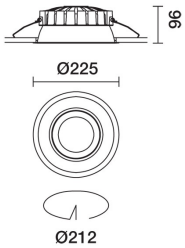
Easy

Design iGuzzini **iGuzzini**

Last information update: December 2024

Product configuration: RL85
RL85: Ø 225 - 3500K - CRI 90 - UGR<19 - INVERTER



Product code
RL85: Ø 225 - 3500K - CRI 90 - UGR<19 - INVERTER

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 warm white colour tone (3500K) 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. Luminaire complete with inverter unit for safety light.

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

Colour	**Weight (Kg)**
White / Aluminium (39)	1.68

Mounting
ceiling surface

Wiring
Product complete with INVERTER for safety light.

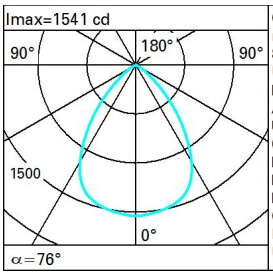
Complies with EN60598-1 and pertinent regulations

IP20 IP54 On the visible part of the product once installed

Technical data

lm system:	2181	CRI (minimum):	90
W system:	22.7	Colour temperature [K]:	3500
lm source:	2450	MacAdam Step:	2
W source:	16	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	96.1	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	89	Number of optical assemblies:	1

Polar



CIE
nL 0.89
82-99-100-100-89
UGR 18.4-18.4
DIN
A.61
UTE
0.89B+0.00T
F"1=818
F"1+F"2=992
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<19 I L<1500 cd/mq @65°

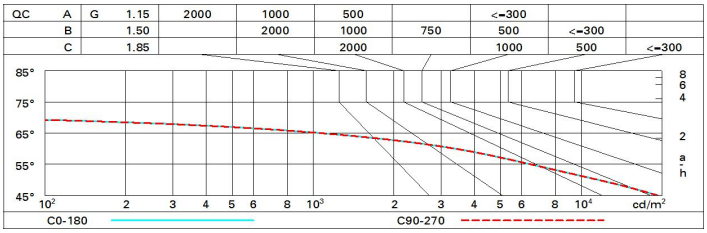
Lux

h	d	Em	Emax
1	1.6	1104	1541
2	3.1	276	385
3	4.7	123	171
4	6.3	69	96

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 2450 lm bare lamp luminous flux)

Riflect.: ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim				viewed crosswise					viewed endwise		
x	y										
2H	2H	18.9	19.7	19.2	19.9	20.2	18.9	19.7	19.2	19.9	20.2
	3H	18.8	19.5	19.1	19.8	20.0	18.8	19.5	19.2	19.8	20.1
	4H	18.7	19.4	19.1	19.7	20.0	18.8	19.4	19.1	19.7	20.0
	6H	18.6	19.2	19.0	19.5	19.9	18.7	19.3	19.1	19.6	19.9
	8H	18.6	19.2	19.0	19.5	19.8	18.7	19.2	19.0	19.6	19.9
	12H	18.6	19.1	18.9	19.4	19.8	18.6	19.2	19.0	19.5	19.9
4H	2H	18.8	19.4	19.1	19.7	20.0	18.7	19.4	19.1	19.7	20.0
	3H	18.6	19.2	19.0	19.5	19.9	18.6	19.2	19.0	19.5	19.9
	4H	18.5	19.0	18.9	19.4	19.8	18.5	19.0	18.9	19.4	19.8
	6H	18.5	18.9	18.9	19.3	19.7	18.5	18.9	18.9	19.3	19.7
	8H	18.4	18.8	18.9	19.2	19.6	18.4	18.8	18.9	19.2	19.6
	12H	18.4	18.7	18.8	19.1	19.6	18.4	18.7	18.8	19.1	19.6
8H	4H	18.4	18.8	18.9	19.2	19.6	18.4	18.8	18.9	19.2	19.6
	6H	18.3	18.6	18.8	19.1	19.6	18.3	18.6	18.8	19.1	19.6
	8H	18.3	18.5	18.8	19.0	19.5	18.3	18.5	18.8	19.0	19.5
	12H	18.2	18.4	18.7	18.9	19.5	18.2	18.4	18.7	18.9	19.5
12H	4H	18.4	18.7	18.8	19.1	19.6	18.4	18.7	18.8	19.1	19.6
	6H	18.3	18.5	18.8	19.0	19.5	18.3	18.5	18.8	19.0	19.5
	8H	18.2	18.4	18.7	18.9	19.5	18.2	18.4	18.7	18.9	19.5

Variations with the observer position at spacing:

S =			
	1.0H	2.0 / -4.8	2.0 / -4.8
	1.5H	4.0 / -11.1	4.0 / -11.1
	2.0H	5.9 / -24.0	5.9 / -24.0