iGuzzini

Last information update: October 2023

#### Product configuration: P299

P299: 600x600 - neutral White - UGR<19 - DALI



# Product code

P299: 600x600 - neutral White - UGR<19 - DALI Attention! Code no longer in production

#### Technical description

Recessed direct emission luminaire designed to use Neutral White colour 4,000K LEDs and be installed in 600x600 modular false ceilings or in plasterboard ceilings using a frame to be ordered as an accessory. The optical assembly is made of a thermoplastic material for controlled luminance with a UGR<19 L<3000 cd/m2  $\alpha \ge 65^{\circ}$  beam, ideal for environments with video terminals. Product complete with DALI ballast.

#### Installation

recessed in 600x600 modular false ceilings or in plasterboard ceilings using a frame to be ordered as an accessory.

#### Colour White (01)

Mounting

ceiling surface

## Wiring

product complete with DALI components



Complies with EN60598-1 and pertinent regulations



**IP43** 

**IP20** 

Technical data			
Im system:	3771	Colour temperature [K]:	4000
W system:	35	MacAdam Step:	3
Im source:	4600	Life Time LED 1:	50,000h - L80 - B10 (Ta 25°C)
W source:	30	Ballast losses [W]:	5
Luminous efficiency (Im/W,	107.7	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	1
Light Output Ratio (L.O.R.)	82	assemblies:	
[%]:		Control:	DALI
CRI:	80		

#### Polar

C0-180 CIE nL 0.82 90° 62-88-98-100-82 UGR 18.4-16.5 Imax=1998 cd Lux 180° 90° h d1 d2 Em Emax DIN 2 4.1 2.9 336 499 A.51 UTE 0.82C+0.00T F"1=619 F"1+F"2=883 8.3 5.8 125 4 84 2000 F"1+F"2+F"3=979 CIBSE 6 12.4 8.7 37 55 0° LG3 L<3000 cd/m<sup>2</sup> at 65° UGR<19 | L<3000 cd/mq @658 16.6 11.6 21 31 α=92° / 72°

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	59	52	47	43	51	46	46	41	50
1.0	65	58	53	49	57	52	52	47	57
1.5	72	67	62	59	65	62	61	56	69
2.0	76	72	69	66	71	68	67	63	76
2.5	79	75	73	70	74	71	70	67	81
3.0	81	78	75	73	76	74	73	69	85
4.0	83	80	78	77	79	77	76	72	88
5.0	84	82	80	79	80	79	77	74	91

## Luminance curve limit

QC	A	G	1.15	20	000		10	000		500				<=300				
	в		1.50				20	000		1000		750		500		<=300		
	C		1.85							2000				1000		500	<=300	D
85°					T		T	T		$\overline{1}$	ì	ſΠ		ĪT	$\overline{}$	Í		8
75°				+	+		-		-	C.		$\mathbb{Z}$			-	-		4
65°					+					,								2
55°					+				-					$\square$		$\square$		h
45° 1	0 <sup>2</sup>		2	3	4	5	6	8	10 <sup>3</sup>		2	3	4	5 6	8	104	cd/m <sup>2</sup>	
	C0-180	0 -			_	_	-				C90	0-270						

## UGR diagram

Riflect. ceil/cav walls work p Room x 2H 4H	v ol.	0.70 0.50 0.20 16.5 17.4 17.7 17.8 17.8 17.8 17.9	0.70 0.30 0.20 17.5 18.3 18.5 18.6 18.6 18.6	0.50 0.20 viewed rosswis 16.8 17.7 18.0 18.2 18.2	0.50 0.30 0.20 e 17.8 18.6 18.8 18.9	0.30 0.30 0.20 18.1 18.9 19.2	0.70 0.50 0.20 14.2 14.6	15.2 15.6	0.50 0.50 0.20 viewed endwise 14.5 15.0	15.5 15.8	0.30 0.30 0.20 15.7 16.1
walls work p Room x 2H	ol. dim y 2H 3H 4H 6H 8H 12H	0.50 0.20 16.5 17.4 17.7 17.8 17.8	0.30 0.20 17.5 18.3 18.5 18.6 18.6	0.50 0.20 viewed rosswise 16.8 17.7 18.0 18.2	0.30 0.20 e 17.8 18.6 18.8	0.30 0.20 18.1 18.9	0.50 0.20 14.2 14.6	0.30 0.20 15.2 15.6	0.50 0.20 viewed endwise 14.5	0.30 0.20 15.5 15.8	0.30 0.20 15.7
work p Room x 2H	dim y 2H 3H 4H 6H 8H 12H	0.20 16.5 17.4 17.7 17.8 17.8	0.20 17.5 18.3 18.5 18.6 18.6	0.20 viewed crosswis 16.8 17.7 18.0 18.2	0.20 e 17.8 18.6 18.8	0.20 18.1 18.9	0.20 14.2 14.6	0.20 15.2 15.6	0.20 viewed endwise 14.5	0.20 15.5 15.8	0.20
Room x 2H	dim y 2H 3H 4H 6H 8H 12H	17.4 17.7 17.8 17.8	17.5 18.3 18.5 18.6 18.6	16.8 17.7 18.0 18.2	17.8 18.6 18.8	18.9	14.6	15.2 15.6	endwise 14.5	15.5 15.8	15.7
2H	2H 3H 4H 6H 8H 12H	17.4 17.7 17.8 17.8	17.5 18.3 18.5 18.6 18.6	16.8 17.7 18.0 18.2	17.8 18.6 18.8	18.9	14.6	15.2 15.6	14.5	15.5 15.8	
	3H 4H 6H 8H 12H	17.4 17.7 17.8 17.8	18.3 18.5 18.6 18.6	17.7 18.0 18.2	18.6 18.8	18.9	14.6	15.6		15.8	
4H	4н 6н 8н 12н	17.7 17.8 17.8	18.5 18.6 18.6	18.0 18.2	18.8				15.0		16.1
4H	6H 8H 12H	17.8 17.8	18.6 18.6	18.2		19.2					
4H	8H 12H	17.8	18.6		18.9		14.8	15.7	15.1	16.0	16.3
4H	<mark>1</mark> 2H			18.2		19.3	14.8	15.6	15.2	16.0	16.3
4H	110202	17.9	18.6	10.2	19.0	19.3	14.8	15.6	15.2	15.9	16.3
4H	2H		0.2001	<mark>18.</mark> 3	19.0	19.3	14.8	15.5	15.2	15.9	16.3
		16.7	17.6	17.1	17.9	18.2	15.4	16.3	15.8	16.6	16.9
	3H	17.8	18.5	18.2	18.9	19.2	16.0	16.7	16.4	17.1	17.4
	4H	18.1	18.8	18.6	19.2	19.6	16.2	16.9	16.6	17.3	17.7
	6H	18.4	19.0	18.8	19.4	19.8	16.4	17.0	16.8	17.4	17.8
	HS	18.4	19.0	18.9	19.4	19.8	16.5	17.0	16.9	17.4	17.8
	12H	18.5	19.0	18.9	19.4	19.9	16.4	16.9	16.9	17.4	17.8
вн	4H	18.2	18.7	18.7	19.2	19.6	16.8	17.3	17.2	17.7	18.2
	6H	18.5	19.0	19.0	19.4	19.9	17.1	17.5	17.5	17.9	18.4
	8H	18.6	19.0	19.1	19.5	20.0	17.2	17.5	17.6	18.0	18.5
	12H	18.7	19.1	19.2	19.5	20.1	17.2	17.5	17.7	18.0	18.5
12H	4H	18.2	18.7	18.7	19.1	19.6	16.9	17.3	17.3	17.8	18.2
	6H	18.5	18.9	19.0	19.4	19.9	17.2	17.5	17.7	18.0	18.5
	8H	18.7	19.0	19.2	19.5	20.0	17.3	17.6	17.8	18.1	18.0
Variatio	ions wit	th the ot	oserver p	osition	at spacin	ig:					
S =	1.0H		0	.2 / -0	.3	0.3 / -0.4					
	1.5H		0	.6 / -0.	.9		0	.5 / -0.	9		