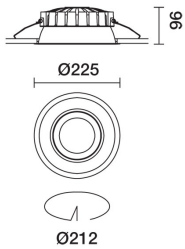
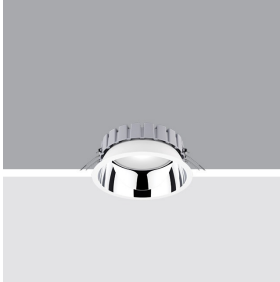


Last information update: April 2025

Product configuration: R460

R460: Ø 225 - 4000K - CRI80 - UGR<19

**Product code**

R460: Ø 225 - 4000K - CRI80 - UGR<19

Technical description

Round fixed luminaire designed to use LED lamps with C.o.B. technology. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Dissipater made of painted grey die-cast aluminium. Product complete with LED lamp in neutral white colour tone (4000K) and microfilm that is able to guarantee a light beam of UGR<19 L<3000 cd/m², which is ideal for environments with video terminals.

Installation

Recessed using torsion springs which allow easy installation in false ceilings with thicknesses ranging from 1 mm to 20 mm.

Colour

White / Aluminium (39)

Weight (Kg)

1.03

Mounting

ceiling surface

Wiring

Product complete with DALI components

Complies with EN60598-1 and pertinent regulations



IP20

IP54

On the visible part of
the product once installed**Technical data**

lm system:	2448	Colour temperature [K]:	4000
W system:	19.5	MacAdam Step:	2
lm source:	2750	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	16	Lamp code:	LED
Luminous efficiency (lm/W, real value):	125.5	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	89	Control:	DALI-2
CRI (minimum):	80		

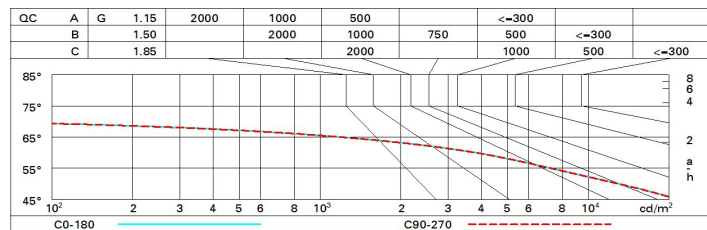
Polar

Imax=1729 cd		CIE		Lux			
	90°	nL 0.89		h	d	Em	E _{max}
	180°	82-99-100-100-89		1	1.6	1240	1729
	90°	UGR 18.8-18.8		2	3.1	310	432
	1500	DIN A 61		3	4.7	138	192
	0°	UTE 0.89B+0.00T		4	6.3	77	108
α = 76°		F*1=818					
		F*1+F*2=992					
		F*1+F*2+F*3=1000					
		CIBSE LG3 L<1500 cd/m ² at 65°					
		UGR<19 L<1500 cd/mq @ 65°					

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	67	63	59	66	62	62	58	65
1.0	78	72	68	66	71	68	67	63	71
1.5	84	80	77	74	79	76	75	72	81
2.0	88	85	82	80	83	81	80	77	87
2.5	90	87	86	84	86	84	83	80	90
3.0	91	89	88	86	88	86	85	82	93
4.0	93	91	90	89	89	88	87	84	95
5.0	93	92	91	90	90	90	88	85	96

Luminance curve limit



UGR diagram

Corrected UGR values (at 2750 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	19.3	20.1	19.6	20.3	20.6	19.3	20.1	19.6	20.3	20.6
	3H	19.2	19.9	19.5	20.2	20.4	19.2	19.9	19.6	20.2	20.5
	4H	19.1	19.8	19.5	20.1	20.4	19.2	19.8	19.5	20.1	20.4
	6H	19.0	19.6	19.4	19.9	20.3	19.1	19.7	19.5	20.0	20.3
	8H	19.0	19.6	19.4	19.9	20.2	19.1	19.6	19.4	20.0	20.3
	12H	19.0	19.5	19.3	19.8	20.2	19.0	19.6	19.4	19.9	20.3
4H	2H	19.2	19.8	19.5	20.1	20.4	19.1	19.8	19.5	20.1	20.4
	3H	19.0	19.6	19.4	19.9	20.3	19.0	19.6	19.4	19.9	20.3
	4H	18.9	19.4	19.3	19.8	20.2	18.9	19.4	19.3	19.8	20.2
	6H	18.9	19.3	19.3	19.7	20.1	18.9	19.3	19.3	19.7	20.1
	8H	18.8	19.2	19.3	19.6	20.0	18.8	19.2	19.3	19.6	20.0
	12H	18.8	19.1	19.2	19.5	20.0	18.8	19.1	19.2	19.5	20.0
8H	4H	18.8	19.2	19.3	19.6	20.0	18.8	19.2	19.3	19.6	20.0
	6H	18.7	19.0	19.2	19.5	20.0	18.7	19.0	19.2	19.5	20.0
	8H	18.7	18.9	19.2	19.4	19.9	18.7	18.9	19.2	19.4	19.9
	12H	18.6	18.8	19.1	19.3	19.9	18.6	18.8	19.1	19.3	19.9
12H	4H	18.8	19.1	19.2	19.5	20.0	18.8	19.1	19.2	19.5	20.0
	6H	18.7	18.9	19.2	19.4	19.9	18.7	18.9	19.2	19.4	19.9
	8H	18.6	18.8	19.1	19.3	19.9	18.6	18.8	19.1	19.3	19.9
Variations with the observer position at spacing:											
S =		2.0 / -4.8					2.0 / -4.8				
		1.5H / -11.1					4.0 / -11.1				
		2.0H / -24.0					5.9 / -24.0				