



Fresco
374



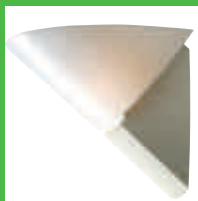
Walled
396



Swift
404



Giotto
376



Cielo
399



Opalite
405



Brio
386



Plani Lux
400



Ritz
406



Opaline
388



Elite
402



Lido
407



Cassini
392



Elan
403



Sylstar 120
411



DF-DFO 2
412



Syldust
413



RD/SD
414



Archos
415



AS
416

Ambient / Decorative

Fresco
Giotto
Brio
Opaline
Cassini
Walled
Cielo
Plani Lux
Elite
Elan
Swift
Opalite
Ritz
Lido
Sylstar
DF-DFO 2
Syldust
RD/SD
Archos
AS

Lumiance

Fresco

- Energy-saving ambient lighting
- Compact fluorescent lamp T16-R or TC-DD included
- Surface mounting, semi-recessed and pendant
- Vandal-resistant
- Integral emergency lighting option available



Fresco 300

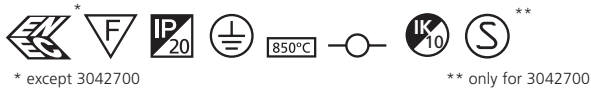


Fresco 400

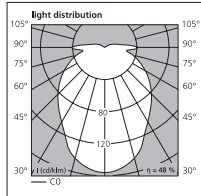
Lumiance **Fresco** 300 & 400

- HOTELS & RESTAURANTS
- LEISURE CENTERS & SHOPPING MALLS
- OFFICES

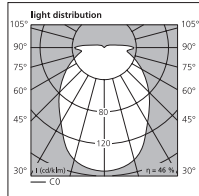
- Surface mounting, semi-recessed and pendant
- Energy-saving compact fluorescent lamp T16-R (4000K) or TC-DD (3500K) included
- Vandal-resistant PC housing
- Soft back lighting with halo effect
- Prestigious design: Red Dot, IF design award



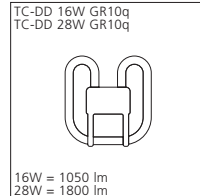
TC-DD 16W



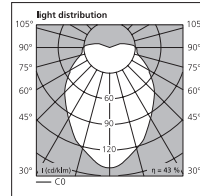
TC-DD 28W



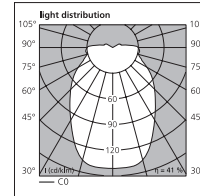
TC-DD



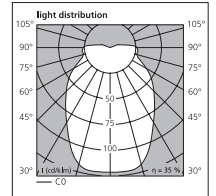
T16-R 22W



T16-R 40W



T16-R 55W



FRESCO 300

Light Source	Colour	Diffusor	Magnetic/Electr. start	High Frequency
TC-DD 16W GR10q	Silver Grey	Opal	3042650	3042660
T16-R 22W 2GX13	Silver Grey	Transparent		3042670

FRESCO 300 ACCESSORIES

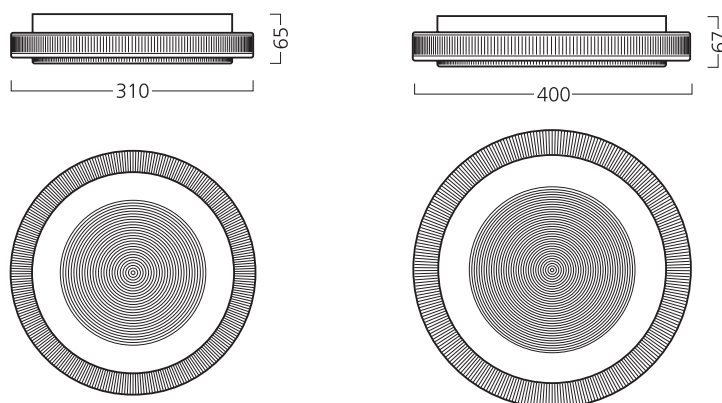
Description	Colour	
Pendant Set	Silver Grey	3042390

FRESCO 400

Light Source	Colour	Diffusor	Magnetic/Electr. start	High Frequency	HF Emergency
TC-DD 28W GR10q	Silver Grey	Opal	3042680	3042690	3042700
T16-R 40W 2GX13	Silver Grey	Transparent		3042710	
T16-R 55W 2GX13	Silver Grey	Transparent		3042720	

FRESCO 400 ACCESSORIES

Description	Colour	
Pendant Set	Silver Grey	3042590



Fresco pendant

Lumiance

Giotto

- Wide range of IP44 recessed and surface mounted energy-saving luminaires
- Providing high uniform illumination
- Ideal for general lighting in public and humid environments thanks to IP44 classification and vandal-resistant construction



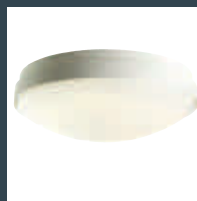
Trend & Trend Deco



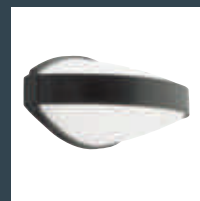
235



305



335



Oval



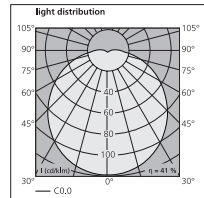
200 Quattro

- Compact circular ceiling or wall mounted fixture
- For energy-saving compact fluorescent lamps: TC-S 2x9W or TC-D 2x18W
- Choice of white or silver deco trim finishes (See page 380)
- Opal or semi-transparent blue body for halo backlight
- Magnetic or HF gear
- Robust, impact resistant



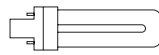
Giotto Trend Deco

TC-S 9W



Lynx-S

TC-S 9W G53



2x9W = 1200 lm

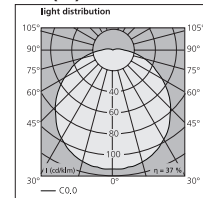
Lynx-SE

TC-SEL 9W 2G7



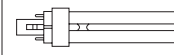
2x9W = 1200 lm

TC-D(EL) 18W



Lynx-D(DE)

TC-D 18W G24d-2
TC-DEL 18W G24q-2



2x18W = 2400 lm

GIOTTO TREND 235

Light Source	Colour	Magnetic	High Frequency
TC-S 2x9W G23	Opal diffusor/white body	3032500	
TC-SEL 2x9W 2G7	Opal diffusor/white body		3032510

GIOTTO TREND 335

Light Source	Colour	Magnetic	High Frequency
TC-D 2x18W G24d-2	Opal diffusor/white body	3032520	
TC-DEL 2x18W G24q-2	Opal diffusor/white body		3032530



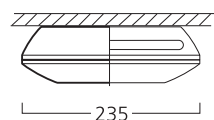
Giotto Trend 335

GIOTTO TREND DECO 235 (SUPPLIED WITH DECO RING)

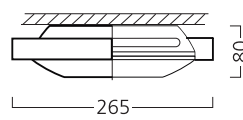
Light Source	Model	Opal/opal white ring	Opal/opal silver ring	Opal/blue silver ring
TC-S 2x9W G23	Magnetic	3032600	3032640	3032700
TC-SEL 2x9W 2G7	High Frequency	3032610	3032650	3032710

GIOTTO TREND DECO 335 (SUPPLIED WITH DECO RING)

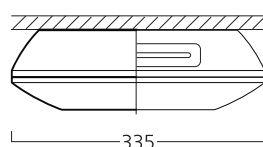
Light Source	Model	Opal/opal white ring	Opal/opal silver ring	Opal/blue silver ring
TC-D 2x18W G24d-2	Magnetic	3032620	3032660	3032720
TC-DEL 2x18W G24q-2	High Frequency	3032630	3032670	3032730



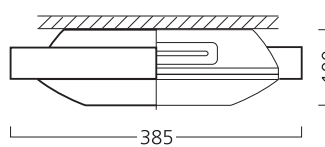
Giotto Trend 235



Giotto Trend Deco 235



Giotto Trend 335



Giotto Trend Deco 335

Lumiance Giotto

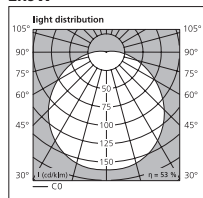
235

- HOTELS & RESTAURANTS
- LEISURE CENTERS & SHOPPING MALLS
- HOSPITALS & NURSING HOMES
- RECEPTION AREAS

- Very low recess depth of 41mm (recessed mounted versions)
- Energy saving
- Vandal-resistant
- Various accessories available



2x9W



Lynx-S

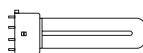
TC 9W G23



2x9W = 1200 lm

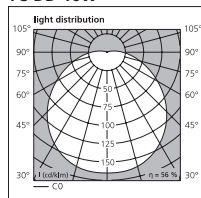
Lynx-SE

TC-SEL 9W 2G7



2x9W = 1200 lm

TC-DD 16W



TC-DD

TC-DD 16W GR10q



16W = 1050 lm

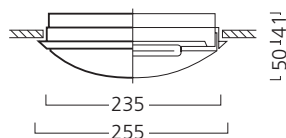
GIOTTO 235 SURFACE

Light Source	Colour	Magnetic	Magnetic/Plus*	Magn. el. starter	High Frequency
TC 2x9W G23	White	3030010	3002650		
TC-SEL 2x9W 2G7	White				3030290
TC-DD 16W GR10q	White				3030050

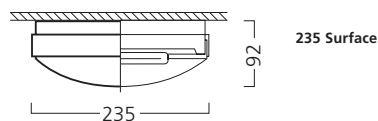
GIOTTO 235 RECESS

Light Source	Colour	Magnetic	Magnetic/Plus*	Magn. el. starter	High Frequency
TC 2x9W G23	White	3030000	3002600		
TC-SEL 2x9W 2G7	White				3030310
TC-DD 16W GR10q	White				3030030

* Plus versions supplied with 830 lamp



235 Recess
minimum recess dimensions:
335x335x41mm



235 Surface

Lumiance Giotto

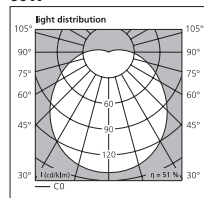
235 A

- HOTELS & RESTAURANTS
- LEISURE CENTERS & SHOPPING MALLS
- HOSPITALS & NURSING HOMES
- RECEPTION AREAS

- Very low recess depth of 41mm (recessed mounted versions)
- Energy saving
- Vandal-resistant
- Various accessories available

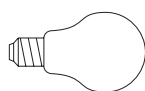


60W



GLS

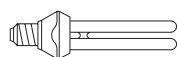
A60 60W E27



60W = 730 lm

Mini-Lynx

TC-DSE 11W E27



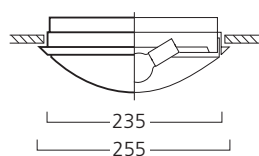
11W = 900 lm

GIOTTO 235 A RECESS

Light Source	Colour	Art. Code
A60 60W E27 / TC-DSE 11W E27	White	3030060

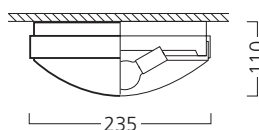
GIOTTO 235 A SURFACE

Light Source	Colour	Art. Code
A60 60W E27 / TC-DSE 11W E27	White	3030070



67 14 11

235A Recess
minimum recess dimensions:
335x335x41mm



235A Surface

- HOTELS & RESTAURANTS
- LEISURE CENTERS & SHOPPING MALLS
- HOSPITALS & NURSING HOMES
- RECEPTION AREAS



Grid



Deco trim



Eyelid

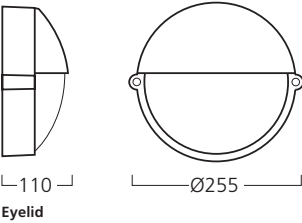


Trend ring

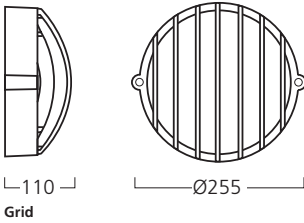
GIOTTO 235 SURFACE ACCESSORIES

Description	White	Brushed Alum. Silver
Trend Ring	3005800	
Deco Trim	3005100	3005110
Eyelid accessory*	3005310	
Grid accessory*	3005330	

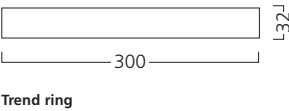
* For Giotto 235 (not for Giotto 235 A); increases vandal resistance



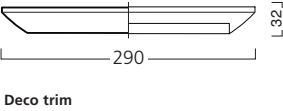
Eyelid



Grid



Trend ring



Deco trim

Lumiance Giotto

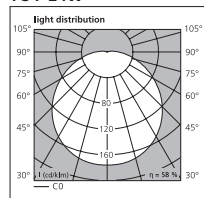
305

- HOTELS & RESTAURANTS
- LEISURE CENTERS & SHOPPING MALLS
- HOSPITALS & NURSING HOMES
- RECEPTION AREAS

- Very low recess depth of 41mm (recessed mounted versions)
- Energy saving
- Vandal-resistant
- IP44 classification
- Accessories available

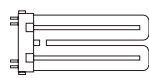


TC-F 24W



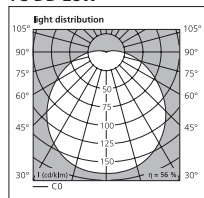
Lynx-F

TC-F 24W 2G10



24W = 1700 lm

TC-DD 28W



TC-DD

TC-DD 28W GR10q



28W = 2050 lm

GIOTTO 305 RECESS

Light Source	Colour	Magnetic el. starter
TC-DD 28W GR10q	White	3030140

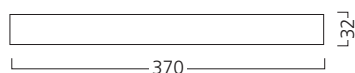
GIOTTO 305 SURFACE

Light Source	Colour	Magnetic	Magnetic el. starter	Magnetic plus*	High Frequency
TC-F 24W 2G10	White	3030110		3002670	3030740
TC-DD 28W GR10q	White		3030150		3030170

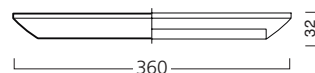
GIOTTO 305 SURFACE ACCESSORIES

Description	White	Brushed alum.	Matt silver
Deco trim	3005130		3005140
Trend ring		3005810	

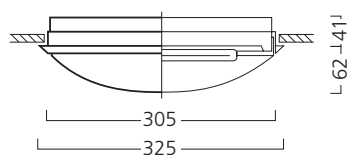
* Plus version supplied with (830) lamp



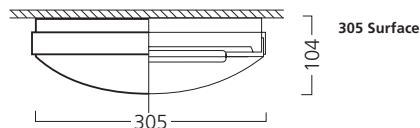
Trendring



Decotrim



305 Recess
minimum recess dimensions:
405x405x41mm



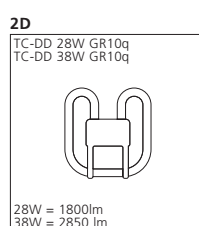
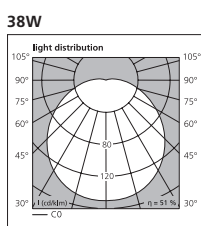
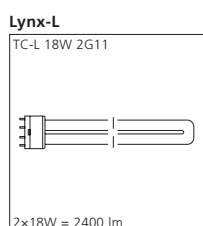
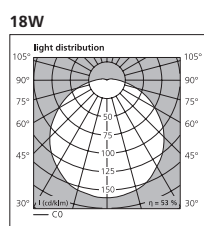
305 Surface

Lumiance Giotto

335

- HOTELS & RESTAURANTS
- LEISURE CENTERS & SHOPPING MALLS
- HOSPITALS & NURSING HOMES
- RECEPTION AREAS

- Very low recess depth of 41mm (recessed mounted versions)
- Energy saving
- Vandal-resistant
- Different accessories available



Deco trim



Trend ring

GIOTTO 335 RECESS

Light Source	Colour	Mag. el. starter	Magnetic Plus*	Magnetic	High Freq.	HF Plus*	Emergency el. Starter
TC-L 2x18W 2G11	White		3002630	3030320	3030770	3002640	
TC-DD 38W GR10q	White	3030340			3030780		3030380

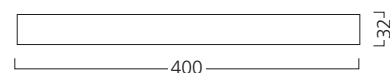
GIOTTO 335 SURFACE

Light Source	Colour	Mag. el. starter	Magnetic Plus*	Magnetic	High Freq.	HF Emergency
TC-L 2x18W 2G11	White		3002690	3030330	3030810	
TC-DD 28W GR10q	White	3030570				3030560
TC-DD 38W GR10q	White	3030350			3030790	

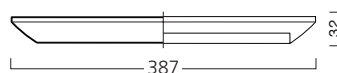
GIOTTO 335 SURFACE ACCESSORIES

Description	White	Brushed aluminium	Matt Silver
Deco Trim	3005160		3005170
Trend Ring		3005820	

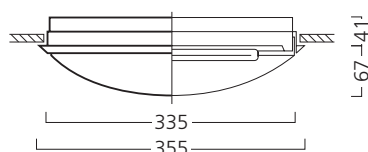
* Plus versions supplied with (830) lamp



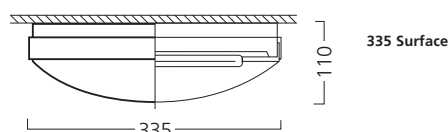
Trending



Decotrim



335 Recess
minimum recess dimensions:
435x435x41mm



335 Surface

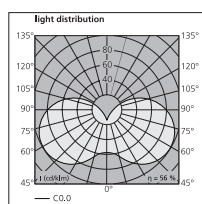


Lumiance Giotto

Oval

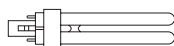
- HOTELS & RESTAURANTS
- LEISURE CENTERS & SHOPPING MALLS
- HOSPITALS & NURSING HOMES
- RECEPTION AREAS

- Decorative design
- Horizontal and vertical mounting
- Energy saving
- Available with photocell
- With dawn-dusk accessory



Lynx-D

TC-D 10W G24d-1
TC-D 13W G24d-1



10W = 600 lm
13W = 900 lm

GIOTTO OVAL

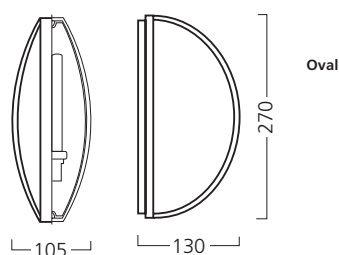
Light Source	Colour	Magn. el. Starter
TC-D 10/13W G24d-1	White	3031000
TC-D 10/13W G24d-1	Black	3031020

GIOTTO OVAL DECO

Light Source	Colour	Magn. el. Starter	+Photocell
TC-D 10/13W G24d-1	White	3031080	
TC-D 10/13W G24d-1	Black	3031100	3031180



Giotto oval deco

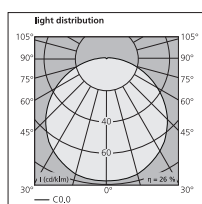


Lumiance Giotto

200 Quattro

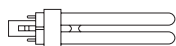
- HOTELS & RESTAURANTS
- LEISURE CENTERS & SHOPPING MALLS
- HOSPITALS & NURSING HOMES
- RECEPTION AREAS

- Surface mounted
- Energy saving
- Vandal-resistant



Lynx-D

TC-D 10W G24d-1
TC-D 13W G24d-1

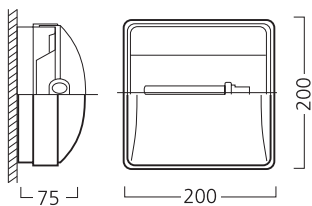


10W = 600 lm
13W = 900 lm

GIOTTO 200 QUATTRO

Light Source	Model	White
TC-D 10/13W G24d-1	Magnetic electronic starter	3030200

Quattro



Concord

Brio

- Satin glass effect diffuser for high LOR and excellent diffusion
- Ceiling or wall mounted
- Integral emergency options-suitable for use on defined escape routes
- White, silver and blue coloured versions
- Blue version features coloured halo backlight
- Tamper resistant locking feature
- IP44 for wet areas
- Complimentary IP65 exterior and vandal-resistant versions see page 493



Concord Brio

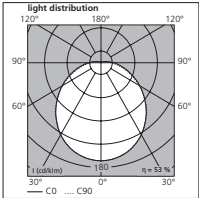
IP44

- CORRIDORS
- BATHROOMS (USE IP44 UNITS)
- BEDROOM ACCOMMODATION
- STAIRWELLS

- Crisp white, silver and translucent blue versions
- Blue version creates a coloured halo effect
- Tamper resistant locking features

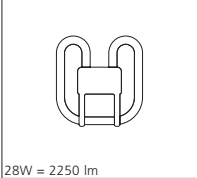


28W



2D

TC-DD 28W GR10q



28W = 2250 lm

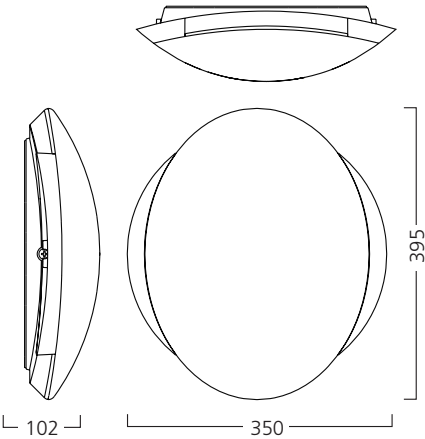


STANDARD

Light Source		White	Silver
TC-DD 28W GR10q	Emergency	4057627	4057630
TC-DD 28W GR10q	Emergency Integral	4057629	4057632

COLOURED HALO

Light Source		Blue
TC-DD 28W GR10q	Emergency	4060726
TC-DD 28W GR10q	Emergency Integral	4060728



Concord

Opaline

- Three trim finishes: Chrome, brushed aluminium and white
- Opal diffuser providing even diffusion, eliminating glare spot
- Ceiling or wall mounted
- Integral emergency options - suitable for use on defined escape routes
- High-output 2x36W TC-F option



Opaline



Concord Opaline

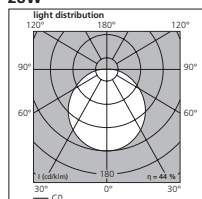
350/450mm

- CORRIDORS
- BATHROOMS (USE IP44 UNITS)
- BEDROOM ACCOMMODATION
- STAIRWELLS

- Ceiling or wall mounted
- Optional prismatic diffuser
- IP44 kit for bathrooms and wet areas
- Nightlight version (450mm)



28W



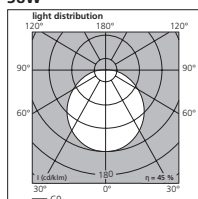
2D

TC-DD 28W GR10q

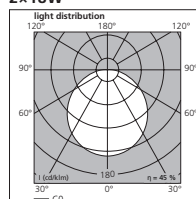


28W = 2250 lm

38W



2x18W



2D

TC-DD 38W GR10q



38W = 3000 lm

OPALINE 350MM

Light Source	Emergency	Gear	Chrome	White	Bru. alu.
TC-DD 28W GR10q		HF	4037972	4037958	4062818
TC-DD 28W GR10q	Integral	HF	4056655	4056686	4062819

ACCESSORIES

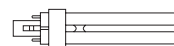
Semi-recessing Kit*	4037857
IP44 Kit**	4056592
Prismatic Diffuser	4033350

* Not suitable for 28W TC-DD emergency versions

** Upgrades standard Opaline to IP44

Lynx-DE

TC-DEL 18W G24q-2



18W = 1200 lm

Lynx-S

TC-S 5W G23
TC-S 7W G23
TC-S 9W G23



5W = 250 lm
7W = 400 lm
9W = 600 lm

OPALINE 450MM

Light Source	Emergency	Gear	Chrome	White	Bru. alu.
TC-DD 38W GR10q		HF	4038139	4038141	4062825
TC-DD 38W GR10q	Integral	HF	4059895	4059903	4062826
TC-DEL 2x18W G24q-2		HF	4038145	4038147	4062832
TC-DEL 2x18W G24q-2	Integral	HF	4059869	4038418	4062834

NIGHTLIGHT VERSION

TC-D 2x18W + TC-S 5/7/9W	SS		4037422	4062835
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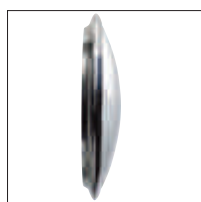
ACCESSORIES

Semi-recessing Kit	4037857
IP44 Kit*	4056720
Prismatic Diffuser	4064489

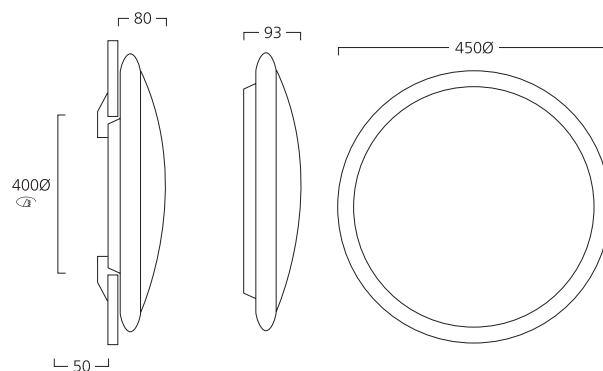
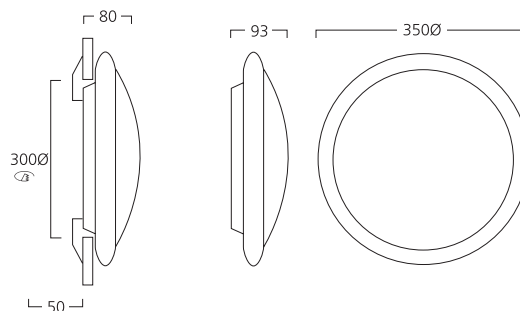
* Upgrades standard Opaline to IP44



Prismatic Diffuser for improved DLOR



Opaline Chrome



50mm required for cable access if using semi-recessing kit

Concord Opaline

550mm

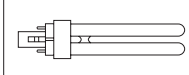
- CORRIDORS
- BATHROOMS (USE IP44 UNITS)
- BEDROOM ACCOMMODATION
- STAIRWELLS

- New high output 2x36W TCF versions
- Ceiling or wall mounted



Lynx-DE

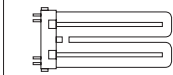
TC-DEL 26W G24q-3



26W = 1800 lm

Lynx-F

TC-F 36W 2G10



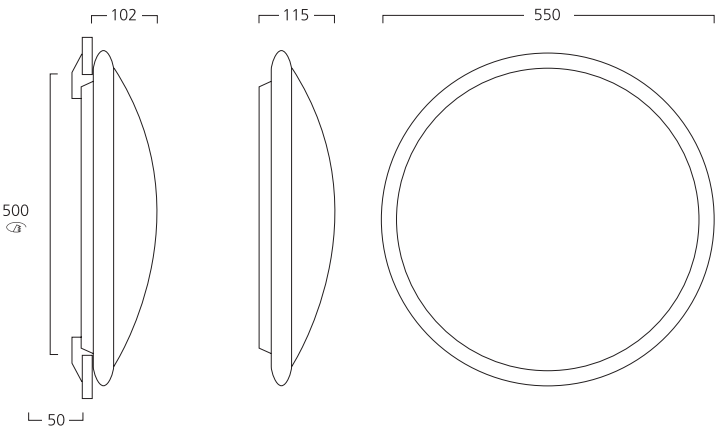
36W = 2800 lm

OPALINE 550MM

Light Source	Emergency	Gear	White	Brushed Aluminium
TC-DEL 2x26W G24q-3		HF	4038205	4062848
TC-DEL 2x26W G24q-3	Integral	HF	4038422	4062850
TC-F 2x36W 2G10		HF	4065661	4065662
TC-F 2x36W 2G10	Integral	HF	4065663	4065664

ACCESSORIES

Description	
Semi-recessing Kit	4037858



50mm required for cable access if using semi-recessing kit

Concord Antiligature Opaline

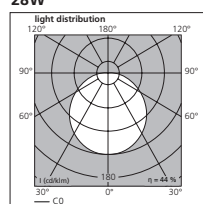
390/490/590mm

- CORRIDORS
- BATHROOMS (USE IP44 UNITS)
- BEDROOM ACCOMMODATION
- STAIRWELLS

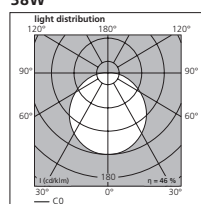
- Diffuser trim designed to reduce the opportunity for use as a ligature point
- Tamper resistant
- Opal diffuser providing even diffusion eliminating glare spot
- Ceiling or wall mounted
- HF Control gear and 1-10V analogue dimmable options as standard
- Nightlight options



28W



38W



2D

TC-DD 28W GR10q
TC-DD 38W GR10q



28W = 2250 lm
38W = 3000 lm

Lynx-DE

TC-DEL 18W G24q-2
TC-DEL 26W G24q-3



18W = 1200 lm
26W = 1800 lm

ANTILIGATURE OPALINE 390MM

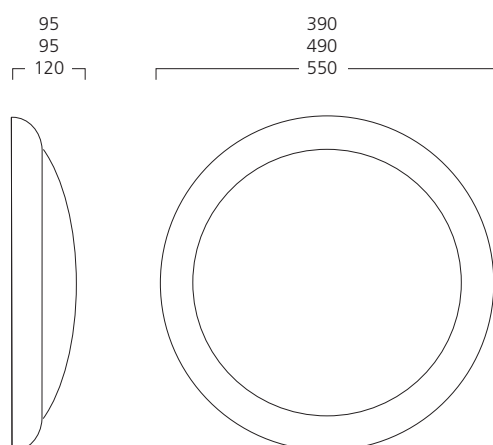
Light Source	Emergency	HF
28W TC-DD GR10q	4065602	4065601

ANTILIGATURE OPALINE 490MM

Light Source	Emergency	HF	Dimmable	Nightlight
38W TC-DD GR10q	4065604	4065603		
2x18W TC-DEL G24q-2	4065606	4065605	4065607	4065608

ANTILIGATURE OPALINE 590MM

Light Source	Emergency	HF	Dimmable	Nightlight
2x26W TC-DEL G24q-3	4065610	4065609	4065611	4065612



Concord Cassini

- Two contemporary styles – Planar and Radius
- Satin glass effect diffuser for high LOR and excellent diffusion
- Ceiling or wall mounted
- Integral emergency options – suitable for use on defined escape routes
- Halo backlight
- Tamper resistant locking feature
- IP65 for wet areas



Cassini

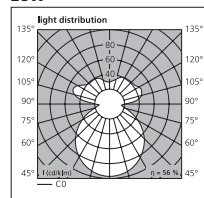


- CORRIDORS
- STAIRWELLS
- UNDER CANOPY AMBIENT LIGHTING
- RECEPTION AREAS

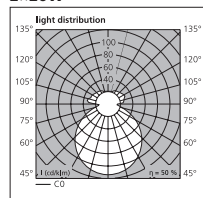
- Halo backlight
- IP65 fitting resistant to dust and water jet ingress
- Tamper resistant locking feature
- Ceiling or wall mounted
- Low profile fitting
- Choice of white and brushed aluminium trim finishes



28W



2x26W



2D

TC-DD 28W GR10q
TC-DD 38W GR10q



28W = 2250 lm
38W = 3000 lm

Lynx-DE

TC-DEL 18W G24q-2
TC-DEL 26W G24q-3



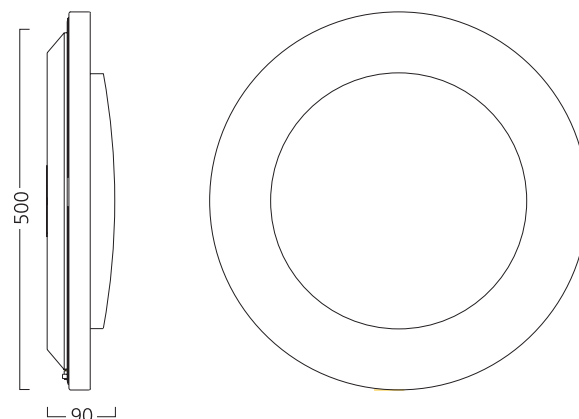
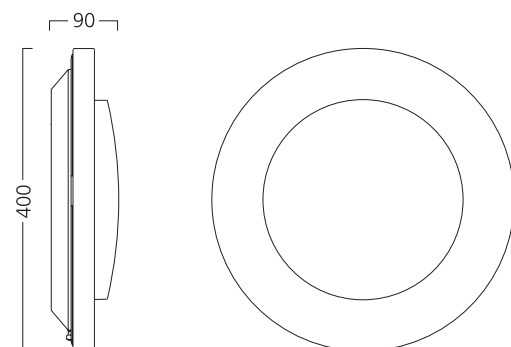
18W = 1200 lm
26W = 1800 lm

CASSINI PLANAR 400MM

Light Source	Emergency	White	Brushed Aluminium
TC-DD 28W		4065211	4065212
TC-DD 28W	Integral	4065213	4065214
TC-DEL 2x18W		4065219	4065220
TC-DEL 2x18W	Integral	4065221	4065222

CASSINI PLANAR 500MM

Light Source	Emergency	White	Brushed Aluminium
TC-DD HF 38W		4065269	4065270
TC-DD HF 38W	Integral	4065271	4065272
TC-DEL 2x26W		4065277	4065278
TC-DEL 2x26W	Integral	4065279	4065280



Concord Cassini

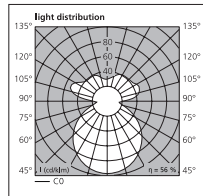
Radius

- CORRIDORS
- STAIRWELLS
- UNDER CANOPY AMBIENT LIGHTING
- RECEPTION AREAS

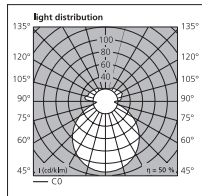
- Halo backlight
- IP65 fitting resistant to dust and water jet ingress
- Tamper resistant locking feature
- Ceiling or wall mounted
- Low profile fitting
- Choice of white, brushed aluminium and chrome trim finishes



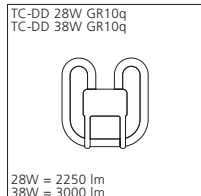
28W



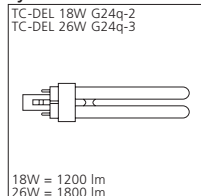
2x26W



2D



Lynx-DE

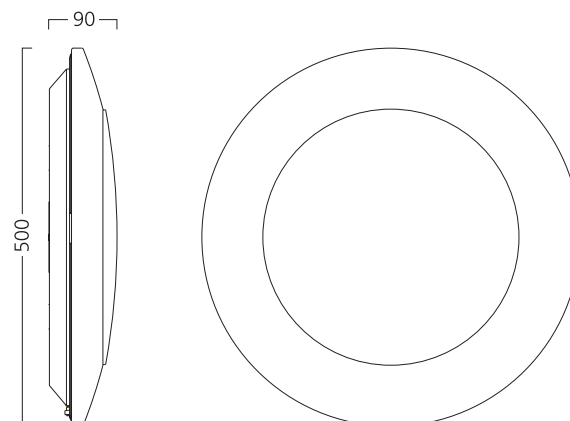
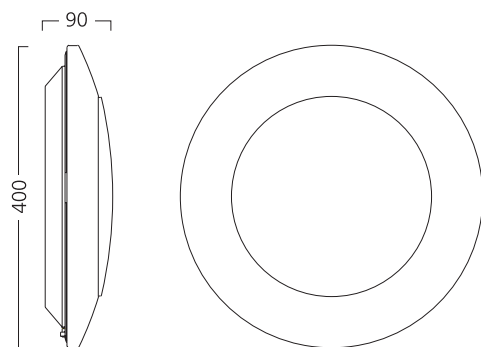


CASSINI RADIUS 400MM

Light Source	Emergency	Chrome	White	Brushed Aluminium
TC-DD 28W GR10q		4065621	4065215	4065216
TC-DD 28W GR10q	Integral	4065622	4065217	4065218
TC-DEL 2x18W G24q-2		4065623	4065223	4065224
TC-DEL 2x18W G24q-2	Integral	4065624	4065225	4065226

CASSINI RADIUS 500MM

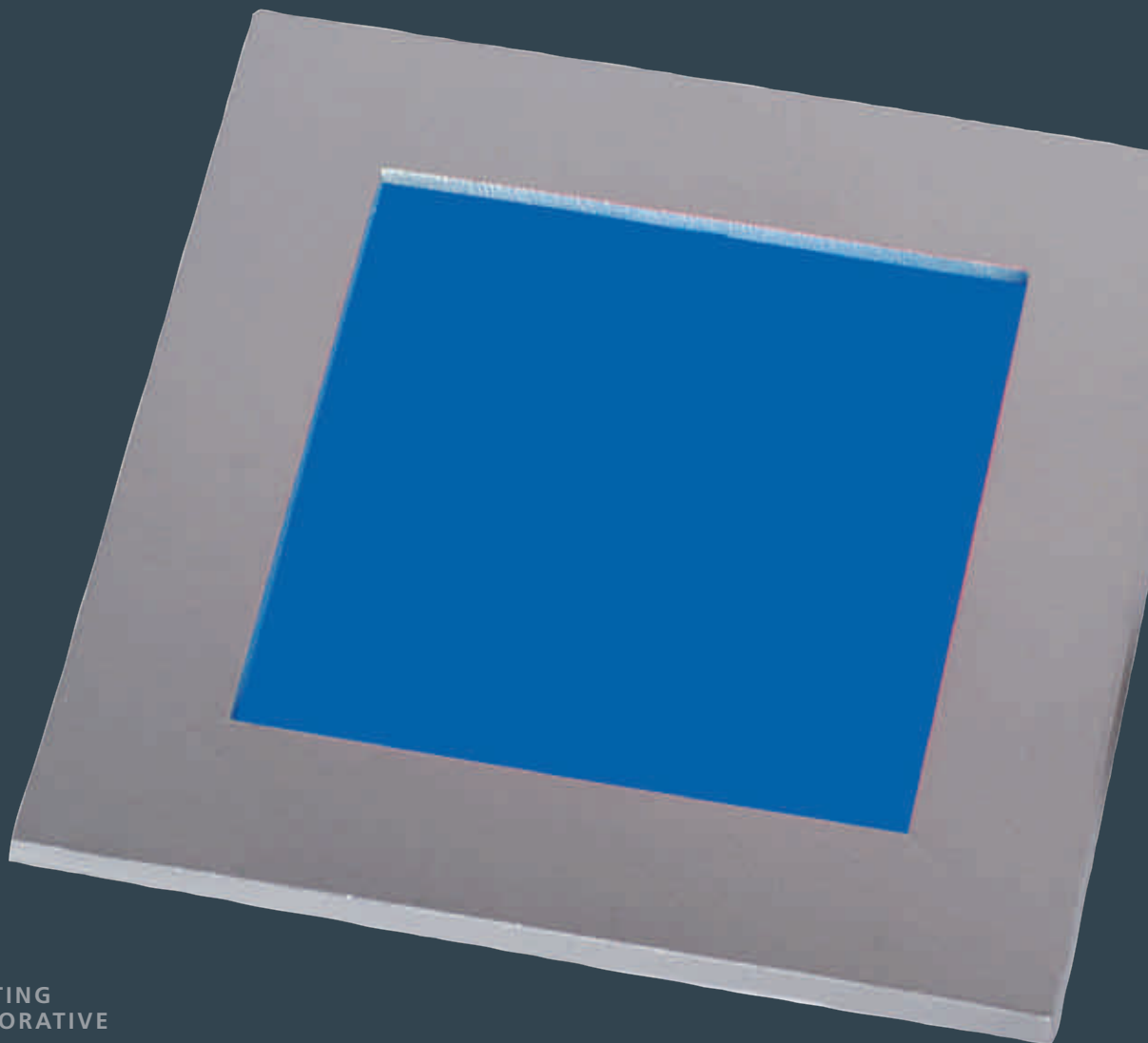
Light Source	Emergency	Chrome	White	Brushed Aluminium
TC-DD HF 38W GR10q		4065625	4065273	4065274
TC-DD HF 38W GR10q	Integral	4065626	4065275	4065276
TC-DEL 2x26W G24q-3		4065627	4065281	4065282
TC-DEL 2x26W G24q-3	Integral	4065628	4065283	4065284



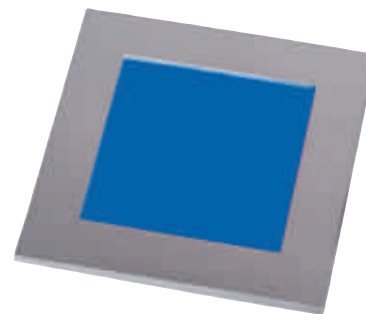


Lumiance Walled

- Decorative light fixtures for recessing into walls and ceilings, offering two LED colours behind an opal glass diffuser
- Walled is made of stylish silver-grey sheet metal with a die-cast aluminium front ring and is ideal for decorative and low level orientation lighting in hotel bars, restaurants, hallways or shops



- Including light emitting diodes (LED)
- Available with 2 LED colours: cool white (4x 0.6W), and blue (4x 0.8W)
- Not dimmable
- Accessories available for mounting in brick or concrete walls



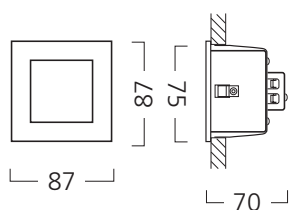
WALLED

Description	Colour	Cool White	Blue
LED Square/matt glass	Matt Silver	3063610	3063620

ACCESSORIES

Description	Square
Plaster kit walled	3007900*
Recess box walled	3007920*

- * mounting in voids: no accessories needed
 recessed in brick walls: use plaster kit
 recessed in concrete walls: use plaster kit and recess box



Lumiance

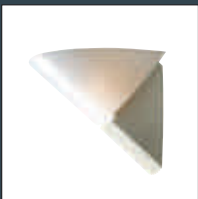
Cielo / Plani Lux

Cielo

- Indirect lighting fixture for decorative use on walls
- Ideal for small and medium applications

Plani Lux

- IP44 wall light with semi-transparent diffuser
- Ideal for humid areas such as bathrooms and kitchens



Cielo 13/75



Cielo 300



Plani Lux

Lumiance Cielo

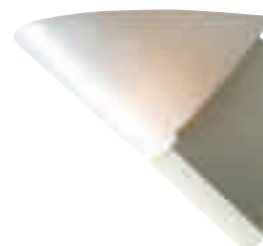
13/75/300

- HOTEL ROOMS
- HOTEL LOBBIES AND CORRIDORS
- RECEPTION AREAS
- RESTAURANTS

- Diffuse light
- Easy to install
- Floating glass accessory
- Decorative fixture
- Indirect lighting for closed versions

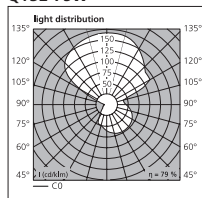


* Cielo 13/75 ** Cielo 300



Cielo 13/75

QT32 75W

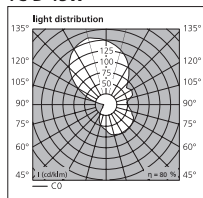


QT32 75W E27
A60 75W E27

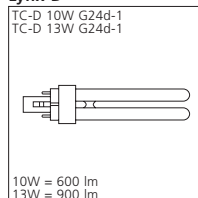


QT32 = 1125 lm
A60 = 960 lm

TC-D 13W

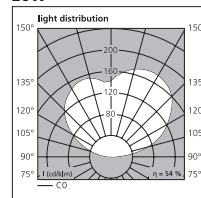


Lynx-D

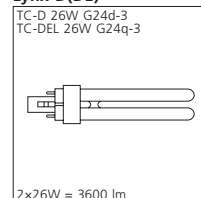


10W = 600 lm
13W = 900 lm

26W



Lynx-D(DE)



2x26W = 3600 lm

CIELO 13/75 (DIFFUSO)

Light Source	Model	White
TC-D 10/13W G24d-1	13 Opal Polycarbonate	3026500
QT32/QT46 75W E27	75 Opal Polycarbonate	3026550

ACCESSORIES

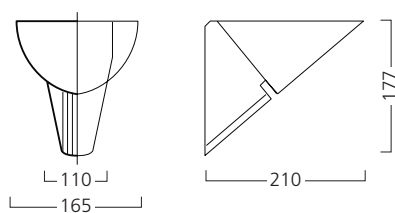
Description	White
Decorative glass	3005650

CIELO 300

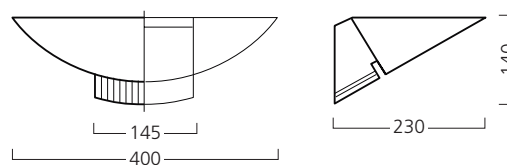
Light Source	Model	White
TC-D 2x26W G24d3	Magnetic	3026800
TC-DEL 2x26W G24q3	High Frequency	3026810



Cielo 300



Cielo 13/75



Cielo 300

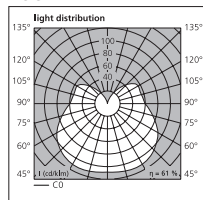
Lumiance **Plani Lux**

- PARTICULARLY SUITABLE FOR AREAS WHERE SMALL ACCENTS ARE DESIRABLE

- Good light efficiency and energy saving
- Modern and compact design
- Integrated electronic ballast
- Long lamp life

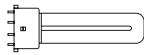


TC-SEL 11W



Lynx-SE

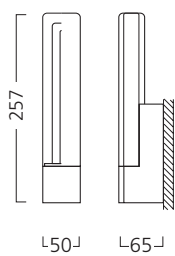
TC-SEL 11W 2G7



11W = 900 lm

PLANI LUX

Light Source	White	Brushed Alum.	Chrome
TC-SEL 11W 2G7 lux	3025280	3025260	3025290





Lumiance Elite

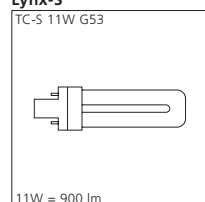
Mirror and Shaverlight

- BATHROOMS
- SHOWER ROOMS
- DRESSING ROOMS
- BEDROOMS

- Slim Profile Surface or Flush mounting option
- Vertical or Horizontal mounting
- Suitable for Bathroom use as required by I.E.E wiring regulations (Except where water jets are used)
- 11W Lynx-S Sylvania energy-saving lamp supplied
- Separate switching for lamp and shaver socket



Lynx-S



ELITE SHAVERLIGHT WITH PUSH PLATE & SHAVER SOCKET

Light Source	White	Chrome	Gold
TC-S 11W G53	2425707	2425708	2425709

ELITE SHAVERLIGHT WITH PULL CORD AND SHAVER SOCKET

Light Source	White	Chrome	Gold
TC-S 11W G53	2425713	2425714	2425715

ELITE MIRROR LIGHT WITH PUSH PLATE

Light Source	White	Chrome	Gold
TC-S 11W G53	2425716	2425717	2425718

ELITE MIRROR LIGHT WITH PULL CORD

Light Source	White	Chrome	Gold
TC-S 11W G53	2425719	2425720	2425721

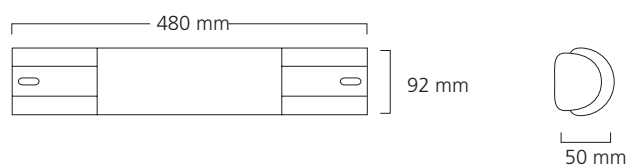
SEMI-RECESSED KIT

Mounting Kit	2425722
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Description

Slim profile Mirror and Shaver light for horizontal or vertical mounting. White, Gold and polished Chrome trims, concealed dual voltage shaver socket and separate switch for lamp. Push switch or Pull cord options available. Can also be flush mounted with semi-recessing kit. Supplied with Sylvania 11W Lynx-S energy-saving lamp.



Lumiance Elan

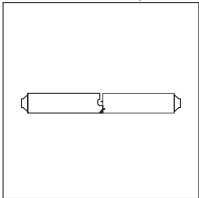
Shaverlight

- BATHROOMS
- SHOWER ROOMS
- DRESSING ROOMS
- BEDROOMS

- For horizontal surface mounting
- Shaver socket may be positioned to left or right
- Protected shuttered dual voltage shaver socket
- Isolated lampholders for safe re-lamping
- Bathroom use as required by I.E.E. wiring regulations (except where water jets are used)



Incandescent Strip

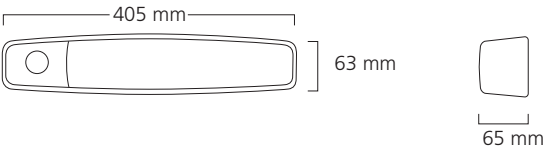


ELAN SHAVERLIGHT

Light Source	White Décor	Chrome Décor	Gold Décor
60W White	2425740	2425741	2425742



Description
 Surface mounted protected dual voltage shaverlight with pull cord switch. White finish with opal diffuser isolating lampholders for safe re-lamping. Supplied with Sylvania 60W striplight. Choice of white, chrome or gold décor button.



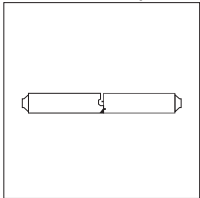
Lumiance **Swift**
Shaverlight

- BATHROOMS
- SHOWER ROOMS
- DRESSING ROOMS
- BEDROOMS

- For horizontal surface mounting.
- Single or Dual Voltage shaver socket
- Bathroom use as required by I.E.E wiring regulations (except where water jets are used)
- Supplied complete with Sylvania 60W striplight



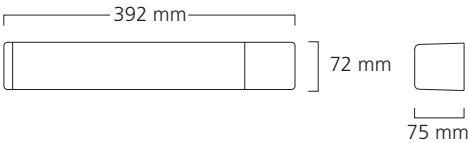
Incandescent Strip



Description
For horizontal surface mounting with pull cord switch. White finish with opal diffuser, supplied with 60W Sylvania Striplight. Single or dual voltage shaver socket and isolating transformers.

SWIFT SHAVERLIGHT

Description	Art.code
White Single voltage	2467440
White Dual voltage	2425733



Lumiance Opalite

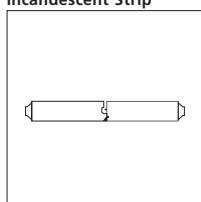
Mirror and Shaverlight

- BATHROOMS
- SHOWER ROOMS
- DRESSING ROOMS
- BEDROOMS

- For horizontal mounting
- Isolated lampholders for safe re-lamping
- Un-switched, push switch or pull cord options
- Bathroom use as required by I.E.E wiring regulations
- Supplied with 60W sylvania striplight



Incandescent Strip



Description
Surface mounted horizontal un-obtrusive mirror lighting. White finished with isolating opal diffuser. Suitable for Zone 3 bathroom applications. Supplied with Sylvania 60W striplight.

OPALITE MIRROR AND SHAVERLIGHT

Description	Art.code
White un-switched 60W	2465760
White with Pull Cord 60W	2465780
White with Push Switch 60W	2465770
White Shaverlight With Pull Cord 60W	2465790



Lumiance Ritz

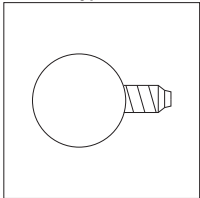
Mirrorlight

- BATHROOMS
- SHOWER ROOMS
- DRESSING ROOMS
- BEDROOMS

- Classic design for bedrooms and dressing rooms
- Vertical or horizontal mounting
- Bathroom use, as required by I.E.E. wiring regulations (except where water jets are used)
- 4x25W SES Sylvania round lamps supplied
- Can be dimmed



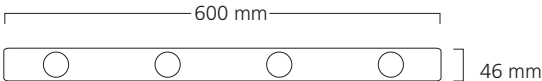
D45 SES Type



Description
 A classic style mirror light designed to enhance the light to the facial area for use in dressing rooms and bedrooms. Available in chrome, white, brass finish and supplied with Sylvania SES 25W lamps.

RITZ MIRRORLIGHT

Light Source	White	Brass	Chrome
SES 4x25W E14	2465800	2465810	2425934



Lumiance Lido

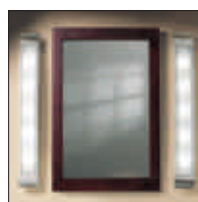
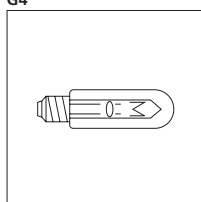
Curved Glass Mirrorlight

- BATHROOMS
- SHOWER ROOMS
- DRESSING ROOMS
- BEDROOMS

- Toughened frosted glass
- Polished chrome trim
- Surface mounted vertically or horizontally
- Suitable for bathrooms zone 2 as required by I.E.E. wiring regulations (except where water jets are used)
- Supplied complete with 5x10W G4 Sylvania halogen capsule lamps



G4



Description

Frosted glass decorative mirror light with 5 x 10w low voltage lamps creates sparkle and interest to bathrooms or dressing rooms. Can be vertically or horizontally surface mounted. Remote Switching. IP44 rated can be used in bathrooms.

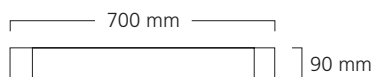
CURVED GLASS

Light Source

12V 5x10W G4

Lido Frosted Glass

2425975



Lumiance Lido

Crescent Mirrorlight

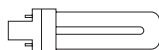
- BATHROOMS
- SHOWER ROOMS
- DRESSING ROOMS
- BEDROOMS

- Polished chrome housing
- Frosted toughened glass panel
- Horizontal surface mounting
- Zone 2 for Bathrooms as required by I.E.E. wiring regulations (Except where water jets are used)
- 2x9W Lynx-S Sylvania energy-saving lamps supplied



Lynx-S

TC-S 9W G53



9W = 600 lm



Description

Polished chrome crescent shaped mirror light with frosted toughened glass. Surface mounting downward lighting for Bathrooms IP44, 2 x 9W Sylvania Lynx-S energy saving lamps supplied. Remote switching.

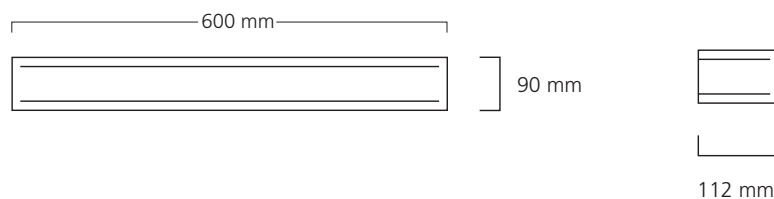
CRESCENT MIRRORLIGHT

Light Source

TC-S 2x9W G53

Surface mounted

2425977



Lumiance Lido

Surface Mounted & Semi-recessed

- BATHROOMS
- SHOWER ROOMS
- DRESSING ROOMS
- BEDROOMS

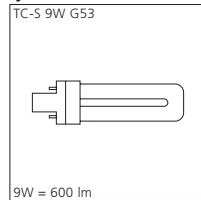
- Polished chrome facia
- Frosted toughened glass front panel
- Flush mounting, vertically or horizontally
- Zone 2 or 3 for bathrooms as required by I.E.E. wiring regulations (except where water jets are used)
- 2x9W Sylvania Lynx-S energy-saving lamps supplied



Surface Mounted

Semi-Recessed

Lynx-S



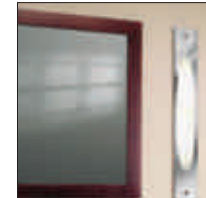
SURFACE MOUNTED

Light Source	Surface mounted
2x9W	2426038

SEMI-RECESSED

Light Source	Flush mounted
2x9W	2425976

Semi-Recessed



Description

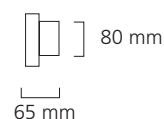
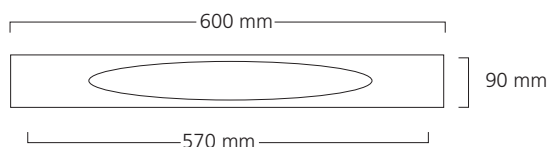
Polished chrome flush mounted facia with frosted elliptical toughened glass front panel. Can be mounted vertically or horizontally in bathrooms or dressing rooms. 2 x 9W Sylvania Lynx-S energy-saving lamps supplied IP44. Remote Switching.

Surface Mounted



Description

Polished chrome surface mounted facia with Frosted Elliptical toughened glass Front panel. Can be mounted Vertically or Horizontally in Bathrooms or Dressing rooms. 2 x 9W Sylvania Lynx-S energy-saving lamps supplied IP44. Remote Switching.



- BATHROOMS
- SHOWER ROOMS
- DRESSING ROOMS
- BEDROOMS

- Satin chrome facia and base plate
- Toughened etched glass
- Surface mounting vertical or horizontal
- Zone 2 for bathrooms as required by I.E.E. wiring regulations (except where water jets are used)
- Supplied with Sylvania Hi-Pin 40W G9 mains voltage lamps



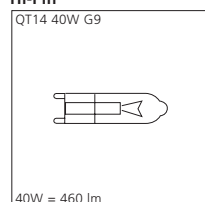
Post Mirrorlight



Mirrorlight



Hi-Pin



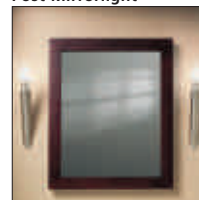
POST MIRRORLIGHT

Light Source	Satin Chrome
QT14 40W G9	2425980

MIRRORLIGHT

Light Source	G9 Satin Chrome
QT14 1x40W G9	2425978
QT14 2x40W G9	2425979

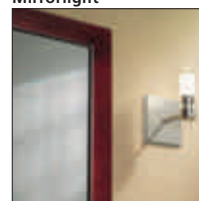
Post Mirrorlight



Description

Satin chrome steel finish wall mounted mirror light with etched glass. Suitable for bathroom use, IP44, Zone 2 or 3. Sylvania 40W Hi-Pin G9 halogen capsule lamp supplied. Remote Switching.

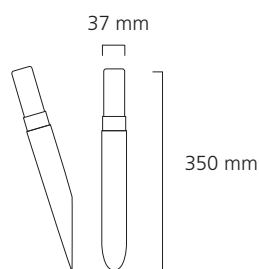
Mirrorlight



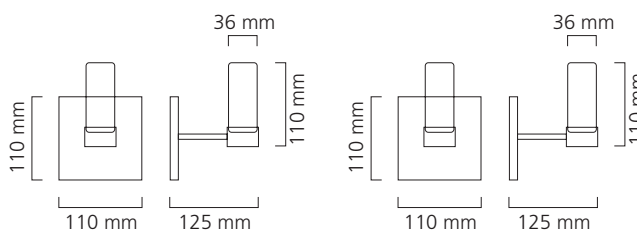
Description

Polished chrome surface mounted facia with Frosted Elliptical toughened glass Front panel. Can be mounted Vertically or Horizontally in Bathrooms or Dressing rooms. 2 x 9W Sylvania Lynx-S energy-saving lamps supplied IP44, Zone 2 or 3. Remote Switching.

Post Mirrorlight



Mirrorlight

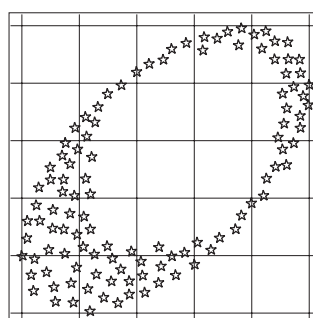
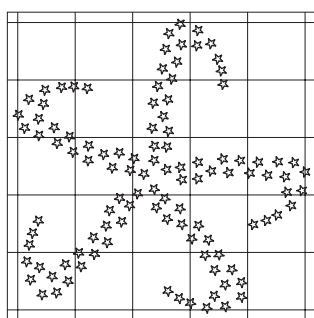
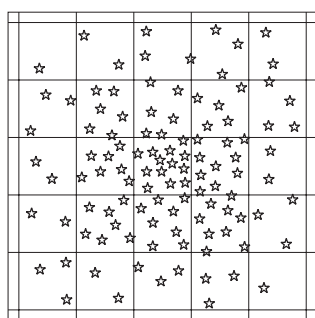


Sylvania Sylstar 120

120 C

- RECEPTION AREAS, GALLERIES
- DEMONSTRATION ROOMS FOR CREATING LOGOS AND PATTERNS

- Spectacular lighting effects
- White or coloured lights (120C for colours)
- Delivered complete
- The ends of the fibre optics are cut and smoothed and equipped with a metal end for easy installation into white plastic caps



SYLSTAR 120/120C

Description	Art. Code
Sylstar 120	9057101
Sylstar 120C	9057100

A 3.8 m diameter could be done in a circular installation.

Product description

120 optic fibres Ø1 mm for decorative lighting delivered with their own generator.

- 40 optic fibres 1200 mm long.
 - 40 optic fibres 1600 mm long.
 - 40 optic fibres 2000 mm long.
- 120 clips (external diameter 5.5 mm) and collars for an easy installation.
Tungsten halogen lamp 35W 12 Volts included.

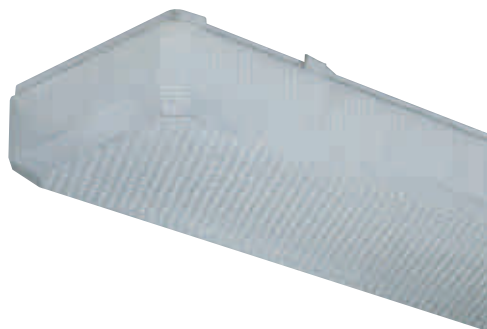
Sylstar 120C is equipped with a rotary coloured disc (2.5t/min).

Sylvania DF-DFO 2

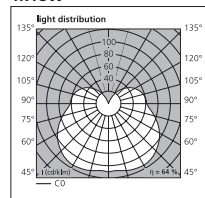
DF-DFP 2

- TERTIARY, INDUSTRIAL OR COMMERCIAL SECTOR. OFFICES, BUILDINGS CIRCULATIONS, HOSPITAL FACILITIES, COMMERCIAL ESTABLISHMENTS, DOMESTIC LIGHTING.

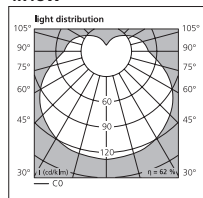
- Wide light distribution
- Decorative aspect
- Easy installation and maintenance



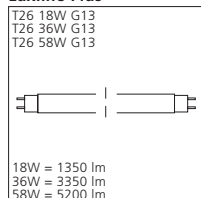
1x18W



4x18W



Luxline Plus



MAGNETIC BALLASTS

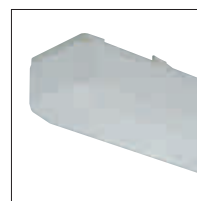
Light Source	NC	PC
T26 1x18W G13	0043097	
T26 1x36W G13	0043098	0045079
T26 1x58W G13	0043099	0045080
T26 2x18W G13	0043269	
T26 2x36W G13	0043270	0045081
T26 2x58W G13	0043271	0045082
T26 4x18W G13		0045083

DIFFUSERS

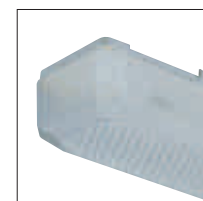
Light Source	Opal (DFO 2)	Prismatic (DFP 2)
T26 1x18W G13	0043081	0043091
T26 1x36W G13	0043082	0043092
T26 1x58W G13	0043083	0043093
T26 2x18W G13	0043084	0043094
T26 2x36W G13	0043085	0043095
T26 2x58W G13	0043086	0043096
T26 4x18W G13	0043087	

1-10V, A2 Ballasts & Emergency versions available on request.

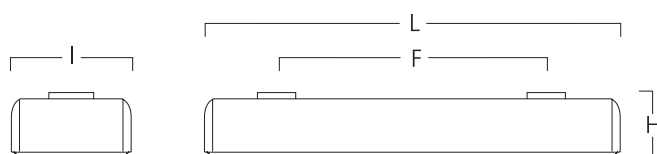
Please ask your local representative.



Gear tray description
White coated flat steel sheet for ø26 mm fluorescent lamps. Two cable entries allowing central or extremity connections. Fixation of the diffuser thanks to metallic rotary lockers.



Diffusers description
Trapezoidal opal (DFO) or transparent prismatic (DFP) in PMMA. It guarantee stable corners, UV resistance as well as an attractive design.

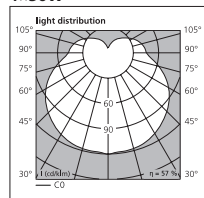


Lamp	DIMENSIONS (MM)					Heaviest weight (kg)
	L	F	H	F		
1x18	659	106	84	460	1.8	
1x36	1270	106	84	900	2.6	
1x58	1570	106	84	1200	3.8	
2x18	665	190	87	445	3.7	
2x36	1270	190	87	900	4.6	
2x58	1570	190	87	1200	6.6	
4x18	665	665	87	316	4.0	

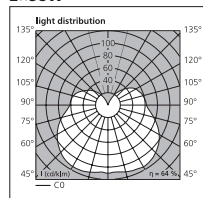
- Decorative aspect
- Easy installation and maintenance



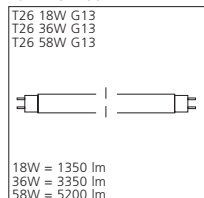
1x36W



2x58W



Luxline Plus



SYLDUST

Light Source	A2 Ballasts	B2 Ballasts
T26 1x18W G13	9090850	9090820
T26 1x36W G13	9090851	9090821
T26 1x58W G13	9090852	9090822
T26 2x18W G13	9090853	9090823
T26 2x36W G13	9090854	9090824
T26 2x58W G13	9090855	9090825

DIFFUSERS

Light Source	Opal	Prismatic
T26 1x18W G13	9090830	9090840
T26 1x36W G13	9090831	9090841
T26 1x58W G13	9090832	9090842
T26 2x18W G13	9090833	9090843
T26 2x36W G13	9090834	9090844
T26 2x58W G13	9090835	9090845

A2 Ballasts & Emergency versions available on request.

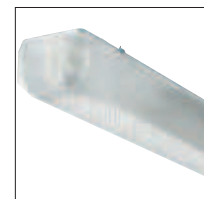
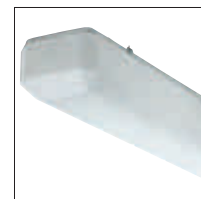
Please ask your local representative.

Opal Diffuser

Wattages	LOR
2x18	58%
1x36	64%
2x36	58%
1x58	64%
2x58	58%

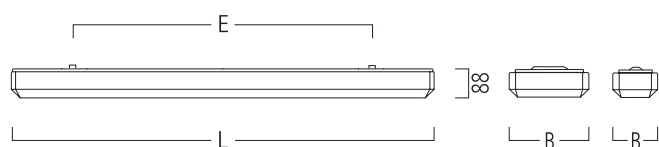
Prismatic Diffuser

Wattages	LOR
2x18	71%
1x36	71%
2x36	71%
1x58	71%
2x58	71%



Diffusers description
Trapezoidal opal PMMA diffusers. Trapezoidal transparent PMMA diffusers with prismatic texture. The materials used guarantee stable corners, resistance to ultraviolet light, and attractive design.

Description
Back plate made of deep-drawn sheet steel, white stove-enamelled. Diffusers are secured by a plastic rotary toggle and sealed by foam plastic gasket. Two cable entries for through-wiring which can be led out of the luminaire without any problem.



DIMENSIONS (MM)				
Lamp	L	B	E	Heaviest weight (kg)
1x18	660	106	460	1.7
1x36	1270	106	900	2.6
1x58	1570	106	1200	3.5
2x18	665	190	445	2.2
1x36	1270	190	900	4.3
1x58	1570	190	1200	5.7

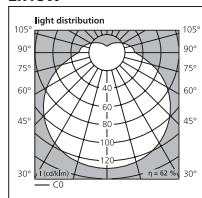
- General lighting for circulation areas
- Functional and economical solution
- Waterproof



SDO



2x18W



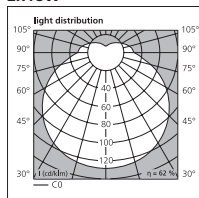
Lynx-L

TC-L 18W 2G11



18W = 1200 lm

2x18W



Lynx-S

TC-S 11W G53



11W = 900 lm

RDO (MAGNETIC BALLASTS, NC)

Light Source

Art. Code

TC-L 2x18W 2G11

0043162

SDO (MAGNETIC BALLASTS, NC)

Light Source

Art. Code

TS-S 2x11W G53

0043105

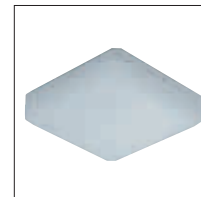
TS-L 2x18W 2G11

0043106

1-10V & Emergency versions available on request.

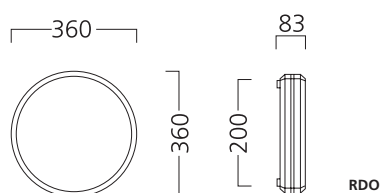
Please ask your local representative.

RDO

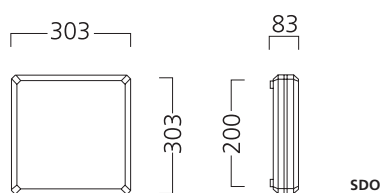


Description

White polycarbonate housing with an opal PMMA diffuser. Electrical equipment fixed on a steel sheet internal gear. Diffuser is clipped on the body.



RDO

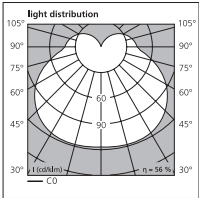


SDO

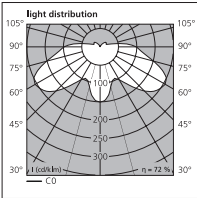
- Vandal-resistant
- Including lamp
- Opal or prismatic diffusers
- Emergency lighting option available



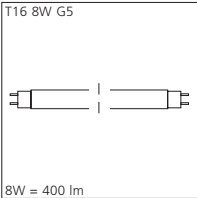
8W



8W



Standard



ARCHOS 8W

Light Source	Colour	Opal diffuser	Prismatic diff.	Prismatic/Emergency
T16 8W G5	White	3031310*	3031300**	3031340**/**

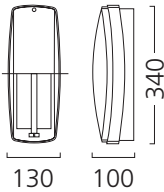
- * Supplied with 830 lamp
** Supplied with (840) lamp
*** Emergency batteries not suitable for use below 0° C

EMERGENCY SELF ADHESIVE LABELS

Pictogram Description	Art. Code
Emergency exit sign	3000400
Emergency exit sign right	3000410
Emergency exit sign left	3000420
Emergency exit sign down/straight on	3000430



Archos with self adhesive labels



Sylvania AS

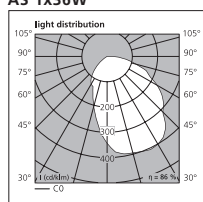
Wall Mounted Fitting

- LIGHTING OF VERTICAL SURFACES:
CLASSROOMS, INTERIOR NOTICE-BOARDS,
WALL PANELS

- Asymmetric reflector
- Low glare
- High output



AS 1x36W



Luxline Plus

T26 36W G13
T26 58W G13



36W = 3350 lm
58W = 5200 lm

Description

Body and end-caps in white lacquered sheet steel.
Asymmetric louvre in satin aluminium. Two fixing brackets,
with bracket covers. Power supply through bracket or
through end.

Wattages	LOR	DFF
1x36	86%	100%
1x58	86%	100%

A2 BALLASTS

Light Source	Art. Code
T26 1x36W G13	0052445
T26 1x58W G13	0052446

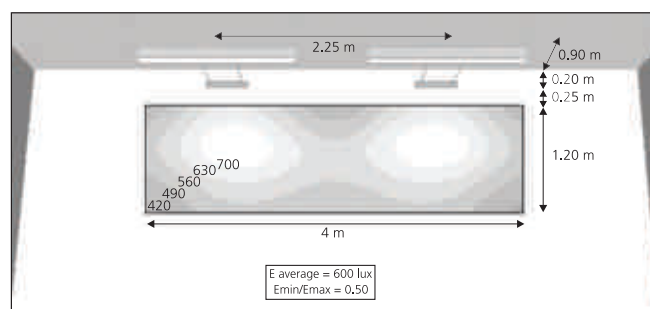
B2 BALLASTS (NC)

T26 1x36W G13	0052325
T26 1x58W G13	0052326

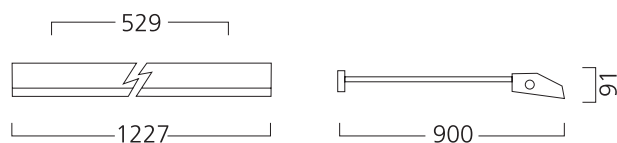
ACCESSORIES

Description	Art. Code
Ceiling fixation	9052318

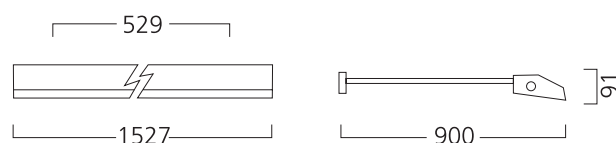
Asymmetrical luminaire installation



1x36W version
Weight 4.5kg



1x58W version
Weight 5.7kg



REVERSIBLE WALL BRACKETS

Description	Art. Code
Reversible wall brackets	5054689



Description

Brackets with, 2 independent white coated sheet steel. Fits with Sylmaster, Syl-Louver, Sylwing, DFO, Sylref-E.

Wall to central product length is 900mm.

SUSPENSION TUBES WITH A RECTANGULAR COVER, EARTH CONTINUITY PROVIDED

Description	Art. Code
Suspension A Pavillon 1000 0.3	0083813
Suspension A Pavillon 100 0.5	0083814
Suspension A Pavillon 1000 1.0	0083815
Suspension A Pavillon 550 0.5	1083817
Suspension A Pavillon 550 1.0	0083818



Description

Suspension with rectangular cover: tubes in white lacquered steel with hooks. Cover locked through washers. Earth continuity.

Centre to centre 550mm: fixed by nuts through the folding flaps of the housing.

Centre to centre 1000mm: fixed by nuts through the key holes of the housing. Used for Sylmaster, Syl-louver, DFO, Sylref-E.

APPLICATIONS

Suspension for surface mounted fixtures and battens

INDEPENDANT SUSPENSION DROP ROD

Description	Art. Code
Suspension 0.3m	0083832
Suspension 0.5m	0083833
Suspension 1.0m	0083834



Description

Suspension with 2 independent white lacquered steel tubes: with hooks and screw eye covers. Fixed with nuts through the key holes of the housing. Earth continuity. For Syl-Louver, Sylmaster, DFO, Sylref-E, SSE.





Mirach
420



Pento
422

Mirach
Pento

Pendants

Sylvania

Mirach



- Designer styled pendant luminaire
- Metal halide, compact fluorescent twin or triple lamps
- Die cast aluminium housing, silver powder coated
- Fitted with 5mm toughened glass closure (this is mandatory when using metal halide lamp versions)
- Stainless steel fixations, Wieland fast connection
- Opal, Aluminium or Prismatic reflectors
- Aluminium reflector Ø300mm
- Polycarbonate prismatic reflector Ø300mm
- Opal glass reflector Ø300mm
- Ø170mm aluminium reflector for CMI-T lamps on prismatic or glass versions (Intensive light distribution)

- Silver powder coated pendant RAL 9006
- Complete with 5mm toughened glass mandatory for metal halide versions
- Includes 3m suspension and electrical cables
- Empty version without gear but E27 socket suitable for mains halogen tubular 100/150W or Hi-Spot lamps



* with prismatic reflector ** with opal and aluminium reflectors



Aluminium Reflector

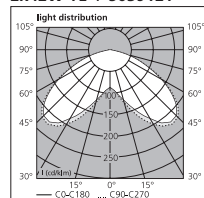


Prismatic Reflector

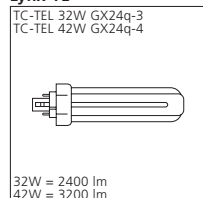


Opal Reflector

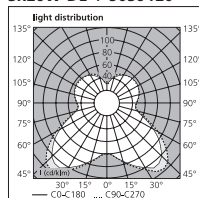
2x42W TE + 5039121



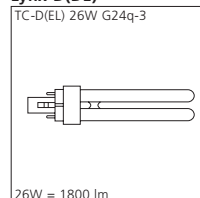
Lynx-TE



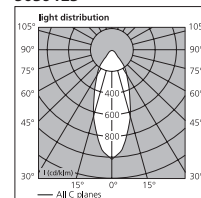
3x26W DE + 5039120



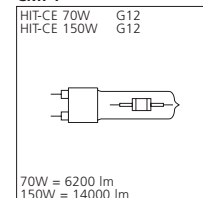
Lynx-D(DE)



70W CMI-T + 5039122 + 5039123



CMI-T



MIRACH

METAL HALIDE VERSIONS

Light Source	Magnetic (230V)	HF Electronic (220-240V)
HIT-CE 70W G12	0039100	
HIT-CE 150W G12	0039101	

METAL HALIDE VERSIONS (HF)

HIT-CE 70W G12	0039102
HIT-CE 150W G12	0039103

COMPACT FLUORESCENT VERSIONS

TC-D(EL) 2x26W G24d-3	0039105
TC-D(EL) 3x26W G24d-3	0039106
TC-D(EL) 2x26W G24q-3	0039107
TC-D(EL) 3x26W G24q-3	0039108
TC-TEL 2x32W GX24q-3	0039107
TC-TEL 3x32W GX24q-3	0039108
TC-TEL 2x42W GX24q-4	0039107
TC-TEL 3x42W GX24q-4	0039108

EMPTY VERSIONS

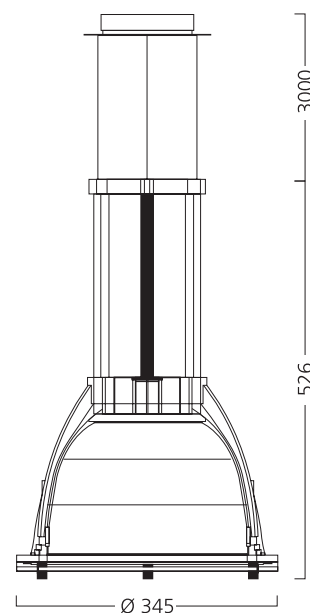
Light Source	Max 150W
Empty E27 - Max. 150W E27	0039104

MIRACH REFLECTORS

Description	Art. Code
Aluminium Reflector D300	5039121
Poly Reflector D300*	5039122
Opal Glass Reflector D300	5039120
Additional Aluminium D170**	5039123

* Reflector D170 is required for use with CMI-T lamps

** Only for use with CMI-T lamps



Lumiance

Pento

- A range of pendant fixtures using compact fluorescent and metal halide lamps, suitable for large areas and high ceilings, such as staircases and mezzanine floors.
- Pento's faceted aluminised polycarbonate reflector is semi-transparent and combines high light output with stylish appearance.
- To improve the colour rendering of warm colours, a sun filter can be attached to the metal halide versions.
- Pento offers conventional or electronic gear.



Pento XL



Pento XS



Pento Deco

Lumiance Pento

XL 370

- LARGE AREAS & ROOMS WITH HIGH CEILINGS
- HALLS, STORAGE FACILITIES & SHOW ROOMS

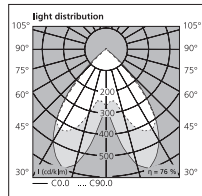
- 370mm diameter
- Polycarbonate reflector with aluminium look
- For compact fluorescent and metal halide lamps
- Stylish appearance in combination with high light output
- Integral magnetic or electronic gear



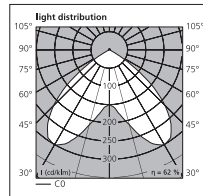
* 2x26W and 2x42W



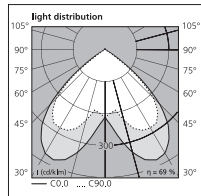
TC-T 26W



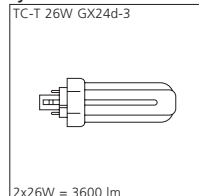
TC-TEL 32W



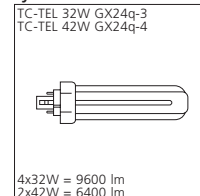
TC-TEL 42W



Lynx-T



Lynx-TE



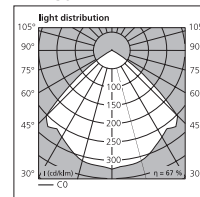
PENTO XL

Light Source	Colour	Magnetic	High Frequency
TC-T 2x26W GX24d-3	Matt Silver	3061190	
TC-TEL 4x32W GX24q-3	Matt Silver		3061250
TC-TEL 2x42W GX24q-4	Matt Silver		3061220
HIE 150W E27	Matt Silver	3061180	
HIT/CMi-T 70W G12 refl.32°	Matt Silver	3061270	
HIT/CMi-T 150W G12 refl.32°	Matt Silver	3061280	

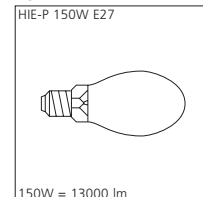
ACCESSORIES

Light Source	Sun Filter	Spot Reflector 22°
HIT/CMi-T 70W/150W	3006890	3004770

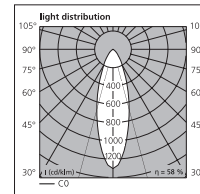
HIE 150W



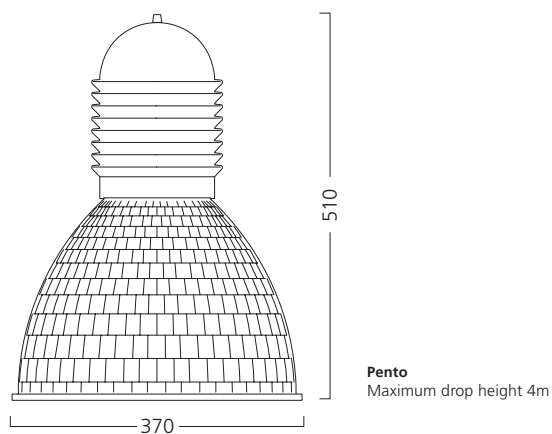
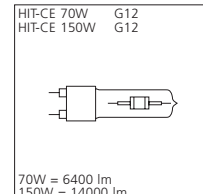
HSI-MP



HIT/CMi-T 70W



CMi-T



Lumiance Pento

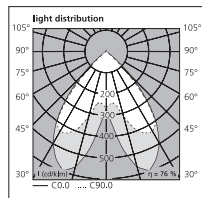
XS 230

- HALLS, STORAGE FACILITIES & SHOW ROOMS
- RECEPTIONS & MEETING ROOMS

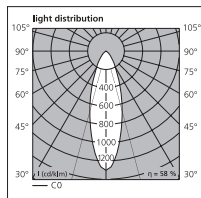
- 230mm Diameter
- Polycarbonate reflector with aluminium look
- Stylish appearance in combination with high light output
- Integral magnetic or electronic gear in ceiling unit



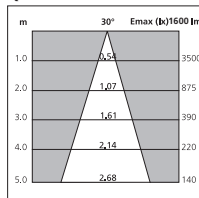
TC-T 26W



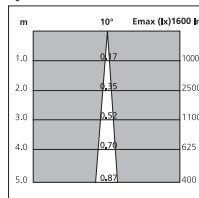
HIT/CEI-T 70W



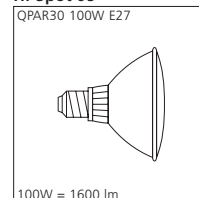
Q-PAR30 30°



Q-PAR30 10°

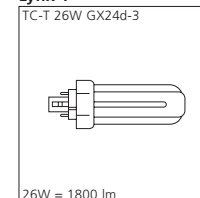


Hi-Spot 95



100W = 1600 lm

Lynx-T

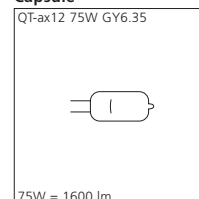


26W = 1800 lm

PENTO XS

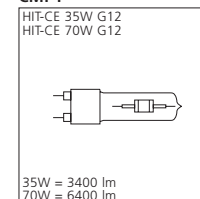
Light Source	Colour	No gear	Magnetic	High Frequency
TC-T 1x26W GX24d-3	Matt Silver		3062320	
QT-ax12 75W GY6.35	Matt Silver			3062310
QPAR30 100W E27	Matt Silver	3062300		
HIT-CE 35W G12 refl. 30°	Matt Silver			3062330
HIT-CE 70W G12 refl. 30°	Matt Silver			3062340

Capsule



75W = 1600 lm

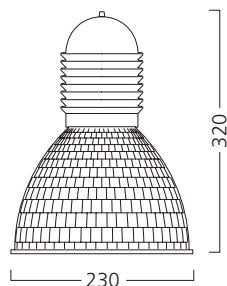
CEI-T



35W = 3400 lm
70W = 6400 lm



Ceiling unit



Pento XS
Maximum drop height 2m

Lumiance Pento

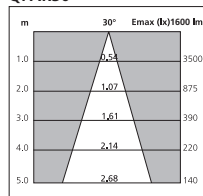
XS Deco 185

- SHOPS AND DEPARTMENT STORES
- FOYERS, RECEPTIONS & MEETING ROOMS
- HOTELS AND RESTAURANTS

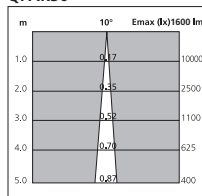
- New small Pento with a decorative opal glass or frosted glass diffuser
- For general lighting in combination with E27 and TC-T lamps
- For accent lighting in combination with BriteSpot ES50
- Shades and lamp units are to be ordered separately



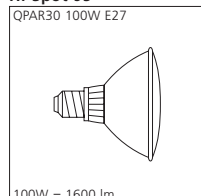
QPAR30



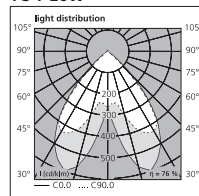
QPAR30



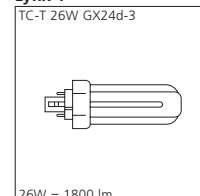
Hi-Spot 95



TC-T 26W



Lynx-T



PENTO DECO LAMP UNIT

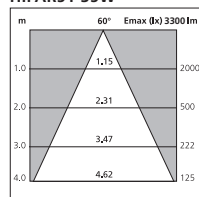
Light Source	Colour	No gear	Magnetic	High Frequency
QPAR30 100W E27	Matt Silver	3062400		
TC-T 1x26W GX24d-3	Matt Silver	3062410		
HIPAR51 35W GX10 *	Matt Silver			3062420

SHADES

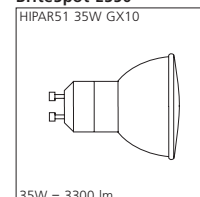
Frosted Glass	Opal Glass
3062470	3062480

* Supplied with Sylvania BriteSpot ES50 35W 60° lamp.

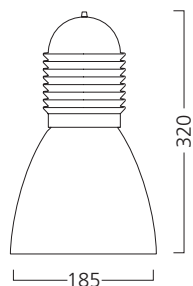
HIPAR51 35W



BriteSpot ES50



Ceiling unit



Pento Deco
Maximum drop height 2m





Sylfast
428



Sylref-E
436



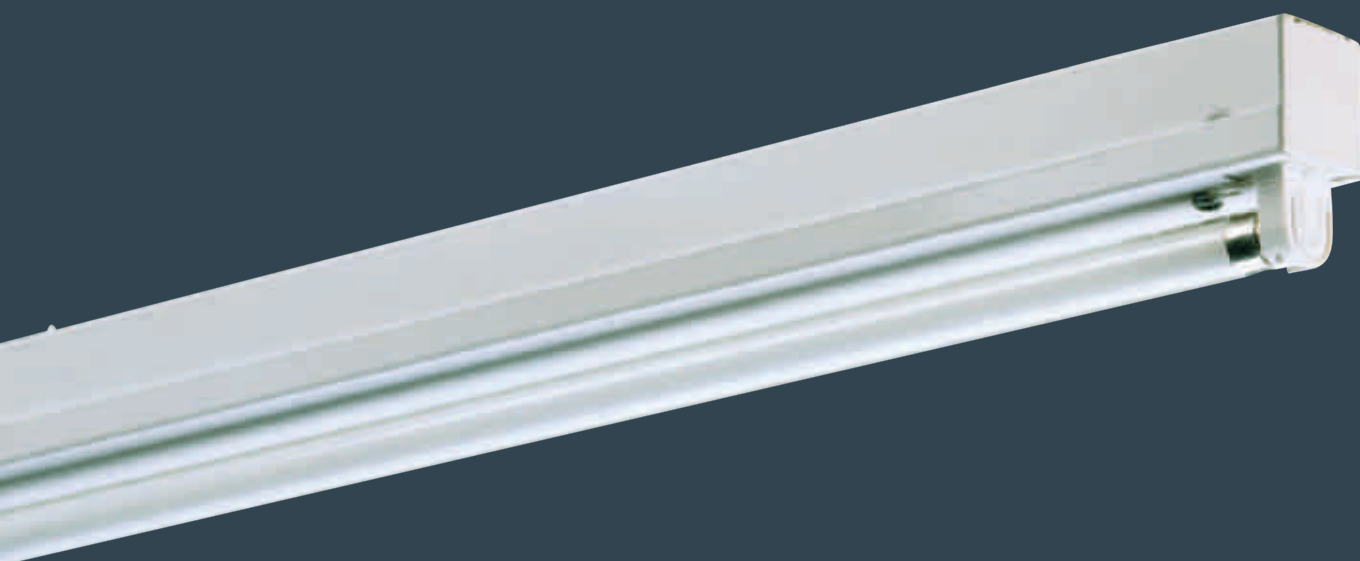
Trunking System
440

Sylfast Sylref-E Trunking System

Battens / Trunking

Sylvania Sylfast

- Simplicity
- Performance
- Compact shape for Ø16 & Ø26 mm fluorescent lamps
- Easy installation



SYLFAST/SSE T5: White coated sheet steel body and cover slid on the body.

SYLFAST/SSE T8: White coated sheet steel body and cover clipped onto the body. End caps clipped on to the body, retaining lamp holders.

SYLFAST/SMI: White coated sheet steel body and polycarbonate fixing tray, for miniature fluorescent lamps 6, 8 and 13W SMI with lamp is fully equipped. Without lamp version, lamp holders and starter have to be clipped.



SSE-T5



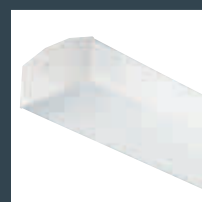
SSE-T5 Interconnection



SSE-T8



SSE-T8 Reflector



SSE-T8 Diffuser



SMI-T5



Sylvania Sylfast

SSE-T5 / SSE-T5 Diffuser

- INDUSTRIAL, TERTIARY OR COMMERCIAL SECTORS AND HOUSING. INDIRECT HIDDEN LIGHTING, HOTELS, RETAIL STORES, DISPLAYS,...FACILITY TO INTEGRATE INTO FALSE CEILINGS OR IN CONTINUOUS LINES.

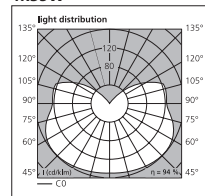
- Slim body
- Made of roll-formed steel
- Punch out holes on both ends
- 3-pole terminal block



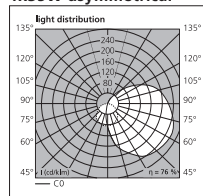
* 850°C using the diffuser



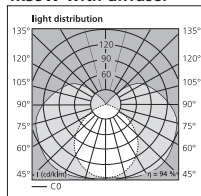
1x35W



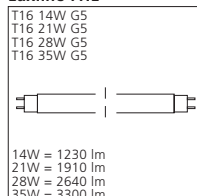
1x35W asymmetrical



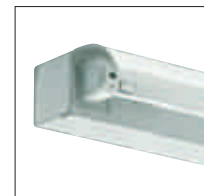
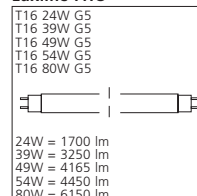
1x35W with diffuser



Luxline FHE



Luxline FHO



Sylfast asymmetrical

SSE-T5 FHE

Light Source	Dim 1-10V
T16 1x14W G5	0046301 0057610
T16 1x21W G5	0046302 0057650
T16 1x28W G5	0046303 0057651
T16 1x35W G5	0046304 0057652
T16 2x14W G5	0057560
T16 2x21W G5	0057561 0057571
T16 2x28W G5	0057562 0057572
T16 2x35W G5	0057563 0057573

ASYMMETRICAL

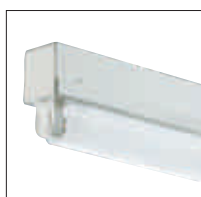
Light Source	Dim 1-10V
T16 1x14W G5	0046204
T16 1x21W G5	0046205 0057644
T16 1x28W G5	0046206 0057640
T16 1x35W G5	0046207 0057641

ACCESSORIES

Polycarbonate Diffuser	Art. Code
14W/24W	5046208
21W/39W	5046210
28W/54W	5046211
35W/49W	5046212

SSE-T5 FHO

Light Source	Dim 1-10V
T16 1x24W G5	0046382 0057611
T16 1x39W G5	0046383 0057612
T16 1x49W G5	0046384 0057613
T16 1x54W G5	0046385 0057614
T16 1x80W G5	0057580 0057590
T16 2x24W G5	0057581
T16 2x39W G5	0057582 0057592
T16 2x54W G5	0057583 0057593
T16 2x49W G5	0057584 0057594
T16 2x80W G5	0057585



Polycarbonate diffuser for a diffuse lighting distribution

1X35W ASYMMETRICAL

Wattages	LOR	DFF
1x14	76%	71%
1x21	76%	71%
1x28	76%	71%
1x35	76%	71%

1X35W

Wattages	LOR	UTE	DFF
1x14	94%	0.70H+0.24T	74%
1x21	94%	0.70H+0.24T	74%
1x28	94%	0.70H+0.24T	74%
1x35	94%	0.70H+0.24T	74%

1X35W WITH DIFFUSER

Wattages	LOR	UTE	DFF
1x14	89%	0.66H+0.23T	74%
1x21	89%	0.66H+0.23T	74%
1x28	89%	0.66H+0.23T	74%
1x35	89%	0.66H+0.23	

DIMENSIONS (MM) SSE-T

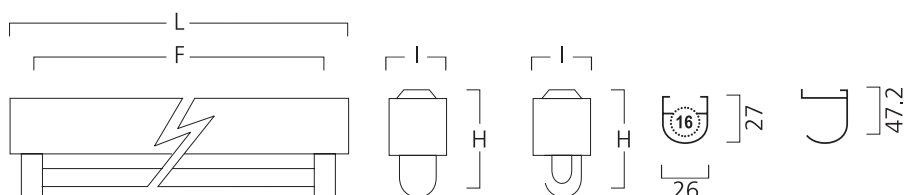
Lamp	L	I	H	F	Heaviest weight (kg)
1x14	578	33.4	64	450	0.8
1x21	878	33.4	64	700	1
1x28	1178	33.4	64	900	1.5
1x35	1478	33.4	64	900	2

DIMENSIONS (MM) SSE-T5 ASYMMETRICAL

1x14	578	33.4	86.4	450	1
1x21	878	33.4	86.4	700	1.2
1x28	1178	33.4	86.4	900	1.7
1x35	1478	33.4	86.4	900	2.2

DIMENSIONS (MM) RIBBED DIFFUSER

1x14	545	26	27	-	0.055
1x21	845	26	27	-	0.085
1x28	1145	26	27	-	0.115
1x35	1445	26	27	-	0.145



Sylvania Sylfast

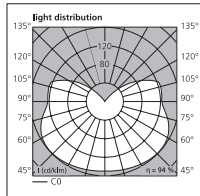
SSE-T5 Interconnection

- INDUSTRIAL, TERTIARY OR COMMERCIAL SECTORS AND HOUSING, HOTELS, RETAIL STORES, FACILITY TO INTEGRATE INTO FALSE CEILINGS OR IN CONTINUOUS LINES.

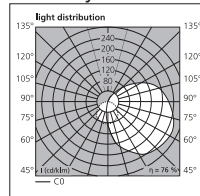
- Fast connection system with Wieland connector
- Slim body
- Made of roll-formed steel
- Punch out holes on both ends
- 3-pole terminal block



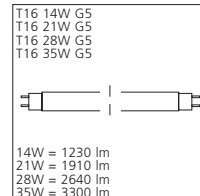
1x14W



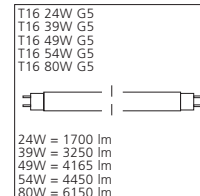
1x35W asymmetrical



Luxline FHE



Luxline FHO



SSE-T5 FHE CONNECTION

Light Source	Art. Code
T16 1x14W G5	0057520
T16 1x21W G5	0057521
T16 1x28W G5	0057522
T16 1x35W G5	0057523
T16 2x14W G5	0057524
T16 2x21W G5	0057525
T16 2x28W G5	0057526
T16 2x35W G5	0057527

SSE-T5 CONNECT

Light Source	Wieland	Art. Code
SSE-T5 Connect	0.0m	5057540
SSE-T5 Connect	0.5m	5057541
SSE-T5 Connect	1.0m	5057542
SSE-T5 Connect	2m + euro plug	5057543

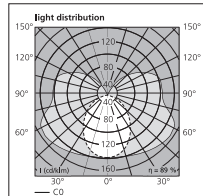
SSE-T5 FHO

Light Source	Art. Code
T16 1x24W G5	0057530
T16 1x39W G5	0057531
T16 1x49W G5	0057532
T16 1x54W G5	0057533
T16 1x80W G5	0057534
T16 2x24W G5	0057535
T16 2x39W G5	0057536
T16 2x49W G5	0057537
T16 2x54W G5	0057538
T16 2x80W G5	0057539

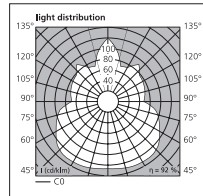
- Made of roll-formed steel
- Punch out holes on both ends
- 3-pole terminal block



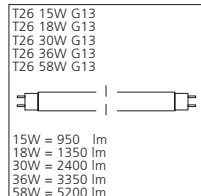
1x36W



2x58W



Luxline Plus



Wattages	LOR	UTE	DFF
1x36	92%	0.65H+0.27T	71%
1x58	94%	0.67H+0.27T	71%
2x36	89%	0.53GH+0.36T	60%
2x58	91%	0.54GH+0.37T	59%

ELECTRONIC BALLAST

Light Source	Dim 1-10V
T26 1x18W G13	0046420 0084615
T26 1x36W G13	0046421 0084616
T26 1x58W G13	0046422 0084617
T26 2x36W G13	0046407 0084618
T26 2x58W G13	0046408 0084619
T26 2x18W G13	0050062

EMERGENCY 3H

T26 1x36W G13	0046160
T26 1x58W G13	0046162
T26 2x36W G13	0046161
T26 2x58W G13	0046163

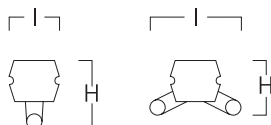
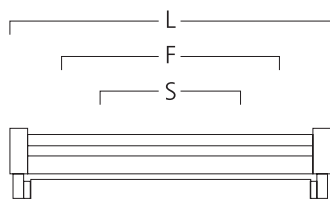
B2 BALLASTS

Light Source	Non Compensated	Parallel Compensated
T26 1x15W G13	0046320	
T26 1x18W G13	0046321	0046381
T26 1x30W G13	0046322	0046367
T26 1x36W G13	0046323	0046324
T26 1x58W G13	0046326	0046327
T26 2x18W G13	0046329	
T26 2x36W G13	0046331	0046332
T26 2x58W G13	0046334	0046335

FIXTURE INCLUDING LAMP COOL WHITE 840

Light Source	Non compensated*
T26 1x18W G13	0084627
T26 1x36W G13	0084628
T26 1x58W G13	0084629

* Prepared with capacitor terminal



DIMENSIONS (MM)

Lamp	L	I	H	F	S	Heaviest weight (kg)
1x15	466	51	82	343.5	-	1.05
1x18	618	51	82	495.5	-	1.15
1x30	922.5	51	82	800	550	1.35
1x36	1227	51	82	800	550	1.35
1x58	1527	51	82	800	550	2.40
2x18	618	118	53.5	495.5	-	1.15
2x36	1227	118	53.5	800	550	2.35
2x58	1527	118	53.5	800	550	3.55

Sylvania Sylfast

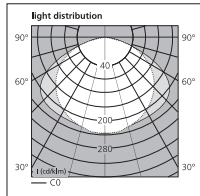
SSE-T8 Reflector

- TERTIARY, INDUSTRIAL OR COMMERCIAL SECTORS.

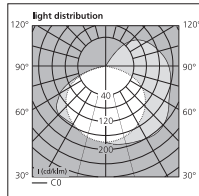
- Reflector for symmetrical direct or asymmetrical lighting distribution
- Made of coated steel sheet



1x36W



1x58W



Luxline Plus

T26 36W G13
T26 58W G13



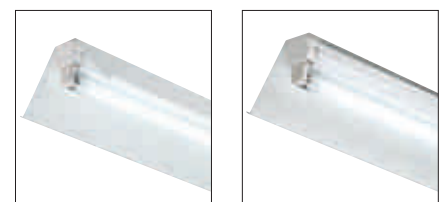
36W = 3350 lm
58W = 5200 lm

WHITE PAINTED REFLECTORS

Light Source	Reflectors	Semi-reflectors
T26 1x36W G13	0046169	0046173
T26 1x58W G13	0046170	0046174
T26 2x36W G13	0046171	
T26 2x58W G13	0046172	

Example of order

SSE-T8 with reflector	
SSE-T8 T26 1x36W G13	0046324
SSE reflector 1x36W	0046169



Description

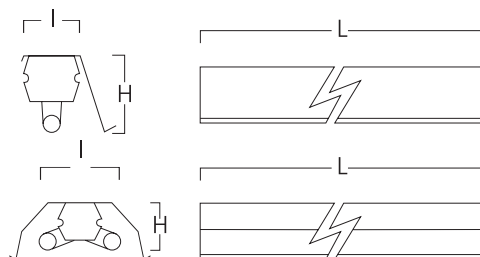
Adaptable white coated sheet steel casings: semi-reflector on single batten, RF reflector: on both.

T8 ASYMETRICAL

Wattages	LOR	DFF
1x36	85%	84%
1x58	86%	84%

T8 + REFLECTOR

Wattages	LOR	UTE	DFF
1x36	79%	0.79E	100%
1x58	80%	0.80E	100%
2x36	75%	0.75E	100%
2x58	76%	0.76E	100%



DIMENSIONS (MM) REFLECTOR

Lamp	L	I	H	Heaviest weight (kg)
1x36	1227	208	110	2.33
1x58	1527	208	110	2.85
2x36	1227	238	68	1.90
2x58	1527	238	68	2.40

DIMENSIONS (MM) SEMI-REFLECTOR

Lamp	L	I	H	Heaviest weight (kg)
1x36	1227	132	110	1.40
1x58	1527	132	110	1.75

Sylvania Sylfast

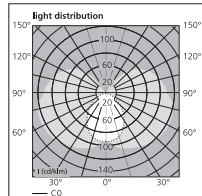
SSE-T8 Diffuser

- TERTIARY, INDUSTRIAL, COMMERCIAL OR HOUSING SECTORS.

- Diffuser optics for wide lighting distribution
- Clear, opal or ridged opal version
- Easy installation

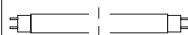


1x36W



Luxline Plus

T26 36W G13
T26 58W G13



36W = 3350 lm
58W = 5200 lm

Wattages	LOR	UTE	DFF
1x36	82%	0.54HJ+0.28T	64%
1x58	82%	0.54HJ+0.28T	64%
2x36	74%	0.34GH+0.40T	46%
2x58	75%	0.34GH+0.41T	45%



DIFFUSER OPTIC

Light Source	Clear Polystyrene	Ridged Opal Polystyrene	Opal methacrylate
T26 1x15W G13	0046175	9046220	
T26 1x18W G13	0046176	9046221	
T26 1x30W G13	0046177	9046222	
T26 1x36W G13	0046178	9046223	
T26 1x58W G13	0046179	9046224	
T26 2x18W G13			9046186
T26 2x36W G13			9046187
T26 2x58W G13			9046188

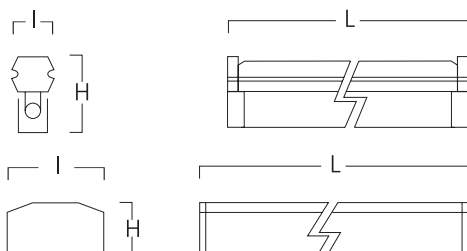
Example of order

Example of order SSE-T8 with opal diffuser

SSE-T8 2x36W 0046331
SSE opal diffuser 9046187

Description

Polystyrene clear & opal diffusers for single versions. Methacrylate opal one for twin versions.



DIFFUSER

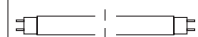
Lamp	L	I	H	Heaviest weight (kg)
1x15	466	51	88	0.20
1x18	618	51	88	0.24
1x30	922	51	88	0.35
1x36	1227	51	88	0.46
1x58	1527	51	88	0.56
2x18	623	141	81	0.75
2x36	1232	141	81	1.20
2x58	1532	141	81	1.50

- Easy installation
- Short lenght

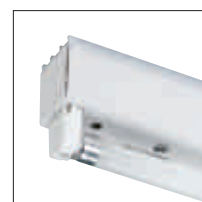


Standard

T16 6W G5
T16 8W G5
T16 13W G5

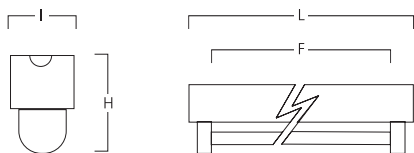


6W = 280 lm
8W = 400 lm
13W = 880 lm



B2 BALLASTS (NC)

Light Source		+ switch
T16 1x6W G5	0040139	
T16 1x8W G5	0040140	0040144
T16 1x13W G5	0041660	0041666



DIMENSIONS (MM)

Lamp	L	I	H	F	Heaviest Weight(kg)
1x6	238	31	54	190	0.53
1x8	314	31	54	267	0.56
1x13	544	31	54	495	0.69

DIMENSIONS (MM) MINISTRIP WITH DIFFUSER

1x8	314	31	73	267	0.8
1x13	544	31	73	495	1.15

Sylvania

Sylref-E

- Easy to install
- Large range of functional accessories

Sylref-E has been designed because in industrial environments, more than anywhere else, lighting quality is essential to ensure effective working as well as personal safety. The luminaire combines efficient lighting with rigidity and ease of installation and maintenance.

Added to the ease of installation and maintenance of the Sylref-E range of industrial reflectors, is a range of attachments corresponding to different types of applications.

For industrial or sports facilities, suspended ceilings or not, Sylref-E can be adapted to any situation.



White painted reflector



Brilliant aluminium reflector



Sylvania Sylref-E

White painted reflector

- INDUSTRIAL PREMISES AND SPORT FACILITIES
ACILITIES, WORKSHOPS, WAREHOUSES AND
ASSEMBLY LINES.

- Fast installation
- White coated body
- Numerous applications
- Functional accessories



(1) with painted louvre
(2) with protective grid



WHITE PAINTED REFLECTOR

Wattages	LOR	UTE	DFF
1x36	84%	0.84EG	100%
1x58	84%	0.84EG	100%
2x36	82%	0.82EG	100%
2x58	82%	0.82EG	100%
3x58	81%	0.81E	100%

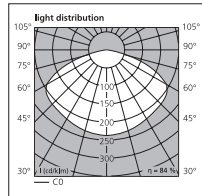
WHITE PAINTED LOUVRE

Wattages	LOR	UTE	DFF
2x36	51%	0.51CD	100%
2x58	51%	0.51CD	100%
3x58	51%	0.51CD	100%

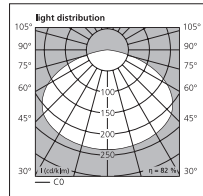
PROTECTIVE GRID

Wattages	LOR	UTE	DFF
2x36	76%	0.76EG	100%
2x58	74%	0.74E	100%
3x58	72%	0.72E	100%

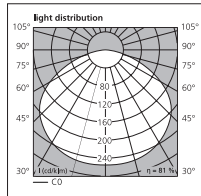
1x36W



2x36W

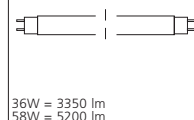


3x58W



Luxline Plus

T26 36W G13
T26 58W G13



36W = 3350 lm
58W = 5200 lm

A2 BALLASTS

Light Source	Emergency 3 hr.	
T26 1x36W G13	0052104	
T26 2x36W G13	0052105	0054010
T26 1x58W G13	0052106	
T26 2x58W G13	0052068	0054011
T26 3x58W G13	0054009	0054012

A3 BALLAST

Light Source	
T26 2x58W G13	5053069

B2 BALLASTS

Light Source	Parallel comp.	Serie comp.	Non comp.
T26 1x36W G13	0052060		0052133
T26 1x58W G13	0052061		0052134
T26 2x36W G13	0052062	0052139	0052135
T26 2x58W G13	0052063	0052064	0052136
T26 3x58W G13		0052066	

WHITE PAINTED GRID

Description	Art. Code
36W module	9091912
58W module	9091913
White painted grid end caps	0098292
Fixing jaws (pair)	0052120

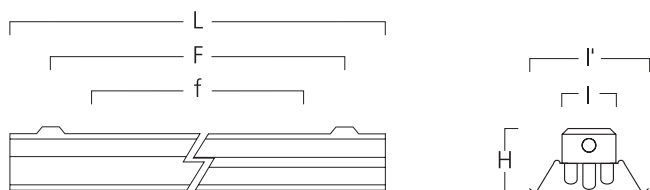
PROTECTIVE GRID

Description	Art. Code
58W module	9056510
Protective grid end caps	0056482
Fixing brackets (2 needed per grid)	9056511

White painted grid



Protective grid



DIMENSIONS (MM)

Lamp	L	I	I'	H	F	f	Heaviest weight (kg)
1x36	1227	111	218	94	1000	700	3.4
1x58	1527	111	218	94	1000	700	3.9
2x36	1227	111	218	94	1000	700	4.0
2x58	1527	111	218	94	1000	700	5.0
3x58	1527	111	218	94	1000	700	6.1

Sylvania Sylref-E

Brilliant aluminium reflectors

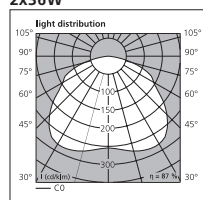
- INDUSTRIAL PREMISES AND SPORT FACILITIES, WORKSHOPS, WAREHOUSES AND ASSEMBLY LINES.

- Fast installation
- Numerous industrial applications
- High output
- Functional accessories

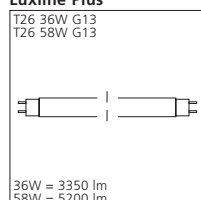


(1) with protective louvre
(2) with protective grid

2x36W



Luxline Plus



Wattages	LOR	UTE	DFF
2x36	88%	0.88DE	100%
2x58	92%	0.92DE	100%
3x58			

A2 BALLASTS

Light Source		Emergency 3 hours
T26 2x36W G13	0054063	0054076
T26 2x58W G13	0054064	0054077
T26 3x58W G13	0054065	0054078

A3 BALLAST

Light Source	
T26 2x58W G13	0054066

B2 BALLASTS

Light Source	Parallel compensated	Serie compensated
T26 2x36W G13	0054067	0054070
T26 2x58W G13	0054068	0054071
T26 3x58W G13	0054069	0054072

WHITE PAINTED GRID

Description	Art. Code
36W module	9091912
58W module	9091913
White painted grid end caps	0098292
Fixing jaws (pair)	0052120

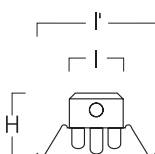
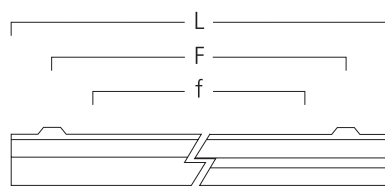
White painted grid



PROTECTIVE GRID

Description	Art. Code
58W module	9056510
Protective grid end caps	0056482
Fixing brackets (2 needed per grid)	9056511

Protective grid



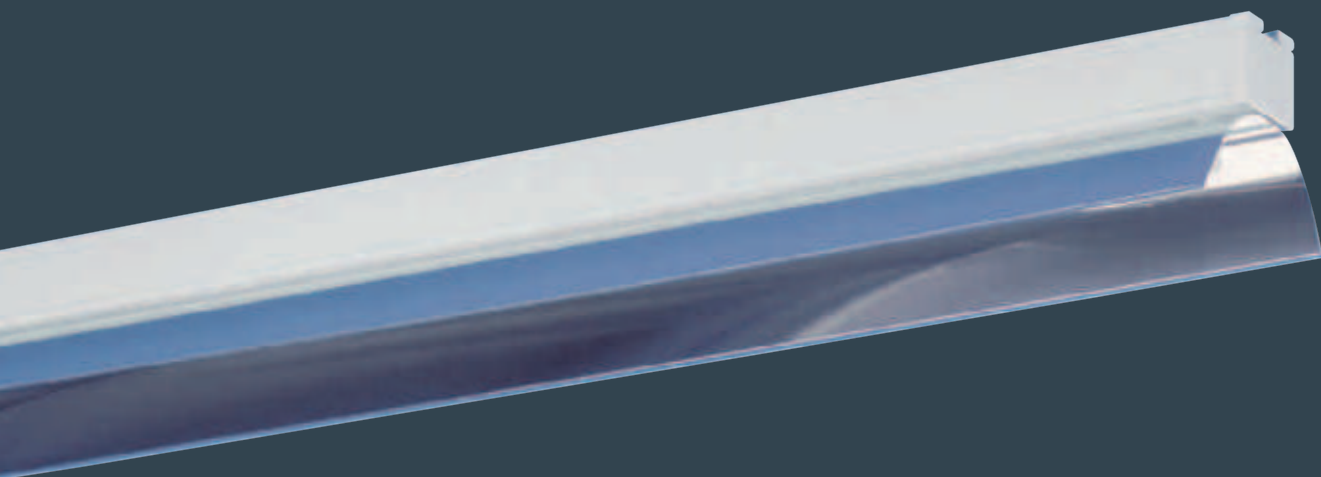
DIMENSIONS (MM)

Lamp	L	I	H	F	f	Heaviest weight (kg)
1x36	1227	111	218	1000	700	3.4
1x58	1527	111	218	1000	700	3.9
2x36	1227	111	218	1000	700	4.0
2x58	1527	111	218	1000	700	5.0
3x58	1527	111	218	1000	700	6.1

Sylvania

Trunking System

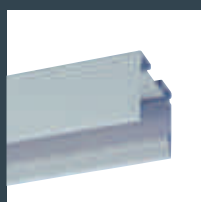
- Various of optics
- Trunking Rail up to 7 pole wiring
- Easy to configure and install



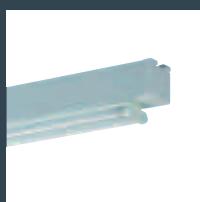
Flexible universal continuous row luminaire system, suitable for working area, sales rooms, workshops, as well as warehouses and underground car park illumination



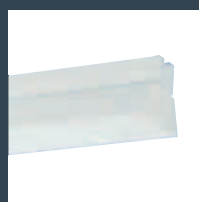
System Overview



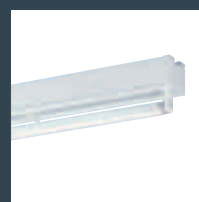
Trunking Rail



Gear Tray T5



Optic T5



Gear Tray T8



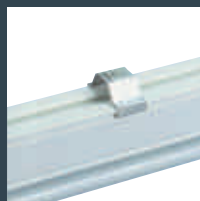
Reflector T8



Lay-in-Optic T8



Gear Tray T8 Higher Protection



Mounting Accessories

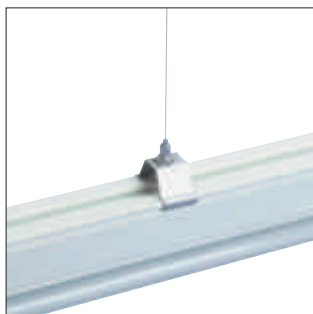


Sylvania SLB Trunking System

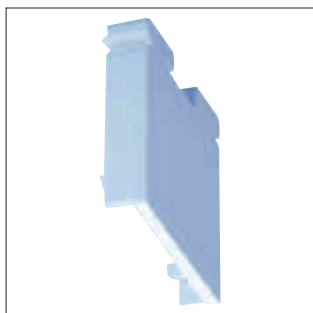
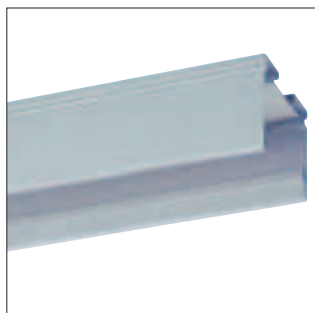
System Overview

- INDUSTRIAL, TERTIARY OR COMMERCIAL SECTORS AND HOUSING, INDIRECT HIDDEN LIGHTING, HOTELS, RETAILS STORES, DISPLAYS... FACILITY TO INTEGRATE INTO FALSE CEILINGS OR IN CONTINUOUS LINES.

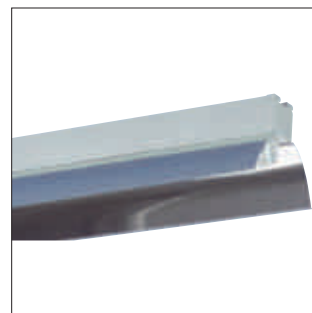
Mounting Accessory



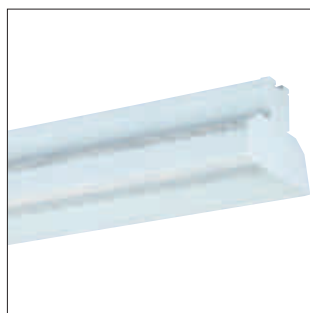
Rail



Reflector Optic



Basis Reflector



Lay-In Optic for Basis Reflector



A flexible universal continuous row luminaire system, suitable for working area, sales rooms, workshops, as well as warehouses and underground car park illumination. The whole system is a quick-assembly and designed for optimum flexibility.

Installation time can be greatly reduced using the plug-in connections of the electrical components as well as the snap-in and click-in system connections. The wide range of system modules enables cost effective, continuous lighting with reflector and louvre accessories to offer specific lighting features.

Through-phase current wiring (SLB-TS) 5x1,5 mm², 5x2,5mm² and 7x1,5mm² for dimmable components or EIB installation-bus and push in connectors are standard. The module is available in three lengths, coupler units (SLB-TC) are supplied with the 2-length and 3-length tracks but are not required for the single length unit.

The gear tray is equipped with a low loss ballast (B2) or high frequency ballast (A2). The electrical connection is made by means of a plug with phase preselection. The overhead cable guide slot allows the laying of additional electrical cables withing the trunking. The system is available in IP20 or in IP54.

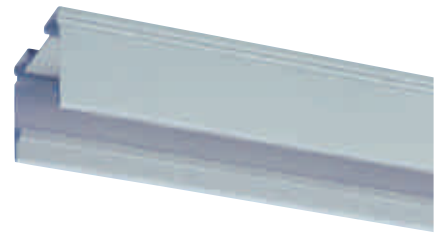
The whole system is very easy to assemble and can be completed without the use of any tools. The gear tray connects to the track with quick release connectors which are also used to hold the reflectors in place

Sylvania SLB Trunking System

Trunking Rail

- INDUSTRIAL, TERTIARY OR COMMERCIAL SECTORS AND HOUSING, HOTELS, RETAIL STORES, FACILITY TO INTEGRATE INTO FALSE CEILINGS OR IN CONTINUOUS LINES.

- Steel plate galvanized on both sides, with white coating
- Including through-wiring $5 \times 1.5\text{mm}^2$ / $7 \times 1.5\text{mm}^2$ / $5 \times 2.5\text{mm}^2$
- For equipping with recessed lights in protection classes IP20, IP54 and IP54FF
- Single lenght without track coupler

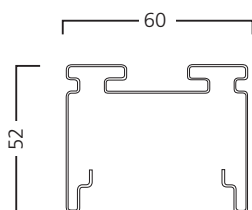


* D Mark by using IP54FF



PREWIRED SLB-TS + TW $5 \times 1.5\text{MM}^2$

Description	Art. Code	Lenght (mm)
28/36/54 1 Lenght	9090721	1300
28/36/54 2 Lenght	9090613	2478
28/36/54 3 lenght	9090614	3717
35/49/80/58 1 Lenght	9090722	1650
35/49/80/58 2 Lenght	9090615	3078
35/49/80/58 3 lenght	9090616	4617



PREWIRED SLB-TS + TW $5+2 \times 1.5\text{MM}^2$

Description	Art. Code	Lenght (mm)
28/36/54 1 Lenght	9090725	1300
28/36/54 2 Lenght	9090609	2478
28/36/54 3 lenght	9090610	3717
35/49/80/58 1 Lenght	9090726	1650
35/49/80/58 2 Lenght	9090611	3078
35/49/80/58 3 lenght	9090612	4617

PREWIRED SLB-TS + TW $5 \times 2.5\text{MM}^2$

Description	Art. Code	Lenght (mm)
28/36/54 1 Lenght	9090723	1300
28/36/54 2 Lenght	9090617	2478
28/36/54 3 lenght	9090618	3717
35/49/80/58 1 Lenght	9090724	1650
35/49/80/58 2 Lenght	9090619	3078
35/49/80/58 3 lenght	9090620	4617

TRUNKING END CAPS

Description	Art. Code
SLB-EC IP20	9090709
SLB-EC IP54	9090711



IP54 end-cap with integrated gaskets in foam material and two push-in connectors for supply



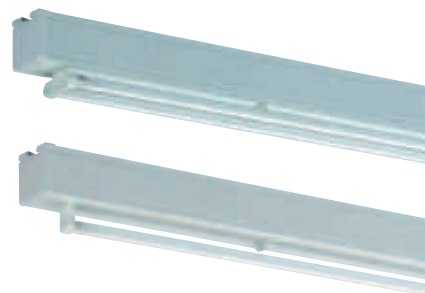
IP20 end-cap in plastic with two knock-outs for supply or through wiring

Sylvania SLB Trunking System

Gear Tray T5

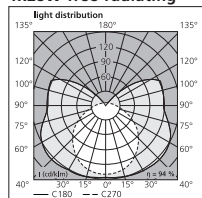
- INDUSTRIAL, TERTIARY OR COMMERCIAL SECTORS AND HOUSING, INDIRECT HIDDEN LIGHTING, HOTELS, RETAILS STORES, DIS PLAYS... FACILITY TO INTEGRATE INTO FALSE CEILINGS OR IN CONTINUOUS LINES.

- Made from steel plate galvanized on both sides, with white coating
- Easy mounting with quick locks
- Mechanical and electrical connection in one step

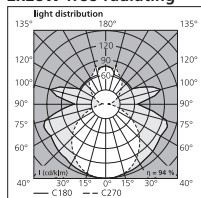


* D Mark by using IP54FF

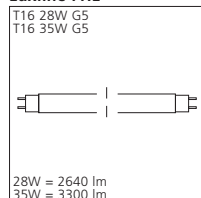
1x28W free-radiating



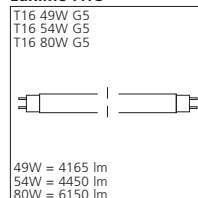
2x28W free-radiating



Luxline FHE



Luxline FHO



SLB-GT FHE

Light Source	Art. Code
T16 1/28W G5	9090621
T16 1/35W G5	9090622
T16 2/28W G5	9090626
T16 2/35W G5	9090627

SLB-GT FHO

Light Source	Art. Code
T16 1/49W G5	9090623
T16 1/54W G5	9090624
T16 1/80W G5	9090625
T16 2/49W G5	9090628
T16 2/54W G5	9090629
T16 2/80W G5	9090630

Sylvania SLB Trunking System

Optic T5

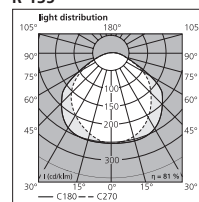
- INDUSTRIAL, TERTIARY OR COMMERCIAL SECTORS AND HOUSING, HOTELS, RETAIL STORES, FACILITY TO INTEGRATE INTO FALSE CEILINGS OR IN CONTINUOUS LINES.

WHITE REFLECTOR T5

- Made from steel plate galvanized on both sides, with white coating
- Easy mounting with quick locks

Description	Art. Code
SLB-R T5 28/54W	9090632
SLB-R T5 35/49/80W	9090633

R 135

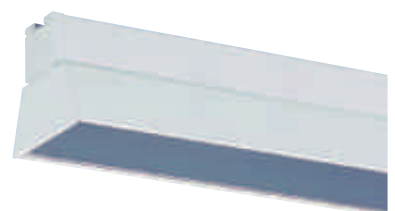
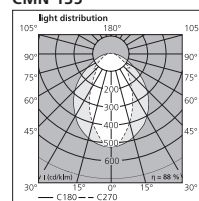


LAY-IN MIRROR REFLECTOR T5 NARROW/WIDE DISTRIBUTION

- Mirror reflector in high grade aluminium, high gloss anodized
- Narrow/Wide beam angle light distribution
- Mountable without tools in reflector SLB-R T5

Description	Art. Code
SLB-CMN T5 28/54W	9090637
SLB-CMN T5 35/49/80W	9090639
SLB-CMN T5 2x28/54W	9090636
SLB-CMN T5 2x35/49/80W	9090638

CMN 135

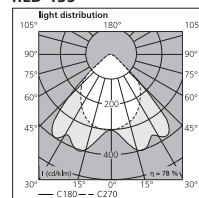


DARKLIGHT-LOUVRE T5

- Reflector with parabolic darklight reflective louvre, with mirror finish
- Easy mounting with quick locks

Description	Art. Code
SLB-RDL T5 28/54W	9090634
SLB-RDL T5 35/49/80W	9090635

RDL 135

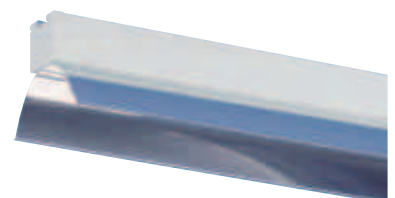
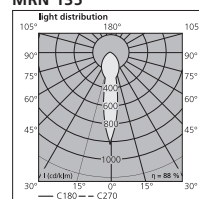


MIRROR REFLECTOR T5 NARROW DISTRIBUTION

- Mirror reflector T5 made from mirror-finish highest-grade aluminium with extremely narrow beam light intensity distribution

Description	Art. Code
SLB-MRN T5 28/54W	9090641
SLB-MRN T5 35/49/80W	9090643
SLB-MRN T5 2x28/54W	9090642
SLB-MRN T5 2x35/49/80W	9090640

MRN 135



Sylvania SLB Trunking System

Gear Tray T8

- INDUSTRIAL, TERTIARY OR COMMERCIAL SECTORS AND HOUSING, INDIRECT HIDDEN LIGHTING, HOTELS, RETAILS STORES, DISPLAYS... FACILITY TO INTEGRATE INTO FALSE CEILINGS OR IN CONTINUOUS LINES.

- Gear Tray SLB-GT T8
- Made from steel plate galvanized on both sides, with white coating
- Easy mounting with quick locks
- Mechanical and electrical connection in one step

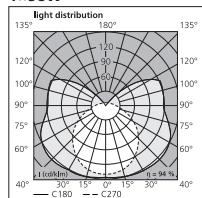


* D Mark by using IP54FF

** By using Gear Tray T8 Higher Protection IP54 & IP54FF



1x58W



Luxline Plus

T26 36W G13
T26 58W G13



36W = 3350 lm
58W = 5200 lm

SLB-GT T8

Light Source	NC	EB
T26 1/36W G13	9090644	9090648
T26 1/58W G13	9090645	9090649
T26 2/36W G13	9090646	9090650
T26 2/58W G13	9090647	9090651

GEAR TRAY SLB-GT T8 EMERGENCY

- Gear tray with integrated E27, 2G7 lamp holder or battery pack for 1 or 3 hour.
- Made from steel plate galvanized on both sides, with white coating.
- Easy mounting with quick locks.
- Mechanical and electrical connection in one step.

SLB-GT T8 E27

Light Source	NC	EB
T26 1/36W G13	9090652	9090655
T26 2/36W G13	9090653	9090656

SLB-GT T8 2G7

Light Source	EB
T26 1/36W G13	9090654
T26 2/36W G13	9090720

SLB-GT T8 WITH 1 HOUR BATTERY UNIT

Light Source	NC	EB
T26 1/58W G13	9090698	9090699

SLB-GT T8 WITH 3 HOURS BATTERY UNIT

Light Source	EB
T26 2/58W G13	9090736



Sylvania SLB Trunking System

Reflector T8

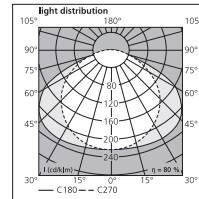
- INDUSTRIAL, TERTIARY OR COMMERCIAL SECTORS AND HOUSING, INDIRECT HIDDEN LIGHTING, HOTELS, RETAILS STORES, DISPLAYS... FACILITY TO INTEGRATE INTO FALSE CEILINGS OR IN CONTINUOUS LINES.

WHITE REFLECTOR

- Made from steel plate galvanized on both sides, with white coating
- Easy mounting with quick locks
- Can combined with Reflectors
- Included plastic End-Cap

Light Source	Art. Code
SLB-R T8 36W	9090669
SLB-R T8 58W	9090670

1x58W+R

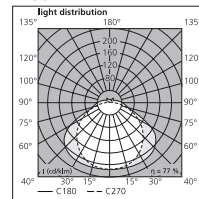


WHITE REFLECTOR PERFORATED

- Perforated steel plate galvanized on both sides, with white coating
- Easy mounting with quick locks
- Can combined with Lay in optics
- Included plastic End-Cap

Description	Art. Code
SLB-R PER T8 36W	9090671
SLB-R PER T8 58W	9090672

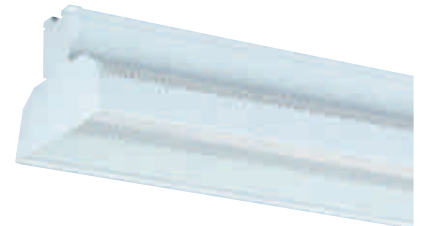
1x58W+R PER



WHITE REFLECTOR LATERAL PERFORATED

- Lateral perforated steel plate galvanized on both sides, with white coating
- Included plastic End-Cap
- Easy mounting with quick locks
- Can combined with Lay in optics

Description	Art. Code
SLB-R L-PER T8 36W G13	9090673
SLB-R L-PER T8 58W G13	9090674



LAY-IN MIRROR REFLECTOR NARROW/WIDE

- Narrow/wide beam angle light distribution
- Mirror reflector in high grade aluminium, high gloss anodized
- Easy mounting with quick locks without tools
- Included plastic End-Cap

Description	Art. Code
SLB-CMN T8 1/36W	9090675
SLB-CMN T8 1/58W	9090676
SLB-CMN T8 2/36W	9090677
SLB-CMN T8 2/58W	9090678
SLB-CMN Asym T8 36W	9090679
SLB-CMN Asym T8 58W	9090680

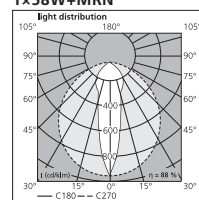


MIRROR REFLECTOR NARROW DISTRIBUTION

- Extremely narrow beam light intensity distribution
- Mirror reflector made from mirror-finish highest-grade aluminium
- Easy mounting with quick locks without tools

Description	Art. Code
SLB-MRN T8 36W	9090681
SLB-MRN T8 58W	9090682

1x58W+MRN



Sylvania SLB Trunking System

Lay-In Optic T8

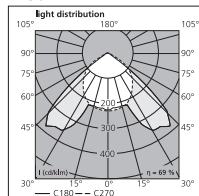
- INDUSTRIAL, TERTIARY OR COMMERCIAL SECTORS AND HOUSING, HOTELS, RETAIL STRES, FACILITY TO INTEGRATE INTO FALSE CEILINGS OR IN CONTINUOUS LINES.

LAY-IN DARKLIGHT LOUVRE

- Reflective louvre made from highest-grade mirror-finish aluminium
- Mountable in reflector SLB-R T8 and SLB-R T8 L-PER without tools

Description	Art. Code
SLB-LD T8 36W	9090683
SLB-LD T8 58W	9090684

1x58W+R+LD

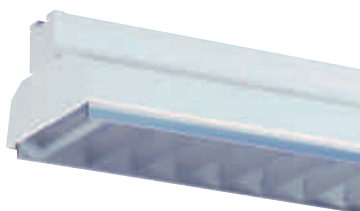
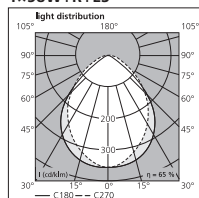


LAY-IN ALU-SATIN LOUVRE

- Mirror louvre in high-grade aluminium, high gloss anodized
- Controlled parabolic shaped side reflectors and cross blades.
- Mountable in reflector SLB-R T8 an SLB-R T8 L-PER without tools

Description	Art. Code
SLB-LS T8 36W	9090685
SLB-LS T8 58W	9090686

1x58W+R+LS

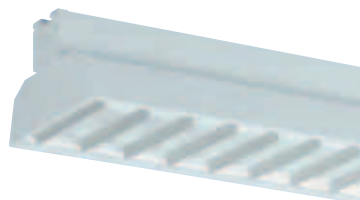
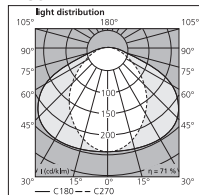


LAY-IN LOUVRE WHITE

- Louvre made from steel plate with white coating
- Mountable in reflector SLB-R T8 and SLB-R T8 L-PER without tools

Description	Art. Code
SLB-LW T8 36W	9090687
SLB-LW T8 58W	9090688

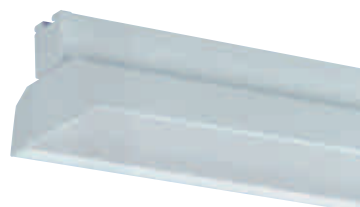
1x58W+R+LW



LAY-IN PRISMATIC PANEL

- Prismatic panel made from clear Plexiglass
- Prisms in accordance with lighting engineering calculations
- Mountable in reflector SLB-R T8 and SLB-R T8 L-PER without tools

Description	Art. Code
SLB-PP T8 36W	9090689
SLB-PP T8 58W	9090690



Sylvania SLB Trunking System

Gear Tray T8 Higher Protection

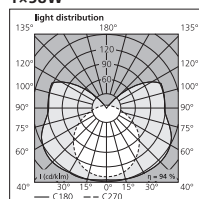
- INDUSTRIAL, TERTIARY OR COMMERCIAL SECTORS AND HOUSING, HOTELS, RETAIL STRES, FACILITY TO INTEGRATE INTO FALSE CEILINGS OR IN CONTINUOUS LINES.

GEAR TRAY SLB-T8 IP54

- Ageing-resistant rubber foam seal
- Made from steel plate galvanized on both sides
- White coating
- Easy mounting with quick locks
- Mechanical and electrical connection in one step

Light Source	NC	EB
T26 1/36W	9090657	9090661
T26 1/58W	9090658	9090662
T26 2/36W	9090659	9090663
T26 2/58W	9090660	9090664

1x58W

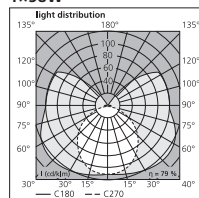


GEAR TRAY SLB-GT T8 IP54 FF (D)

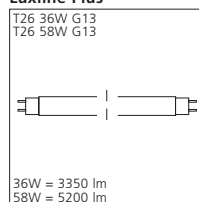
- Gear tray with protection tube
- Ageing-resistant rubber foam seal
- Made from steel plate galvanized on both sides
- White coating

Light Source	EB
T26 1/36W	9090665
T26 1/58W	9090666
T26 2/36W	9090667
T26 2/36W	9090668

1x58W



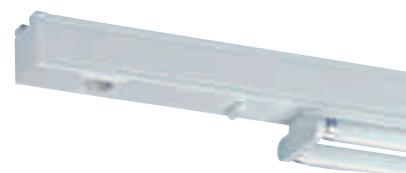
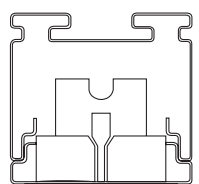
Luxline Plus



SOCKET MODULE

- Made from steel plate galvanized on both sides
- White coating

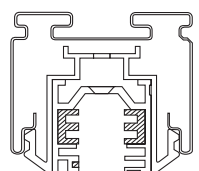
Light Source	Art. Code
SLB-Socket Module	9090691



TRACK MODULE

- Gear tray with integrated 3-circute track
- Made from steel plate galvanized on both sides
- White coating

Light Source	Art. Code
SLB-Track 1/36W	9090692
SLB-Track 1/58W	9090693



Sylvania SLB Trunking System

Mounting Accessories

- INDUSTRIAL, TERTIARY OR COMMERCIAL SECTORS AND HOUSING, HOTELS, RETAIL STORES, FACILITY TO INTEGRATE INTO FALSE CEILINGS OR IN CONTINUOUS LINES.

CEILING SUSPENSION

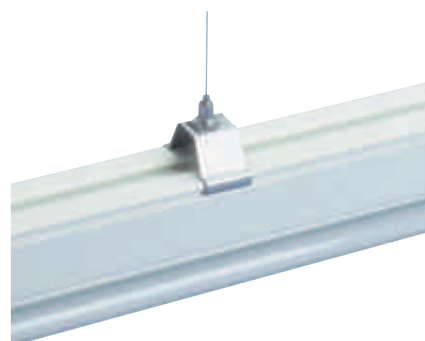
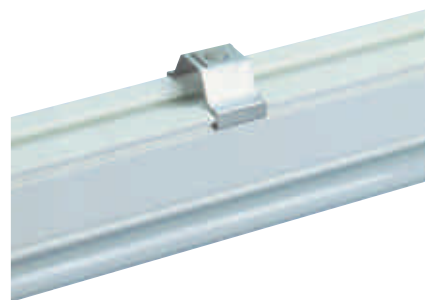
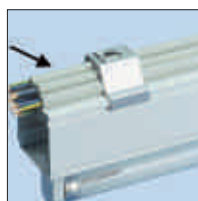
- Stainless steel
- Additional channel above for supply cables
- Mountable without tools on the rail
- Can be combined with caddy-clip

Description

SLB-SM

Art. Code

9090696



STEEL CORD SUSPENSION SET

- Height adjustable with cable glider
- Including 1500mm cord
- Stainless steel
- Additional channel above for supply cables
- Mountable without tools on the rail

Description

SLB-SSC 1500

Art. Code

9090695

SUSPENSION HOOK

- Hook for chain or cord
- Micro-height adjustable approximately 20mm
- Stainless Steel
- Additional channel above for supply cables
- Mountable without tools, on the rail
- Knotted chain galvanized, holds 25kg
- Steel cable drop with suspension eye for ceiling-hook or luminaire suspension



Description

SLB-SC

Art. Code

9090710

SLB-C 30m (Chain)

9090715

SLB-Steel Cord 750

9090716

SLB-Steel Cord 1000

9090717

SLB-Steel Cord 1500

9090718

SLB-Steel Cord 2000

9090719

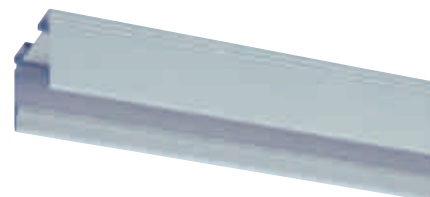
Sylvania SLB Trunking System Accessories

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UNIVERSAL TRUNKING WITHOUT WIRING

- Universal track for connection of individual luminaires
- Made from steel plate galvanized on both sides
- White coating
- Trunking coupler to order separate

Description	Art. Code	Length in mm
2 Length	9090712	3120
3 Length	9090713	4680



TRACK COUPLER

- Galvanized steel plate
- With steel claw spring action for the safe and quick connection
- Mountable without tools on the rail

Description	Art. Code
SLB-TC	9090694



BLIND COVER PLASTIC

- Blind cover plate for installation without tools by steel spring clips (5 pieces = length 58 W) on trunking SLB-TS
- Easily cut to any size



BLIND COVER METAL

- Blind cover available for IP20 and IP54
- Blind cover plate in white coated steel plate galvanized on both sides
- Easy mounting with quick locks



PLASTIC

Description	Art. Code
SLB-BC 58P	9090697

METAL

Description	IP20	IP54
SLB-BC 36M	9090705	9090707
SLB-BC 58M	9090706	9090708

LUMINAIRE FASTENER

- Luminaire bracket (2 pieces are required per luminaire) for fixing surface mounted and waterproof-diffuser luminaires

Description	Art. Code
SLB-UT LF	9090714







Sylproof 2
454



Sylfog
462



PST
468

Sylproof 2
Sylfog
PST

High Protection

Sylvania

Sylproof 2

- Underground car parks
- Storage areas
- Industrial areas
- Covered under canopy applications
- Ceiling or suspension mounting
- Long lasting, high grade materials; polyurethane seals, stainless steel closures, grey housing and diffusers made from high quality plastics
- Flat upper housing surfaces
- Diffusers with internal prism system for even light distribution
- Push/push stainless steel clips



Car Parks

- CO₂ pollution
- Shocks
- Humidity



Storage

- Dust
- Impacts



Industrial

- Grease
- Chemical emissions
- Food production

A range of water resistant luminaires providing protection against water, dust, chemicals and grease.

Sylproof Pro 2 - the all round solution with polycarbonate housing.

Sylproof Pro 2 RAPID - the solution for fast mounting with polycarbonate housing.

Sylproof CAP 2 - the solution for special applications with glassfibre reinforced polyester housing.



Sylproof PRO 2



Sylproof CAP 2



Sylproof Pro 2 Rapid



Sylproof Accessories



Sylvania Sylproof Pro 2

Acrylic Diffuser

- COVERED CAR PARKS
- WAREHOUSES
- WORKSHOPS
- INDUSTRIAL PREMISES

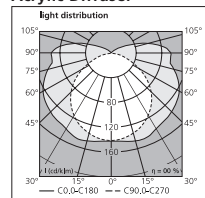
- Moisture and Dust Protection to IP65
- Polycarbonate housing with acrylic diffuser with internal prism system
- Surrounding seal made from polyurethane
- New 'push push' stainless steel clips for convenient access during maintenance
- T8 versions, high frequency electronic or magnetic ballast or T5 energy efficient electronic ballast
- Newly developed interchangeable gear tray holding clips



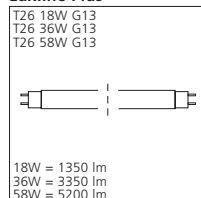
* for electronic ballast version only



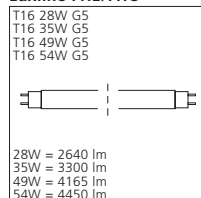
Acrylic Diffuser



Luxline Plus



Luxline FHE/FHO



Wattages	B2 Ballast		A2 Ballast		DFF***
	LOR*	UTE**	LOR*	UTE**	
1x18	72%	0,61G+0,10T	67%	0,58G+0,09T	86%
1x36	74%	0,63G+0,11T	70%	0,60G+0,10T	86%
1x58	72%	0,60G+0,12T	69%	0,58G+0,11T	85%
2x36	64%	0,58G+0,06T	66%	0,59G+0,06T	90%
2x58	61%	0,55G+0,06T	62%	0,56G+0,06T	90%
1x28			82%	0,72G+0,10T	88%
1x35			80%	0,71G+0,09T	89%
2x28			75%	0,67G+0,08T	89%
2x35			75%	0,64E+0,07T	90%
1x54			79%	0,69G+0,09T	88%
2x54			66%	0,58G+0,08T	88%
2x49			68%	0,60G+0,07T	89%

* Light Output Ratio working

** Union Technique de l'électricité

*** Downward Flux Fraction

WITH ACRYLIC DIFFUSER

Light Source	Magnetic gear (B2) NC** PC**		Electronic control gear (A2)	Electronic control gear (A1) Analogue dimmable (1-10V)	Magnetic gear (B2) PC** with through wiring***	Magnetic gear (B2) PC** Equipped***
T26 1x18W G13	0045700	0045705	0045710		0045739	
T26 1x36W G13	0045701	0045706	0045711	0045768	0045740	
T26 1x58W G13	0045702	0045707	0045712	0045769	0045741	
T26 2x36W G13	0045703	0045708	0045713	0045770	0045742	0045848
T26 2x58W G13	0045704	0045709	0045714	0045771	0045743	0045849
T16 1x28W G5			0045809			
T16 1x35W G5			0045810			
T16 1x54W G5			0045811			
T16 2x28W G5			0045802	0045814		
T16 2x35W G5			0045803	0045815		
T16 2x49W G5			0045785	0045787		
T16 2x54W G5			0045786	0045788		

T5 (Ø 16mm) lamp versions in 1 lamp body size, except 2x54W

* Non-compensated

** Parallel-compensated

*** 1 lamp with through wiring 5x1.5mm²

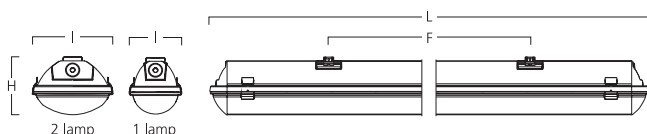
2 lamp with through wiring 5x2.5mm²

Technical data

- Low loss ballast (B2): 230/50Hz
- High frequency ballast (A2 & A1): 220-240V/50Hz/60Hz
- For ambient temperatures -20°C to +25°C with magnetic ballast
- 0°C to 25°C with electronic control gear
- 3-way automatic terminal block (for cross-sections up to 2.5mm²)
- T5 (Ø16mm) lamp versions in 1 lamp body size, except 2x54W

DIMENSIONS (MM)

Lamp	L	I	H	F	Weight (kg)	
					Magnetic. Gear(B2)	Electronic Gear
1x18	668	94	104	340	1.7	1.6
1x36/28/54 - 2x28	1276	94	104	850	2.5	2.2
1x58/35/49 - 2x35/49	1576	94	104	850	3.4	2.7
2x28	1276	94	104	850		2.2
2x35	1576	94	106	850		2.7
2x36/54	1276	144	106	850	3.9	3.3
2x58	1576	144	106	850	5.4	5.9



Sylvania Sylproof Pro 2

PMMA & Polycarbonate Diffuser

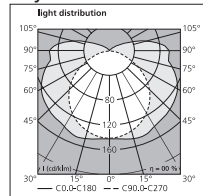
- COVERED CAR PARKS
- WAREHOUSES
- WORKSHOPS
- INDUSTRIAL PREMISES

- Moisture and Dust Protection to IP65
- Polycarbonate housing with UV stabilised polycarbonate diffuser, polyurethane seal gasket. Impact resistance to IK07
- New 'push push' stainless steel clips for convenient access during maintenance
- Newly developed interchangeable gear tray holding clips
- T8 versions, high frequency electronic or magnetic ballast, or T5 energy efficient electronic ballast

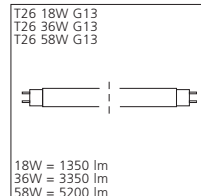


* for electronic ballast version only

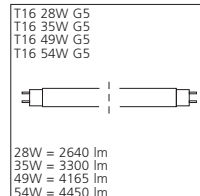
Polycarbonate Diffuser



Luxline Plus



Luxline FHE/FHO



Wattages	B2 Ballast		A2 Ballast		DFF***
	LOR*	UTE**	LOR*	UTE**	
1x36	76%	0,64G+0,12T	71%	0,61G+0,10T	86%
1x58	73%	0,61G+0,12T	70%	0,59G+0,11T	84%
2x36	67%	0,60G+0,06T	67%	0,61G+0,07T	90%
2x58	63%	0,57G+0,06T	64%	0,57G+0,06T	90%

* Light Output Ratio working

** Union Technique de l'électricité

*** Downward Flux Fraction

WITH POLYCARBONATE DIFFUSER

Light Source	Magnetic gear(B2) NC PC		Electronic control gear gear (A2)	Electronic control gear (A1) Analogue dimmable (1-10V)	Electronic control gear (A2) with Fuse (3A) 1h duration	Electronic control gear (A2) Emergency 3h duration	
T26 1x18W G13	0045690	0045715	0045763		0045917		
T26 1x36W G13	0045691	0045716	0045764	0045772	0045918	0045781	0045777
T26 1x58W G13	0045692	0045717	0045765	0045773	0045919	0045782	0045778
T26 2x36W G13	0045693	0045718	0045766	0045774		0045783	0045779
T26 2x58W G13	0045694	0045719	0045767	0045775		0045784	0045780
T16 1x28W G5			0045806				
T16 1x35W G5			0045807				
T16 1x54W G5			0045808				
T16 2x28W G5			0045800	0045812		0045816	0045804
T16 2x35W G5			0045801	0045813		0045817	0045805
T16 2x49W G5			0045790	0045792		0045794	0045796
T16 2x54W G5			0045791	0045793		0045795	0045797

T5 (Ø 16mm) lamp versions in 1 lamp body size; except 2x54W

* Non-compensated

*** 1 lamp with through wiring 5x1.5mm²

** Parallel-compensated

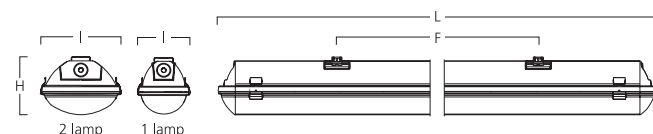
2 lamp with through wiring 5x2.5mm²

Technical data

- Low loss ballast (B2): 230/50Hz
- High frequency ballast (A2 & A1): 220-240V/50Hz/60Hz
- For ambient temperatures -20°C to +25°C with magnetic ballast
0°C to 25°C with electronic control gear
- 3-way automatic terminal block (for cross-sections up to 2.5mm²)
- T5 (Ø16mm) lamp versions in 1 lamp body size, except 2x54W

DIMENSIONS (MM)

Lamp	L	I	H	F	Weight (kg)	
					Magnetic. Gear(B2)	Electronic Gear
1x18	668	94	104	340	1.7	1.6
1x36/28/54 - 2x28	1276	94	104	850	2.5	2.2
1x58/35/49 - 2x35/49	1576	94	104	850	3.4	2.7
2x28	1276	94	104	850		2.2
2x35	1576	94	106	850		2.7
2x36/54	1276	144	106	850	3.9	3.3
2x58	1576	144	106	850	5.4	5.9



Sylvania Sylproof Pro 2

Rapid

- COVERED CAR PARKS
- WAREHOUSES
- WORKSHOPS
- INDUSTRIAL PREMISES

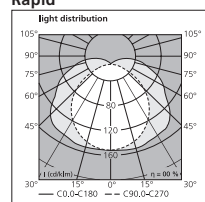
- Fully equipped ready to mount version of Sylproof Pro 2
- Supplied with light colour 840 fluorescent lamps, in 1 or 2 lamp versions
- Supplied with integrated single or double quick connector
- UV stabilised polycarbonate diffuser with internal prism for high light output
- High frequency electronic or magnetic ballast
- 1 lamp through wiring 3x1.5mm², 2 lamps through wiring 3x2.5mm²



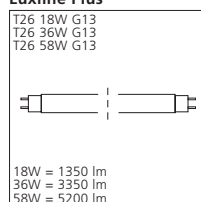
* for electronic ballast version only



Rapid



Luxline Plus



WITH POLYCARBONATE DIFFUSER

SINGLE SIDED QUICK CONNECTOR

Light Source	Magnetic gear(B2) (PC*)	Electronic control gear(A2)
T26 1x36W G13	0045639	0045643
T26 1x58W G13	0045641	0045645
T26 2x36W G13	0045640	0045644
T26 2x58W G13	0045642	0045646

* Parallel-compensated

Luminaire supplied completely fitted with lamps in light colour 840.

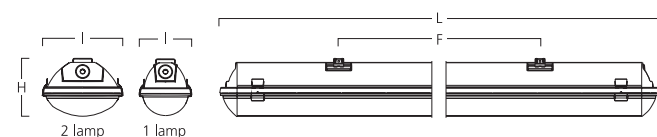
DOUBLE SIDED QUICK CONNECTOR

T26 1x36W G13	0045647	0045651
T26 1x58W G13	0045649	0045653
T26 2x36W G13	0045648	0045652
T26 2x58W G13	0045650	0045654

Luminaire supplied completely fitted with lamps in light colour 840. 2 lamp luminaires are delivered with through wiring 3x2.5mm². 1 lamp luminaires are supplied with through wiring 3x1.5mm²

Technical data

- Low loss ballast (B2): 230/50Hz
- High frequency ballast (A2 & A1): 220-240V/50Hz/60Hz
- For ambient temperatures
-20°C to +25°C with magnetic ballast
0°C to 25°C with electronic control gear



PMMA

Wattages	B2 Ballast		A2 Ballast		DFF***
	LOR*	UTE**	LOR*	UTE**	
1x18	77%	0,66G+0,11T	72%	0,62G+0,09T	86%
1x36	78%	0,66G+0,12T	74%	0,63G+0,10T	86%
1x58	75%	0,63G+0,12T	72%	0,60G+0,11T	84%
2x36	69%	0,62G+0,06T	69%	0,63G+0,07T	90%
2x58	65%	0,59G+0,06T	65%	0,59G+0,07T	90%
1x28			86%	0,75G+0,11T	88%
1x35			83%	0,73G+0,10T	88%
2x28			78%	0,70G+0,08T	89%
2x35			75%	0,67E+0,08T	90%
1x54			83%	0,73G+0,10T	88%

POLYCARBONATE

Wattages	B2 Ballast		A2 Ballast		DFF***
	LOR*	UTE**	LOR*	UTE**	
1x18	75%	0,64G+0,11T	70%	0,60G+0,10T	86%
1x36	76%	0,64G+0,12T	71%	0,61G+0,10T	86%
1x58	73%	0,61G+0,12T	70%	0,59G+0,11T	84%
2x36	67%	0,60G+0,06T	67%	0,61G+0,07T	90%
2x58	63%	0,57G+0,06T	64%	0,57G+0,06T	90%
1x28			84%	0,74G+0,10T	88%
1x35			81%	0,71G+0,10T	88%
2x28			76%	0,68G+0,08T	89%
2x35			73%	0,65E+0,08T	90%
1x54			81%	0,71G+0,10T	88%
2x54			70%	0,61G+0,09T	88%
2x49			71%	0,62G+0,09T	88%

* Light output ratio working

** Union technique de l'électricité

*** Downward flux fraction

Connected instantly



Mounting is made fast and effortless with integrated quick connector fitted as standard.

DIMENSIONS (MM)

Lamp	L	I	H	F	Weight (kg)	
					Magnetic. Gear(B2)	Electronic Gear
1x36	1276	94	104	850	2.7	2.4
1x58	1576	94	104	850	3.6	2.9
2x36	1276	144	106	850	4.3	3.7
2x58	1576	144	106	850	5.8	6.3

Per quick connector add 15mm to total length L.

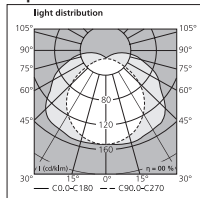
- Designed for protection against chemicals (see attached chemical resistance chart, page 460)
- Body made of extremely resistant glass fibre reinforced polyester (SMC)
- Diffuser made of high-grade polymethylmethacrylate (PMMA) with internal prism system
- New 'push push' stainless steel clips for convenient access during maintenance
- Newly developed interchangeable gear tray holding brackets
- T8 versions, HF and magnetic gear



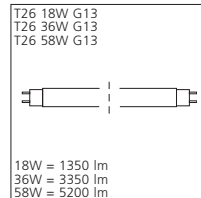
* for electronic ballast version only



SYLPROOF PRO 2 Caps



Luxline Plus



Wattages	B2 Ballast		A2 Ballast		DFF***
	LOR*	UTE**	LOR*	UTE**	
1x18	77%	0,66G+0,11T	72%	0,62G+0,09T	86%
1x36	78%	0,66G+0,12T	74%	0,63G+0,10T	86%
1x58	75%	0,63G+0,12T	72%	0,60G+0,11T	84%
2x36	69%	0,62G+0,06T	69%	0,63G+0,07T	90%
2x58	65%	0,59G+0,06T	65%	0,59G+0,07T	90%

WITH PMMA DIFFUSER (EMERGENCY VERSIONS WITH POLYCARBONATE DIFFUSER)

T8 (Ø 26 MM) FLUORESCENT LAMPS

Light Source	Magnetic gear(B2) NC*	PC**	SC*****	Electronic control gear(A2)	Emergency*** gear (B2) PC** 1h duration	Magnetic Electronic (A2) 1h duration	Magnetic gear (B2) PC** with through wiring***	Electronic control gear (A2) with through wiring***
T26 1x18W G13	0045920	0045926		0045932				
T26 1x36W G13	0045921	0045927	0045960	0045933	0045675	0045679		
T26 1x58W G13	0045922	0045928	0045961	0045934	0045677	0045681		
T26 2x36W G13	0045924	0045930	0045963	0045936	0045676	0045680	0045981	0045983
T26 2x58W G13	0045925	0045931	0045964	0045937	0045678	0045682	0045982	0045984

* Non-compensated

** Parallel-compensated

*** On 2-lamp versions-only 1-lamp with emergency function

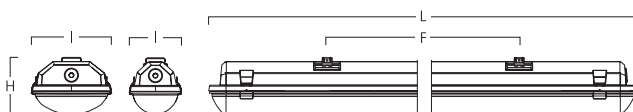
**** 1 lamp with through wiring 5x1.5mm²

2 lamp with through wiring 5x2.5mm²

***** Serial-compensated

Technical data

- Low loss ballast (B2) : 230/50Hz
- High frequency ballast (A2 & A1): 220-240V/50Hz/60Hz
- For environmental temperatures
-20°C to +25°C with magnetic ballast
0°C to 25°C with electronic control gear
- 3-way automatic terminal block (for cross-sections up to 2.5mm²)



DIMENSIONS (MM)

Lamp	L	I	H	F	Weight (kg)	
					Magnetic. Gear(B2)	Electronic Gear
1x18W	666	94	101	340	1.7	1.6
1x36W	1276	94	101	850	2.6	2.3
1x58W	1576	94	101	850	3.6	2.9
2x36W	1276	144	103	850	4.1	3.5
2x58W	1576	144	103	850	5.6	4.0

RESISTANCE TO CHEMICALS AND CORROSIVE AGENTS

The table on the right shows the effect of various chemicals and corrosive agents on the different types of plastic used.

Resistant	• • •
Semi-resistant	• •
Non-resistant	•

This information should only be used as a guide. The true chemical compatibility can only be determined under the actual conditions in the final application. Please contact your local representative if any additional information is required.

Channel mounting/ feed-through wiring:

When the luminaires are mounted in channels, take care not to use normal shroud cable as through wiring. Softening agents will migrate from the cable and harm the plastic parts of the luminaire.

Please note:

The luminaires cannot be used near chemical substances or vehicle exhausts (e.g. oil, petrol, petrol derivatives, liquid acids) because they could adversely affect/degrade some of the raw materials used.

SYLPROOF	CAP2* Polyester and fiberglass + PMMA	PRO2 Polycarbonate + Acrylic	PRO2 100% Polycarbonate	RAPID 100% Polycarbonate
Ammonia	•	•	•	•
Acetic acid 5%	• • •	•	• • •	• • •
Acetic acid 10%	• • •	• •	• •	• •
Acetic acid 30%	•	•	•	•
Alcohol<30%	• • •	• • •	• • •	• • •
Aluminium chloride	• • •	•	•	•
Aluminium sulfate	• •	• •	• •	• •
Ammonium nitrate	•	• • •	• • •	• • •
Ammonium phosphate 10%	• • •	• • •	• • •	• • •
Boric acid	• • •	• • •	• • •	•
Carbon dioxide	• • •	• • •	• • •	• • •
Carbon monoxide	• • •	• • •	• • •	• •
Carbon tetrachloride	• • •	•	•	•
Caustic soda<2%	• •	•	•	•
Ether	• • •	•	•	•
Formic acid 10%	•	• •	• •	•
Gallic acid	• • •	•	•	•
Glycerin	• • •	•	•	•
Hydrocarbon	• •	• •	• • •	• • •
Hydrochloric acid	• •	•	•	•
Hydraulic oil	• • •	•	•	•
Kerosene	• • •	•	•	•
Lactic acid	• •	• •	• •	• •
Linseed oil	• • •	•	•	•
Lubricating oil	• • •	•	•	•
Mineral spirit	• • •	•	•	•
Nitric acid 10%	•	• •	• •	• •
Perhydrol (hydrogen peroxide)	• • •	• • •	• • •	•
Petroleum	• • •	• •	• •	• •
Phenol	•	•	•	•
Seawater	• •	• •	• •	• •
Sodium chloride	• • •	•	•	•
Sodium hydroxide 10%	•	•	•	•
Sulphuric acid 37.5%-Battery	• •	• • •	• • •	•
Turpentine	• • •	•	•	•
Vegetable oils	• • •	•	•	•
Xylene	• • •	•	•	•

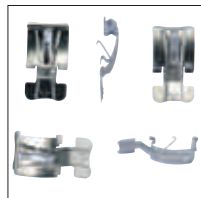
* Not valid SYLPROOF CAP2 emergency luminaires with polycarbonate diffuser.

- COVERED CAR PARKS
- WAREHOUSES
- WORKSHOPS
- INDUSTRIAL PREMISES

**Quick connector
(1 pc.)**
Order code 5045979



**Push/push clips
(1 set = 10 pcs.)**
Order code 5045837



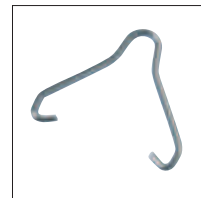
**Grommet for quick
connector (1 pc.)**
Order code 5045980



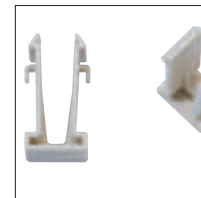
**Grommet
(1 set = 10 pcs.)**
Order code 5045843



**Suspension hooks
(1 set = 50 pcs.)**
Order code 5045842



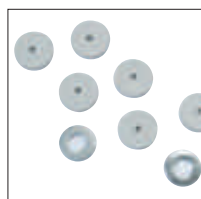
**Gear tray clips
(1 set = 2 pcs.)**
Order code 5045838



**Cable gland
(1 pc.)**
Order code 5045840



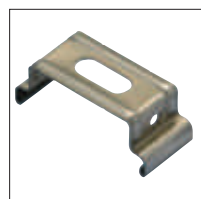
**Ceiling mounting set
(1 set)**
Order code 5045841



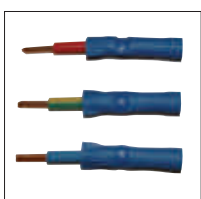
**Flexible tube
(1 pc.)**
Order code 9056757



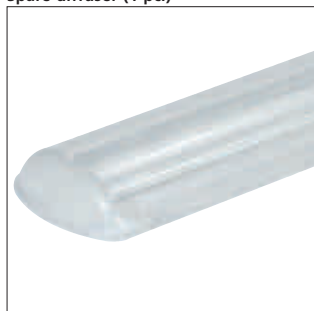
**Snap-on ceiling bracket
(1 set = 2 pcs.)**
Order code 5045839



**Flexible Wire Connection Kit
(1 set = 3 connectors)**
Order code 5045844



Spare diffuser (1 pc.)



SYLPROOF PRO2 RAPID, PRO2, MATERIAL POLYCARBONATE

Light Source	Art. Code
1x18W	5045818
1x36W/2x28W/1x54W/1x28W	5045819
1x58W	5045820
2x36W	5045821
2x58W	5045822

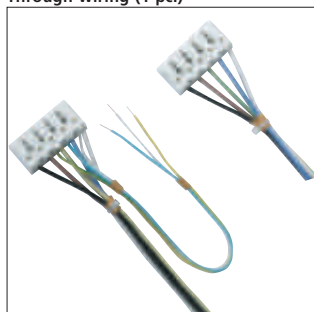
SYLPROOF PRO2 MATERIAL ACRYLIC

Light Source	Art. Code
1x18W	5045823
1x36W	5045824
1x58W	5045825
2x36W	5045826
2x58W	5045827

PMMA

Light Source	Art. Code
1x18W	5045970
1x36W	5045971
1x58W	5045972
2x36W	5045973
2x58W	5045974

Through wiring (1 pc.)



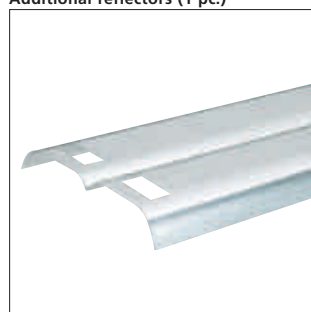
5x1.5MM²

Light Source	Art. Code
1x18W	5045832
1x58W 1x36W/28W/54W	5045833
2x36W 1x58W/35W	5045834

5x2.5MM²

Light Source	Art. Code
2x36/28W /54W	5045835
2x58/35W /49W	5045836

Additional reflectors (1 pc.)



Light Source	Art. Code
1x36W	5056750
1x58W	5056752
2x36W	5056751
2x58W	5056753

Sylvania

Sylfog

- Completely waterproof
- Optimised photometry
- Double insulation class II
- Specific models for various applications

Closed body in glass fibre reinforced polyester.
Silicon waterproof gasket.
End cap support lamp holders with waterproof grommet.
Wide hatches allow easy access to the terminal blocks.
Fixing brackets in stainless steel.

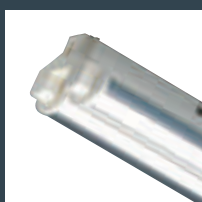
Fixed simply by clipping the body onto two variable inter-axis brackets. Electrical connection through one end by waterproof grommet and access hatch.
Through-wiring through waterproof grommets at each end of the luminaire Cable gland available.
Easy replacement of the lamps by direct insertion without rotation. Access to starter directly through hatch.



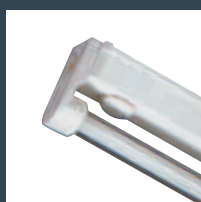
Moisture Proof Batten



Optics for Moisture proof Batten



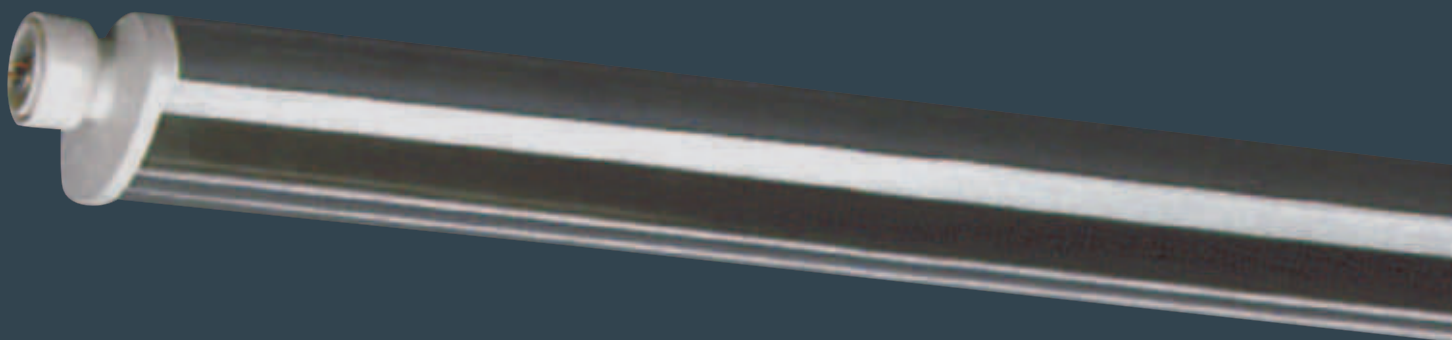
Low/Very Low Temperature



High Temperature (+60°)



Tabular Luminaire IP68



Sylvania Sylfog

Moisture Proof Batten

- LIGHTING OF PREMISES PRONE TO HUMID, DUSTY OR CORROSIVE CONDITIONS, FOR EXAMPLE UNDER CANOPIES, WASHING AREAS, UNDERGROUND PASSAGEWAYS

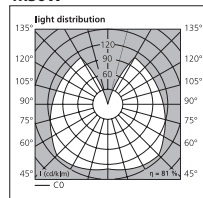
- Glass fibre-reinforced polyester body (GRP) Protection Tube in PC or PMMA
- Clipped T5/16mm threaded ring lampholder
- Mounting clip made of stainless steel, with variable mounting points
- Through-wiring 2x1,5 mm²
- Temperature -5 to 25 °C
- Suitable for ceiling, pendant and horizontal wall mounting



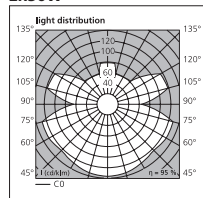
* with tube TM ** with tube TP *** Simple Version



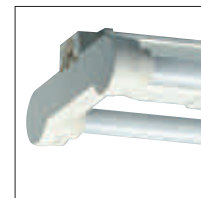
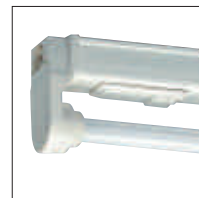
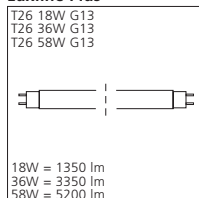
1x36W



2x36W



Luxline Plus



SYLFOG FIXTURE

Light Source	A2 Ballasts	B2 Parallel compensated	B2 Non compensated
T26 1x18W G13	5042044		5042000
T26 1x36W G13	5042045	5042001	
T26 1x58W G13	5042046	5042002	
T26 2x18W G13	5042047		5042003
T26 2x36W G13	5042048	5042004	
T26 2x58W G13	5042049	5042005	

ACCESSORY

Light Source	B2 Non compensated
Dia 26 mm protective collar	5042029
ø38 mm protective collar	5042030
Dia 50 mm protective collar	5042031
X2 protective collars needed per lamp	

PROTECTION TUBE (METHACRYLATE)

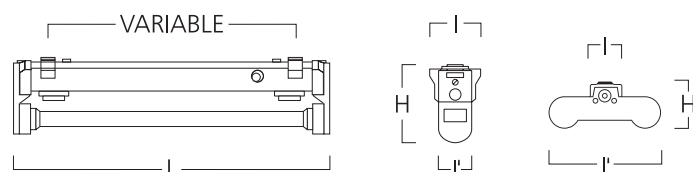
Description	Art. Code
18W	5042032
36W	5042034
58W	5042035

Example of order

Sylfog 2x36 W with methacrylate protection tube:
Sylfog 2x36W 5042004
Methacrylate protection tube 36W (2x) 5042034
ø50 mm protective collar (4x) 5042031

PROTECTION TUBE (POLYCARBONATE)

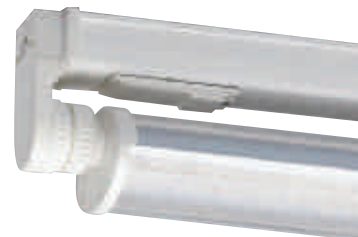
Description	Art. Code
18W	5042036
36W	5042037
58W	5042038



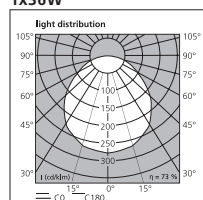
DIMENSIONS (MM)

Lamp	L	I	I'	H	Heaviest weight (kg)
1x18	628	77	59	139	2.1
1x36	1238	77	59	139	2.8
1x58	1538	77	59	139	3.5
2x18	628	77	217	80	2.9
2x36	1238	77	217	80	4.4
2x58	1538	77	217	80	5.3

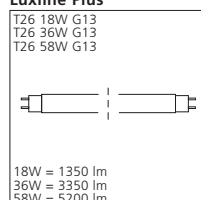
- Protection Tube in clear PC or PMMA
- With centering and retaining springs
- RPM or RPP ribbed prismatic internal
- HRM or HRP with internal mirror reflector wide and narrow beam



1x36W



Luxline Plus



PARABOLIC TUBE WITH INTERNAL REFLECTOR (RPM)

Light Source	
T26 18W G13	5056699
T26 36W G13	5056680
T26 58W G13	5056681

PARABOLIC TUBE WITH INTERNAL REFLECTOR (RPP)

Light Source	
T26 18W G13	5056700
T26 36W G13	5056701
T26 58W G13	5056702

Example of order

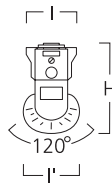
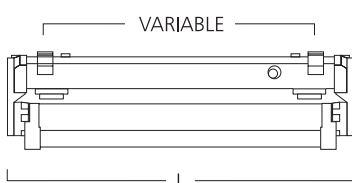
Sylfog with methacrylate protection tube:	
Sylfog 1x36W (product page 464)	5042045
Reflector RPM 36W (1x)	5056680
ø38 mm protective collar (2x)	5042030

PARABOLIC TUBE + HIGH OUTPUT INT. REFLECTOR (HRM)

Description	Narrow	Wide
T26 18W G13	5056703	5056706
T26 36W G13	5056704	5056707
T26 58W G13	5056705	5056708

PARABOLIC TUBE + HIGH OUTPUT INT. REFLECTOR (HRP)

Description	Narrow	Wide
T26 18W G13	5056709	5056712
T26 36W G13	5056710	5056713
T26 58W G13	5056711	5056714



WITH REFLECTOR TUBE RPM + RPP

Wattages	LOR	UTE	DFF
1x18	73%	0.73D	100%
1x36	73%	0.73D	100%
1x58	73%	0.73D	100%
2x18	76%	0.76D	100%
2x36	76%	0.76D	100%
2x58	76%	0.76D	100%

WITH REFLECTOR TUBE HRM + HRP INTENSIVE

Wattages	LOR	UTE	DFF
1x18	81%	0.81C	100%
1x36	81%	0.81C	100%
1x58	81%	0.81C	100%
2x18	81%	0.81C	100%
2x36	81%	0.81C	100%
2x58	81%	0.81C	100%

WITH REFLECTOR TUBE HRM + HRP EXTENSIVE

Wattages	LOR	UTE	DFF
1x18	76%	0.76C	100%
1x36	76%	0.76C	100%
1x58	76%	0.76C	100%
2x18	76%	0.76C	100%
2x36	76%	0.76C	100%
2x58	76%	0.76C	100%

DIMENSIONS (MM)

Lamp	L	I	I'	H	Heaviest weight (kg)
1x18	628	77	105	160	2.1
1x36	1238	77	105	160	3.1
1x58	1538	77	105	160	4.4
2x18	628	77	260	100	3.1
2x36	1238	77	260	100	5.3
2x58	1538	77	260	100	6.9

Sylvania Sylfog / Sylfog TS

Low (-25°C) / Very Low Temperature (-50°C) / High Temperature (+60°C)

- FOR PREMISES SUBJECTED TO CONSTRAINTS OF HUMIDITY AND/OR DUST, IN MINIMUM TEMPERATURES FROM -10°C TO -50°C, FOR SYLFOG
- HIGH TEMPERATURES FOR SYLFOG TS

Sylfog:

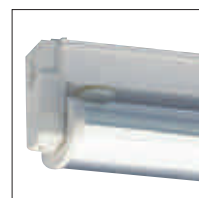
- High luminous efficiency, adjustable, closed specular reflectors
- Glass fibre-reinforced polyester body (GRP)
- Through-wiring 3x1,5 mm²
- Operates in temperatures down to -50°C

Sylfog TS:

- Glass fibre-reinforced polyester body (GRP) Protective tubes in silicate glass resistant to acids and detergents
- Completely waterproof and consistent optical performance
- Operates in temperatures up to +60°C



Sylfog TS +60°C



Sylfog -25°C:



Sylfog -50°C

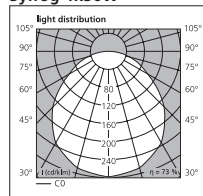


Sylfog -25°C:
one polycarbonate ø50 mm internal protective tube, compensated electrical equipment and starter for standard 36W or 58W lamps.

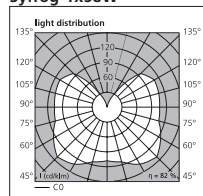


Sylfog -50°C:
one silicate glass ø38 mm internal tube, and a ø50 mm internal polycarbonate protective one, electrical equipment and starter for standard 36W and 58W lamps.

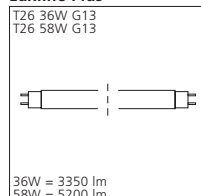
Sylfog 1x36W



Sylfog 1x58W



Luxline Plus



SYLFOG B2 BALLASTS

Light Source	-25°C Parallel comp.	-50°C Non comp.	-40°C Parallel comp.
T26 1x36W G13	5042039	5042041	
T26 1x58W G13	5042040	5042042	
T26 2x58W G13	5042051		5042050

SYLFOG TS B2 BALLASTS

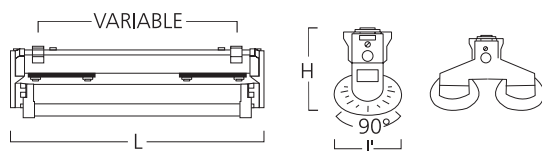
Light Source	Non compensated
T26 1x36W G13	5042022
T26 1x58W G13	5042023

SYLFOG

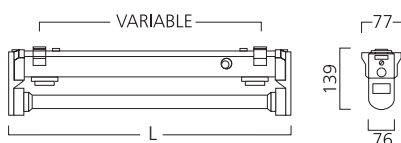
Wattages	LOR	UTE	DFF
1x18	73%	0.73D	100%
1x36	73%	0.73D	100%

SYLFOG TS

Wattages	LOR	UTE	DFF
1x36	82%	0.54G+ 0.28T	66%
1x58	82%	0.54G+ 0.28T	66%



Sylfog -25°C/-50°C



Sylfog TS +60°C

DIMENSIONS (MM)

Lamp	L	I	I'	H	Heaviest weight (kg)
1x36	1270	77	106	160	3.8
1x58	1570	77	106	160	4.9
2x58	1570	77	280	160	9.5

SYLFOG RPM -50°C

1x36	1270	77	106	160	6.2
1x58	1570	77	106	160	7.2
2x58	1570	77	280	160	9.5

SYLFOG TS +60°C

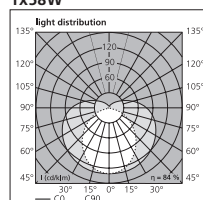
1x36	1270	77	76	139	3.7
1x58	1570	77	76	139	4.8

- GARAGES, MAINTENANCE AREAS
- WORK PITS, INDUSTRY, CAR WASHES
- MUSHROOM FARMS
- ARCHITECTURAL LIGHTING

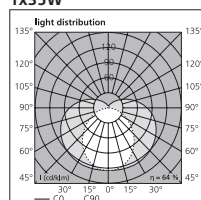
- Water resistant depths down to 25 meter Resistant to water pressure Resistance against oils
- Opal PMMA optic with anodized aluminium reflector for 180° lighting distribution
- Bayonet fix ends for easy maintenance and installation
- For T8 or T5 lamps



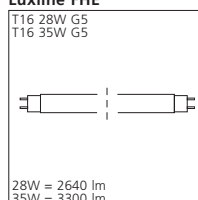
1x58W



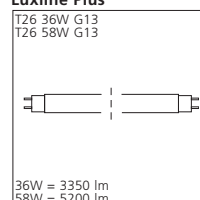
1x35W



Luxline FHE



Luxline Plus



Wattages	LOR	UTE	DFF
1x28	84%	0.69G+ 0.16T	81%
1x35	84%	0.69G+ 0.16T	81%
1x36	64%	0.51G+ 0.13T	80%
1x58	64%	0.51G+ 0.13T	80%

A2 BALLASTS

Light Source	Art. Code
T16 1x28W G5	5042062
T16 1x35W G5	5042063
T26 1x36W G13	5042060
T26 1x58W G13	5042061

Other configurations using clear polycarbonate tube with either transparent or aluminium gear available on request.

Product Description

Tubular housing in PO (impact resistant PMMA), completely sealed, largely resistant against acid and alkaline solutions. Sliding gear tray in extruded aluminium. End caps in white PBTP polyester including a transparent silicone gasket. M20 cable gland supplier on one side (opposite with a grommet). Stainless steel fixing clips included. For further details, please refer to our chemical chart on page 240.

Electrical components

A2 electronic ballast 220-240 V 50/60 Hz

Installation

Suitable for ceiling mounting, pendant, horizontal or vertical wall mounting. Variable fixing centres using fixing clips.

Light distribution

180°. 360° on request using a transparent gear tray.

On request

Dimmable electronic ballast, grid, reflector (aluminium high-gloss anodised). Polycarbonate or glass housings, through-wiring versions max 6 x 1, 5 mm².



T8 and T5 versions



Quick lock with 90 degree turn



Easy lamp replacement via spring loaded socket



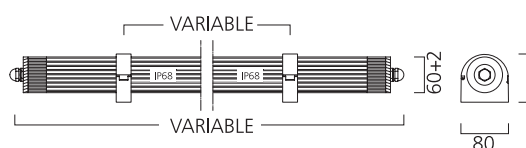
Corrosion resistant fixing clips included



Pendant suspension with stainless steel wire



White Bayonet fix ends for ease of installation IP68 cable entry gland



DIMENSIONS (MM)

Lamp	L	Heaviest weight (kg)
1x36	1895	3
1x58	2195	3
1x28	1844	3
1x35	2144	3

Sylvania

PST

- Waterproof batten
- Couple insulation class II
- Single and twin T8 versions

Housing and cover made of grey corrosion-resistant, moisture-proof and acid-resistant glass fibre-reinforced polyester. Non-ageing gasket. Externally accessible starter by removing a screw cap cover. Lamp holders waterproof sealed.

Used in rooms where dust is released, in damp and we locations, in areas affected by spray of vapours, stipulates usable (related on the concentration) diluted acids and alkalis, e.g. laundires, large-scale catering areas, chemical factories, shower rooms, slaughterhouses, greenhouses, etc. Please request details regarding durability and resistance if intended use involves exposure to extremely aggressive vapours.



Moisture proof batten



Optic for moisture proof batten



- LOGISTICS CENTRES AND WAREHOUSES
- UNDERGROUND GARAGES AND MULTI-STORY CAR PARKS
- INDUSTRIAL FACILITIES AND GARDENERS' AREAS

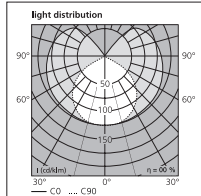
- Fibre-reinforced polyester body (GRP)
- Protection tube in PC
- Suitable for ceiling, pendant and horizontal wall mounting



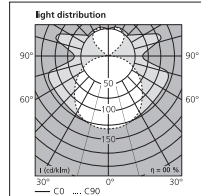
* with protective tube



1x36W

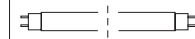


2x36W



Luxline Plus

T26 18W G13
T26 36W G13
T26 58W G13



18W = 1350 lm
36W = 3350 lm
58W = 5200 lm

Wattages	LOR
2x18	86%
1x36	89%
2x36	86%
1x58	89%
2x58	86%

A2 BALLASTS

Light Source	1-10V dimmable	
T26 1x18W G13	0040190	
T26 1x36W G13	0040191	0040196
T26 1x58W G13	0040192	0040197
T26 2x18W G13	0040193	
T26 2x36W G13	0040194	
T26 2x58W G13	0040195	

B2 BALLASTS

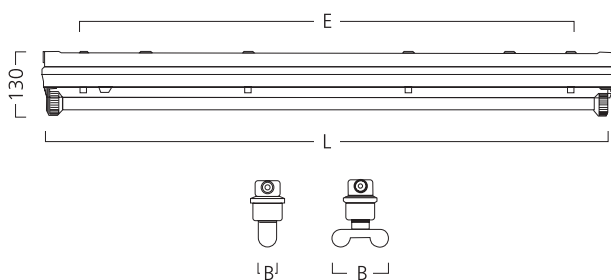
T26 1x18W G13	0040164
T26 1x36W G13	0040165
T26 1x58W G13	0040166
T26 2x18W G13	0040163
T26 2x36W G13	0040167
T26 2x58W G13	0040168

ACCESSORY

Description	Art. Code
Pair of suspension hooks	9083019



Suspension hooks



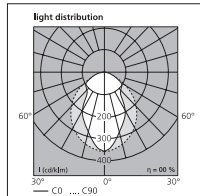
DIMENSIONS (MM)

Lamp	L	B	E	Heaviest weight (kg)
1x18	654	62	450	1.3
1x36	1266	62	800	1.9
1x58	1566	62	1100	2.5
2x18	654	126	450	2
2x36	1266	126	800	2.6
2x58	1566	126	1100	3.7

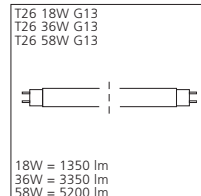
- Protection tube in clear PC
- With internal reflector



1x36W



Luxline Plus



PST PROTECTIVE

Polycarbonate protective tube

T26 1x18W G13	0040210
T26 1x36W G13	0040211
T26 1x58W G13	0040212

Collars for ø38 mm protective tube

Set for twin lamp version	0040216
Set for single lamp version	0040217

Polycarbonate back ground with internal aluminium reflector

T26 1x18W G13	0040213
T26 1x36W G13	0040214
T26 1x58W G13	0040215

Collars for ø38 mm aluminium reflector version

Set for twin lamp version	0040218
Set for single lamp version	0040219
Stainless-steel susp. set	0040220

Wattages	LOR
2x18	68%
1x36	68%
2x36	68%
1x58	68%
2x58	68%



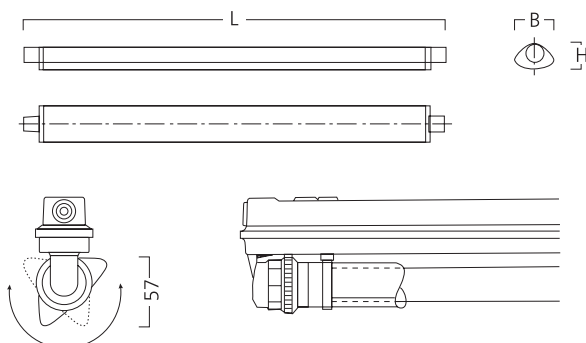
ø38 mm collar for protective tube



ø38mm collar for protective aluminium reflector

Example of order

PST 2x36W	0040194
Polycarbonate protective tube (2x)	0040211
Collars set	0040216



DIMENSIONS (MM)

Lamp	L	B	E	Heaviest weight (kg)
1x18	558	105	57	0.4
1x36	1168	105	57	0.8
1x58	1468	105	57	1





SBH-O
474



Alioth
478



Yaren
482

SHB-O
Alioth
Yaren

High Bay & Low Bay

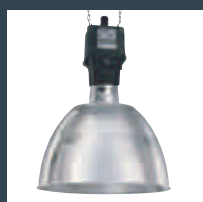
Sylvania

SBH-O & S

- Aluminium housing
- Resin-filled ballast housing
- Variety of lamp choices
- Easy installation

Die-cast aluminium body with easy wiring acces. Finished in black full powder coated polyester. Anodised aluminium reflectors. Toughened safety glass covers according to BS3193.

The SBH range offers a competitive high lighting solution for industrial environments requiring strong product resistance against either chemical agents or warm and dusty atmospheres. A special version for explosive areas is available on request.



SBH-O



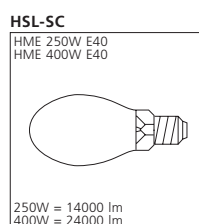
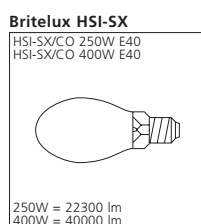
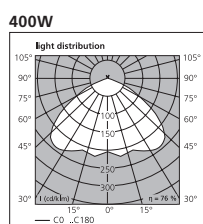
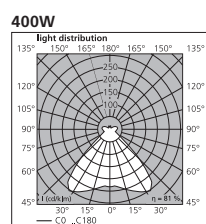
SBH-S



- High ambient temperature, t_a 60°C
- Die-cast aluminium body
- Resin-filled ballast housing
- Upward light reduces glare
- Auxiliary lamp option
- Except for prismatic reflector



* with protective glass *** with polycarbonate reflector
** with aluminium reflector **** with PMMA reflector enclosed



SBH-O BODY

Light Source	HSI-SX/SHP-S	HSL-SC
SBH-O 250W E40	9043941	9043943
SBH-O 400W E40	9043942	9043944

REFLECTOR

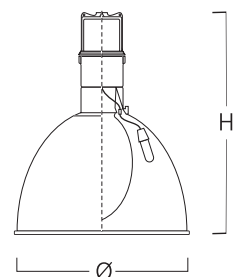
Description	
IP20 Aluminium reflector ø457	9043976
IP50 Aluminium reflector ø457	9043959
Prismatic metha. reflector ø563	5043138
Prismatic poly. reflector ø563	5043166
Fixing set for prismatic reflector	5043139

ACCESSORIES

Description	
Protective grid for ø457	9043965
Protective glass for ø457	9043967

Auxiliary lamp versions available on request.

Please ask your local representative.



DIMENSIONS (MM)			
Reflector lamp	Ø	H	Heaviest weight (kg)
ALUMINIUM			
250 SHP-S	457	630	7.70
400 SHP-S/Britelux HSI-SX	457	630	8.14
250 HSL-SC	457	630	6.61
400 HSL-SC	457	630	7.47

DIMENSIONS (MM)			Heaviest weight (kg)
Reflector lamp	Ø	H	
PMMA			
250 SHP-S/Britelux HSI-SX*	569	630	7.70
400 SHP-S/Britelux HSI-SX	569	630	8.14
250 HSL-SC	569	630	6.61
400 HSL-SC	569	630	7.47
250 SHP-S	457	684	11.60
ALUMINIUM IP 50			
400 SHP-S/Britelux HSI-SX	457	684	11.97
250 HSL-SC	457	684	10.82
400 HSL-SC	457	684	11.63

Sylvania SBH-S

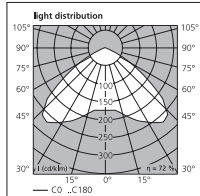
IP 65

- HIGH CEILING INTERIORS SUCH AS FACTORIES, WORKSHOPS, ASSEMBLY LINES, LOADING BAYS, INDUSTRIAL PLANTS WAREHOUSES, DUSTY AND HUMID ENVIRONMENTS

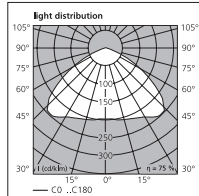
- Sealed reflector luminaires for use in dust and moisture laden atmospheres
- Die-cast aluminium body, t_3 60°C
- Resin-filled ballast housing
- Auxiliary lamp option
- Sealed, toughened/safety glass cover
- Type n'versions for Zone 2 areas on request



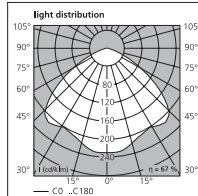
250W



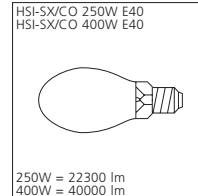
400W



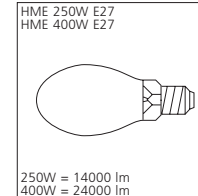
400W



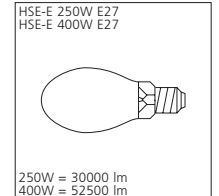
Britelux HSI-SX



HSL-SC



SHP-S



SBH-S BODY

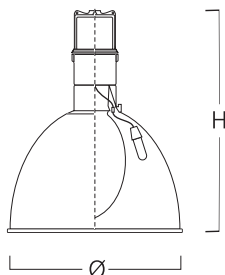
Light Source	HSI-SX/ SHP-S	HSL-SC
SBH-S 250W E40	9043948	9043970
SBH-S 400W E40	9043949	9043971

Wattages	LOR	UTE	DFF
SHP-S 250	71%	0.71	100%
SHP-S 400	75%	0.75	100%
HSL 250	68%	0.68	100%
HSL 400	66%	0.66	100%

ALUMINIUM REFLECTOR

Description	
Including protective glass	9043964

Auxiliary lamp versions available on request. Please ask your local representative.



DIMENSIONS (MM)

Reflector lamp	Ø	H	Heaviest weight (kg)
250 SHP-S/Britelux HSI-SX*	457	684	11.60
400 SHP-S/Britelux HSI-SX	457	684	11.97
250 HSL-SC	457	684	10.82
400 HSL-SC	457	684	11.63

Sylvania

Alioth

- FAST products include appropriate lamp and aluminium reflector
- Variety of lamp choices
- Die-cast aluminium control gear housing, black polyester coated
- Top fins providing excellent heat dissipation characteristics
- Lamp compartment separated from main housing
- Thermal gasket allowing a running temperature up to 45°C
- Various tightness levels available: IP23, IP44 and IP65

ALIOTH is an industrial high-bay luminaire for 250 and 400W in metal halide, sodium & mercury lamps versions. ALIOTH has been designed for professionals, following the market application and installation requirements for retail and industrial projects.

SIMPLE & PURE

Get back to simplicity.....Simple to install, connect, hang and balance. ...& PURE lines, allowing perfect protections against dust, water & shocks.



PMMA Reflector



Aluminium Reflector



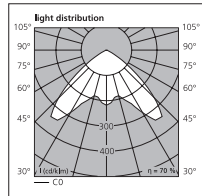
- HIGH CEILING INTERIORS SUCH AS FACTORIES, WORKSHOPS, ASSEMBLY LINES, LOADING BAYS, INDUSTRIAL PLANTS, RETAIL SHOPS

- Die cast aluminium control gear housing
- Excellent heat dissipation, t_a 45°C
- Various protection levels available
- Fast versions available with lamp

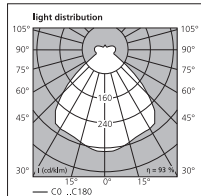


* using the glass cover
** for PMMA versions
*** with methacrylate reflector
**** with aluminium reflector

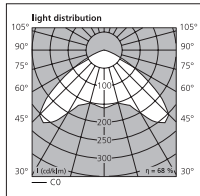
HSI-HS 250W ALU



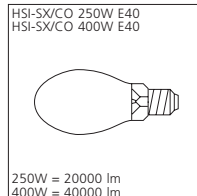
HSL 400W PMMA



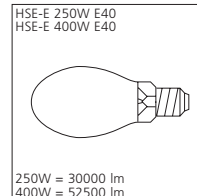
HSI-HX 400W ALU



Britelux HSI-SX



SHP-S



SODIUM SHP & METAL HALIDE HSI-SX/-HX & MERCURY HSL

Description	SHP/HSI-SX	HSL/HSI-HX
Alioth 400W IP65 Body	0039016	0039017
Alioth 250W IP65 Body	0039018	0039019
Alioth 400W IP65 Body + Cable	0039040	0039041
Alioth 250W IP65 Body + Cable	0039042	0039043
Alioth 400W IP23 Body*	0039020	0039021
Alioth 250W IP23 Body*	0039022	0039023
Alioth 400W IP23 Body + Cable*	0039044	0039045
Alioth 250W IP23 Body + Cable*	0039046	0039047

AUXILIARY VERSIONS

Description	
Alioth SHP/HSI-SX 400W Auxiliary	0039027
Alioth SHP/HSI-SX 250W Auxiliary	0039028

HSI

Wattages	Reflector	LOR	UTE	DFF
250W	Aluminium ø410	77%	0.77C	100%
250W	Aluminium ø410 + protective glass	70%	0.70C	100%
250W	Methacrylate prismatic ø563	86%	0.76B+0.10T	88%
250W	Methacrylate prismatic ø563 + Lens	80%	0.65C+0.15T	81%
400W	Aluminium ø410	75%	0.75F	100%
400W	Aluminium ø410 + protective glass	68%	0.68F	100%
400W	Methacrylate prismatic ø563	91%	0.76C+0.15T	83%
400W	Methacrylate prismatic ø563 + Lens	85%	0.66D+0.19T	78%

Caution: Choose HSI Protected lamp versions in open luminaires.
Protective glass or lens must be used if non protected HSI lamps are selected.

SHP

Wattages	Reflector	LOR	UTE	DFF
250W	Aluminium ø410	77%	0.77C	100%
250W	Aluminium ø410 + protective glass	70%	0.70C	100%
250W	Methacrylate prismatic ø563	86%	0.76B+0.10T	88%
250W	Methacrylate prismatic ø563 + Lens	81%	0.66C+0.15T	81%
400W	Aluminium ø410	79%	0.79F	100%
400W	Aluminium ø410 + protective glass	72%	0.72D	100%
400W	Methacrylate prismatic ø563	94%	0.80C+0.14T	85%
400W	Methacrylate prismatic ø563 + Lens	88%	0.69D+0.19T	78%

HSL

Wattages	Reflector	LOR	UTE	DFF
250W	Aluminium ø410	78%	0.78C	100%
250W	Aluminium ø410 + protective glass	71%	0.71C	100%
250W	Methacrylate prismatic ø563	88%	0.78B+0.10T	89%
250W	Methacrylate prismatic ø563 + Lens	83%	0.68C+0.15T	82%
400W	Aluminium ø410	77%	0.77F	100%
400W	Aluminium ø410 + protective glass	69%	0.69D	100%
400W	Methacrylate prismatic ø563	93%	0.79C+0.14T	85%
400W	Methacrylate prismatic ø563 + Lens	86%	0.67D+0.19T	78%

WEIGHT OF THE LUMINAIRES (body + reflector)

Lamp	Wattage	Heaviest weight (kg)
SHP/HSI-SX	250W	9
SHP/HSI-SX	400W	10.5
HSL/HSI-HX	250W	9
HSL/HSI-HX	400W	9



PMMA reflector with lens



Aluminium reflector with protective glass



Aluminium reflector with protective grid

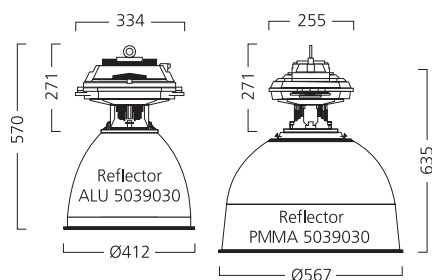
ACCESSORIES

Description	Art. Code
Alioth Aluminium reflector Ø410	5039030
Alioth Glass (with its gasket)	5039033
Alioth Grid	5039036
Alioth PMMA reflector Ø563	5043138
Alioth PMMA Reflector Fixing Kit	5039032
Alioth Lens	5043168
Alioth Lens Fixation	5043169

* IP44 with Aluminium reflector & protective glass.

FAST VERSIONS

Description	Art. Code
Alioth SHP-S 400W + Lamp + Aluminium reflector	0039024
Alioth HSL-SX / CO / P 400W + Lamp + Aluminium reflector	0039025
Alioth HSL-SC 400W + Lamp + Aluminium reflector	0039026
Alioth IP 65 HSI-SX/SHP 250 + Lamp + Aluminium reflector	0039081
Alioth IP 65 HSI-SX/SHP 400 + Lamp + Aluminium reflector	0039080



Example of order			
0039020 0039022 0039027-0039028	+	5039030	= IP44
0039016 0039018	+	5039030	= IP65
0039020 0039022 0039027-0039028	+	5039033	= IP23
0039020 0039022 0039027-0039028	+	5043138	= IP23

Sylvania Yaren

- Extra slim profile
- High efficiency
- Complete with lamps
- SHP dimmable version
- Emergency module
- Auxiliary lamps



YAREN is the new low-bay generation which has reached to combine a slim (125 mm deep) and aesthetic profile with an effective light distribution.
Designed for high pressure sodium and metal halide tubular lamps, YAREN offers a very easy tooling free installation process.



Yaren High Pressure
Sodium SHP



Yaren Metal Halide HSI

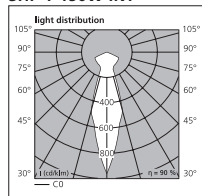


- INTERIOR SPORTS AREAS E.G. SQUASH
- GYMNASIUMS
- STORAGE, GARAGES, MECHANICAL WORK SHOPS, INDUSTRIES, ANY LOW CEILING APPLICATIONS

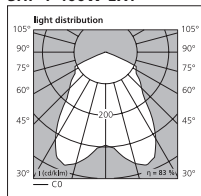
- Extra slim profile
- Options for t_a 30°C or t_a 35°C
- Complete with lamps
- SHP dimmable version
- Emergency module
- Auxiliary lamps
- Lamp included



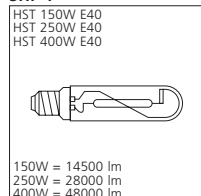
SHP-T 150W INT



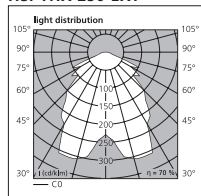
SHP-T 400W EXT



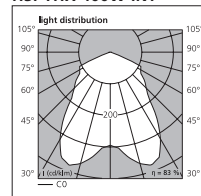
SHP-T



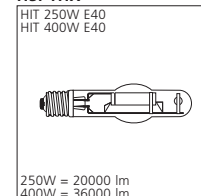
HSI-THX 250 EXT



HSI-THX 400W INT



HSI-THX



HIGH PRESSURE SODIUM SHP

EXTENSIVE DISTRIBUTION

Light Source	Art. Code
HST 150W E40	9039760
HST 250W E40	9039761
HST 400W E40	9039762

INTENSIVE DISTRIBUTION

HST 150W E40	9039763
HST 250W E40	9039764
HST 400W E40	9039765

Dimmable & emergency versions available on request.

Please ask your local representative.

METAL HALIDE HSI

EXTENSIVE DISTRIBUTION

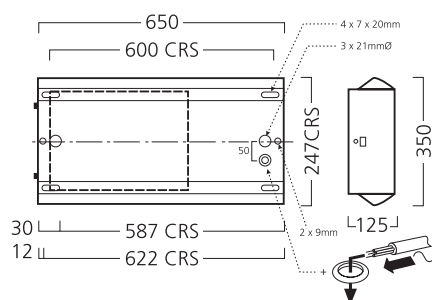
Light Source	+Auxiliary lamp	
HIT 250W E40	9039766	
HIT 400W E40	9039767	9039768

INTENSIVE DISTRIBUTION

HIT 250W E40	9039769	
HIT 400W E40	9039770	9039771

Wattages	LOR	UTE
HSI-THX 250W	INT	82% 0.82C
HSI-THX 250W	EXT	76% 0.76C
HSI-THX 400W	INT	82% 0.82C
HSI-THX 400W	EXT	76% 0.76C

Wattages	LOR	UTE
SHP-T 250W	INT	90% 0.90C
SHP-T 250W	EXT	83% 0.83D
SHP-T 400W	INT	90% 0.90C
SHP-T 400W	EXT	83% 0.83C



DIMENSIONS (MM)

Lamp	Heaviest weight (kg)
150W SHP-T	6.4
250W SHP-T	7.9
400W SHP-T	8.8

DIMENSIONS (MM)

Lamp	Heaviest weight (kg)
250 W HSI-THX	10.1
400 W HSI-THX	11
400 W HSI-THX Aux	11.1

- INTERIOR SPORTS AREAS E.G. SQUASH
- GYMNASIUMS
- STORAGE, GARAGES, MECHANICAL WORK SHOPS, INDUSTRIES, ANY LOW CEILING APPLICATIONS



Yaren wire guard



Yaren transverse louvre



Yaren clear poly cover

ACCESSORIES

Description	Art. Code
Yaren wire guard	9039785
Yaren transverse louvre	9039786
Yaren clear poly cover	9039789
Yaren hooks kit	9039790
Yaren bracket	9039791
Yaren twin bracket link (use with 2x9039791)	9039792

Please ask your local representative.



Single Yaren with bracket



Double Yaren with two brackets and twin bracket link





Bulkhead
488



Brio IP65
492



Sterling Bulkhead
494



Monitor
496



Alleykat
497



Sterling Bollards
498



Subra / Sylalley
502

Amenity & Bollards

Bulkhead

Brio IP65

Sterling
Bulkhead

Monitor

Alleykat

Sterling
Bollards

Subra / Sylalley

Sylvania Bulkhead

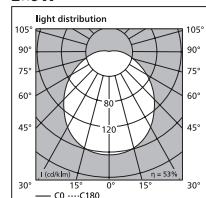
R245

- LIGHTING OF PORCHES, ENTRANCE HALLS, GARAGE ACCESS POINTS AND TERRACES

- Helping to create friendly and reassuring spaces
- Polycarbonate base and crown, opal diffuser
- Aesthetic design, robust
- White or black colour options



2x9W



Lynx-S

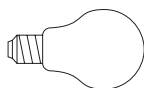
TC-S 9W G53



9W = 600 lm

GLS

A60 75W E27



75W = 915 lm

BULKHEAD R245S

Light Source	White	Black
TC-S 2x9W G53	9052917	9052918
A60 75W E27	9052919	9052920

BULKHEAD R245G (WITH GRID)

TC-S 2x9W G53	9052921	9052922
A60 75W E27	9052913	9052914

ACCESSORY

Screw kit + anti-vandal key	9052909
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Description

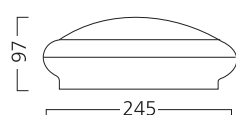
- Polycarbonate base plate and crown.
- 2 colours: white and black.
- Opal diffuser in pressed glass held by 2 cruciform screws which cannot be lost, corrosion proof (sea air)
- High thermal resistance seal. Internal aluminium reflector for incandescent lamp versions.
- Reflective plate to support lamp-holder/ switchgear for fluorescent compact lamp versions.

Installation - Maintenance

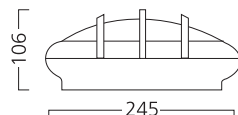
- 4 oblong and 1 central fixing points Ø5 mm.
- Connection through 2 insulating sheaths via a rubber grommet directly on lampholder.
- Use the 2 80 mm insulating sheaths. For the fluorescent compact versions, disconnect the support plate lampholder/switchgear to connect up to the 2 P screw connector.
- Access to the equipment and the fixing after removing the diffuser and reflector.



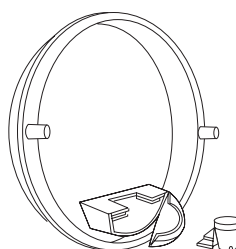
Bulkhead R245G



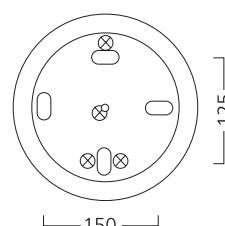
Bulkhead R245S



Bulkhead R245S with Grid



Access to the equipment



Sylvania Bulkhead

Deco Anti Vandal

- LIGHTING OF PORCHES, ENTRANCE HALLS, GARAGE ACCESS POINTS, LARGE BUILDING COMPLEXES, PUBLIC AREAS AND COMMERCIAL OR INDUSTRIAL ESTATES

- Aesthetic design for residential applications
- Vandal resistant with anti tamper screws



Lynx-S

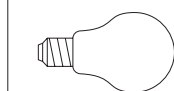
TC-S 9W G53



9W = 600 lm

GLS

A60 100W E27



100W = 1340 lm

Description

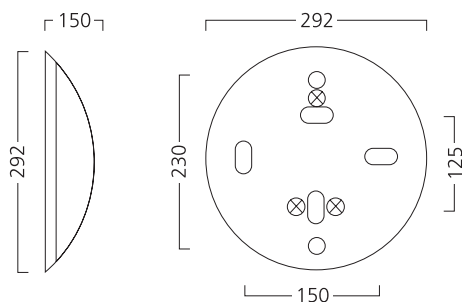
- Base plate made of white thermosetting material, Ø292.
- Polycarbonate diffuser with frosted interior.
- Internal aluminium reflector.

Installation - Maintenance

- 11P.2 rear cable entries. 6 fixing points, one being at each end: anti-wrench.
- Diffuser fitted by 1/4 turn bayonet system.
- Locking by anti-tamper screw (key supplied).
- Reflective plate to support lamp holder/ switchgear for fluorescent compact lamp versions.

ANTI-VANDAL BULKHEAD DECO

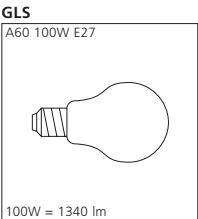
Light Source	White
A60 100W E27	9052911
TC-S 2x9W G53	9052912



Sylvania Bulkhead
Anti-vandal

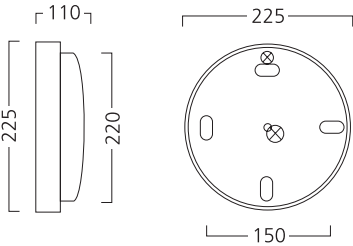
- LIGHTING OF PORCHES, ENTRANCE HALLS, GARAGE ACCESS POINTS, LARGE BUILDING COMPLEXES, PUBLIC AREAS AND COMMERCIAL OR INDUSTRIAL ESTATES

- Compact and robust design
- Vandal resistant with anti tamper screws



- Description**
- Base plate made of white thermosetting material, Ø225.
 - Polycarbonate diffuser with ribbed interior.
 - Internal aluminium reflector.
- Installation - Maintenance**
- Power supply by 2 inputs P.E. 11P.2 rear cable entries.
 - 5 fixing points, one of which is central.
 - Diffuser fitted by 1/4 turn bayonet system.
 - Locking by means of theft protection fixed by 3 screws which reduce opportunity for vandalism or loss.

ANTI-VANDAL BULKHEAD	
Light Source	White
A60 100W E27 blanc	9052900



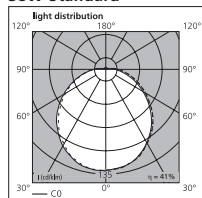
ARY



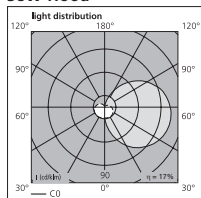
- Attractive, tough IK10 impact resistant construction
- 104 -119mm discrete profile
- Aesthetically pleasing designs
- IP65 water jet proof
- Emergency versions available as standard



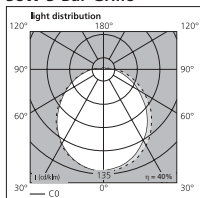
38W Standard



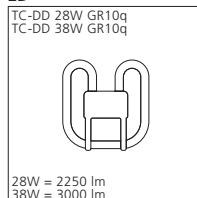
38W Hood



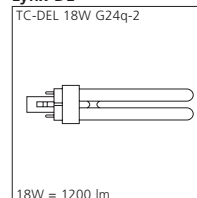
38W 3 Bar Grille



2D



Lynx-DE



STANDARD

Light Source	Emergency	White	Black	Silver
TC-DD 28W GR10q		4063645		4063649
TC-DD 28W GR10q	Integral	4063646		4063650
TC-DD 38W GR10q			4063653	4063655
TC-DD 38W GR10q	Integral		4063654	4063656

HOOD

TC-DEL 2x18W G24q-2		4063665	4063667
TC-DEL 2x18W G24q-2	Integral*	4063666	4063668
TC-DD 28W GR10q		4063671	4063673
TC-DD 28W GR10q	Integral	4063672	4063674
TC-DD 38W GR10q		4063677	4063679
TC-DD 38W GR10q	Integral*	4063678	4063680

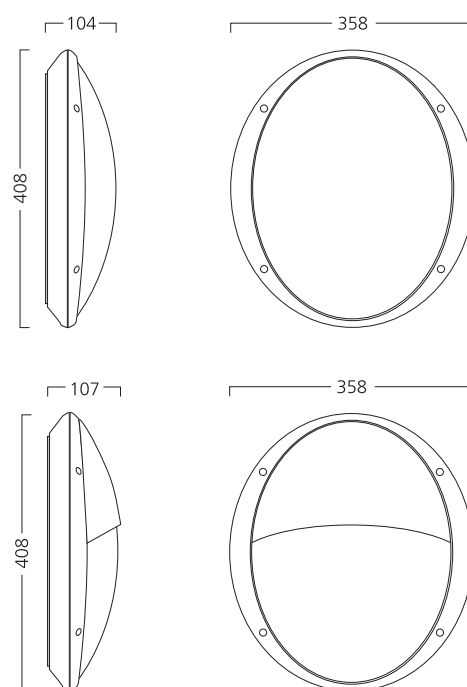
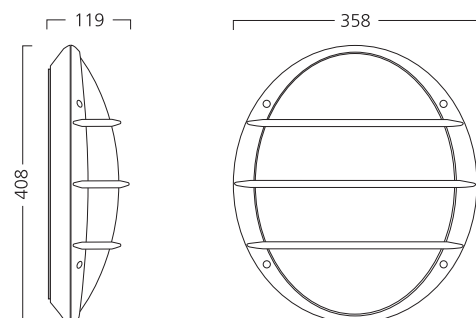
* t_a 20°C

3 BAR GRILLE

TC-DD 28W GR10q		4063693	4063695	4063697
TC-DD 28W GR10q	Integral	4063694	4063696	4063698
TC-DD 38W GR10q		4063701	4063703	
TC-DD 38W GR10q	Integral	4063702	4063704	

ACCESSORY (ORDER SEPARATELY)

Tamper resistant screws and key	4064201
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Concord Brio

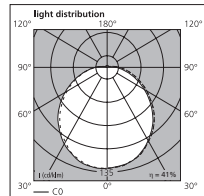
IP65 Vandal Resistant

- CORRIDORS, EXTERIOR WALKWAYS
- ENTRANCES TRANSPORT HUBS
- STAIRWELLS & STAIRWAYS, PRISONS
- INSTITUTIONS

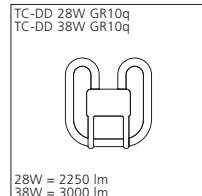
- Tough, functional IK10 impact resistant construction
- Sloped body and flush mounting make it ligature and vandal resistant
- Tamper resistant screws as standard
- Ideal for institutional environments
- Emergency versions available as standard



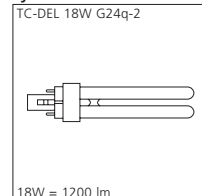
38W



2D

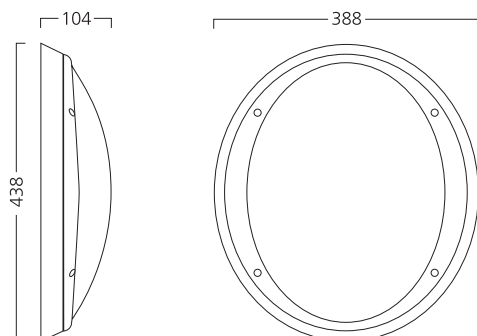


Lynx-DE



BRIO

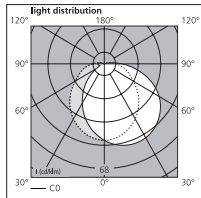
Light Source	Emergency	White	Black	Silver
TC-DEL 2x18W G24q-2		4064535	4064785	4064537
TC-DEL 2x18W G24q-2	Integral	4064536	4064786	4064538
TC-DD 28W GR10q		4064481	4064787	4064483
TC-DD 28W GR10q	Integral	4064482	4064788	4064484
TC-DD 38W GR10q		4064485	4064789	4064487
TC-DD 38W GR10q	Integral	4064486	4064790	4064488



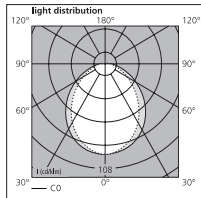
- Pressure die cast housings and polycarbonate diffusers for extra vandal resistance
- 2 mounting options, surface and light halo
- Tamper resistant kit available
- Emergency versions available as standard



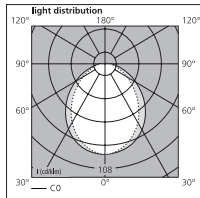
4043630 + 4041005



4043630 + 4041004



4043630 + 4041007



2D

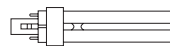
TC-DD 28W GR10q
TC-DD 38W GR10q



28W = 2250 lm
38W = 3000 lm

Lynx-D

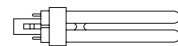
TC-D 26W G24q-3



26W = 1800 lm

Lynx-DE

TC-DEL 26W G24q-3



26W = 1800 lm

HOUSING

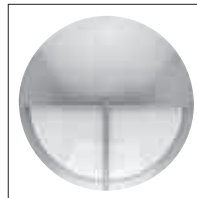
Light Source	Emergency	Black	Silver
2D 28W GR10q		4037259	4041002
2D 28W GR10q	Integral	4037283	4041003
2D 38W GR10q		4043631	4043630
TC-D 26W G24q-3		4040999	4040995
TC-D 26W G24q-3	Integral	4041001	
Surface conduit pattress accessory		4037282	4041006

LIGHT HALO

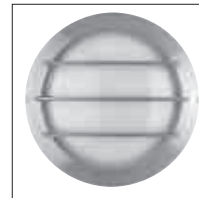
2D 28W GR10q		4037277	4040984
2D 28W GR10q	Integral	4037284	4040985
TC-D 26W G24q-3		4040981	4040977
TC-DE 26W G24q-3	Integral	4040983	4040979

ACCESSORIES (ORDER SEPARATELY)

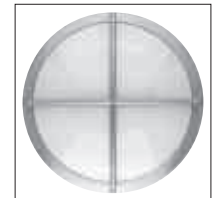
Model	Black	Silver
Hood	4037279	4041005
3 Bar grille	4037280	4041004
X bar	4037281	4041007
Tamper resistant screws and key		4049172



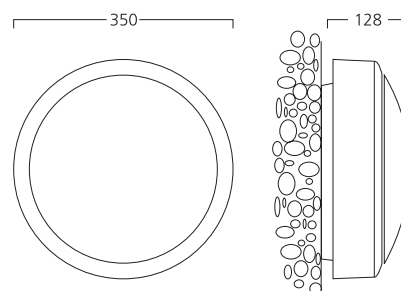
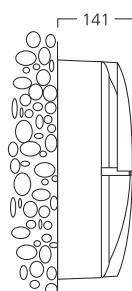
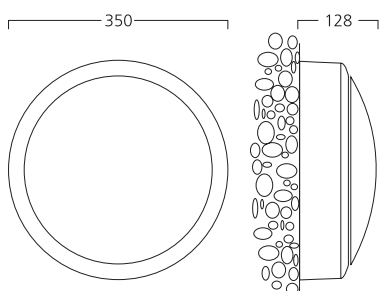
38W Hood



38W 3 Bar grille



38W X Bar



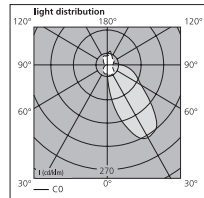
Concord Sterling Asymmetric Bulkhead

- CORRIDORS
- EXTERIOR WALKWAYS
- ENTRANCES, TRANSPORT HUBS
- STAIRWELLS & STAIRWAYS

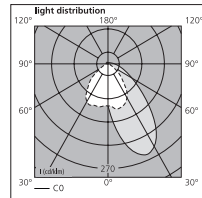
- Complementary asymmetric version to Sterling Bulkhead range
- Unique textured diffuser to maximise distribution



26W

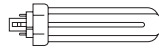


70W



Lynx-TE

TC-TEL 26W GX24q-3
TC-TEL 32W GX24q-3
TC-TEL 42W GX24q-4



26W = 1800 lm
32W = 2400 lm
42W = 3200 lm

CMI-TD

HIT-DE-CE 70W Rx7s



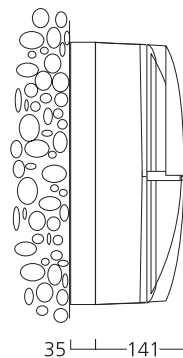
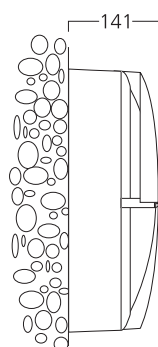
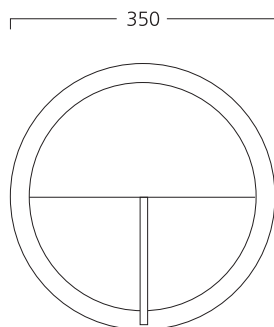
70W = 6200 lm

ASYMMETRIC SURFACE

Light Source	Black	Silver
TC-TEL 26W/32W/42W GX24q-3	4064161	4064162
HIT-DE-CE 70W Rx7s	4064163	4064164
Surface conduit pattress accessory	4037282	

ACCESSORY (ORDER SEPARATELY)

Tamper resistant screws and key	4049172
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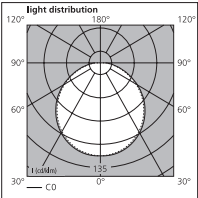


- CORRIDORS
- EXTERIOR WALKWAYS
- ENTRANCES, TRANSPORT HUBS
- STAIRWELLS & STAIRWAYS

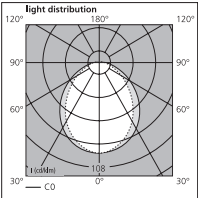
- Pressure die cast housing and polycarbonate diffuser for extra vandal resistance
- Emergency options for use on defined escape routes
- Patress allows surface conduit entry
- Emergency versions as standard



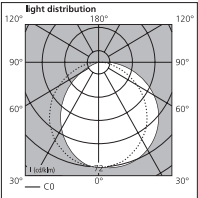
38W Standard



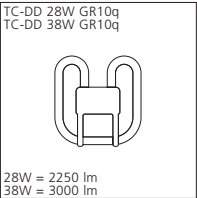
38W Hood



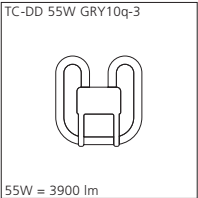
38W 4 Bar Grille



2D



2D



HOUSING

Light Source	Emergency	White	Black	Silver
2D 28W GR10q		4045993	4045997	4045988
2D 28W GR10q	Integral	4045994	4045998	4045990
2D 38W GR10q		4046011	4046016	4046006
2D 38W GR10q	Integral	4046012	4046017	4046007
2D 55W GR10q-3		4046023	4046025	4046021

ACCESSORIES (ORDER SEPARATELY)

Description	White	Black	Silver
Hood	4046002	4046028	4045981
4 Bar grille	4046001	4046027	4045980
Patress	4045976	4045977	4045975
Tamper resistant screws and key	4045978		



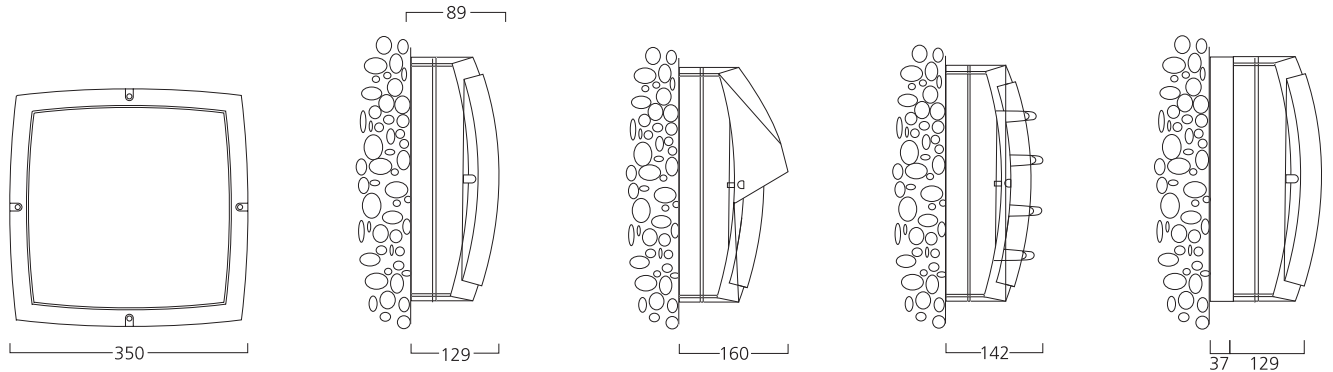
Hood



4 Bar grille



Patress



- High performance residential, commercial and industrial lighting
- Providing security and deterrence
- Outdoor use, t_a 15°C
- Lamp included
- Bronze enamel finish



Description

- Injected aluminium body with bronze-coloured enamel varnish, oven baked.
- Parabolic aluminium internal optic to ensure optimum output and accuracy of the light beam.
- Polycarbonate refractor for a good distribution of the light. Integrated electronic switchgear: ballast, clear autoigniting high pressure sodium lamp SHP 70W/CL/I or standard coated one.
- Supplied with horizontal and vertical cast aluminium fixing accessories, screws and bolts.

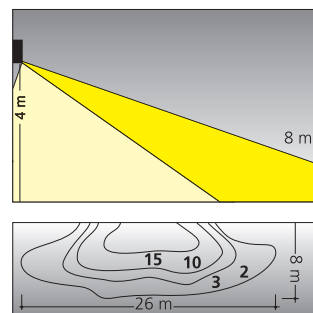
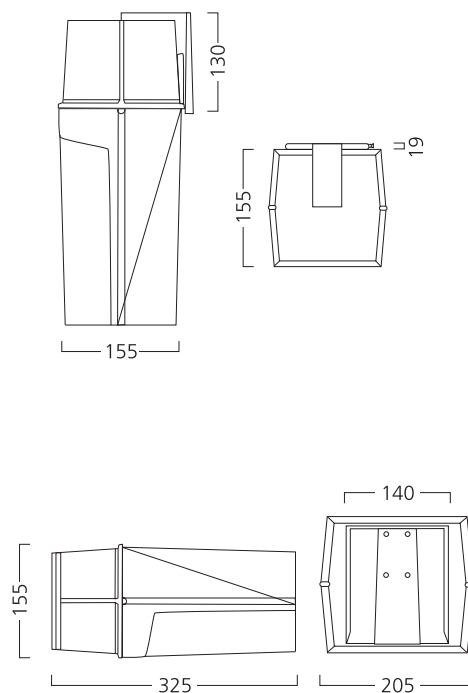
ALLEYKAT

Light Source	Art. Code
Alleykat SHP 70W / CO / E	0043606
Alleykat SHP 70W / CL / I	0043608

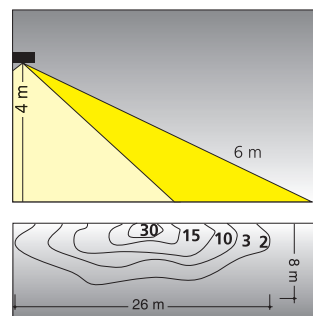
Installation - Maintenance

Two positions for installation:

- Horizontal
- Vertical



Vertical mounting



Horizontal mounting

LAMP

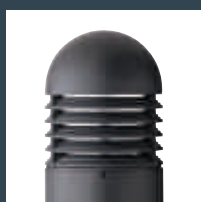
Colour Temp. (K)	Flux (lm)	Finish
2050	5800	Coated
2050	6000	Clear

Concord

Sterling Bollards

- Sterling is a range of bollards for lighting paths and municipal areas
- The stepped cone versions have a baffle which obscures the direct view of the lamp
- Uniform ground illumination is achieved up to 7m from the bollard
- The stepped louvred version maintains even illumination up to a distance of 4m
- High corrosion resistance with chemical chromatised protection

Control Gear:	HME built in ballast and capacitor TC-T built in ballast and capacitor HST built in ballast, capacitor and ignitor HIT-CE built in ballast, capacitor and ignitor TC-TEL integral electronic gear
Head Assembly:	Pressure die cast aluminium
Diffuser:	Polycarbonate vandal proof
Body:	Extruded aluminium
Base & Root:	Super pure copper free aluminium
Root ties:	Stainless steel
Retaining Screws:	Stainless steel
Paint finish:	Anti corrosion pre-treated prior to powder coating, black RAL 9005, silver 9006
Fuse cut out box:	Fuse type BS88 single body



Sterling Bollard



- Unique design making the range highly vandal resistant. IK10
- High performance optics allows wide spacing
- Emergency compact fluorescent version to special order
- New class 2 classification for improved electrical safety

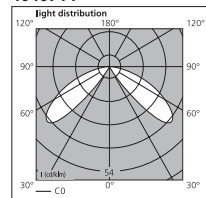


CDM-TT
HIT-CE 70W E27



70W = 6300 lm

4040714



Lynx-TE

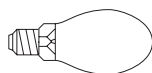
TC-TEL 26W GX24q-3
TC-TEL 32W GX24q-3
TC-TEL 42W GX24q-4



26W = 1800 lm
32W = 2400 lm
42W = 3200 lm

HSL-SC

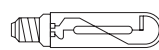
HME 50W E27
HME 80W E27



50W = 2000 lm
80W = 4000 lm

SHP-T

HST 50W E27



50W = 3500 lm

STEPPED LOUVRE 940MM HIGH

Light Source		Domed Top Black	Silver	Flat Top Black	Silver
TC-TEL	26/32W GX24q-3 / 42W GX24q-4	4048951	4048954	4058343	4058344
HME	50/80W E27	4040713	4040721	4058352	4058353
HST	50W E27	4041749	4041750	4058346	4058347
HST/HIT-CE	70W E27	4040714	4040722	4058349	4058350

STEPPED LOUVRE 450MM HIGH

TC-TEL	26/32W GX24q-3 / 42W GX24q-4	4061729	4061730	4061719	4061720
HME	50/80W E27	4061735	4061736	4061725	4061726
HST	50W E27	4061731	4061732	4061721	4061722
HST/HIT-CE	70W E27	4061733	4061734	4061723	4061724

STEPPED CONE 940MM HIGH

TC-TEL	26/32W GX24q-3 / 42W GX24q-4	4048937	4048940	4058328	4058329
HME	50/80W E27	4040710	4040718	4058337	4058338
HST	50W E27	4041747	4041748	4058331	4058332
HST/HIT-CE	70W E27	4040711	4040719	4058334	4058335

STEPPED CONE 450MM HIGH

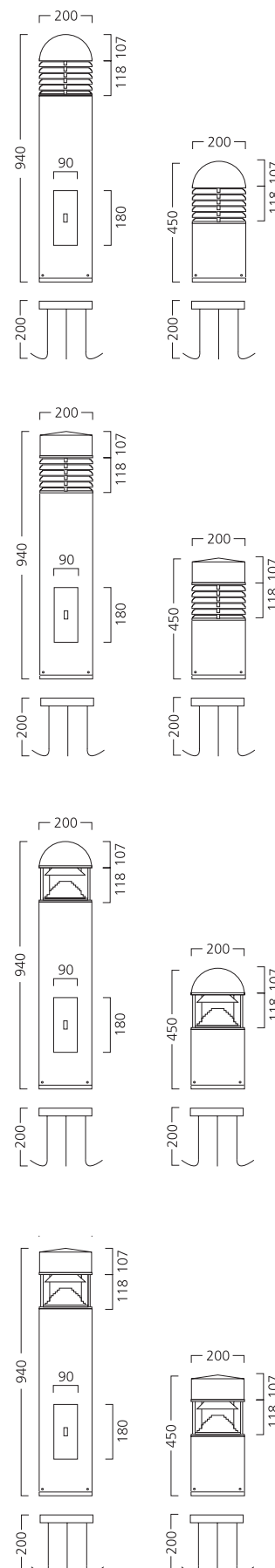
TC-TEL	26/32W GX24q-3 / 42W GX24q-4	4061709	4061710	4061699	4061700
HME	50/80W E27	4061715	4061716	4061705	4061706
HST	50W E27	4061711	4061712	4061701	4061702
HST/HIT-CE	70W E27	4061713	4061714	4061703	4061704

ACCESSORIES

	Angle	Black	Silver
Cut off shield	240°	4043619	4043620
Cut off shield	120°	4043621	4043622
Mounting root (For setting into concrete when fixing into soil)		4040715	
Fuse cut out box			4040716

Double pole/single phase, facilitates armoured cable. Fixings supplied to mount box on internal DIN rail within post.

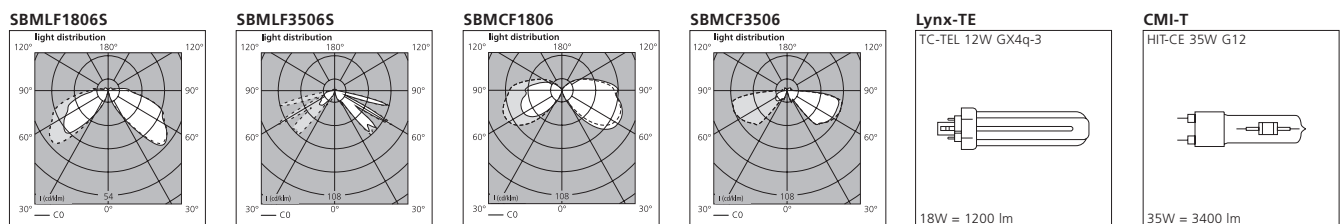
Note: Not suitable for 450mm high bollard



Concord Mini Sterling Bollard

- WALKWAYS
- PEDESTRIAN ZONES
- MUNICIPAL AREAS
- PLAZAS, DRIVEWAYS

- Unique design making the range highly vandal resistant. IK10
- High performance optics allows wide spacing
- Glare free from typical walking and driving viewing angles
- New class 2 classification for improved electrical safety



STEPPED LOUVRE 800MM HIGH

Light Source		Domed top Black	Silver	Flat Top Black	Silver
TC-T	18W GX24q-3	SBMLD 1806	SBMLD 1812	SBMLF 1806	SBMLF 1812
HIT-CE	35W G12	SBMLD 3506	SBMLD 3512	SBMLF 3506	SBMLF 3512

STEPPED LOUVRE 500MM HIGH

TC-T	18W GX24q-3	SBMLD 1806S	SBMLD 1812S	SBMLF 1806S	SBMLF 1812S
HIT-CE	35W G12	SBMLD 3506S	SBMLD 3512S	SBMLF 3506S	SBMLF 3512S

STEPPED CONE 800MM HIGH

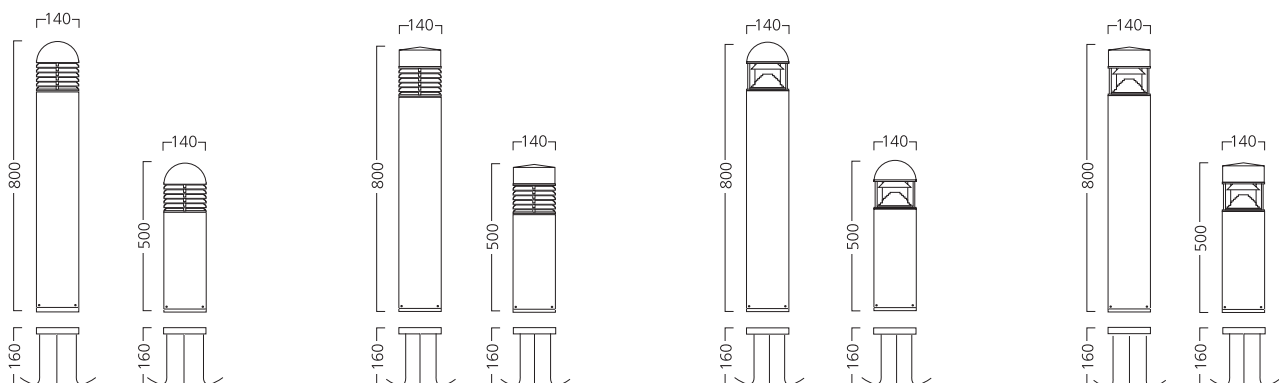
TC-T	18W GX24q-3	SBMCD 1806	SBMCD 1812	SBMCF 1806	SBMCF 1812
HIT-CE	35W G12	SBMCD 3506	SBMCD 3512	SBMCF 3506	SBMCF 3512

STEPPED CONE 500MM HIGH

TC-T	18W GX24q-3	SBMCD 1806S	SBMCD 1812S	SBMCF 1806S	SBMCF 1812S
HIT-CE	35W G12	SBMCD 3506S	SBMCD 3512S	SBMCF 3506S	SBMCF 3512S

ACCESSORY

Mounting root	(For setting into concrete when fixing into soil)	SBM ROOT
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Sylvania

Subra / Sylalley

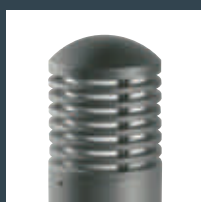
- LM6 die-cast aluminium polyester powder painted housings
- Anti-corrosion treatment
- Acrylic or polycarbonate diffusers
- Fixing bases provided with appropriate stainless steel fixing screws
- Various lamp choices
- t_a 25°C



The Sylvania range of Bollards provides effective orientation light for external pathways and entrance areas.

Two types of light distribution exist satisfying most applications (Compact Florescent or metal halide).

Supplied with an E27 socket base. Appropriate gear tray & lamps need to be ordered according to your requirements.



Subra



Sylalley

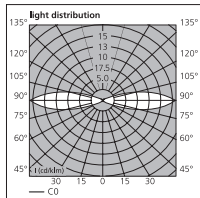


- LIGHTING PATHS
- MUNICIPAL AREAS
- PEDESTRIAN ACCESS AREAS
- WALKWAYS

- Silver powder coated bollard with acrylic diffuser
- LM6 die-cast aluminium
- Easy installation
- Overall height 665mm



HSI-MP 70W

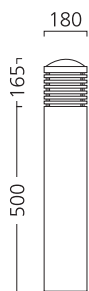


Description

- Silver powder coated.
- Anti-corrosive protection.
- Silicone gaskets.
- Acrylic diffuser.
- Anchorage set to be fixed in concrete.
- For compact fluorescent Mini-Lynx T 15W lamp E27 type.
- Or metal halide 70W HSI-MP, 70W SHP-T lamp types using the appropriate gear tray.

SUBRA

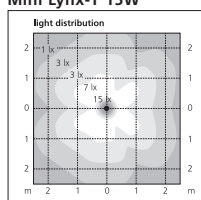
	Art. Code
Subra grey 665 mm E27	0053225
Gear tray HSI-MP or SHP-T up to 70W	5053226



- Black powder coated bollard with polycarbonate diffuser
- LM6 die-cast aluminium
- Easy installation
- Overall height 800mm



Mini Lynx-T 15W

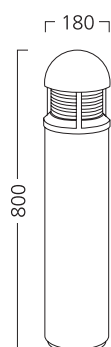


Description

- Black powder coated.
- Anti-corrosive protection.
- High intensity polycarbonate diffuser cover.
- Stainless steel fixing screws.
- Aluminium reflecting louver.
- For compact fluorescent Mini-Lynx T 15W lamp E27 type.
- Or metal halide 70W HSI-MP, 70W SHP-T lamp types using the appropriate gear tray.

SYLALLEY

	Art. Code
Sylalley black 800mm E27	0053230
Gear tray HSI-MP or SHP-T up to 70W	5053226







Palmyra
508



Syleos
516



Mureo
521



Rytmo
522



Borneo
523



Tanna
524



Makira
525



Inset / Instar
526



Silo
528

Palmyra
Syleos
Mureo
Rytmo
Borneo
Tanna
Makira
Inset / Instar
Silo

Inground / Wall Lights

Sylvania Palmyra

- Wide choice of sizes, from patio through to driveway lighting
- Direct front access to lamp and gear box
- Lamp and recessing kit included
- Choice of light sources from LED to 150W metal halide
- T_a 25°C



Palmyra is an in-ground recessed product range suitable for orientation & indirect lighting.

It exists in different diameters and beam angles, using LED, compact fluorescent, halogen or metal halide lamps.

Designed for large indoor & outdoor applications IP68.

Description

Die-cast aluminium housings and collars, dark grey polyester powder coated.

Anti-corrosion painting treatment.

10mm toughened glass.

Silicone gasket.

Supplied complete with gear box and lamp.

Installation & Maintenance

Insert directly using the installation kit.

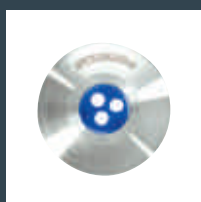
Ensure adequate drainage in the lower part where there is a risk of water accumulation.

Cable entry in the lower part through M20 cable gland using H07RNF wires.

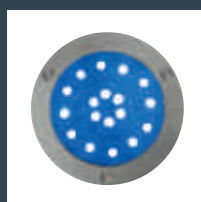
Postpone installation & maintenance in case of bad weather conditions.

Proceed to a 30min operation before closing the luminaire.

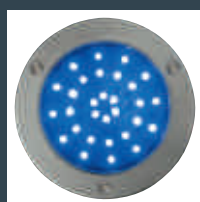
Direct front access to lamp and gear box by removing the collar fixed with the stainless steel screws.



Palmyra Ø50 mm



Palmyra Ø90 mm



Palmyra Ø140 mm



Palmyra Ø190 mm



Palmyra Ø290 mm



Palmyra Square



Sylvania Palmyra

Ø50mm

- IDEALLY SUITED FOR IMPROVEMENT OF GREEN AREAS
- GARDENS, ILLUMINATIONS OF MONUMENTS
- BUILDING FACADES, WALKWAYS
- PRIVATE ACCESS AREAS

- 3 LED operated on 12V, choice of blue or white
- Suitable for wall mounting
- Delivered with 2G1 HO7RNF cable 3m
- Withstand to 500kg static
- Lamp included



Description

- Housing & circular plate in stainless steel.
- 10mm tempered glass fixed on a silicon gasket.
- Single nickel steel M16 cable gland entry.
- 3 LED on a PCB included operated on 12V.

PALMYRA Ø50MM

Light Source	Wattage	Flux / Intensity	Surface Temp	Art. Code
LED white	0.25W	24cd	35°C	0053191
LED blue	0.25W	12cd	35°C	0053192

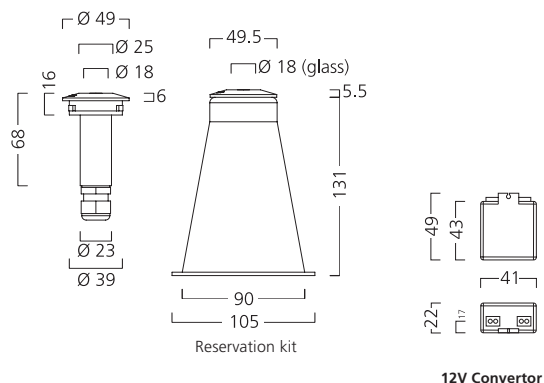
ACCESSORIES Ø50MM

Description	Art. Code
12V convertor 0.6A max	5053193

Suitable for 12 luminaires max.



Palmyra Ø50mm blue

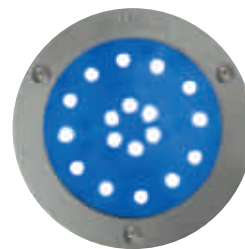


Sylvania Palmyra

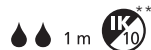
Ø 90 / 140mm

- IDEALLY SUITED FOR IMPROVEMENT OF GREEN AREAS
- GARDENS, ILLUMINATIONS OF MONUMENTS
- BUILDING FACADES, WALKWAYS
- PRIVATE ACCESS AREAS

- For Ø90mm: withstand to 1 ton static
- For Ø140mm: withstand to 1 ton at 30 km/h
- For Ø90mm: 18 mains supply LED with a choice of blue or white
- For Ø140mm: 30 LED operated from mains supply or compact fluorescent lamps
- Lamp included

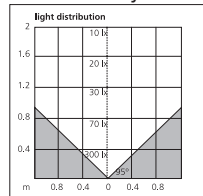


* except 90Ømm

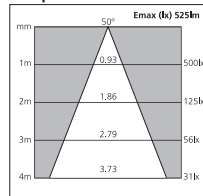


** IK09 Palmyra 90

Frosted Micro Lynx 6W



Hi-Spot ES50 50W



Description Palmyra Ø90mm

- Housing and circular plate in die cast aluminium, dark grey powder painted.
- 10mm toughened glass placed on a silicon gasket
- Double M16 cable entries.
- Stainless steel fixing screws.
- 18 LED on a PCB included operated on main supply.

Description Palmyra Ø140mm

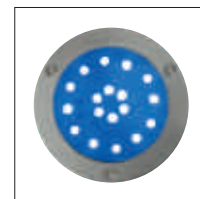
- Housing and circular plate in die cast aluminium, dark grey powder painted.
- 10mm toughened glass placed on a silicon gasket.
- Double M16 cable entries.
- Stainless steel fixing screws.
- 30 LED on a PCB included operated on main supply.
- Or compact fluorescent Micro-Lynx & Hi-Spot ES50 lamp type included.

PALMYRA Ø90MM

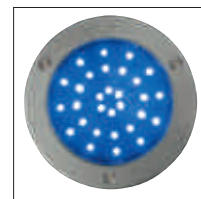
Light Source	Wattage	Flux / Intensity	Surface Temp	Art. Code
LED white	1.4W	144cd	35°C	0053189
LED blue	1.4W	72cd	35°C	0053190

PALMYRA Ø140MM

Light Source	Wattage	Flux / Intensity	Surface Temp	K	Art. Code
LED white	2.1W	240cd	40°C		0053184
LED blue	2.1W	120cd	40°C		0053185
Micro Lynx + frosted glass	6W	220cd	60°C	4000	0053182
Hi-Spot ES50	50W	500cd	115°C	2750	0053183



Palmyra Ø90mm



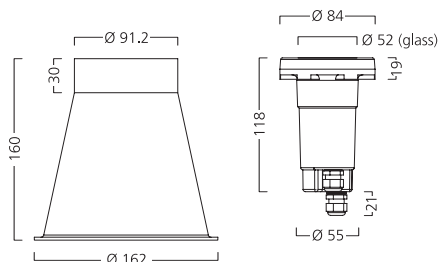
Palmyra Ø140mm

ACCESSORIES Ø140MM

Description	Art. Code
Stainless steel / Circular plate	5053186
Stainless steel / Square plate	5053187
Frosted glass	5053188

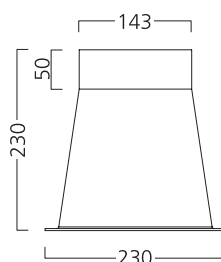


Stainless steel plate



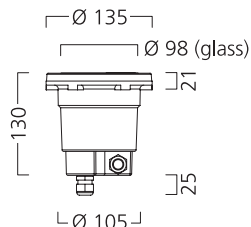
Reservation kit

Palmyra Ø90m



Reservation kit

Palmyra Ø140m



Sylvania Palmyra

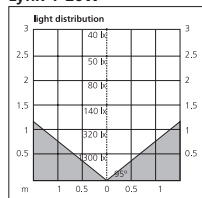
Ø190mm

- IDEALLY SUITED FOR IMPROVEMENT OF GREEN AREAS
- GARDENS, ILLUMINATIONS OF MONUMENTS
- BUILDING FACADES, WALKWAYS
- PRIVATE ACCESS AREAS

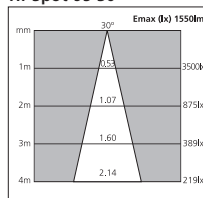
- Withstand to 3.5 tons at 30 km/h
- Anodised aluminium reflector
- Halogen or compact fluorescent lamps included



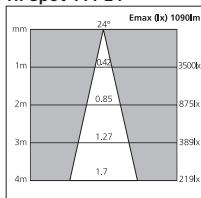
Lynx-T 26W



Hi-Spot 95 30°



Hi-Spot 111 24°



Description

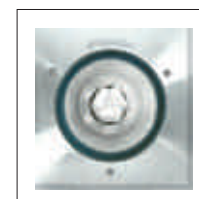
- Body and circular plate deep die cast aluminium dark grey powder painted.
- 10mm toughened glass placed on silicon gasket.
- Anodised aluminium reflector.
- Stainless steel fixing screws.
- Double M20 cable gland entries.
- For halogen lamps Hi-spot 95 & ES 111 included.
- Or compact fluorescent Lynx-D 18W & Lynx-T 26W included.

PALMYRA Ø190MM

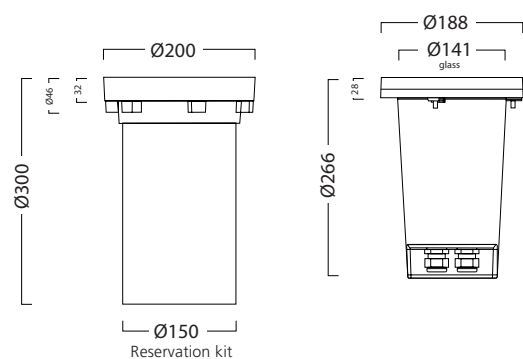
Light Source	Wattage	Flux / Intensity	Surface Temp	K	Art. Code
Hi-Spot 95	100W	3500cd	<180°C	2900	0053174
Hi-Spot ES 111	75W	3000cd	<180°C	2800	0053175
Lynx-D	18W	1200lm	65°C	4000	0053172
Lynx-T	26W	1800lm	<100°C	4000	0053173

ACCESSORIES Ø190MM

Description	Art. Code
Stainless steel / Circular plate	5053176
Stainless steel / Square plate	5053177
Frosted glass	5053178



Square accessory plate



Sylvania Palmyra

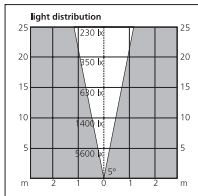
Ø290mm

- IDEALLY SUITED FOR IMPROVEMENT OF GREEN AREAS
- GARDENS, ILLUMINATIONS OF MONUMENTS
- BUILDING FACADES, WALKWAYS
- PRIVATE ACCESS AREAS

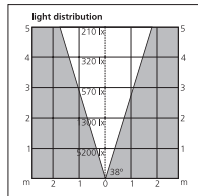
- Metal halide lamps included
- Anodised aluminium reflector 2x10° tiltable on G12 versions
- Withstand to 3.5 tons at 30 km/h



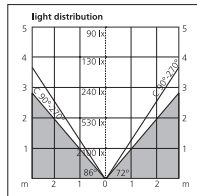
HSI-T 70W Narrow



HSI-T 70W Medium



HSI-TD 70W Wide



Description

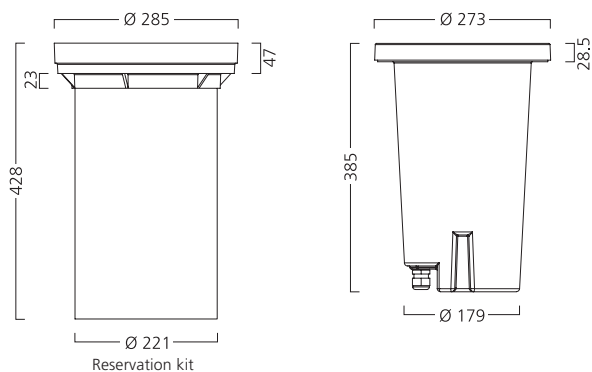
- Body and circular plate deep die cast aluminium dark grey powder coated.
- 10mm toughened glass placed on a silicon gasket.
- Anodised aluminium reflector 2x10° tiltable on G12 versions.
- Stainless steel fixing screws.
- Double M20 cable gland entries.
- For metal halide G12 base lamps included.
- Or metal halide Rx7S lamps included.

PALMYRA Ø290MM

Light Source	Wattage	Flux (lm)	K	Beam	Surface Temp	Art. Code
CMI-T	35W	3400	3000	Narrow	115°C	0053160
CMI-T	35W	3400	3000	Medium	115°C	0053161
HSI-T / CMI-T	70W	5200	4200	Narrow	130°C	0053162
HSI-T / CMI-T	70W	5200	4200	Medium	<180°C	0053164
HSI-T / CMI-T	150W	12500	4200	Narrow	130°C	0053163
HSI-T / CMI-T	150W	12500	4200	Medium	160°C	0053165
HSI-TD / CMI-TD	70W	5800	4200	Wide	160°C	0053166
HSI-TD / CMI-TD	150W	13000	4200	Wide	175°C	0053167

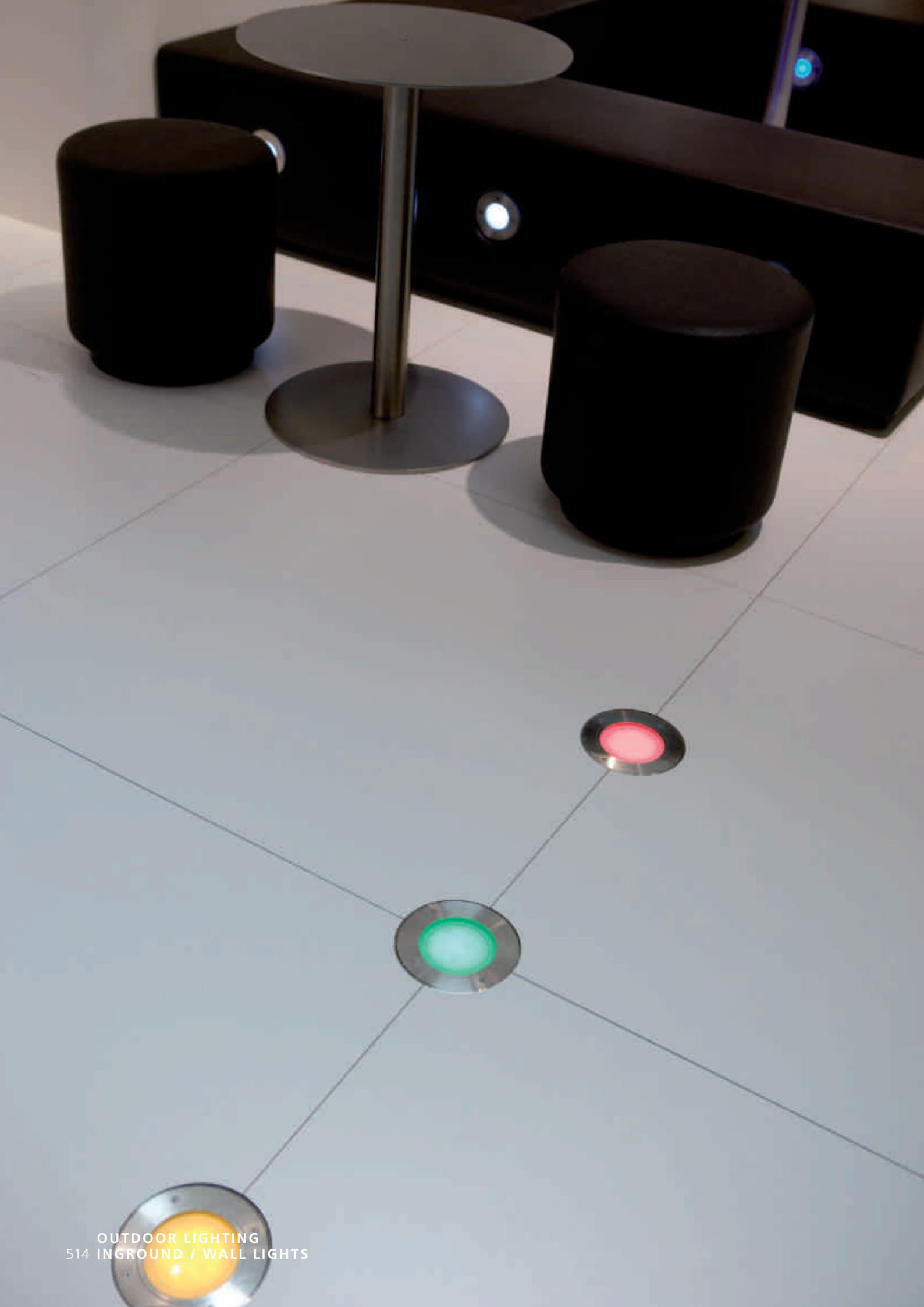
ACCESSORIES Ø290MM

Description	Art. Code
Louvre	5053168
Stainless steel / Circular plate	5053169
Stainless steel / Square plate	5053170
Frosted glass 10mm	5053171
Frosted glass 15mm	5053159



Circular accessory plate





OUTDOOR LIGHTING
514 INGROUND / WALL LIGHTS

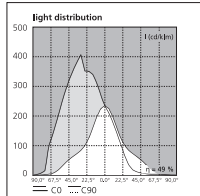
Sylvania Palmyra Square

- IDEALLY SUITED FOR IMPROVEMENT OF GREEN AREAS
- GARDENS, ILLUMINATIONS OF MONUMENTS
- BUILDING FACADES, WALKWAYS
- PRIVATE ACCESS AREAS

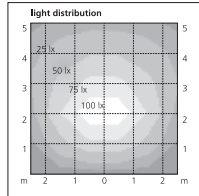
- Asymmetric version
- Anodised aluminium reflector
- Withstand to 3.5 tons at 30 km/h
- Lamp included



HSI-TD 70W



HSI-TD 150W



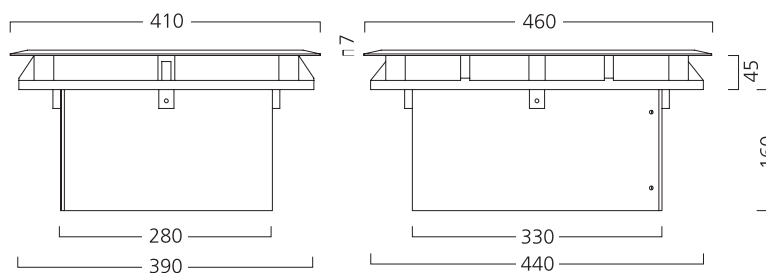
H = 2.0m

Description

- 2.5mm housing in deep die cast aluminium dark grey polyester powder painted.
- Plate in stainless steel 8mm depth.
- Anodised aluminium internal asymmetric reflector.
- 19mm tempered glass placed on a silicon gasket.
- Stainless steel fixing screws.
- Double M20 cable gland entries.
- For HSI-TD 70 & 150W lamp type included.

PALMYRA Ø290MM

Light Source	Wattage	Flux (lm)	K	Beam	Surface Temp	Art. Code
HSI-TD	70W	5800	4200	Asymmetric	110°C	0053194
HSI-TD	150W	13000	4200	Asymmetric	125°C	0053195



Sylvania

Syleos

- Wide choice of sizes, suitable for washing walls with various lighting effects
- Lighting building facades
- Direct front access to lamp and gear box
- Lamp and recessing kit included
- t_a 25°C

SYLEOS is a flat rectangular in-ground recessed product range suitable for orientation & indirect lighting. It exists in different lengths, using LED, compact or linear T5 fluorescent lamps. Designed for large indoor & outdoor applications.

Description

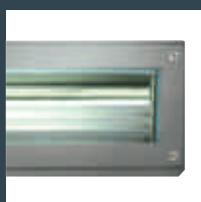
Robust die-cast aluminium housing and closures, dark grey polyester powder coated.
Anti-corrosion painting treatment.
Stainless steel front plate 3 to 12mm thick optional.
10mm to 12mm toughened glass.
Silicone gaskets.
Supplied complete with gear box and lamp.

Installation & Maintenance

Insert directly using the installation kit.
Ensure adequate drainage in the lower part where there is a risk of water accumulation.
Cable entry in the lower part through M20 cable gland using H07RNF wires.
Postpone installation & maintenance in case of bad weather conditions.
Proceed to a 30min operation before closing the luminaire.
Direct front access to lamp and gear box by removing the collar fixed with the stainless steel screws.



Syleos 300



Syleos T5



Sylvania Syleos

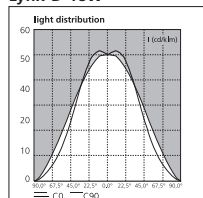
300 mm

- ORIENTATION LIGHTING, IDEALLY SUITED FOR IMPROVEMENT OF GREEN AREAS
- GARDENS, ILLUMINATIONS OF MONUMENTS
- BUILDING FACADES, WALKWAYS
- PRIVATE ACCESS AREAS

- Suitable for wall lighting
- Withstand to 2 tons at 20 Km/h
- Blue or White LED or compact fluorescent versions
- Lamp included



Lynx-D 18W



SYLEOS 300

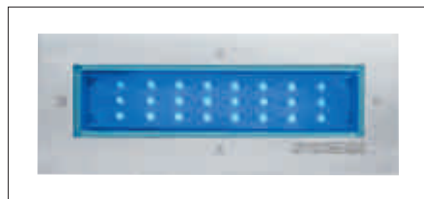
Light Source	Wattage	Flux / Intensity	Surface Temp	K	Art. Code
Lynx-D	18W	1200lm	60°C	4000	0053205
LED white	2.4W	192cd	40°C		0053206
LED blue	2.4W	96cd	40°C		0053207

ACCESSORY

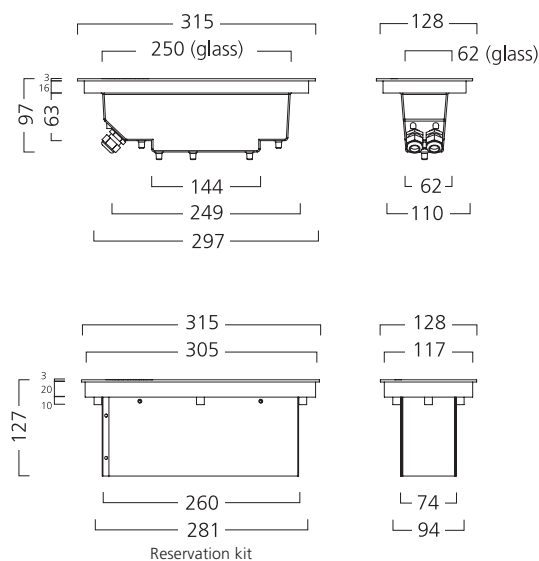
Description	Art. Code
Syleos 300 Stainless steel plate	5053214

Description

- Housing and closure in deep die cast aluminium dark grey powder coated.
- 12mm frosted (CFL) or clear (LED) tempered glass placed on a silicon gasket.
- Double M16 cable gland entry.
- For Lynx-D 18W lamp type included or LED on a PCB included operated on mains voltage.



Syleos 300 LED + Plate

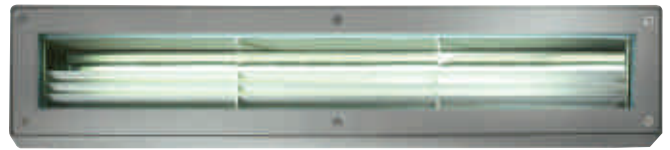


Sylvania Syleos

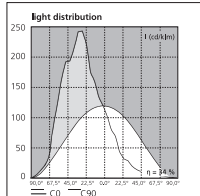
T5

- IDEALLY SUITED FOR IMPROVEMENT OF GREEN AREAS
- GARDENS, ILLUMINATIONS OF MONUMENTS
- BUILDING FACADES, WALKWAYS
- PRIVATE ACCESS AREAS

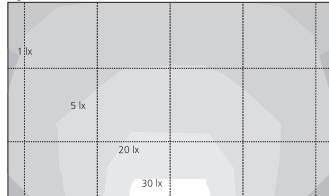
- Asymmetric version
- Anodised aluminium reflector
- Adjusted glare control louver
- Withstand to 2 tons at 20 km/h
- Lamp included



T5 1x14W



Syleos 600 at 0.5m



Description

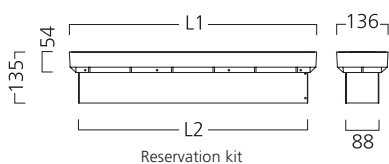
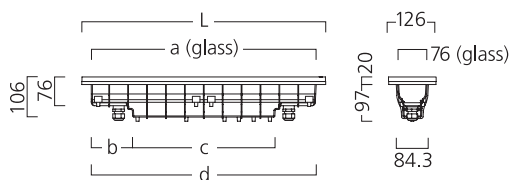
- Housing in deep die cast aluminium dark grey powder painted.
- 12mm cover plate.
- 10mm tempered glass placed on a silicon gasket.
- Anodised aluminium internal asymmetric reflector.
- Adjustable glare control louvre.
- Stainless steel fixing screws.
- Double M20 cable gland entry.
- For linear T5 FHE lamps included.

SYLEOS T5

Light Source	Wattage	Flux (lm)	Surface Temp	K	Art. Code
Syleos 600 T5 Coolwhite Deluxe	14W	1350	35°C	4000	0053208
Syleos 900 T5 Coolwhite Deluxe	21W	2100	35°C	4000	0053209
Syleos 1200 T5 Coolwhite Deluxe	28W	2900	35°C	4000	0053210

ACCESSORIES

Description	Art. Code
Syleos 600 Frosted glass	5053211
Syleos 900 Frosted glass	5053212
Syleos 1200 Frosted glass	5053213

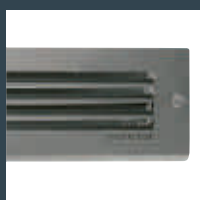


DIMENSIONS (MM)

Lamp	L	a	b	c	d	L1	L2
Syleos 600	645	594	109	377	595	654	606
Syleos 900	945	894	309	377	895	954	906
Syleos 1200	1245	1194	459	403	1195	1254	1206

Sylvania Wall Lighting

- Designed for large indoor & outdoor applications
- IP 65
- t_a 25°C



Mureo V & H



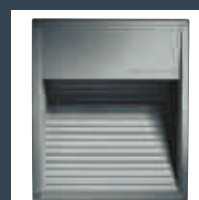
Rytmo



Rytmo AS



Borneo



Tanna



Makira 200

Description

Robust die-cast aluminium housing,
dark grey polyester powder coated.
Anti-corrosion painting treatment.
Silicone gaskets.
Supplied complete with gear box and lamp.
Appropriate recessed kit included.

Installation & Maintenance

Insert directly using the installation kit.
Ensure adequate drainage in the lower part
where there is a risk of water accumulation.
Ø22mm cable grommet entry.
Direct front access to lamp and gear box by removing
front frame fixed with the stainless steel screws.

Sylvania Mureo

Vertical / Horizontal

- WALL LIGHTING, FOR WALKWAYS
- PATHS AND ENTRANCES
- STEP LIGHTING FOR ACCESS AREAS

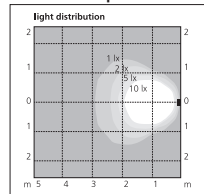
- Wall or step lighting
- Internal or external use
- Lamp included



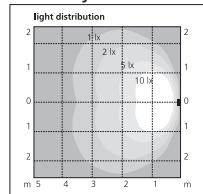
Horizontal Lynx-D



Vertical Hi-Spot ES50 50W

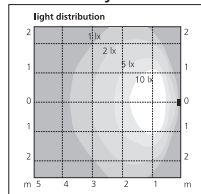


Vertical Lynx-D 18W



H = 1.0m

Horizontal Lynx-D 18W



Description

- Die cast aluminium frame with a 45° tilt protective grid.
- Protective glass 3mm deep.
- Anodised aluminium internal reflector.
- For Hi-Spot ES 50 lamp type or compact fluorescent lamp 18W G24d-2 type.

MUREO

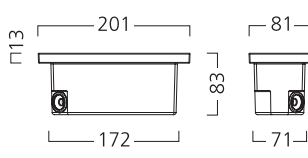
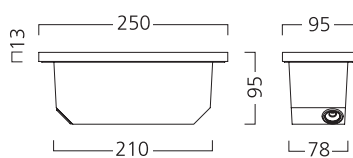
Light Source	Beam Angle	Wattage	Flux / Intensity	K	Art. Code
Vertical Halogen Hi-Spot ES50	25°	50W	1360cd	2750	0053120
Vertical Lynx-D		18W	1200lm	4000	0053121
Horizontal Lynx-D		18W	1200lm	4000	0053122



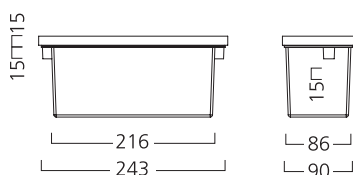
Vertical Halogen



Vertical Lynx-D



Halogen version



Reservation kit and fitting dimensions for both V & H Lynx-D versions

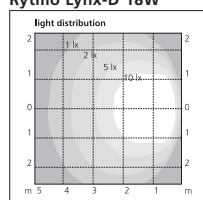
- Internal or external use
- Compact fluorescent 18W lamp included
- Die cast aluminium frame, 45° grid for Rytmo, glass for Rytmo C
- Asymmetric anodised aluminium reflector for Rytmo AS



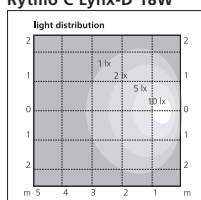
* Rytmo C&AS



Rytmo Lynx-D 18W

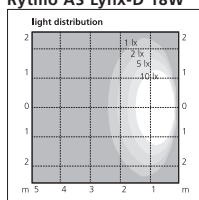


Rytmo C Lynx-D 18W



H=1.0m

Rytmo AS Lynx-D 18W



H = 1.0m

RYTMO C/AS

Light Source	Wattage	Flux (lm)	K	Art. Code
Rytmo Lynx-D	18W	1200	4000	0053125
Rytmo C Lynx-D	18W	1200	4000	0053127
Rytmo AS Lynx-D	18W	1200	4000	0053126

Description

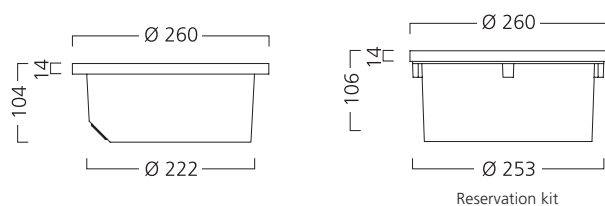
- Circular wall recessed.
- Dark grey anti-corrosion painted.
- Stainless steel screws.
- Single diameter 22mm cable grommet entry.
- Rytmo & Rytmo C: Protective glass 3mm deep.
- Rytmo AS: Die cast aluminium frame with protective glass 3mm thick.
- Compact fluorescent lamp 18W G24d-2 included.



Rytmo C



Rytmo AS



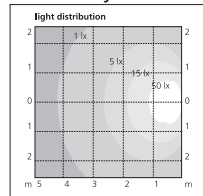
- Internal or external use
- Compact fluorescent lamp included
- Borneo 50: Die cast aluminium frame with 45° tilt and protective grid
- Borneo 100: Glass closure 3mm thick



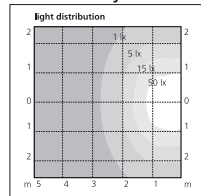
Borneo 50



Borneo 50 Lynx-S 11W



Borneo 100 Lynx-S 11W



H = 1.0m

BORNEO 50/100

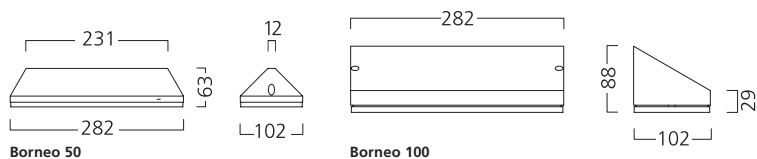
Light Source	Wattage	Flux (lm)	K	Art. Code
Borneo 50 Lynx-S	11W	900	4000	0053135
Borneo 100 Lynx-S	11W	900	4000	0053136

Description

- Rectangular wall surface mounted luminaire.
- Dark grey anti-corrosion painted.
- Stainless steel fixing screws.
- Single Ø22mm cable entry.
- Anodised aluminium internal reflector.
- Compact fluorescent lamp 11W G23 included.



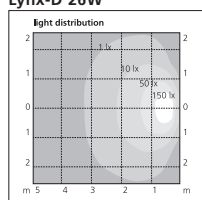
Borneo 100



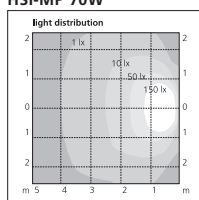
- Orientation lighting
- Internal or external use
- Metal halide or compact fluorescent lamp included
- Die cast aluminium housing, 3mm deep protective glass
- Asymmetric aluminium reflector



Lynx-D 26W



HSI-MP 70W



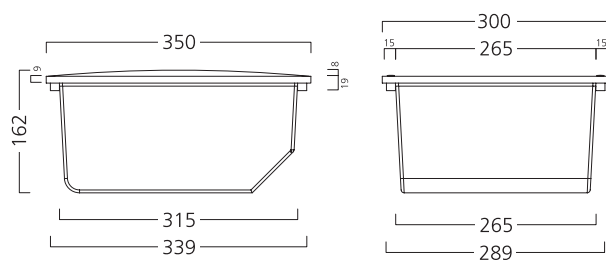
H = 1.0m

Description

- Rectangular wall recessed luminaire.
- Dark grey anti-corrosion painted.
- Stainless steel fixing screws.
- Single Ø 22mm cable entry.
- For metal halide 70W HSI-MP lamp included or compact fluorescent 26W lamp G24d-3 included.

TANNA

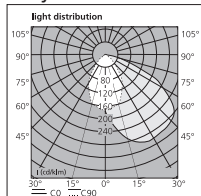
Light Source	Wattage	Flux (lm)	K	Art. Code
Lynx-D	26W	1800	4000	0053130
HSI-MP	70W	5500	3800	0053131



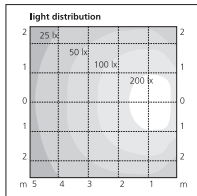
- Compact surface mounted luminaire
- Internal or external use
- For direct or indirect installations with a choice of extensive or intensive anodised aluminium reflectors
- Lamp included



AS Lynx-D 26W

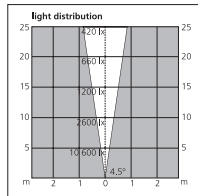


AS HSI-TD 70W

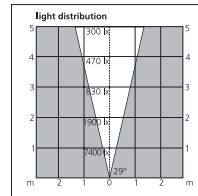


H = 3.0m

Narrow 70W



Wide 70W



Description

- Die cast aluminium housing with protective glass 3 mm deep.
- Dark grey anti corrosion painted.
- Stainless steel screws.
- Single Ø22mm grommet entry.
- For metal halide 35W CMI-T or 70W HSI-T / HSI-TD lamp types or compact fluorescent 26W lamp G24d-3 type included.
- Makira 200 AS uses asymmetric anodised aluminium reflectors.

MAKIRA 200

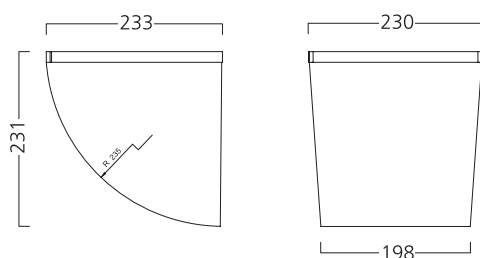
Light Source	Wattage	Flux (lm)	K	Beam	Art. Code
CMI-T	35W	3400	3000	Narrow	0053140
CMI-T	35W	3400	3000	Wide	0053141
HSI-T	70W	5200	4200	Narrow	0053142
HSI-T	70W	5200	4200	Wide	0053143

MAKIRA 200 AS

Light Source	Wattage	Flux (lm)	K	Beam	Art. Code
Lynx-D	26W	1800	4000	Asymmetric	0053144
HSI-TD	70W	5500	4200	Asymmetric	0053145



Makira 200 AS

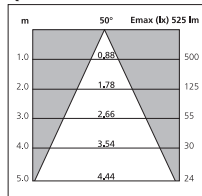


- FOR OUTDOOR OR INDOOR LIGHTING
- CAR PARKS, PLAYGROUNDS, GARDENS
- RUNWAYS

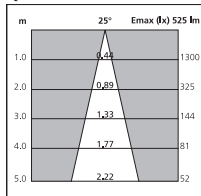
- Compact design
- Die-cast aluminium
- Available in 2 colours
- Easy installation and relamping
- Tilt 2x25°
- Hi-Spot ES50 lamp included



QPAR51 50W

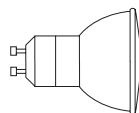


QPAR51 50W



Hi-Spot ES50

QPAR51 50W GU10



50W = 525 lm

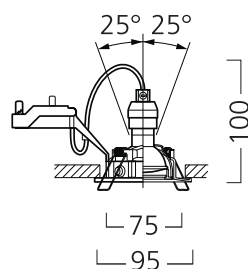
Description

Instar Trend 75 Swing IP44 Outdoor is an adjustable mains voltage downlight for GU10 lamps. These lamps are available in different beam angles and intensities. The fixtures are made of die cast aluminium with a front protection glass and have stainless steel springs and a special finishing of the aluminium parts for outdoor use.

INSET TREND 75 SWING IP44 OUTDOOR

supplied including Hi-Spot ES50 50W 25° lamp

Light Source	White	Anthracite
QPAR51 50W GU10	3074030	3074034

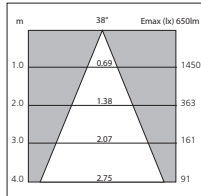


- FOR OUTDOOR OR INDOOR LIGHTING
- CAR PARKS, PLAYGROUNDS, GARDENS
- RUNWAYS

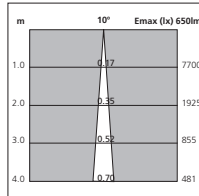
- Compact design
- Die-cast aluminium
- Chrome-coloured ring
- Tilt 2×25°
- Quick and easy installation and relamping



QR-CB51 35W

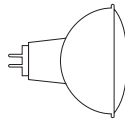


QR-CB51 35W



Superia 50

QR-CB51 35W GU/GX5.3



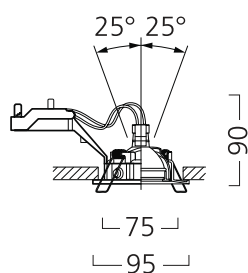
35W = 650 lm

Description

Instar Trend 75 Swing IP44 Outdoor is an adjustable low voltage downlight for QR-CB GU/GX5.3 lamps. These lamps are available in many different beam angles and intensities. The maximum power of the lamp is 35W. The fixtures are made of die cast aluminium with a front protection glass and have stainless steel springs and a special finishing of the aluminium parts for outdoor use.

INSTAR TREND 75 SWING IP44 OUTDOOR

Light Source	White	Anthracite
QR-CB51 35W GX/GU5	3079030	3079034



Lumiance Silo

- Outdoor fixtures for professional and domestic applications
- Stainless steel and die cast aluminium luminaires
- For compact fluorescent and mains voltage halogen lamps
- IP44 - IP67



A range of IP44 and IP67 stainless steel and die cast aluminium outdoor luminaires for energy saving compact fluorescent lamps and mains voltage halogen lamps. For professional and domestic applications. Range consist of stainless steel wall fixtures called Silo Wall Trend. The Silo range has a selection of fixtures like Bollard, Wall Surface and Recessed fixtures and Inground recessed products.



Silo Wall Trend



Silo Bollard XS/XL



Silo Wall Tube



Silo Wall Recessed



Silo Wall Surface



Silo Inground



Lumiance Silo

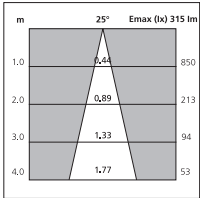
Wall Trend

- FOR OUTDOOR OR INDOOR LIGHTING
- CAR PARKS, PLAYGROUNDS, GARDENS
- RUNWAYS

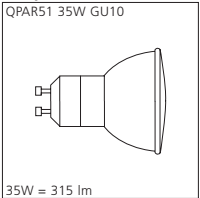
- Stainless steel
- Direct and indirect lighting
- Compact design
- For mains voltage halogen lamp



QPAR51 35W



Hi-Spot ES50

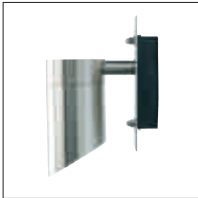


SILO WALL TREND

supplied with Hi-Spot ES50 35W 25° lamp(s)

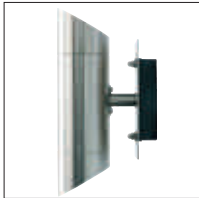
Light Source	Model	Stainless Steel
QPAR51 35W GU10	Direct	3063900
QPAR51 2x35W GU10	Direct + indirect	3063910

1x35W

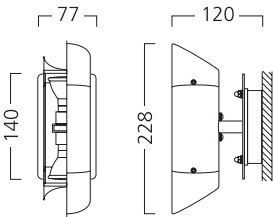


Wall Trend direct

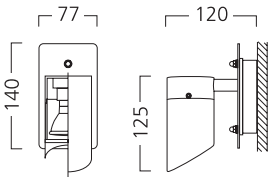
2x35W



Wall Trend direct and indirect



Wall Trend direct and indirect
2x35W



Wall Trend direct
1x35W

Lumiance Silo

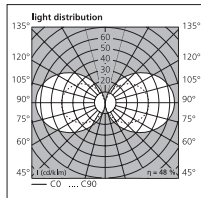
Bollard XS/XL

- FOR OUTDOOR OR INDOOR LIGHTING
- CAR PARKS, PLAYGROUNDS, GARDENS
- RUNWAYS

- Including floor mounting plate
- Built-in ballast for TC-S 11W
- Durable anthracite-coating
- Die-cast aluminium body
- Polycarbonate diffuser
- Easy installation



TC-S 11W



Lynx-S

TC-S 11W G23



11W = 900 lm



Bollard XL



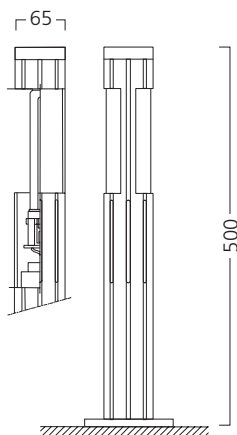
Bollard XS

SILO BOLLARD XS

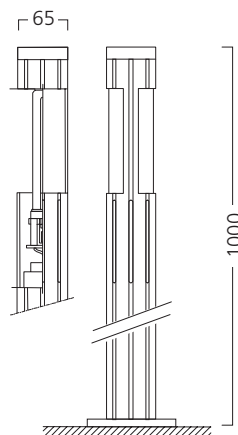
Light Source	Model	Anthracite
TC-S 11W G23	XS	3063950

SILO BOLLARD XL

Light Source	Model	Anthracite
TC-S 11W G23	XL	3063940



Bollard XS
11W



Bollard XL
11W

Lumiance Silo

Wall Tube

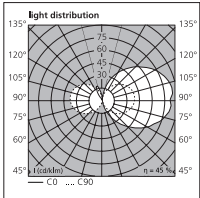
- FOR OUTDOOR OR INDOOR LIGHTING
- CAR PARKS, PLAYGROUNDS, GARDENS
- RUNWAYS



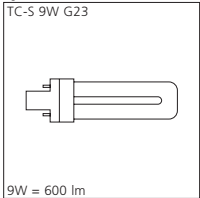
- Professional design
- Polycarbonate diffuser
- Easy installation
- Die-cast aluminium body
- For compact fluorescent TC-S 9W
- Durable anthracite coating



TC-S 9W

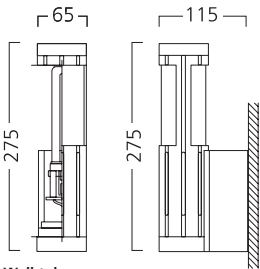


Lynx-S



SILO WALL TUBE

Light Source	Model	Anthracite
TC-S 9W G23	Tube	3063960



Wall tube
9W

Lumiance Silo

Wall Recessed

- FOR OUTDOOR OR INDOOR LIGHTING
- CAR PARKS, PLAYGROUNDS, GARDENS
- RUNWAYS

- Built-in ballast for TC-D 18W
- Die cast aluminium cover
- Two versions – vertical and horizontal
- Including recess box
- Durable anthracite coating

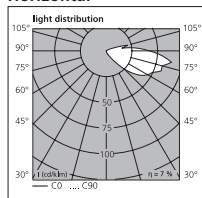


Horizontal

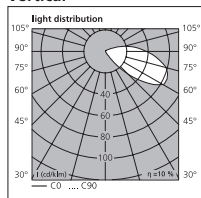


Vertical

Horizontal



Vertical



Lynx-D

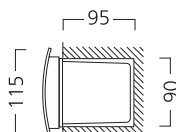
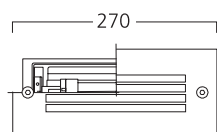
TC-D 18W G24d-2



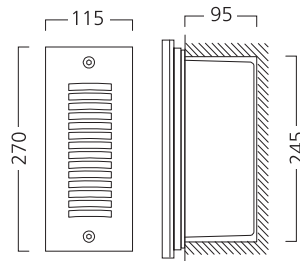
18W = 1200 lm

SILO WALL RECESSED

Light Source	Model	Brushed iron
TC-D 18W G24d-2	Recessed vertical	3063990
TC-D 18W G24d-2	Recessed horizontal	3064000



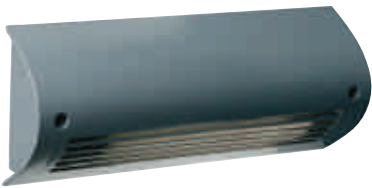
Wall recessed horizontal
minimum recess dimensions:
240-x90x95mm



Wall recessed vertical
minimum recess dimensions:
90-x245x95mm

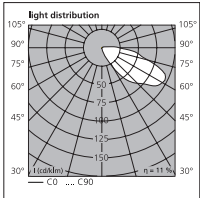
- FOR OUTDOOR OR INDOOR LIGHTING
- CAR PARKS, PLAYGROUNDS, GARDENS
- RUNWAYS

- Two versions available
- Die cast aluminium basis
- Durable anthracite-coating
- IP65 classification
- Built-in ballast

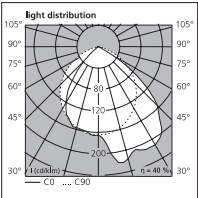


Surface

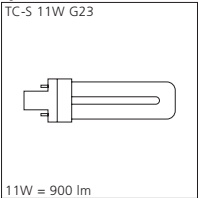
Wall Surface



Wall Surface Comfort



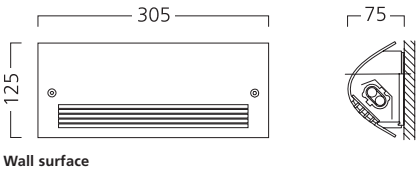
Lynx-S



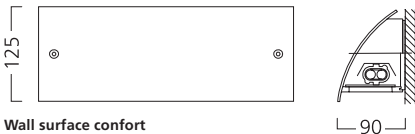
Surface comfort

SILO WALL SURFACE

Light Source	Model	Anthracite
TC-S 11W G23	Surface	3063970
TC-S 11W G23	Surface comfort	3063980



Wall surface

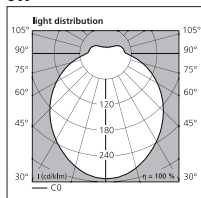


Wall surface confort

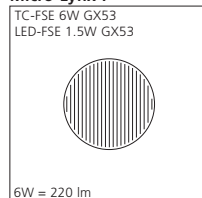
- For Micro-Lynx F / Micro-Lynx LED 1.5W lamps
- High impact resistant glass cover (IK09)
- Very low surface heating
- Mains voltage connecting cable
- Drive over possibility (2000kg at 10km/h)



6W



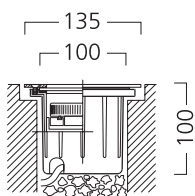
Micro-Lynx F



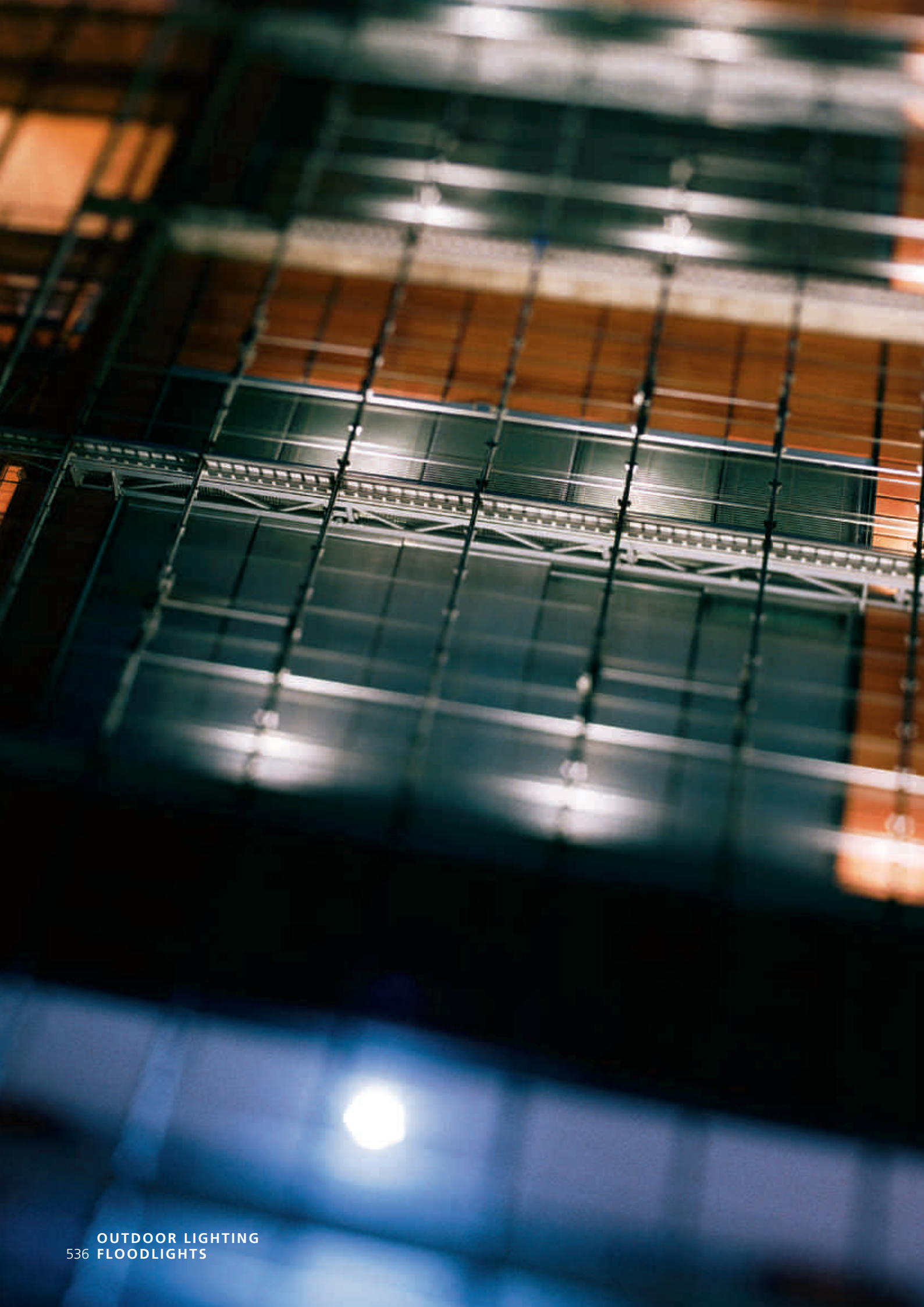
6W = 220 lm

SILO INGROUND ROUND

Light Source	Model	Stainl. steel
TC-FSE 6W / LED-FSE 1.5W GX53	Round	3064010
TC-FSE 6W / LED-FSE 1.5W GX53	Square	3064020



Inground round
minimum recess dimensions:
Ø125x105mm





Sylveo
540



FEH
547



FMD
548



FMD AS
550



FMD Circular
551



AL 300
552



Sunkat FMH
553



Naos
554

Sylveo

FEH

FMD

FMD AS

FMD Circular

AL 300

Sunkat FMH

Naos

Floodlights

Sylvania

Floodlight Range Summary

FLOODLIGHTS

AL 300



Sunkat FMH
200-500-1000-1500W



FEH Halogen
200-500-1000
1500-2000W



Sylveo Spot
120W



Sylveo 1
70-100-150W



LAMPS

Incandescent Tungsten Halogen and Mercury	HDE 150/200/300W-Rx7s	HDE 200/300/500/ 1000/1500W-Rx7s	HDE 200/300/500/ 1000/1500/2000W-Rx7s	PAR 38	HSL-SC 80W-E27
High Pressure Sodium					SHP-TS 70W-E27 / 150W-E40
Metal Halide					HSI-TD 70/150W-Rx7s HSI-MP 100W-E27
APPLICATIONS					
Stadium					
Sport fields		•	•		•
Tennis courts		•	•		
Swimming pools					•
Ice rinks					
Sports halls					
Velodromes					
Ski jumping		•	•		
Hippodromes					
Gymnasiums					
Illuminations		•	•	•	•
Parks and gardens		•	•	•	•
Facades	•	•	•	•	•
Advertising panels	•	•	•	•	•
Car Parks					•
Ports and docks					
Building sites					•
Warehousing areas					•
Marshalling yards					
Bypasses, interchanges, tolls					
Surveillance areas		•	•		
Pedestrian areas					•
Airports					
Airports terminals					•
Shopping arcades	•	•	•		•
Factories, warehouses					•

Floodlights	: Aluminium bodies, rectangular, asymmetrical or circular.
Control Gear	: Incorporated or separated.
Lamps Available	: Halogen, mercury, high pressure sodium or metal halide.

250-400W



1000W



2000W



1000-2000W



1000-2000W



OUTDOOR LIGHTING

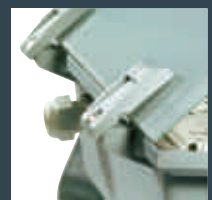
FLOODLIGHTS 539

Sylvania

Sylveo

SYLVEO is a 70W to 400W floodlight range covering most requirements. Extensive, Intensive and Asymmetric reflectors (light distribution) and a range of lamp types (colour rendering and efficiency) offered. Surface, ground or wall mounting options.

- Robust die-cast and streamlined aluminium body
- High optical performance
- Designed for large indoor and outdoor applications
- Gear box and lamp included
- IP 65 and t_a 40°C*



* external use

Product Description

Die-Cast LM6 aluminium 3mm thick body. Anti-Corrosive protection. Painted metallized grey polyester powder RAL 9006. Rear cooling fins contribute to reach $t_a 40^{\circ}\text{C}$.

A steel plate insures lamp and electrical compartment separation. A 5mm toughened printed glass and silicon gasket ensure closure to IP65.

The glass is fixed with two rotary anti-loss hinges supported at the bottom and two removable clips at the top.

Hinges and clips are aluminium. All anti-loss external screws are stainless steel.

Reflectors in highly polished and anodised aluminium (99.8%), hammered for symmetrical extensive and asymmetrical versions. Specifically designed to optimise performance.

Galvanized steel bracket, secured with stainless steel M10 screws.

Goniometers in polyamide PA66 insure a precise tilt on SYLVEO 2 both sides.



Sylveo 1



Sylveo 2

Features

- Surface, ground or wall mounting options.
- Suitable for a use upto 40°C ambient temperatures in external use.
- Supplied complete with gear box and lamp.
- Direct front access to lamp and gear box.
- Easy direct supply connection.
- Running temperature scale: from -30°C to $+40^{\circ}\text{C}$.

Electrical facilities

M20 cable gland (for $\varnothing 6$ to $\varnothing 12\text{mm}$ cables) insuring dust and waterproof connection and cord anchorage function. Ceramic Rx7s, E27 and E40 lamp holder. All components screwed on a separate sheet steel gear tray, 230V- 240V ballast double entries. Electromagnetic ballasts with thermal protection, superimposed or pulse ignitors, parallel compensation capacitor for high power factor. Tinned copper cables with silicone sheath.

Installation & Maintenance

- Release stainless steel fixing screws.
- Remove both upper sliding clips to open the glass lens.
- Install cable through the cable gland and connect it to the terminal block.
- Replace the glass closure and tighten the screws.
- Fix the safety bracket.
- Adjust the angle with the aid of the two goniometers.



Sylvania Sylveo 1

Extensive and intensive reflector

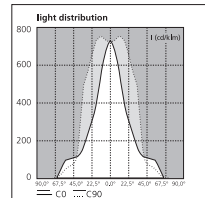
- SPORT PITCH, AIRPORT TERMINALS, PUBLIC GARDENS, PARKS, HISTORIC BUILDINGS, INDUSTRIAL BUILDINGS, FACTORIES, WAREHOUSES

- Robust die-cast and streamlined aluminium body
- High optical performance for external use
- Gear box and lamp included
- IP65, $t_a 40^\circ\text{C}^*$



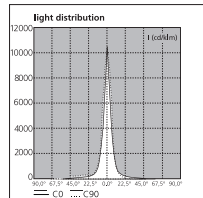
Wind exposed surface 0.11m²

HSI-TD 70W Extensive



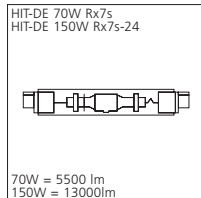
I max : 730 cd/klm
Transversal aperture: 2x18°
Longitudinal aperture: 2x35°

HSI-TD 70W Intensive



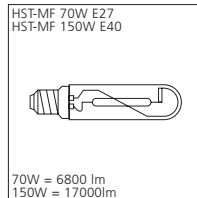
I max : 10500 cd/klm
Transversal aperture: 2x6°
Longitudinal aperture: 2x5°

HSI-TD



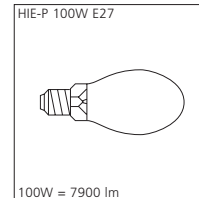
70W = 5500 lm
150W = 13000lm

SHP-TS



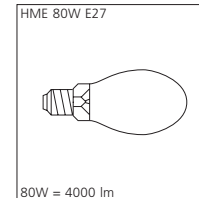
70W = 6800 lm
150W = 17000lm

HSI-MP



100W = 7900 lm

HSL-SC



80W = 4000 lm

EXTENSIVE

METAL HALIDE

Light Source	Colour Temp. (K)	Light Output (lm)	CRI Class	Current (A)	Voltage (V)	Art. Code
HSI-TD 70W Rx7s	4200	5800	1B	0.98	90	0039850
HSI-MP 100W E27	4000	8500	2A	1.15	105	0039851
HSI-TD 150W Rx7s-24	4200	13000	1B	1.8	95	0039853

HIGH PRESSURE SODIUM

SHP-TS 70W E27	2050	6800	4	0.98	90	0039854
SHP-TS 150W E40	2050	17000	4	1.8	100	0039855

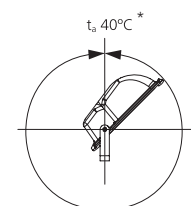
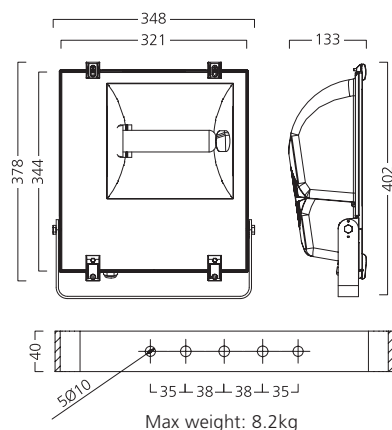
MERCURY

HSL-SC 80W E27	3400	4000	3	0.8	115	0039856
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INTENSIVE

METAL HALIDE

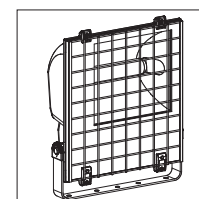
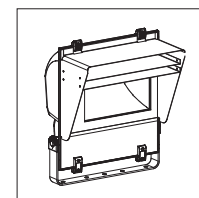
Light Source	Colour Temp. (K)	Light Output (lm)	CRI Class	Current (A)	Voltage (V)	Art. Code
HSI-TD 70W Rx7s	4200	5800	1B	0.98	90	0039857
HSI-TD 150W Rx7s-24	4200	13000	1B	1.8	95	0039858



* external use

ACCESSORIES

Description	Art. Code
Glare control visor	5039863
Protective grid	5039864



Description

Die cast LM6 aluminium 3mm thick body. Anti-corrosive protection. Painted metallised grey polyester powder RAL9006. Rear cooling fins to contribute to reach $t_a 40^\circ\text{C}$. Steel plate ensures lamp and electrical compartment separation. A 5mm toughened printed glass and silicon gasket ensures closure to IP65. Hinges and clips are aluminium. All anti-loss external screws are stainless steel. Reflectors in highly polished and anodised aluminium (99.8%), specifically designed to optimise performance. Galvanised steel bracket, secured with stainless M10 screws.

Sylvania Sylveo 1

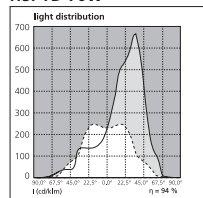
Asymmetric reflector

- SPORT PITCH, AIRPORT TERMINALS, PUBLIC GARDENS, PARKS, HISTORIC BUILDINGS, INDUSTRIAL BUILDINGS, FACTORIES, WAREHOUSES

- Robust die-cast and streamlined aluminium body
- High optical performance for external use
- Gear box and lamp included
- IP65, t_a 40°C*



HSI-TD 70W



—C0 ...C90
I max at 34° : 670 cd/klm
Transversal aperture: 7°- 48°
Longitudinal aperture: 2x34°

HSI-TD

HIT-DE 70W Rx7s
HIT-DE 150W Rx7s-24



70W = 5500 lm
150W = 13000 lm

SHP-TS

HST-MF 70W E27
HST-MF 150W E40



70W = 6800 lm
150W = 17000 lm

Description

Die cast LM6 aluminium 3mm thick body. Anti-corrosive protection. Painted metallised grey polyester powder RAL9006. Rear cooling fins to contribute to reach t_a 40 °C. Steel plate ensures lamp and electrical compartment separation. A 5mm toughened printed glass and silicon gasket ensures closure to IP65. Hinges and clips are aluminium. All anti-loss external screws are stainless steel. Reflectors in highly polished and anodised aluminium (99.8%), specifically designed to optimise performance. Galvanised steel bracket, secured with stainless M10 screws.

EXTENSIVE

METAL HALIDE

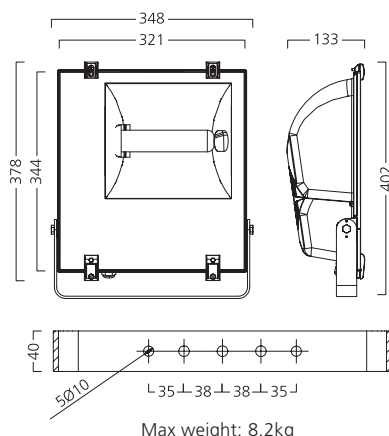
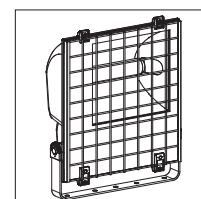
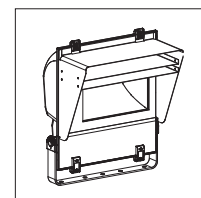
Light Source	Colour Temp. (K)	Light Output (lm)	CRI Class	Current (A)	Voltage (V)	Art. Code
HSI-TD 70W Rx7s	4200	5800	1B	0.98	90	0039859
HSI-TD 150W Rx7s-24	4200	13000	1B	1.8	95	0039860

HIGH PRESSURE SODIUM

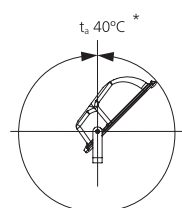
SHP-TS 70W E27	2050	6800	4	0.98	90	0039861
SHP-TS 150W E40	2050	17000	4	1.8	100	0039862

ACCESSORIES

Description	Art. Code
Glare control visor	5039863
Protective grid	5039864



Max weight: 8.2kg



* external use

Sylvania Sylveo 2

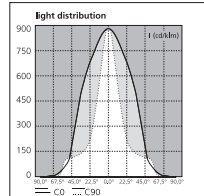
Extensive and intensive reflector

- SPORT PITCH, GYMNASIUMS, HIPPODROMES, AIRPORT TERMINALS, PUBLIC GARDENS, PARKS, HISTORIC BUILDINGS, INDUSTRIAL BUILDINGS, FACTORIES, WAREHOUSES

- Robust die-cast and streamlined aluminium body
- High optical performance for external use
- Gear box and lamp included
- IP65, t_a 40°C *

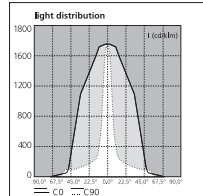


SHP-TS 400W Extensive



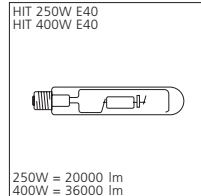
I max: 880 cd/klm
Transversal aperture: 2x15°
Longitudinal aperture: 2x35°

SHP-TS 400W Intensive



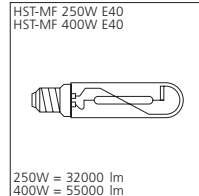
I max: 1750 cd/klm
Transversal aperture: 2x6°
Longitudinal aperture: 2x35°

HSI-THX



250W = 20000 lm
400W = 36000 lm

SHP-TS



250W = 32000 lm
400W = 55000 lm

Description

Die cast LM6 aluminium 3mm thick body. Anti-corrosive protection. Painted metallised grey polyester powder RAL9006. Rear cooling fins to contribute to reach t_a 40 °C. Steel plate ensures lamp and electrical compartment separation. A 5mm toughened printed glass and silicon gasket ensures closure to IP65. Hinges and clips are aluminium. All anti-loss external screws are stainless steel. Reflectors in highly polished and anodised aluminium (99.8%), specifically designed to optimise performance. Galvanised steel bracket, secured with stainless M10 screws. Goniometers in polyamide PA66 insure precise tilt on SYLVEO 2 both sides.

EXTENSIVE

METAL HALIDE

Light Source	Colour Temp. (K)	Light Output (lm)	CRI Class	Current (A)	Voltage (V)	Art. Code
HSI-THX 250W E40	4500	20000	2B	2.1	130	0039865
HSI-THX 400W E40	4200	36000	2B	3.4	130	0039866

HIGH PRESSURE SODIUM

SHP-TS 250W E40	2050	32000	4	2.95	100	0039867
SHP-TS 400W E40	2050	55000	4	4.5	100	0039868

EMPTY VERSION

Sylveo 2 E40	0039880
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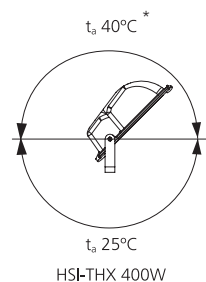
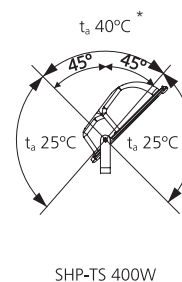
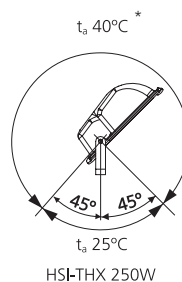
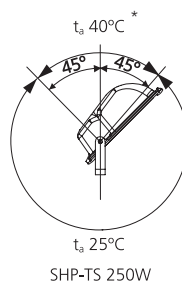
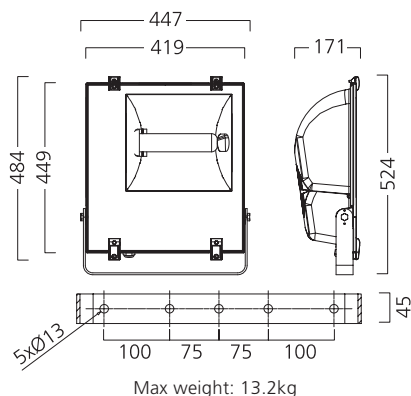
INTENSIVE

METAL HALIDE

Light Source	Colour Temp. (K)	Light Output (lm)	CRI Class	Current (A)	Voltage (V)	Art. Code
HSI-THX 250W E40	4500	20000	2B	2.1	130	0039869
HSI-THX 400W E40	4200	36000	2B	3.4	130	0039870

HIGH PRESSURE SODIUM

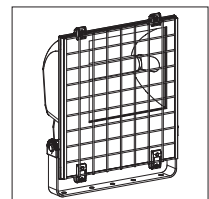
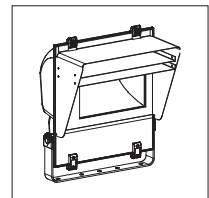
SHP-TS 250W E40	2050	32000	4	2.95	100	0039871
SHP-TS 400W E40	2050	55000	4	4.5	100	0039872



* external use

ACCESSORIES

Description	Art. Code
Glare control visor	5039877
Protective grid	5039878



Sylvania Sylveo 2

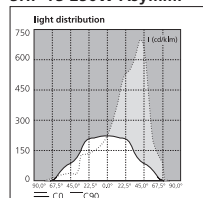
Asymmetric reflector

- SPORT PITCH, GYMNASIUMS, HIPPODROMES, AIRPORT TERMINALS, PUBLIC GARDENS, PARKS, HISTORIC BUILDINGS, INDUSTRIAL BUILDINGS, FACTORIES, WAREHOUSES

- Robust die-cast and streamlined aluminium body
- High optical performance for external use
- Gear box and lamp included
- IP65, t_a 40°C*



SHP-TS 250W Asymm.



I max at 41°: 700 cd/klm
Transversal aperture: 11°- 52°
Longitudinal aperture: 2x37°

HSI-THX

HIT 250W E40
HIT 400W E40



250W = 20000 lm
400W = 36000 lm

SHP-TS

HST-MF 250W E40
HST-MF 400W E40



250W = 32000 lm
400W = 55000 lm

Description

Die cast LM6 aluminium 3mm thick body. Anti-corrosive protection. Painted metallised grey polyester powder RAL9006. Rear cooling fins to contribute to reach t_a 40 °C. Steel plate ensures lamp and electrical compartment separation. A 5mm toughened printed glass and silicon gasket ensures closure to IP65. Hinges and clips are aluminium. All anti-loss external screws are stainless steel. Reflectors in highly polished and anodised aluminium (99.8%), specifically designed to optimise performance. Galvanised steel bracket, secured with stainless M10 screws. Goniometers in polyamide PA66 insure precise tilt on SYLVEO 2 both sides.

ASYMMETRIC

METAL HALIDE

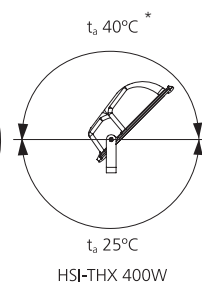
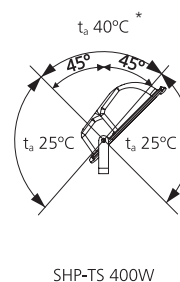
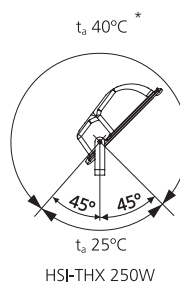
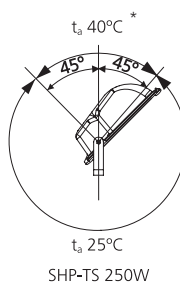
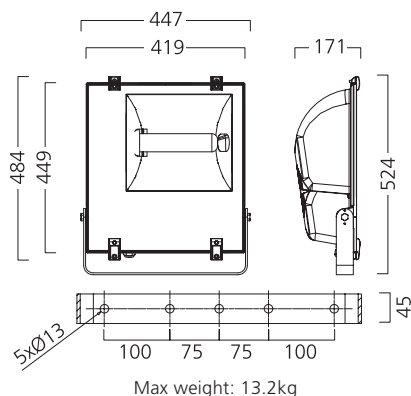
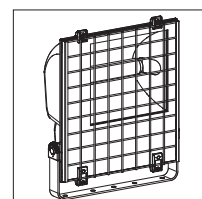
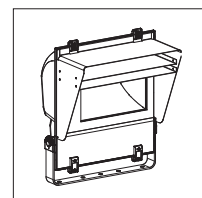
Light Source	Colour Temp. (K)	Light Output (lm)	CRI Class	Current (A)	Voltage (V)	Art. Code
HSI-THX 250W E40	4500	20000	2B	2.1	130	0039873
HSI-THX 400W E40	4200	36000	2B	3.4	130	0039874

HIGH PRESSURE SODIUM

SHP-TS 250W E40	2050	32000	4	2.95	100	0039875
SHP-TS 400W E40	2050	55000	4	4.5	100	0039876

ACCESSORIES

Description	Art. Code
Glare control visor	5039877
Protective grid	5039878



* external use

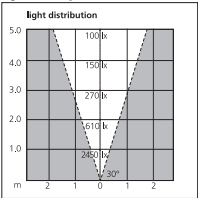
Sylvania Sylveo Spot

- PARKS AND GARDENS, FACADES
- DECORATIVE ILLUMINATIONS

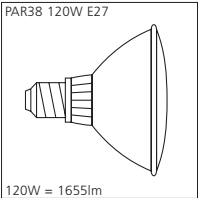
- Compact design, diameter 182mm
- Simple to use with looping facility and easy to install
- Direct front access to 30° 120W lamp
- Lamp included



Sylveo Spot PAR38 120W



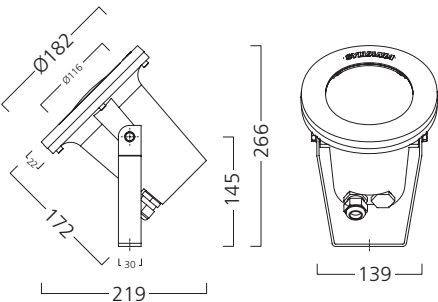
PAR38



Description
SYLVEO SPOT is an easy solution for floodlighting. Delivered with its PAR 38 lamp suitable for exterior applications. Front rim seals the spot up by screwing in the lamp glass. Die cast aluminium, grey polyester painted housing. Double M20 entries, one cable gland and one cable grommet. t_a 25°C.

SYLVEO SPOT

Light Source	Beam Angle	Art. Code
PAR38 120W E27	30°	0053227



Sylvania FEH

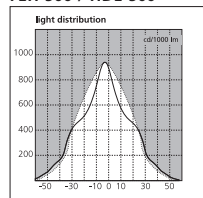
Halogen lamps

- BUILDING SITES, QUAYS, CONSTRUCTION SITES, ADVERTISING PANELS, CAR PARKS, SPORTING FACILITIES, PROTECTIVE LIGHTING AND SECURITY

- Robust and economical floodlight
- Connection block for fast installation
- Cooling fins to disperse heat buildup
- Intensive optics from aluminium reflector

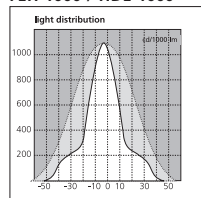


FEH 500 / HDE 500



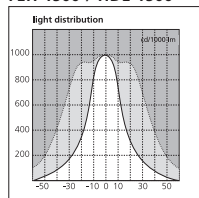
— Transversal plane
 ----- Longitudinal plane
 Transversal aperture: 2x15°
 Longitudinal aperture: 2x23°

FEH 1000 / HDE 1000



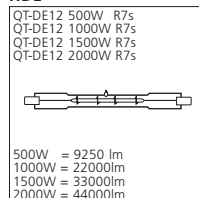
— Transversal plane
 ----- Longitudinal plane
 Transversal aperture: 2x11°
 Longitudinal aperture: 2x30°

FEH 1500 / HDE 1500



— Transversal plane
 ----- Longitudinal plane
 Transversal aperture: 2x11°
 Longitudinal aperture: 2x30°

HDE



QT-DE12 500W R7s
 QT-DE12 1000W R7s
 QT-DE12 1500W R7s
 QT-DE12 2000W R7s

500W = 9250 lm
 1000W = 22000lm
 1500W = 33000lm
 2000W = 44000lm

Description

Extruded aluminium anodised finish body and frame resistant to corrosion. Cooling fins ensuring an increased lamp longevity. Toughened with integral reinforcing lines protective glass, silicone gasket resistant to wide thermal variations. Security lamp holder and high temperature wiring. Variable fixing support for flexibility.

Installation & Maintenance

Fixing and secured with 3 holes in the bracket. Adjustable on site. Access to the lamp through opening of the frame.

FEH

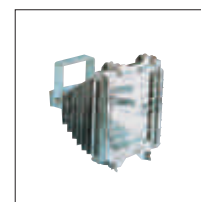
Description	Art. Code
FEH 500W R7s	0043180
FEH 1000W R7s	0043181
FEH 1500W R7s	0043182
FEH 2000W R7s	0043583

VISOR ACCESSORY

Description	Art. Code
Visor for FEH 500W R7s	0043196
Visor for FEH 1000W R7s	0043197
Visor for FEH 1500W R7s	0043198
Visor for FEH 2000W R7s	0043199



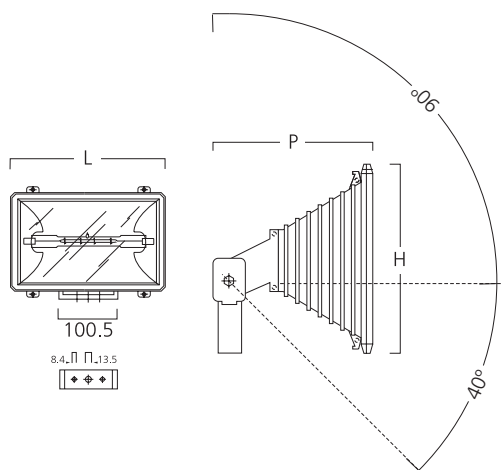
Visor



Protective grid

PROTECTIVE GRID ACCESSORY

Protective grid for FEH 500W R7s	0043200
Protective grid for FEH 1000W R7s	0043201
Protective grid for FEH 1500W R7s	0043202
Protective grid for FEH 2000W R7s	0043203



DIMENSIONS (MM)

	L	P	H	Weight (kg)
FEH 500	205	265	250	3.00
FEH 1000	275	265	250	3.30
FEH 1500	340	265	250	3.70
FEH 2000	455	265	250	5

Sylvania FMD 1000

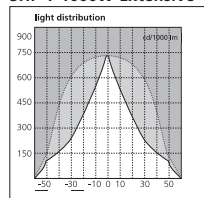
Rectangular (Separate control gear)

- LIGHTING OF LARGE SPORTING, COMMERCIAL AND INDUSTRIAL FACILITIES

- Easy to install and maintain
- Choice of reflectors: extensive or intensive

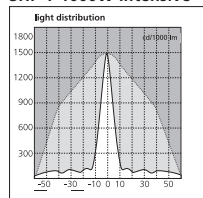


SHP-T 1000W Extensive



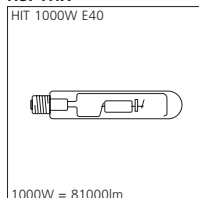
— Transversal plane
 ----- Longitudinal plane
 Transversal aperture: 2x22°
 Longitudinal aperture: 2x45°

SHP-T 1000W Intensive



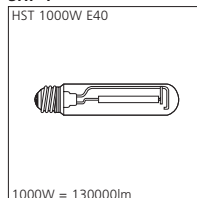
— Transversal plane
 ----- Longitudinal plane
 Transversal aperture: 2x8°
 Longitudinal aperture: 2x44°

HSI-THX



1000W = 81000lm

SHP-T



1000W = 130000lm

Description

Injected aluminium alloy frame and body, black coated polyester anti-corrosive protection. Reinforced protective glass and silicone gasket. Intensive or extensive reflector in specular or hammered aluminium. Adjustable E40 lamp holder with safety catch. Supply cable entry through a Ø10 mm cable gland. Fixing bracket for adjustment on site.

Installation & Maintenance

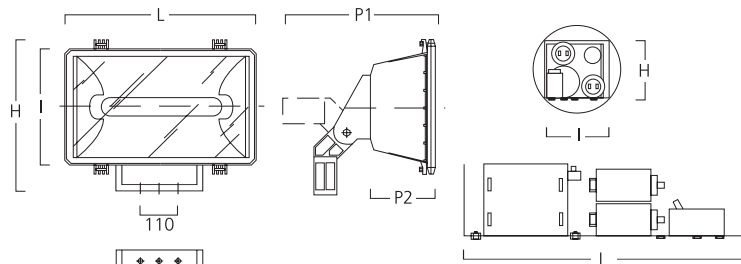
Fix and secured with 3 holes in the bracket. Adjustable on site. Access to the lamp by opening the frame. Separate control gear, to be ordered with corresponding gear tray.

FMD 1000

Description	Art. Code
FMD 1000 extensive	0043714
FMD 1000 intensive	0043763

GEAR TRAY

Description	Art. Code
SHP-T 1000W AIT2-230V E40	9058395
HSI-THX 1000W AIP-230V E40	9058398



FMD 1000
 3 holes Ø10mm

SHP-T 1000/HSI-T 1000 gear tray

DIMENSIONS (MM)

	L	I	P1	P2	H	Weight (kg)
Floodlight						
FMD 1000	560	350	450	190	445	10.6
Gear tray						
SHP-T 1000W	590	103			100	13.21
HSI-T 1000W	590	103			100	11.32

Sylvania FMD 2000

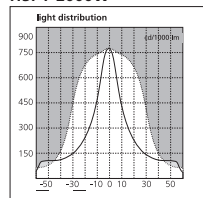
Rectangular (Separate control gear)

- LIGHTING OF LARGE SPORTING, COMMERCIAL AND INDUSTRIAL FACILITIES

- Easy to install and maintain
- Extensive reflector



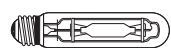
HSI-T 2000W



— Transversal plane
 ---- Longitudinal plane
 Transversal aperture: 2x10°
 Longitudinal aperture: 2x33°

HSI-TS

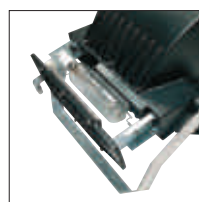
HSI-TS 2000W E40



2000W = 200000lm



Tilting adjustment



Access to the lamp through back

Description

Injected aluminium alloy body black polyester coated anti-corrosive protection. Protective reinforced glass with silicone gasket. Extensive reflector in hammered aluminium. E40 adjustable lamp holder with safety catch. Supply cable entry through a Ø14 mm cable gland. Fixing bracket for adjustment on site.

Installation & Maintenance

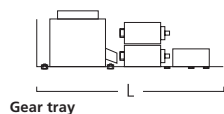
Fix and secured with 5 holes in the bracket. Adjustable on site. Access to the lamp through the back enabling easy installation of the lamp supported on both ends. Separate control gear, to be ordered with corresponding gear tray.

FMD 2000

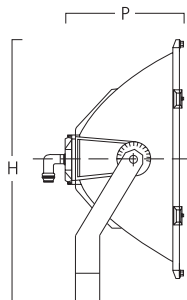
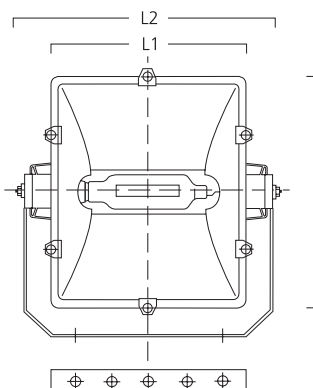
Description	Art. Code
FMD 2000 extensive	0043726

GEAR TRAY

Light Source	Art. Code
HSI-TS 2000W 400V with ignitor	9058399
HSI-TS 2000W 400V without ignitor	5059494



Gear tray



FMD 2000
 5 holes Ø16.5mm



DIMENSIONS (MM)

	L	L1	L2	I	P	H	Weight (kg)
Floodlight							
FMD 2000	-	560	770	680	370	370	23.6
Gear tray							
HSI-T 2000W/400V	550	-	-	140	-	115	18.3

Sylvania FMD 1000/2000

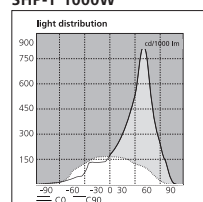
Asymmetrical (Separate control gear)

- SPORTING FACILITIES, ICE SKATING RINKS, WAREHOUSES AND WIDE OPEN SPACES, DOCKS, INTERCHANGES, MARSHALLING, YARDS OR AIRPORTS

- Asymmetrical distribution
- Reducing glare



SHP-T 1000W



— Transversal plane
 ---- Longitudinal plane
 Max. at $j=40^\circ$
 Transversal aperture: 38°

SHP-T

HST 1000W E40



1000W = 130000lm

HSI-THX

HIT 1000W E40
 HIT 2000W E40



1000W = 81000lm
 2000W = 200000lm

Description

Injected aluminium alloy body black polyester coated anti-corrosive protection. Protective glass (1000W) or reinforced glass (2000W) and silicone gasket. Asymmetrical reflector in hammered aluminium. Adjustable E40 lamp holder with safety catch. Supply cable entry through a $\varnothing 10$ mm cable gland (1000W), or $\varnothing 14$ mm one (2000W). Fixing bracket for adjustment on site.

Installation & Maintenance

Fix and secured with 3 holes in the bracket. Adjustable on site. Access to the lamp through the frame (1000W) or through the back (2000W). Separate control gear, to be ordered with corresponding gear tray.



FMD 1000/2000 AS

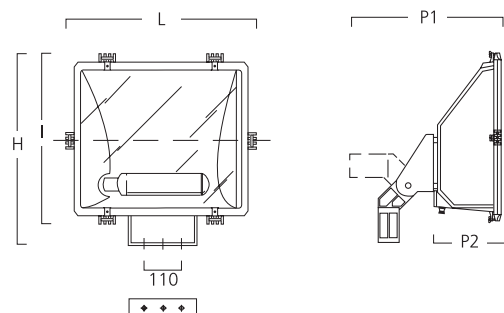
Description	Art. Code
FMD 1000 AS	0039449
FMD 2000 AS	0039450

GEAR TRAY

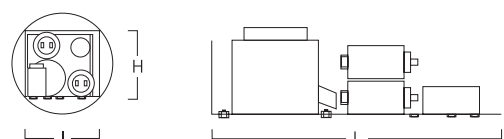
Light Source	Art. Code
SHP-T 1000W AIT2 230V E40	9058395
HSI-THX 1000W AIP 230V E40	9058398
HSI 2000W 400V E40 with Ignitor	9058399
HSI 2000W 400V E40 without Ignitor	5059494

DIMENSIONS (MM)

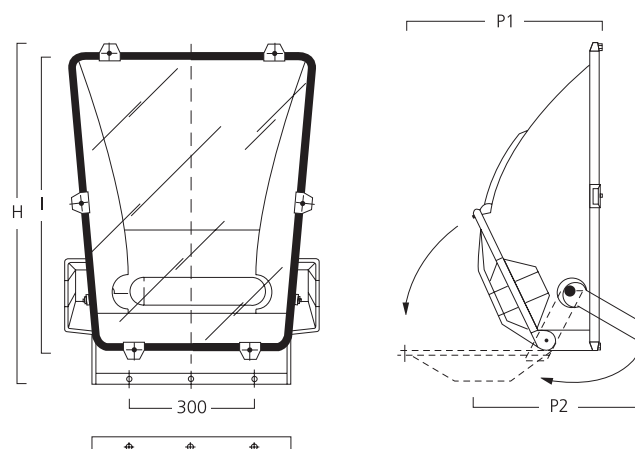
	L	I	P1	P2	H	Weight(kg)
Floodlight						
FMD 1000 AS	560	490	445	220	560	13
FMD 2000 AS	680	870	560	410	1000	30
Gear tray						
9058395	590	103	-	-	100	13.21
9058398	590	103	-	-	100	11.32
9058399	550	140	-	-	115	-
5059494	550	140	-	-	115	-



Gear tray HSI-T 1000/2000 or SHP-T 1000



FMD 1000 AS
 3 holes $\varnothing 10$ mm



FMD 2000 AS
 3 holes $\varnothing 25$ mm

Sylvania FMD 1000/2000

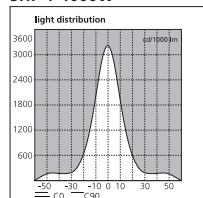
Circular (Separate control gear)

- SPORTS FIELDS, OPEN SPACES, BUILDING ILLUMINATION, MARSHALLING YARDS, TOLLS AND INTERCHANGES

- Circular floodlight with protected reflector
- Narrow beam

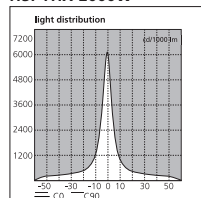


SHP-T 1000W



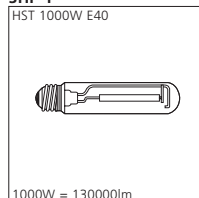
Transversal plane
Transversal aperture: 2x12°

HSI-THX 2000W



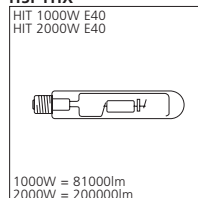
Transversal plane
Transversal aperture: 2x5°

SHP-T



1000W = 130000lm

HSI-THX



1000W = 81000lm
2000W = 200000lm

Description

Injected aluminium alloy body and frame, black polyester coated anti-corrosive protection. Reinforced protective glass and silicone gasket. Intensive reflector in specular aluminium. E40 adjustable lamp holder with safety catch. Supply cable entry through a Ø10 mm cable gland (1000W) or Ø14 mm one (2000W). Fixing bracket for adjustment on site

Installation & Maintenance

Fix and secured with 3 holes in the bracket. Adjustable on site. Access to the lamp through the back or by opening of the glass (avoid lamps). Separate control gear, to be ordered with corresponding gear tray.

FMD 1000/2000 CIRCULAR

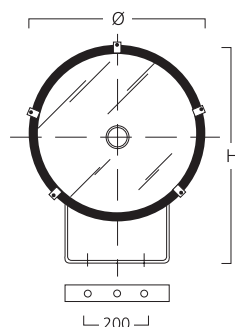
Description	Art. Code
FMD 1000	0039452
FMD 2000	0039453

GEAR TRAY

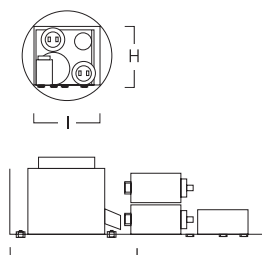
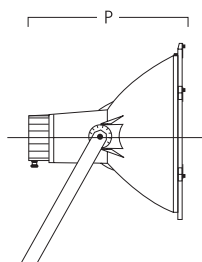
Light Source	Art. Code
SHP-T 1000W AIT2 230V E40	9058395
HSI-THX 1000W AIP 230V E40	9058398
HSI 2000W 400V E40 with Ignitor	9058399
HSI 2000W 400V E40 without Ignitor	5059494

DIMENSIONS (MM)

	Ø	P	H	L	I	Weight (kg)
Floodlight						
FMD 1000 Circular	618	530	780	-	-	17.1
FMD 2000 Circular	860	625	960	-	-	25.4
Gear tray						
9058395	-	-	100	590	103	13.21
9058398	-	-	100	590	103	11.32
9058399	-	-	115	550	140	-
5059494	-	-	115	550	140	-



FMD 1000/2000 circular
3 holes Ø16.5mm



Gear tray HSI-T 1000/2000 or SHP-T 1000

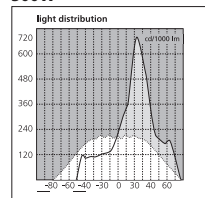
Sylvania AL 300

- UNDERCANOPY FACADE LIGHTING, ADVERTISING PANELS IN SHOPPING ARCADES, SHOP WINDOWS

- Compact Floodlight
- Protective glass
- Halogen lamp
- Asymmetrical reflector



300W



— Transversal plane
----- Longitudinal plane
Max at j=26°
Transversal aperture: 30°
Longitudinal aperture: 2x54°

HDE

QT-DE12 150W R7s
QT-DE12 200W R7s
QT-DE12 300W R7s



150W = 1875lm
200W = 3000lm
300W = 5000lm

AL 300

Description	White	Black
AL 300W R7	0039526	0039527

ACCESSORIES

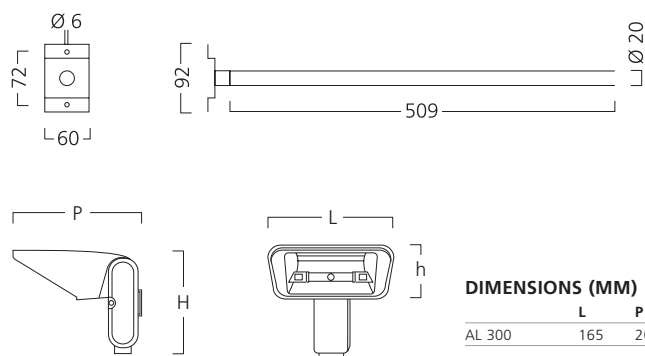
Description	White	Black
0,5m Bracket	0039524	0039520

Description

Injected aluminium alloy body, black or white polyurethane coated anti-corrosive protection. Tempered protective glass (5 mm) fixed by a single clip. Asymmetrical reflector in specular aluminium. Polyamide moulded connection block with Ø10 mm cable gland entry. Fixing brace provided with the fixture. Fixing arrangement enables an easy floodlight repositioning direction. Facility to install the fixture on a bracket. 230 V/50 Hz.



White version



DIMENSIONS (MM)

	L	P	h	H	Weight (kg)
AL 300	165	205	70	115	0.75



Sylvania FMH

Sunkat

- FOR OUTDOOR OR INDOOR LIGHTING, E.G. ILLUMINATIONS, ADVERTISING PANELS, SHOP WINDOWS, CONSTRUCTION SITES, CAR PARKS

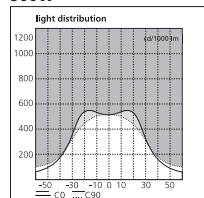
- Compact Floodlight
- Cost effective space illumination



* Except FMH 500W, IP54, IK05

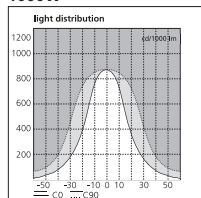


500W



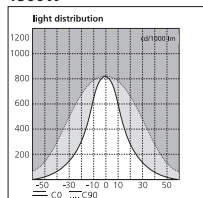
— Transversal plane
----- Longitudinal plane
Transversal aperture: 2x35°
Longitudinal aperture: 2x36°

1000W



— Transversal plane
----- Longitudinal plane
Transversal aperture: 2x16°
Longitudinal aperture: 2x33°

1500W



— Transversal plane
----- Longitudinal plane
Transversal aperture: 2x15°
Longitudinal aperture: 2x35°

HDE

QT-DE12 500W R7s
QT-DE12 1000WR7s
QT-DE12 1500WR7s



500W = 9500lm
1000W = 22000lm
1500W = 33000lm

Description

Injected aluminium alloy body and frame, black or white polyurethane coated anti-corrosive protection. Tempered protective glass, silicone gasket. Extensive reflector in hammered aluminium. R7s security lamp holder and high temperature wiring. Connection block isolated from the body with Ø10 mm cable gland. Adjustable fixing bracket. 230 V/50 Hz.

Installation & Maintenance

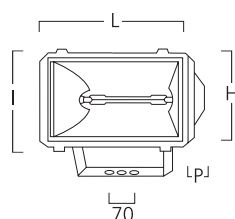
Fixing and secured with 3 holes in the bracket. Adjustable on site. Access to lamp by opening the frame.

SUNKAT FMH

Description	White	Black
FMH 500W R7s	0043817	0043758
FMH 1000W R7s		0043740
FMH 1500W R7s		0043741



White version



Sunkat FMH
3 holes Ø9.5mm

DIMENSIONS (MM)

	L	I	P	H	V(m3)	Weight(kg)
FMH 500	191	155	140	265	0.006	2.00
FMH 1000	325	226	170	390	0.019	3.10
FMH 1500	392	226	170	390	0.022	3.50

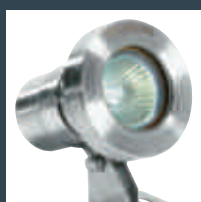
Sylvania

Naos

- Stainless steel or brass die cast housings
- Designed for large applications
- Supplied complete with lamp
- H07RNF cable pre-connected with 3m length extra
- IP 68 1m
- t_a 25°C
- Direct front access to lamp and gear box



Naos is an underwater product range for fountain and pool lighting.
It exists in different diameters, using very low voltage LED and halogen lamps.



Naos 83



Naos 135



Naos 220



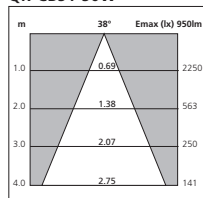
Naos Box



- Compact submersible stainless steel spotlight - IP68 1m
- 3 meters H07RNF cable connected
- Lamp included

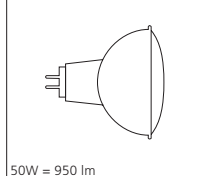


QR-CB51 50W



Superia 50

QR-CB51 50W GU5.3



Description

11mm thick protective glass. Suitable for unsalted water. Stainless steel fixing screws. Cylindrical disc screwed on, finishing the product design.

For LED lamp type operated on 24V.
Or Halogen 50W GX/GU5.3 lamp type operated on 12V included.

NAOS 83

Light Source	Beam	Wattage	Flux / Intensity	Art. Code
24 LED white		2W	192cd	0053242
24 LED blue		2W	96cd	0053243
QR-CB51	38°	50W	2250lm	0053241

ACCESSORY

Description	Art. Code
24V converter 0.6A max*	5053246

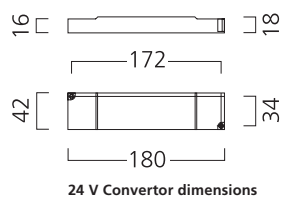
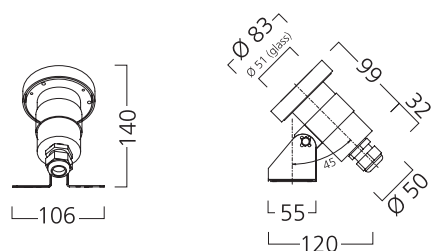
* Suitable for 7 Naos LED max.



LED blue



LED white

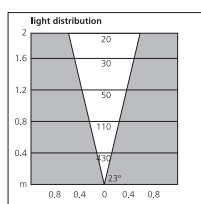


Sylvania Naos

135

- UNDERWATER LIGHTING FOR FOUNTAINS, POOLS AND DECORATIVE PONDS

- Compact submersible spot light
- Stainless steel
- Lamp included



NAOS 83

Light Source	Wattage	Flux / Intensity	Art. Code
Flat 54 LED white	4.5W	432cd	0053239
Flat 54 LED blue	4.5W	216cd	0053240

ACCESSORY

Description	Art. Code
24V convertor 0.6A max*	5053246

* Suitable for 3 Naos LED max.

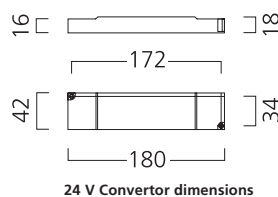
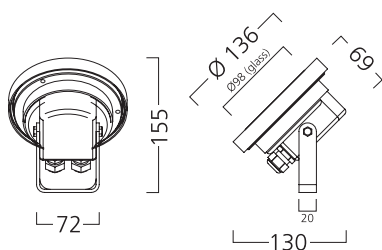
Description

11mm thick protective glass. Suitable for unsalted water. Stainless steel screws. Double M16 cable gland entry. Cylindrical disc screwed on, finishing the product design.

For LED lamp type operated on 24V.



LED white



Sylvania Naos

220

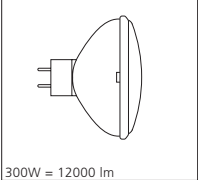
- UNDERWATER LIGHTING FOR FOUNTAINS, POOLS AND DECORATIVE PONDS

- Compact submersible spot light
- Needs to be installed in water
- Brass die cast
- Lamp included



PAR 56

PAR 56 300W GX16d



300W = 12000 lm

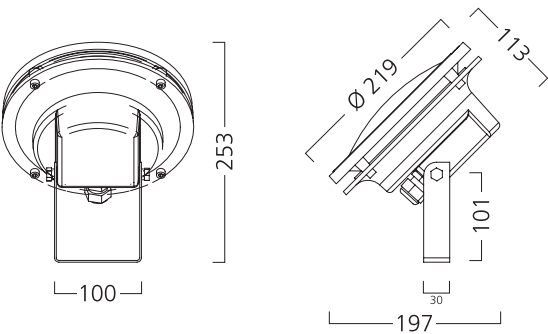
NAOS 220

Light Source	K	Flux	Art. Code
PAR 56 300W GX16d	3000	12000lm	0053244



Description
Brass die cast. Suitable for unsalted water.
Operating on very low voltage.

For Halogen 300W PAR 56 lamp type
operated on 12V included.



Sylvania Naos

Connecting Box

- UNDERWATER LIGHTING FOR FOUNTAINS, POOLS AND DECORATIVE PONDS

- Die-cast aluminium housing
- Housing for lamp transformer



NAOS BOX

Light Source

Art. Code

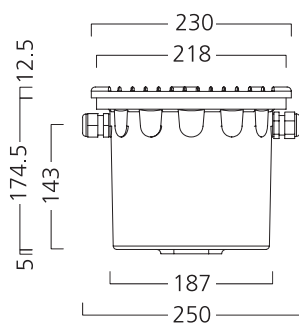
Naos connecting box

0053245

Description

Anti-corrosion treatment.

Twelve M20 cable entries, two delivered with cable glands others with screwed M20 grommets. Both in nickel steel.





EXTERIOR LIGHTING
560 POLE TOP



Skyline
568



Storm
570

Skyline
Storm

Pole Top

Concord Skyline

- Ideal for plazas, pedestrian areas, precincts, parks etc.
- Select from a wide choice of lamps
- Versatile mounting options for custom lantern arrangements
- Overall design provides good daytime presence



Concord Skyline

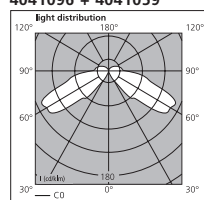
Poletop

- PLAZAS
- MUNICIPAL SPACES
- PEDESTRIAN AREAS
- BEAUTIFICATION PROJECTS, PATHWAYS

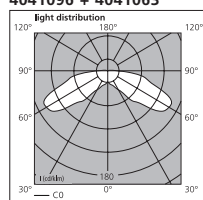
- Contemporary amenity lighting
- Offers visually appealing ambience after dark
- Versatile white light solutions with good colour rendering



4041096 + 4041059



4041096 + 4041063



Lynx-TE

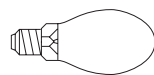
TC-TEL 42W GX24q-4



42W = 3200 lm

CDM-ET

HIE-CE 100W E27



100W = 8600 lm

SHP-T

HST 70W E27
HST 100W E40
HST 150W E40



70W = 6000 lm
100W = 10000 lm
150W = 14500 lm

CDM-TT

HIT-CE 70W E27
HIT-CE 150W E40



70W = 6300 lm
150W = 13500 lm

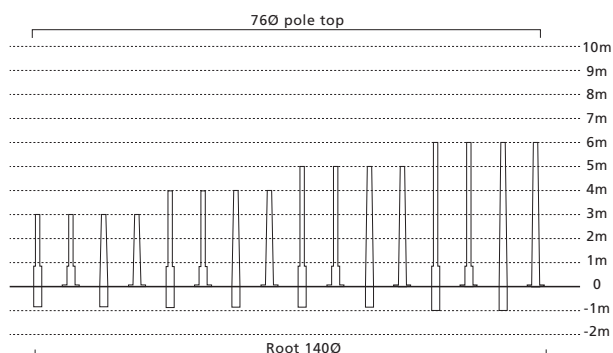
SKYLINE

Light Source		Black	Silver
TC-TEL	42W GX24q-4	4041094	4041095
HIE-CE	100W E27	4041088	4041090
HST/HIT-CE	70W E27	4041096	4041097
HST/HIT-CE	150W E40	4041092	4041093

COLUMN OPTION

Height	Type	Root Mounted	Flange Pl. Mounted
3m	Waisted	4061496	4061495
3m	Tapered	4061476	4061475
4m	Waisted	4061498	4061497
4m	Tapered	4061478	4061477
5m	Waisted	4061500	4061499
5m	Tapered	4061480	4061479
6m	Waisted	4061502	4061501
6m	Tapered	4061482	4061481

NOTE: Columns supplied black primed, final finishing required on site



OPTIONAL CANOPIES

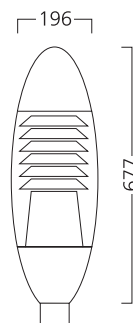
Description	Black	Silver
Canopy 1	4041059	4041060
Canopy 2	4041063	4041064

FUSE CUT OUT BOX

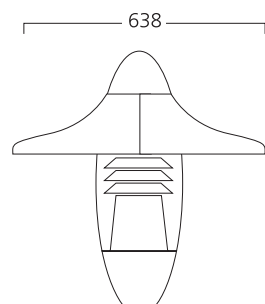
Double pole/single phase, facilitates armoured cable	4040716
--	----------------



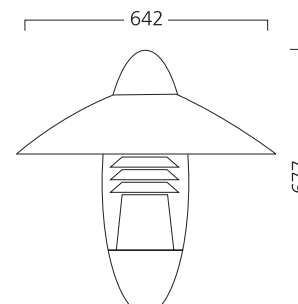
Fuse cut out box



standard version



canopy 1



canopy 2

Concord

Storm

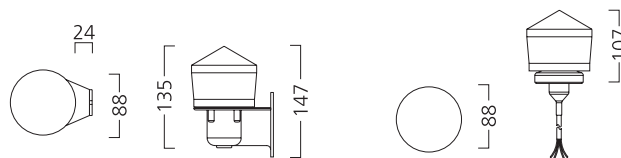
- Ideal for plazas, pedestrian areas, precincts, parks etc.
- Select from a wide choice of lamps
- Versatile mounting options for custom lantern arrangements
- Overall design provides good daytime presence



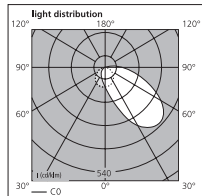
Storm Poletop

- CAR PARKS
- MUNICIPAL SPACES
- PEDESTRIAN AREAS
- PATHWAYS

- Amenity, road and area lighting applications
- Unique ellipse styling
- Versatile mounting options for custom lantern arrangements
- Wall mounted or post top solutions



4050878



SHP-T

HST 70W E27
HST 100W E40
HST 150W E40



70W = 6000 lm
100W = 10000 lm
150W = 14500 lm

CDM-TT

HIT-CE 70W E27
HIT-CE 150W E40



70W = 6300 lm
70W = 13500 lm

Fuse cut out box



Wall mounted photocell



Column mounted
photocell



STORM

Light Source	Black	Silver
HST/HIT-CE 70W E27	4050881	4050882
HST 100W E40	4050875	
HST/HIT-CE 150W E40	4050878	4050879

Supplied with 7 metre mains cable

WALL MOUNTING BRACKET

Description	Black	Silver
Single wall	4050903	4050914
Single wall, with surface cable entry	4050904	4050915

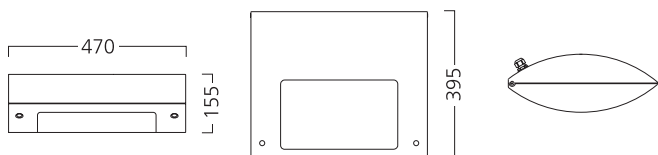
COLUMN MOUNTING BRACKET

Single	4050901	4050912
Twin	4050902	4050913

76MM STEEL COLUMNS

Height	Type	Root Mounted	Flange Pl. Mounted
3m	Waisted	4061496	4061495
3m	Tapered	4061476	4061475
4m	Waisted	4061498	4061497
4m	Tapered	4061478	4061477
5m	Waisted	4061500	4061499
5m	Tapered	4061480	4061479
6m	Waisted	4061502	4061501
6m	Tapered	4061482	4061481

NOTE: Columns supplied black primed, final finishing required on sit



ACCESSORIES (FUSE CUT OUT BOX)

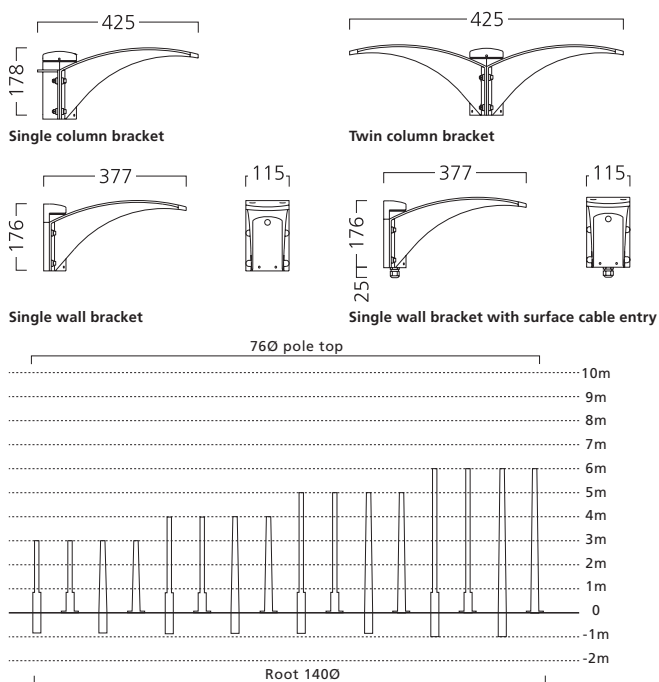
Description	Art. Code
Double Pole – Single Phase	4040716
Double Pole – Single Phase + Photocell connection	4050798

NOTE: 4050798 for use with photocell 4050900 / 4050911 / 4050889 kits

ACCESSORIES (PHOTOCELL)

<i>Description</i>	Black	Silver
Column Mounted*	4050900	4050911
Wall Mounted		4050853

* Supplied with 7 metre mains cable



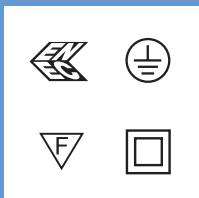




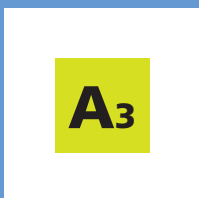
Lamp information
568



**Lighting
Control Systems**
576



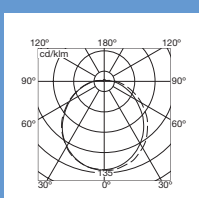
**Luminaire
classifications**
578



**Celma
classifications**
580



IP ratings
581



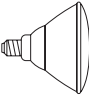
Lighting glossary
582



Guide to symbols
584

Technical information

MAINS VOLTAGE TUNGSTEN LAMPS

Title		Sylvania	ZVEI	ILCOS	Ø (mm)	Length (mm)	Pn (W)	Cap	Initial flux (lm)	Peak Intensity (cd)	Beam angle (°)	Av. Life (h)	Colour temp. (K)	Ra (%)	Ra (Class)
GLS Satin Coiled coil		GLS	A60	IA	60	104	25	E27	225	-	-	1000	2700	100	1A
		GLS	A60	IA	60	104	40	E27	410	-	-	1000	2700	100	1A
		GLS	A60	IA	60	104	60	E27	700	-	-	1000	2700	100	1A
		GLS	A60	IA	60	104	75	E27	915	-	-	1000	2700	100	1A
		GLS	A60	IA	60	104	100	E27	1330	-	-	1000	2700	100	1A
		GLS	-	IA	68	128	150	E27	2150	-	-	1000	2700	100	1A
		GLS	A60	IA	60	103	60	B22d	700	-	-	1000	2700	100	1A
		GLS	A60	IA	60	103	75	B22d	915	-	-	1000	2700	100	1A
		GLS	A60	IA	60	103	100	B22d	1330	-	-	1000	2700	100	1A
Round Satin Single coil		Round	D45	IBP	45	72.5	40	E14	415	-	-	1000	2700	100	1A
		Round	D45	IBP	45	71	60	E27	700	-	-	1000	2700	100	1A
Pygmy Clear Single coil		Pygmy	CO26	IBS	28	58	15	B22d	100	-	-	1000	2700	100	1A
Crown Silvered Clear Coiled coil		CS	A60-CS	IRA	60	104	40	E27	360	-	-	1000	2700	100	1A
		CS	A60-CS	IRA	60	104	60	E27	620	-	-	1000	2700	100	1A
		CS	A60-CS	IRA	68	128	100	E27	1170	-	-	1000	2700	100	1A
Reflector Pearl Coiled coil		R80	R80	IRR	80	110	40	E27	410	120	80	1000	2700	100	1A
		R80	R80	IRR	80	110	60	E27	700	200	80	1000	2700	100	1A
		R80	R80	IRR	80	110	75	E27	915	280	80	1000	2700	100	1A
		R80	R80	IRR	80	110	100	E27	1330	410	80	1000	2700	100	1A
PAR 38 Clear Coiled coil		PAR 38	PAR 38	IPAR	124	136	60	E27	700	3400	12	2000	2700	100	1A
		PAR 38	PAR 38	IPAR	124	136	60	E27	700	1200	30	2000	2700	100	1A
		PAR 38	PAR 38	IPAR	124	136	80	E27	915	5400	12	2000	2700	100	1A
		PAR 38	PAR 38	IPAR	124	136	80	E27	915	1800	30	2000	2700	100	1A
		PAR 38	PAR 38	IPAR	124	136	120	E27	1330	9300	12	2000	2700	100	1A
		PAR 38	PAR 38	IPAR	124	136	120	E27	1330	3100	30	2000	2700	100	1A

Note - Throughout the catalogue, lamp boxes provide guidance on lighting performance. Note that beam angles quoted are at 50% of the peak intensity.

Lamp information

MAINS VOLTAGE TUNGSTEN HALOGEN LAMPS

Title		Sylvania	ZVEI	ILCOS	Ø (mm)	Length (mm)	Pn (W)	Cap	Initial flux (lm)	Peak Intensity (cd)	Beam angle (°)	Av. Life (h)	Colour temp. (K)	Ra (%)	Ra (Class)
Quartz halogen		Hi-Pin	QT14	HSGST/F	14	51	40	G9	460	-	-	2000	2800	100	1A
Matt frosted		Hi-Pin	QT14	HSGST/F	14	51	60	G9	790	-	-	2000	2800	100	1A
Low pressure															
															
Quartz halogen		-	QT18	HEG BT/C	18	86	75	B15d	1100	-	-	2000	2900	100	1A
Clear		-	QT18	HEG BT/C	18	86	100	B15d	1500	-	-	2000	2900	100	1A
Low Pressure			QT18	HEG BT/C	18	86	150	B15d	2500	-	-	2000	2900	100	1A
			QT18	HEG BT/C	18	86	250	B15d	4350	-	-	2000	2900	100	1A
Quartz halogen		-	QT32	HEGT/C	32	105	75	E27	1100	-	-	1500	2900	100	1A
Clear		-	QT32	HEGT/C	32	105	100	E27	1500	-	-	2000	2900	100	1A
Low Pressure			QT32	HEGT/C	32	105	150	E27	2500	-	-	2000	2900	100	1A
			QT32	HEGT/C	32	105	250	E27	4350	-	-	2000	2900	100	1A
Quartz halogen		-	QT32	HEGT/W	32	105	75	E27	1050	-	-	1500	2900	100	1A
Satin		-	QT32	HEGT/W	32	105	100	E27	1470	-	-	2000	2900	100	1A
Low Pressure			QT32	HEGT/W	32	105	150	E27	2400	-	-	2000	2900	100	1A
			QT32	HEGT/W	32	105	250	E27	4210	-	-	2000	2900	100	1A
Quartz halogen		DLX-T	QT32	HEGT/C	33	103	60	E27	840	-	-	2000	2800	100	1A
Clear 230V only		DLX-T	QT32	HEGT/C	33	103	100	E27	1600	-	-	2000	2900	100	1A
Low Pressure		DLX-T	QT32	HEGT/C	33	103	150	E27	2550	-	-	2000	2900	100	1A
															
Quartz halogen		DLX-T	QT32	HEGT/W	33	103	60	E27	780	-	-	2000	2800	100	1A
Satin 230V only		DLX-T	QT32	HEGT/W	33	103	100	E27	1525	-	-	2000	2900	100	1A
Low Pressure		DLX-T	QT32	HEGT/W	33	103	150	E27	2450	-	-	2000	2900	100	1A
															
Quartz halogen		-	QT-DE12	HDF	10	78.3	60	R7s	840	-	-	2000	2900	100	1A
Double ended tube		K14	QT-DE12	HDF	10	78.3	100	R7s	1600	-	-	2000	2900	100	1A
		K12	QT-DE12	HDF	10	78.3	150	R7s	2600	-	-	2000	2900	100	1A
		K11	QT-DE12	HDF	8	118.6	200	R7s	3000	-	-	2000	2880	100	1A
		K9	QT-DE12	HDF	8	118.6	300	R7s	4800	-	-	2000	2900	100	1A
		K11 QT-DE12	HDF	8	118.6	500	R7s	9250	-	-	2000	2900	100	1A	
		K3 QT-DE12	HDF	12	189.1	750	R7s	15000	-	-	2000	2900	100	1A	
		K4	QT-DE12	HDF	12	189.1	1000	R7s	22000	-	-	2000	2900	100	1A
		K5	QT-DE12	HDF	12	254.1	1500	R7s	33000	-	-	2000	2900	100	1A
		K6	QT-DE12	HDF	12	331	2000	Fa4	44000	-	-	2000	2900	100	1A
Halogen PAR16		Hi-Spot ES50	QPAR16	HAGSPAR	50	55	35	GU10	315	800	25	2500	2700	100	1A
Clear		Hi-Spot ES50	QPAR16	HAGSPAR	50	55	50	GU10	525	1300	25	2500	2700	100	1A
Low Pressure		Hi-Spot ES50	QPAR16	HAGSPAR	50	55	50	GU10	525	500	50	2500	2700	100	1A
															
Halogen PAR16		Hi-Spot 50	QPAR16	HAPAR	50	77	40	E14	400	950	25	2000	2700	100	1A
Clear															
Low Pressure															
															
Halogen PAR20		Hi-Spot ES63	QPAR63	HAGSPAR	62	64	50	GU10	525	1500	25	2500	2750	100	1A
Clear		Hi-Spot ES63	QPAR63	HAGSPAR	62	64	75	GU10	980	2500	25	2500	2750	100	1A
Low Pressure		Hi-Spot ES63	QPAR63	HAGSPAR	62	64	75	GU10	980	1000	25	2500	2750	100	1A
															
Halogen PAR20		Hi-Spot 63	QPAR20	HAPAR	65	88	50	E27	630	3000	10	2500	2900	100	1A
Clear		Hi-Spot 63	QPAR20	HAPAR	65	88	50	E27	630	1000	25	2500	2900	100	1A
Low Pressure															
															
Halogen PAR25		Hi-Spot 80	QPAR80	HAPAR	81	108	50	E27	630	4000	10	2500	2900	100	1A
Clear		Hi-Spot 80	QPAR80	HAPAR	81	108	50	E27	630	1100	25	2500	2900	100	1A
Low Pressure		Hi-Spot 80	QPAR80	HAPAR	81	108	75	E27	1050	5500	10	3000	2900	100	1A
		Hi-Spot 80	QPAR80	HAPAR	81	108	75	E27	1050	1300	25	3000	2900	100	1A
Halogen PAR30		Hi-Spot 95	QPAR30	HAPAR	97	88	75	E27	1050	6900	10	2500	2900	100	1A
Clear		Hi-Spot 95	QPAR30	HAPAR	97	88	75	E27	1050	2200	30	2500	2900	100	1A
Low Pressure		Hi-Spot 95	QPAR30	HAPAR	97	88	100	E27	1550	10000	10	3000	2900	100	1A
		Hi-Spot 95	QPAR30	HAPAR	97	88	100	E27	1550	3500	30	3000	2900	100	1A
Halogen QPAR111		Hi-Spot ES111	QPAR111	HAPAR	111	72	75	GU10	1090	3000	24	2000	2900	100	1A
Clear															
Low Pressure															
															
Halogen PAR38		Hi-Spot 120	QPAR38	HAPAR	124	136	75	E27	1050	6900	10	3000	2900	100	1A
Clear		Hi-Spot 120	QPAR38	HAPAR	124	136	75	E27	1050	2200	30	3000	2900	100	1A
Low Pressure		Hi-Spot 120	QPAR38	HAPAR	124	136	100	E27	1550	10000	10	3000	2900	100	1A
		Hi-Spot 120	QPAR38	HAPAR	124	136	100	E27	1550	3500	30	3000	2900	100	1A

Note - Permanently dimming halogen lamps shortens lamp life. Dimmed halogen lamps should be run-up to full power at regular intervals to maintain optimum life

Lamp information

LOW VOLTAGE TUNGSTEN LAMPS - 12V

Title	Sylvania	ZVEI	ILCOS	Ø (mm)	Length (mm)	Pn (W)	Cap	Initial flux (lm)	Peak Intensity (cd)	Beam angle (°)	Av. Life (h)	Colour temp. (K)	Ra (%)	Ra (Class)
Tungsten halogen	Capsule LP	QT9-LPax	HSG/LP	9	33	5	G4	45	-	-	1500	2900	100	1A
Capsule - axial filament	Capsule LP	QT9-LPax	HSG/LP	9	33	10	G4	100	-	-	1500	2900	100	1A
Clear	Capsule LP	QT9-LPax	HSG/LP	9	33	20	G4	260	-	-	1500	2900	100	1A
Low Pressure 	-	QT12-LPax	HSG/LP	12	44	20	GY6.35	300	-	-	3000	3000	100	1A
UV Stop 	Capsule LP	QT12-LPax	HSG/LP	12	44	35	GY6.35	560	-	-	1500	2900	100	1A
	Capsule LP	QT12-LPax	HSG/LP	12	44	50	GY6.35	950	-	-	1500	2900	100	1A
	-	QT12-LPax	HSG/LP	12	44	75	GY6.35	1575	-	-	3000	3000	100	1A
	-	QT12-LPax	HSG/LP	12	44	100	GY6.35	2200	-	-	3000	3000	100	1A
Tungsten halogen	Capsule	QT9-Uvrax	HSG	9	33	35	G4	650	-	-	3000	3000	100	1A
Capsule - axial filament	Capsule	QT12-Uvrax	HSG	12	44	35	GY6.35	650	-	-	3000	3000	100	1A
Clear	Capsule	QT12-Uvrax	HSG	12	44	50	GY6.35	1000	-	-	3000	3000	100	1A
UV Stop 	Capsule	QT12-Uvrax	HSG	12	44	75	GY6.35	1600	-	-	3000	3000	100	1A
Only use in fixtures with toughened front safety glass	Capsule	QT12-Uvrax	HSG	12	44	100	GY6.35	2300	-	-	3000	2900	100	1A
Dichroic reflector [MR8]		QR-CBC25	HRGI	25	26	35	GZ4	-	1400	26	2000	3050	100	1A
Clear front														
MR16 Dichroic reflector	(Superia 35)													
Axial filament	-	QR-CBC35	HRGI	35.3	37	10	GU4	140	300	38	2000	3000	100	1A
Clear front	M252S	QR-CBC35	HRGI	35.3	42	20	GZ4/GU4	320	4500	10	4000	3100	100	1A
Low pressure 	M262S	QR-CBC35	HRGI	35.3	42	20	GZ4/GU4	320	700	38	4000	3100	100	1A
UV Stop 	M265S	QR-CBC35	HRGI	35.3	42	35	GZ4/GU4	630	7200	10	4000	3100	100	1A
	M170S	QR-CBC35	HRGI	35.3	42	35	GZ4/GU4	630	1350	38	4000	3100	100	1A
	(Superia 50)													
	M268S	QR-CBC51	HRGI	51	45	20	GX/GU5.3	320	4000	10	5000	2925	100	1A
	M269S	QR-CBC51	HRGI	51	45	20	GX/GU5.3	320	790	38	5000	2925	100	1A
	M271S	QR-CBC51	HRGI	51	45	35	GX/GU5.3	630	7700	10	5000	3000	100	1A
	M281S	QR-CBC51	HRGI	51	45	35	GX/GU5.3	630	1450	38	5000	3000	100	1A
	M246S	QR-CBC51	HRGI	51	45	50	GX/GU5.3	1000	11500	10	5000	3050	100	1A
	M250S	QR-CBC51	HRGI	51	45	50	GX/GU5.3	1000	3600	24	5000	3050	100	1A
	M258S	QR-CBC51	HRGI	51	45	50	GX/GU5.3	1000	2250	38	5000	3050	100	1A
	M280S	QR-CBC51	HRGI	51	45	50	GX/GU5.3	1000	1000	60	5000	3050	100	1A
	-	QR-CBC51	HRGI	51	49	75	GX/GU5.3	-	13000	12	3500	3000	100	1A
	-	QR-CBC51	HRGI	51	49	75	GX/GU5.3	-	4800	24	3500	3000	100	1A
	-	QR-CBC51	HRGI	51	49	75	GX/GU5.3	-	2700	38	3500	3000	100	1A
	-	QR-CBC51	HRGI	51	49	75	GX/GU5.3	-	1220	60	3500	3000	100	1A
MR16 Quartz capsule & aluminium reflector(Coolfit 50)														
Axial filament	M69CF	QR-C51	HAGI	51	49	20	GX/GU5.3	320	660	38	5000	3000	100	1A
Clear front	M81CF	QR-C51	HAGI	51	49	35	GX/GU5.3	630	1200	38	5000	3000	100	1A
Low pressure 	M58CF	QR-C51	HAGI	51	49	50	GX/GU5.3	1000	1950	38	5000	3000	100	1A
UV Stop 	M80CF	QR-C51	HAGI	51	49	50	GX/GU5.3	1000	900	60	5000	3000	100	1A
AR70 Quartz capsule & aluminium reflector														
	-	QR-LP70	HMG	70	50	50	BA15d	930	12500	8	3000	3000	100	1A
Axial filament	-	QR-LP70	HMG	70	50	50	BA15d	930	2600	24	3000	3000	100	1A
Clear front														
Low pressure 														
UV Stop 														
AR111 Quartz capsule & aluminium reflector														
	SA111	QR-LP111	HMG	111	50	50	G53	930	45000	4	3000	3000	100	1A
Axial filament	SA111	QR-LP111	HMG	111	50	50	G53	930	20000	8	3000	3000	100	1A
Clear front	SA111	QR-LP111	HMG	111	50	50	G53	930	4000	24	3000	3000	100	1A
Low pressure 	SA111	QR-LP111	HMG	111	50	100	G53	2200	48000	8	3000	3000	100	1A
UV Stop 	SA111	QR-LP111	HMG	111	50	100	G53	2200	8500	24	3000	3000	100	1A
	SA111	QR-LP111	HMG	111	50	100	G53	2200	2800	45	3000	3000	100	1A
PAR36 Quartz capsule & aluminiumised reflector														
Clear front	-	PAR 36	IPAR	115	70	50	screw connection	-	1300	30	4000	2900	100	1A
PAR56 Quartz capsule & aluminiumised reflector														
Clear front	-	PAR 56	IPAR	180	127	300	GX16d	-	16000	40	1500	2900	100	1A

Note - Permanently dimming tungsten halogen lamps shortens lamp life. Dimmed halogen lamps should be run-up to full power at regular intervals to maintain optimum life

COMPACT FLUORESCENT LAMPS [CFL]

Title		Sylvania	ZVEI	ILCOS	Length (mm)	Pn (W)	Cap	Initial flux (lm)	Av. Life (h)	Colour temp. (K)	Ra (%)	Ra (Class)
TC-S 2 limb, 2 pin [SS]		Lynx-S	TC-S	FSD	88	5	G53	250	10000	2700/3000/3500/4000/6500	85	1B
		Lynx-S	TC-S	FSD	115	7	G53	400	10000	2700/3000/3500/4000/6500	85	1B
		Lynx-S	TC-S	FSD	145	9	G53	600	10000	2700/3000/3500/4000/6500	85	1B
		Lynx-S	TC-S	FSD	213	11	G53	900	10000	2700/3000/3500/4000/6500	85	1B
TC-SEL 2 limb, 4 pin [electr.]		Lynx-SE	TC-SEL	FSD	89	5	2G7	250	12000	2700/4000	85	1B
		Lynx-SE	TC-SEL	FSD	115	7	2G7	400	12000	2700/4000	85	1B
		Lynx-SE	TC-SEL	FSD	148	9	2G7	600	12000	2700/4000	85	1B
		Lynx-SE	TC-SEL	FSD	216	11	2G7	900	12000	2700/4000	85	1B
TC-D 4 limb, 2 pin [SS]		Lynx-D	TC-D	FSQ	90	10	G24d-1	600	10000	2700/3000/3500/4000/6000/6500	85	1B
		Lynx-D	TC-D	FSQ	118	13	G24d-1	900	10000	2700/3000/3500/4000/6000/6500	85	1B
		Lynx-D	TC-D	FSQ	132	18	G24d-2	1200	10000	2700/3000/3500/4000/6000/6500	85	1B
		Lynx-D	TC-D	FSQ	150	26	G24d-3	1800	10000	2700/3000/3500/4000/6000/6500	85	1B
TC-DEL 4 limb, 4 pin [electr.]		Lynx-DE	TC-DEL	FSQ	90	10	G24q-1	600	12000	2700/3000/3500/4000	85	1B
		Lynx-DE	TC-DEL	FSQ	118	13	G24q-1	900	12000	2700/3000/3500/4000	85	1B
		Lynx-DE	TC-DEL	FSQ	132	18	G24q-2	1200	12000	2700/3000/3500/4000	85	1B
		Lynx-DE	TC-DEL	FSQ	150	26	G24q-3	1800	12000	2700/3000/3500/4000	85	1B
TC-T 6 limb, 2 pin [SS]		-	TC-T	FSM	113	13	GX24d-1	900	10000	2700/3000/3500/4000/6500	85	1B
		Lynx-T	TC-T	FSM	100	18	GX24d-2	1200	10000	2700/3000/3500/4000/6500	85	1B
		Lynx-T	TC-T	FSM	115	26	GX24d-3	1800	10000	2700/3000/3500/4000/6500	85	1B
TC-TEL 6 limb, 4 pin [electr.]		-	TC-TEL	FSM	113	13	GX24q-1	900	12000	2700/3000/3500/4000	85	1B
		Lynx-TE	TC-TEL	FSM	100	18	GX24q-2	1200	12000	2700/3000/3500/4000	85	1B
		Lynx-TE	TC-TEL	FSM	115	26	GX24q-3	1800	12000	2700/3000/3500/4000	85	1B
		Lynx-TE	TC-TEL	FSM	131	32	GX24q-3	2400	12000	2700/3000/3500/4000	85	1B
		Lynx-TE	TC-TEL	FSM	152	42	GX24q-4	3200	12000	2700/3000/3500/4000	85	1B
TC-TELI 6 limb, 4 pin [electr.]		-	TC-TELI	FSM	178	57	GX24q-5	4300	12000	2700/3000/3500/4000/5000	82	1B
TC-L(E) 2 limb, 4 pin [electr.]		Lynx-L	TC-L	FSL	225	18	2G11	1200	15000	2700/3000/3500/4000/6500	85	1B
		Lynx-L	TC-L	FSL	320	24	2G11	1800	15000	2700/3000/3500/4000/6500	85	1B
		Lynx-L	TC-L	FSL	415	36	2G11	2900	15000	2700/3000/3500/4000/6500	85	1B
		Lynx-LE	TC-L	FSL	535	40	2G11	3500	15000	2700/3000/3500/4000/6500	85	1B
		Lynx-LE	TC-L	FSL	535	55	2G11	4800	15000	2700/3000/3500/4000/6500	85	1B
TC-F 4 limb, 4 pin [electr.]		Lynx-F	TC-F	FSM	122	18	2G10	1100	15000	2700/3000/4000	85	1B
		Lynx-F	TC-F	FSM	165	24	2G10	1700	15000	2700/3000/4000	85	1B
		Lynx-F	TC-F	FSM	217	36	2G10	2800	15000	2700/3000/4000	85	1B
2D 8 limb, 2 pin [SS]		Lynx-Q	TC-DD	FSF	-	16	GR8	1050	10000	2700/3000/3500/4000	82	1B
		Lynx-Q	TC-DD	FSF	-	28	GR8	1050	10000	2700/3000/3500/4000	82	1B
2D 8 limb, 4 pin [electr.]		Lynx-Q	TC-DD	FSF	-	16	GR10q	1050	10000	2700/3000/3500/4000	82	1B
		Lynx-Q	TC-DD	FSF	-	28	GR10q	2250	10000	2700/3000/3500/4000	82	1B
		Lynx-Q	TC-DD	FSF	-	38	GR10q	3000	10000	2700/3000/3500/4000	82	1B
		-	TC-DD	FSF	-	55	GRY10q-3	3900	15000	2700/3000/4000	82	1B
Data for Lynx-Q is provisional												
Micro-Lynx Luna With integral electr. gear		Micro-Lynx Luna	TC-FSE	FBC	750	6	GX53	235	10000	2700/3000/4000/6000	85	1B
TC-DSE With integral electr. gear 4 limb		Mini-Lynx	TC-DSE	FSD	140	7	E27	400	15000	2700/6000	85	1B
		Mini-Lynx	TC-DSE	FSD	140	11	E27	600	15000	2700/6000	85	1B
		Mini-Lynx	TC-DSE	FSD	169	15	E27	900	15000	2700/6000	85	1B
		Mini-Lynx	TC-DSE	FSD	180	20	E27	1250	15000	2700/6000	85	1B
TC-TSE With integral electr. gear 6 limb		Mini-Lynx	TC-TSE	FSQ	140	15	E27	900	15000	2700/6000	85	1B
		Mini-Lynx	TC-TSE	FSQ	158	20	E27	1250	15000	2700/6000	85	1B
		Mini-Lynx	TC-TSE	FSQ	169	23	E27	1500	15000	2700/6000	85	1B

Lamp information

T5 FLUORESCENT LAMPS

Title	Sylvania	ZVEI	ILCOS (mm)	Length (W)	Pn	Cap	Initial flux (lm)	Max flux at 33-37°C (lm)	Av. Life (h)	Colour Temp. (K)	Ra (%)	Ra (Class)
T5 HE (16mm Ø) High Efficiency Triphosphor	Luxline FHE	T16	FDH	549	14	G5	1230	1350	24000	2700/3000/4000	85	1B
	Luxline FHE	T16	FDH	549	14	G5	1140	1250	24000	6000	85	1B
	Luxline FHE	T16	FDH	849	21	G5	1910	2100	24000	2700/3000/4000	85	1B
	Luxline FHE	T16	FDH	849	21	G5	1775	1950	24000	6000	85	1B
	Luxline FHE	T16	FDH	1149	28	G5	2640	2900	24000	2700/3000/4000	85	1B
	Luxline FHE	T16	FDH	1149	28	G5	2460	1950	24000	6000	85	1B
	Luxline FHE	T16	FDH	1449	35	G5	3300	3650	24000	2700/3000/4000	85	1B
	Luxline FHE	T16	FDH	1449	35	G5	3095	3400	24000	6000	85	1B
T5 HO (16mm Ø) High Output Triphosphor	Luxline FHO	T16	FDH	549	24	G5	1700	2000	24000	2700/3000/4000	85	1B
	Luxline FHO	T16	FDH	549	24	G5	1570	1850	24000	6000	85	1B
	Luxline FHO	T16	FDH	849	39	G5	3220	3500	24000	2700/3000/4000	85	1B
	Luxline FHO	T16	FDH	849	39	G5	2990	3250	24000	6000	85	1B
	Luxline FHO	T16	FDH	1449	49	G5	4165	4900	24000	2700/3000/4000	85	1B
	Luxline FHO	T16	FDH	1449	49	G5	3950	4650	24000	6000	85	1B
	Luxline FHO	T16	FDH	1149	54	G5	4450	5000	24000	2700/3000/4000	85	1B
	Luxline FHO	T16	FDH	1149	54	G5	4050	4550	24000	6000	85	1B
T5 (16mm Ø) Standard Halophosphor	Standard	T16	FD	136	4	G5	140	-	10000	3000/3500	53	3
	Standard	T16	FD	136	4	G5	140	-	10000	4300	64	2B
	Standard	T16	FD	136	4	G5	115	-	10000	6500	76	2A
	Standard	T16	FD	212	6	G5	280	-	10000	3000/3500	53	3
	Standard	T16	FD	212	6	G5	280	-	10000	4300	64	2B
	Standard	T16	FD	212	6	G5	240	-	10000	6500	76	2A
	Standard	T16	FD	288	8	G5	400	-	10000	3000/3500	53	3
	Standard	T16	FD	288	8	G5	400	-	10000	4300	64	2B
	Standard	T16	FD	288	8	G5	340	-	10000	6500	76	2A
	Standard	T16	FD	517	13	G5	880	-	10000	3000/3500	53	3
	Standard	T16	FD	517	13	G5	880	-	10000	4300	64	2B
	Standard	T16	FD	517	13	G5	750	-	10000	6500	75	2A
T5 Circular (16mm Ø) High output Triphosphor		T16-R	FSC	230Ø	22	2GX13	1800	-	16000	2700/3000/4000/6000	85	1B
		T16-R	FSC	305Ø	40	2GX13	3200	-	16000	2700/3000/4000/6000	85	1B
		T16-R	FSC	305Ø	55	2GX13	4200	-	16000	2700/3000/4000/6000	85	1B

T8 FLUORESCENT LAMPS

Title	Sylvania	ZVEI	ILCOS (mm)	Length (W)	Pn	Cap	Initial flux (lm)	Av. Life (h)	Colour Temp. (K)	Ra (%)	Ra (Class)
T8 (26mm Ø) Triphosphor	Luxline Plus	T26	FD	590	18	G13	1350	20000	2700/3000/3500/4000	85	1B
	Luxline Plus	T26	FD	590	18	G13	1300	20000	5000/6000	85	1B
	Luxline Plus	T26	FD	1200	36	G13	3350	20000	2700/3000/3500/4000	85	1B
	Luxline Plus	T26	FD	1200	36	G13	3250	20000	5000/6000	85	1B
	Luxline Plus	T26	FD	1500	58	G13	5200	20000	2700/3000/3500/4000	85	1B
	Luxline Plus	T26	FD	1500	58	G13	5000	20000	5000/6000	85	1B
	Luxline Plus	T26	FD	1764	70	G13	6050	20000	2700/3000/3500/4000	85	1B
	Luxline Plus	T26	FD	1764	70	G13	5700	20000	5000/6000	85	1B
T8 (26mm Ø) Halophosphor	Standard	T26	FD	590	18	G13	1150	14000	3000/3500	53	3
	Standard	T26	FD	590	18	G13	1100	14000	4000	76	2A
	Standard	T26	FD	590	18	G13	1150	14000	4300	64	2B
	Standard	T26	FD	590	18	G13	1050	14000	6500	75	2A
	Standard	T26	FD	1200	36	G13	2850	14000	3000/3500	53	3
	Standard	T26	FD	1200	36	G13	2600	14000	4000	76	2A
	Standard	T26	FD	1200	36	G13	2850	14000	4300	64	2B
	Standard	T26	FD	1200	36	G13	2500	14000	6500	75	2A
	Standard	T26	FD	1500	58	G13	4600	14000	3000/3500	53	3
	Standard	T26	FD	1500	58	G13	4100	14000	4000	76	2A
	Standard	T26	FD	1500	58	G13	4600	14000	4300	64	2B
	Standard	T26	FD	1500	58	G13	4000	14000	6500	75	2A

HID METAL HALIDE - CERAMIC ARC TUBE

Title	Sylvania	ZVEI	ILCOS	Ø (mm)	Length (mm)	Pn (W)	Cap	Initial flux (lm)	Peak Intensity (cd)	Beam angle (°)	Av. Life (h)	Colour temp. (K)	Ra (%)	Ra (Class)	
Metal halide ceramic capsule	-	HIT-TC-CE	MT	14	85	20	G8.5	1700	-	-	6000	3000	81	1B	
CDM-TC		CMI-TC	HIT-TC-CE	MT	17	85	35	G8.5	3400	-	-	9000	3000	84	1B
UV Stop		CMI-TC	HIT-TC-CE	MT	17	85	70	G8.5	6200	-	-	9000	3000	84	1B
Metal halide ceramic capsule	-	CMI-T	HIT-CE	MT	20	90	35	G12	3400	-	-	9000	3000	83	1B
CDM-T		CMI-T	HIT-CE	MT	20	90	70	G12	6200	-	-	9000	3000	83	1B
UV Stop		CMI-T	HIT-CE	MT	20	90	70	G12	6000	-	-	9000	4200	88	1A
		CMI-T	HIT-CE	MT	20	100	150	G12	13500	-	-	9000	3000	83	1B
		CMI-T	HIT-CE	MT	20	100	150	G12	13000	-	-	9000	4200	88	1A
Metal halide ceramic tubular double ended	-	CMI-TD	HIT-DE-CE	MD	22	117.6	70	Rx7s	6200	-	-	9000	3000	85	1B
CDM-TD		CMI-TD	HIT-DE-CE	MD	22	117.6	70	Rx7s	6200	-	-	9000	4200	90	1A
UV Stop		CMI-TD	HIT-DE-CE	MD	25	135.4	150	Rx7s-24	13500	-	-	9000	3000	85	1B
		CMI-TD	HIT-DE-CE	MD	25	135.4	150	Rx7s-24	12500	-	-	9000	4200	90	1A
Metal halide ceramic tubular	-	-	HIT-CE	MT	32	156	70	E27	6300	-	-	12000	3000	83	1B
CDM-TT		-	HIT-CE	MT	47	211	150	E40	13500	-	-	7000	3000	85	1B
UV Stop															
Metal halide ceramic elliptical	-	-	HIE-CE	ME	71	156	70	E27	5900	-	-	12000	3000	83	1B
CDM-ET		-	HIE-CE	ME	91	226	150	E40	13000	-	-	7000	3000	85	1B
UV Stop															
Metal halide ceramic elliptical	-	-	HIT-CE	ME	54	138	70	E27	5700	-	-	9000	3000	87	1B
HCI-E/P		-	HIT-CE	ME	54	138	70	E27	5600	-	-	9000	4200	90	1A
UV Stop		-	HIT-CE	ME	54	141	100	E27	8600	-	-	9000	3000	87	1B
		-	HIT-CE	ME	54	138	150	E27	12500	-	-	9000	3000	87	1B
		-	HIT-CE	ME	54	138	150	E27	12500	-	-	9000	4200	90	1A
Metal halide ceramic reflector	-	-	HIPAR20	MR	65	95	35	E27	-	26000	10	9000	3000	81	1B
CDM-R		-	HIPAR20	MR	65	95	35	E27	-	5000	30	9000	3000	81	1B
UV Stop		-	HIPAR-L30	MR	97	125	35	E27	-	44000	10	9000	4200	81	1B
		-	HIPAR-L30	MR	97	125	35	E27	-	7400	30	9000	3000	81	1B
		-	HIPAR-L30	MR	97	125	70	E27	-	68000	10	9000	4200	83	1B
		-	HIPAR-L30	MR	97	125	70	E27	-	10000	40	9000	4200	83	1B

Note: Ceramic Metal halide lamps and Electronic Gear

Lamp warm-up

Ceramic metal halide lamps require approximately 5-12 minutes warm up time to reach full output. Several colour changes are often experienced as part of the warm up process.

Hot Re-strike

Hot lamps must cool down sufficiently until the gear can re-ignite them. Length of time this takes will depend upon the ambient and lamp temperature.

Timed ignition

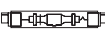
Gear will shut down to protect itself when lamps are damaged and at end of lamp life. Constant attempts to strike such lamps would result in a reduction in gear life. Once the lamp has been replaced and the gear reset (by switching the unit off at the mains) the gear will operate as normal.

Thermal protection

Gear will shut down to protect itself when high ambient and internal temperatures are reached that would substantially decrease gear life. Such occurrences may occur in areas with poor ventilation or sometimes at the end of lamp life. Once the temperature has reduced to a safe level the gear will automatically re-set itself and operate normally.

Lamp information

HID METAL HALIDE - QUARTZ ARC TUBE

Title		Sylvania	ZVEI	ILCOS	Ø (mm)	Length (mm)	Pn (W)	Cap	Initial flux (lm)	Peak Intensity (cd)	Beam angle (°)	Av. Life (h)	Colour temp. (K)	Ra (%)	Ra (Class)
Metal halide quartz capsule HQI-T UV Stop		HSI-T HSI-T HSI-T HSI-T	HIT-UVr HIT-UVr HIT-UVr HIT-UVr	MT MT MT MT	26 26 26 26	76 76 76 76	70 70 150 150	G12 G12 G12 G12	5200 5200 12000 12500	- - - -	- - - -	6000 6000 6000 6000	3000 4200 3000 4200	80 80 80 80	1B 1B 1B 1B
Metal halide quartz tubular double ended HQI-TS UV Stop		HSI-TD HSI-TD HSI-TD HSI-TD HSI-TD HSI-TD HSI-TD	HIT-DE HIT-DE HIT-DE HIT-DE HIT-DE HIT-DE HIT-DE	MD MD MD MD MD MD MD	22 22 22 25 25 25 25	117.6 117.6 117.6 135.4 135.4 135.4 135.4	70 70 70 150 150 150 150	Rx7s Rx7s Rx7s Rx7s-24 Rx7s-24 Rx7s-24 Rx7s-24	5500 5800 5400 13000 13000 13000 11000	- - - - - - -	- - - - - - -	9000 9000 9000 9000 9000 9000 9000	3000 4200 5600 3000 4200 4200 5200	80 80 80 80 80 80 80	1B 1B 1B 1B 1B 1B 1B
		HSI-TD HSI-TD HSI-TD	HIT-DE-UVr HIT-DE-UVr HIT-DE-UVr	MD MD MD	27.5 27.5 27.5	161.6 161.6 161.6	250 250 250	Fc2 Fc2 Fc2	20000 20000 18000	- - -	- - -	9000 9000 9000	3200 4200 5200	80 80 80	1B 1B 1B
Metal halide quartz tubular HQI-T UV Stop		HSI-TSX HSI-TSX	HIT HIT	MT MT	48 63	260 270	250 400	E40 E40	21000 40000	- -	- -	14500 14500	4200 4200	80 80	1B 1B
compatible with HP sodium control gear															
Metal halide quartz elliptical HQI-E UV Stop		HSI-SX	HIE	MT	90	227	250	E40	23500	-	-	14500	4100	80	1B
clear compatible with HP sodium control gear															
Metal halide quartz elliptical HQI-E clear/protected UV Stop		HSI-SX HSI-SX	HIE-P HIE-P	MT MT	90 120	227 290	250 400	E40 E40	21000 42000	- -	- -	14500 14500	4500 4300	80 80	1B 1B
compatible with HP sodium control gear															
Metal halide quartz elliptical HQI-E Coated UV Stop		HSI-SX	HIE	MT	90	227	250	E40	23500	-	-	14500	3800	80	1B
compatible with HP sodium control gear															
Metal halide quartz elliptical HQI-E Coated/protected UV Stop		HSI-SX HSI-SX	HIE-P/c HIE-P/c	MT MT	90 120	227 290	250 400	E40 E40	20000 40000	- -	- -	14500 14500	4200 4200	80 80	1B 1B
compatible with HP sodium control gear															
Metal halide quartz tubular HQI-T Clear UV Stop		HSI-THX HSI-THX	HIT HIT	MT MT	48 63	257 270	250 400	E40 E40	20000 36000	- -	- -	14500 14500	4500 4200	80 80	1B 1B
compatible with HP mercury control gear															
Metal halide quartz elliptical HQI-E Clear UV Stop		HSI-HX HSI-HX	HIE HIE	MT MT	90 120	227 290	250 400	E40 E40	23000 37000	- -	- -	14500 14500	4500 4500	80 80	1B 1B
compatible with HP mercury control gear															
Metal halide quartz elliptical Britelux HSI-HX Coated UV Stop		HSI-HX HSI-HX	HIE HIE	MT MT	90 120	227 290	265 425	E40 E40	22300 40000	- -	- -	14500 14500	3800 4200	80 80	1B 1B
compatible with HP sodium control gear, external ignitor required															
Metal halide quartz elliptical HSI-HX Coated UV Stop		HSI-HX HSI-HX	HIE HIE	MT MT	90 120	227 290	245 400	E40 E40	21000 35200	- -	- -	14500 14500	3800 3800	80 80	1B 1B
compatible with mercury control gear, with internal ignitor															
Metal halide quartz elliptical HSI-MP UV Stop		HSI-MP HSI-MP HSI-MP HSI-MP HSI-MP HSI-MP	HIE-P HIE-P HIE-P HIE-P HIE-P HIE-P	ME ME ME ME ME ME	54 54 54 54 54 54	138 138 138 138 138 138	75 75 100 100 150 150	E27 E27 E27 E27 E27 E27	5200 5500 7900 8100 12500 12500	- - - - - -	- - - - - -	15000 15000 15000 15000 15000 15000	2900 3800 2900 3800 2900 3800	80 80 80 80 80 80	1B 1B 1B 1B 1B 1B
Metal halide quartz reflector BriteSpot ES50 UV Stop		ES50 ES50 ES50 ES50 ES50 ES50	HIPAR51 HIPAR51 HIPAR51 HIPAR51 HIPAR51 HIPAR51	MR MR MR MR MR MR	51 51 51 51 51 51	62.5 62.5 62.5 62.5 62.5 62.5	20 20 20 35 35 35	GX10 GX10 GX10 GX10 GX10 GX10	3300 3300 3300 3300 3300 3300	3500 2000 1000 7000 4000 2000	24 38 60 24 38 60	6000 6000 6000 6000 6000 6000	3000 3000 3000 3000 3000 3000	85 85 85 90 90 90	1B 1B 1B 1A 1A 1A
Metal halide quartz reflector Dichroic BriteSpot ESD50 Coolbeam Universal UV Stop		ES50 ES50 ES50	HIPAR51 HIPAR51 HIPAR51	MR MR MR	51 51 51	62.5 62.5 62.5	35 35 35	GX10 GX10 GX10	3300 3300 3300	7000 4000 2000	24 38 60	6000 6000 6000	3000 3000 3000	90 90 90	1A 1A 1A
Metal halide quartz reflector BriteSpot ES111 UV Stop		ES111 ES111 ES111	HIPAR111 HIPAR111 HIPAR111	MR MR MR	111 111 111	75 75 75	35 35 35	GX10 GX10 GX10	3300 3300 3300	4000 1000 3500	8 24 45	6000 6000 6000	3000 3000 3000	90 90 90	1A 1A 1A
Metal halide quartz reflector Dichroic BriteSpot ESD111 Coolbeam Universal UV Stop		ES111 ES111	HIPAR111 HIPAR111	MR MR	111 111	75 75	70 70	GX10 GX10	3300 3300	2000 7000	24 45	6000 6000	3000 3000	90 90	1A 1A

Lamp information

HID SODIUM

Title		Sylvania	ZVEI	ILCOS	Ø (mm)	Length (mm)	Pn (W)	Cap	Initial flux (lm)	Peak Intensity (cd)	Beam angle (°)	Av. Life (h)	Colour temp. (K)	Ra (%)	Ra (Class)
High pressure sodium ceramic capsule SDW-TG		-	HST-CRI	STH	20	96	100	GX12	4800	-	-	5000	2550	83	1B
High pressure sodium ceramic capsule SDW-T		-	HST-CRI	STH	32	149	100	PG12-1	5000	-	-	5000	2500	83	1B
High pressure sodium ceramic tubular double ended NAV-TS		-	HST-DE	SD	22	117.6	70	Rx7s	6800	-	-	26000	2100	23	4
		-	HST-DE	SD	25	135.6	150	Rx7s-24	15000	-	-	26000	2100	23	4
High pressure sodium ceramic tubular SON-T		SHP-T	HST	ST	39	156	50	E27	3500	-	-	15500	2050	25	4
		SHP-T	HST	ST	39	156	70	E27	6000	-	-	15500	2050	25	4
		SHP-T	HST	ST	48	211	100	E40	10000	-	-	26000	2500	25	4
		SHP-T	HST	ST	48	211	150	E40	14500	-	-	15500	2050	25	4
		SHP-T	HST	ST	48	260	250	E40	28000	-	-	25000	2050	25	4
		SHP-T	HST	ST	48	292	400	E40	48000	-	-	25000	2050	25	4
High pressure sodium ceramic tubular SON-T mercury free		SHP-TS	HST-MF	ST	39	156	50	E27	4200	-	-	23000	2050	23	4
		SHP-TS	HST-MF	ST	39	156	70	E27	6800	-	-	23000	2050	23	4
		SHP-TS	HST-MF	ST	48	211	100	E40	10000	-	-	23000	2050	23	4
		SHP-TS	HST-MF	ST	48	211	150	E40	17000	-	-	23000	2050	23	4
		SHP-TS	HST-MF	ST	48	260	250	E40	32000	-	-	30000	2050	25	4
		SHP-TS	HST-MF	ST	48	292	400	E40	55000	-	-	30000	2050	25	4
High pressure sodium ceramic elliptical SON with internal ignitor		-	HSE-I	SE	72	165	50 j	E27	3500	-	-	15500	2050	23	4
		-	HSE-I	SE	72	165	70 j	E27	5600	-	-	15500	2050	23	4
High efficacy SON requires external ignitor		SHP-S	HSE-E	SE	72	165	50 u	E27	3600	-	-	23000	2050	23	4
		SHP-S	HSE-E	SE	72	165	71 u	E27	6800	-	-	23000	2050	23	4

HID MERCURY

Title		Sylvania	ZVEI	ILCOS	Ø (mm)	Length (mm)	Pn (W)	Cap	Initial flux (lm)	Peak Intensity (cd)	Beam angle (°)	Av. Life (h)	Colour temp. (K)	Ra (%)	Ra (Class)
High pressure mercury quartz elliptical comfort MBF/U comfort/super de luxe		HSL-SC	HME	QE	56	130	50	E27	2000	-	-	29000	3400	60	2B
		HSL-SC	HME	QE	71	166	80	E27	4000	-	-	29000	3400	60	2B
		HSL-SC	HME	QE	76	178	125	E27	6500	-	-	29000	3400	60	2B
High pressure mercury quartz elliptical HSL-BW		HSL-BW	HME	QE	56	130	50	E27	1800	-	-	29000	4000	42	3
		HSL-BW	HME	QE	71	166	80	E27	3800	-	-	29000	4000	42	3
		HSL-BW	HME	QE	76	178	125	E27	6300	-	-	29000	4000	42	3
		HSL-BW	HME	QE	91	228	250	E40	13000	-	-	29000	4000	42	3
		HSL-BW	HME	QE	122	292	400	E40	22000	-	-	29000	3800	42	3
		HSL-BW	HME	QE	152	357	700	E40	40000	-	-	29000	4000	42	3
		HSL-BW	HME	QE	167	411	1000	E40	58000	-	-	29000	4000	42	3
High pressure mercury quartz elliptical self-ballasted HSL-BW 230V		HSB-BW	HME-SB	QB	76	178	160	E27	3100	-	-	16000	3500	42	3
		HSB-BW	HME-SB	QB	91	233	250	E27	5600	-	-	16000	3500	42	3
		HSB-BW	HME-SB	QB	91	228	250	E40	5600	-	-	16000	3500	42	3
		HSB-BW	HME-SB	QB	122	292	500	E40	14000	-	-	16000	3500	42	3
		HSB-BW	HME-SB	QB	76	178	160	E27	3100	-	-	16000	3500	42	3
		HSB-BW	HME-SB	QB	76	178	160	B22d	3100	-	-	16000	3500	42	3
		HSB-BW	HME-SB	QB	91	228	250	E40	5600	-	-	16000	3500	42	3
		HSB-BW	HME-SB	QB	122	292	500	E40	14000	-	-	16000	3500	42	3
Low pressure mercury induction elliptical QL		-	LMG-IHF	FSG	111	181	85	-	6000	-	-	60000	2700/3000/4000	80	1B
		-	LMG-IHF	FSG	131	210	165	-	12000	-	-	60000	2700/3000/4000	80	1B

Lighting control systems provide tremendous flexibility in the control of modern lighting installations and can generate significant energy savings. Energy can be conserved through switching off light fittings when they are not required, or electrically dimming them when areas are over illuminated, for example in rooms that are regularly exposed to bright daylight. Control systems can also improve the simplicity of operation of large lighting installations, automating regular switching patterns, regulating light levels and allowing entire floors or buildings to change from 'daytime' to 'night-time' illumination settings at the press of a single button.

We are able to arrange the planning and commissioning of a broad range of control systems tailored to meet the requirements of each specific installation from a simple luminaire including daylight linking to sophisticated PC controlled systems incorporating hundreds or thousands of luminaires. A brief summary of control principals and technologies follows, for further information on the range of control systems available please contact our local sales organisation.

TYPES OF CONTROL

On/off switching

- Local switch control
Lighting control at its most basic - the use of a local switch plate to turn light fixtures on and off as required.
- Occupancy sensing
Utilises passive infra-red detectors (or other types of presence detector) to switch fixtures off automatically when areas are left unoccupied.
- Timed control
Automates the switching on and off of luminaires during the day i.e. to ensure that all (or selected) luminaires are switched off at times when the building, or areas within the building, will be unoccupied. These timed events can also be based on an astronomical clock, allowing the automated times to be offset to sunrise and sunset.

Dimming

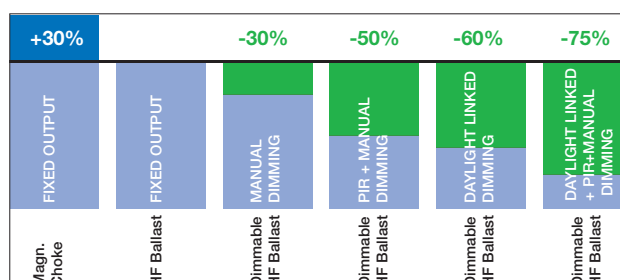
With modern dimmable fluorescent control gear, the degree of dimming applied correlates directly to the reduction in the amount of energy consumed, which can result in significant savings if dimming is correctly utilised in a lighting installation.

- Local dimming control
Allows fittings to be dimmed through the use of a local switch plate, providing a greater degree of control to the occupants of the space.

- Daylight linking/harvesting
Uses photocells to maintain a set minimum illumination level within an area by either switching or dimming fixtures as the amount of daylight within an area increases or decreases.
- Timed control
With dimmable ballasts timed control systems can be used to adjust dimming levels automatically throughout the day dropping light levels at night and during peak hours of daylight.

SCENE SETTING

Combines elements of simple on/off switching and dimming control to create pre-set lighting scenes. Each scene could feature different dimming levels for luminaires or have certain luminaires switched off. Multiple scenes can be created to allow for different uses of the space, or to create different moods and these can be recalled either by a local switch plate or automated through the use of time control. For example a flexible open plan office space could have pre-set scenes with all lights on at 100% for cleaning, wall lighting at 100% and ceiling lights dimmed via a photocell for general office lighting and wall lights off with selected ceiling fittings dimmed and others at 100% for training events or presentations. A night scene could also be created leaving only selected luminaires on, dimmed to 10% to provide enough light for security staff.



An illustration of the type of energy savings available with the installation of various control technologies.

LAMP TYPES SUITABLE FOR DIMMING

With the correct ballast or transformer a number of light sources can be dimmed, these include:

- Linear and compact fluorescent (Dimmed by the use of a control signal to a dimmable fluorescent ballast)
- Mains voltage tungsten and tungsten halogen (Dimmed through the regulation of the voltage to the lamp)
- Low voltage tungsten (Dimmed by chopping either the leading or trailing edge of the supply voltage)
- Light emitting diodes (Dimmed through the regulation of the voltage to the lamp or by Pulse Wide Modulation (PWM))
- Some HID sources

For details of whether a particular fitting in this catalogue is suitable for dimming control please contact the sales office.

THE CONTROL INTERFACE TO THE FITTING

Switched Mains Dimming

A variety of different systems are available, but all work using mains voltage as a control signal. Depending on how long a conventional push to make switch is held down the ballast can interpret the signal either as a dimming or switching command.

1-10 Analogue Regulated Technology

Analogue ballasts incorporate a dimming circuit which regulates the lamp power - typically between 10-100% depending on lamp or fixture type, normally controlled through either a linear or rotary potentiometer (dimmer). On/off control requires a separate on/off switch within the circuit.

Regulation parameters:

- No signal/connection = full output
- 10 = full output
- 1 = minimum output

Changes in light level tend to have a non-linear appearance to the human eye when the dimming is adjusted. The maximum number of ballasts on a circuit is dependent upon the total control circuit current and the potentiometer capacity. Any change to the system may require the system to be re-wired.

DSI - Digital Serial Interface

With this system both on/off and 1% - 100% power regulation are achieved by means of a digital signal broadcast to all of the ballasts on a control circuit (loop). Control requires the use of more sophisticated equipment, but a greater degree of control flexibility is available when compared to analogue systems and changes to the system are easier to accommodate. Control is usually achieved through the use of more sophisticated switch plates or remote control devices to recall and adjust desired dimming levels. The dimming curve used in DSI ballasts ensures that changes in light

level are friendlier to the human eye when compared to the traditional 1-10 volt ballast. With DSI there is the potential for a maximum of 100 ballasts per loop.

DALI - Digital Addressable Lighting Interface

DALI ballasts provide both power regulation and on/off switching along with a degree of local intelligence within each ballast, reducing the complexity of the control system. In a DALI system each ballast on a loop can be individually addressed and controlled, providing potential to greatly reduce the wiring complexity and allowing changes to the system to be achieved by simply reprogramming the ballasts. Each DALI loop can accommodate a maximum of 64 ballasts and each ballast can be allocated to up to 16 control groups. A maximum of 16 pre-programmed scenes levels can also be programmed into each ballast, for easy recall by the control system.

Additionally DALI can provide:

- Function checks of ballasts and lamps in each fixture from a central position.
- Storage of pre-programmed information in the ballast (e.g. pre-set illumination levels of fixture grouping).

Changes in light level tend to have a linear appearance when the dimmer is adjusted.

COMPLIANCE



The European Norm Electromechanical Certification (ENEC) has been adopted as a common mark of conformity with European Standards. A mark issued by any single national approbation body implies compliance with all seventeen international bodies. The ENEC mark replaces the national test house symbol, and is appended by a number indicating from which test house the approbation originated.

COMPLIANCE TO STANDARD



Quality Registered

All lighting fixtures produced by Concord:marlin are designed, manufactured and tested under a quality assurance system in accordance with BS EN ISO 9001:2000, and are designed to comply with EN 60598 under certificate number FM 01687.

Also, the company employs an environmental management system under certificate number EMS 39002 that complies with BS EN ISO 14001:1996.

MARKING



CE marking indicates compliance with the requirements of:

1. Low voltage directive for electrical safety (73/23/EEC as amended by 93/96/EEC)
2. EMC directive for electro magnetic compatibility (89/336/EEC as amended by 92/31/EEC)

VOLTAGE

Fittings and transformers are supplied primarily for operation on 230/240V 50 Hz. For alternative electrical specifications contact Technical Support Department or Marlin International Department

ELECTRICAL PROTECTION

EN 60598



Class I- fittings comply with class I earthed electrical requirements i.e. functional insulation in all parts and earth termination.



Class II- fittings comply with class II double insulated electrical requirements i.e. complete insulation in all parts without earth termination. In the event of an electrical fault, no dangerous voltage can reach touchable metal parts.



Class III- fittings comply with class III, where protection against electrical shock relies on supply at safely extra-low voltage (SELV) and in which voltages higher than those of SELV are not generated.

INFLAMMABILITY OF SURFACE PROTECTION

EN 60598



F mark - fittings comply with installation requirements for mounting on flammable surfaces.

RADIO SUPPRESSION

EN 55015, EN 61000 & EN 61547

Fittings comply with radio interference suppression and electromagnetic compatibility (EMC) regulations.

DEGREE OF PROTECTION

EN 60529

The resistive performance of fittings to solids and liquids is indicated by the IP (Ingress Protection) prefix followed by two numbers. The first number indicates the measure of protection against the ingress of solids. The second number indicates the measure of protection against the ingress of liquids.

First identification number

Protection against the ingress of solids

Symbol	Number	Measure of protection	Test
	IP2X	Against foreign bodies $\geq 12.5\text{mm } \varnothing$	Ball 12mm $\varnothing$ and finger test
	IP3X	Against foreign bodies $\geq 2.5\text{mm } \varnothing$	Steel wire 2.5mm $\varnothing$
	IP4X	Against foreign bodies $\geq 1.0\text{mm } \varnothing$	Steel wire 1.0mm $\varnothing$
	IP5X	Against harmful dust deposits (dust proof)	Talcum powder – particles 1 $\mu\text{m } \varnothing$
	IP6X	Against any entry of dust (dust tight)	Talcum powder – particles 1 $\mu\text{m } \varnothing$

Second identification number

Protection against the ingress of liquids

Symbol	Number	Measure of protection	Test
	IPX1	Against falling drops of water	Water falling vertically
	IPX2	Against falling drops of water	Water falling up to 15 ° from vertical
	IPX3	Against spraying water (rain proof)	Water sprayed at 60 ° from vertical
	IPX4	Against splashed water (splash proof)	Water from all directions
	IPX5	Against jets of water (jet proof)	Water from all directions projected by a nozzle
	IPX6	Against heavy seas or powerful water jets	Water from all directions projected by a nozzle
	IPX7	Against temporary immersion effects, and not for continuous underwater application	Immersion in water < 1m for 30 minutes
	IPX8	Against continuous submersion (pressure water-tight)	Immersion in water $\geq 1\text{m}$ for 30 minutes – max. depth tested indicated after symbol

DEGREE OF IMPACT PROTECTION

EN 50102

The resistive performance of fittings to external mechanical impacts the IK code prefix followed by two numbers.

Number	Measure of protection - impact energy (J)	Test
01	0.15	0.2 kg springhammer
02	0.2	0.2 kg springhammer
03	0.35	0.2 kg springhammer
04	0.5	0.2 kg springhammer
05	0.7	0.2 kg springhammer
06	1	0.5 kg impact from 0.2m
07	2	0.5 kg impact from 0.4m
08	5	1.7 kg impact from 0.3m
09	10	5.0 kg impact from 0.2m
10	20	5.0 kg impact from 0.4m

DEGREE OF TEMPERATURE PROTECTION

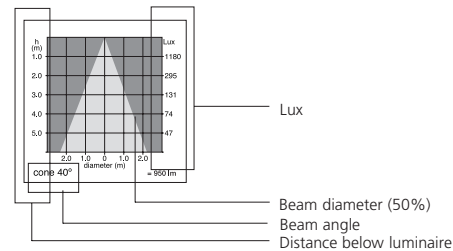
EN 60598-2-13 (proposal currently under discussion)

The maximum permissible surface temperature and static load on the fitting for a maximum protrusion above the ground by ground recessed fittings is indicated by the 'C' prefix followed by one number. All luminaires should meet both IP65 and IP67 protection ratings.

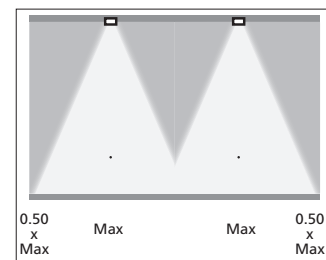
No.	Installation	Surface Temp - max. Metal	Surface Temp - max. Non-metal	Static load max.	Protrusion above ground
C1	Circulation areas only	180°C	180°C	500kg	-
C2	Areas limited to pedestrians and pedal cycles only	75°C	85°C	1000kg	25mm
C3	Areas for automotive parking, approach ways, carriageways, occasional circulation of either pedestrians or bicycles	75°C	85°C	2000kg	75mm
C4	Areas as C3 but allowing for the possible use of snowploughs and/or de-icing agents	75°C	85°C	2000kg	0mm
C5	Sensitive areas, swimming, circulation areas, children's nurseries	40°C	40°C	500kg	25mm

PHOTOMETRIC DATA

Performance Cones

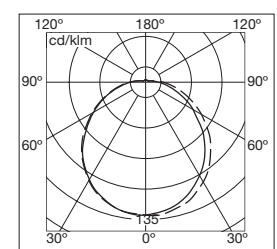
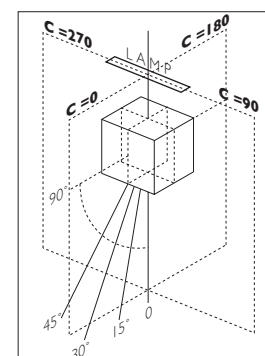


Performance cones indicate beam spread, ie. a narrow, medium or broad beam of light. The illuminance values given (lx/klm) are the maximum values within the beam for horizontal planes at various distances below the luminaire. The beam diameter, ie. the approximate size of the light coverage, is also given. The cone widths are calculated for an illuminance at the edge of the cone of 50% of the maximum. By spacing luminaires at the beam diameter for the appropriate height, the combined effect of adjacent cones is to produce an acceptable uniformity along the centre lines between luminaires. (See figure below).



Polar Diagram

These provide a graphic representation of the distribution of light from a luminaire. Often referred to as polar curves, they indicate the intensity, measured in candelas (cd) per 1000 lumens.



DLOR = upward light output ratio
ULOR = downward light output ratio

Additional photometric data can be provided upon request.

All data is also available in CIBSE TM14, EULUMDAT and IES NA formats. A complementary lighting design service is also available, to provide guidance and recommendations and to ensure lighting solutions are tailored to customer requirements. Supporting this service are the latest computer software facilities enabling accurate predictions and performance checks to be carried out.

CLASSIFICATION OF BALLAST-LAMP CIRCUIT FOR ENERGY EFFICIENCY IN LIGHTING



WITH DEFINED LIMITING VALUE FOR EACH CLASS

According to the CELMA (the European Federation of the National Associations of the manufactures of luminaires, control gears and lampholders) classification scheme the following classes and typical ballast types exist:

- **Class B2:** magnetic ballasts with low losses.
- **Class B1:** magnetic ballasts with very low losses.
- **Class A3:** electronic ballasts.
- **Class A2:** electronic ballasts with reduced losses.
- **Class A1:** dimmable electronic ballasts.

Dimmable ballasts are classified A1 if they fulfil the following requirements:

- at 100% light output setting the ballast fulfils at least the demands belonging to A3;
- at 25% light output setting the total input power is equal to or less than 50% of the power at the 100% light output setting;
- the ballast must be able to reduce the light output to 10% or less of the maximum light output.

Electronic ballasts (conforming to CELMA energy efficiency scheme classes A1, A2 and A3) are major power savers. They even reduce the power consumption of ballastlamp circuits to less than the rated power of the lamp at 50Hz. This is caused by the increased lamp efficiency at high frequencies (>20kHz), leading to about 10% less lamp power and a decrease of the ballast losses.

APPLICATION OF IP RATINGS WITHIN DAMP LOCATIONS

Damp skin offers little protection against current flow through the body. Therefore, special safety requirements are placed on fixtures in bathrooms, both with regard to the ingress of water (IP) and to the protection class against electrical shock.

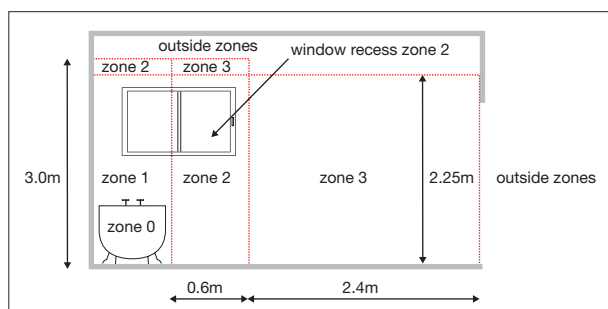
Guidance is provided by the above standard to the selection of luminaires within locations containing baths, showers and cabinets that contain a shower /and or bath; along with the surrounding areas. Where these locations are for medical treatment, or are for disabled persons, other special requirements may be required.

Zone Equipment permitted IP requirements

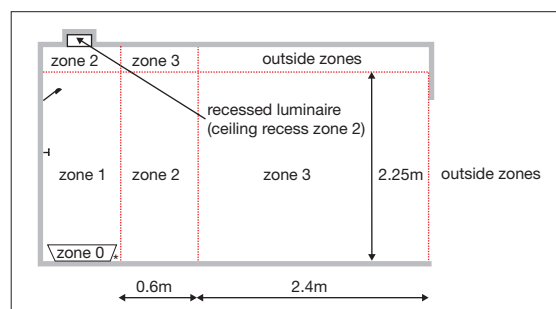
0	No switch gear	IPX7
1	Luminaires	IPX4 IPX5 if water jets are likely to be used
2	Luminaires	IPX4 IPX5 if water jets are likely to be used
3	No limitation on fixed equipment	IP20 recommended IPX5 if water jets are likely to be used

Protection against electric shock

Zone 0	Class I
Zone 1	Class II
Zone 2	Class III
Zone 3	Class I, II and III
No zone	Class I, II and III

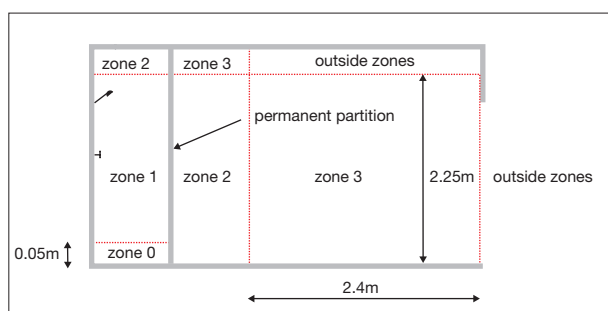


a) bath tub



b) shower with basin

*Zone 1 if the space is accessible without the use of a tool.
Spaces under the bath, accessible only with the use of a tool are outside the zones.



c) shower without basin but with permanent fixed partition fixed water outlet not demountable

Note - Different regulations may apply in some countries an in specific projects. If in doubt, consult an expert.

BALLAST LUMEN FACTOR BLF (%)

Refers to the ratio of light output from the lamp on emergency operation to the nominal light output.

LUMINOUS INTENSITY (cd)

The power of a source or illuminated surface to emit light in a particular direction, measured in candela.

COLOUR RENDERING INDEX RA (%)

A measure of the degree to which the colour rendition of a light source differs on average from that of the lamp. At Ra(8) the illuminant (perceived) colour shift of eight reference colours is measured to give one number. Values of 100 - 90 are very good, 90 - 80 good and lamps with Ra's below 80 should not be used where people are working continuously.

COLOUR TEMPERATURE T(K)

Black bodies (like most others) when heated to sufficiently high temperatures emit red light, when the temperature is increased further the emitted light becomes white.

The colour co-ordinates derived from this heated black body (a full spectral, or perfect radiator) when plotted on a diagram lie on a smooth curve known as the full radiator locus, and are shown on the CIE Chromacity Diagram.

The colour appearance of a given light source can be compared to a position on the full radiator locus by reference to its colour temperature, and is generally quoted in degrees Kelvin.

GLARE

Glare is the discomfort caused by high luminances in the field of vision.

LIGHT

Electromagnetic radiation with a wavelength between 380 - 720nm. Ultraviolet light has a wavelength of less than 380nm whilst infrared light's is greater than 720nm.

LIGHTING LEVEL

The incidence of light flux on a surface per unit of area, measured in lux. There is a difference between the vertical and horizontal lighting level.

LIGHT OUTPUT RATIO (LOR)

The ratio of the luminaire light output to lamp light output. The efficiency of the luminaire.

LUMEN (lm)

Unit of luminous flux used to describe a quantity of light emitted by a source or received by a surface.

LUMINAIRE EFFICIENCY (lm/W)

How well a luminaire uses the luminous flux of the lamp(s) employed. This ratio is calculated by dividing the total luminaire lumens by the total circuit watts.

LUMINANCE (cd/m²)

The measure of brightness with which the eye perceives an illuminated surface from a certain direction. The luminous intensity per unit of visible surface of a light source (direct) or an illuminated surface (reflection). Luminance is indicated in candelas per square metre.

LUMINOUS EFFICACY (lm/W)

Indicates how efficiently a lamp converts electrical energy to light.

LUMINOUS FLUX (lm)

The total light output of a lamp measured in lumen.

LUX (lx)

The unit of illuminance, equal to one lumen per square metre (lm/m²).

MAINTENANCE FACTOR

Lighting levels decrease in time due to soiling and lamp deterioration. Mean values are 0.7 or 0.8 for a normal interior, depending on cleaning cycles.

PERFORMANCE CONE

Shows whether the luminaire emits a narrow or wide beam of light and indicates the lighting level measured at the centre of the beam. The beam diameter and angle indicate where half the light is measured in relation to the centre of the beam. It gives only a rough guide of the size of beams narrower than 40°.

POLAR CURVE

The graphic representation of the luminous intensity in different directions. If two curves are plotted, the distributions are in two vertical planes. The value is indicated in candelas per 1000 lumen (cd/klm) and therefore must be multiplied by the nominal luminous flux of the lamp(s) used. The polar curve graph also indicates the LOR.

ROOM INDEX k

An index relating to the dimensions of a room influencing the amount of light emitted from the fitting onto the working surface.

$$k = \frac{a \times b}{h \times (a+b)}$$

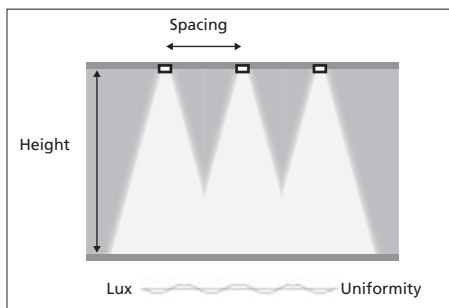
where: a = room length b = room width h = height between the luminaire and working surface

SHIELDING ANGLE (°)

The horizontally measured angle from which the lamp or reflection from it in the reflector is no longer visible. It is an important measure of glare and, therefore, light comfort.

SPACING TO HEIGHT RATIO (SHR)

Used to determine the maximum distance between luminaires. The ratio of the distance between adjacent luminaires to the distance between the luminaire plane and the horizontal working plane.



Uniformity ratio of illuminance

This indicates the degree of evenness of the light on the working surface and is shown as a ratio of the minimum to the mean lighting level on a surface. The lower the number the more disturbing the light.

UTILISATION FACTOR

The ratio of the light flux which the reference surface receives to the totalled luminous fluxes of the installation lamps. This is influenced by the shape of the room and selected luminaire and is expressed in the form of UF tables.

DOWNWARD FLUX FRACTION (DFF)

The factor of the total LOR, which is downward, taking the combined ULOR and DLOR as 100%. Using Cassini as an example, the DLOR is 37% and the ULOR is 15% so the combined is 52%. If this is taken as 100% LOR, 72% is downward (37% divided by 52%).



European Norms Electrical Certification



B.S.I. Kite Mark (U.K.)



Product suitable for direct mounting on normally flammable materials.



Product suitable for direct mounting on non-flammable materials only.



Product suitable for mounting on insulated ceilings.



Looping. Suitable for connection in parallel.



Class I – Fully functionally insulated and provided with earth connection.



Class II – Double-insulated or provided with reinforced insulation, not earthed.



Class III – Protection against electric shock dependent on connection to SELV chains (Safe Extra Low Voltage).



Tilt. Rotation from vertical to horizontal.



Turn. Rotation around the vertical axes.



Passes the 850°C glow wire test with an extinction time of 30 seconds.



Passes the 960°C glow wire test with an extinction time of 5 seconds.



Ingress protection (for degrees of protection see page 578).



Impact protection (for degrees of protection see page 579).



Product suitable for mounting in or on furniture made of semi-incombustible or normally combustible materials such as wood.



Product suitable for mounting in or on furniture made of materials of unknown properties.

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EUROPE

Austria
Vienna
T. +43 (0)1617 4480
F. +43 (0)1617 4481
info.at@havells-sylvania.com

Belgium
Antwerp
T. +32 (0)3 610 44 44
F. +32 (0)3 610 44 57
info.be@havells-sylvania.com

**Bulgaria, Romania
and Macedonia**
Sofia
T. +359 885 971 285
F. +359 2 981 34 92
info.bg@havells-sylvania.com

Czech Republic and Slovakia
Brno
T. +420 545 231 345
F. +420 545 231 346
info.cz@havells-sylvania.com

East Europe
Erlangen
T. +49 (0)9131 793 499
F. +49 (0)9131 793 496
info.de@havells-sylvania.com

Finland
Helsinki
T. +358 (0)9 5421 2100
F. +358 (0)9 5421 2130
info.fi@havells-sylvania.com

France
Paris
T. +33 (0)1 55 51 11 00
F. +33 (0)1 55 51 11 15
info.fr@havells-sylvania.com

Germany
Erlangen
T. +49 (0)9131 793 500
F. +49 (0)9131 793 345
info.de@havells-sylvania.com

Greece
Athens
T. +30 210 996 65 61
F. +30 210 996 90 29
info.gr@havells-sylvania.com

Hungary
Budapest
T. +36 (30) 50 69 182
F. +36 (24) 423 563
info.hu@havells-sylvania.com

Italy
Milan
T. +39 02 24 12 58 11
F. +39 02 24 12 58 80
info.it@havells-sylvania.com

Netherlands
Breda
T. +31 (0)76 750 44 44
F. +31 (0)76 750 44 56
info.nl@havells-sylvania.com

Norway
Oslo
T. +47 23 067470
F. +47 23 067471
info.no@havells-sylvania.com

Poland
Poznan
T. +48 510 294 820
F. +48 61 8720 413
info.pl@havells-sylvania.com

Portugal
Lisbon
T. +351 21 793 77 36/37
F. +351 21 793 77 38
info.pt@havells-sylvania.com

Russia
Moscow
T. +7 495 935 70 48
F. +7 495 937 70 08
info.ru@havells-sylvania.com

South East Europe
**Serbia, Croatia, Slovenia,
Albania, Montenegro, Bosnia
and Herzegovina**
Belgrade
T. +381 (0)63 617 716
F. +381 (0)11 2398 305
info.see@havells-sylvania.com

Spain
Madrid
T. +34 (0)91 669 90 00
F. +34 (0)91 673 73 64
info.es@havells-sylvania.com

Sweden
Årsta
T. +46 8 556 322 00
F. +46 8 556 322 10
info.se@havells-sylvania.com

Switzerland
Zurich
T. +41 44305 31 80
F. +41 44305 31 81
info.ch@havells-sylvania.com

Turkey
Istanbul
T. +90 533 433 86 78
F. +90 212 343 46 10
info.tr@havells-sylvania.com

UK (Trade)
Shipley
T. +44 1274 532552
F. +44 1274 531672
info.uk@havells-sylvania.com

UK (Export)
Shipley
T. +44 1274 537 810
F. +44 1274 537 811
info.export@
havells-sylvania.com

UK (Specification)
Newhaven
T. +44 870 606 2030
F. +44 1273 512 688
info.concord@
havells-sylvania.com

MIDDLE EAST

United Arab Emirates
Dubai
T. +971 4 2998141
F. +971 4 2998142
info.ae@havells-sylvania.com

ASIA

China
Guangzhou
T. +86 20 3815 1138
F. +86 20 3869 7572
info.cn@havells-sylvania.com

India
Noida
T. +91 120 4771000
F. +91 120 4772000
marketing@havells.com

Malaysia
Kuala Lumpur
T. +603 2031 8788
F. +603 2031 4788

Thailand
Bangkok
T. +66 2656 9039 to 45
F. +66 2254 3369
info.th@havells-sylvania.com

Vietnam
Hanoi
T. +844 715 1604
F. +844 715 1605
info.vn@havells-sylvania.com

AMERICAS

Argentina
Buenos Aires
T. +54 11 4515 0215
F. +54 11 4515 0215
info.ar@havells-sylvania.com

Brazil
Sao Paulo
T. +55 11 3133 2400
F. +55 11 5521 3660
info.br@havells-sylvania.com

Colombia
Santafe de Bogota
T. +57 1 782 5200
F. +57 1 782 5362
info.co@havells-sylvania.com

Costa Rica
San José
T. +506 22 107 678
F. +506 22 200 338
info.cr@havells-sylvania.com

Ecuador
Quito
T. +593 2 328 4407
F. +593 2 281 0007
info.ec@havells-sylvania.com

El Salvador
San Salvador
T. +503 2239 2239
F. +503 2284 9670
info.sv@havells-sylvania.com

Guatemala
Guatemala City
T. +502 2387 5300
F. +502 2387 5301
info.gt@havells-sylvania.com

Mexico
Mexico D.F.
T. +52 55 5387 7670
F. +52 55 5387 7671
info.mx@havells-sli.com

Panama
Panama City
T. +507 236 1000
F. +507 236 1315
info.pa@havells-sylvania.com

USA
Mullins, SC
T. +1 843 464 0554
F. +1 843 464 2897
info.us@havells-sli.com

Venezuela
Caracas
T. +58212 381 0452
F. +58212 381 0350
info.ve@havells-sylvania.com

www.havells-sylvania.com

SYLVANIA Lumiance Concord