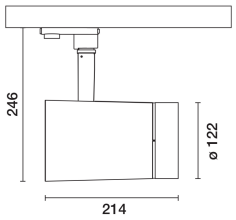
Palco Pro

Design Artec Studio **iGuzzini**

Last information update: March 2025

Product configuration: PY51
PY51: Ø122mm body - BLE Casambi - Wide Flood optic



Product code
PY51: Ø122mm body - BLE Casambi - Wide Flood optic

Technical description
Adjustable spotlight with adapter for installation on an electrified track or base. High chromatic yield LED lamp with 3500K tone and OptiBeam Lens optic system and Wide Flood optic. 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. Body complete with dimmable power supply unit and Casambi protocol. The components used allow the products to be controlled with the Casambi system app and components, enabling on-off, dimming and scene recall functions and allowing multiple luminaires to operate in a Casambi mesh network. 2.4 GHz bluetooth frequency. The app is available on the Apple Store and Google Play Store. Integrated Beacon that can be activated via an app (iBeacon) that enables smart functions for third party applications and the Jiminy Push Notification app.

Installation
Installation on an electrified track or base.

Colour
White (01) | Black (04)

Weight (Kg)
2.13

Mounting
wall surface|ceiling surface

Wiring
Electronic components integrated in product

Notes
Max distance between products 8 m.
The maximum distance is affected by physical obstacles, like walls, metal panels and the layout of the system.

Complies with EN60598-1 and pertinent regulations

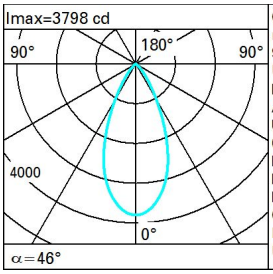
IP20 IP40 for optical assembly pending pending

Technical data

lm system:	2460
W system:	29.3
lm source:	3280
W source:	26
Luminous efficiency (lm/W, real value):	84
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]:	3500
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:	20 A / 25 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 34 luminaires B16A: 55 luminaires C10A: 57 luminaires C16A: 93 luminaires
Minimum dimming %:	1
Overvoltage protection:	2kV Common mode & 1kV Differential mode
Control:	Casambi

Polar



CIE
nL 0.75
94-100-100-100-75
UGR 17.6-17.6
DIN
A.61
UTE
0.75A+0.00T
F"1=944
F"1+F"2=996
F"1+F"2+F"3=1000
CIBSE
LG3 L<3000 cd/m² at 65°
UGR<19 | L<3000 cd/mq @65°

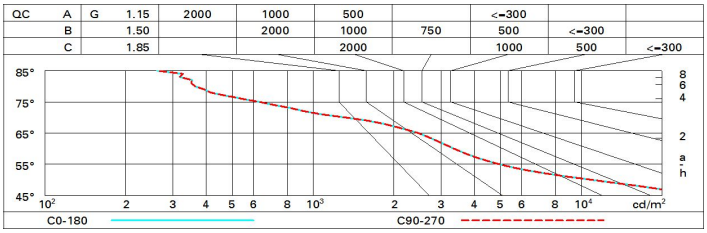
Lux

h	d	Em	Emax
2	1.7	727	950
4	3.4	182	237
6	5.1	81	106
8	6.9	45	59

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	62	59	57	61	59	58	56	74
1.0	69	66	63	61	65	62	62	60	79
1.5	73	71	68	67	70	68	67	65	86
2.0	76	74	72	71	73	71	70	68	91
2.5	77	76	75	73	75	73	73	71	94
3.0	78	77	76	75	76	75	74	72	96
4.0	79	78	78	77	77	77	75	73	98
5.0	80	79	79	78	78	77	76	74	99

Luminance curve limit



UGR diagram

Corrected UGR values (at 3280 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	18.2	18.8	18.4	19.0	19.3	18.2	18.8	18.4	19.0	19.3
	3H	18.0	18.6	18.4	18.9	19.1	18.0	18.6	18.4	18.9	19.1
	4H	18.0	18.5	18.3	18.8	19.1	18.0	18.5	18.3	18.8	19.1
	6H	17.9	18.4	18.2	18.7	19.0	17.9	18.4	18.2	18.7	19.0
	8H	17.9	18.3	18.2	18.6	19.0	17.9	18.3	18.2	18.6	19.0
	12H	17.8	18.3	18.2	18.6	18.9	17.8	18.3	18.2	18.6	18.9
4H	2H	18.0	18.5	18.3	18.8	19.1	18.0	18.5	18.3	18.8	19.1
	3H	17.8	18.3	18.2	18.6	19.0	17.8	18.3	18.2	18.6	19.0
	4H	17.8	18.1	18.2	18.5	18.9	17.8	18.1	18.2	18.5	18.9
	6H	17.7	18.0	18.1	18.4	18.8	17.7	18.0	18.1	18.4	18.8
	8H	17.6	17.9	18.1	18.3	18.8	17.6	17.9	18.1	18.3	18.8
	12H	17.6	17.9	18.0	18.3	18.7	17.6	17.9	18.0	18.3	18.7
8H	4H	17.6	17.9	18.1	18.3	18.8	17.6	17.9	18.1	18.3	18.8
	6H	17.5	17.8	18.0	18.2	18.7	17.5	17.8	18.0	18.2	18.7
	8H	17.5	17.7	18.0	18.2	18.7	17.5	17.7	18.0	18.2	18.7
	12H	17.4	17.6	17.9	18.1	18.6	17.4	17.6	17.9	18.1	18.6
12H	4H	17.6	17.9	18.0	18.3	18.7	17.6	17.9	18.0	18.3	18.7
	6H	17.5	17.7	18.0	18.2	18.7	17.5	17.7	18.0	18.2	18.7
	8H	17.4	17.6	17.9	18.1	18.6	17.4	17.6	17.9	18.1	18.6

Variations with the observer position at spacing:

S =			
	1.0H	4.1 / -9.7	4.1 / -9.7
	1.5H	6.8 / -12.0	6.8 / -12.0
	2.0H	8.8 / -13.9	8.8 / -13.9