Robin

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Product configuration: PV93.01
PV93.01: Robin spotlight Ø51 for installation on a 48V low voltage track - DALI Powerline - 18W 1213.6lm - 3000K - CRI 90 - White

Product code
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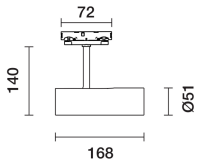
Technical description
Miniaturised adjustable spotlight with adapter for installation on a 48V Filorail low voltage track. The thermoplastic adapters are designed so they can be installed even in the curved track sections. Die-cast aluminium body with an ideal passive dissipation system to guarantee a long life and effective heat management. Driver circuit with DALI Powerline technology that allows each spotlight on the track to be adjusted independently. This offers a remarkable level of flexibility and lighting control. The swivel joints allow the spotlight to be rotated by 360° and tilted by 160°. The set back position of the optic unit guarantees a high level of visual comfort. A high definition thermoplastic lens with the option of using additional accessories to create other light effects. A rapid tool-free system for connecting the adapter electrically and mechanically to the track.

Installation
On a low voltage Filorail track. A tool-free system for connecting the product electrically and mechanically to the track.



Colour	**Weight (Kg)**
White (01)	0.45

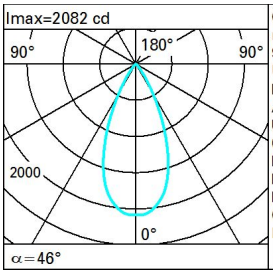
Wiring
LED driver integrated in product body - direct connection on 48V track. Track power supply unit to be ordered separately.

Complies with EN60598-1 and pertinent regulations

Technical data

lm system:	1214	Colour temperature [K]:	3000
W system:	18	MacAdam Step:	2
lm source:	1640	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	17	Voltage [Vin]:	48
Luminous efficiency (lm/W, real value):	67.4	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	74	Number of optical assemblies:	1
Beam angle [°]:	46°	Power factor:	See installation instructions
CRI (minimum):	90	Control:	DALI

Polar



CIE
nL 0.74
98-100-100-100-74
UGR 19.4-19.4
DIN
A.61
UTE
0.74A+0.00T
F"1=979
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<3000 cd/m² at 65°

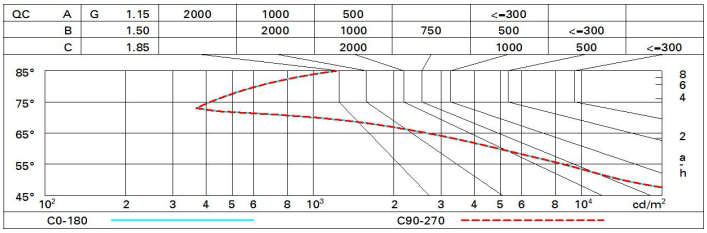
Lux

h	d	Em	Emax
2	1.7	405	520
4	3.4	101	130
6	5.1	45	58
8	6.7	25	33

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	63	60	58	62	60	59	57	77
1.0	69	66	64	62	65	63	63	60	82
1.5	73	70	69	67	70	68	67	65	88
2.0	75	73	72	71	72	71	70	68	92
2.5	77	75	74	73	74	73	72	70	95
3.0	78	77	76	75	75	75	74	72	97
4.0	78	78	77	77	77	76	75	73	99
5.0	79	78	78	78	77	77	76	74	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1640 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 crosswise					viewed endwise		
x	y										
2H	2H	20.0	20.6	20.3	20.8	21.1	20.0	20.6	20.3	20.8	21.1
	3H	19.9	20.4	20.2	20.7	20.9	19.9	20.4	20.2	20.7	20.9
	4H	19.8	20.3	20.1	20.6	20.9	19.8	20.3	20.2	20.6	20.9
	6H	19.7	20.2	20.1	20.5	20.8	19.7	20.2	20.1	20.5	20.8
	8H	19.7	20.1	20.1	20.4	20.8	19.7	20.1	20.1	20.5	20.8
	12H	19.7	20.1	20.0	20.4	20.8	19.7	20.1	20.0	20.4	20.8
4H	2H	19.8	20.3	20.2	20.6	20.9	19.8	20.3	20.1	20.6	20.9
	3H	19.7	20.1	20.0	20.4	20.8	19.7	20.1	20.0	20.4	20.8
	4H	19.6	19.9	20.0	20.3	20.7	19.6	19.9	20.0	20.3	20.7
	6H	19.5	19.8	19.9	20.2	20.6	19.5	19.8	19.9	20.2	20.6
	8H	19.4	19.7	19.9	20.1	20.6	19.4	19.7	19.9	20.1	20.6
	12H	19.4	19.7	19.9	20.1	20.5	19.4	19.7	19.9	20.1	20.5
8H	4H	19.4	19.7	19.9	20.1	20.6	19.4	19.7	19.9	20.1	20.6
	6H	19.4	19.6	19.8	20.0	20.5	19.4	19.6	19.8	20.0	20.5
	8H	19.3	19.5	19.8	20.0	20.5	19.3	19.5	19.8	20.0	20.5
	12H	19.2	19.4	19.8	19.9	20.4	19.2	19.4	19.7	19.9	20.4
12H	4H	19.4	19.7	19.9	20.1	20.5	19.4	19.7	19.9	20.1	20.5
	6H	19.3	19.5	19.8	20.0	20.5	19.3	19.5	19.8	20.0	20.5
	8H	19.2	19.4	19.7	19.9	20.4	19.2	19.4	19.8	19.9	20.4

Variations with the observer position at spacing:

S =			
	1.0H	5.4 / -13.1	5.4 / -13.1
	1.5H	8.2 / -16.8	8.2 / -16.8
	2.0H	10.2 / -20.4	10.2 / -20.4