Design iGuzzini

Last information update: May 2018

iGuzzini

Fixed circular recessed luminaire - Ø 96 mm - warm white - wide flood optic - UGR<19

### Product code

Q960

#### Technical description

Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in warm white colour tone CRI 90 (2700K). General light emission, with controlled luminance UGR<19 1500 cd/m2  $\alpha$ >65° wide flood optic.

#### Installation

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

# Dimension (mm)

Ø109x95

#### Colour

White/Aluminium (39)

### Weight (Kg)

0.65

### Mounting

ceiling recessed

#### Wiring

product complete with DALI components

Complies with EN60598-1 and pertinent regulations

















### Product configuration: Q960

### **Product characteristics**

Total lighting output [Lm]: 1072 Total power [W]: 13.9 Luminous efficacy [Lm/W]: 77.1

Life Time: > 50,000h - L80 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0

Emergency luminous flux [Lm]: /

Voltage [V]:

Number of optical assemblies: 1

# Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 74 Lamp code: LED

ZVEI Code: LED Nominal power [W]: 12 Nominal luminous [Lm]: 1450 Lamp maximum intensity [cd]: / Beam angle [°]: 44°

Number of lamps for optical assembly: 1

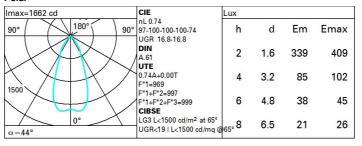
Socket: /

Ballast losses [W]: 1.9 Colour temperature [K]: 2700

CRI: 90

Wavelength [Nm]: / MacAdam Step: 2

# Polar











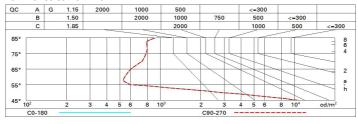




### Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	62	60	58	61	59	59	56	76
1.0	69	66	63	61	65	63	62	60	81
1.5	73	70	68	67	69	67	67	65	87
2.0	75	73	72	70	72	71	70	68	92
2.5	76	75	74	73	74	73	72	70	95
3.0	77	76	76	75	75	74	73	72	97
4.0	78	77	77	76	76	76	75	73	99
5.0	79	78	78	77	77	77	75	74	99

# Luminance curve limit



### UGR diagram

Rifled	ct.:												
ce il/c		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30		
walls work pl. Room dim		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30		
												877EEE	viewed
		x	У	crosswise							endwise		
2H	2H	17.3	18.0	17.6	18.2	18.5	17.3	18.0	17.6	18.2	18.5		
	ЗН	17.2	17.8	17.5	18.1	18.4	17.2	17.8	17.5	18.1	18.4		
	4H	17.1	17.7	17.5	18.0	18.3	17.1	17.7	17.5	18.0	18.3		
	бН	17.1	17.6	17.4	17.9	18.2	17.0	17.6	17.4	17.9	18.2		
	8H	17.0	17.5	17.4	17.8	18.2	17.0	17.5	17.4	17.8	18.2		
	12H	17.0	17.5	17.4	17.8	18.2	17.0	17.4	17.4	17.8	18.1		
4H	2H	17.1	17.7	17.5	18.0	18.3	17.1	17.7	17.5	18.0	18.3		
	ЗН	17.0	17.5	17.4	17.8	18.1	17.0	17.5	17.4	17.8	18.2		
	4H	16.9	17.3	17.3	17.7	18.1	16.9	17.3	17.3	17.7	18.1		
	бН	16.8	17.2	17.2	17.6	18.0	16.8	17.2	17.2	17.6	18.0		
	HS	16.8	17.1	17.2	17.5	18.0	16.8	17.1	17.2	17.5	18.0		
	12H	16.7	17.0	17.2	17.5	17.9	16.7	17.0	17.2	17.5	17.9		
вн	4H	16.8	17.1	17.2	17.5	18.0	16.8	17.1	17.2	17.5	18.0		
	6H	16.7	17.0	17.2	17.4	17.9	16.7	17.0	17.2	17.4	17.9		
	HS	16.6	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8		
	12H	16.6	16.8	17.1	17.3	17.8	16.6	16.8	17.1	17.3	17.8		
12H	4H	16.7	17.0	17.2	17.5	17.9	16.7	17.0	17.2	17.5	17.9		
	бН	16.6	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8		
	H8	16.6	16.8	17.1	17.3	17.8	16.6	16.8	17.1	17.3	17.8		
Varia	tions wi	th the ob	serverp	osition	at spacin	g:							
S =	1.0H	4.5 / -14.0					4.5 / -14.0						
	1.5H	7.3 / -14.3					7.3 / -14.3						
	2.0H	9.3 / -14.3					9.3 / -14.3						