iGuzzini

Last information update: June 2018



rectangular recessed luminaire with 3 optical assemblies - warm white passive dissipation LEDs - integrated DALI control gear - wide flood

Product code Q231

Technical description

Multiple recessed adjustable removable luminaire for LED lamp with passive heat dissipation system. Sheet steel perimeter frame. Main structure made of die-cast aluminium. Steel rotation hinges. Die-cast aluminium lamp bodies with shaped surface for high level radiant effect for effectively reducing the temperature and keeping the long-term LED lamp performance unchanged. Chromeplated aluminium lamp body closing rings. Reflectors with high efficiency super-pure aluminium optic - wide flood beam angle. Orientamento dei corpi con dispositivi di manovra manuale: interno 29° -esterno 75° - rotazione sull'asse 355°; in fase di orientamento e rotazione i corpi lampada sono soggetti ad alcune limitazioni consultabili sul foglio istruzioni. Supplied with DALI dimmable control gear units connected to the luminaire. Warm white high colour rendering LEDs CRI (Ra) > 90.

Installation

recessed: preparation slot 138 x 386 mm; perimeter frame preliminary fixing on false ceiling (min. thickness 1 mm) with adjustable metal brackets; main structure inserted and mechanically locked on the frame



UN

398x151

Dimension (mm) 398x151x109

Colour

White/Aluminium (39) | Grey/Black/Aluminium (E1)

Weight (Kg)

3.5

Mounting ceiling recessed

Wiring

on control gear box with quick-coupling connections; each lamp body has a specific ballast, allowing separate switch ons

Notes

the configuration of the lamp bodies causes some limitations during angling and rotation; consult the instructions leaflet



Complies with EN60598-1 and pertinent regulations

Product configuration: Q231

Product characteristics

Total lighting output [Lm]: 5845 Total power [W]: 71.2 Luminous efficacy [Lm/W]: 82.1 Life Time: > 50,000h - L80 - B10 (Ta 25°C)

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 78 Lamp code: LED ZVEI Code: LED Nominal power [W]: 21 Nominal luminous [Lm]: 2500 Lamp maximum intensity [cd]: / Beam angle [°]: 54° Total luminous flux at or above an angle of 90 $^{\circ}$ [Lm]: 0 Emergency luminous flux [Lm]: / Voltage [V]: - Number of optical assemblies: 3

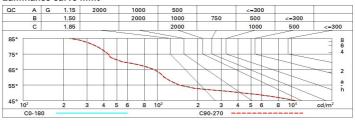
Number of lamps for optical assembly: 1 Socket: / Ballast losses [W]: 2.7 Colour temperature [K]: 3000 CRI: 90 Wavelength [Nm]: / MacAdam Step: 2 Polar

Imax=2589 cd	CIE	Lux			
90° 180° 90°	nL 0.78 97-100-100-100-78	h	d	Em	Emax
	UGR 15.8-15.8 DIN A.61 UTE	2	2	500	644
$K \rightarrow K / \gamma$	0.78A+0.00T F"1=965	4	4.1	125	161
2500	F"1+F"2=997 F"1+F"2+F"3=1000	6	6.1	56	72
α=54°	LG3 L<1500 cd/m² at 65° UGR<16 L<1500 cd/mq @	9 _{65°} 8	8.2	31	40

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	69	65	63	60	65	62	62	59	76
1.0	72	69	66	65	68	66	66	63	81
1.5	76	74	72	70	73	71	70	68	87
2.0	79	77	75	74	76	75	74	71	92
2.5	80	79	78	77	78	77	76	74	95
3.0	81	80	80	79	79	78	77	75	97
4.0	83	82	81	81	80	80	79	77	98
5.0	83	82	82	82	81	81	79	78	99

Luminance curve limit



UGR diagram

Rifle	et :										
Riflect.: ceil/cav walls work pl.		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
								0.20	0.20		
Room dim		0.20	0.20	viewed	0.20	0.20	0.20	0.20	viewed	0.20	0.20
x	y	crosswise				endwise					
	Conception in the					10000	-	S. Color	10000	and the second s	
2H	2H	16.3	17.0	16.6	17.2	17.4	16.3	17.0	16.6	17.2	17.4
	3H	16.2	16.8	16.5	17.0	17.3	16.2	16.8	16.5	17.0	17.3
	4H	16.1	16.7	16.5	16.9	17.2	16.1	16.7	16.5	16.9	17.2
	6H	16.1	16.5	16.4	16.8	17.2	16.0	16.5	16.4	16.8	17.2
	8H	16.0	16.5	16.4	16.8	17.1	16.0	16.5	16.4	16.8	17.1
	12H	16.0	16.4	16.4	16.8	17.1	16.0	16.4	16.3	16.8	17.1
4H	2H	16.1	16.7	16.5	16.9	17.2	16.1	16.7	16.5	16.9	17.2
	ЗH	16.0	16.4	16.4	16.8	17.1	16.0	16.4	16.4	16.8	17.1
	4H	15.9	16.3	16.3	16.7	17.0	15.9	16.3	16.3	16.7	17.0
	6H	15.8	16.2	16.2	16.6	17.0	15.8	16.2	16.2	16.5	17.0
	BH	15.8	16.1	16.2	16.5	16.9	15.8	16.1	16.2	16.5	16.9
	12H	15.7	16.0	16.2	16.4	16.9	15.7	16.0	16.2	16.4	16.9
вн	4H	15.8	16.1	16.2	16.5	16.9	15.8	16.1	16.2	16.5	16.9
	6H	15.7	15.9	16.1	16.4	16.9	15.7	15.9	16.1	16.4	16.9
	HS	15.6	15.8	16.1	16.3	16.8	15.6	15.8	16.1	16.3	16.8
	12H	15.6	15.8	16.1	16.3	16.8	15.6	15.8	16.1	16.2	16.8
12H	4H	15.7	16.0	16.2	16.4	16.9	15.7	16.0	16.2	16.4	16.9
	бH	15.6	15.8	16.1	16.3	16.8	15.6	15.8	16.1	16.3	16.8
	8H	15.6	15.8	<u>16.1</u>	16.2	16.8	15.6	15.8	16.1	16.3	16.8
Varia	tions wi	th the ot	servern	osition a	atspacin	a.					
S =	1.0H	ith the observer position at spacing: 5.1 / -13.5					5.1 / -13.5				
	1.5H		9 / -14		7.9 / -14.7						
	2.0H		9 / -15		9.9 / -15.9						