Tecnica Pro

Design iGuzzini **iGuzzini**

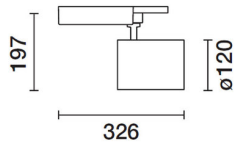
Last information update: June 2018

DALI dimmable spotlight - warm white wide flood optic

Product code
P701

Technical description
Adjustable spotlight with adapter for installation on DALI track for LED source with COB technology, Warm White (3000K) emission. Electronic control gear housed inside the track-mounted power supply box. The luminaire is made of die-cast aluminium and thermoplastic. OPTI BEAM superpure aluminium reflector with high luminous efficacy and uniform distribution, wide flood optic. Features 90° inclination on the horizontal plane and 360° rotation around the vertical axis, with mechanical locking device for aiming. Passive cooling system. Possibility of installing a refractor, to be ordered separately, for elliptical light beam distribution.

Installation
The luminaire can be installed on a DALI track or on an appropriate channel incorporating an electrified track.



Dimension (mm)
Ø120x197

Colour
White (01) | Black (04)

Weight (Kg)
1.82

Mounting
three circuit track|ceiling surface

Wiring
product inclusive of DALI components incorporated into the track-mounted box.

Complies with EN60598-1 and pertinent regulations

IP20 IP40 for optical assembly

Product configuration: P701

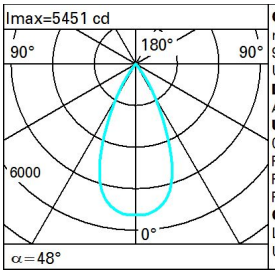
Product characteristics

Total lighting output [Lm]: 3340	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 35.7	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 93.6	Voltage [V]: -
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 76	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.7
Nominal power [W]: 33	Colour temperature [K]: 3000
Nominal luminous [Lm]: 4400	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 48°	MacAdam Step: 2

Polar



CIE
nL 0.76
99-100-100-100-76
UGR 16.3-16.3
DIN
A.61
UTE
0.76A+0.00T
F"1=991
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<19 | L<1500 cd/mq @65°

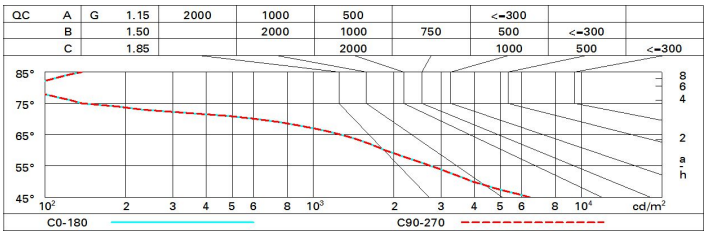
Lux

h	d	Em	Emax
2	1.8	1086	1361
4	3.6	272	340
6	5.3	121	151
8	7.1	68	85

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	68	65	62	60	64	62	61	59	78
1.0	71	68	66	64	67	65	65	63	82
1.5	75	73	71	69	72	70	69	67	88
2.0	77	76	74	73	74	73	72	70	93
2.5	79	77	76	75	76	75	75	73	95
3.0	80	79	78	77	78	77	76	74	98
4.0	81	80	79	79	79	78	77	75	99
5.0	81	81	80	80	79	79	78	76	100

Luminance curve limit



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	16.9	17.4	17.2	17.7	17.9	16.9	17.4	17.2	17.7	17.9
	3H	16.7	17.2	17.1	17.5	17.8	16.8	17.2	17.1	17.5	17.8
	4H	16.7	17.1	17.0	17.4	17.7	16.7	17.1	17.0	17.4	17.7
	6H	16.6	17.0	16.9	17.3	17.7	16.6	17.0	16.9	17.3	17.7
	8H	16.6	17.0	16.9	17.3	17.6	16.6	17.0	16.9	17.3	17.6
	12H	16.5	16.9	16.9	17.3	17.6	16.5	16.9	16.9	17.3	17.6
4H	2H	16.7	17.1	17.0	17.4	17.7	16.7	17.1	17.0	17.4	17.7
	3H	16.5	16.9	16.9	17.3	17.6	16.5	16.9	16.9	17.3	17.6
	4H	16.4	16.8	16.8	17.2	17.5	16.4	16.8	16.8	17.2	17.5
	6H	16.4	16.7	16.8	17.0	17.5	16.4	16.7	16.8	17.0	17.5
	8H	16.3	16.6	16.7	17.0	17.4	16.3	16.6	16.7	17.0	17.4
	12H	16.3	16.5	16.7	16.9	17.4	16.3	16.5	16.7	16.9	17.4
8H	4H	16.3	16.6	16.7	17.0	17.4	16.3	16.6	16.7	17.0	17.4
	6H	16.2	16.4	16.7	16.9	17.4	16.2	16.4	16.7	16.9	17.4
	8H	16.2	16.3	16.6	16.8	17.3	16.2	16.3	16.6	16.8	17.3
	12H	16.1	16.3	16.6	16.8	17.3	16.1	16.3	16.6	16.8	17.3
12H	4H	16.3	16.5	16.7	16.9	17.4	16.3	16.5	16.7	16.9	17.4
	6H	16.2	16.3	16.6	16.8	17.3	16.2	16.4	16.6	16.8	17.3
	8H	16.1	16.3	16.6	16.8	17.3	16.1	16.3	16.6	16.8	17.3

Variations with the observer position at spacing:

S =			
	1.0H	6.4 / -15.1	6.4 / -15.1
	1.5H	9.2 / -17.5	9.2 / -17.5
	2.0H	11.2 / -20.3	11.2 / -20.3