

PABLO focus

180-5221137



Project / Type

Notes

Count / Date



General

Ceiling | Track

tilt max 310°

rotation 360°

traffic white | RAL 9016

IP20

754¹-1280² lm

LED

4000 K

CRI ≥ 95

L90 / 50000 h

initial MacAdam ≤ 2 SDCM

R_g: 98 | R_f: 91 | R₍₁₋₁₅₎: 96

MR 0.85 | MDER 0.77

Optical

focus | beam angle 17°¹-47°²

PstLM ≤ 1.0² 1³ | SVM ≤ 0.4² 1³

Electrical

DALI-2 | 1 DALI Addr.

PC1 | 220-240 V

system 23.0 W

system 33¹-56² lm/W ⁴

Physical

diameter 70 mm | height 106 mm

0.9 kg

tool-free fixation

Track light made of die-cast aluminium; surface traffic white powder coated; 360° rotatable and 310° tiltable; converter installed in aluminium spotlight housing; passive cooling of the LEDs through improved heat sink geometry; with COB (Chip on Board) technology for maximum efficiency; no appearance of multiple shadows; light colour 4000 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 95; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. high quality plano-convex glass lens; precise object focusing through adjustable lens; adjustable beam angle of 17° - 47°; focusing by means of rubberised adjusting ring on the spotlight head; degree of protection IP20; PC1; 220-240 V; adapter for toolless insertion or movement on a variety of 3-phase power tracks; adapter fixation without tools by means of knurled screw; incl. DALI-2 converter; point outlet, either in surface mounted housing or recessed housing, available as an accessory; accessories are listed separately; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

Light distribution



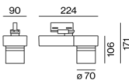
focus 47°

h (m)	E0° (lx)	ø (m)
1	2210	0.87
2	550	1.74
3	250	2.60
4	140	3.47
5	90	4.34

focus 17°

h (m)	E0° (lx)	ø (m)
1	5380	0.30
2	1350	0.60
3	600	0.89
4	340	1.19
5	220	1.49

Product drawing



Installation instructions



Lighting calculator



[180-5221137] The technical data represent rated values for an ambient temperature of 25°C. The data values for the luminous flux are initially subject to a tolerance of +/- 10%, those for the electrical connected load are initially subject to a tolerance of +/- 10%, and those for the colour temperature are initially subject to a tolerance of +/- 150 K. No liability is assumed for typographical or printing errors. The general terms and conditions of XAL GmbH apply.
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Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.97	0.95	0.93	0.91	0.9
LSF	1	1	1	1	1

MF	LMF × RSMF × LLMF × LSF	RSMF ^a	Room Surface Maintenance Factor
MF	Maintenance Factor	LLMF	Lamp Lumens Maintenance Factor
LMF ^a	Luminaire Maintenance Factor	LSF	Lamp Survival Factor

^a According to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.

Circuit Breaker Types

Automatic Circuit Breaker Type	Number of Fixtures
B10	45
B16	80

Mounting accessories

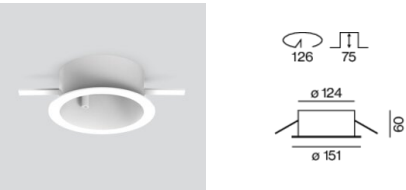
SURFACE HOUSING / POINT OUTLET

COLOUR	Ø (MM)	ARTICLE NUMBER(S)
traffic white	120	186-072287
jet black	120	186-072288



RECESSED HOUSING / POINT OUTLET

TYPE	COLOUR	Ø (MM)	ARTICLE NUMBER(S)
ceiling thickness	traffic white	151	186-072277
ceiling thickness	jet black	151	186-072278



Optical accessories

SNOOT

COLOUR	Ø (MM)	ARTICLE NUMBER(S)
jet black	62	080-590008



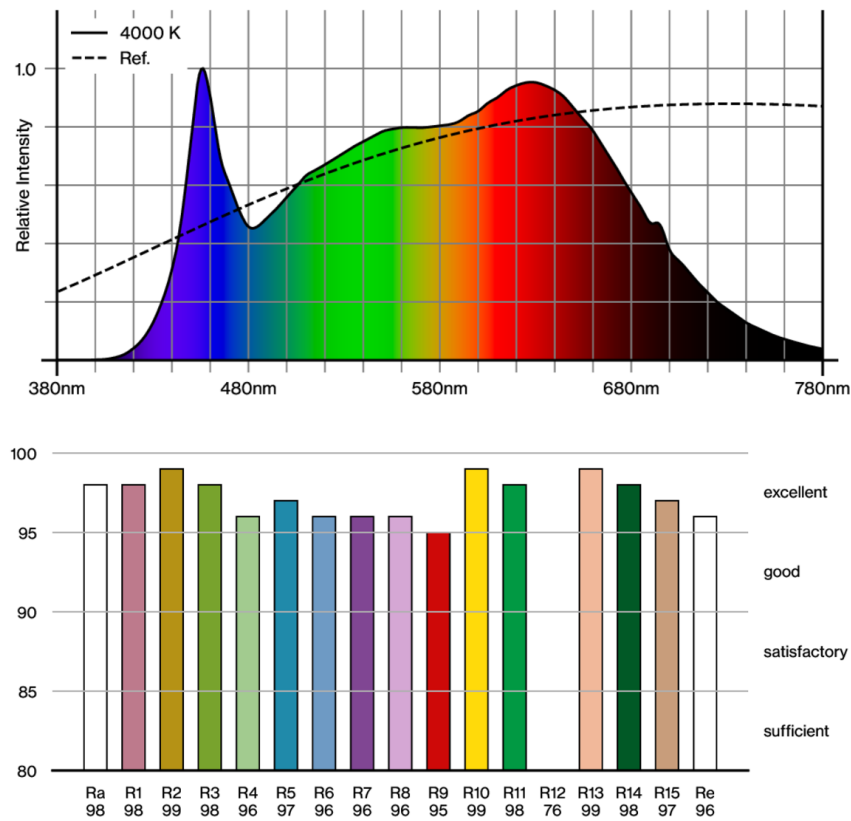
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TYPE	COLOUR	Ø (MM)	ARTICLE NUMBER(S)
for BO 70 PABLO	jet black	61	080-5900018





Colour rendering



TM30 colour vector graphic



The black line represents the black body reference. The red line indicates the results of the test light source. The deviation from the test light source to the reference is shown and is marked by arrows. The shorter the arrows, the higher the color rendering.