



**LED**

Norms: EN 60598-1, EN 60598-2-2



**PRODUCT DESCRIPTION**

**Areas of Application:** Commercial and Business areas, Public buildings, Housing, Offices, Hotel and Restaurant services, Art and Culture spaces.

**Mounting:** Ceiling recessed.

**Light Distribution:** Direct.

**Light Source:** LED 4000K, CRI>90, 50.000h life (@L80, B10, Ta 25 C).

**Control Gear:** LED driver, 220-240VAC-50/60Hz.

**Materials:** Body: Aluminium.

**Surface Finish:** Powder coated.

PB - Polished aluminium reflector | 25 Beam angle

	LED	UGR	W	Lm	mA	V	Lm/W	η(%)	AxB (mm)		Kg	HF	DALI
		≤10	9	1000	205	33	104	94	Ø136x121	Ø132	0,4	90019.L109.E0025	90019.L109.H0025
		≤10	14	1500	325	34	103	93	Ø136x121	Ø132	0,5	90019.L111.E0025	90019.L111.H0025

PB - Polished aluminium reflector | 35 Beam angle

	LED	UGR	W	Lm	mA	V	Lm/W	η(%)	AxB (mm)		Kg	HF	DALI
		≤16	9	1000	205	33	101	91	Ø136x111	Ø132	0,4	90019.L109.E0035	90019.L109.H0035
		≤16	14	1500	325	34	100	90	Ø136x111	Ø132	0,5	90019.L111.E0035	90019.L111.H0035

PB - Polished aluminium reflector | 60 Beam angle

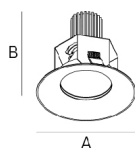
	LED	UGR	W	Lm	mA	V	Lm/W	η(%)	AxB (mm)		Kg	HF	DALI
		≤19	9	1000	205	33	101	91	Ø136x101	Ø132	0,4	90019.L109.E0060	90019.L109.H0060
		≤19	14	1500	325	34	102	92	Ø136x101	Ø132	0,5	90019.L111.E0060	90019.L111.H0060

**COLOUR / FINISH**

Code	Description
W	White
G	Grey
B	Black

• Other colours under request.

**DIMENSIONS**

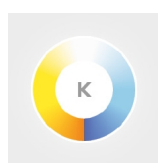


Example code for order: 90019.L111.H0060 (DALI) + W (COLOUR/FINISH) + 3000 + 902 (OPTIONS)

We reserve the right to make technical changes without prior notice. Electrical/Optical data are subjected to a tolerance of +/-10%.

**OPTIONS**

**Colour temperature**



3000K

Order code  
**3000**

**Glass / Diffuser**



Transparent glass  
Opal glass  
DAM - Microprismatic diffuser

Order code  
**902**  
**903**  
**904**

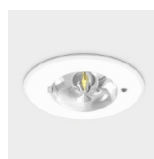
**Safety cable**



Steel safety cable

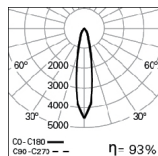
Order code  
**955000**

**Emergency unit**

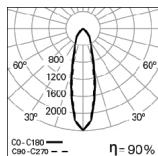


Option supplied under request.

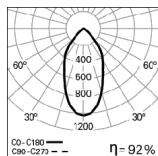
**PHOTOMETRY**



**FESAL 14W**  
**PB 4000K 25°**



**FESAL 14W**  
**PB 4000K 35°**



**FESAL 14W**  
**PB 4000K 60°**

**TO SPECIFY:**

Circular LED recessed downlight. Body made of aluminium and high performance aluminum reflectors with beam angles of 25 , 35 or 60 . Standard total luminous flux of 1000 or 1500 lm, 4000K, CRI>90 and 50.000h lifetime (@L80, B10, Ta 25 C) and passive cooling of the LED through improved heat sink. Optional DALI dimmable driver, IP20/54 through 4mm opal or transparent tempered glass or microprismatic diffuser. Also available as 3000K. For ceiling thicknesses of 1 to 20mm. - as Roxo Lighting FESAL