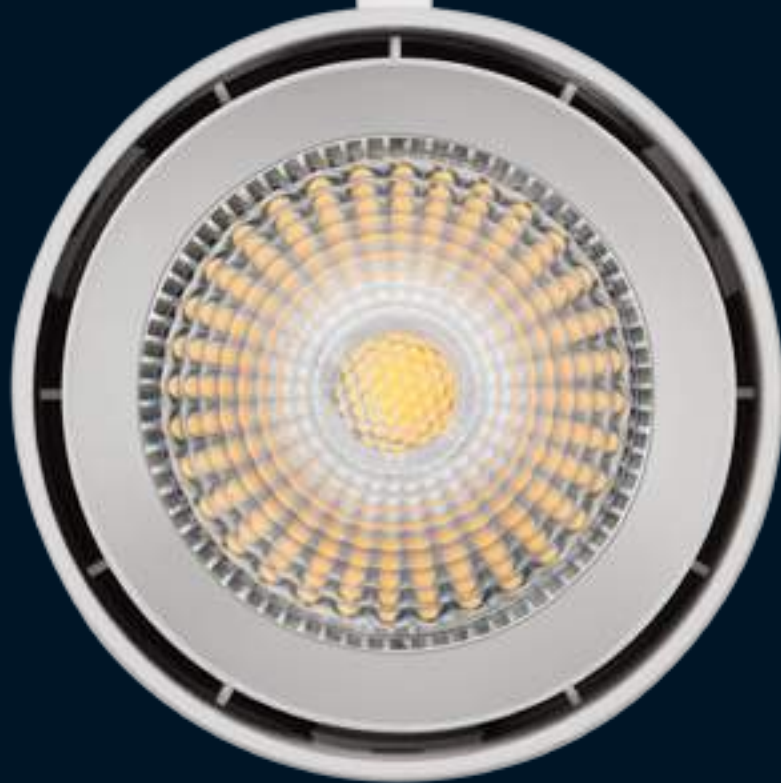




GRACION[®]

CATALOG 2017/18

GRACION LIGHTING

GRACION®

ILLUMINATE THE BEAUTY OF LIFE

ABOUT GRACION LIGHTING



SHOWROOM

GRACION LIGHTING

EN

GRACION was founded in 1991, today employs nearly 300 workers on 35,000 square meters. The headquarters are located in Guangzhou, with offices in Beijing, Hong Kong, Shanghai and starting from October 2016 also in Germany.

DE

GRACION 1991 gegründet, beschäftigt rund 300 Mitarbeitern auf 35.000 qm. Hauptsitz der Unternehmensgruppe ist Guangzhou, Niederlassungen gibt es in Peking, Hong Kong, Shanghai und ab Oktober 2016 in Deutschland.

ES

GRACION es una empresa fundada en 1991 que cuenta con 300 empleados. Dispone de 35.000 metros cuadrados en instalaciones. El grupo líder está en Guangzhou, teniendo oficinas también en Pekín, Hong Kong, Shanghai y desde el mes de octubre de 2016, también en Alemania.



www.gracion.com.cn

EN

From 1993 GRACION started to lead the way in the field of future lighting technology, anticipating the lighting developments.

We are dedicated to stability. GRACION offers a suitable balance between modern lighting design and economic accessibility. The lighting products and their visual experiences are designed to satisfy the customer aesthetically, functionally and economically.

GRACION provides technology in harmony with environmental awareness and social responsibility.

GRACION is complying to the European directives and German standards.

We have numerous references from international brands and companies and will continue to satisfy GRACION customers.

DE

GRACION gestaltet seit 1993 die Zukunft der Lichttechnologie und antizipiert lichttechnische Entwicklungen.

Wir fühlen uns der Nachhaltigkeit verpflichtet. Dazu zählt die Balance zwischen modernen Lichtdesigns und wirtschaftlicher Effizienz. GRACION produziert Leuchten und Lichterlebnisse, die die Kunden ästhetisch, funktionell und wirtschaftlich begeistern.

GRACION bietet Technik, gepaart mit Umweltbewusstsein und einer sozialen Verantwortung.

GRACION fertigt nach europäischen Richtlinien und deutschen Standards.

Wir haben zahlreiche Referenzen, international bekannter Marken und Unternehmen und möchten auch Sie künftig zu glücklichen GRACION Kunden machen.

ES

GRACION diseña y representa el futuro de la tecnología y desarrollos de la iluminación desde el año 1993.

Estamos comprometidos con la sostenibilidad, con ello se consigue un equilibrio perfecto entre el diseño moderno de la iluminación y la eficiencia económica. GRACION produce luminarias según las necesidades de nuestros clientes, funcional y económicamente.

GRACION ofrece las últimas novedades tecnológicas mientras estamos comprometidos con la conciencia ambiental y la responsabilidad social.

GRACION está constituida con directivas europeas y normas alemanas.

Contamos con numerosas referencias, grandes marcas conocidas a nivel internacional. Nuestra finalidad es continuar haciendo felices a nuestros clientes.

CORPORATE CULTURE



President: *Xiaoxi Wu*

和而不同，光而不耀

Unique and harmonious. Talent without ostentation

Our contemporary society lives the fast-food culture that is metaphorically eating away barriers of our historical wisdom and heritage. That is very frightening. Who remembers today slogans like "haste makes waste" or "accumulate richly and break forth vastly"? Everyone is drifting with the tide, people do not see their own reflections.

In GRACION, we are already well settled for several decades, we are free to create stylish quality products. We diligently cultivate our corporate culture. As a criterion, we constantly keep in our mind that the essence of our entire company is to lead the way forward. From generation to generation, every GRACION worker bears in mind to make products the way we live life: The aim is at Unique and harmonious. Talent without ostentation.



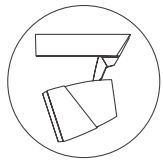
General Manager: *Annie Xu*

The rule directing an organization towards iterative upgrade can be called "gene". Generally, healthy and prosperous companies possess an excellent gene, which has been optimized already.

However, such rules are usually suitable only for a specific cultural / economic / business environment. Put in different context, the rules must be upgraded as genes need to be restructured or corrected.

A company at its "forming" stage has learned the rules of its iterative upgrade. In other words, it has mastered the mystery of genes. So everything about it will be running in order. But not only it is limited to keep everything in order, also it has the courage and ability to break the order at the appropriate time.

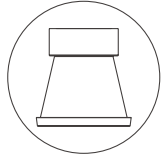
GRACION, a company at its forming stage.



Led Track Spotlight



Led Recessed Light



Led Dome Light & Droplight

PRODUCT OVERVIEW →
PRODUKT ÜBERSICHT →
DESCRIPCIÓN DEL PRODUCTO →

Introduction

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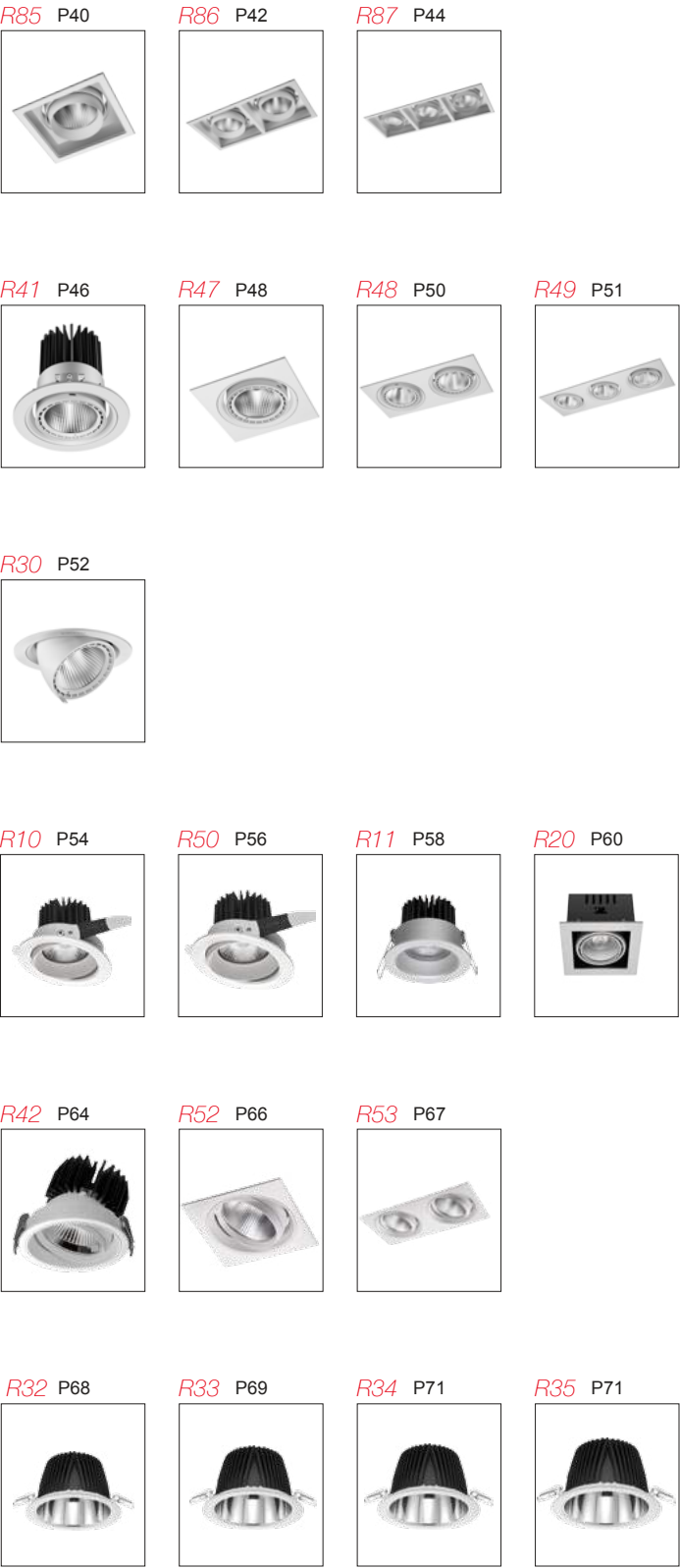
Led Track Spotlight Series



Led Recessed Light Series



Led Recessed Light Series



Led Recessed Light Series



Led Dome Light & Droplight Series



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Led Track Spotlight Series

EN

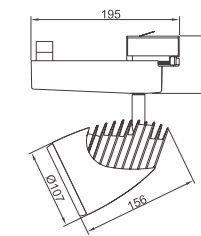
GRACION Track Spotlights represent innovative LED technology based on high-quality die-cast aluminum. The light heads are equipped with cooling ribs and an excellent thermal management system with a guaranteed durability of high quality of light. Various designs are available (rotatable and pivotable), depending on the desired lighting positioning, beam angle and wattages. Diverse light colors possibilities make GRACION LED Track Spotlights a versatile product with excellent design.

DE

GRACION Track Spotlights stehen für innovative LED Technik aus hochwertigem Aluminium Druckguss. Ein exzellentes Thermomanagement mit integrierten Kühlrippen im Leuchtenkorpus, garantieren eine Langlebigkeit bei gleichbleibend hoher Lichtqualität. (Basis 50.000 h). Variable Lösungen (dreh- und schwenkbar), je nach Beleuchtungssituation gewünschte Ausstrahlwinkel und Wattzahlen, sowie verschiedene Lichtfarben machen GRACION LED Track Spotlights zu einem vielseitigen Produkt mit ausgezeichnetem Design.

ES

En GRACION, aspiramos a la tecnología innovadora del LED de alta calidad. En las luminarias se han integrado nuevas formas de refrigeración para una excelente gestión térmica, garantizando así una vida útil más larga y una mayor calidad de la luz. Contamos con un amplio abanico de soluciones (rotativas y giratorias), depende de la situación de la iluminación y necesidades del ángulo del haz de luz y la potencia. La variedad de colores convierten a las luminarias de GRACION, en productos universales con un diseño excelente.



T12



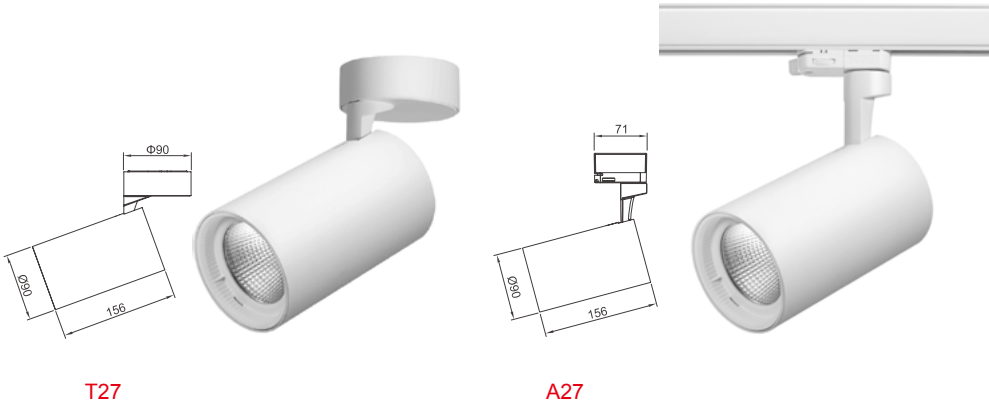


Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
T12 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	15°/ 24°/ 36°	36V	700mA	0.95	Built in
T12 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	15°/ 24°/ 36°	36V	700mA	0.95	Built in
T12 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	15°/ 24°/ 36°	36V	900mA	0.95	Built in
T12 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	15°/ 24°/ 36°	36V	900mA	0.95	Built in

For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K

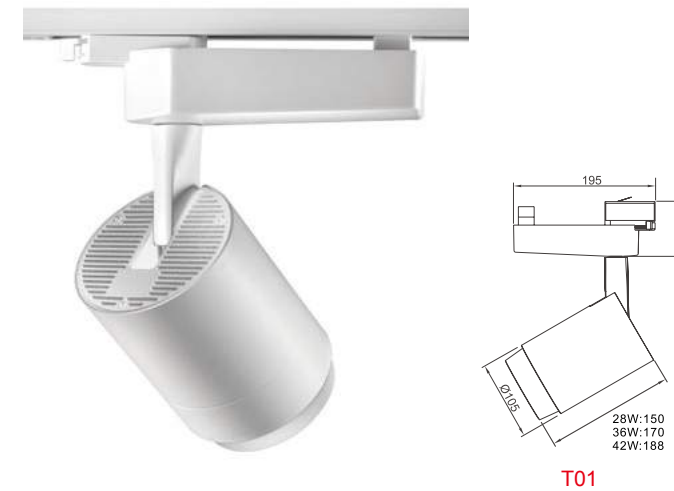


Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
T27 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	20°/ 36°	36V	700mA	0.95	Built in
A27 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	20°/ 36°	36V	700mA	0.95	Built in

For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K

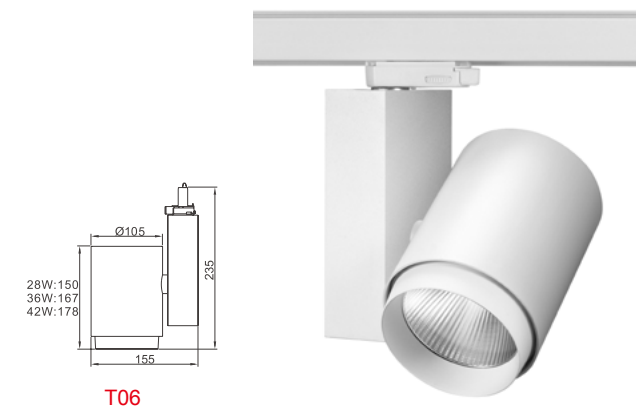


Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
T01 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	15°/ 24° 36°/ 45°	36V	700mA	0.95	Built in
T01 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	15°/ 24° 36°/ 45°	36V	700mA	0.95	Built in
T01 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	15°/ 24° 36°/ 45°	36V	900mA	0.95	Built in
T01 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	15°/ 24° 36°/ 45°	36V	900mA	0.95	Built in
T01 42W TRUE COLOR	42W	42W	WW:3000K NW:4000K	WW:4350 NW:4700	90	90 90	104 101	15°/ 24° 36°/ 45°	36V	1050mA	0.95	Built in
T01 42W RICH COLOR	42W	42W	WW:3000K	WW:3800	97	96	101	15°/ 24° 36°/ 45°	36V	1050mA	0.95	Built in
T01-FM 42W	42W	42W	FRESH MEAT COLOR	2600	—	—	—	15°/ 24° 36°/ 45°	36V	1050mA	0.95	Built in
T01-FT 42W	42W	42W	FRUIT AND VEGETABLE COLOR	4500	—	—	—	15°/ 24° 36°/ 45°	36V	1050mA	0.95	Built in
T01-B 42W	42W	42W	BAKERY COLOR	2850	—	—	—	15°/ 24° 36°/ 45°	36V	1050mA	0.95	Built in

For custom order, the following Power will be available : 50W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K

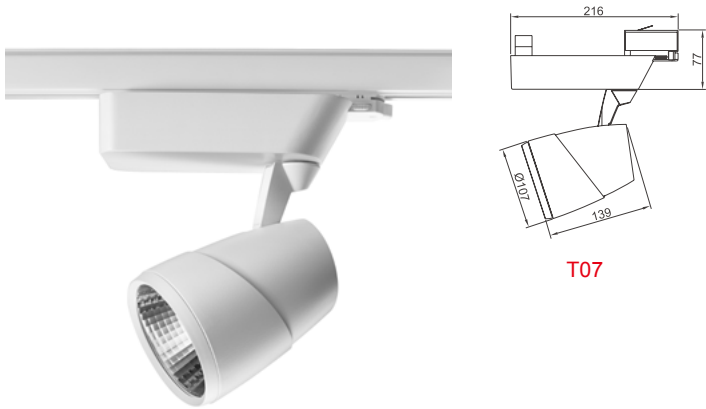


Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
T06 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	15°/ 24° 36°/ 45°	36V	700mA	0.95	Built in
T06 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	15°/ 24° 36°/ 45°	36V	700mA	0.95	Built in
T06 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	15°/ 24° 36°/ 45°	36V	900mA	0.95	Built in
T06 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	15°/ 24° 36°/ 45°	36V	900mA	0.95	Built in
T06-FM 36W	36W	36W	FRESH MEAT COLOR	2200	—	—	—	15°/ 24° 36°/ 45°	36V	900mA	0.95	Built in
T06-FT 36W	36W	36W	FRUIT AND VEGETABLE COLOR	3900	—	—	—	15°/ 24° 36°/ 45°	36V	900mA	0.95	Built in
T06-B 36W	36W	36W	BAKERY COLOR	2300	—	—	—	15°/ 24° 36°/ 45°	36V	900mA	0.95	Built in
T06 42W	42W	42W	WW:3000K NW:4000K	WW:5100 NW:5500	—	—	—	15°/ 24° 36°/ 45°	36V	1050mA	0.95	Built in
T06 42W TRUE COLOR	42W	42W	WW:3000K NW:4000K	WW:4350 NW:4700	—	—	—	15°/ 24° 36°/ 45°	36V	1050mA	0.95	Built in
T06 42W RICH COLOR	42W	42W	WW:3000K	WW:3800	—	—	—	15°/ 24° 36°/ 45°	36V	1050mA	0.95	Built in

For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
T07 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	14°/ 24°/ 36°	36V	700mA	0.95	Built in
T07 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	14°/ 24°/ 36°	36V	700mA	0.95	Built in
T07 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	14°/ 24°/ 36°	36V	900mA	0.95	Built in
T07 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	14°/ 24°/ 36°	36V	900mA	0.95	Built in
T07-FM 36W	36W	36W	FRESH MEAT COLOR	2200	—	—	—	14°/ 24°/ 36°	36V	900mA	0.95	Built in
T07-FT 36W	36W	36W	FRUIT AND VEGETABLE COLOR	3900	—	—	—	14°/ 24°/ 36°	36V	900mA	0.95	Built in
T07-B 36W	36W	36W	BAKERY COLOR	2300	—	—	—	14°/ 24°/ 36°	36V	900mA	0.95	Built in

For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



T21

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
T21 42W TRUE COLOR	42W	42W	WW:3000K NW:4000K	WW:4350 NW:4700	90	90 90	104 101	14°/ 24°/ 36°	36V	1050mA	0.95	Built in
T21 42W RICH COLOR	42W	42W	WW:3000K	WW:3800	97	96	101	14°/ 24°/ 36°	36V	1050mA	0.95	Built in
T21-FM 42W	42W	42W	FRESH MEAT COLOR	2600	—	—	—	14°/ 24°/ 36°	36V	1050mA	0.95	Built in
T21-FT 42W	42W	42W	FRUIT AND VEGETABLE COLOR	4500	—	—	—	14°/ 24°/ 36°	36V	1050mA	0.95	Built in
T21-B 42W	42W	42W	BAKERY COLOR	2850	—	—	—	14°/ 24°/ 36°	36V	1050mA	0.95	Built in
T21 50W TRUE COLOR	50W	50W	WW:3000K NW:4000K	WW:5000 NW:5400	90	90 90	104 101	14°/ 24°/ 36°	36V	1200mA	0.95	Built in

For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



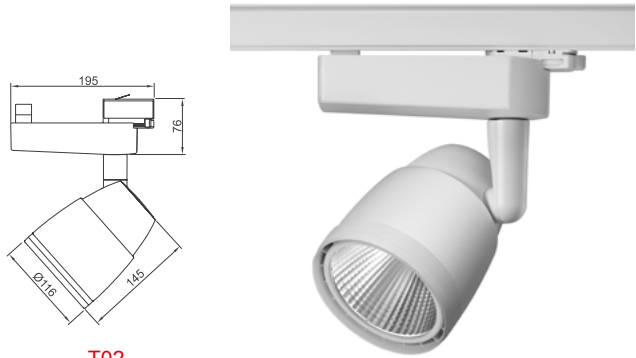


Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
T09 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	14°/ 24°/ 36°	36V	700mA	0.95	Built in
T09 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	14°/ 24°/ 36°	36V	700mA	0.95	Built in
T09 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	14°/ 24°/ 36°	36V	900mA	0.95	Built in
T09 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	14°/ 24°/ 36°	36V	900mA	0.95	Built in
T09 42W TRUE COLOR	42W	42W	WW:3000K NW:4000K	WW:4350 NW:4700	90	90 90	104 101	14°/ 24°/ 36°	36V	1050mA	0.95	Built in
T09 42W RICH COLOR	42W	42W	WW:3000K	WW:3800	97	96	101	14°/ 24°/ 36°	36V	1050mA	0.95	Built in
T09-FM 42W	42W	42W	FRESH MEAT COLOR	2600	—	—	—	14°/ 24°/ 36°	36V	1050mA	0.95	Built in
T09-FT 42W	42W	42W	FRUIT AND VEGETABLE COLOR	4500	—	—	—	14°/ 24°/ 36°	36V	1050mA	0.95	Built in
T09-B 42W	42W	42W	BAKERY COLOR	2850	—	—	—	14°/ 24°/ 36°	36V	1050mA	0.95	Built in

For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



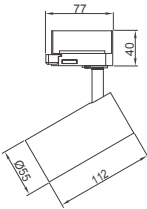
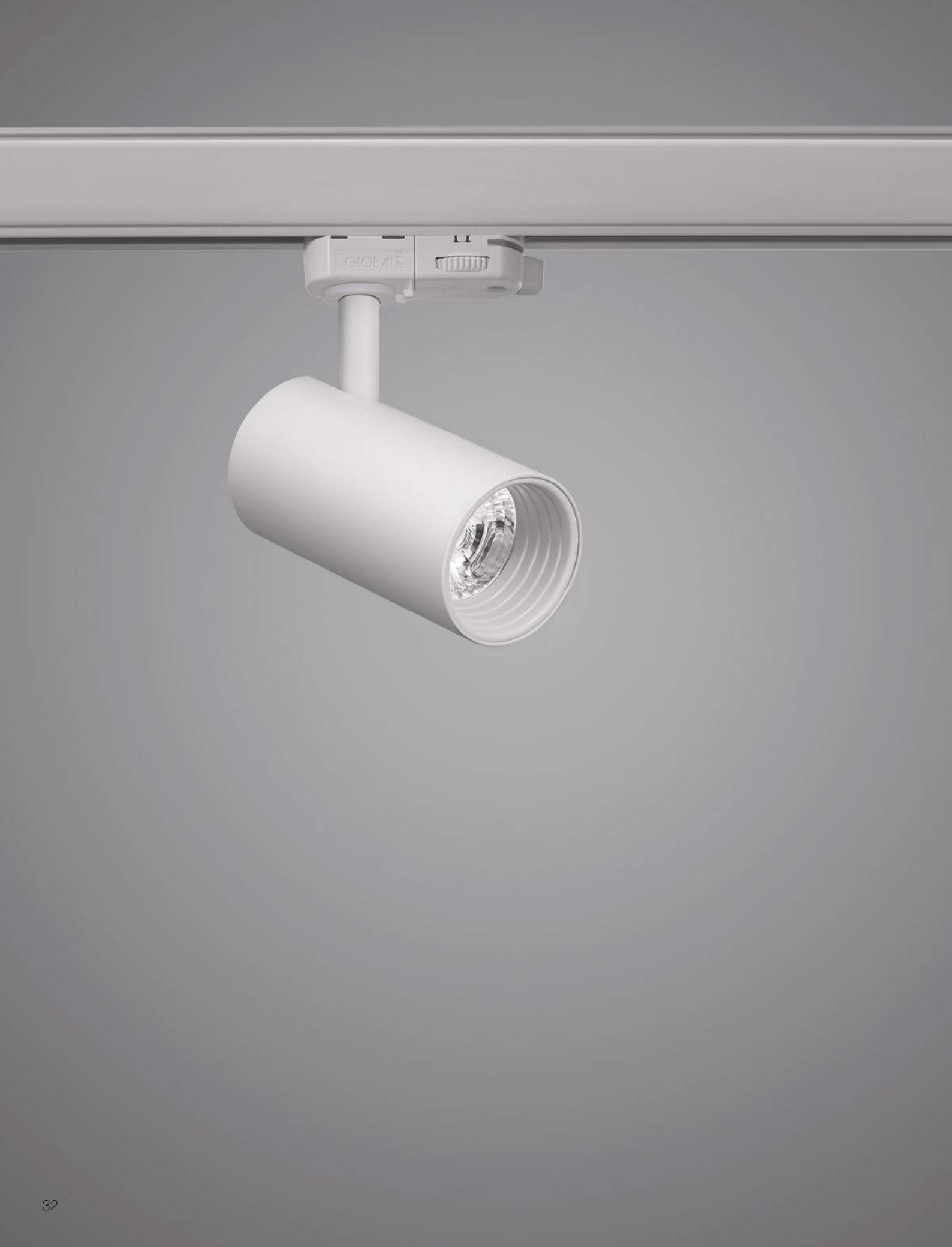
T02

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
T02 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	14°/ 24°/ 36°	36V	700mA	0.95	Built in
T02 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	14°/ 24°/ 36°	36V	700mA	0.95	Built in
T02 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	14°/ 24°/ 36°	36V	900mA	0.95	Built in
T02 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	14°/ 24°/ 36°	36V	900mA	0.95	Built in
T02 42W TRUE COLOR	42W	42W	WW:3000K NW:4000K	WW:4350 NW:4700	90	90 90	104 101	14°/ 24°/ 36°	36V	1050mA	0.95	Built in
T02 42W RICH COLOR	42W	42W	WW:3000K	WW:3800	97	96	101	14°/ 24°/ 36°	36V	1050mA	0.95	Built in
T02-FM 42W	42W	42W	FRESH MEAT COLOR	2600	—	—	—	14°/ 24°/ 36°	36V	1050mA	0.95	Built in
T02-FT 42W	42W	42W	FRUIT AND VEGETABLE COLOR	4500	—	—	—	14°/ 24°/ 36°	36V	1050mA	0.95	Built in
T02-B 42W	42W	42W	BAKERY COLOR	2850	—	—	—	14°/ 24°/ 36°	36V	1050mA	0.95	Built in

For custom order, the following Power will be available : 50W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



T26

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
T26 8W	8W	8W	WW:3000K	WW:950	80	82	98	15°/ 24°	36V	200mA	0.90	Built in

For custom order, the following CCT will be available : 2700K,4000K



Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
T24 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	15°/ 24° 36°/ 45°	36V	700mA	0.95	Built in
T24 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	15°/ 24° 36°/ 45°	36V	700mA	0.95	Built in
T24 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	15°/ 24° 36°/ 45°	36V	900mA	0.95	Built in
T24 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	15°/ 24° 36°/ 45°	36V	900mA	0.95	Built in
T24-FM 36W	36W	36W	FRESH MEAT COLOR	2200	—	—	—	15°/ 24° 36°/ 45°	36V	900mA	0.95	Built in
T24-FT 36W	36W	36W	FRUIT AND VEGETABLE COLOR	3900	—	—	—	15°/ 24° 36°/ 45°	36V	900mA	0.95	Built in
T24-B 36W	36W	36W	BAKERY COLOR	2300	—	—	—	15°/ 24° 36°/ 45°	36V	900mA	0.95	Built in

For custom order, the following Power will be available : 42W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



Led Recessed Light Series

EN

Design meets function

GRACION Downlights and Semi-recessed lamps are also part of the innovative LED technology with a GRACION thermal management system. This system guarantees a long service life with high quality of light. With the addition of GRACION designed reflector technology, the products not only achieve a high efficiency, but also enable their usage in various areas.

DE

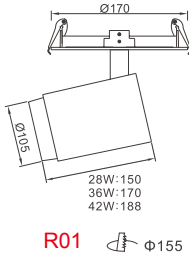
Design trifft Funktion

GRACION Einbauleuchten und Halbeinbauleuchten stehen ebenso für innovative LED Technik mit einem von GRACION entwickelten Thermomanagement. Das garantiert eine lange Lebensdauer bei hoher Lichtqualität. Mit einer von GRACION designten Reflektortechnik erreichen Sie höchst effiziente Wirkungsgrade. Das GRACION Design ermöglicht den Einsatz in vielen Bereichen.

ES

Todos los diseños cumplen su función.

Las luminarias y lámparas semiempotradas de GRACION también representan la innovación tecnológica del LED, con una gestión térmica desarrollada por GRACION. Esto garantiza una larga vida útil con la más alta calidad de la luz gracias a la tecnología de reflectores diseñada por GRACION para conseguir una eficiencia altamente efectiva. El diseño de GRACION permite su uso en diferentes áreas.

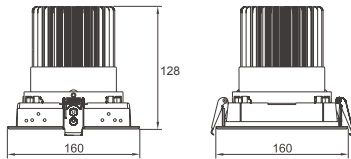


Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R01 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R01 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R01 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R01 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External
R01 42W TRUE COLOR	42W	42W	WW:3000K NW:4000K	WW:4350 NW:4700	90	90 90	104 101	15°/24° 36°/45°	36V	1050mA	0.95	External
R01 42W RICH COLOR	42W	42W	WW:3000K	WW:3800	97	96	101	15°/24° 36°/45°	36V	1050mA	0.95	External
R01-FM 42W	42W	42W	FRESH MEAT COLOR	2600	—	—	—	15°/24° 36°/45°	36V	1050mA	0.95	External
R01-FT 42W	42W	42W	FRUIT AND VEGETABLE COLOR	4500	—	—	—	15°/24° 36°/45°	36V	1050mA	0.95	External
R01-B 42W	42W	42W	BAKERY COLOR	2850	—	—	—	15°/24° 36°/45°	36V	1050mA	0.95	External

For custom order, the following Power will be available : 50W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



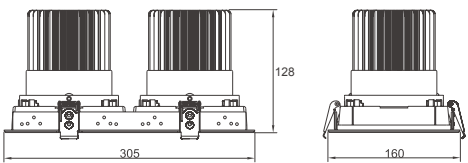
R85 150x150

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R85 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R85 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R85 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R85 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External

For custom order, the following Power will be available : 42W,50W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



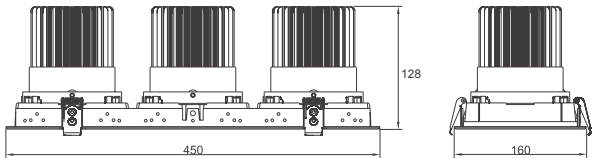
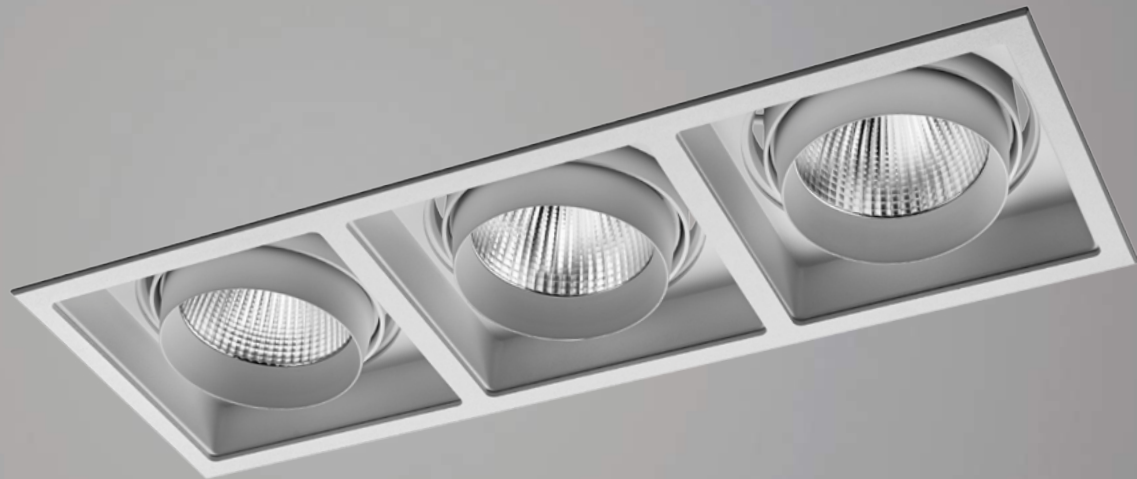
R86 295x150

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R86 2x28W TRUE COLOR	2x28W	56W	WW:3000K NW:4000K	WW:5800 NW:6300	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R86 2x28W RICH COLOR	2x28W	56W	WW:3000K	WW:5000	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R86 2x36W TRUE COLOR	2x36W	72W	WW:3000K NW:4000K	WW:7400 NW:8100	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R86 2x36W RICH COLOR	2x36W	72W	WW:3000K	WW:6500	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External

For custom order, the following Power will be available : 2x42W,2x50W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



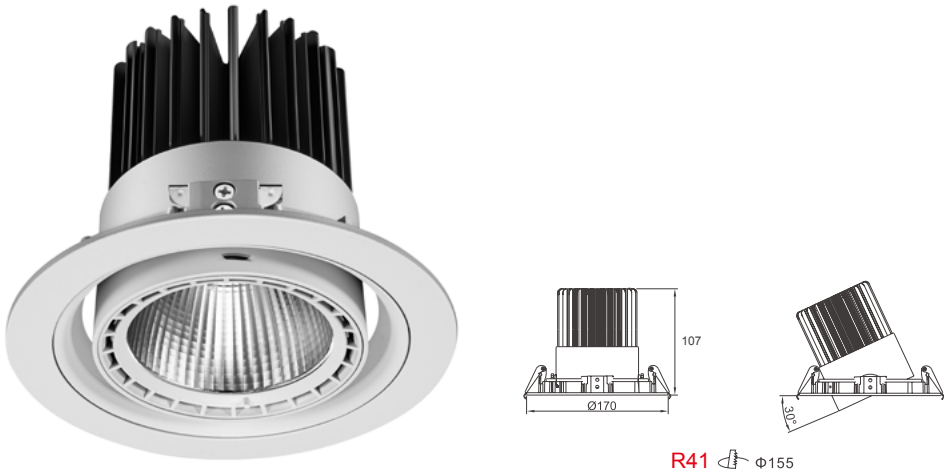
R87 440x150

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R87 3x28W TRUE COLOR	3x28W	84W	WW:3000K NW:4000K	WW:8700 NW:9450	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R87 3x28W RICH COLOR	3x28W	84W	WW:3000K	WW:7500	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R87 3x36W TRUE COLOR	3x36W	108W	WW:3000K NW:4000K	WW:11100 NW:12150	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R87 3x36W RICH COLOR	3x36W	108W	WW:3000K	WW:9750	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External

For custom order, the following Power will be available : 3x42W,3x50W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K

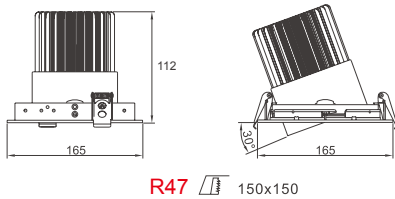


Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R41 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R41 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R41 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R41 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External
R41 42W TRUE COLOR	42W	42W	WW:3000K NW:4000K	WW:4350 NW:4700	90	90 90	104 101	15°/24° 36°/45°	36V	1050mA	0.95	External
R41 42W RICH COLOR	42W	42W	WW:3000K	WW:3800	97	96	101	15°/24° 36°/45°	36V	1050mA	0.95	External

For custom order, the following Power will be available : 50W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



R47 150x150

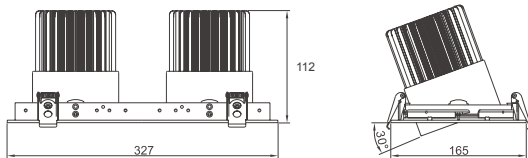


Input Voltage : 220-240V~ 50/60Hz

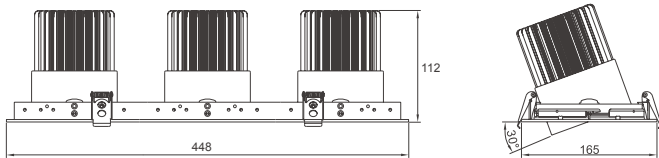


Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R47 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R47 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R47 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R47 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External

For custom order, the following Power will be available : 42W,50W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



R48 305x150



R49 468x150

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R48 2x28W TRUE COLOR	2x28W	56W	WW:3000K NW:4000K	WW:5800 NW:6300	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R48 2x28W RICH COLOR	2x28W	56W	WW:3000K	WW:5000	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R48 2x36W TRUE COLOR	2x36W	72W	WW:3000K NW:4000K	WW:7400 NW:8100	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R48 2x36W RICH COLOR	2x36W	72W	WW:3000K	WW:6500	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External

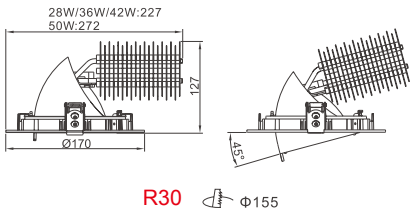
For custom order, the following Power will be available : 2x42W,2x50W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R49 3x28W TRUE COLOR	3x28W	84W	WW:3000K NW:4000K	WW:8700 NW:9450	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R49 3x28W RICH COLOR	3x28W	84W	WW:3000K	WW:7500	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R49 3x36W TRUE COLOR	3x36W	108W	WW:3000K NW:4000K	WW:11100 NW:12150	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R49 3x36W RICH COLOR	3x36W	108W	WW:3000K	WW:9750	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External

For custom order, the following Power will be available : 3x42W,3x50W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



R30  Φ 155

Input Voltage: 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R30 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R30 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R30 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R30 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External
R30 42W TRUE COLOR	42W	42W	WW:3000K NW:4000K	WW:4350 NW:4700	90	90 90	104 101	15°/24° 36°/45°	36V	1050mA	0.95	External
R30 42W RICH COLOR	42W	42W	WW:3000K	WW:3800	97	96	101	15°/24° 36°/45°	36V	1050mA	0.95	External
R30-FM 42W	42W	42W	FRESH MEAT COLOR	2600	—	—	—	15°/24° 36°/45°	36V	1050mA	0.95	External
R30-FT 42W	42W	42W	FRUIT AND VEGETABLE COLOR	4500	—	—	—	15°/24° 36°/45°	36V	1050mA	0.95	External
R30-B 42W	42W	42W	BAKERY COLOR	2850	—	—	—	15°/24° 36°/45°	36V	1050mA	0.95	External
R30 50W TRUE COLOR	50W	50W	WW:3000K NW:4000K	WW:5000 NW:5400	90	90 90	104 101	15°/24° 36°/45°	36V	1200mA	0.95	External

For custom order, the following Power will be available : 56W

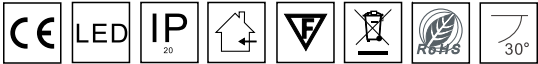
For custom order, the following CCT will be available :

TRUE COLOR CRI90 : 2700K,3500K

RICH COLOR CRI97 : 4000K

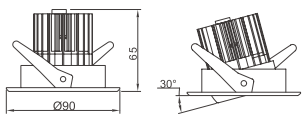


Input Voltage : 220-240V~ 50/60Hz



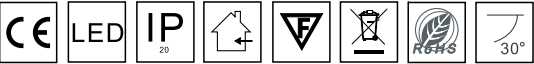
Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R10 6W	6W	6W	WW:3000K NW:4000K	WW:750 NW:800	80	82 82	98 97	24°/36°	36V	150mA	0.80	External
R10 8W	8W	8W	WW:3000K NW:4000K	WW:950 NW:1050	80	82 82	98 97	24°/36°	36V	200mA	0.80	External

For custom order, the following CCT will be available : 2700K,3500K,5000K



R50  $\Phi 75$

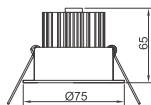
Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R50 6W	6W	6W	WW:3000K NW:4000K	WW:750 NW:800	80	82 82	98 97	24°/36°	36V	150mA	0.80	External
R50 8W	8W	8W	WW:3000K NW:4000K	WW:950 NW:1050	80	82 82	98 97	24°/36°	36V	200mA	0.80	External

For custom order, the following CCT will be available : 2700K,3500K,5000K





R11  Ø62

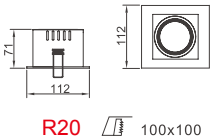
Input Voltage : 220-240V~ 50/60Hz



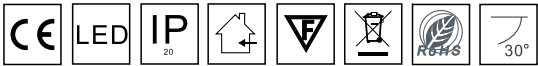
Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R11 6W	6W	6W	WW:3000K NW:4000K	WW:750 NW:800	80	82 82	98 97	24°/36°	36V	150mA	0.80	External
R11 8W	8W	8W	WW:3000K NW:4000K	WW:950 NW:1050	80	82 82	98 97	24°/36°	36V	200mA	0.80	External

For custom order, the following CCT will be available : 2700K,3500K,5000K



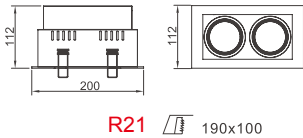


Input Voltage : 220-240V~ 50/60Hz

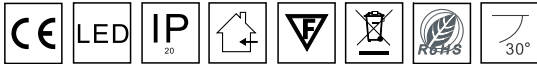


Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R20 6W	6W	6W	WW:3000K NW:4000K	WW:750 NW:800	80	82 82	98 97	24°/36°	36V	150mA	0.80	External
R20 8W	8W	8W	WW:3000K NW:4000K	WW:950 NW:1050	80	82 82	98 97	24°/36°	36V	200mA	0.80	External

For custom order, the following CCT will be available : 2700K,3500K,5000K

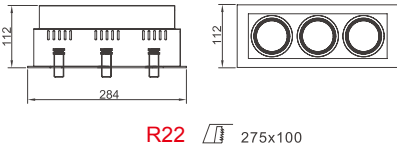


Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R21 2x6W	2x6W	12W	WW:3000K NW:4000K	WW:1500 NW:1600	80	82 82	98 97	24°/36°	36V	300mA	0.90	Built in
R21 2x8W	2x8W	16W	WW:3000K NW:4000K	WW:1900 NW:2100	80	82 82	98 97	24°/36°	36V	400mA	0.90	Built in

For custom order, the following CCT will be available : 2700K,3500K,5000K

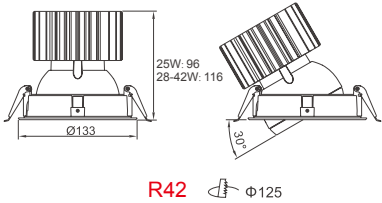


Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R22 3x6W	3x6W	18W	WW:3000K NW:4000K	WW:2250 NW:2400	80	82 82	98 97	24°/36°	36V	450mA	0.90	Built in
R22 3x8W	3x8W	24W	WW:3000K NW:4000K	WW:2850 NW:3150	80	82 82	98 97	24°/36°	36V	600mA	0.90	Built in

For custom order, the following CCT will be available : 2700K,3500K,5000K



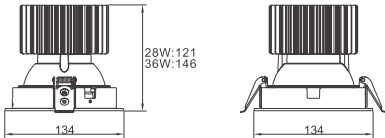
Led Recessed Light GRACION LIGHTING

Input Voltage : 220-240V~ 50/60Hz

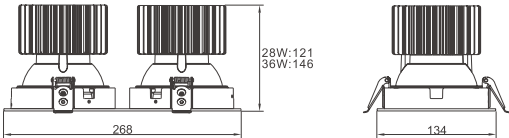


Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R42 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R42 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R42 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R42 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External

For custom order, the following Power will be available : 42W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



R52  Φ 125



R53  255x125

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R52 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R52 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R52 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R52 36W RICH COLOR	36W	36W	WW:3000K	WW:3700	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External
R52-FM 36W	36W	36W	FRESH MEAT COLOR	2200	—	—	—	15°/24° 36°/45°	36V	900mA	0.95	External
R52-FT 36W	36W	36W	FRUIT AND VEGETABLE COLOR	3900	—	—	—	15°/24° 36°/45°	36V	900mA	0.95	External
R52-B 36W	36W	36W	BAKERY COLOR	2300	—	—	—	15°/24° 36°/45°	36V	900mA	0.95	External

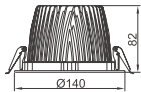
For custom order, the following Power will be available : 42W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R53 2x28W TRUE COLOR	2x28W	56W	WW:3000K NW:4000K	WW:5800 NW:6300	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R53 2x28W RICH COLOR	2x28W	56W	WW:3000K	WW:5000	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R53 2x36W TRUE COLOR	2x36W	72W	WW:3000K NW:4000K	WW:7400 NW:8100	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R53 2x36W RICH COLOR	2x36W	72W	WW:3000K	WW:6500	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External
R53-FM 2x36W	2x36W	72W	FRESH MEAT COLOR	4400	—	—	—	15°/24° 36°/45°	36V	900mA	0.95	External
R53-FT 2x36W	2x36W	72W	FRUIT AND VEGETABLE COLOR	7800	—	—	—	15°/24° 36°/45°	36V	900mA	0.95	External
R53-B 2x36W	2x36W	72W	BAKERY COLOR	4600	—	—	—	15°/24° 36°/45°	36V	900mA	0.95	External

For custom order, the following Power will be available : 2x42W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



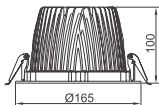
R32  Ø125

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R32 8W	8W	8W	WW:3000K NW:4000K	WW:900 NW:1000	80	—	—	65°	18.5V	350mA	0.80	External
R32 10W	10W	10W	WW:3000K NW:4000K	WW:1100 NW:1150	80	—	—	65°	21.5V	350mA	0.80	External

For custom order, the following CCT will be available : 2700K,3500K,5000K



R33  Ø150

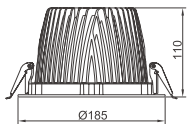
Input Voltage: 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R33 10W	10W	10W	WW:3000K NW:4000K	WW:1100 NW:1150	80	—	—	65°	21.5V	350mA	0.80	External
R33 14W	14W	14W	WW:3000K NW:4000K	WW:1600 NW:1800	80	—	—	65°	33.5V	350mA	0.90	External

For custom order, the following CCT will be available : 2700K,3500K,5000K





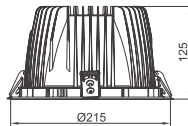
R34  $\Phi 175$

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R34 14W	14W	14W	WW:3000K NW:4000K	WW:1800 NW:1800	80	—	—	65°	33.5V	350mA	0.90	External
R34 20W	20W	20W	WW:3000K NW:4000K	WW:2400 NW:2500	80	—	—	65°	24V	700mA	0.90	External

For custom order, the following Power will be available : 30W
For custom order, the following CCT will be available : 2700K,3500K,5000K



R35  $\Phi 205$

Input Voltage : 220-240V~ 50/60Hz

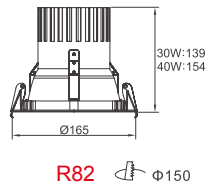


Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R35 26W	26W	26W	WW:3000K NW:4000K	WW:3200 NW:3500	80	—	—	65°	33V	700mA	0.95	External
R35 40W	40W	40W	WW:3000K NW:4000K	WW:4900 NW:5300	80	—	—	65°	38V	900mA	0.95	External

For custom order, the following Power will be available : 45W
For custom order, the following CCT will be available : 2700K,3500K,5000K



Led Recessed Light GRACION LIGHTING

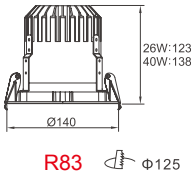


Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R82 30W	30W	30W	WW:3000K NW:4000K	WW:3800 NW:4100	80	—	—	65°	39V	700mA	0.95	External
R82 40W	40W	40W	WW:3000K NW:4000K	WW:4900 NW:5300	80	—	—	65°	39V	900mA	0.95	External

For custom order, the following Power will be available : 26W,45W
For custom order, the following CCT will be available : 2700K,3500K,5000K



Input Voltage: 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R83 26W	26W	26W	WW:3000K NW:4000K	WW:3200 NW:3500	80	—	—	65°	33V	700mA	0.95	External
R83 40W	40W	40W	WW:3000K NW:4000K	WW:4900 NW:5300	80	—	—	65°	39V	900mA	0.95	External

For custom order, the following Power will be available : 30W,45W
For custom order, the following CCT will be available : 2700K,3500K,5000K

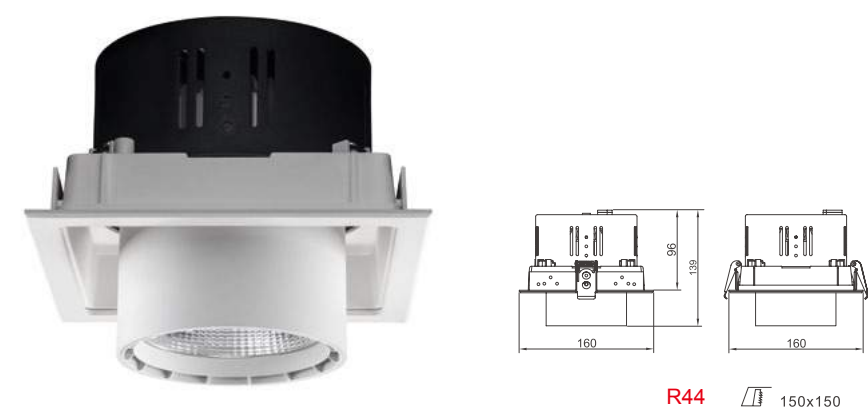


Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R56 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R56 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R56 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R56 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External
R56-FM 36W	36W	36W	FRESH MEAT COLOR	2200	—	—	—	15°/24° 36°/45°	36V	900mA	0.95	External
R56-FT 36W	36W	36W	FRUIT AND VEGETABLE COLOR	3900	—	—	—	15°/24° 36°/45°	36V	900mA	0.95	External
R56-B 36W	36W	36W	BAKERY COLOR	2300	—	—	—	15°/24° 36°/45°	36V	900mA	0.95	External

For custom order, the following Power will be available : 42W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K

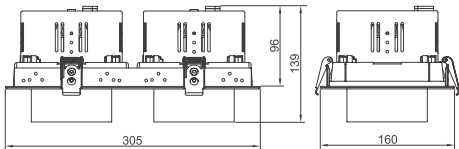


Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R44 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R44 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R44 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R44 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External
R44-FM 36W	36W	36W	FRESH MEAT COLOR	2200	—	—	—	15°/24° 36°/45°	36V	900mA	0.95	External
R44-FT 36W	36W	36W	FRUIT AND VEGETABLE COLOR	3900	—	—	—	15°/24° 36°/45°	36V	900mA	0.95	External
R44-B 36W	36W	36W	BAKERY COLOR	2300	—	—	—	15°/24° 36°/45°	36V	900mA	0.95	External

For custom order, the following Power will be available : 42W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



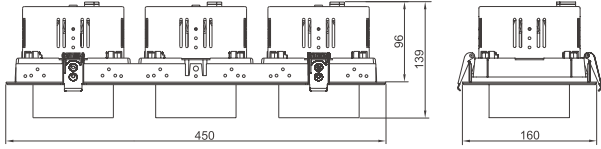
R45 295x150

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R45 2x28W TRUE COLOR	2x28W	56W	WW:3000K NW:4000K	WW:5800 NW:6300	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R45 2x28W RICH COLOR	2x28W	56W	WW:3000K	WW:5000	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R45 2x36W TRUE COLOR	2x36W	72W	WW:3000K NW:4000K	WW:7400 NW:8100	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R45 2x36W RICH COLOR	2x36W	72W	WW:3000K	WW:6500	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External

For custom order, the following Power will be available : 2x42W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



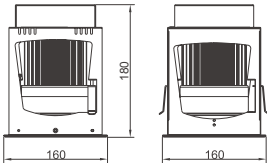
R46 440x150

Input Voltage : 220-240V~ 50/60Hz



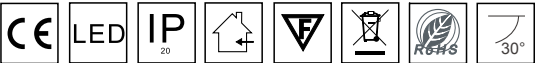
Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R46 3x28W TRUE COLOR	3x28W	84W	WW:3000K NW:4000K	WW:8700 NW:9450	90	90 90	104 101	15°/24° 36°/45°	36V	700mA	0.95	External
R46 3x28W RICH COLOR	3x28W	84W	WW:3000K	WW:7500	97	96	101	15°/24° 36°/45°	36V	700mA	0.95	External
R46 3x36W TRUE COLOR	3x36W	108W	WW:3000K NW:4000K	WW:11100 NW:12150	90	90 90	104 101	15°/24° 36°/45°	36V	900mA	0.95	External
R46 3x36W RICH COLOR	3x36W	108W	WW:3000K	WW:9750	97	96	101	15°/24° 36°/45°	36V	900mA	0.95	External

For custom order, the following Power will be available : 3x42W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



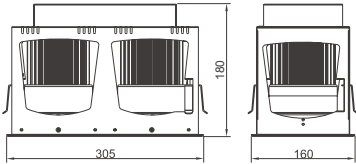
R70 150x150

Input Voltage : 220-240V~ 50/60Hz



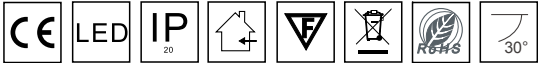
Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R70 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	14°/24°/36°	36V	700mA	0.95	Built in
R70 28W RICH COLOR	28W	28W	WW:3000K	WW:2500	97	96	101	14°/24°/36°	36V	700mA	0.95	Built in
R70 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	14°/24°/36°	36V	900mA	0.95	Built in
R70 36W RICH COLOR	36W	36W	WW:3000K	WW:3250	97	96	101	14°/24°/36°	36V	900mA	0.95	Built in

For custom order, the following Power will be available : 42W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



R71 295x150

Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
R71 2x28W TRUE COLOR	2x28W	56W	WW:3000K NW:4000K	WW:5800 NW:6300	90	90 90	104 101	14°/24°/36°	36V	700mA	0.95	Built in
R71 2x28W RICH COLOR	2x28W	56W	WW:3000K	WW:5000	97	96	101	14°/24°/36°	36V	700mA	0.95	Built in
R71 2x36W TRUE COLOR	2x36W	72W	WW:3000K NW:4000K	WW:7400 NW:8100	90	90 90	104 101	14°/24°/36°	36V	900mA	0.95	Built in
R71 2x36W RICH COLOR	2x36W	72W	WW:3000K	WW:6500	97	96	101	14°/24°/36°	36V	900mA	0.95	Built in

For custom order, the following Power will be available : 2x42W
For custom order, the following CCT will be available :
TRUE COLOR CRI90 : 2700K,3500K
RICH COLOR CRI97 : 4000K



Surface mounted & Pendant

EN

The perfect design and the innovative techniques of GRACION appear also in our pendant lamps. GRACION pendant lamps have been developed and manufactured functional and are following the most modern technologies - like all GRACION products. GRACION pendant lamps can be mounted directly to the ceiling or via tracksystems, very flexible, very GRACION.

DE

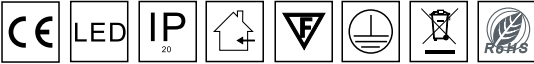
Perfekt und Gestaltung, Innovation und Design zeichnen GRACION Pendelleuchten aus. GRACION Pendelleuchten sind funktionell und nach neuestem Entwicklungsstand entwickelt und gefertigt worden. Wie alle GRACION Produkte. GRACION Pendelleuchten können direkt an der Decke oder über Stromschienen befestigt werden, eben vielseitig, eben GRACION.

ES

Las lámparas colgantes de GRACION ofrecen un diseño perfecto, innovador y moderno. Han sido desarrolladas y fabricadas teniendo en cuenta la funcionalidad y finalidad, como todos los productos de GRACION. Las lámparas colgantes se pueden montar directamente en el techo o en carril trifásico Global.



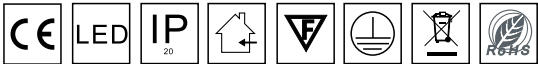
Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
C04 28W	28W	28W	WW:3000K NW:4000K	WW:3400 NW:3650	80	82 82	98 97	55°	36V	700mA	0.95	Built in
C04 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	55°	36V	700mA	0.95	Built in
C04 36W	36W	36W	WW:3000K NW:4000K	WW:4400 NW:4700	80	82 82	98 97	55°	36V	900mA	0.95	Built in
C04 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	55°	36V	900mA	0.95	Built in
C04 42W	42W	42W	WW:3000K NW:4000K	WW:5100 NW:5500	80	82 82	98 97	55°	36V	1050mA	0.95	Built in
C04 42W TRUE COLOR	42W	42W	WW:3000K NW:4000K	WW:4350 NW:4700	90	90 90	104 101	55°	36V	1050mA	0.95	Built in
C04-FM 42W	42W	42W	FRESH MEAT COLOR	2600	—	—	—	55°	36V	1050mA	0.95	Built in
C04-FT 42W	42W	42W	FRUIT AND VEGETABLE COLOR	4500	—	—	—	55°	36V	1050mA	0.95	Built in
C04-B 42W	42W	42W	BAKERY COLOR	2850	—	—	—	55°	36V	1050mA	0.95	Built in

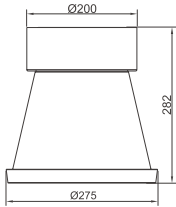
For custom order, the following Power will be available : 50W
For custom order, the following CCT will be available : 5000K

Input Voltage : 220-240V~ 50/60Hz



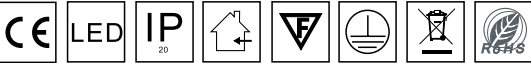
Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
P07 28W	28W	28W	WW:3000K NW:4000K	WW:3400 NW:3650	80	82 82	98 97	55°	36V	700mA	0.95	Built in
P07 28W TRUE COLOR	28W	28W	WW:3000K NW:4000K	WW:2900 NW:3150	90	90 90	104 101	55°	36V	700mA	0.95	Built in
P07 36W	36W	36W	WW:3000K NW:4000K	WW:4400 NW:4700	80	82 82	98 97	55°	36V	900mA	0.95	Built in
P07 36W TRUE COLOR	36W	36W	WW:3000K NW:4000K	WW:3700 NW:4050	90	90 90	104 101	55°	36V	900mA	0.95	Built in
P07 42W	42W	42W	WW:3000K NW:4000K	WW:5100 NW:5500	80	82 82	98 97	55°	36V	1050mA	0.95	Built in
P07 42W TRUE COLOR	42W	42W	WW:3000K NW:4000K	WW:4350 NW:4700	90	90 90	104 101	55°	36V	1050mA	0.95	Built in
P07-FM 42W	42W	42W	FRESH MEAT COLOR	2600	—	—	—	55°	36V	1050mA	0.95	Built in
P07-FT 42W	42W	42W	FRUIT AND VEGETABLE COLOR	4500	—	—	—	55°	36V	1050mA	0.95	Built in
P07-B 42W	42W	42W	BAKERY COLOR	2850	—	—	—	55°	36V	1050mA	0.95	Built in

For custom order, the following Power will be available : 50W
For custom order, the following CCT will be available : 5000K



P03

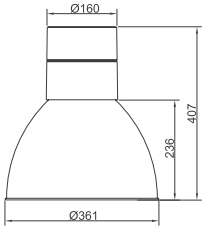
Input Voltage : 220-240V~ 50/60Hz



Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
P03 42W TRUE COLOR	42W	42W	WW:3000K NW:4000K	WW:4350 NW:4700	90	90 90	104 101	55°	36V	1050mA	0.95	Built in
P03 56W TRUE COLOR	56W	56W	WW:3000K NW:4000K	WW:5800 NW:6250	90	90 90	104 101	55°	36V	1400mA	0.95	Built in
P03-FM 42W	42W	42W	FRESH MEAT COLOR	2600	—	—	—	60°	36V	1050mA	0.95	Built in
P03-FT 42W	42W	42W	FRUIT AND VEGETABLE COLOR	4500	—	—	—	60°	36V	1050mA	0.95	Built in
P03-B 42W	42W	42W	BAKERY COLOR	2850	—	—	—	60°	36V	1050mA	0.95	Built in
P03-FM 56W	56W	56W	FRESH MEAT COLOR	3300	—	—	—	60°	36V	1400mA	0.95	Built in
P03-FT 56W	56W	56W	FRUIT AND VEGETABLE COLOR	6050	—	—	—	60°	36V	1400mA	0.95	Built in
P03-B 56W	56W	56W	BAKERY COLOR	3680	—	—	—	60°	36V	1400mA	0.95	Built in

For custom order, the following Power will be available : 50W
For custom order, the following CCT will be available : 5000K





P05

Input Voltage : 220-240V~ 50/60Hz

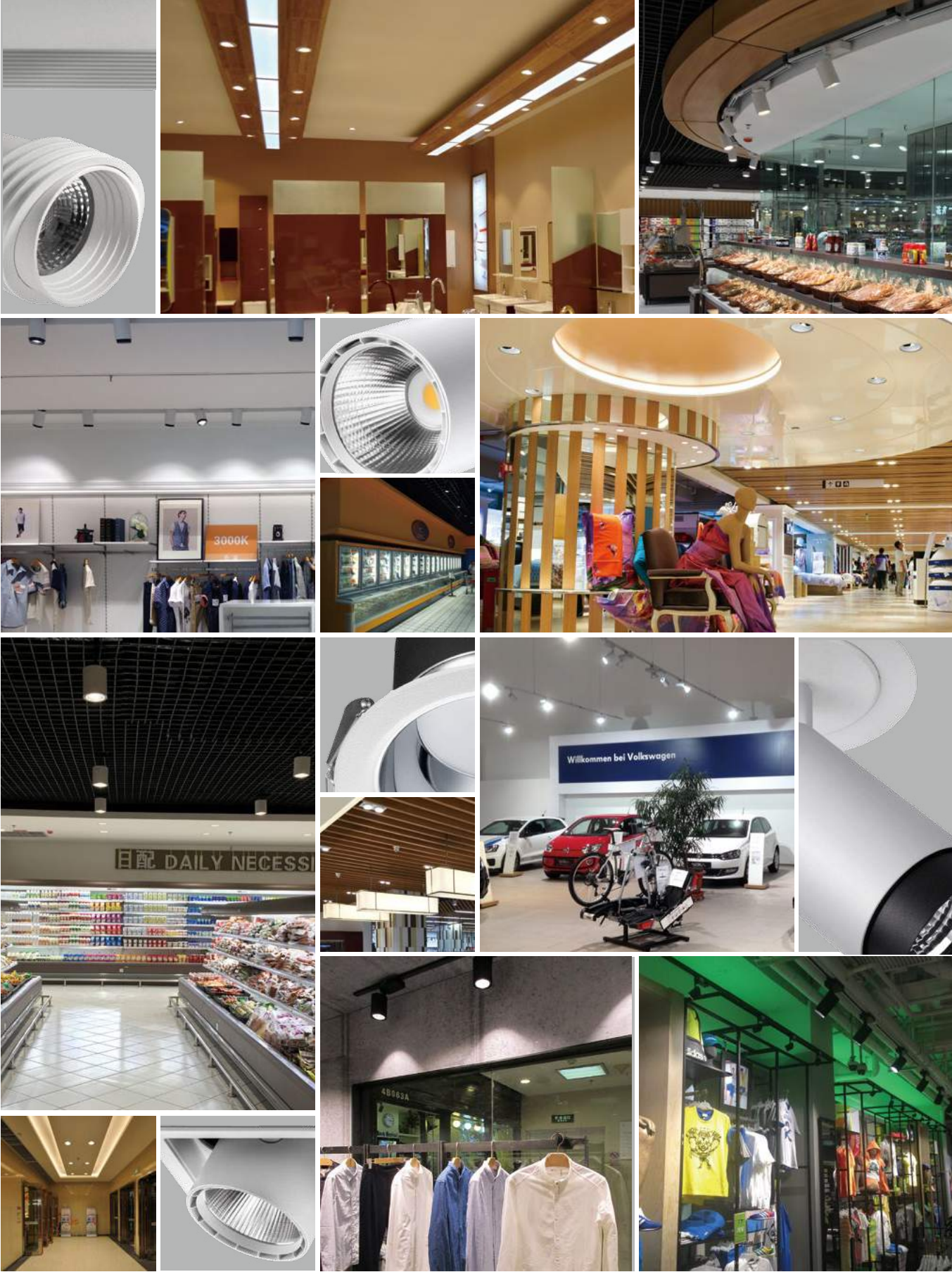


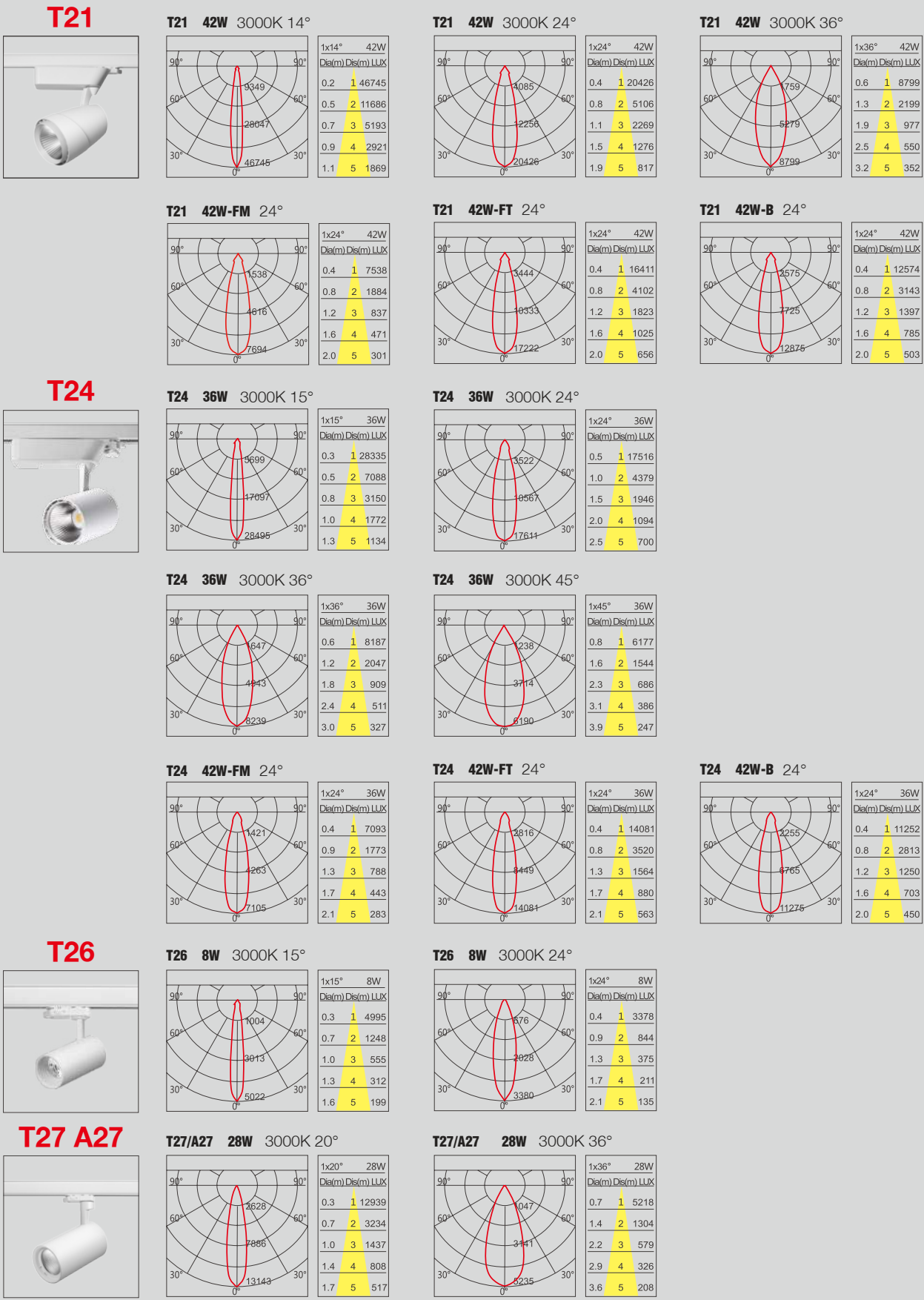
Part No.	LED Wattage	System Power Consumption	CCT	Lumen	CRI	R _f	R _g	Beam Angle	Operation Voltage	Operation Current	Power Factor	LED Driver Type
P05 42W	42W	42W	NW:4000K CW:5000K	NW:5500 CW:5500	80	82 ---	97 ---	24°	36V	1050mA	0.95	Built in
P05-FM 42W	42W	42W	FRESH MEAT COLOR	2600	—	—	—	24°	36V	1050mA	0.95	Built in
P05-FT 42W	42W	42W	FRUIT AND VEGETABLE COLOR	4500	—	—	—	24°	36V	1050mA	0.95	Built in
P05-B 42W	42W	42W	BAKERY COLOR	2850	—	—	—	24°	36V	1050mA	0.95	Built in

For custom order, the following Power will be available : 50W
For custom order, the following CCT will be available :
CRI80 : 3000K
TRUE COLOR CRI90 : 3000K,4000K

LIGHT
PROJECT
FOR
OUR CLIENT
→



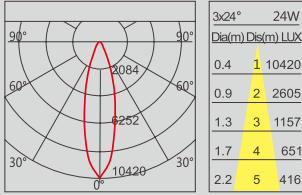




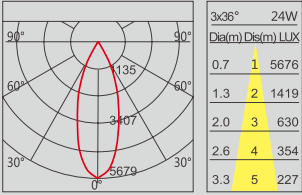
R22



R22 3x8W 4000K 24°



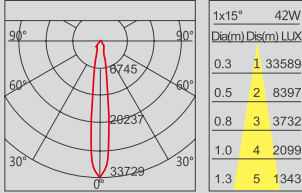
R22 3x8W 4000K 36°



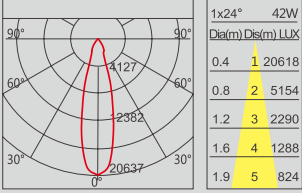
R30



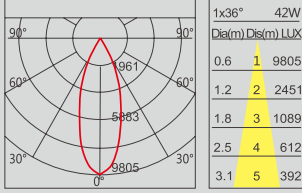
R30 42W 4000K 15°



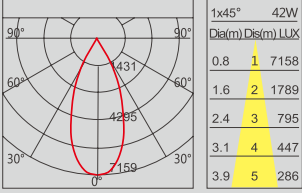
R30 42W 4000K 24°



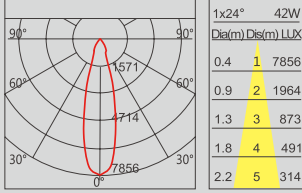
R30 42W 4000K 36°



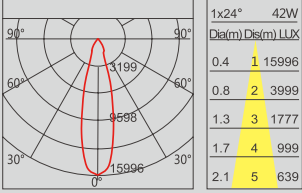
R30 42W 4000K 45°



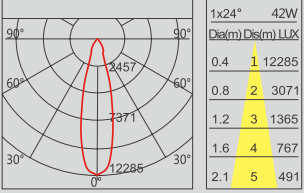
R30 42W-FM 24°



R30 42W-FT 24°



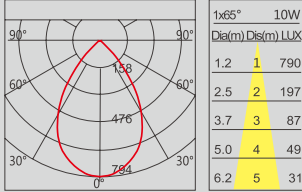
R30 42W-B 24°



R32



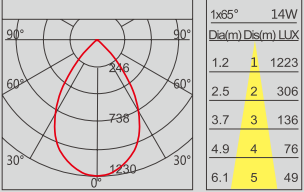
R32 10W 4000K 65°



R33



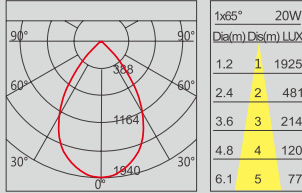
R33 14W 4000K 65°



R34



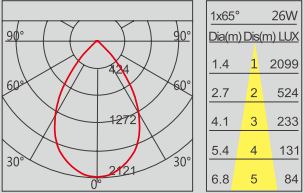
R34 20W 4000K 65°



R35



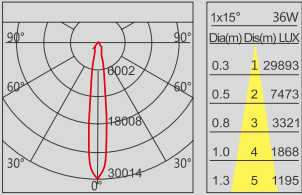
R35 26W 4000K 65°



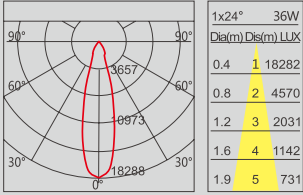
R41



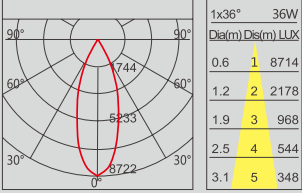
R41 36W 4000K 15°



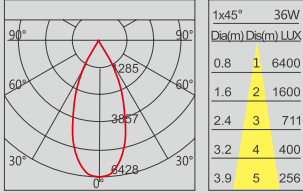
R41 36W 4000K 24°



R41 36W 4000K 36°



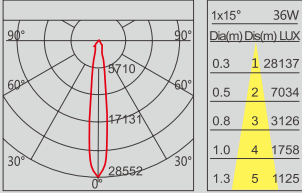
R41 36W 4000K 45°



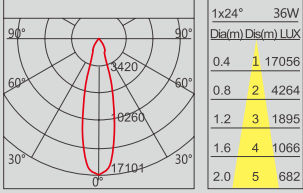
R42



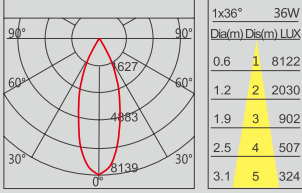
R42 36W 4000K 15°



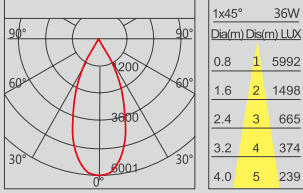
R42 36W 4000K 24°



R42 36W 4000K 36°



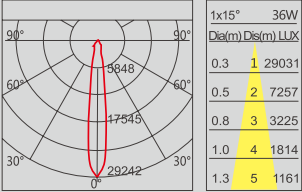
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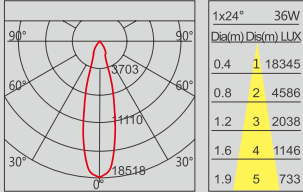
R44



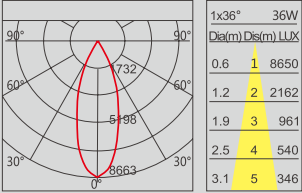
R44 36W 4000K 15°



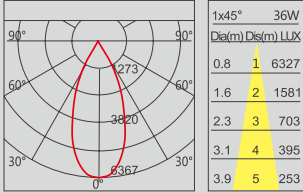
R44 36W 4000K 24°



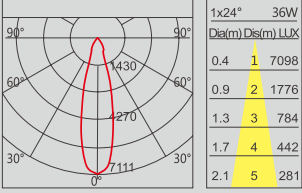
R44 36W 4000K 36°



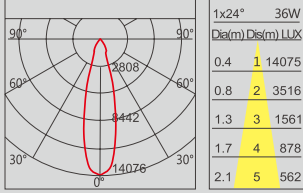
R44 36W 4000K 45°



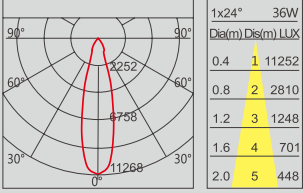
R44 36W-FM 24°



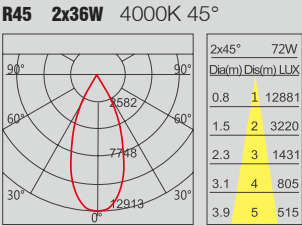
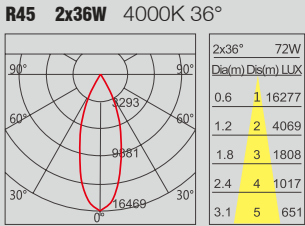
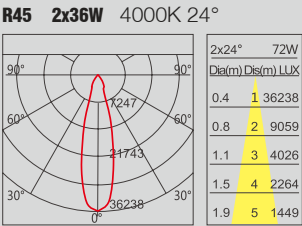
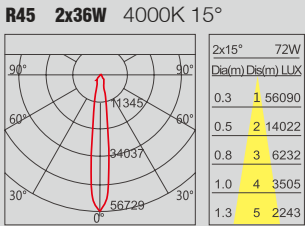
R44 36W-FT 24°



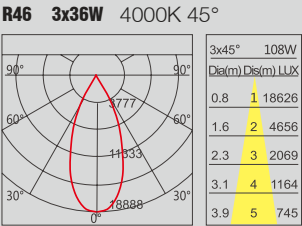
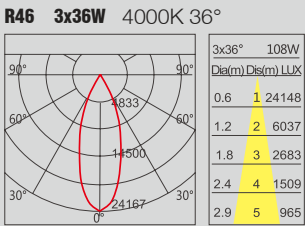
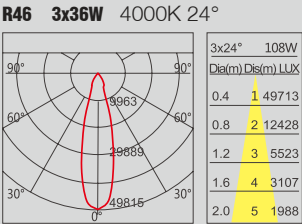
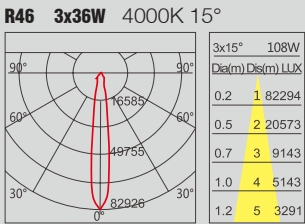
R44 36W-B 24°



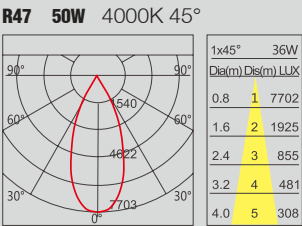
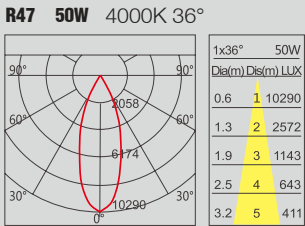
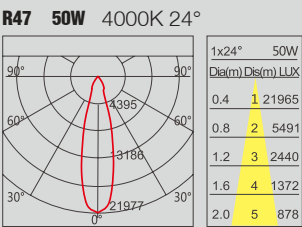
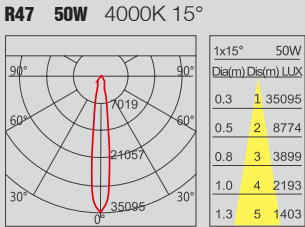
R45



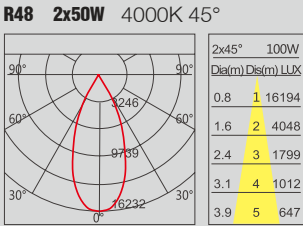
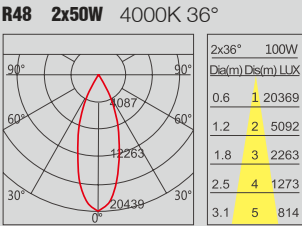
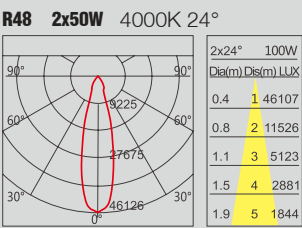
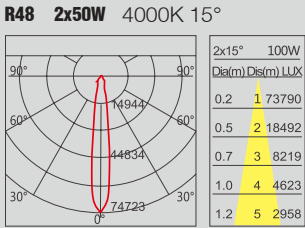
R46



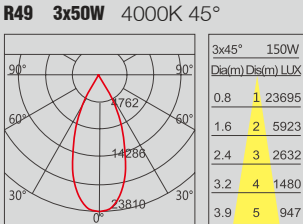
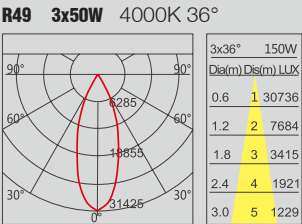
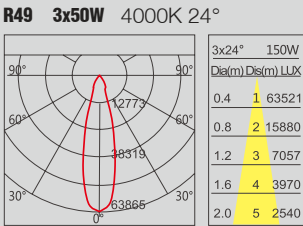
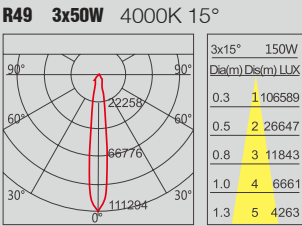
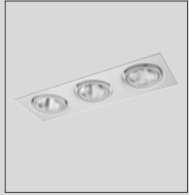
R47



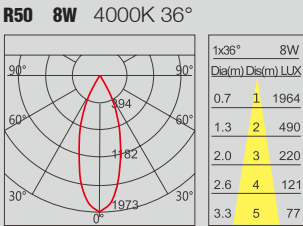
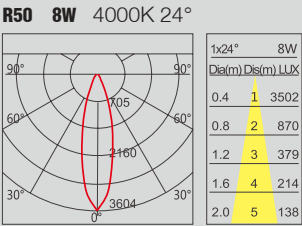
R48



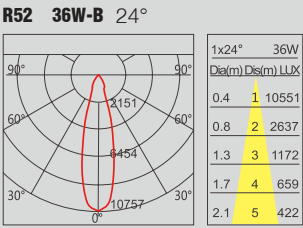
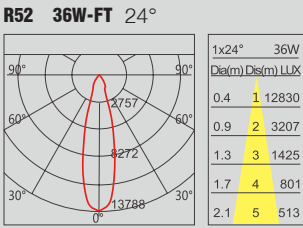
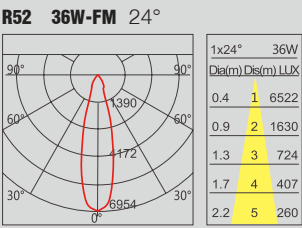
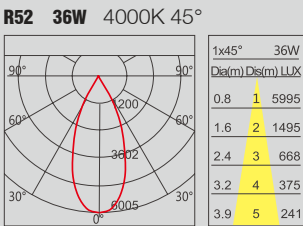
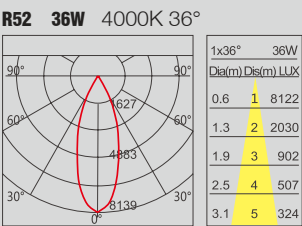
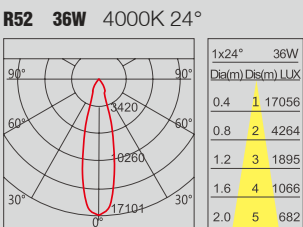
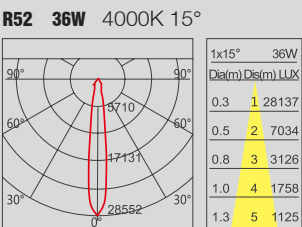
R49



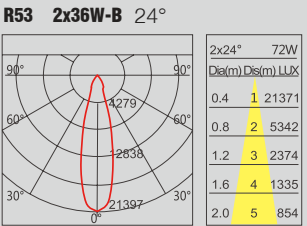
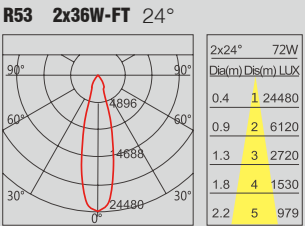
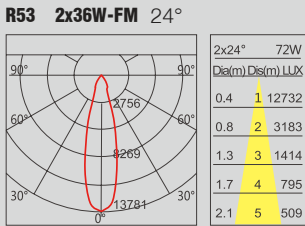
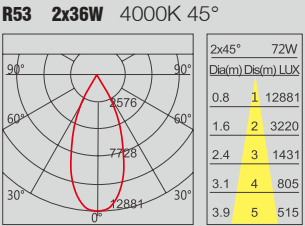
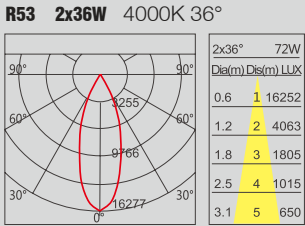
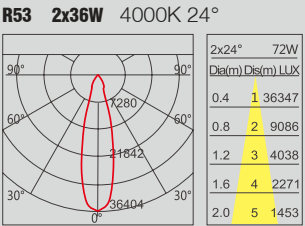
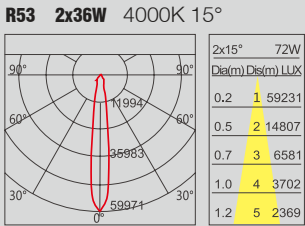
R50



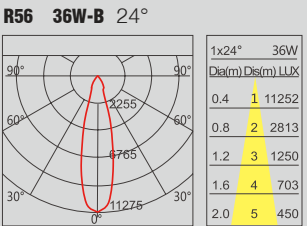
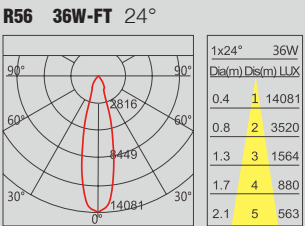
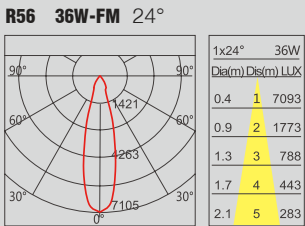
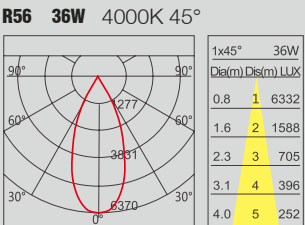
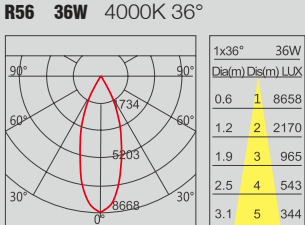
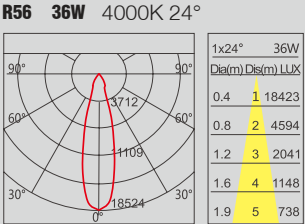
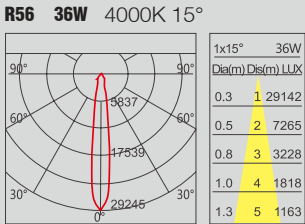
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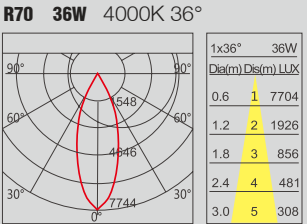
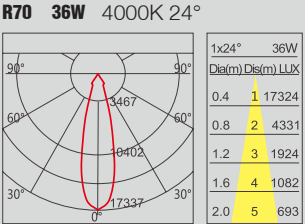
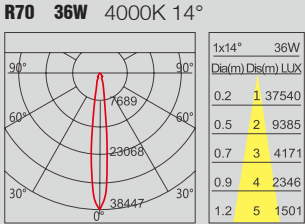
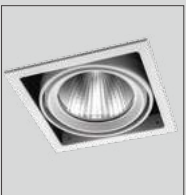
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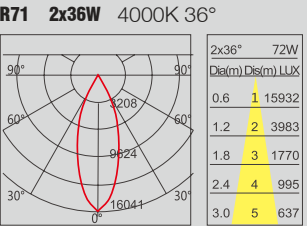
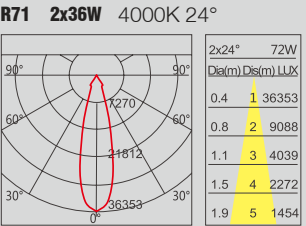
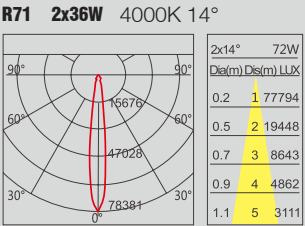
R56



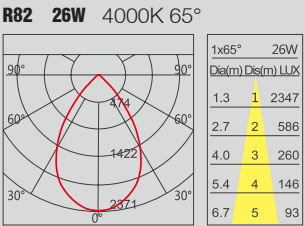
R70



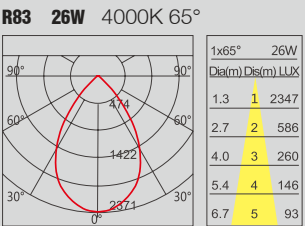
R71



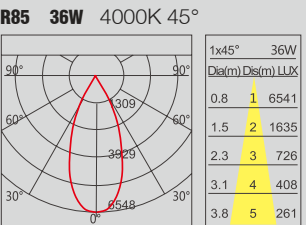
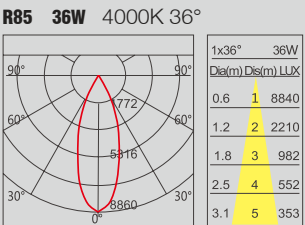
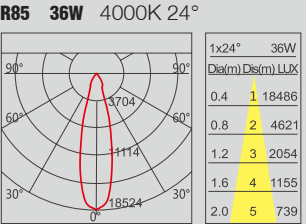
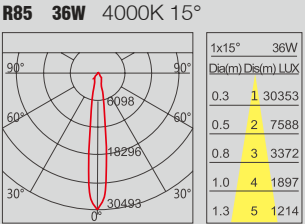
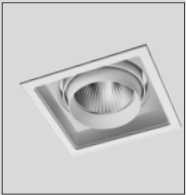
R82



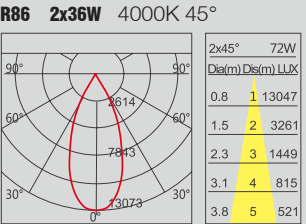
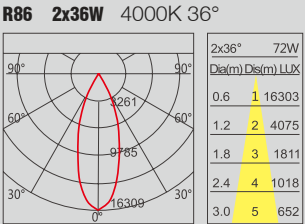
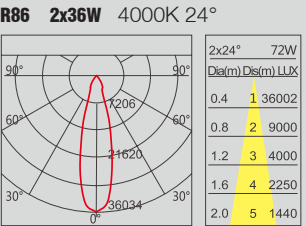
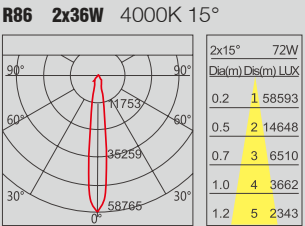
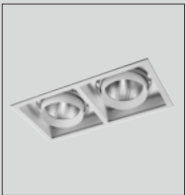
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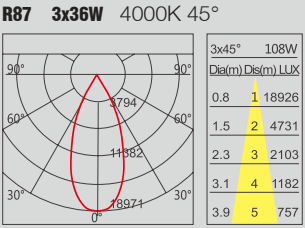
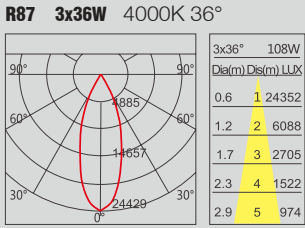
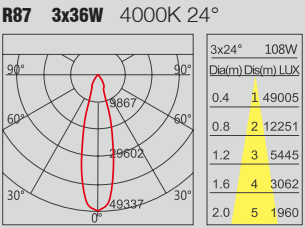
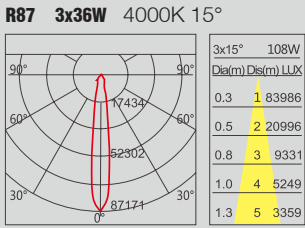
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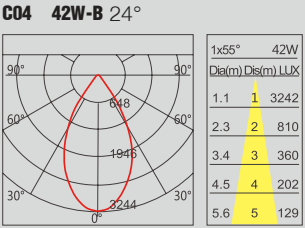
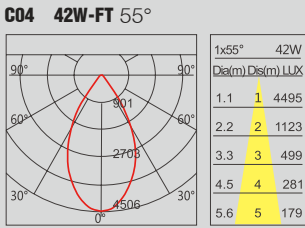
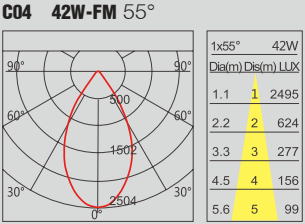
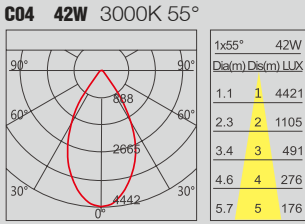
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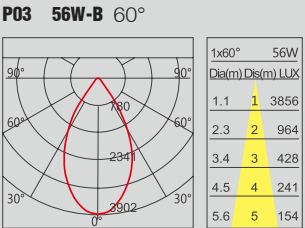
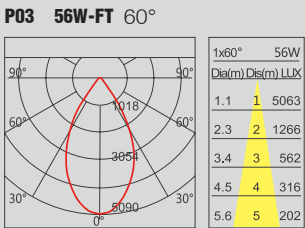
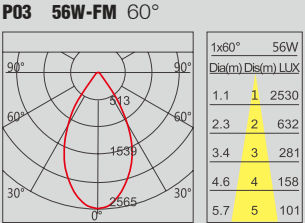
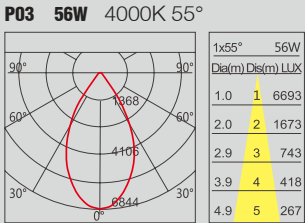
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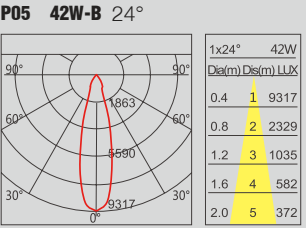
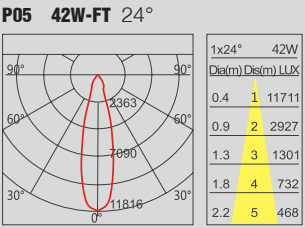
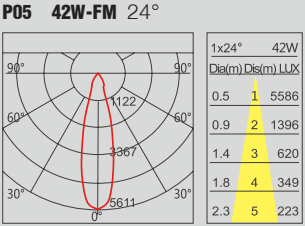
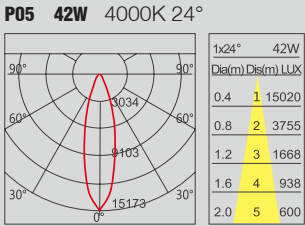
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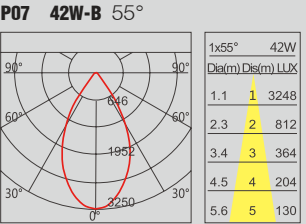
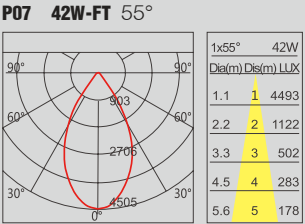
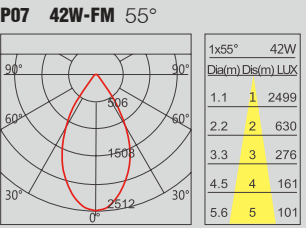
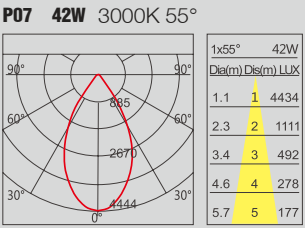
P03



P05



P07



COLOR TEMPERATURE



EN

SCENES	COLOUR TEMPERATURE	SZENEN	COLOUR TEMPERATURE
Blue sky	12-20000K	Office	4000-5000K
Sun-summer light	6500K	Shopping area	3500-4000K
Sun-morning light and late afternon	4300K	Sports wear	3000-4000K
Sun-dawn and sunset	2000K	Formal Clothes	2700-3000K
Candle flame	1850-1900K	Hotel	2700-3000K

DE

SZENEN	COLOUR TEMPERATURE	SZENEN	COLOUR TEMPERATURE
Blauer Himmel	12-20000K	Büros	4000-5000K
Sonnenlicht im Sommer	6500K	Einkaufszonen	3500-4000K
Morgen- und späte Nachmittagssonne	4300K	Sportkleidung	3000-4000K
Sonnenaufgang und -untergang	2000K	Formelle Kleidung	2700-3000K
Kerzenflamme	1850-1900K	Hotel	2700-3000K

ES

ESCENAS	TEMPERATURA DE COLOR	ESCENAS	TEMPERATURA DE COLOR
Azul cielo	12-20000K	Oficina	4000-5000K
Sol – luz de verano	6500K	Área de compras	3500-4000K
Sol - luz de la mañana ya última hora de la tarde	4300K	Ropa de deporte	3000-4000K
Sol - al amanecer y al atardecer	2000K	Ropa formal	2700-3000K
Llama de vela	1850-1900K	Hotel	2700-3000K

RENDERING INDEX



EN

Ra = 90 - 100	Excellent colour rendering properties
Ra = 80 - 90	Good colour rendering properties
Ra = 60 - 80	Moderate colour rendering properties
Ra < 60	Poor colour rendering properties

PLACE OF APPLICATION	COLOR REDNERING INDEX
Museum	CRI ≥ 95
High fashion,jewelry	CRI ≥ 90
Fresh food	CRI ≥ 90
Greneral goods	CRI ≥ 80
Public space of shopping space	CRI ≥ 80
Wearhouse,parking area	CRI ≥ 70

DE

Ra = 100 - 90	Sehr gute Farbwiedergabeeigenschaften
Ra = 90 - 80	Gute Farbwiedergabeeigenschaften
Ra = 80 - 70	Mäßige Farbwiedergabeeigenschaften
Ra < 70	Geringwertige Farbwiedergabeeigenschaften

EINSATZORT	FARBWIEDERGABEINDEX
Museum	CRI ≥ 95
Haute-Couture-Mode, Juwelen	CRI ≥ 90
Frische Nahrungsmittel	CRI ≥ 90
Allgemeine Güter	CRI ≥ 80
Öffentliche Räume in Einkaufsräumen	CRI ≥ 80
Parkplätze	CRI ≥ 70

ES

Ra = 100 - 90	Excelentes propiedades de reproducción cromática
Ra = 90 - 80	Muy buenas propiedades de reproducción cromática
Ra = 80 - 70	Buenas propiedades de reproducción cromática
Ra < 70	Deficientes propiedades de reproducción cromática

DÓNDE APLICAR	ÍNDICE DE REPRODUCCIÓN CROMÁTICA
Museo	CRI ≥ 95
Alta costura, joyas	CRI ≥ 90
Alimentación fresca	CRI ≥ 90
Mercancía	CRI ≥ 80
Espacio público de área de compras	CRI ≥ 80
Zona de aparcamiento	CRI ≥ 70

COLOR RENDITION

EN

GRACION uses the IES TM 30 – 15 system.

In 2015, The North American IES (Illuminating Engineering Society) has introduced the TM-30-15 system - a new IES method, to evaluate the color rendering of a light source. This method is in accordance with the CIE 13.3 method and offers some optimization. The range of test colors has been expanded from 8 to 99, and the colors were chosen based on their natural occurrences.

The new "reference spectrum similarity index" called Fidelity Index (later R_f), describes in principle the same properties as the Ra index, used in the past, but is specialized for more test colors. The range of the value of the index is 0-100. Ra and the new R_f cannot be interchanged.

In addition to the evaluation of the light source by the Fidelity Index of the TM-30 method, the "gamut" is also taken into account. This new value is called the Gamut Index (later R_g).

The new TM-30 method cannot replace sampling, but is able to provide additional and more accurate information about the color rendering quality of a light source.

Since its appearance in 2015, GRACION operates accordingly to IES TM - 30 - 15.

DE

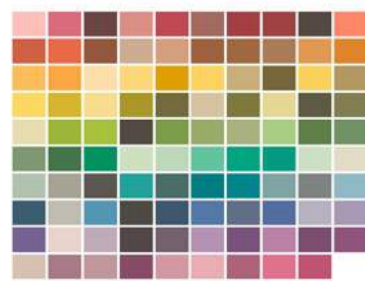
GRACION produziert nach IES TM- 30 – 15.

Die nordamerikanische IES (Illuminating Engineering Society) hat 2015 unter dem Namen TM-30-15 eine neue IES-Methode zur Bewertung der Farbwiedergabe von Lichtquellen vorgestellt. Hierzu hat man sich an der CIE 13.3-Methode orientiert, diese optimiert und die Palette der Testfarben von 8 auf 99 Farben ausgebaut.

Der neue »Referenz-Spektrums-Ähnlichkeits-Index« nennt sich Fidelity- Index, abgekürzt R_f, und beschreibt im Prinzip denselben Zusammenhang, wie der alte Ra, allerdings nun für mehr und bessere Testfarben. Zusätzlich zur Bewertung der Testlichtquelle, der Fidelity R_f, wird beim TM-30 Verfahren auch der »Farbumfang« berücksichtigt. Dieser drückt sich im Gamut-Index, abgekürzt R_g aus.

Die neue TM-30 Methode kann keine Bemusterung ersetzen, aber auf jeden Fall aussagekräftigere und detailliertere Informationen zur Farbwiedergabequalität von Lichtquellen geben.

GRACION arbeitet seit Einführung 2015 nach dem IES TM – 30 – 15.



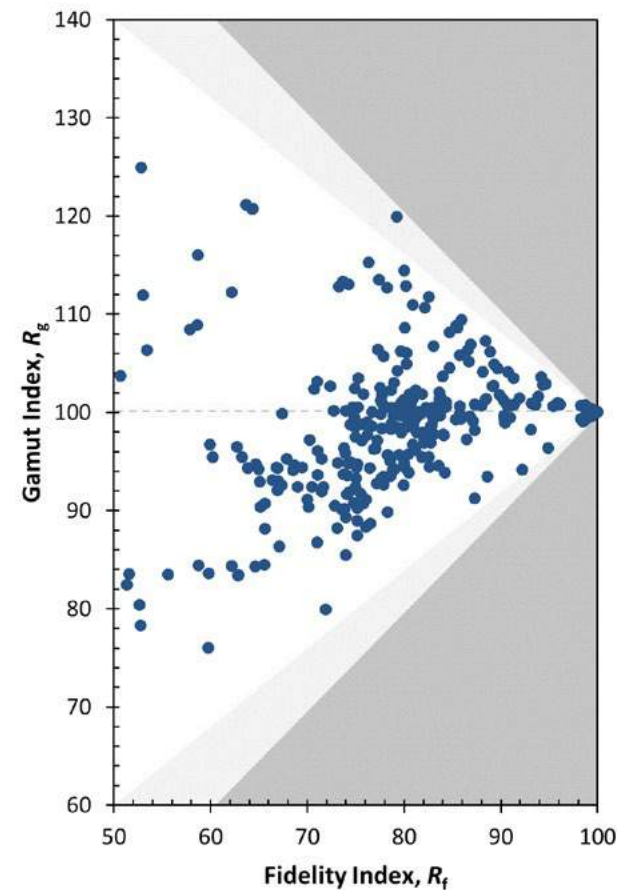
ES

GRACION produce IES TM 30-15

IES norteamericana (Illuminating Engineering Society) ha llevado a cabo en 2015, bajo el nombre TM-30-15, un método nuevo de IES para evaluar una nueva reproducción del color de la fuente de luz. Para ello, se ha desarrollado y optimizado el método de CIE 13.3. La gama de colores de prueba ha sido ampliada de 8 a 99 colores, basándose en el origen de colores naturales.

El nuevo "índice de referencia de similitud de espectro" representado como índice de fidelity(R_f), es el sustituto del antiguo Ra, con más y mejores pruebas de colores. La "gama" varía ahora de 0-100. Además de la evaluación de la prueba de fuente de luz, junto con el índice de fidelity (R_f), el método TM-30 y la "gama", obtenemos el "índice de gama"(R_g). El método nuevo TM-30 ofrece y revela información más detallada sobre la calidad de reproducción del color de fuente de luz.

GRACION trabaja de acuerdo con IES TM – 30-15 desde la introducción de este método en 2015.



SPECIFIC LIGHT COLOR APPLICATIONS

EN

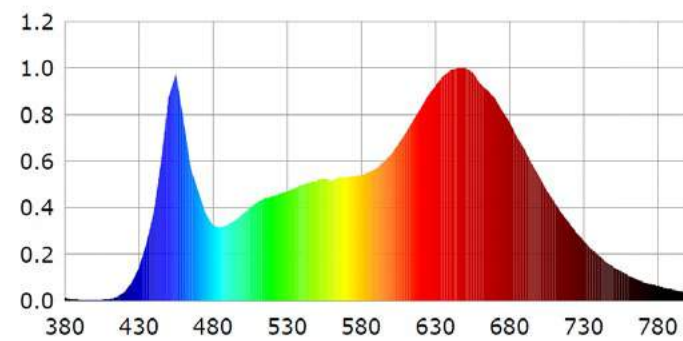
The product range is complex, fresh, healthy and sustainable. GRACION developments present your products in the best fitting light: stable and efficient. Simply fresh.

DE

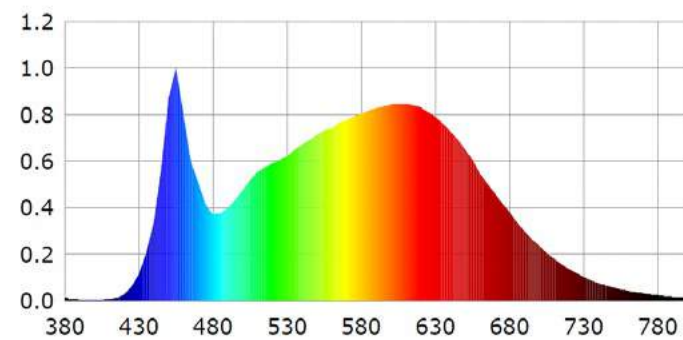
Das Warenangebot wird komplexer, frisch, gesund und nachhaltig. GRACION Entwicklungen präsentieren Ihre Produkte im richtigen Licht, nachhaltig und effizient. Einfach frisch.

ES

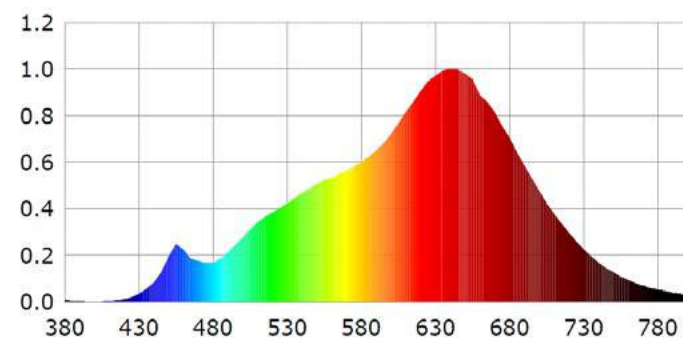
La gama de productos es muy variada, fresca, saludable y sostenible. Desarrollamos productos que aportan la luz adecuada, sostenible y eficiente.



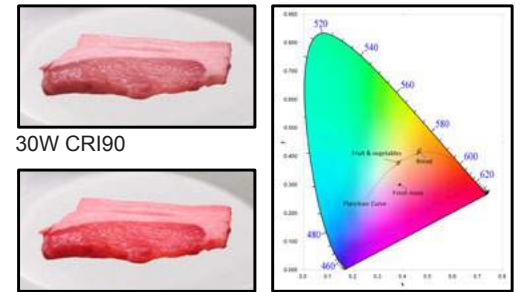
T27-28W Fresh Meat Color



T27-28W Fruit & Vegetable Color



T27-28W Golden Color



30W CR190

30W Fresh Meat Color

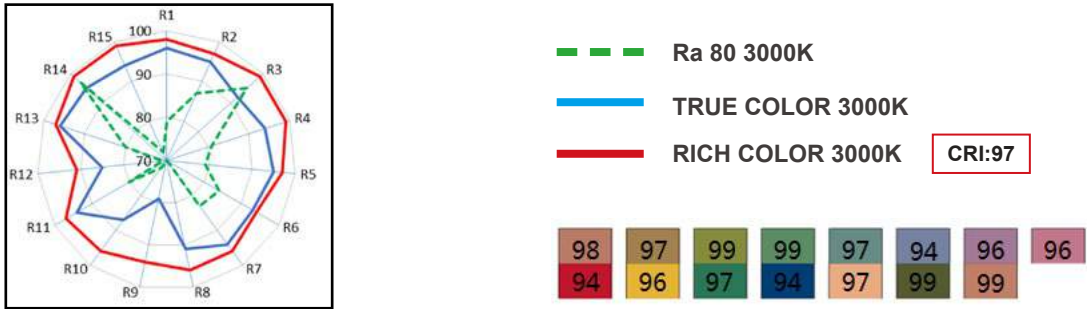


TRUE COLOR AND RICH COLOR

THE DIFFERENT LIGHTING METHODS

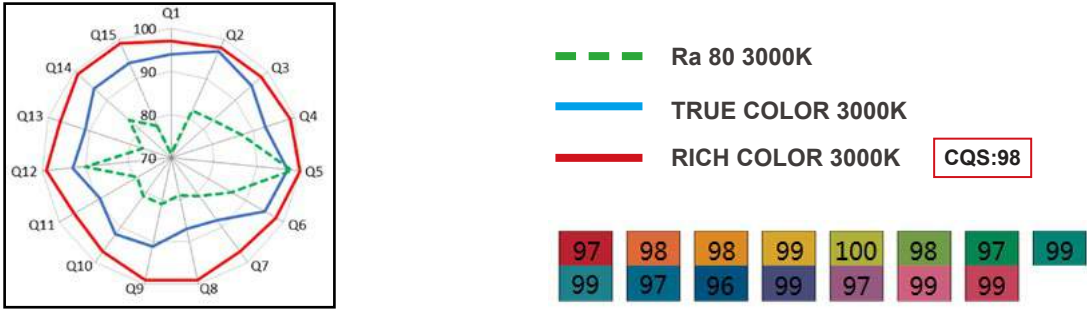
CRI

RA80 SERIES,TRUE COLOR SERIES and RICH COLOR SERIES
contrast in the color rendering index test.



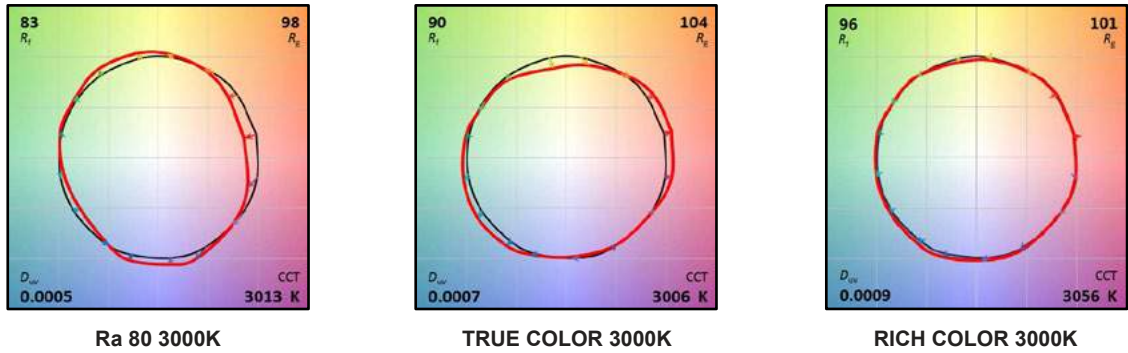
CQS

RA80 SERIES,TRUE COLOR SERIES and RICH COLOR SERIES
contrast in the color quality scale test.



TM-30-15

RA80 SERIES,TRUE COLOR SERIES and RICH COLOR SERIES
contrast in the TM-30-15 test.



RICH COLOR SERIES has excellent color reproduction.

Direct Lighting



Indirect Lighting



Spotlighting



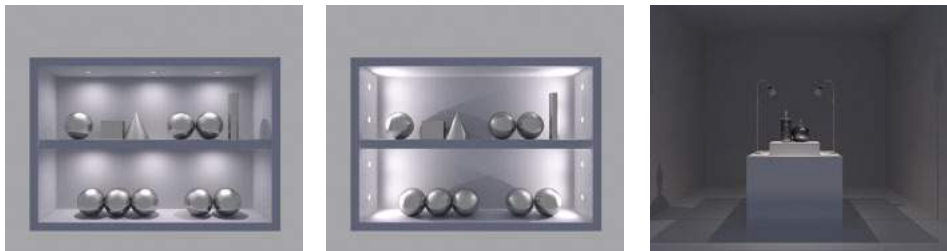
Wall Wash Lighting



Transmission Light



Cabinet lighting





EN

The values shown on the previous figure represent the measured values to the copy deadline. Thanks to our technical advancements the system features can possess different frames. The general sale and delivery of GRACION Europe GmbH can be seen on www.gracion-europe.com.

DE

Bei den dargestellten Werten handelt es sich um die zum Redaktionsschluss gemessenen Werte. Durch technische Weiterentwicklungen können sich Systemmerkmale ändern. Es gelten die allgemeinen Verkaufs- und Lieferbedingungen der GRACION Europe GmbH, einzusehen auf www.gracion-europe.com.

ES

Los valores mostrados representan los valores medidos a la fecha límite de la copia. Las características del sistema están sujetas a los avances técnicos y pueden ser modificadas. Para la venta y entrega de mercancías de GRACION Europe GmbH, puede consultar en www.gracion-europe.com.

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