

## Palco Pro

Design Artec  
Studio

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### Product configuration: PY55

PY55: Ø122mm body - BLE Casambi - Wide Flood optic



### Product code

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### 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. Dimmable electronic DALI power supply integrated in product. 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 or base.

### Colour

White (01) | Black (04)

### Weight (Kg)

2.13

### Mounting

wall surface/ceiling surface

### Wiring

Electronic components integrated in product

Complies with EN60598-1 and pertinent regulations



### Technical data

Im system:	2153	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	29.3	Lamp code:	LED
Im source:	2870	Number of lamps for optical assembly:	1
W source:	26	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	73.5	Number of optical assemblies:	1
Im in emergency mode:	-	Power factor:	See installation instructions
Total light flux at or above an angle of 90° [Lm]:	0	Inrush current:	20 A / 25 µs
Light Output Ratio (L.O.R.) [%]:	75	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 34 luminaires B16A: 55 luminaires C10A: 57 luminaires C16A: 93 luminaires
Beam angle [°]:	46°	Minimum dimming %:	1
CRI (minimum):	97	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	3500	Control:	Casambi
MacAdam Step:	2		

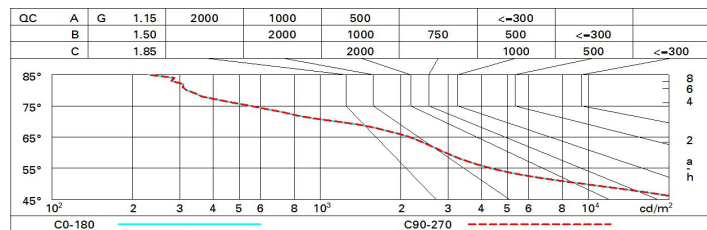
### Polar

Imax=3323 cd		CIE		Lux			
90°	180°	nL 0.75	94-100-100-100-75	h	d	Em	Emax
		UGR 17.2-17.2	DIN A.61	2	1.7	637	831
		UTE 0.75A+0.00T	F*1=944	4	3.4	159	208
		F*1+F*2=996	F*1+F*2+F*3=1000	6	5.1	71	92
		CIBSE LG3 L<3000 cd/m² at 65°	UGR<19   L<3000 cd/mq @65°	8	6.9	40	52
α=46°							

# 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 2870 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
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		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	17.7	18.3	18.0	18.5	18.8	17.7	18.3	18.0	18.5	18.8
	3H	17.6	18.1	17.9	18.4	18.7	17.6	18.1	17.9	18.4	18.7
	4H	17.5	18.0	17.8	18.3	18.6	17.5	18.0	17.8	18.3	18.6
	6H	17.4	17.9	17.8	18.2	18.5	17.4	17.9	17.8	18.2	18.5
	8H	17.4	17.9	17.8	18.2	18.5	17.4	17.9	17.8	18.2	18.5
	12H	17.4	17.8	17.7	18.1	18.5	17.4	17.8	17.7	18.1	18.5
4H	2H	17.5	18.0	17.8	18.3	18.6	17.5	18.0	17.8	18.3	18.6
	3H	17.4	17.8	17.8	18.2	18.5	17.4	17.8	17.7	18.2	18.5
	4H	17.3	17.7	17.7	18.0	18.4	17.3	17.7	17.7	18.0	18.4
	6H	17.2	17.5	17.6	17.9	18.4	17.2	17.5	17.6	17.9	18.4
	8H	17.2	17.5	17.6	17.9	18.3	17.2	17.5	17.6	17.9	18.3
	12H	17.1	17.4	17.6	17.8	18.3	17.1	17.4	17.6	17.8	18.3
8H	4H	17.2	17.5	17.6	17.9	18.3	17.2	17.5	17.6	17.9	18.3
	6H	17.1	17.3	17.5	17.8	18.2	17.1	17.3	17.5	17.8	18.2
	8H	17.0	17.2	17.5	17.7	18.2	17.0	17.2	17.5	17.7	18.2
	12H	17.0	17.2	17.5	17.6	18.2	17.0	17.2	17.5	17.6	18.2
12H	4H	17.1	17.4	17.6	17.8	18.3	17.1	17.4	17.6	17.8	18.3
	6H	17.0	17.2	17.5	17.7	18.2	17.0	17.2	17.5	17.7	18.2
	8H	17.0	17.2	17.5	17.6	18.2	17.0	17.2	17.5	17.6	18.2
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				