

PHOS
ENGINEERING LIGHT

PANO SURFACE GRAZER 90
STANDARD

PANO SURFACE GRAZER 90 - STANDARD

The Pano Midi Surface Grazer 90 is a semi-recessed, fixed in-ground or wall light luminaire with a $\varnothing 54\text{mm}$ domed bezel. It features a 90° aperture and is designed to “graze” light across the floor/wall in which it is mounted.

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:
 90°

PHYSICAL PROPERTIES

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

- Height 70mm (4W/9W)

- Height 95mm (14W)

- Cut-out $\varnothing 44\text{mm}$

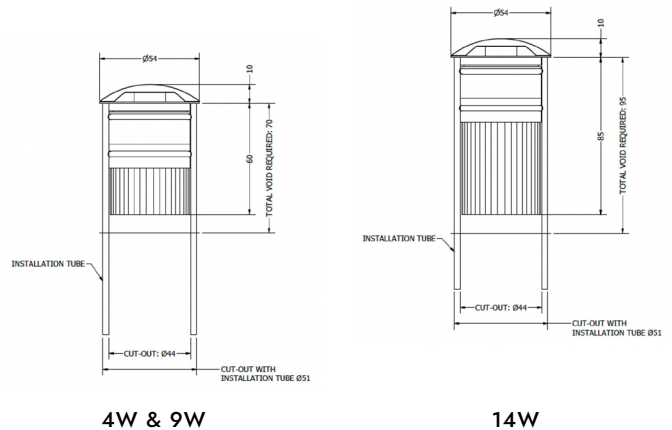
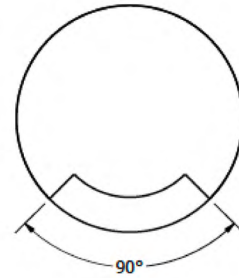
DRIVER INFORMATION

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

PRODUCT VIEW



DIMENSIONS



TECHNICAL SPECIFICATIONS

CCT	2700K		
Wattage	4W	9W	14W
Beam Angles	90°		
Luminaire Lumens (lm)	43	68	91
Circuit Watts (c/W)	5.8	10.3	15.4
Luminaire Efficacy (l/cW)	7	7	6
Luminance (Cd)	28	45	63
Forward Voltage (Vf)	11.78	12.36	12.65
Current (mA)	350	700	1050

CCT	3000K		
Wattage	4W	9W	14W
Beam Angles	90°		
Luminaire Lumens (lm)	46	76	105
Circuit Watts (c/W)	5.9	10.3	15.5
Luminaire Efficacy (l/cW)	8	7	7
Luminance (Cd)	32	53	72
Forward Voltage (Vf)	11.78	12.36	12.65
Current (mA)	350	700	1050

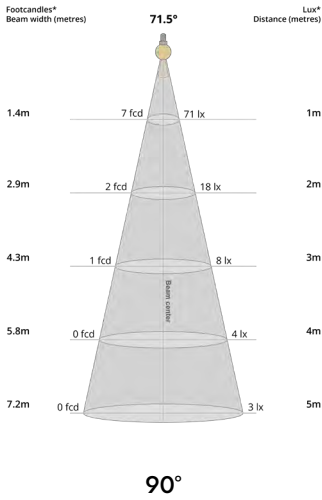
Binning	2 step MacAdams
CRI	90+
TM-30-15	Rg 101 Rf 90
Lumen Maintenance	LM80
Lifetime	50,000 hours

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

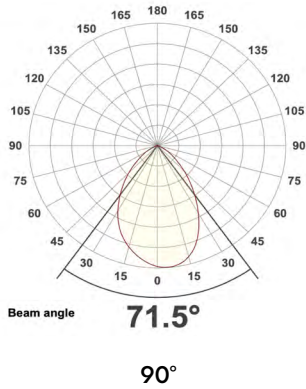
Driver distance from fitting	Up to 10m (AWG 20)*
Wiring Type	Series
Accessories	Remote emergency (Maintained / Self Test)

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

LIGHT CONES



POLAR CURVES



PARTCODE BUILDER

Example Code: MD-PS90-WT-STD14-30-90-45-1050

Variant	Family	Bezel Finish	Engine	Power	CCT	CRI	Beam Angle	Driver Current
MD Midi	PS90 Pano Surface Grazer 90	WT White Textured	STD Standard	4 Watts	27 2700K	90	45	350 mA
		B1 Anodised Black		9 Watts				700 mA
		*C Custom		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



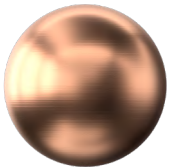
Polished Chrome
03



Satin Nickel
04



Polished Copper
05



Satin Copper
06

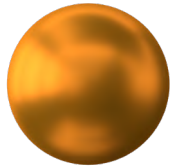


Polished Brass
09

ANODISED (Interior ONLY, except Orba Exteriors)



Tuba Brass
11



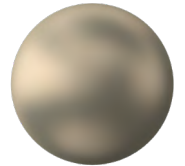
Antique Gold
12



Espresso Bronze
13



Cocoa Bronze
14



Ice Gold
15



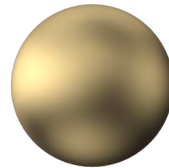
Mocha Bronze
16



Taupe Bronze
17



24K Gold
18



Champagne Gold
19



Anodised Black (9005)
B1

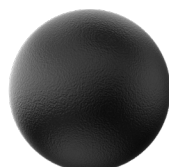
POWDER COAT (Interior & Exterior)



Pure White (9010)
W1



Textured White (9010)
WT



Textured Black (9005)
BT



RAL Classic
www.phos.co.uk/finishes



RAL Design
price on application