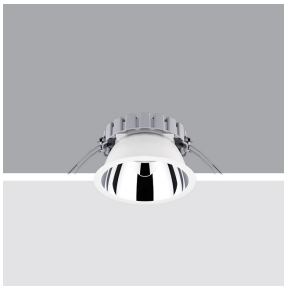
Easy

Design iGuzzini **iGuzzini**

Last information update: February 2025

Product configuration: R453
R453: Ø 163 - 3000K - CRI90 - UGR<19



Product code
R453: Ø 163 - 3000K - CRI90 - UGR<19

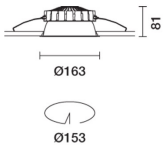
Technical description
Round fixed luminaire designed to use LED lamps with C.o.B. technology. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Dissipater made of painted grey die-cast aluminium. Product complete with LED lamp in 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.

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)
0.68

Mounting
ceiling surface



Wiring
Product complete with DALI components

Notes

TPa version available on request, contact iGuzzini for more info

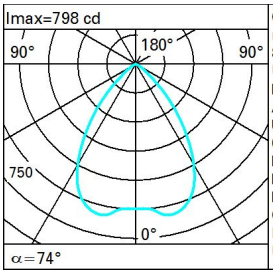
Complies with EN60598-1 and pertinent regulations

IP20 IP54 On the visible part of the product once installed

Technical data

lm system:	1113	Colour temperature [K]:	3000
W system:	10.3	MacAdam Step:	2
lm source:	1250	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	8.3	Lamp code:	LED
Luminous efficiency (lm/W, real value):	108	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):	90		

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°

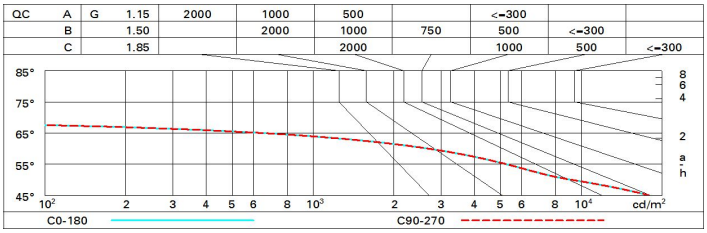
Lux

h	d	Em	Emax
1	1.5	584	751
2	3	146	188
3	4.5	65	83
4	6	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