iGuzzini

Last information update: April 2024

Product configuration: Q228

Q228: rectangular recessed luminaire with 3 optical assemblies - warm white passive dissipation LEDs - integrated DALI control gear - wide flood

Product code

Q228: rectangular recessed luminaire with 3 optical assemblies - warm white passive dissipation LEDs - integrated DALI control gear - wide flood Attention! Code no longer in production

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. Chrome-plated aluminium lamp body closing rings. Reflectors with high efficiency super-pure aluminium of blood 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 efficiency LED.

Installation

Colour

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

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

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



Technical data					
Im system:	7014	CRI:	80		
W system:	73.8	Colour temperature [K]:	3000		
Im source:	3000	MacAdam Step:	2		
W source:	22	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)		
Luminous efficiency (Im/W,	95	Lamp code:	LED		
real value):		Number of lamps for optical	1		
Im in emergency mode:	-	assembly:			
Total light flux at or above	0	ZVEI Code:	LED		
an angle of 90° [Lm]:		Number of optical	3		
Light Output Ratio (L.O.R.)	78	assemblies:			
[%]:		Control:	DALI		
Beam angle [°]:	54°				

Polar

Imax=3107 cd		Lux			
90° 180° 90°	nL 0.78 97-100-100-100-78	h	d	Em	Emax
	UGR 16.4-16.4 DIN A.61	2	2	600	773
$K \times K >$	UTE 0.78A+0.00T F"1=965	4	4.1	150	193
3000	F"1+F"2=997 F"1+F"2+F"3=1000 CIBSE	6	6.1	67	86
α=54°	LG3 L<1500 cd/m² at 65° UGR<19 L<1500 cd/mq @	_{65°} 8	8.2	38	48









Complies with EN60598-1 and pertinent regulations

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

QC	Α	G	1.15	20	000		1000		500			<-3	300			
	в		1.50				2000		1000	7	50	50	00	<-3	00	
	C		1.85						2000			10	00	50	0	<=300
85° [ħί			-			- 8
75°									ĹĹ	μ	+	\square	_			- 6
65°				-	-		_		\checkmark	\land	$\left\{ \right\}$	$\overline{\mathbf{A}}$	\geq			2
55°					-										\geq	a h
45° 10) ²		2	3	4	5 6	8	10 ³		2	3	4 5	6	8 104		d/m ²
	C0-180	-				_				C90-2	270 -					

UGR diagram

Riflec ceil/ca walls work Room x	əv pl.	0.70	0.70								
walls work Room	pl.			0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
Room	28.2		0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Room	28.2	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
x		viewed							viewed		
	У		c	rosswis	е	endwise					
2H	2H	17.0	17.6	17.2	17.8	18.1	17.0	17.6	17.2	17.8	18.1
	3H	16.8	17.4	17.1	17.7	17.9	16.8	17.4	17.1	17.7	17.9
	4H	16.8	17.3	17.1	17.6	17.9	16.8	17.3	17.1	17.6	17.9
	6H	16.7	17.2	17.0	17.5	17.8	16.7	17.2	17.0	17.5	17.8
	8H	16.7	17.1	17.0	17.4	17.8	16.6	17.1	17.0	17.4	17.8
	12H	16.6	17.1	17.0	17.4	17.7	16.6	17.1	17.0	17.4	17.7
4H	2H	16.8	17.3	17.1	17.6	17.9	16.8	17.3	17.1	17.6	17.9
	ЗH	16.6	17.1	17.0	17.4	17.8	16.6	17.1	17.0	17.4	17.8
	4H	16.5	16.9	16.9	17.3	17.7	16.5	16.9	16.9	17.3	17.7
	6H	16.4	16.8	16.9	17.2	17.6	16.4	16.8	16.9	17.2	17.6
	HS	16.4	16.7	16.8	17.1	17.6	16.4	16.7	16.8	17.1	17.6
	12H	16.4	16.6	16.8	17.1	17.5	16.4	16.6	16.8	17.1	17.5
вн	4H	16.4	16.7	16.8	17.1	17.6	16.4	16.7	16.8	17.1	17.0
	6H	16.3	16.6	16.8	17.0	17.5	16.3	16.6	16.8	17.0	17.5
	8H	16.3	16.5	16.7	16.9	17.4	16.3	16.5	16.7	16.9	17.4
	12H	16.2	16.4	16.7	16.9	17.4	16.2	16.4	16.7	16.9	17.4
12H	4H	16.4	16.6	16.8	17.1	17.5	1 <u>6.</u> 4	16.6	16.8	17.1	17.5
	бH	16.3	16.5	16.7	16.9	17.4	16.3	16.5	16.7	16.9	17.4
	8H	16.2	16.4	16.7	16.9	17.4	16.2	16. <mark>4</mark>	16.7	16.9	17.4
Varia	tions wi	th the o b	pserverp	osition	at spacin	ig:	000				
S =	1.0H		5.	1 / -13	.5	5.1 / -13.5					
	1.5H		7.	9 / -14	.7	7.9 / -14.7					