

Last information update: April 2025

Product configuration: PY93.S1

PY93.S1: Luminaire L=880 - DALI-2 Sensor - Very Wide Flood (Down) optic - UGR<19 - 33.5W 4828.5lm - 3500K - CRI 90 - White/White/White Transparent

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Technical description

Luminaire made of painted extruded aluminium, frame and caps made of injection-moulded thermoplastic. Very Wide Flood optic (80°) in a Space Opti-Diamond (PMMA) version with a rear cover available in a White (Transparent White) or Black (Transparent Black) version. Integrated DALI-2 power supply and 3500K CRI90 direct emission monochrome LED lamp (Mid-Power). Version with UGR < 19 controlled luminance - in compliance with the standard for use in environments with video monitors ($L \leq 3000 \text{ cd/m}^2$). Luminaire complete with DALI-2 sensor and light and motion detector, for compatible DALI-2 control systems.

Installation

Mounted on mains voltage tracks.

Positioning height min 2.4 m / max 5 m for motion and min 2.4 m / max 3 m as a light and motion sensor.

For other height positioning values and distances between luminaires, contact iGuzzini or refer to the instruction sheets.

Example of typical motion sensor coverage diameter: 5 m (@ 4 m h for installation).

Dynamic lighting range: 1-1000 lx.

Movement detection angle 84°.

Detection angle for light measurement 30° - 60° (asymmetric).

Colour

White/White/White Transparent (S1)

Weight (Kg)

2.73

Wiring

Power supply via DALI bus (consumption 9 mA).

Notes

DALI EN 62386-101 ed.2 (DALI-2) The sensor used is DALI-2 certified. DALI parts 101,103,301,303,304

For systems compatible with the DALI-2 sensor, contact iGuzzini.

Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	4829	Lamp code:	LED
W system:	31	Number of lamps for optical assembly:	1
Im source:	5550	ZVEI Code:	LED
W source:	31	Number of optical assemblies:	1
Luminous efficiency (Im/W, real value):	155.8	Power factor:	See installation instructions
Im in emergency mode:	-	Inrush current:	10 A / - μ s
Total light flux at or above an angle of 90° [Lm]:	0	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 12 luminaires B16A: 20 luminaires C10A: 20 luminaires C16A: 34 luminaires
Light Output Ratio (L.O.R.) [%]:	87	Minimum dimming %:	1
CRI (minimum):	90	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	3500	Control:	DALI-2 sensor
MacAdam Step:	3		

Imax=3525 cd **C35-215** $\gamma=15^\circ$

90° 180° 90°

3000

0°

CIE
nL 0.87
85-97-99-100-87
UGR 14.9-13.8

DIN
A.61

UTE
0.87 A+0.00 T
F"1=846
F"1+F"2=966
F"1+F"2+F"3=992

CIBSE
LG3 L<1500 cd/m² at 65°
UGR<16 | L<1500 cd/mq @

	R	77	75	73	71	55	53	33	00	DRR
K0.8	72	67	63	60	66	62	62	58	67	
1.0	77	72	68	65	71	67	67	63	73	
1.5	82	79	75	73	77	75	74	70	81	
2.0	86	83	80	78	82	79	78	75	87	
2.5	88	85	84	82	84	82	81	78	90	
3.0	89	87	86	84	86	85	83	81	93	
4.0	91	89	88	87	88	87	85	83	95	
5.0	91	90	89	88	89	88	86	84	96	

Figure 1 is a graph showing the angular distribution of light intensity (I) versus scattering angle (θ) for three different samples (A, B, C) at 2000 nm. The x-axis is labeled 'cd/m²' and ranges from 10⁵ to 10⁴. The y-axis is labeled 'a h' and ranges from 45° to 85°. Sample A (red dashed line) shows a broad peak around 75°. Sample B (cyan solid line) shows a sharp peak around 75°. Sample C (blue solid line) shows a sharp peak around 75°. The legend indicates: A: 1.15, B: 1.50, C: 1.85. The x-axis is labeled 'C0-180' and 'C90-270'.

UGR diagram

Corrected UGR values (at 5550 lm bare lamp luminous flux)												
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise					
2H	2H	14.8	15.6	15.1	15.8	16.0	13.9	14.6	14.2	14.9	15.1	
	3H	14.9	15.6	15.2	15.9	16.1	13.8	14.5	14.1	14.8	15.1	
	4H	14.9	15.6	15.3	15.9	16.2	13.8	14.4	14.1	14.7	15.0	
	6H	15.0	15.6	15.3	15.9	16.2	13.7	14.3	14.1	14.6	14.9	
	8H	15.0	15.5	15.3	15.9	16.2	13.7	14.2	14.0	14.6	14.9	
	12H	14.9	15.5	15.3	15.8	16.2	13.6	14.2	14.0	14.5	14.9	
4H	2H	14.6	15.3	15.0	15.6	15.9	13.9	14.6	14.3	14.9	15.2	
	3H	14.8	15.3	15.2	15.7	16.0	13.9	14.5	14.3	14.8	15.2	
	4H	14.9	15.4	15.3	15.7	16.1	13.9	14.4	14.3	14.7	15.1	
	6H	14.9	15.4	15.4	15.8	16.2	13.9	14.3	14.3	14.7	15.1	
	8H	14.9	15.3	15.4	15.7	16.2	13.8	14.2	14.3	14.6	15.1	
	12H	14.9	15.3	15.4	15.7	16.2	13.8	14.1	14.2	14.6	15.0	
8H	4H	14.8	15.2	15.2	15.6	16.0	13.9	14.3	14.3	14.7	15.1	
	6H	14.9	15.2	15.4	15.6	16.1	13.9	14.2	14.4	14.7	15.1	
	8H	14.9	15.2	15.4	15.6	16.1	13.9	14.2	14.4	14.6	15.1	
	12H	14.9	15.1	15.4	15.6	16.1	13.9	14.1	14.4	14.6	15.1	
12H	4H	14.8	15.1	15.2	15.5	16.0	13.9	14.2	14.3	14.7	15.1	
	6H	14.8	15.1	15.3	15.6	16.1	13.9	14.2	14.4	14.6	15.1	
	8H	14.9	15.1	15.4	15.6	16.1	13.9	14.1	14.4	14.6	15.1	
Variations with the observer position at spacing:												
S =		1.0H	2.7 / -3.8		3.0 / -4.4							
		1.5H	5.2 / -4.3		5.2 / -4.9							
		2.0H	7.1 / -4.9		7.1 / -5.2							