Palco Pro

Design Artec Studio **iGuzzini**

Last information update: March 2025

Product configuration: RQ51
RQ51: Ø62mm body - dimmable electronic DALI - WideFlood optic

Product code
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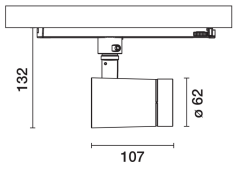
Technical description
Adjustable spotlight with adapter for installation on an electrified track. High chromatic yield LED lamp with 3000K tone and OptiBeam Lens optic system and WideFlood optic. DALI dimmable electronic power supply integrated in product track adapter. Luminaire made of die-cast aluminium and thermoplastic material that allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane with mechanical aiming locks. Passive heat dissipation. Spotlight with “Push&Go” system designed to hold up to three flat accessories at the same time. The same system can also be used to apply another external component selected from the directional flaps and anti-glare screen. All internal accessories rotate 360° about the spotlight longitudinal axis.

Installation
Installation on an electrified track.



Colour
White (01) | Black (04)

Weight (Kg)
0.51

Mounting
three circuit track|wall surface|three circuit track pendant|ceiling surface

Wiring
Electronic components integrated in product.

Complies with EN60598-1 and pertinent regulations

IP20 IP40 for optical assembly

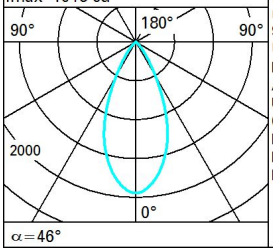
Technical data

lm system:	1215
W system:	19.3
lm source:	1620
W source:	17
Luminous efficiency (lm/W, real value):	63
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	75
Beam angle [°]:	46°
CRI (minimum):	90
Colour temperature [K]:	3000

MacAdam Step:	2
Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Power factor:	See installation instructions
Inrush current:	5 A / 50 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 31 luminaires B16A: 50 luminaires C10A: 52 luminaires C16A: 85 luminaires
Overvoltage protection:	4kV Common mode & 2kV Differential mode
Control:	DALI-2

Polar

Imax=1943 cd



α=46°

CIE
nL 0.75
95-100-100-100-75
UGR 21.4-21.4
DIN
A.61
UTE
0.75A+0.00T
F"1=950
F"1+F"2=997
F"1+F"2+F"3=1000

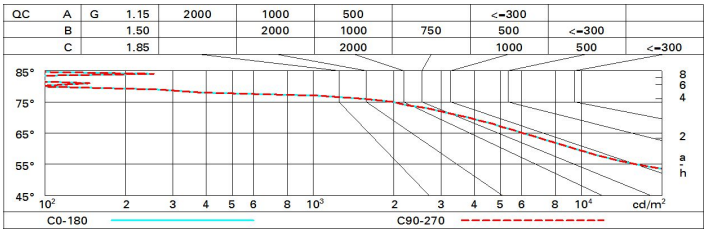
Lux

h	d	Em	Emax
2	1.7	368	486
4	3.4	92	121
6	5.1	41	54
8	6.8	23	30

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	62	59	57	61	59	59	56	75
1.0	69	66	63	61	65	63	62	60	80
1.5	73	71	69	67	70	68	67	65	86
2.0	76	74	72	71	73	71	71	68	91
2.5	77	76	75	74	75	74	73	71	94
3.0	78	77	76	75	76	75	74	72	96
4.0	79	78	78	77	77	77	76	74	98
5.0	80	79	79	78	78	77	76	74	99

Luminance curve limit



UGR diagram

Corrected UGR values (at 1620 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	21.9	22.5	22.2	22.7	23.0	21.9	22.5	22.2	22.7	23.0
	3H	21.8	22.3	22.1	22.6	22.9	21.8	22.3	22.1	22.6	22.9
	4H	21.7	22.2	22.0	22.5	22.8	21.7	22.2	22.0	22.5	22.8
	6H	21.6	22.1	22.0	22.4	22.7	21.6	22.1	22.0	22.4	22.7
	8H	21.6	22.1	22.0	22.4	22.7	21.6	22.1	22.0	22.4	22.7
	12H	21.6	22.0	21.9	22.3	22.7	21.6	22.0	21.9	22.3	22.7
4H	2H	21.7	22.2	22.0	22.5	22.8	21.7	22.2	22.0	22.5	22.8
	3H	21.6	22.0	22.0	22.4	22.7	21.6	22.0	22.0	22.3	22.7
	4H	21.5	21.9	21.9	22.2	22.6	21.5	21.9	21.9	22.2	22.6
	6H	21.4	21.7	21.8	22.1	22.6	21.4	21.7	21.8	22.1	22.6
	8H	21.4	21.7	21.8	22.1	22.5	21.4	21.7	21.8	22.1	22.5
	12H	21.3	21.6	21.8	22.0	22.5	21.3	21.6	21.8	22.0	22.5
8H	4H	21.4	21.7	21.8	22.1	22.5	21.4	21.7	21.8	22.1	22.5
	6H	21.3	21.5	21.7	22.0	22.4	21.3	21.5	21.7	22.0	22.4
	8H	21.2	21.4	21.7	21.9	22.4	21.2	21.4	21.7	21.9	22.4
	12H	21.2	21.3	21.7	21.8	22.4	21.2	21.3	21.7	21.8	22.4
12H	4H	21.3	21.6	21.8	22.0	22.5	21.3	21.6	21.8	22.0	22.5
	6H	21.2	21.4	21.7	21.9	22.4	21.2	21.4	21.7	21.9	22.4
	8H	21.2	21.3	21.7	21.8	22.4	21.2	21.3	21.7	21.8	22.4

Variations with the observer position at spacing:

S =			
	1.0H	4.3 / -9.9	4.3 / -9.9
	1.5H	7.0 / -13.3	7.0 / -13.3
	2.0H	9.0 / -15.4	9.0 / -15.4