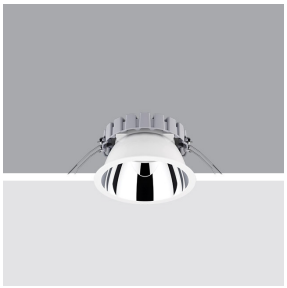
Easy

Design iGuzzini **iGuzzini**

Last information update: March 2025

Product configuration: R457.39
R457.39: Ø 163 - 3000K - CRI90 - UGR<19 - INVERTER - White / Aluminium



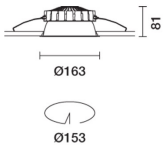
Product code
R457.39: Ø 163 - 3000K - CRI90 - UGR<19 - INVERTER - White / Aluminium

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 (3000K) 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
White / Aluminium (39)

Weight (Kg)
1.13



Mounting
ceiling surface

Wiring
Product complete with INVERTER for safety light.

Complies with EN60598-1 and pertinent regulations

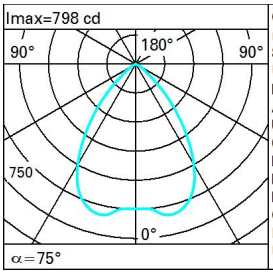
IP20 IP54 On the visible part of the product once installed

Technical data

lm system:	1113
W system:	13.3
lm source:	1250
W source:	8.3
Luminous efficiency (lm/W, real value):	83.6
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	89
CRI (minimum):	90
Colour temperature [K]:	3000
MacAdam Step:	2

Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Power factor:	See installation instructions
Inrush current:	20 A / 200 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 14 luminaires B16A: 23 luminaires C10A: 23 luminaires C16A: 39 luminaires
Overvoltage protection:	2kV Common mode & 1kV Differential mode
Control:	On/off

Polar



CIE
nL 0.89
84-99-100-100-89
UGR 18.0-18.0
DIN
A.61
UTE
0.89A+0.00T
F"1=842
F"1+F"2=994
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<19 I L<1500 cd/mq @65°

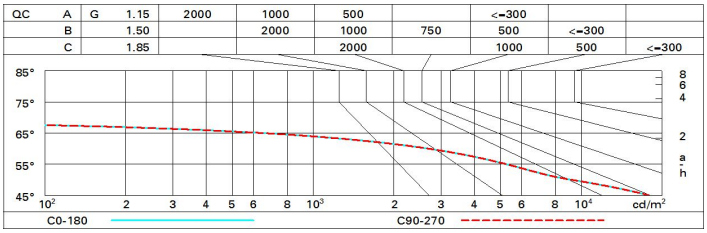
Lux

h	d	Em	Emax
1	1.5	584	751
2	3.1	146	188
3	4.6	65	83
4	6.1	37	47

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	74	68	64	61	67	64	63	59	67
1.0	79	73	70	67	72	69	69	65	73
1.5	85	81	78	75	80	77	76	73	82
2.0	88	85	83	81	84	82	81	78	88
2.5	90	88	86	85	87	85	84	81	91
3.0	92	90	88	87	88	87	86	83	93
4.0	93	91	90	89	90	89	88	85	95
5.0	94	92	91	91	91	90	88	86	96

Luminance curve limit



UGR diagram

Corrected UGR values (at 1250 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	18.5	19.3	18.8	19.5	19.7	18.5	19.3	18.8	19.5	19.7
	3H	18.4	19.0	18.7	19.3	19.6	18.4	19.1	18.7	19.4	19.6
	4H	18.3	18.9	18.6	19.2	19.5	18.3	19.0	18.7	19.3	19.6
	6H	18.2	18.8	18.6	19.1	19.4	18.2	18.8	18.6	19.1	19.5
	8H	18.2	18.7	18.5	19.0	19.4	18.2	18.8	18.6	19.1	19.4
	12H	18.1	18.7	18.5	19.0	19.4	18.2	18.7	18.6	19.0	19.4
4H	2H	18.3	19.0	18.7	19.3	19.6	18.3	18.9	18.6	19.2	19.5
	3H	18.2	18.7	18.6	19.0	19.4	18.2	18.7	18.6	19.0	19.4
	4H	18.1	18.5	18.5	18.9	19.3	18.1	18.5	18.5	18.9	19.3
	6H	18.0	18.4	18.4	18.8	19.2	18.0	18.4	18.4	18.8	19.2
	8H	18.0	18.3	18.4	18.7	19.2	18.0	18.3	18.4	18.7	19.2
	12H	17.9	18.2	18.4	18.7	19.1	17.9	18.2	18.4	18.7	19.1
8H	4H	18.0	18.3	18.4	18.7	19.2	18.0	18.3	18.4	18.7	19.2
	6H	17.9	18.2	18.3	18.6	19.1	17.9	18.2	18.3	18.6	19.1
	8H	17.8	18.1	18.3	18.5	19.0	17.8	18.1	18.3	18.5	19.0
	12H	17.8	18.0	18.3	18.5	19.0	17.8	18.0	18.3	18.5	19.0
12H	4H	17.9	18.2	18.4	18.7	19.1	17.9	18.2	18.4	18.7	19.1
	6H	17.8	18.1	18.3	18.5	19.0	17.8	18.1	18.3	18.5	19.0
	8H	17.8	18.0	18.3	18.5	19.0	17.8	18.0	18.3	18.5	19.0

Variations with the observer position at spacing:

S =			
	1.0H	2.4 / -5.9	2.4 / -5.9
	1.5H	4.6 / -13.0	4.6 / -13.0
	2.0H	6.6 / -33.9	6.6 / -33.9