iGuzzini

Last information update: May 2018

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

#### Product code Q959

## 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° medium optic.

#### Installation

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



(D) all

# 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
IP20	IP54					
CE	CIDET	EHC	A++	- K pending	(	

#### Product configuration: Q959

#### Product characteristics

Total lighting output [Lm]: 1056 Total power [W]: 13.9 Luminous efficacy [Lm/W]: 76 Life Time: > 50,000h - L80 - B10 (Ta 25°C)

#### Optical assembly Characteristics Type 1 Light Output Ratio (L.O.R.) [%]: 73 Lamp code: LED ZVEI Code: LED Nominal power [W]: 12 Nominal luminous [Lm]: 1450 Lamp maximum intensity [cd]: / Beam angle [°]: 24°

Total luminous flux at or above an angle of 90  $^{\circ}$  [Lm]: 0 Emergency luminous flux [Lm]: / Voltage [V]: - Number of optical assemblies: 1

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

Imax=3287 cd	CIE	Lux			
90° 180° 90°	nL 0.73 97-100-100-100-73	h	d	Em	Emax
	UGR 16.0-16.0 DIN A.61 UTE	2	0.9	640	822
$K \times X \times X$	0.73A+0.00T F"1=973	4	1.7	160	205
3000	F"1+F"2=999 F"1+F"2+F"3=1000 <b>CIBSE</b>	6	2.6	71	91
α=24°	LG3 L<1500 cd/m² at 65° UGR<19   L<1500 cd/mq @	<sub>65°</sub> 8	3.4	40	51

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	65	61	59	57	61	58	58	56	77
1.0	68	65	62	61	64	62	62	59	81
1.5	72	69	67	66	68	67	66	64	88
2.0	74	72	71	70	71	70	69	67	92
2.5	75	74	73	72	73	72	71	69	95
3.0	76	75	75	74	74	73	73	71	97
4.0	77	76	76	75	75	75	74	72	99
5.0	78	77	77	76	76	76	74	73	100

### Luminance curve limit

QC	Α	G	1.15	2000	1000	500		<-300		
	в		1.50		2000	1000	750	500	<=300	
	С		1.85			2000		1000	500	<=300
85° (			-	+						38
75°		/				$\left  \left( $	ųų			- 6
65°	-						$\searrow$	$\rightarrow$		2
55°	5								$\geq$	- ª
45° 1	0 <sup>2</sup>		2	3 4	5681	10 <sup>3</sup>	2 3	4 5 6	8 10 <sup>4</sup>	cd/m <sup>2</sup>
	C0-18	0					C90-270 -			

### UGR diagram

Rifleo		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		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
Room dim		0.20	0.20	viewed	0.10	0.20	010	0.20	viewed	0.20	0.20	
x y		crosswise						endwise				
2H	2H	16.9	18.6	17.3	18.9	19.2	16.9	18.6	17.3	18.9	19.2	
	ЗН	16.8	18.0	17.1	18.3	18.7	16.8	18.0	17.1	18.3	18.7	
	4H	16.7	17.9	17.1	18.2	18.5	16.7	17.9	17.1	18.2	18.5	
	6H	16.6	17.7	17.0	18.1	18.4	16.6	17.7	17.0	18.1	18.4	
	BH	16.5	17.7	16.9	18.0	18.4	16.5	17.7	16.9	18.0	18.4	
	12H	16.5	17.6	16.9	18.0	18.3	16.5	17.6	16.9	18.0	18.3	
4H	2H	16.7	17.9	17.1	18.2	18.5	16.7	17.9	17.1	18.2	18.5	
	ЗH	16.5	17.6	16.9	18.0	18.3	16.5	17.6	16.9	18.0	18.3	
	4H	16.4	17.4	16.8	17.8	18.2	16.4	17.4	16.8	17.8	18.2	
	6H	16.2	17.5	16.6	17.9	18.3	16.2	17.5	16.6	17.9	18.3	
	HS	16.0	17.5	16.5	17.9	18.4	16.0	17.5	16.5	17.9	18.4	
	12H	15.9	17.5	16.4	18.0	18.5	15.9	17.5	16.4	18.0	18.5	
вн	4H	16.0	17.5	16.5	17.9	18.4	16.0	17.5	16.5	17.9	18.4	
	6H	15.9	17.3	16.4	17.8	18.3	15.9	17.3	16.4	17.8	18.3	
	HS	15.9	17.2	16.4	17.6	18.2	15.9	17.2	16.4	17.6	18.3	
	12H	15.9	16.9	16.5	17.4	17.9	15.9	16.9	16.5	17.4	17.9	
12H	4H	15.9	17.5	16.4	18.0	18.5	15.9	17.5	16.4	18.0	18.5	
	бH	15.9	17.2	16.4	17.6	18.2	15.9	17.2	16.4	17.6	18.2	
	8H	15.9	16.9	16.5	17.4	17.9	15.9	16.9	16.5	17.4	17.9	
Varia	tions wi	th the ot	pserverp	osition	at spacin	Ig:	0.0					
S =	1.0H		4.	4 / -22	.6	4.4 / -22.6						
	1.5H		7.	2 / -22	8.	7.2 / -22.8						