

PHOS  
ENGINEERING LIGHT

PANO SURFACE GRAZER 45  
STANDARD

## PANO SURFACE GRAZER 45 - STANDARD

The Pano Midi Surface Grazer 45 is a semi-recessed, fixed in-ground or Wall Light luminaire with a  $\varnothing 54$ mm domed bezel. It features a 45° 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:  
45°

### PHYSICAL PROPERTIES

Diameter  $\varnothing 54$ mm

Height 70mm (4W/9W)

Height 95mm (14W)

Cut-out  $\varnothing 44$ mm

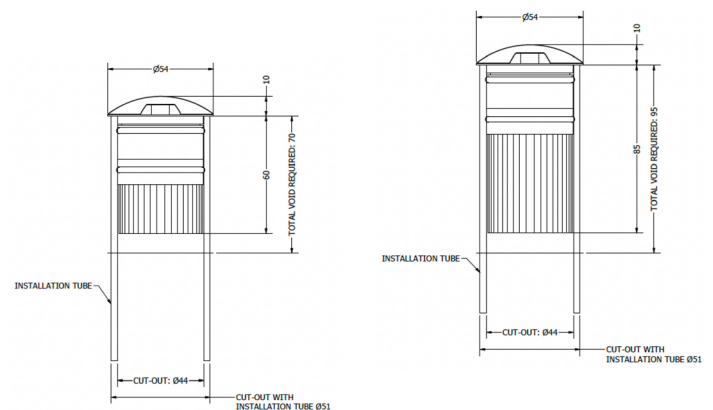
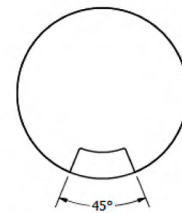
### DRIVER INFORMATION

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

### PRODUCT VIEW



### DIMENSIONS



4W & 9W

14W

## TECHNICAL SPECIFICATIONS

CCT	2700K		
Wattage	4W	9W	14W
Beam Angles	45°		
Luminaire Lumens (lm)	13	21	27
Circuit Watts (c/W)	5.9	10.3	15.4
Luminaire Efficacy (l/cW)	2	2	2
Luminance (Cd)	19	32	43
Forward Voltage (Vf)	11.78	12.36	12.65
Current (mA)	350	700	1050

CCT	3000K		
Wattage	4W	9W	14W
Beam Angles	45°		
Luminaire Lumens (lm)	13	21	32
Circuit Watts (c/W)	5.8	10.3	15.5
Luminaire Efficacy (l/cW)	2	2	2
Luminance (Cd)	17	28	51
Forward Voltage (Vf)	11.78	12.36	12.65
Current (mA)	350	700	1050

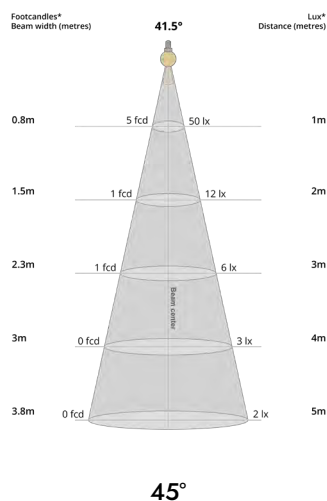
Binning	2 step MacAdams
CRI	90+
TM-30-15	Rg 101 Rf 90
Lumen Maintenance	LM80
Lifetime	50,000 hours

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

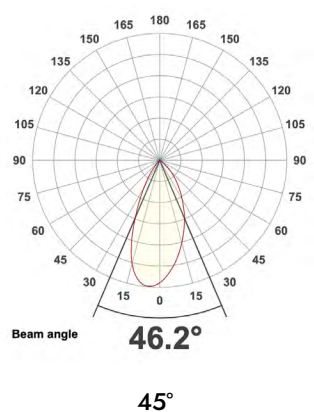
Driver distance from fitting	Up to 10m (AWG 20)*
Wiring Type	Series
Accessories	Remote emergency (Maintained / Self Test)

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

## LIGHT CONES



## POLAR CURVES



## PARTCODE BUILDER

Example Code: MD-PS45-WT-STD14-30-90-45-1050

Variant	Family	Bezel Finish	Engine	Power	CCT	CRI	Beam Angle	Driver Current
<b>MD</b> Midi	<b>PS45</b> Pano Surface Grazer 45	<b>WT</b> White Textured	<b>STD</b> Standard	<b>4</b> Watts	<b>27</b> 2700K	<b>90</b>	<b>45</b>	<b>350</b> mA
		<b>B1</b> Anodised Black		<b>9</b> Watts	<b>30</b> 3000K			<b>700</b> mA
		<b>*C</b> Custom		<b>14</b> Watts				<b>1050</b> 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



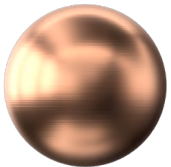
Polished Chrome  
03



Satin Nickel  
04



Polished Copper  
05



Satin Copper  
06

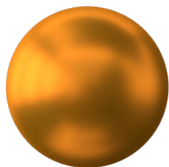


Polished Brass  
09

### ANODISED (Interior ONLY, except Orba Exteriors)



Tuba Brass  
11



Antique Gold  
12



Espresso Bronze  
13



Cocoa Bronze  
14



Ice Gold  
15



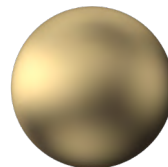
Mocha Bronze  
16



Taupe Bronze  
17



24K Gold  
18



Champagne Gold  
19



Anodised Black (9005)  
B1

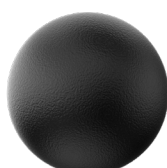
### POWDER COAT (Interior & Exterior)



Pure White (9010)  
W1



Textured White (9010)  
WT



Textured Black (9005)  
BT



RAL Classic  
[www.phos.co.uk/finishes](http://www.phos.co.uk/finishes)



RAL Design  
price on application