



GRACION[®]

CATALOG 2018/19

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 Gunagzhou, 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 Gunagzhou, 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.

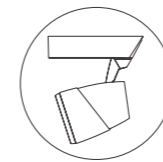
General Manager: *Annie Xu*

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.

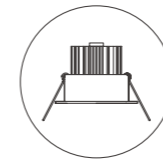
However, such rules are usually suitable only for a specific cultural / economic / business environment. Put in different context, the rules must be upgraded as genes need to be restructured or corrected.

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.

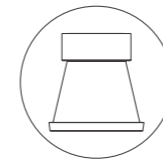
GRACION, a company at its forming stage.



Led Track Spotlight



Led Recessed Light

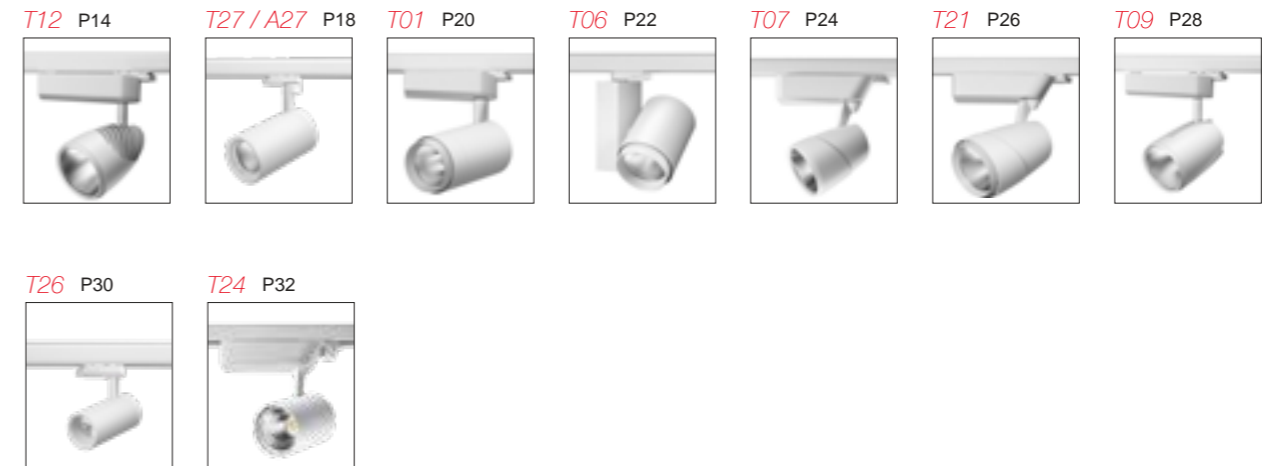


Led Surface mounted Light
& Pendant Light

Introduction

- 009-011 INDEX
- 012-033 LED TRACK SPOTLIGHT
- 034-081 LED RECESSED LIGHT
- 082-089 LED DOME LIGHT&DROPLIGHT
- 090-093 CASE
- 094-105 LIGHT DISTRIBUTION CURVE
- 106-111 BASIC KNOWLEDGE OF LIGHTING

Led Track Spotlight Series

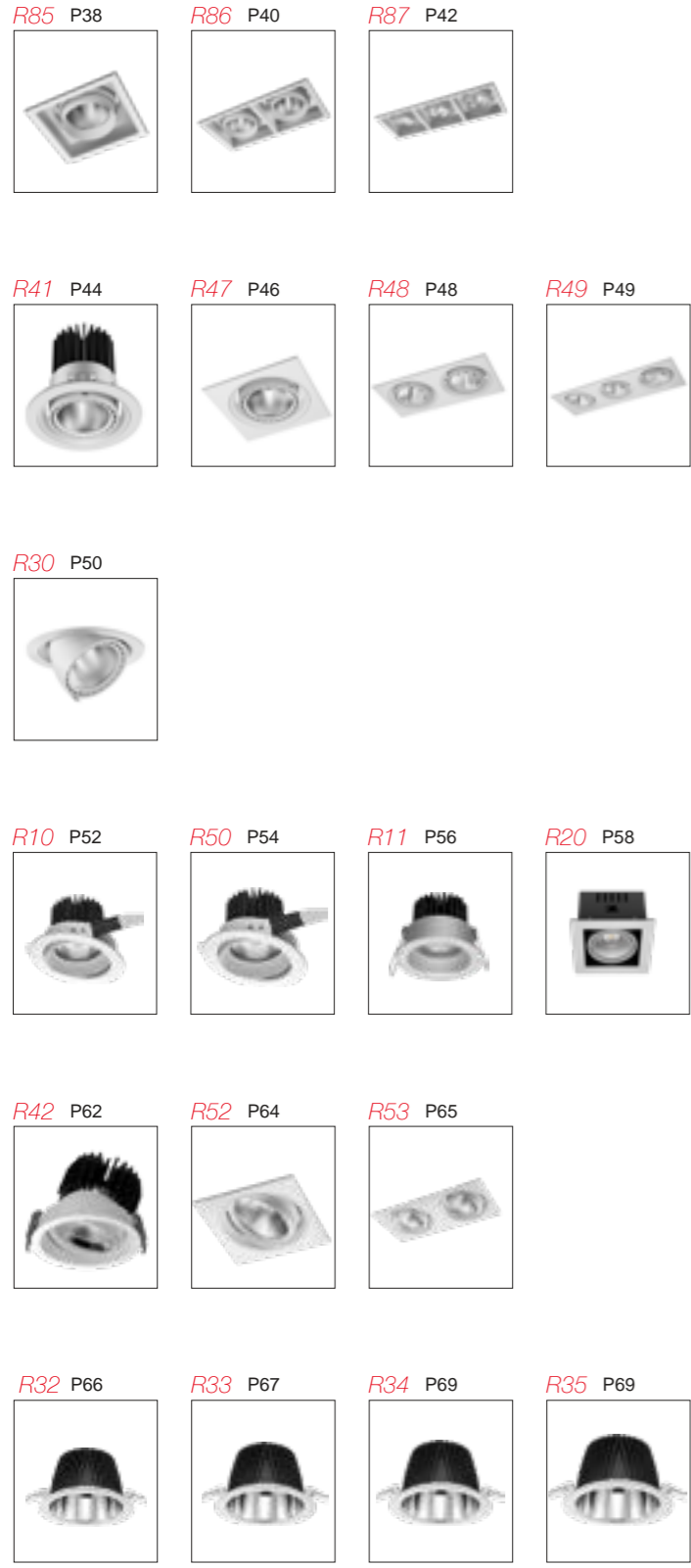


Led Recessed Light Series



PRODUCT OVERVIEW →
 PRODUKT ÜBERSICHT →
 DESCRIPCIÓN DEL PRODUCTO →

Led Recessed Light Series



Led Recessed Light Series



Led Dome Light & Droplight Series



Case	P90	Light Distribution Curve	P94
Color Temperature	P106	Rendering Index	P107
Color Rendition	P108	Spectrum	P109
True Color And Rich Color	P110	The Different Lighting Methods	P111



Led Track Spotlight Series

EN

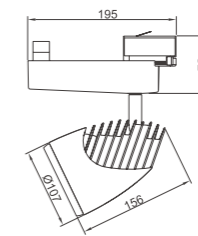
GRACION Track Spotlights represent innovative LED technology based on high-quality die-cast aluminum. The light heads are equipped with cooling ribs and an excellent thermal management system with a guaranteed durability of high quality of light. Various designs are available (rotatable and pivotable), 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



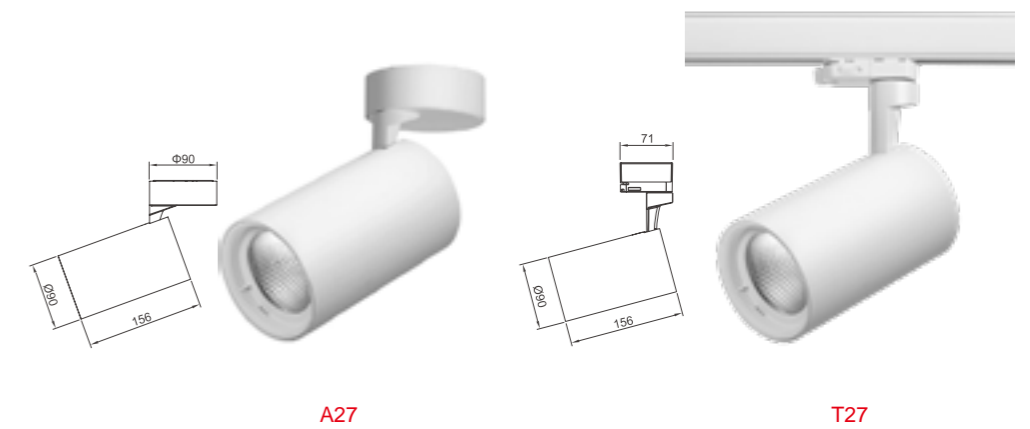


Input Voltage : 220-240V~ 50/60Hz



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency		
					R _f	R _g		15°	24°	36°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	88%	85%	82%
28W	3000 lm	3000K	90	True Color	92	99	2750	88%	85%	82%
36W		3000K	95	Crisp Color	91	103	2900	88%	85%	82%
28W		4000K	90	True Color	90	98	3000	88%	85%	82%
36W	4000 lm	3000K	90	True Color	92	99	3550	88%	85%	82%
36W		4000K	90	True Color	90	98	3900	88%	85%	82%

Luminous flux tolerance: ±10%
 Custom order CCT : 2700K,3500K

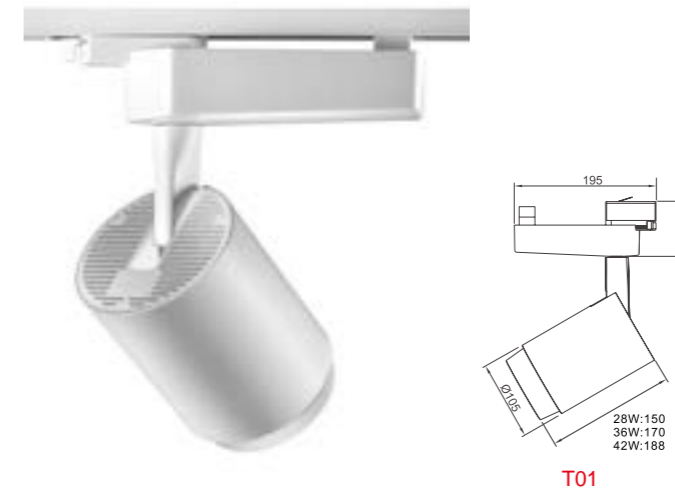


Input Voltage : 220-240V~ 50/60Hz



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency	
					R _f	R _g		20°	36°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	88%	87%
28W	3000 lm	3000K	90	Real Fashion Color	92	99	2650	88%	87%
28W		3000K	90	True Color	92	99	2750	88%	87%

Luminous flux tolerance: ±10%
 Custom order CCT: 2700K,3500K,4000K

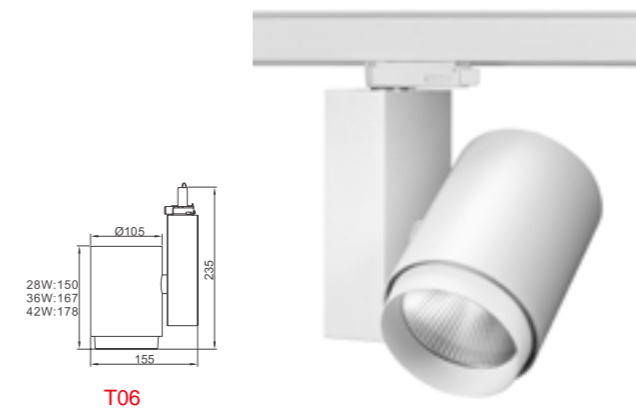


Input Voltage : 220-240V~ 50/60Hz



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	81%	81%	80%	78%
28W	3000 lm	3000K	90	True Color	92	99	2750	81%	81%	80%	78%
36W		3000K	95	Crisp Color	91	103	2900	81%	81%	80%	78%
28W		4000K	90	True Color	90	98	3000	81%	81%	80%	78%
42W		3000K	95	Crisp Color	91	103	3400	81%	81%	80%	78%
36W	4000 lm	3000K	90	True Color	92	99	3550	81%	81%	80%	78%
42W		3000K	90	True Color	92	99	4150	81%	81%	80%	78%
36W		4000K	90	True Color	90	98	3900	81%	81%	80%	78%
42W		4000K	90	True Color	90	98	4550	81%	81%	80%	78%
50W		4000K	80	Ordinary Color	83	95	4700	81%	81%	80%	78%
42W	Food	FM	—	Fresh Meat Color	—	—	2650	81%	81%	80%	78%
42W		FT	—	Fruit & Vegetable Color	—	—	4550	81%	81%	80%	78%
42W		B	—	Bakery Color	—	—	3950	81%	81%	80%	78%

Luminous flux tolerance: ±10%
 Custom order CCT: 2700K,3500K

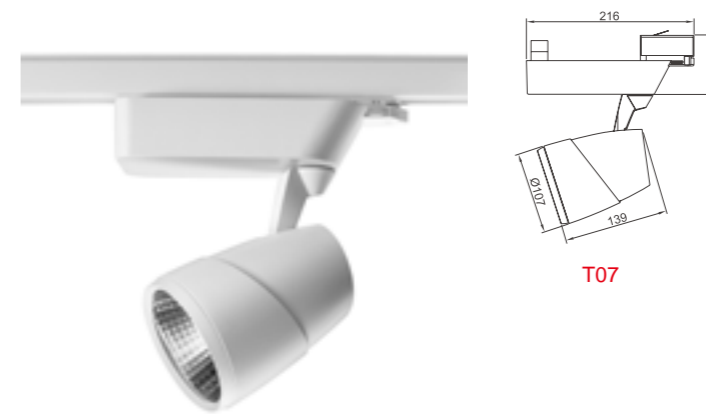


Input Voltage : 220-240V~ 50/60Hz



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	81%	81%	80%	78%
28W	3000 lm	3000K	90	True Color	92	99	2750	81%	81%	80%	78%
36W		3000K	95	Crisp Color	91	103	2900	81%	81%	80%	78%
28W		4000K	90	True Color	90	98	3000	81%	81%	80%	78%
42W		3000K	95	Crisp Color	91	103	3400	81%	81%	80%	78%
36W	4000 lm	3000K	90	True Color	92	99	3550	81%	81%	80%	78%
42W		3000K	90	True Color	92	99	4150	81%	81%	80%	78%
36W		4000K	90	True Color	90	98	3900	81%	81%	80%	78%
42W		4000K	90	True Color	90	98	4550	81%	81%	80%	78%
36W		4000K	80	Ordinary Color	83	95	4550	81%	81%	80%	78%
42W	5000 lm	3000K	80	Ordinary Color	83	95	4900	81%	81%	80%	78%
36W	Food	FM	—	Fresh Meat Color	—	—	2250	81%	81%	80%	78%
36W		FT	—	Fruit & Vegetable Color	—	—	3900	81%	81%	80%	78%
36W		B	—	Bakery Color	—	—	3400	81%	81%	80%	78%

Luminous flux tolerance: ±10%
 Custom order CCT: 2700K,3500K



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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency		
					R _f	R _g		14°	24°	36°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	91%	90%	88%
28W	3000 lm	3000K	90	True Color	92	99	2750	91%	90%	88%
36W		3000K	95	Crisp Color	91	103	2900	91%	90%	88%
28W		4000K	90	True Color	90	98	3000	91%	90%	88%
36W	4000 lm	3000K	90	True Color	92	99	3550	91%	90%	88%
36W		4000K	90	True Color	90	98	3900	91%	90%	88%
36W	Food	FM	—	Fresh Meat Color	—	—	2250	91%	90%	88%
36W		FT	—	Fruit & Vegetable Color	—	—	3900	91%	90%	88%
36W		B	—	Bakery Color	—	—	3400	91%	90%	88%

Luminous flux tolerance: ±10%
 Custom order CCT: 2700K,3500K



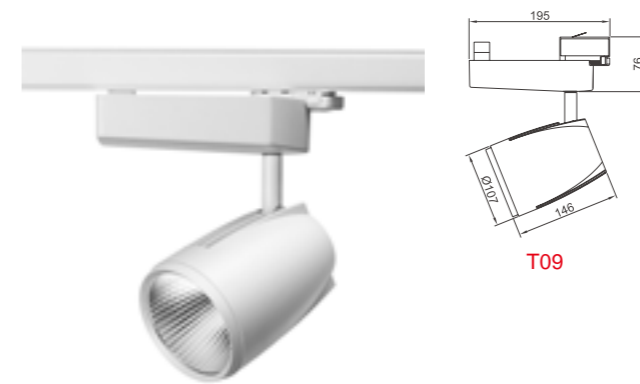
Input Voltage : 220-240V~ 50/60Hz



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency		
					R _f	R _g		14°	24°	36°
42W	4000 lm	3000K	95	Crisp Color	91	103	3900	91%	90%	88%
42W		3000K	90	True Color	92	99	4150	91%	90%	88%
50W	5000 lm	3000K	90	True Color	92	99	4750	91%	90%	88%
42W		4000K	90	True Color	90	98	4550	91%	90%	88%
50W		4000K	90	True Color	90	98	5150	91%	90%	86%
50W		4000K	80	Ordinary Color	83	95	5300	91%	90%	86%
42W	Food	FM	—	Fresh Meat Color	—	—	2650	91%	90%	88%
42W		FT	—	Fruit & Vegetable Color	—	—	4550	91%	90%	88%
42W		B	—	Bakery Color	—	—	3950	91%	90%	88%

Luminous flux tolerance: ±10%
 Custom order CCT: 2700K,3500K



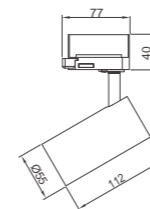


Input Voltage : 220-240V~ 50/60Hz



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency		
					R _f	R _g		14°	24°	36°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	91%	90%	88%
28W	3000 lm	3000K	90	True Color	92	99	2750	91%	90%	88%
36W		3000K	95	Crisp Color	91	103	2900	91%	90%	88%
42W		3000K	95	Crisp Color	91	103	3400	91%	90%	88%
28W		4000K	90	True Color	90	98	3000	91%	90%	88%
36W	4000 lm	3000K	90	True Color	92	99	3550	91%	90%	88%
42W		3000K	90	True Color	92	99	4150	91%	90%	88%
36W		4000K	90	True Color	90	98	3900	91%	90%	88%
42W		4000K	90	True Color	90	98	4550	91%	90%	88%

Luminous flux tolerance: ±10%
 Custom order CCT: 2700K,3500K



T26

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency	
					R _f	R _g		15°	24°
8W	1000 lm	3000K	80	Ordinary Color	83	95	950	88%	85%
8W		4000K	80	Ordinary Color	83	95	1000	88%	85%

Luminous flux tolerance: ±10%
 Custom order CCT: 2700K,3500K



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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	91%	91%	90%	88%
28W	3000 lm	3000K	90	True Color	92	99	2750	91%	91%	90%	88%
36W		3000K	95	Crisp Color	91	103	2900	91%	91%	90%	88%
28W		4000K	90	True Color	90	98	3000	91%	91%	90%	88%
36W	4000 lm	3000K	90	True Color	92	99	3550	91%	91%	90%	88%
36W		4000K	90	True Color	90	98	3900	91%	91%	90%	88%
36W	Food	FM	—	Fresh Meat Color	—	—	2250	91%	91%	90%	88%
36W		FT	—	Fruit & Vegetable Color	—	—	3900	91%	91%	90%	88%
36W		B	—	Bakery Color	—	—	3400	91%	91%	90%	88%

Luminous flux tolerance: ±10%
 Custom order CCT: 2700K,3500K



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

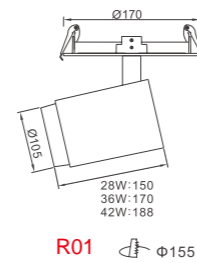
Design trifft Funktion

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.



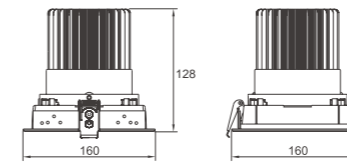
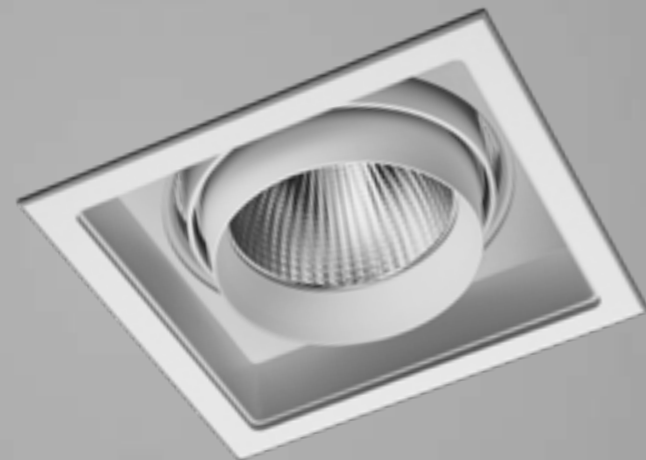
Led Recessed Light GRACION LIGHTING

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	81%	81%	80%	78%
28W	3000 lm	3000K	90	True Color	92	99	2750	81%	81%	80%	78%
36W		3000K	95	Crisp Color	91	103	2900	81%	81%	80%	78%
42W		3000K	95	Crisp Color	91	103	3400	81%	81%	80%	78%
28W		4000K	90	True Color	90	98	3000	81%	81%	80%	78%
36W	4000 lm	3000K	90	True Color	92	99	3550	81%	81%	80%	78%
42W		3000K	90	True Color	92	99	4150	81%	81%	80%	78%
36W		4000K	90	True Color	90	98	3900	81%	81%	80%	78%
42W		4000K	90	True Color	90	98	4550	81%	81%	80%	78%
42W	Food	FM	—	Fresh Meat Color	—	—	2650	81%	81%	80%	78%
42W		FT	—	Fruit & Vegetable Color	—	—	4550	81%	81%	80%	78%
42W		B	—	Bakery Color	—	—	3950	81%	81%	80%	78%

Luminous flux tolerance: ±10%
Custom order CCT: 2700K,3500K



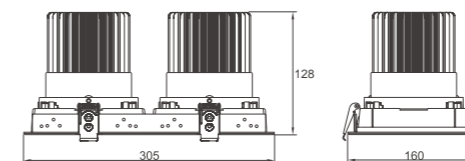
R85 150x150

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	81%	81%	80%	78%
28W	3000 lm	3000K	90	True Color	92	99	2750	81%	81%	80%	78%
36W		3000K	95	Crisp Color	91	103	2900	81%	81%	80%	78%
42W		3000K	95	Crisp Color	91	103	3400	81%	81%	80%	78%
28W		4000K	90	True Color	90	98	3000	81%	81%	80%	78%
36W	4000 lm	3000K	90	True Color	92	99	3550	81%	81%	80%	78%
42W		3000K	90	True Color	92	99	4150	81%	81%	80%	78%
36W		4000K	90	True Color	90	98	3900	81%	81%	80%	78%
42W		4000K	90	True Color	90	98	4550	81%	81%	80%	78%

Luminous flux tolerance: ±10%
 Custom order CCT: 2700K,3500K



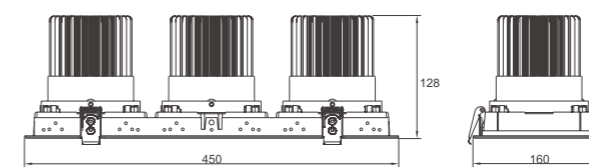
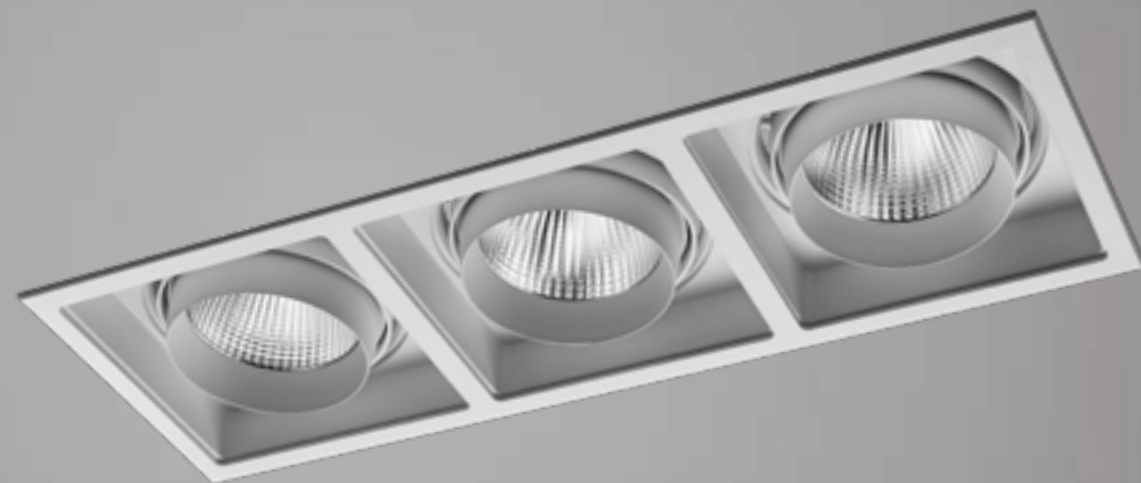
R86 295x150

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
2x28W	5000 lm	3000K	95	Crisp Color	91	103	4550	81%	81%	80%	78%
2x28W	6000 lm	3000K	90	True Color	92	99	5550	81%	81%	80%	78%
2x36W		3000K	95	Crisp Color	91	103	5850	81%	81%	80%	78%
2x28W		4000K	90	True Color	90	98	6050	81%	81%	80%	78%
2x42W	8000 lm	3000K	95	Crisp Color	91	103	6800	81%	81%	80%	78%
2x36W		3000K	90	True Color	92	99	7100	81%	81%	80%	78%
2x42W		3000K	90	True Color	92	99	8300	81%	81%	80%	78%
2x36W		4000K	90	True Color	90	98	7800	81%	81%	80%	78%
2x42W	10000 lm	4000K	90	True Color	90	98	9050	81%	81%	80%	78%

Luminous flux tolerance: ±10%
 Custom order CCT: 2700K,3500K



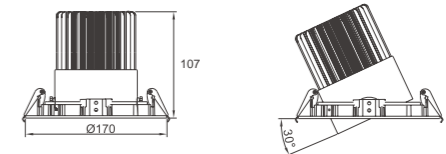
R87 440x150

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
3x28W	8000 lm	3000K	95	Crisp Color	91	103	6800	78%	81%	78%	78%
3x28W		3000K	90	True Color	92	99	8300	78%	81%	78%	78%
3x36W		3000K	95	Crisp Color	91	103	8750	78%	81%	78%	78%
3x42W	10000 lm	3000K	95	Crisp Color	91	103	10200	78%	81%	78%	78%
3x36W		3000K	90	True Color	92	99	10700	78%	81%	78%	78%
3x28W		4000K	90	True Color	90	98	9050	78%	81%	78%	78%
3x42W	12000 lm	3000K	90	True Color	92	99	12450	78%	81%	78%	78%
3x36W		4000K	90	True Color	90	98	11650	78%	81%	78%	78%
3x42W		4000K	90	True Color	90	98	13600	78%	81%	78%	78%

Luminous flux tolerance: ±10%
 Custom order CCT: 2700K,3500K



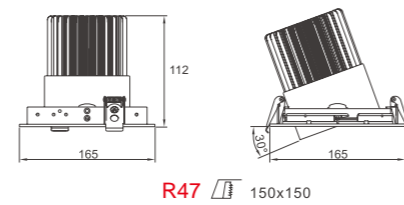
R41 ϕ 155

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	81%	81%	80%	78%
28W	3000 lm	3000K	90	True Color	92	99	2750	81%	81%	80%	78%
36W		3000K	95	Crisp Color	91	103	2900	81%	81%	80%	78%
42W		3000K	95	Crisp Color	91	103	3400	81%	81%	80%	78%
28W		4000K	90	True Color	90	98	3000	81%	81%	80%	78%
36W	4000 lm	3000K	90	True Color	92	99	3550	81%	81%	80%	78%
42W		3000K	90	True Color	92	99	4150	81%	81%	80%	78%
36W		4000K	90	True Color	90	98	3900	81%	81%	80%	78%
42W		4000K	90	True Color	90	98	4550	81%	81%	80%	78%

Luminous flux tolerance: ±10%
 Custom order CCT: 2700K,3500K

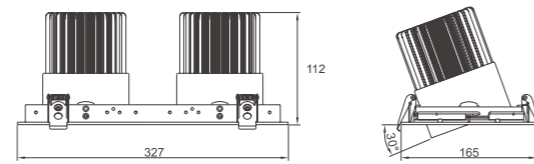


Input Voltage : 220-240V~ 50/60Hz

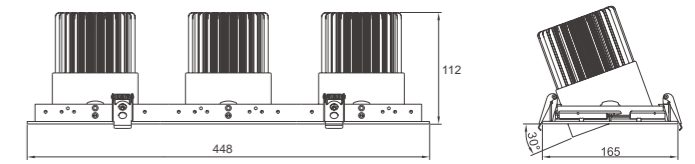


System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	81%	81%	80%	78%
28W	3000 lm	3000K	90	True Color	92	99	2750	81%	81%	80%	78%
36W		3000K	95	Crisp Color	91	103	2900	81%	81%	80%	78%
42W		3000K	95	Crisp Color	91	103	3400	81%	81%	80%	78%
28W		4000K	90	True Color	90	98	3000	81%	81%	80%	78%
36W	4000 lm	3000K	90	True Color	92	99	3550	81%	81%	80%	78%
42W		3000K	90	True Color	92	99	4150	81%	81%	80%	78%
36W		4000K	90	True Color	90	98	3900	81%	81%	80%	78%
42W		4000K	90	True Color	90	98	4550	81%	81%	80%	78%

Luminous flux tolerance: ±10%
 Custom order CCT : 2700K,3500K



R48 305x150



R49 468x150

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
2x28W	5000 lm	3000K	95	Crisp Color	91	103	4550	81%	81%	80%	78%
2x28W	6000 lm	3000K	90	True Color	92	99	5550	81%	81%	80%	78%
2x36W		3000K	95	Crisp Color	91	103	5850	81%	81%	80%	78%
2x28W		4000K	90	True Color	90	98	6050	81%	81%	80%	78%
2x42W	8000 lm	3000K	95	Crisp Color	91	103	6800	81%	81%	80%	78%
2x36W		3000K	90	True Color	92	99	7100	81%	81%	80%	78%
2x42W		3000K	90	True Color	92	99	8300	81%	81%	80%	78%
2x36W		4000K	90	True Color	90	98	7800	81%	81%	80%	78%
2x42W	10000 lm	4000K	90	True Color	90	98	9050	81%	81%	80%	78%

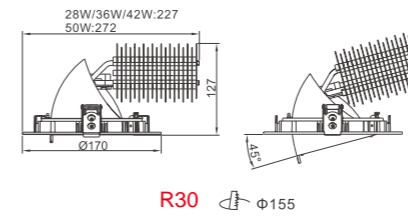
Luminous flux tolerance: ±10%
Custom order CCT : 2700K,3500K

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
3x28W	8000 lm	3000K	95	Crisp Color	91	103	6800	78%	81%	78%	78%
3x28W		3000K	90	True Color	92	99	8300	78%	81%	78%	78%
3x36W		3000K	95	Crisp Color	91	103	8750	78%	81%	78%	78%
3x42W	10000 lm	3000K	95	Crisp Color	91	103	10200	78%	81%	78%	78%
3x36W		3000K	90	True Color	92	99	10700	78%	81%	78%	78%
3x28W		4000K	90	True Color	90	98	9050	78%	81%	78%	78%
3x42W	12000 lm	3000K	90	True Color	92	99	12450	78%	81%	78%	78%
3x36W		4000K	90	True Color	90	98	11650	78%	81%	78%	78%
3x42W		4000K	90	True Color	90	98	13600	78%	81%	78%	78%

Luminous flux tolerance: ±10%
Custom order CCT : 2700K,3500K



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

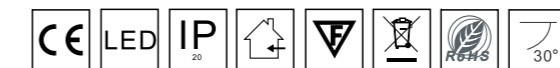


System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	91%	91%	90%	88%
28W	3000 lm	3000K	90	True Color	92	99	2750	91%	91%	90%	88%
36W		3000K	95	Crisp Color	91	103	2900	91%	91%	90%	88%
42W		3000K	95	Crisp Color	91	103	3400	91%	91%	90%	88%
28W		4000K	90	True Color	90	98	3000	91%	91%	90%	88%
36W	4000 lm	3000K	90	True Color	92	99	3550	91%	91%	90%	88%
42W		3000K	90	True Color	92	99	4150	91%	91%	90%	88%
36W		4000K	90	True Color	90	98	3900	91%	91%	90%	88%
50W	5000 lm	3000K	90	True Color	92	99	4750	91%	91%	90%	88%
42W		3000K	80	Ordinary Color	83	95	4900	91%	91%	90%	88%
42W		4000K	90	True Color	90	98	4550	91%	91%	90%	88%
50W		4000K	90	True Color	90	98	5200	91%	91%	90%	88%
42W		4000K	80	Ordinary Color	83	95	5300	91%	91%	90%	88%
42W	Food	FM	—	True Color	—	—	2650	91%	91%	90%	88%
42W		FT	—	Fresh Meat Color	—	—	4550	91%	91%	90%	88%
42W		B	—	Fruit & Vegetable Color	—	—	3950	91%	91%	90%	88%

Luminous flux tolerance: ±10%
 Custom order CCT : 2700K,3500K

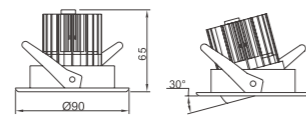


Input Voltage : 220-240V~ 50/60Hz



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency	
					R _f	R _g		24°	36°
6W	1000 lm	3000K	80	Ordinary Color	83	95	700	75%	75%
6W		4000K	80	Ordinary Color	83	95	750	75%	75%
8W		3000K	80	Ordinary Color	83	95	950	75%	75%
8W		4000K	80	Ordinary Color	83	95	1000	75%	75%

Luminous flux tolerance: ±10%
 Custom order CCT : 2700K,3500K



R50 ϕ 75

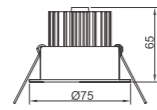
Input Voltage : 220-240V~ 50/60Hz



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency	
					R _f	R _g		24°	36°
6W	1000 lm	3000K	80	Ordinary Color	83	95	700	75%	75%
6W		4000K	80	Ordinary Color	83	95	750	75%	75%
8W		3000K	80	Ordinary Color	83	95	950	75%	75%
8W		4000K	80	Ordinary Color	83	95	1000	75%	75%

Luminous flux tolerance: ±10%
 Custom order CCT : 2700K,3500K





R11 ϕ 62

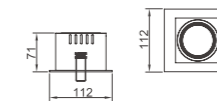
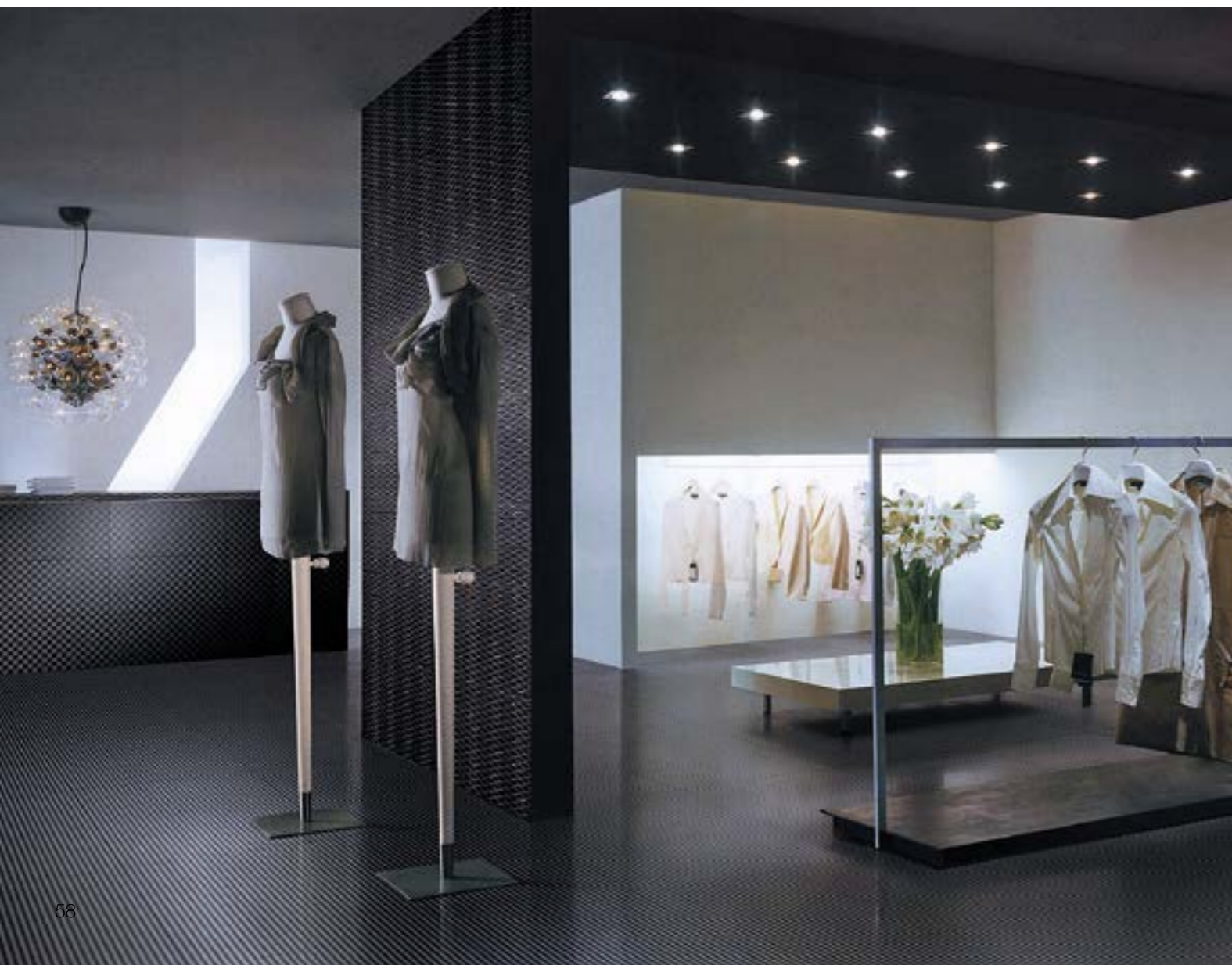
Input Voltage : 220-240V~ 50/60Hz



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency	
					R _f	R _g		24°	36°
6W	1000 lm	3000K	80	Ordinary Color	83	95	700	75%	75%
6W		4000K	80	Ordinary Color	83	95	750	75%	75%
8W		3000K	80	Ordinary Color	83	95	950	75%	75%
8W		4000K	80	Ordinary Color	83	95	1000	75%	75%

Luminous flux tolerance: \pm 10%
 Custom order CCT : 2700K,3500K





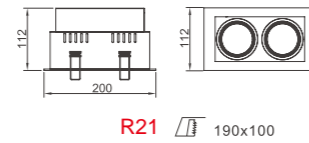
R20 100x100

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

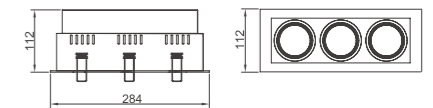


System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency	
					R _f	R _g		24°	36°
6W	1000 lm	3000K	80	Ordinary Color	83	95	700	75%	75%
6W		4000K	80	Ordinary Color	83	95	750	75%	75%
8W		3000K	80	Ordinary Color	83	95	950	75%	75%
8W		4000K	80	Ordinary Color	83	95	1000	75%	75%

Luminous flux tolerance: ±10%
 Custom order CCT : 2700K,3500K

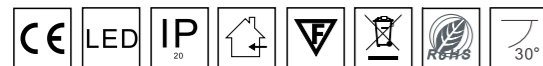


R21 190x100



R22 275x100

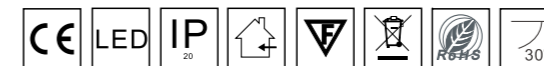
Input Voltage : 220-240V~ 50/60Hz



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency	
					R _f	R _g		24°	36°
2x6W	1000 lm	3000K	80	Ordinary Color	83	95	1400	75%	75%
2x6W		4000K	80	Ordinary Color	83	95	1500	75%	75%
2x8W	2000 lm	3000K	80	Ordinary Color	83	95	1900	75%	75%
2x8W		4000K	80	Ordinary Color	83	95	2000	75%	75%

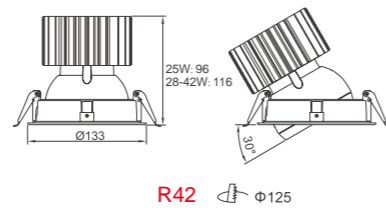
Luminous flux tolerance: ±10%
Custom order CCT : 2700K,3500K

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency	
					R _f	R _g		24°	36°
3x6W	2000 lm	3000K	80	Ordinary Color	83	95	2100	75%	75%
3x6W		4000K	80	Ordinary Color	83	95	2250	75%	75%
3x8W	3000 lm	3000K	80	Ordinary Color	83	95	2850	75%	75%
3x8W		4000K	80	Ordinary Color	83	95	3000	75%	75%

Luminous flux tolerance: ±10%
Custom order CCT : 2700K,3500K

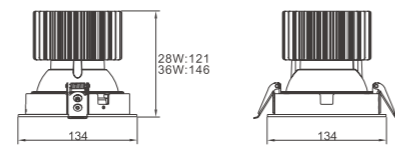


Input Voltage : 220-240V~ 50/60Hz

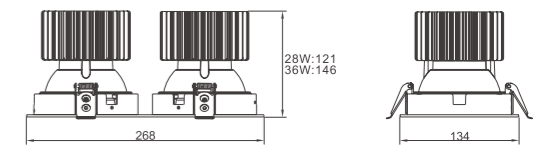


System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	91%	91%	90%	88%
28W	3000 lm	3000K	90	True Color	92	99	2750	91%	91%	90%	88%
36W		3000K	95	Crisp Color	91	103	2900	91%	91%	90%	88%
28W		3000K	80	Ordinary Color	83	95	3300	91%	91%	90%	88%
28W		4000K	90	True Color	90	98	3000	91%	91%	90%	88%
36W	4000 lm	3000K	90	True Color	92	99	3550	91%	91%	90%	88%
28W		4000K	80	Ordinary Color	83	95	3500	91%	91%	90%	88%
36W		4000K	90	True Color	90	98	3900	91%	91%	90%	88%

Luminous flux tolerance: ±10%
Custom order CCT : 2700K,3500K



R52 Φ 125



R53 255x125

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	91%	91%	90%	88%
28W	3000 lm	3000K	90	True Color	92	99	2750	91%	91%	90%	88%
36W		3000K	95	Crisp Color	91	103	2900	91%	91%	90%	88%
28W		3000K	80	Ordinary Color	83	95	3300	91%	91%	90%	88%
28W		4000K	90	True Color	90	98	3000	91%	91%	90%	88%
36W	4000 lm	3000K	90	True Color	92	99	3550	91%	91%	90%	88%
28W		4000K	80	Ordinary Color	83	95	3500	91%	91%	90%	88%
36W		4000K	90	True Color	90	98	3900	91%	91%	90%	88%

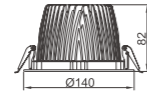
Luminous flux tolerance: ±10%
Custom order CCT : 2700K,3500K

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
2x28W	5000 lm	3000K	95	Crisp Color	91	103	4500	91%	91%	90%	88%
2x28W	6000 lm	3000K	90	True Color	92	99	5500	91%	91%	90%	88%
2x36W		3000K	95	Crisp Color	91	103	5800	91%	91%	90%	88%
2x28W		3000K	80	Ordinary Color	83	95	6600	91%	91%	90%	88%
2x28W		4000K	90	True Color	90	98	6000	91%	91%	90%	88%
2x36W	8000 lm	3000K	90	True Color	92	99	7100	91%	91%	90%	88%
2x28W		4000K	80	Ordinary Color	83	95	7000	91%	91%	90%	88%
2x36W		4000K	90	True Color	90	98	7800	91%	91%	90%	88%

Luminous flux tolerance: ±10%
Custom order CCT : 2700K,3500K



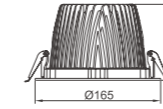
R32 ϕ 125

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency 65°
					R _f	R _g		
8W	1000 lm	3000K	80	Ordinary Color	—	—	900	82%
8W		4000K	80	Ordinary Color	—	—	950	82%
10W		3000K	80	Ordinary Color	—	—	1050	82%
10W		4000K	80	Ordinary Color	—	—	1100	82%

Luminous flux tolerance: \pm 10%
Custom order CCT : 2700K,3500K



R33 ϕ 150

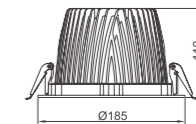
Input Voltage: 220-240V~ 50/60Hz



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency 65°
					R _f	R _g		
10W	1000 lm	3000K	80	Ordinary Color	—	—	1050	82%
10W		4000K	80	Ordinary Color	—	—	1100	82%
14W	2000 lm	3000K	80	Ordinary Color	—	—	1600	82%
14W		4000K	80	Ordinary Color	—	—	1750	82%

Luminous flux tolerance: \pm 10%
Custom order CCT : 2700K,3500K





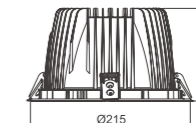
R34 ϕ 175

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency 65°
					R _f	R _g		
14W	2000 lm	3000K	80	Ordinary Color	—	—	1600	82%
14W		4000K	80	Ordinary Color	—	—	1750	82%
20W		3000K	80	Ordinary Color	—	—	2350	82%
20W	3000 lm	4000K	80	Ordinary Color	—	—	2500	82%
30W	4000 lm	3000K	80	Ordinary Color	—	—	3550	82%
30W		4000K	80	Ordinary Color	—	—	3800	82%

Luminous flux tolerance: ±10%
Custom order CCT : 2700K,3500K



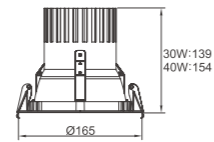
R35 ϕ 205

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



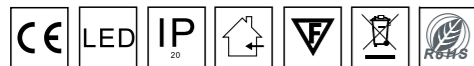
System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency 65°
					R _f	R _g		
26W	3000 lm	3000K	80	Ordinary Color	—	—	3250	82%
26W		4000K	80	Ordinary Color	—	—	3450	82%
40W	5000 lm	3000K	80	Ordinary Color	—	—	4900	82%
40W		4000K	80	Ordinary Color	—	—	5250	82%

Luminous flux tolerance: ±10%
Custom order CCT : 2700K,3500K



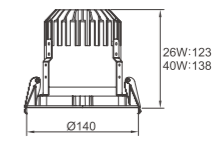
R82 Φ 150

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency 65°
					R _f	R _g		
30W	4000 lm	3000K	80	Ordinary Color	—	—	3800	82%
30W		4000K	80	Ordinary Color	—	—	4100	82%
40W	5000 lm	3000K	80	Ordinary Color	—	—	4900	82%
40W		4000K	80	Ordinary Color	—	—	5250	82%

Luminous flux tolerance: \pm 10%
 Custom order CCT : 2700K,3500K



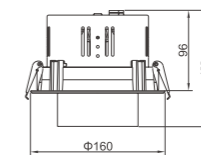
R83 Φ 125

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency 65°
					R _f	R _g		
26W	3000 lm	3000K	80	Ordinary Color	—	—	3250	82%
26W		4000K	80	Ordinary Color	—	—	3450	82%
40W	5000 lm	3000K	80	Ordinary Color	—	—	4900	82%
40W		4000K	80	Ordinary Color	—	—	5250	82%

Luminous flux tolerance: \pm 10%
 Custom order CCT : 2700K,3500K



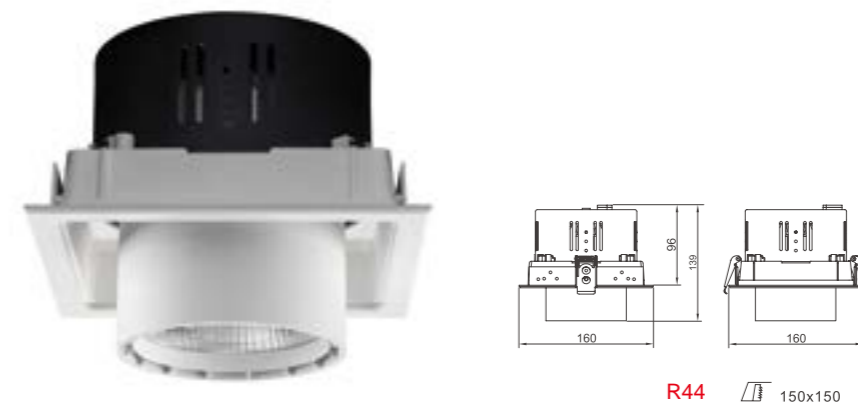
R56 ϕ 150

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	91%	91%	90%	88%
28W	3000 lm	3000K	90	True Color	92	99	2750	91%	91%	90%	88%
36W		3000K	95	Crisp Color	91	103	2900	91%	91%	90%	88%
28W		4000K	90	True Color	90	98	3000	91%	91%	90%	88%
36W	4000 lm	3000K	90	True Color	92	99	3550	91%	91%	90%	88%
36W		4000K	90	True Color	90	98	3900	91%	91%	90%	88%
36W	Food	FM	—	Fresh Meat Color	—	—	2250	91%	91%	90%	88%
36W		FT	—	Fruit & Vegetable Color	—	—	3900	91%	91%	90%	88%
36W		B	—	Bakery Color	—	—	3400	91%	91%	90%	88%

Luminous flux tolerance: ±10%
 Custom order CCT : 2700K,3500K

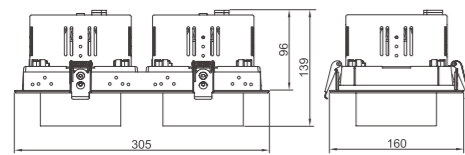


Input Voltage : 220-240V~ 50/60Hz

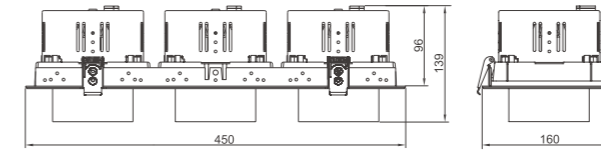


System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	91%	91%	90%	88%
28W	3000 lm	3000K	90	True Color	92	99	2750	91%	91%	90%	88%
36W		3000K	95	Crisp Color	91	103	2900	91%	91%	90%	88%
28W		4000K	90	True Color	90	98	3000	91%	91%	90%	88%
36W	4000 lm	3000K	90	True Color	92	99	3550	91%	91%	90%	88%
36W		4000K	90	True Color	90	98	3900	91%	91%	90%	88%
36W	Food	FM	—	Fresh Meat Color	—	—	2250	91%	91%	90%	88%
36W		FT	—	Fruit & Vegetable Color	—	—	3900	91%	91%	90%	88%
36W		B	—	Bakery Color	—	—	3400	91%	91%	90%	88%

Luminous flux tolerance: ±10%
 Custom order CCT : 2700K,3500K



R45 295x150



R46 440x150

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
2x28	5000lm	3000K	95	Crisp Color	91	103	4550	91%	91%	90%	88%
2x28		3000K	90	True Color	92	99	5550	91%	91%	90%	88%
2x36	6000lm	3000K	95	Crisp Color	91	103	5850	91%	91%	90%	88%
2x28		4000K	90	True Color	90	98	6050	91%	91%	90%	88%
2x36	8000lm	3000K	90	True Color	92	99	7150	91%	91%	90%	88%
2x36		4000K	90	True Color	90	98	7800	91%	91%	90%	88%

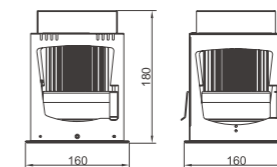
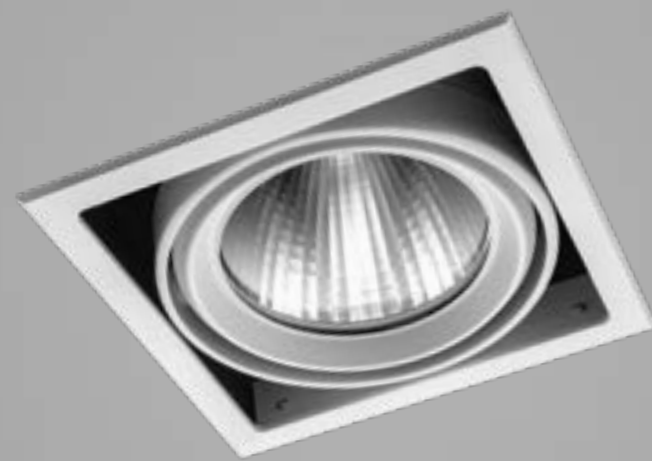
Luminous flux tolerance: ±10%
Custom order CCT : 2700K,3500K

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency			
					R _f	R _g		15°	24°	36°	45°
3x28	6000lm	3000K	95	Crisp Color	91	103	6800	91%	91%	90%	88%
3x28	8000 lm	3000K	90	True Color	92	99	8300	91%	91%	90%	88%
3x36		3000K	95	Crisp Color	91	103	8750	91%	91%	90%	88%
3x28	10000 lm	4000K	90	True Color	90	98	9050	91%	91%	90%	88%
3x36		3000K	90	True Color	92	99	10700	91%	91%	90%	88%
3x36	12000 lm	4000K	90	True Color	90	98	11650	91%	91%	90%	88%

Luminous flux tolerance: ±10%
Custom order CCT : 2700K,3500K



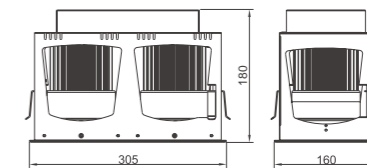
R70  150x150

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



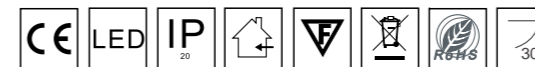
System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency		
					R _f	R _g		14°	24°	36°
28W	2000 lm	3000K	95	Crisp Color	91	103	2250	91%	90%	88%
28W	3000 lm	3000K	90	True Color	92	99	2750	91%	90%	88%
36W		3000K	95	Crisp Color	91	103	2900	91%	90%	88%
42W		3000K	95	Crisp Color	91	103	3400	91%	90%	88%
28W		4000K	90	True Color	90	98	3000	91%	90%	88%
36W	4000 lm	3000K	90	True Color	92	99	3550	91%	90%	88%
42W		3000K	90	True Color	92	99	4150	91%	90%	88%
36W		4000K	90	True Color	90	98	3900	91%	90%	88%
42W		4000K	90	True Color	90	98	4550	91%	90%	88%

Luminous flux tolerance: ±10%
 Custom order CCT : 2700K,3500K



R71 295x150

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency		
					R _f	R _g		14°	24°	36°
2x28W	5000lm	3000K	95	Crisp Color	91	103	4550	91%	90%	88%
2x28W		3000K	90	True Color	92	99	5550	91%	90%	88%
2x36W	6000lm	3000K	95	Crisp Color	91	103	5850	91%	90%	88%
2x28W		4000K	90	True Color	90	98	6050	91%	90%	88%
2x42W	8000lm	3000K	95	Crisp Color	91	103	6800	91%	90%	88%
2x36W		3000K	90	True Color	92	99	7150	91%	90%	88%
2x42W	8000lm	3000K	90	True Color	92	99	8300	91%	90%	88%
2x36W		4000K	90	True Color	90	98	7800	91%	90%	88%
2x42W		4000K	90	True Color	90	98	9050	91%	90%	88%

Luminous flux tolerance: ±10%
 Custom order CCT : 2700K,3500K



Led Surface mounted Light & Pendant Light

EN

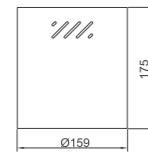
The perfect design and the innovative techniques of GRACION appear also in our pendant lamps. GRACION pendant lamps have been developed and manufactured functional and are following the most modern technologies - like all GRACION products. GRACION pendant lamps can be mounted directly to the ceiling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

DE

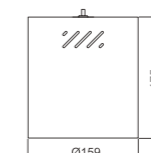
Perfekt und Gestaltung, Innovation und Design zeichnen GRACION Pendelleuchten aus. GRACION Pendelleuchten sind funktionell und nach neuestem Entwicklungsstand entwickelt und gefertigt worden. Wie alle GRACION Produkte. GRACION Pendelleuchten können direkt an der Decke oder über Stromschienen befestigt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



C04



P07

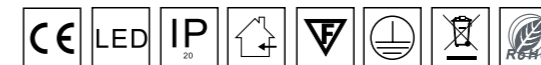
Input Voltage : 220-240V~ 50/60Hz



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency 55°
					R _f	R _g		
28W	3000 lm	3000K	80	Ordinary Color	83	95	3300	80%
36W	4000 lm	3000K	80	Ordinary Color	83	95	4200	80%
28W		4000K	80	Ordinary Color	83	95	3550	80%
42W	5000 lm	3000K	80	Ordinary Color	83	95	4900	80%
36W		4000K	80	Ordinary Color	83	95	4550	80%
42W		4000K	80	Ordinary Color	83	95	5300	80%
50W	6000 lm	3000K	80	Ordinary Color	83	95	5600	80%
50W		4000K	80	Ordinary Color	83	95	6050	80%
42W	Food	FM	—	Fresh Meat Color	—	—	2650	80%
42W		FT	—	Fruit & Vegetable Color	—	—	4550	80%
42W		B	—	Bakery Color	—	—	3950	80%

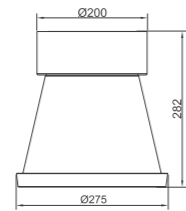
Luminous flux tolerance: ±10%
Custom order CCT : 2700K,3500K

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



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency 55°
					R _f	R _g		
28W	3000 lm	3000K	80	Ordinary Color	83	95	3300	80%
36W	4000 lm	3000K	80	Ordinary Color	83	95	4200	80%
28W		4000K	80	Ordinary Color	83	95	3550	80%
42W	5000 lm	3000K	80	Ordinary Color	83	95	4900	80%
36W		4000K	80	Ordinary Color	83	95	4550	80%
42W		4000K	80	Ordinary Color	83	95	5300	80%
50W	6000 lm	3000K	80	Ordinary Color	83	95	5600	80%
50W		4000K	80	Ordinary Color	83	95	6050	80%
42W	Food	FM	—	Fresh Meat Color	—	—	2650	80%
42W		FT	—	Fruit & Vegetable Color	—	—	4550	80%
42W		B	—	Bakery Color	—	—	3950	80%

Luminous flux tolerance: ±10%
Custom order CCT : 2700K,3500K



P03

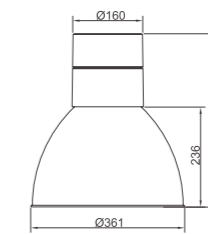
Input Voltage : 220-240V~ 50/60Hz



System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency	
					R _f	R _g		55°	60°
42W	4000 lm	3000K	90	True Color	92	99	4150	80%	80%
42W	5000 lm	4000K	90	True Color	90	98	4550	80%	80%
56W		3000K	90	True Color	92	99	5550	80%	80%
56W	6000 lm	4000K	90	True Color	90	98	6050	80%	80%
42W	Food	FM	—	Fresh Meat Color	—	—	2650	80%	80%
42W		FT	—	Fruit & Vegetable Color	—	—	4550	80%	80%
42W		B	—	Bakery Color	—	—	3950	80%	80%
56W		FM	—	Fresh Meat Color	—	—	3550	80%	80%
56W		FT	—	Fruit & Vegetable Color	—	—	6050	80%	80%
56W		B	—	Bakery Color	—	—	5300	80%	80%

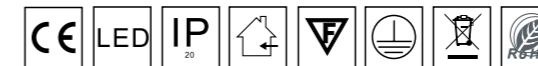
Luminous flux tolerance: ±10%
 Custom order CCT : 2700K,3500K





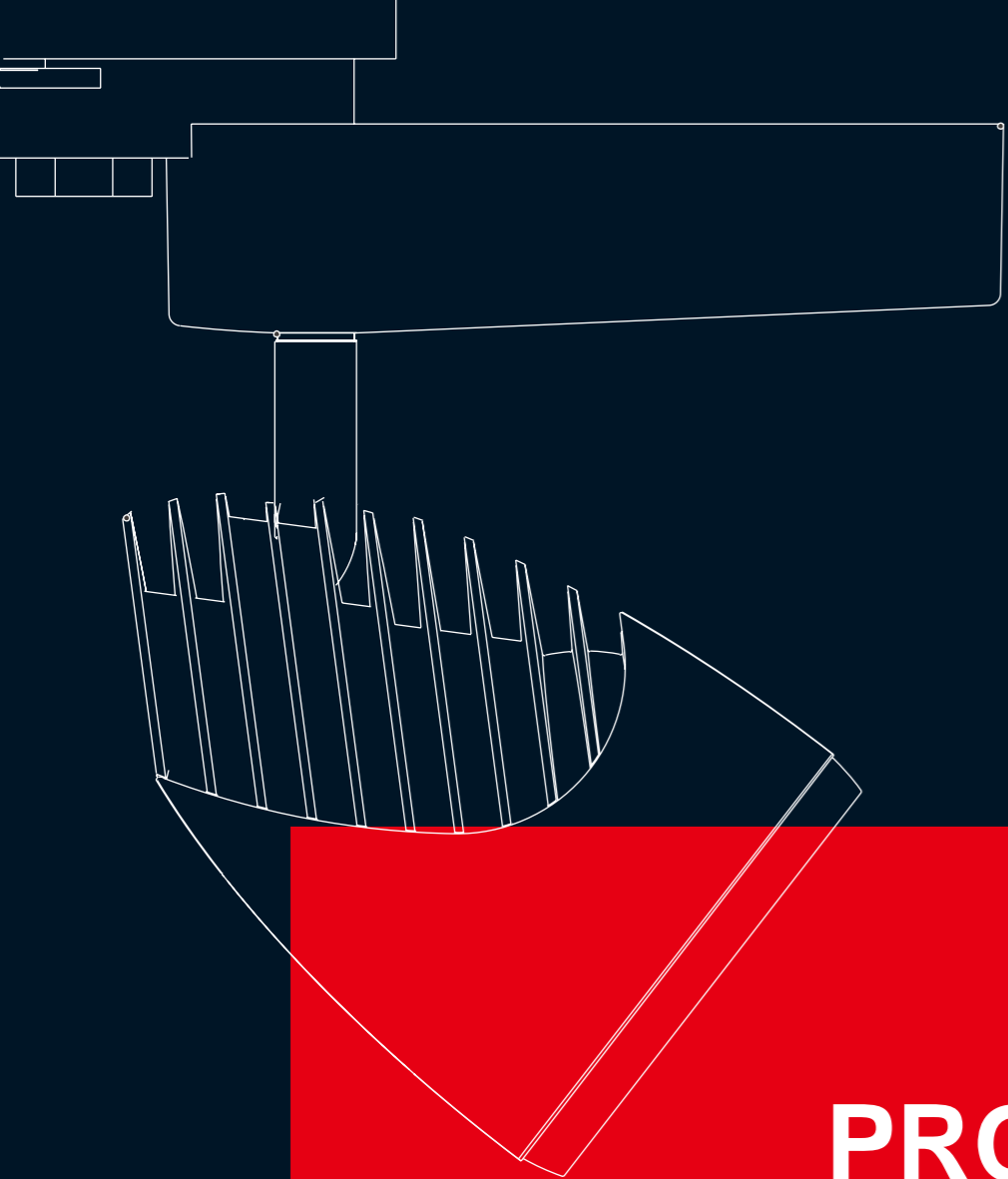
P05

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



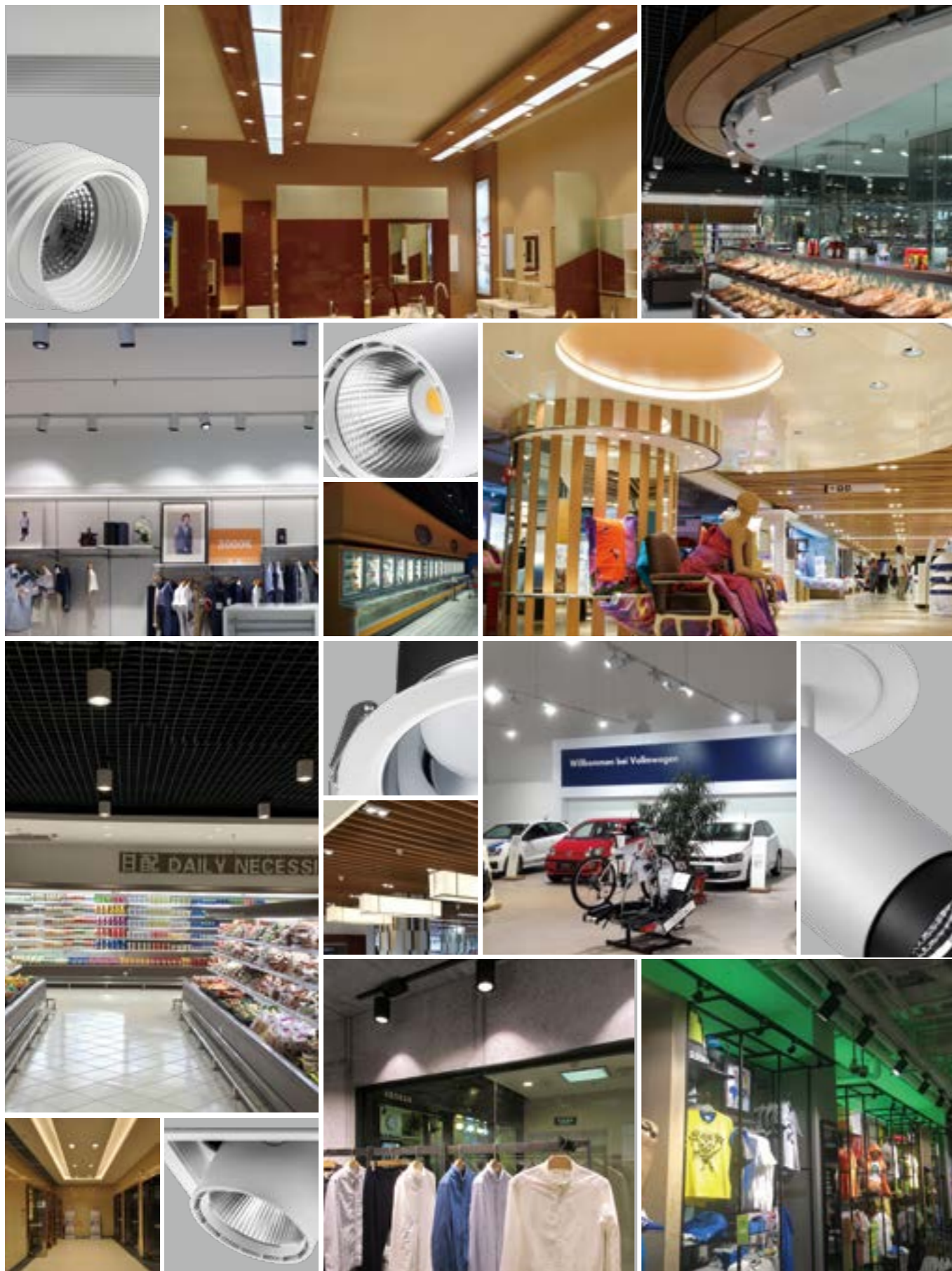
System watt	Lumen category	CCT	CRI (Ra)	Light Color	TM-30-15		luminous flux	Light output efficiency 24°
					R _f	R _g		
42W	5000 lm	3000K	80	Ordinary Color	83	95	4900	88%
42W		4000K	80	Ordinary Color	83	95	5300	88%
42W	Food	FM	—	Fresh Meat Color	—	—	2650	88%
42W		FT	—	Fruit & Vegetable Color	—	—	4550	88%
42W		B	—	Bakery Color	—	—	3950	88%

Luminous flux tolerance: ±10%
 Custom order CCT : 2700K,3500K

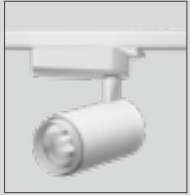


LIGHT
PROJECT
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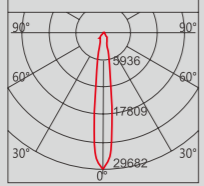




T01

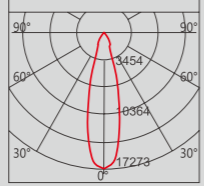


T01 36W 3000K 15°



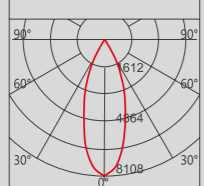
1x15° 36W Dia(m) Dis(m) LLX	
0.3	1 29682
0.5	2 7420
0.8	3 3298
1.0	4 1855
1.3	5 1187

T01 36W 3000K 24°



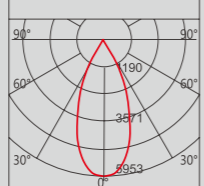
1x24° 36W Dia(m) Dis(m) LLX	
0.4	1 17267
0.8	2 4316
1.2	3 1918
1.5	4 1079
1.9	5 690

T01 36W 3000K 36°



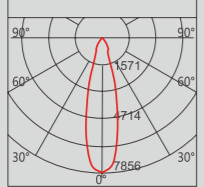
1x36° 36W Dia(m) Dis(m) LLX	
0.6	1 8102
1.2	2 2025
1.9	3 900
2.5	4 506
3.1	5 324

T01 36W 3000K 45°



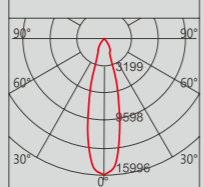
1x45° 36W Dia(m) Dis(m) LLX	
0.8	1 5951
1.6	2 1488
2.4	3 661
3.1	4 372
3.9	5 238

T01 42W-FM 24°



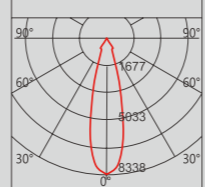
1x24° 42W Dia(m) Dis(m) LLX	
0.4	1 7856
0.9	2 1964
1.3	3 873
1.8	4 491
2.2	5 314

T01 42W-FT 24°



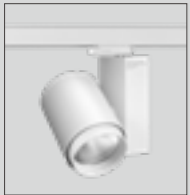
1x24° 42W Dia(m) Dis(m) LLX	
0.4	1 15996
0.8	2 3999
1.3	3 1777
1.7	4 999
2.1	5 639

T01 42W-B 24°

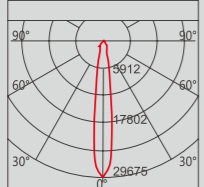


1x24° 42W Dia(m) Dis(m) LLX	
0.4	1 8368
0.8	2 2092
1.3	3 929
1.7	4 523
2.1	5 334

T06

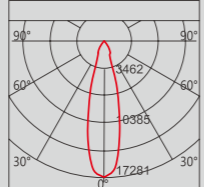


T06 36W 3000K 15°



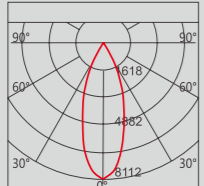
1x15° 36W Dia(m) Dis(m) LLX	
0.3	1 29667
0.5	2 7398
0.8	3 3256
1.0	4 1855
1.3	5 1184

T06 36W 3000K 24°



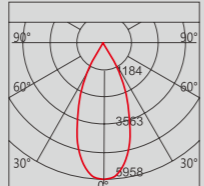
1x24° 36W Dia(m) Dis(m) LLX	
0.4	1 17265
0.8	2 4313
1.2	3 1916
1.5	4 1077
1.9	5 691

T06 36W 3000K 36°



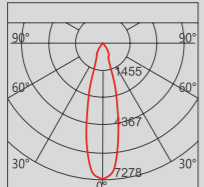
1x36° 36W Dia(m) Dis(m) LLX	
0.6	1 8101
1.2	2 2015
1.9	3 896
2.5	4 502
3.1	5 323

T06 36W 3000K 45°



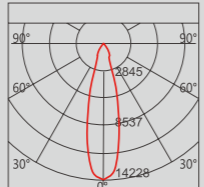
1x45° 36W Dia(m) Dis(m) LLX	
0.8	1 5948
1.6	2 1476
2.4	3 659
3.1	4 370
3.9	5 237

T06 36W-FM 24°



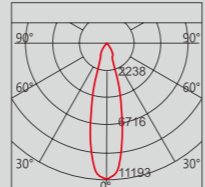
1x24° 36W Dia(m) Dis(m) LLX	
0.4	1 7272
0.9	2 1818
1.3	3 808
1.7	4 454
2.1	5 290

T06 36W-FT 24°



1x24° 36W Dia(m) Dis(m) LLX	
0.4	1 14228
0.8	2 3557
1.3	3 1581
1.7	4 889
2.1	5 569

T06 36W-B 24°

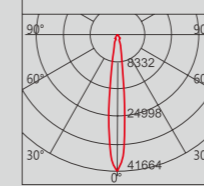


1x24° 36W Dia(m) Dis(m) LLX	
0.4	1 11193
0.8	2 2798
1.2	3 1243
1.6	4 699
2.0	5 447

T07

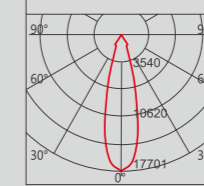


T07 36W 3000K 14°



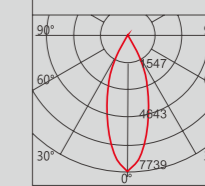
1x14° 36W Dia(m) Dis(m) LLX	
0.2	1 41274
0.5	2 10318
0.7	3 4586
0.9	4 2579
1.1	5 1651

T07 36W 3000K 24°



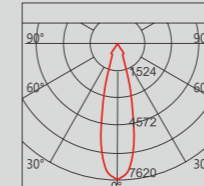
1x24° 36W Dia(m) Dis(m) LLX	
0.4	1 17662
0.8	2 4415
1.2	3 1962
1.5	4 1103
1.9	5 706

T07 36W 3000K 36°



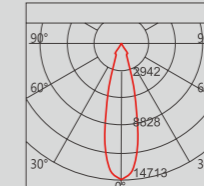
1x36° 36W Dia(m) Dis(m) LLX	
0.6	1 7731
1.3	2 1932
1.9	3 859
2.5	4 483
3.1	5 309

T07 36W-FM 24°



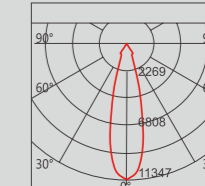
1x24° 36W Dia(m) Dis(m) LLX	
0.4	1 7620
0.8	2 1905
1.3	3 846
1.7	4 476
2.1	5 304

T07 36W-FT 24°



1x24° 36W Dia(m) Dis(m) LLX	
0.4	1 14713
0.8	2 3678
1.2	3 1643
1.6	4 919
2.0	5 588

T07 36W-B 24°

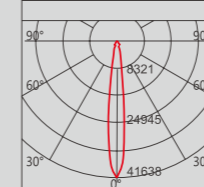


1x24° 36W Dia(m) Dis(m) LLX	
0.4	1 11336
0.8	2 2834
1.2	3 1259
1.6	4 708
2.0	5 453

T09

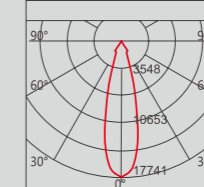


T09 36W 3000K 14°



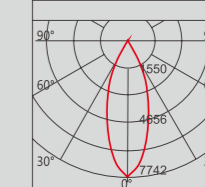
1x14° 36W Dia(m) Dis(m) LLX	
0.2	1 41226
0.5	2 10320
0.7	3 4579
0.9	4 2576
1.1	5 1648

T09 36W 3000K 24°



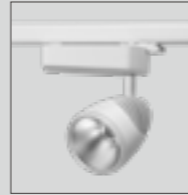
1x24° 36W Dia(m) Dis(m) LLX	
0.4	1 17678
0.8	2 4420
1.2	3 1971
1.5	4 1108
1.9	5 707

T09 36W 3000K 36°

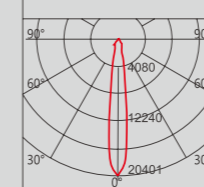


1x36° 36W Dia(m) Dis(m) LLX	
0.6	1 7728
1.3	2 1941
1.9	3 862
2.5	4 486
3.1	5 341

T12

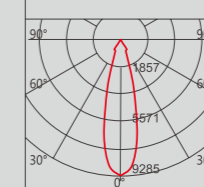


T12 28W 3000K 15°



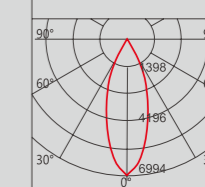
1x15° 28W Dia(m) Dis(m) LLX	
0.3	1 20401
0.6	2 5100
0.8	3 2266
1.1	4 1275
1.4	5 816

T12 28W 3000K 24°



1x24° 28W Dia(m) Dis(m) LLX	
0.5	1 9270
1.0	2 2317
1.5	3 1030
2.0	4 579
2.5	5 370

T12 28W 3000K 36°

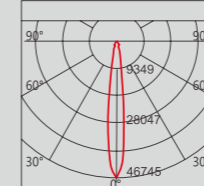


1x36° 28W Dia(m) Dis(m) LLX	
0.6	1 6965
1.2	2 1741
1.8	3 773
2.4	4 435
3.0	5 278

T21

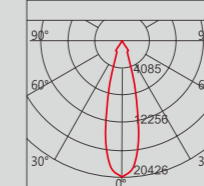


T21 42W 3000K 14°



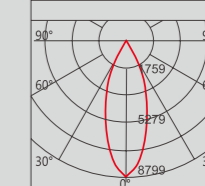
1x14° 42W Dia(m) Dis(m) LLX	
0.2	1 46745
0.5	2 11686
0.7	3 5193
0.9	4 2921
1.1	5 1869

T21 42W 3000K 24°



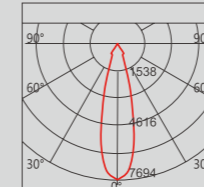
1x24° 42W Dia(m) Dis(m) LLX	
0.4	1 20426
0.8	2 5106
1.1	3 2269
1.5	4 1276
1.9	5 817

T21 42W 3000K 36°



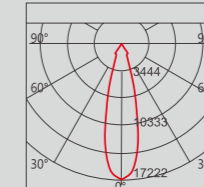
1x36° 42W Dia(m) Dis(m) LLX	
0.6	1 8799
1.3	2 2199
1.9	3 977
2.5	4 550
3.2	5 352

T21 42W-FM 24°



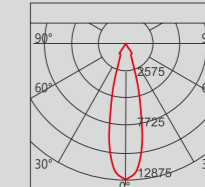
1x24° 42W Dia(m) Dis(m) LLX	
0.4	1 7538
0.8	2 1884
1.2	3 837
1.6	4 471
2.0	5 301

T21 42W-FT 24°



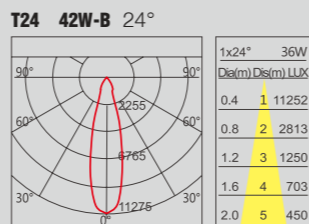
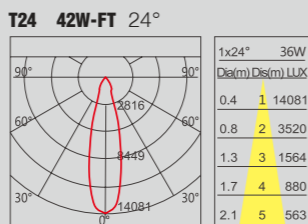
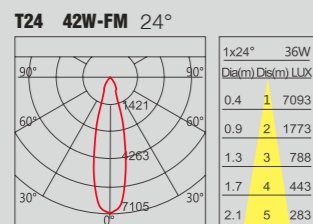
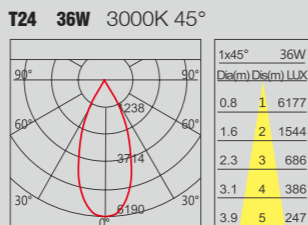
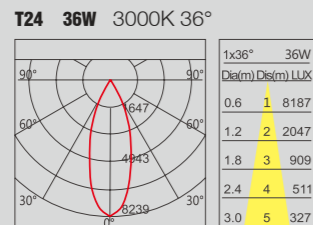
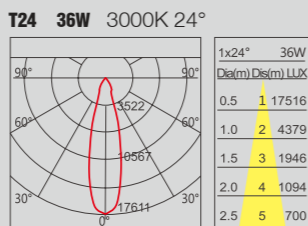
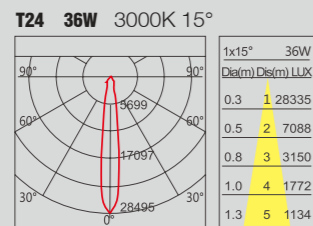
1x24° 42W Dia(m) Dis(m) LLX	
0.4	1 16411
0.8	2 4102
1.2	3 1823
1.6	4 1025
2.0	5 656

T21 42W-B 24°

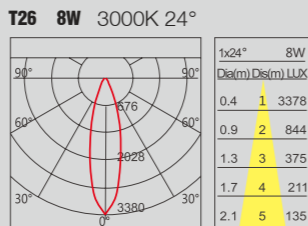
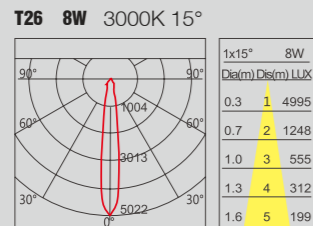


1x24° 42W Dia(m) Dis(m) LLX	
0.4	1 12574
0.8	2 3143
1.2	3 1397
1.6	4 785
2.0	5 503

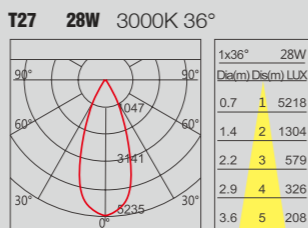
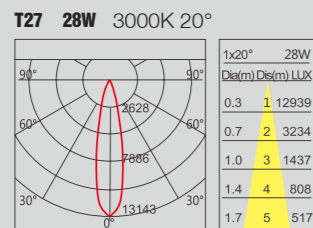
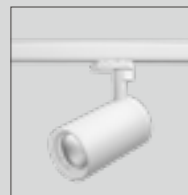
T24



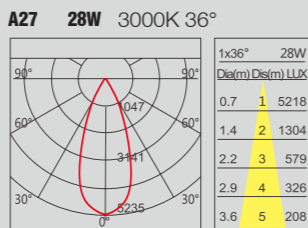
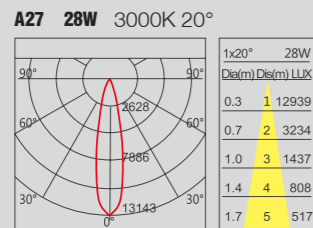
T26



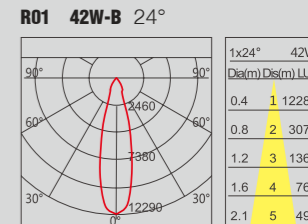
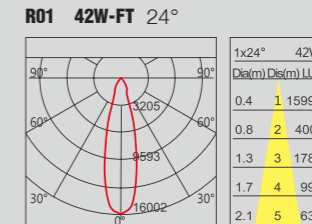
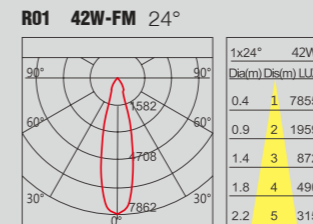
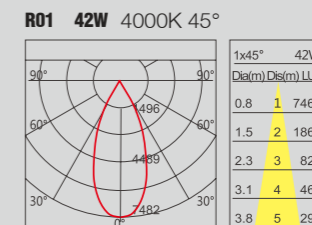
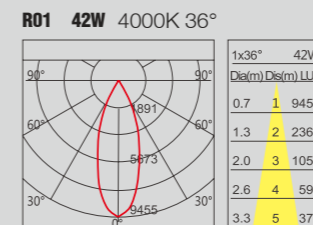
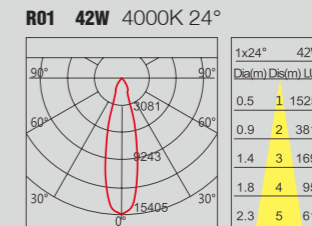
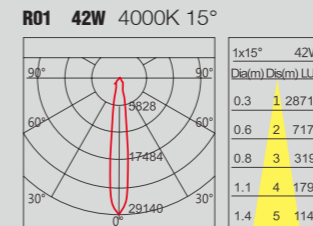
T27



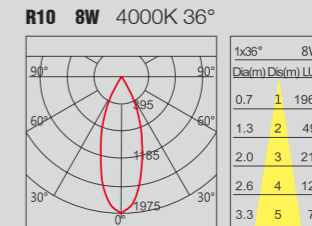
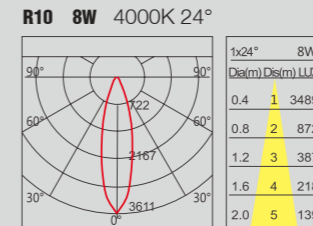
A27



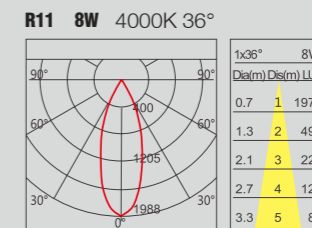
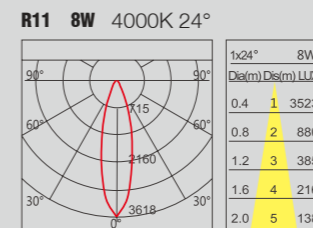
R01



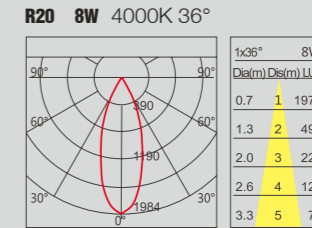
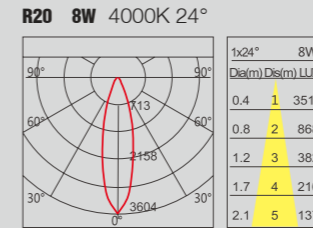
R10



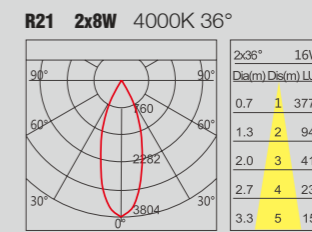
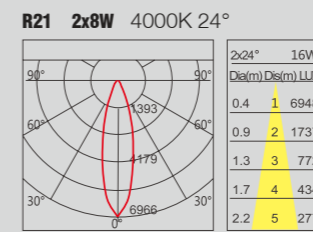
R11

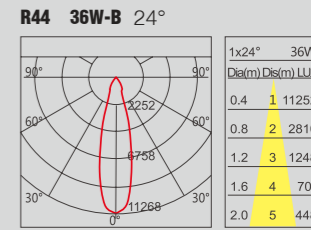
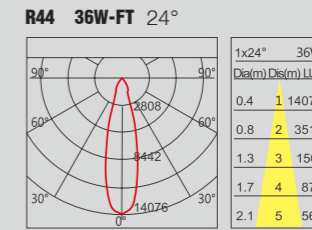
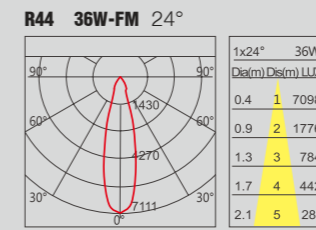
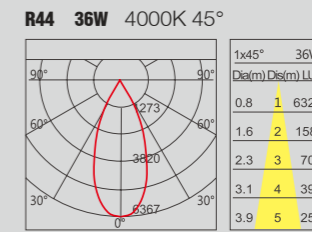
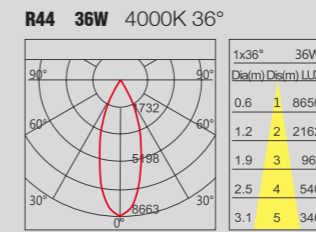
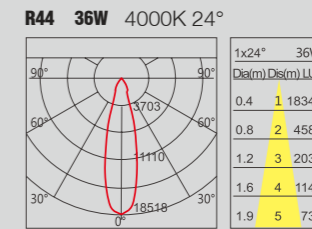
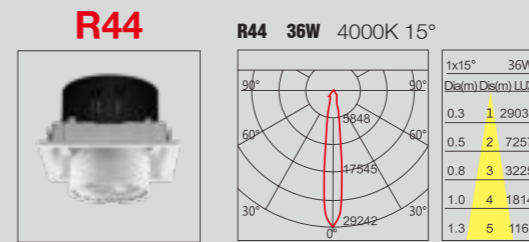
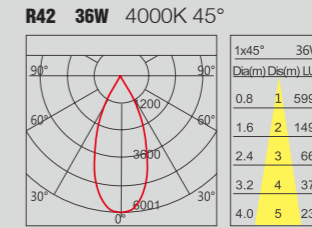
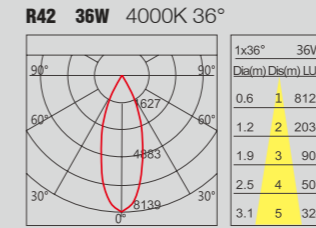
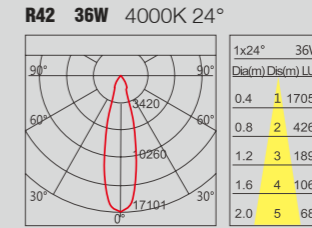
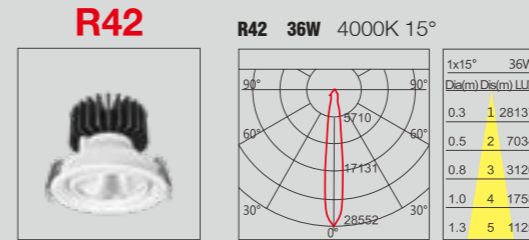
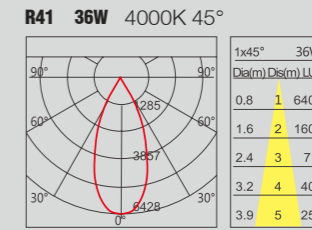
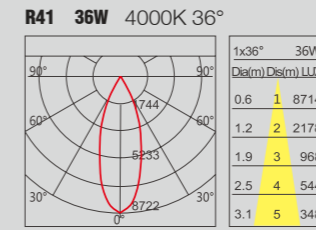
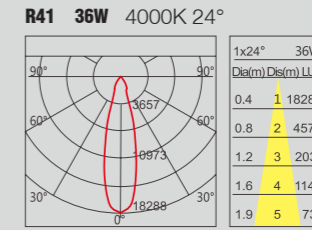
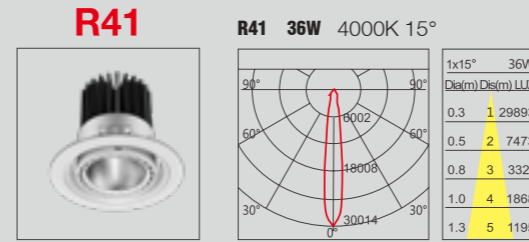
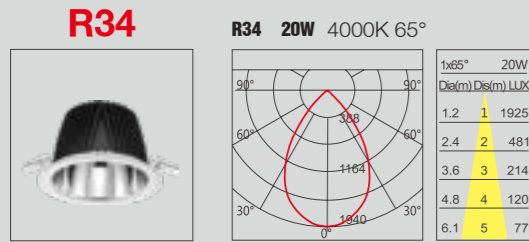
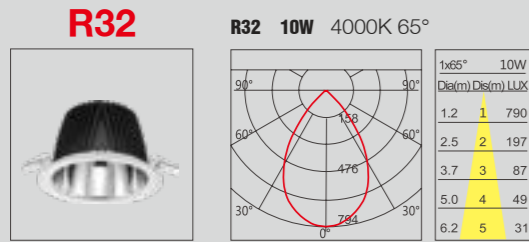
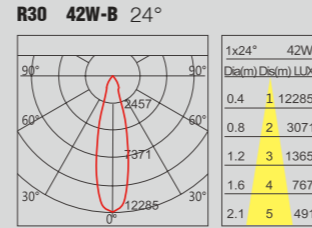
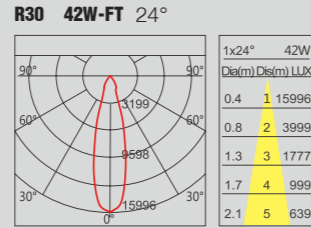
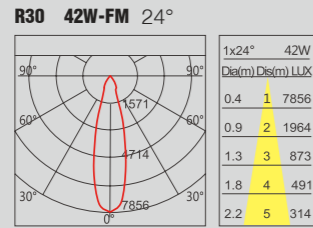
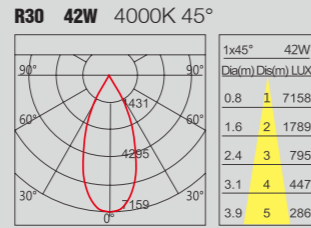
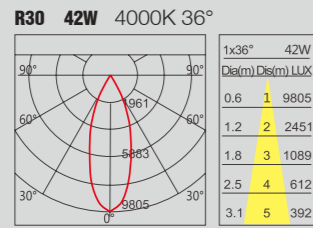
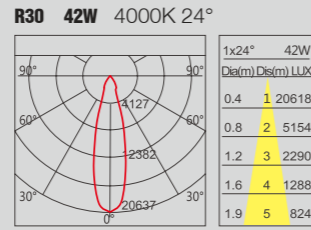
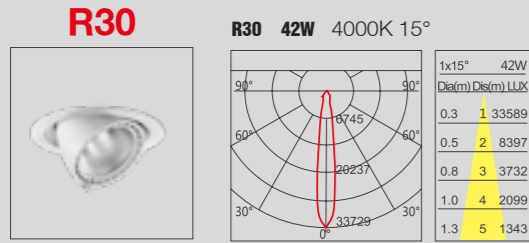
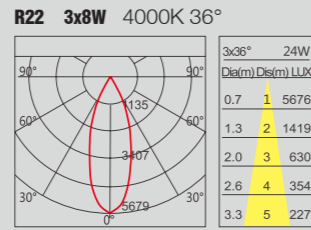
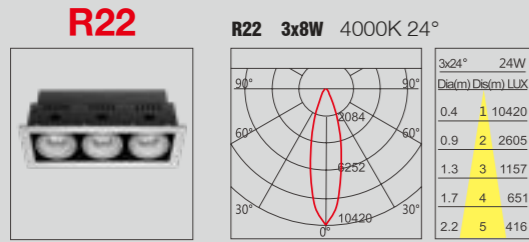


R20



R21

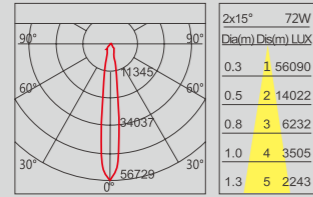




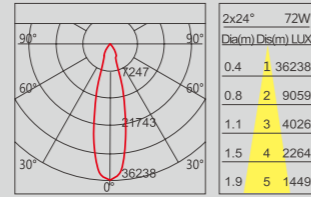
R45



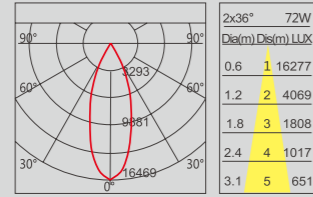
R45 2x36W 4000K 15°



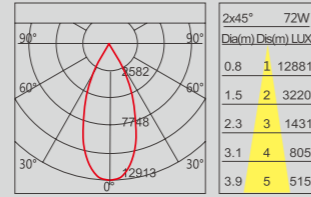
R45 2x36W 4000K 24°



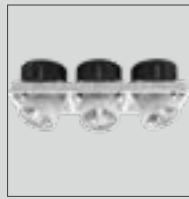
R45 2x36W 4000K 36°



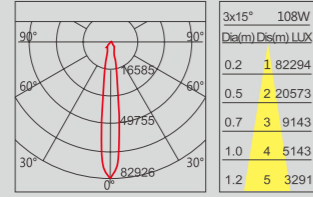
R45 2x36W 4000K 45°



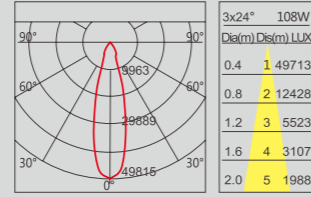
R46



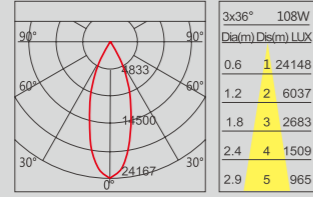
R46 3x36W 4000K 15°



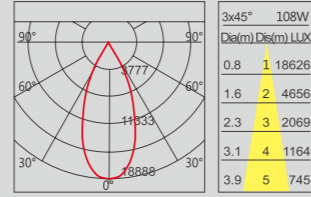
R46 3x36W 4000K 24°



R46 3x36W 4000K 36°



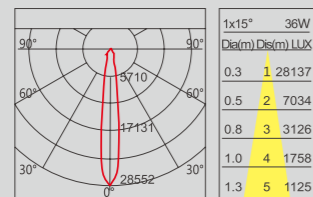
R46 3x36W 4000K 45°



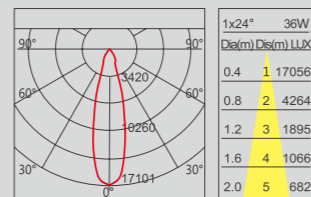
R47



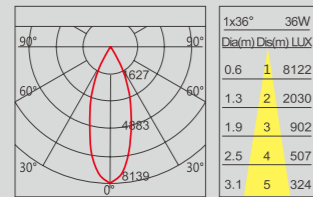
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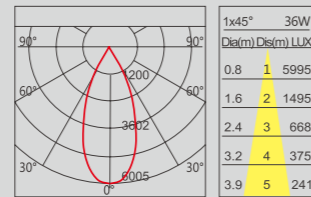
R47 36W 4000K 24°



R47 36W 4000K 36°



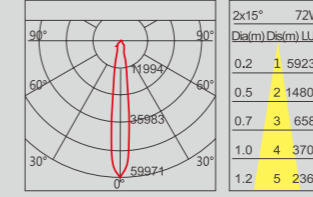
R47 36W 4000K 45°



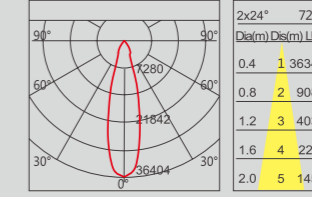
R48



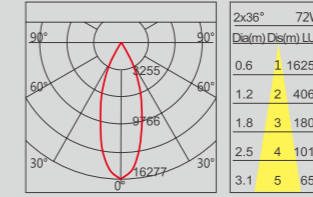
R48 2x36W 4000K 15°



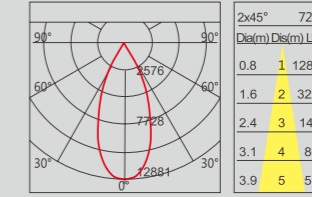
R48 2x36W 4000K 24°



R48 2x36W 4000K 36°



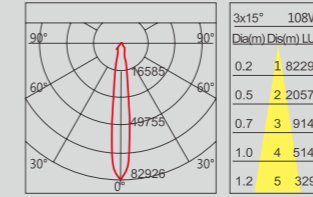
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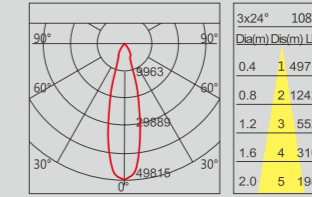
R49



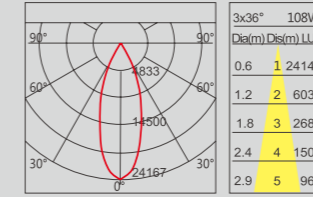
R49 3x36W 4000K 15°



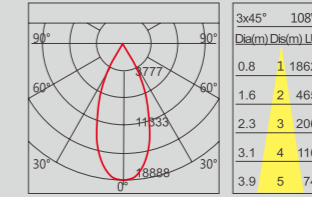
R49 3x36W 4000K 24°



R49 3x36W 4000K 36°



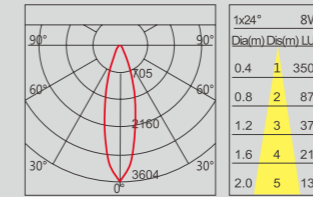
R49 3x36W 4000K 45°



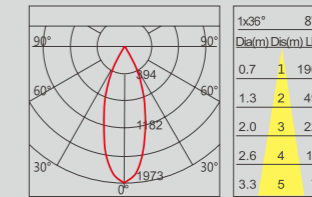
R50



R50 8W 4000K 24°



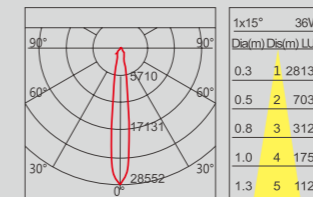
R50 8W 4000K 36°



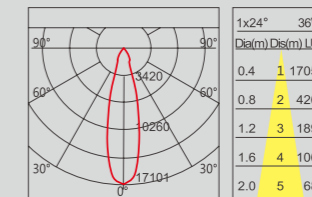
R52



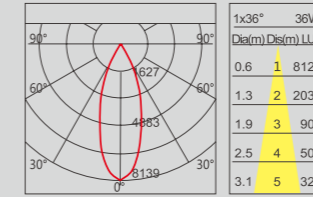
R52 36W 4000K 15°



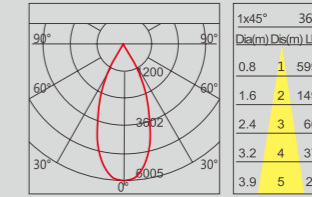
R52 36W 4000K 24°



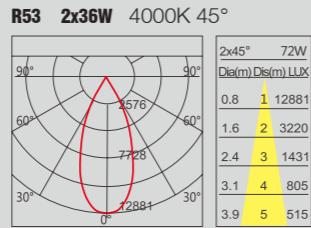
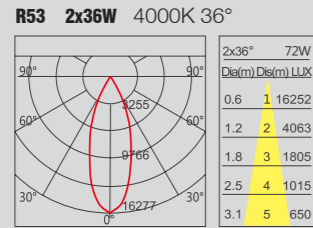
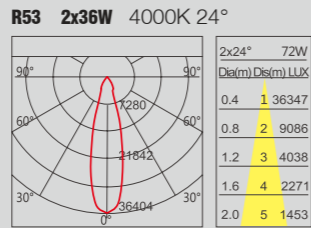
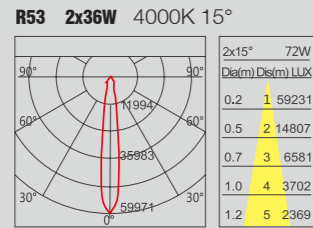
R52 36W 4000K 36°



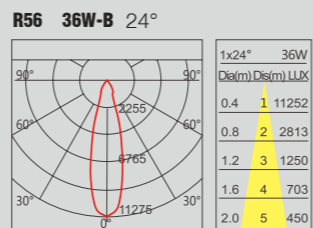
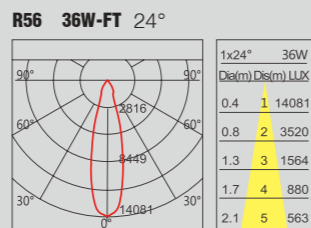
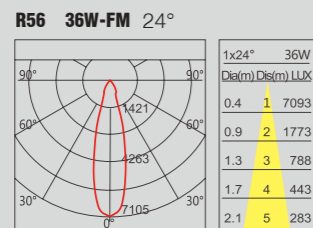
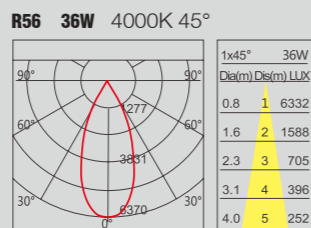
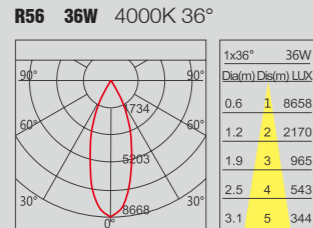
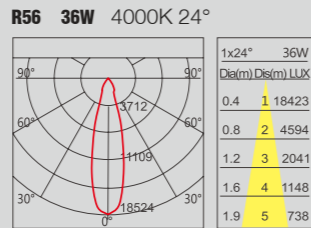
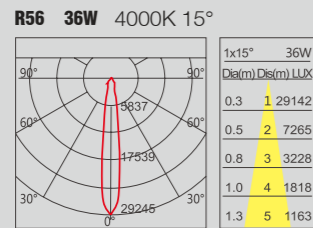
R52 36W 4000K 45°



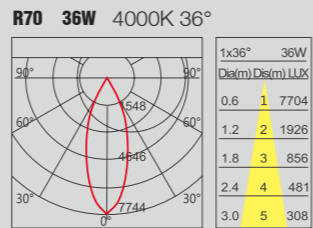
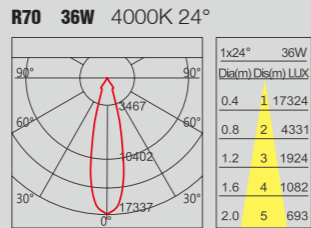
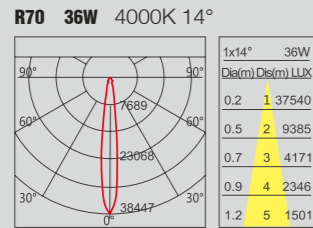
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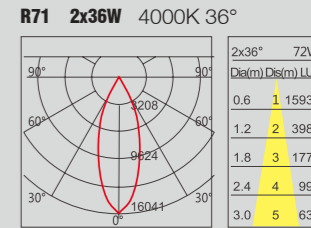
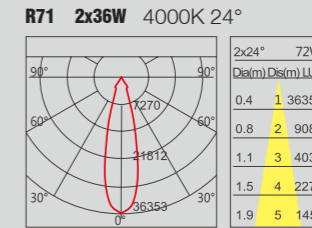
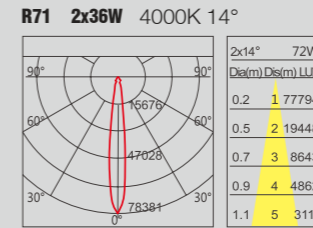
R56



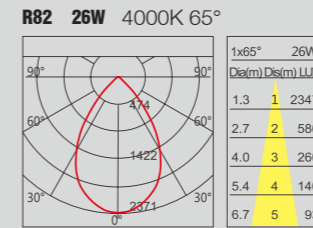
R70



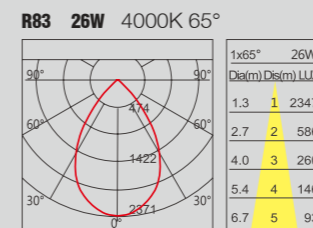
R71



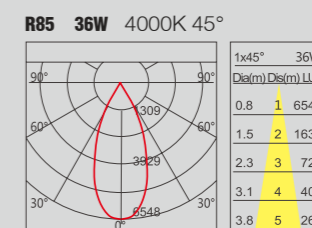
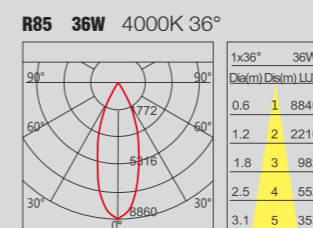
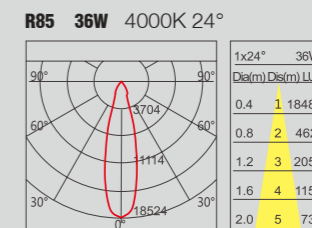
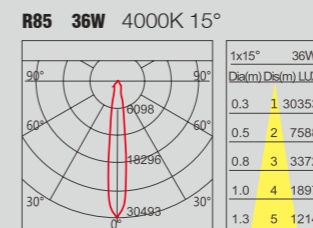
R82



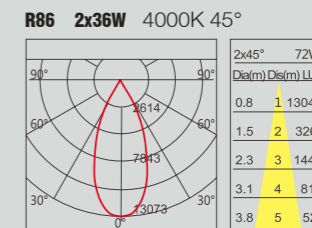
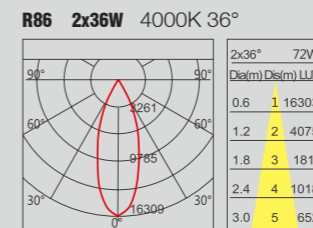
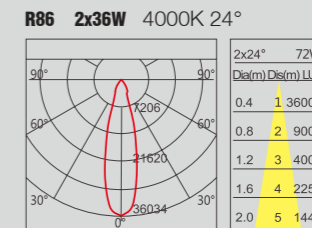
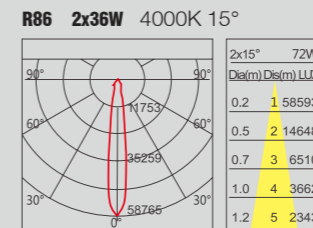
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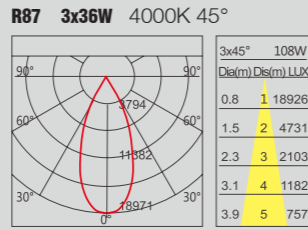
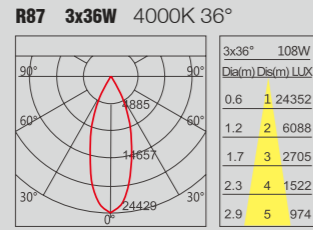
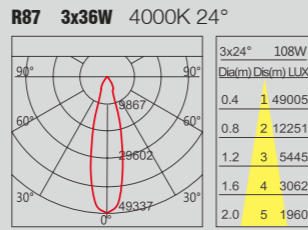
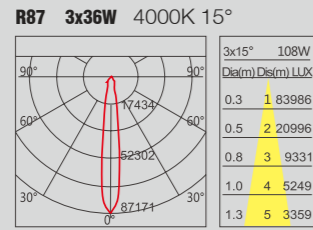
R85



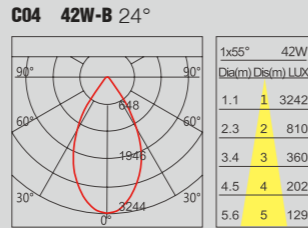
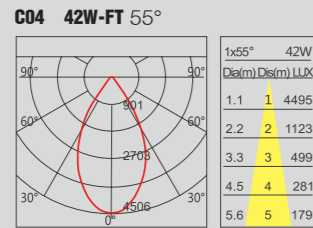
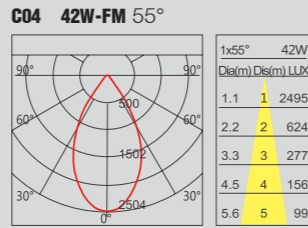
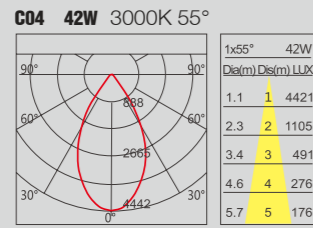
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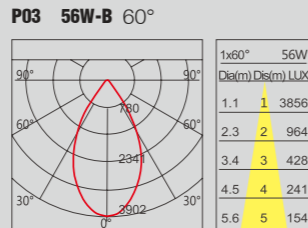
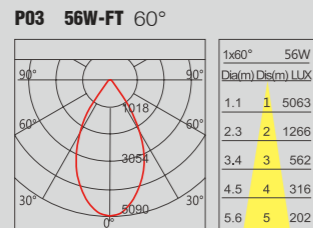
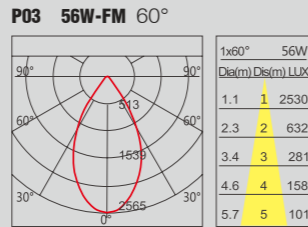
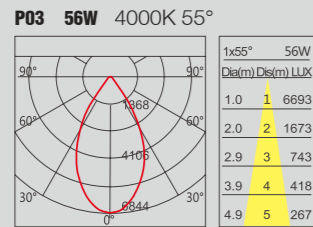
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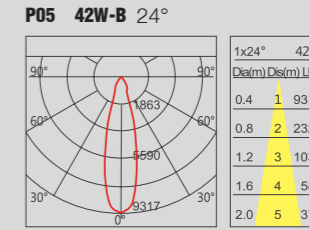
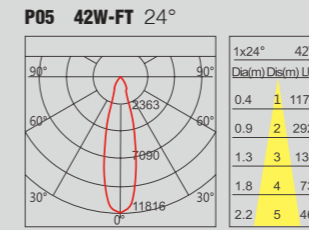
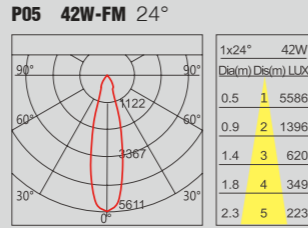
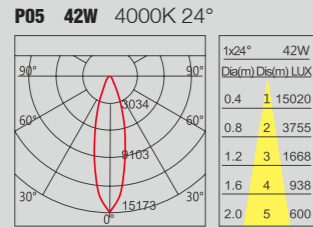
C04



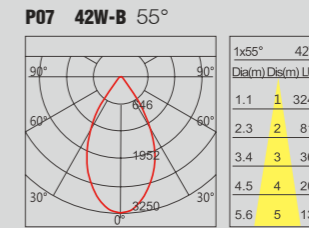
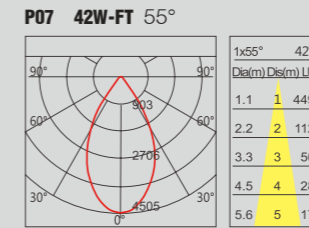
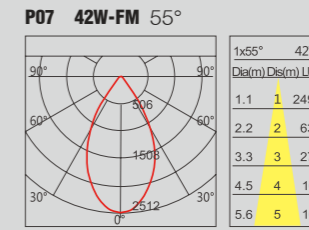
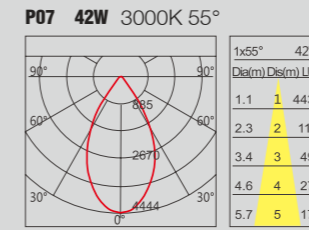
P03



P05



P07



COLOR TEMPERATURE

RENDERING INDEX

2700K



3000K



4000K



5000K



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 afternoon	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

CRI 70



CRI 80



CRI 90



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
Warehouse,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.

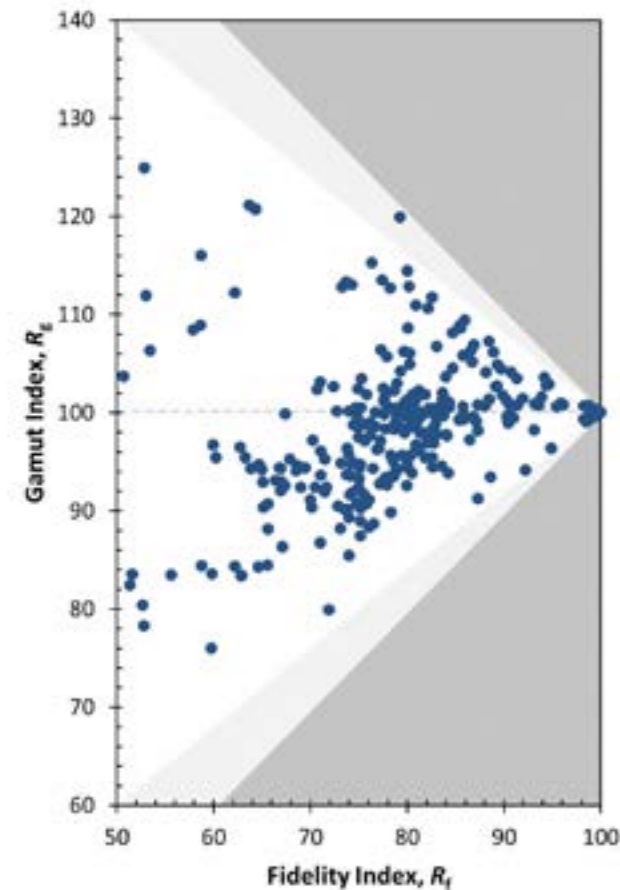
In 2015, The North American IES (Illuminating Engineering Society) has introduced the TM-30-15 system - a new IES method, to evaluate the color rendering of a light source. This method is in accordance with the CIE 13.3 method and offers some optimization. The range of test colors has been expanded from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

The new "reference spectrum similarity index" called Fidelity Index (later Rf), 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 Rf 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 Rg).

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 Rf, und beschreibt im Prinzip denselben Zusammenhang, wie der alte Ra, allerdings nun für mehr und bessere Testfarben. Zusätzlich zur Bewertung der Testlichtquelle, der Fidelity Rf, wird beim TM-30 Verfahren auch der »Farbumfang« berücksichtigt. Dieser drückt sich im Gamut-Index, abgekürzt Rg 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 similaridad de espectro" representado como índice de fidelity(Rf), 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 (Rf), el método TM-30 y la "gama", obtenemos el "índice de gama"(Rg). 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

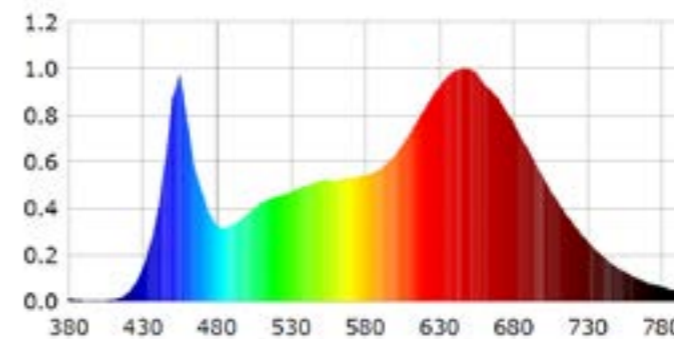
The product range is complex, fresh, healthy and sustainable. GRACION developments present your products in the best fitting light: stable and efficient. Simply fresh.

DE

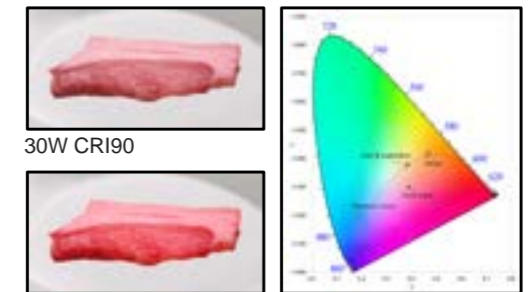
Das Warenangebot wird komplexer, frisch, gesund und nachhaltig. GRACION Entwicklungen präsentieren Ihre Produkte im richtigen Licht, nachhaltig und effizient. Einfach frisch.

ES

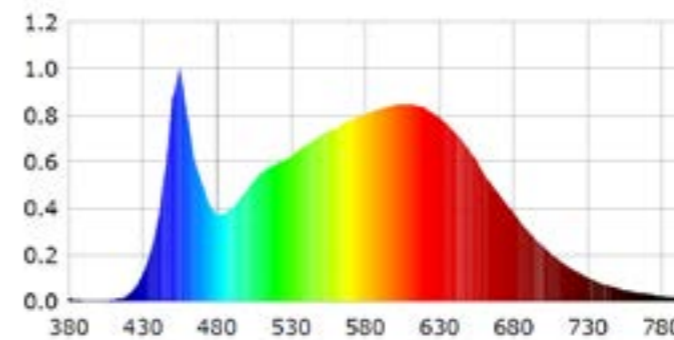
La gama de productos es muy variada, fresca, saludable y sostenible. Desarrollamos productos que aportan la luz adecuada, sostenible y eficiente.



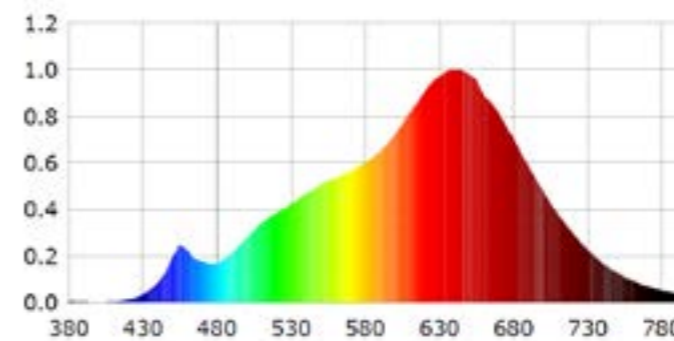
T27-28W Fresh Meat Color



30W Fresh Meat Color



T27-28W Fruit & Vegetable Color



T27-28W Golden Color

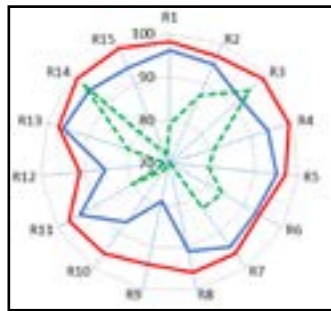


TRUE COLOR AND RICH COLOR

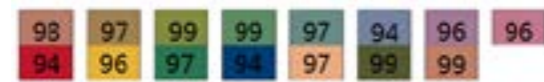
THE DIFFERENT LIGHTING METHODS

CRI

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

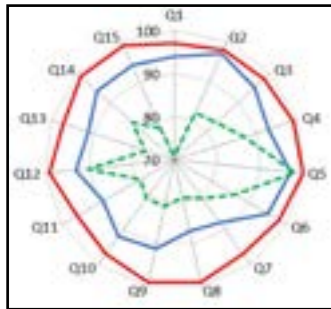


--- Ra 80 3000K
--- TRUE COLOR 3000K
--- RICH COLOR 3000K **CRI:97**



CQS

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

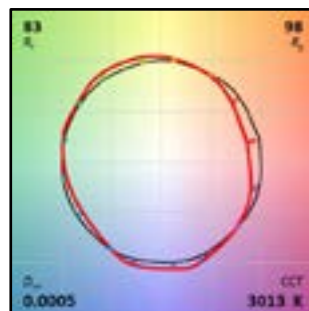


--- Ra 80 3000K
--- TRUE COLOR 3000K
--- RICH COLOR 3000K **CQS:98**

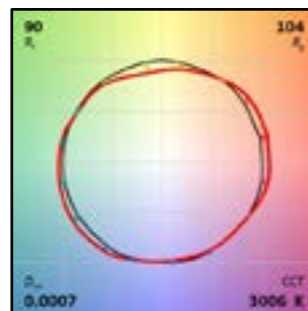


TM-30-15

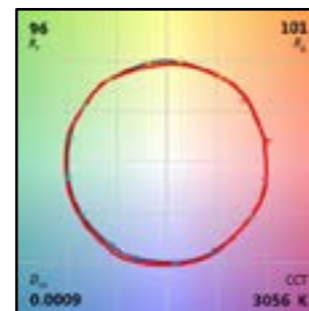
RA80 SERIES, TRUE COLOR SERIES and RICH COLOR SERIES contrast in the TM-30-15 test.



Ra 80 3000K



TRUE COLOR 3000K



RICH COLOR 3000K

RICH COLOR SERIES has excellent color reproduction.

Direct Lighting



Indirect Lighting



Spotlighting



Wall Wash Lighting



Transmission Light



Cabinet lighting



GRACION®

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.

GRACION[®]

GUANGZHOU GRACION LIGHTING CO.,LTD

Address: South Xinghe 5th RD, 1st Industry Area of Taihe,
Baiyun District, Guangzhou, China

Zip code: 510540

E-mail: gracion@gracion.com.cn

www.gracion.com.cn

Gracion Europe GmbH

Kranhaus 1

Im Zollhafen 18

50678 Köln

Tel +49 (0)221 788 03-0

Fax +49 (0)221 788 03-388

www.gracion-europe.com

2LD.Live in Light!

Avda.de los Pirineos 7 Nave 1B

28703.San Sebastian de los Reyes.Madrid

Tel +34 91 112 34 67

Fax +34 91 179 32 14

www.2ld.es