

PHOS
ENGINEERING LIGHT

PANO SURFACE GRAZER 180
STANDARD

PANO SURFACE GRAZER 180 - STANDARD

The Pano Midi Surface Grazer 180 is a semi-recessed, fixed in-ground or wall light luminaire with a $\varnothing 54\text{mm}$ domed bezel. It features a 180° aperture and is designed to "graze" light across the floor/wall.

PRODUCT FEATURES

- Uplight / Wall Light

- Fixed

- Interior / Exterior

- LED

- IP67

- Available in all Phos finishes

- Interchangeable optics & accessories (pre & post install)

PHOS STANDARDS

- 60min fire-certified

- Acoustic-rated

- UK designed, manufactured and assembled

- 5 year warranty

OPTICS

- Standard beam angles:
 180°

PHYSICAL PROPERTIES

- Diameter $\varnothing 54\text{mm}$

- Height 70mm (4W/9W)

- Height 95mm (14W)

- Cut-out $\varnothing 45\text{mm}$

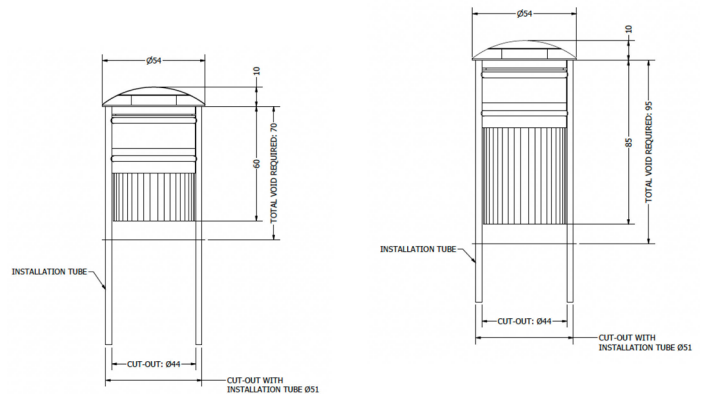
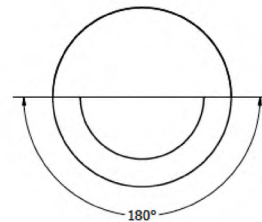
DRIVER INFORMATION

[Driver Configurator \(Link\)](#)

PRODUCT VIEW



DIMENSIONS



4W & 9W

14W

TECHNICAL SPECIFICATIONS

CCT	2700K		
Wattage	4W	9W	14W
Beam Angles	180°		
Luminaire Lumens (lm)	106	175	231
Circuit Watts (c/W)	5.8	10.3	15.4
Luminaire Efficacy (l/cW)	18	17	15
Luminance (Cd)	19	31	41
Forward Voltage (Vf)	11.78	12.36	12.65
Current (mA)	350	700	1050

CCT	3000K		
Wattage	4W	9W	14W
Beam Angles	180°		
Luminaire Lumens (lm)	119	201	276
Circuit Watts (c/W)	5.9	10.4	15.6
Luminaire Efficacy (l/cW)	20	19	18
Luminance (Cd)	21	36	49
Forward Voltage (Vf)	11.78	12.36	12.65
Current (mA)	350	700	1050

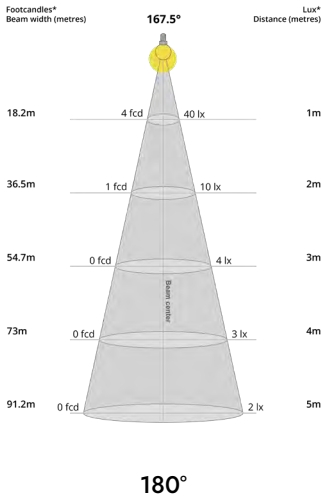
Binning	2 step MacAdams
CRI	90+
TM-30-15	Rg 101 Rf 90
Lumen Maintenance	LM80
Lifetime	50,000 hours

Dimming Options	Mains dim / Non-dim / 0-10V / DALI (dim to dark 0.01%) / Casambi
Flicker Index	0
SVM: (Visual Flicker)	0.02

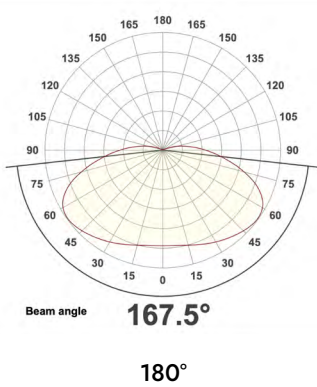
Driver distance from fitting	Up to 10m (AWG 20)*
Wiring Type	Series
Accessories	Remote emergency (Maintained / Self Test)

*If driver distance from fitting is +10m see driver configurator document for guidance

LIGHT CONES



POLAR CURVES



PARTCODE BUILDER

Example Code: MD-PS180-WT-STD14-30-90-45-1050

Variant	Family	Bezel Finish	Engine	Power	CCT	CRI	Beam Angle	Driver Current
MD Midi	PS180 Pano Surface Grazer 180	WT White Textured B1 Anodised Black *C Custom	STD Standard	4 Watts	27 2700K 30 3000K	90	45	350 mA
				9 Watts				700 mA
				14 Watts				1050 mA

*Codes for custom finishes can be found on the page 6.

FINISHES

Every element of your light can be finished in any of the options below:

PLATED (Interior ONLY)



Antique Bronze
01



Antique Brass
02



Polished Chrome
03



Satin Nickel
04



Polished Copper
05

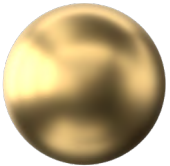


Satin Copper
06

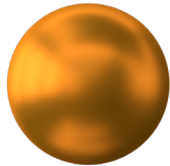


Polished Brass
09

ANODISED (Interior ONLY, except Orba Exteriors)



Tuba Brass
11



Antique Gold
12



Espresso Bronze
13



Cocoa Bronze
14



Ice Gold
15



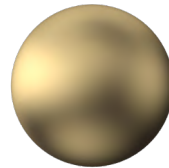
Mocha Bronze
16



Taupe Bronze
17



24K Gold
18



Champagne Gold
19



Anodised Black (9005)
B1

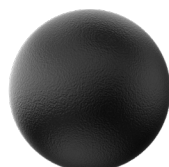
POWDER COAT (Interior & Exterior)



Pure White (9010)
W1



Textured White (9010)
WT



Textured Black (9005)
BT



RAL Classic
www.phos.co.uk/finishes



RAL Design
price on application