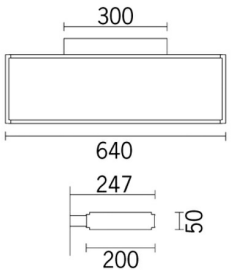
iPlan

Design iGuzzini **iGuzzini**

Last information update: June 2018



indoor wall-mounted luminaire - 640x200 mm H 50 mm - warm white LED - DALI

Product code
5193

Technical description
Indoor wall-mounted luminaire with direct/indirect light emission designed to use a warm white LED lamp (3000K). The light flow is split into 44% down light, 56% uplight. The product optical assembly is made with extruded aluminium lateral profiles, injection-moulded polycarbonate end caps and sheet steel inner covers. The product undergoes a liquid paint treatment. The optic system consists of an MPO methacrylate screen that allows the direction of the light emitted by the LED lamp to be controlled accurately. Luminance is maintained in compliance with EN12464-1 standards. UGR<19 levels are ideal for offices and work environments with videoscreens.

Installation
Wall-mounted. Wall-mounting is allowed by an aluminium base, with a galvanised sheet steel inner supporting plate.

Dimension (mm)
640x200x50

Colour
Grey (15)

Weight (Kg)
2.65

Mounting
wall surface

Wiring
Luminaire equipped with DALI digital dimmable electronic ballast, set up for switch-dim, with the possibility of also adjusting using a normal electric switch. The product is complete with quick-coupling terminal blocks for electrical connections. Occupies 1 DALI address.

Complies with EN60598-1 and pertinent regulations

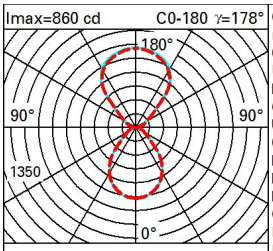
IP20

Product configuration: 5193

Product characteristics
Total lighting output [Lm]: 3080
Total power [W]: 37.2
Luminous efficacy [Lm/W]: 82.8
Life Time: > 50,000h - L80 - B10 (Ta 25°C)
Total luminous flux at or above an angle of 90° [Lm]: 1716
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1
Light Output Ratio (L.O.R.) [%]: 70
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 31
Nominal luminous [Lm]: 4400
Lamp maximum intensity [cd]: /
Beam angle [°]: /
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 6.2
Colour temperature [K]: 3000
CRI: 80
Wavelength [Nm]: /
MacAdam Step: 3.5

Polar



CIE
nL 0.70
65-89-97-56-70
UGR 15.3-14.7
DIN
C.53
UTE
0.39C+0.31T
F"1=653
F"1+F"2=888
F"1+F"2+F"3=972
CIBSE
LG3 L<3000 cd/m² at 65°
UGR<16 I L<3000 cd/mq @65°

Lux

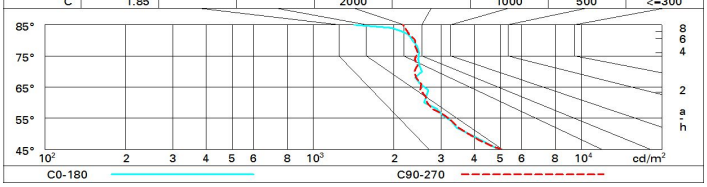
h	d1	d2	Em	Emax
1	-	-	202	859
2	-	-	50	215
3	-	-	22	95
4	-	-	13	54

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	42	37	32	29	33	29	26	20	53
1.0	46	41	37	34	36	33	30	23	59
1.5	52	48	44	41	42	40	35	27	70
2.0	55	52	49	46	46	43	38	30	77
2.5	57	54	52	50	48	46	41	32	82
3.0	59	56	54	52	50	48	42	33	85
4.0	60	58	56	55	51	50	44	35	89
5.0	61	60	58	57	53	51	45	35	91

Luminance curve limit

QC		G								
	A		1.15	2000	1000	500		<=300		
	B		1.50		2000	1000	750	500	<=300	
	C		1.85			2000		1000	500	<=300



UGR diagram

Corrected UGR values (at 4400 lm bare lamp luminous flux)

Riflect.:											
ceil/cav		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 pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim				viewed					viewed		
x	y			crosswise					endwise		
2H	2H	12.8	13.4	13.7	14.3	15.3	12.8	13.4	13.7	14.3	15.3
	3H	13.6	14.1	14.5	15.0	16.1	13.0	13.5	13.8	14.4	15.4
	4H	14.0	14.5	14.9	15.4	16.5	13.0	13.5	13.9	14.3	15.5
	6H	14.4	14.9	15.3	15.8	16.9	12.9	13.4	13.9	14.3	15.4
	8H	14.6	15.0	15.5	15.9	17.0	12.9	13.4	13.8	14.3	15.4
	12H	14.6	15.0	15.5	15.9	17.1	12.9	13.3	13.8	14.2	15.3
4H	2H	13.0	13.5	13.9	14.3	15.4	14.0	14.5	14.9	15.4	16.5
	3H	14.0	14.4	14.9	15.3	16.4	14.3	14.8	15.3	15.7	16.8
	4H	14.5	14.9	15.5	15.8	17.0	14.5	14.9	15.4	15.8	17.0
	6H	15.1	15.4	16.0	16.3	17.5	14.7	15.0	15.6	15.9	17.1
	8H	15.3	15.6	16.3	16.5	17.7	14.7	15.0	15.7	15.9	17.2
	12H	15.4	15.6	16.4	16.6	17.8	14.7	15.0	15.7	15.9	17.1
8H	4H	14.7	15.0	15.7	15.9	17.2	15.3	15.6	16.2	16.5	17.7
	6H	15.4	15.7	16.4	16.7	17.9	15.6	15.8	16.6	16.8	18.0
	8H	15.8	16.0	16.8	16.9	18.2	15.8	16.0	16.7	16.9	18.2
	12H	15.9	16.1	16.9	17.1	18.4	15.9	16.1	16.9	17.1	18.3
12H	4H	14.7	15.0	15.7	15.9	17.2	15.4	15.7	16.4	16.6	17.9
	6H	15.5	15.7	16.5	16.7	18.0	15.8	16.0	16.8	17.0	18.3
	8H	15.9	16.1	16.9	17.1	18.3	16.0	16.2	17.0	17.2	18.5

Variations with the observer position at spacing:

S =	1.0H	0.3 / -0.4	0.3 / -0.3
	1.5H	0.9 / -0.7	0.9 / -0.7
	2.0H	1.7 / -0.9	1.7 / -0.9