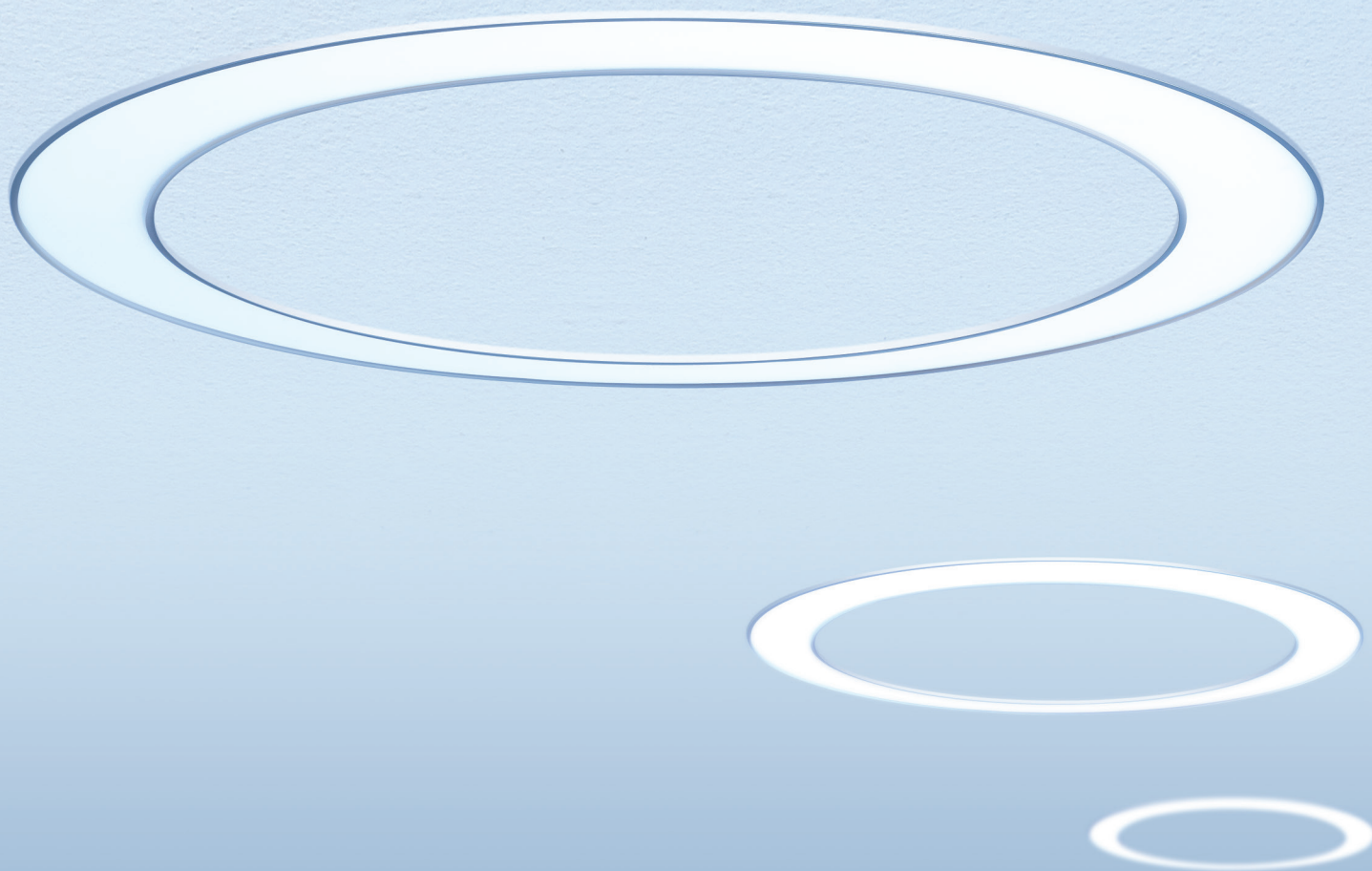


# RINGO STAR-F3



## DE

LED-Einbauleuchte, direktstrahlend für Wand- und Deckenmontage. Microprismenoptik aus Spezialacrylglas, alternativ Opaldiffusor aus satiniertem Acrylglas. Beliebige System-Konfigurationen auf der gesamten Länge perfekt homogen ausgeleuchtet.

Leuchtenkörper aus Aluminium-Strangpress-Profil. Diffusor bis D1500 mm in einem Stück.

LED-Konverter wahlweise schaltbar oder dimmbar (1-10V, DALI, Touch-Dim). Werkseitige Konverterprogrammierung ermöglicht unterschiedliche Lichtstromoptionen.

Standard LED-Farbtemperatur 2700K, 3000K und 4000K. Auf Wunsch 2200K, 3500K, 5000K, 6500K. Enge Farbtoleranz MacAdam 3. Farbwiedergabe  $Ra \geq 80$ , auf Anfrage  $Ra > 90$  möglich.

Hohe Wartungs- und Installationsfreundlichkeit durch optimierten Zugang zu LED-Platinen und -Konverter.

Lichtstromrückgang auf 80% des Ursprungswertes bei 50000h (L80B10 bei 25°C und max. Medium-Power). 5 Jahre Garantie auf LED-Module und LED-Betriebsgeräte.

Beachten Sie die Übersicht `optionale Ausführungen`

## EN

LED recessed mounted light system with direct only light distribution for walls and ceiling. Micro-prismatic screen for glare-free illumination, optional opal diffuser for enhanced light transmission. Perfect uniform illumination on the entire length for any system configuration.

Luminaire body made of aluminium-profile. Diffuser up to D'1500 mm without visible seam.

LED drivers which can optionally be switched or dimmed (1-10V, DALI, Touch-Dim). Factory-set drivers enable different output levels.

Standard LED colour temperature 2700K, 3000K and 4000K. On request 2200K, 3500K, 5000K, 6500K. MacAdam 3 step binning. Colour rendering  $CRI \geq 80$ ,  $CRI > 90$  on request.

Direct access to integral drivers and LED circuit boards ensures hassle-free installation and maintenance.

80% of initial output for 50000 operating hours (L80B10 at 25°C and max. Medium-Power). 5 year warranty on all LED boards and LED drivers.

Refer to "options" overview

## FR

Plafonnier LED encastré, éclairage direct. Diffuseur micro-prismatique en verre acrylique, en option: diffuseur opale en verre acrylique satiné. Éclairage parfaitement homogène sur toute la longueur pour quelque configuration.

Corps du luminaire en aluminium extrudé. Diffuseur en une pièce jusqu'à un diamètre de 1500mm.

Convertisseur LED au choix: commutable ou graduable (1-10V, DALI, Touch-Dim). Programmation en usine offrant différentes options de flux lumineux.

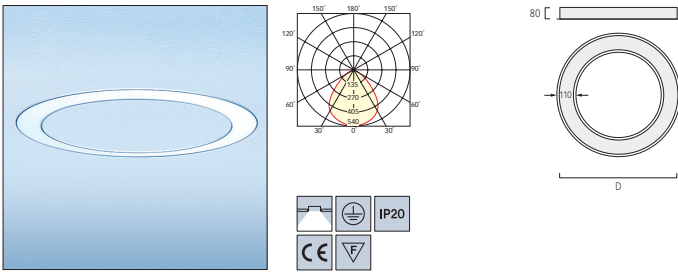
Température de couleur LED standard 2700K, 3000K ou 4000K. Sur demande: 2200K, 3500K, 5000K, 6500K (MacAdam 3). Rendu de couleur  $IRC \geq 80$ , sur demande  $IRC > 90$ .

Accès direct aux convertisseurs et platines LED assurant l'installation et l'entretien sans outil.

50 000 heures de fonctionnement avec une utilisation à 80% de la puissance (L90B10 à 25°C et max. Medium-Power). 5 ans de garantie sur tous les modules LED et convertisseurs LED.

Voir les différentes options

RINGO STAR-F3 / FRAME / MICROPRISMATIC

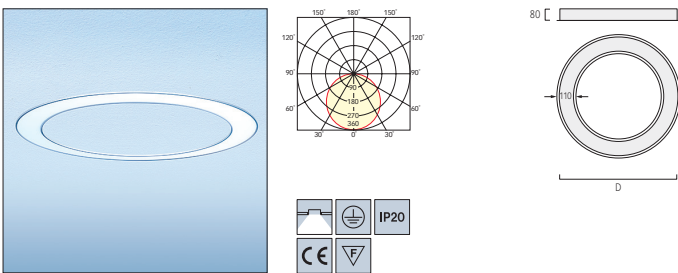


D	LUMEN/WATT	CODE	CODE	KG
LED - MEDIUM POWER		SILVER	WHITE	
610	2960lm/39W*	RF3ASE-###M-D610	RF3AWE-###M-D610	10,7
910	5770lm/78W*	RF3ASE-###M-D910	RF3AWE-###M-D910	13,7
1210	8742lm/113W*	RF3ASE-###M-D1210	RF3AWE-###M-D1210	17,1
1510	10820lm/142W*	RF3ASE-###M-D1510	RF3AWE-###M-D1510	21,6
2010	14425lm/188W*	RF3ASE-###M-D2010	RF3AWE-###M-D2010	23,0
2510	19226lm/236W*	RF3ASE-###M-D2510	RF3AWE-###M-D2510	29,0
3010	23663lm/290W*	RF3ASE-###M-D3010	RF3AWE-###M-D3010	35,0
3510	28100lm/344W*	RF3ASE-###M-D3510	RF3AWE-###M-D3510	40,0
4010	29580lm/362W*	RF3ASE-###M-D4010	RF3AWE-###M-D4010	46,0
5010	38453lm/470W*	RF3ASE-###M-D5010	RF3AWE-###M-D5010	58,0
6010	47327lm/577W*	RF3ASE-###M-D6010	RF3AWE-###M-D6010	69,0
7010	53242lm/649W*	RF3ASE-###M-D7010	RF3AWE-###M-D7010	81,0
8010	62116lm/757W*	RF3ASE-###M-D8010	RF3AWE-###M-D8010	96,0

<b>CONTROL</b>	<b>E:</b> SWITCHABLE, <b>D:</b> DIM 1-10V, <b>L:</b> DIM DALI, <b>H:</b> TOUCH-DIM
<b>LED COLOUR TEMPERATURE ###</b>	<b>827:</b> 2700K, <b>830:</b> 3000K, <b>840:</b> 4000K

\* Leuchtenlichtstrom bei 4000K | Luminaire luminous flux at 4000K | Flux de luminaire à 4000K

RINGO STAR-F3 / FRAME / OPAL

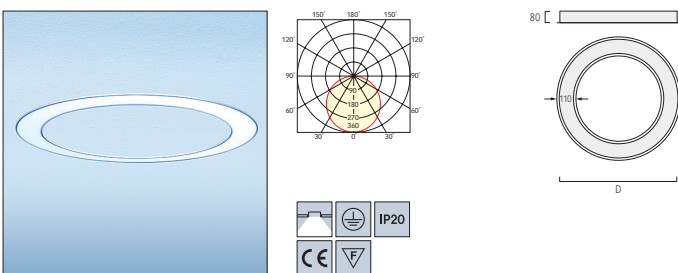


D	LUMEN/WATT	CODE	CODE	KG
LED - MEDIUM POWER		SILVER	WHITE	
610	3495lm/39W*	RF3OSE-###M-D610	RF3OWE-###M-D610	10,7
910	6819lm/78W*	RF3OSE-###M-D910	RF3OWE-###M-D910	13,7
1210	10332lm/113W*	RF3OSE-###M-D1210	RF3OWE-###M-D1210	17,1
1510	12786lm/142W*	RF3OSE-###M-D1510	RF3OWE-###M-D1510	21,6
2010	17047lm/188W*	RF3OSE-###M-D2010	RF3OWE-###M-D2010	23,0
2510	19576lm/236W*	RF3OSE-###M-D2510	RF3OWE-###M-D2510	29,0
3010	24093lm/290W*	RF3OSE-###M-D3010	RF3OWE-###M-D3010	35,0
3510	28611lm/344W*	RF3OSE-###M-D3510	RF3OWE-###M-D3510	40,0
4010	30116lm/362W*	RF3OSE-###M-D4010	RF3OWE-###M-D4010	46,0
5010	39152lm/470W*	RF3OSE-###M-D5010	RF3OWE-###M-D5010	58,0
6010	48187lm/577W*	RF3OSE-###M-D6010	RF3OWE-###M-D6010	69,0
7010	54210lm/649W*	RF3OSE-###M-D7010	RF3OWE-###M-D7010	81,0
8010	63245lm/757W*	RF3OSE-###M-D8010	RF3OWE-###M-D8010	96,0

<b>CONTROL</b>	<b>E:</b> SWITCHABLE, <b>D:</b> DIM 1-10V, <b>L:</b> DIM DALI, <b>H:</b> TOUCH-DIM
<b>LED COLOUR TEMPERATURE ###</b>	<b>827:</b> 2700K, <b>830:</b> 3000K, <b>840:</b> 4000K

\* Leuchtenlichtstrom bei 4000K | Luminaire luminous flux at 4000K | Flux de luminaire à 4000K

RINGO STAR-F3 / FRAME / OPAL / RGBW

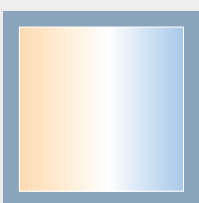


D	LUMEN/WATT	TOTAL	CODE	CODE	KG
LED - MEDIUM POWER			SILVER	WHITE	
610	1612lm/24W*	51W	RF3OSL-RGBW-D610	RF3OWL-RGBW-D610	10,7
910	2821lm/39W*	85W	RF3OSL-RGBW-D910	RF3OWL-RGBW-D910	13,7
1210	3627lm/50W*	108W	RF3OSL-RGBW-D1210	RF3OWL-RGBW-D1210	17,1
1510	4836lm/65W*	141W	RF3OSL-RGBW-D1510	RF3OWL-RGBW-D1510	21,6
2010	6448lm/86W*	187W	RF3OSL-RGBW-D2010	RF3OWL-RGBW-D2010	23,0
2510	8060lm/107W*	232W	RF3OSL-RGBW-D2510	RF3OWL-RGBW-D2510	29,0
3010	9672lm/128W*	277W	RF3OSL-RGBW-D3010	RF3OWL-RGBW-D3010	35,0
3510	11284lm/149W*	323W	RF3OSL-RGBW-D3510	RF3OWL-RGBW-D3510	40,0
4010	12896lm/170W*	368W	RF3OSL-RGBW-D4010	RF3OWL-RGBW-D4010	46,0
5010	16120lm/212W*	458W	RF3OSL-RGBW-D5010	RF3OWL-RGBW-D5010	58,0
6010	20956lm/274W*	594W	RF3OSL-RGBW-D6010	RF3OWL-RGBW-D6010	69,0
7010	24180lm/316W*	685W	RF3OSL-RGBW-D7010	RF3OWL-RGBW-D7010	81,0
8010	27404lm/358W*	775W	RF3OSL-RGBW-D8010	RF3OWL-RGBW-D8010	96,0

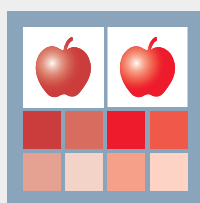
<b>CONTROL</b>	<b>L:</b> DIM DALI
<b>LED COLOUR TEMPERATURE ###</b>	<b>827:</b> 2700K, <b>830:</b> 3000K, <b>840:</b> 4000K

\* Leuchtenlichtstrom bei 4000K | Luminaire luminous flux at 4000K | Flux de luminaire à 4000K

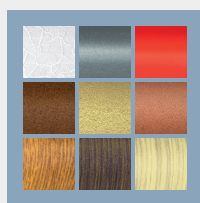
OPTIONAL



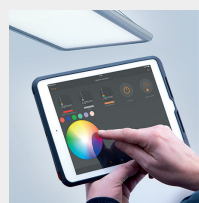
ALTERNATIVE COLOUR TEMPERATURES:  
2200K/ 3500K/ 6500K



LEDS WITH HIGHER CRI  
Ra>90



FURTHER SELECTED SURFACE DESIGNS:  
SEE PAGE 15



BLUETOOTH MODULE FOR WIRELESS CONTROL



EMERGENCY MODULE WITH 3 HOUR BATTERY



RADAR SENSOR FOR HIGH FREQUENCY MOTION CONTROL