PHOS
ENGINEERING LIGHT

NANO PANO

STANDARD

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NANO PANO - STANDARD

The Nano Pano is an incredibly discreet recessed, fixed ground uplight or wall light featuring a Ø36mm minimalist bezel.

PRODUCT FEATURES

Uplight / Wall Light

Fixed

Interior / Exterior

LED

IP67

Available in all Phos finishes

Interchangeable optics & accessories (pre & post install)

PHOS STANDARDS

UK designed, manufactured and assembled

5 year warranty

OPTICS

Standard beam angles:
20°/ 30°/ 40°/ 55°

PHYSICAL PROPERTIES

Diameter Ø36mm

Height 43mm

Cut-out Ø33mm

PRODUCT VIEW

DIMENSIONS

Ø36
Ø21
1
42
TOTAL VOID: 47

INSTALLATION TUBE: Ø33
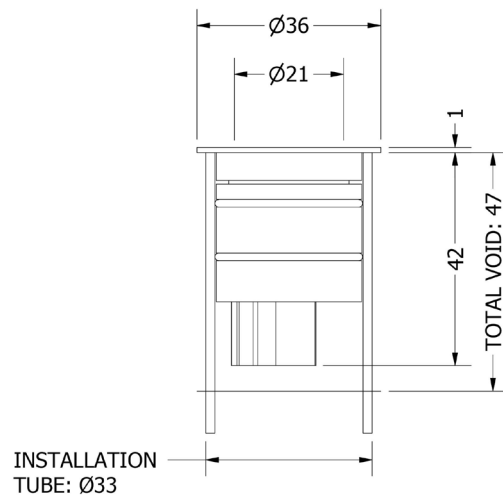
TECHNICAL SPECIFICATIONS

CCT	2700K							
Wattage	1W				3W			
Beam Angles	20°	30°	40°	55°	20°	30°	40°	55°
Luminaire Lumens (lm)	103	107	77.2	83	243	249	192	208
Circuit Watts (c/W)	2.6	2.7	2.6	2.6	5.7	5.8	5.8	5.7
Luminaire Efficacy (l/cW)	39	40	30	32	43	43	33	37
Luminace (Cd)	577	292	126	92.5	1395	717	316	232
Forward Voltage (Vf)	2.78				2.97			
Current (mA)	350				1050			

CCT	3000K							
Wattage	1W				3W			
Beam Angles	20°	30°	40°	55°	20°	30°	40°	55°
Luminaire Lumens (lm)	113	115	86.2	89.8	263	273	209	222
Circuit Watts (c/W)	2.7	2.6	2.6	2.6	5.7	5.7	5.7	5.8
Luminaire Efficacy (l/cW)	42	43	33	34	46	48	37	39
Luminance (Cd)	593	307	138	102	1443	795	342	252
Forward Voltage (Vf)	2.78				2.97			
Current (mA)	350				1050			

Binning	2 step MacAdams
CRI	90+
TM-30-15	Rg 96.87 Rf 91.58
Lumen Maintenance	LM80
Lifetime	50,000 hours

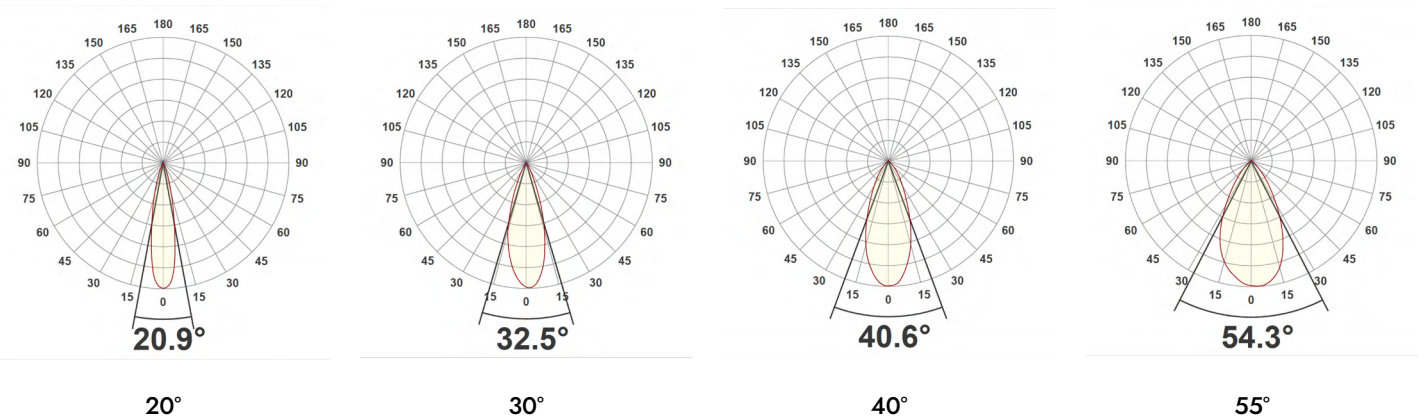|	
Dimming Options	Mains dim / Non-dim / 0-10V / DALI (dim to dark 0.01%) / Casambi
Flicker Index	0
SVM: (Visual Flicker)	0.02

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

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LIGHT CONES

Footcandles* Beam width (metres)	20.9°		Lux* Distance (metres)
0.4m	134 fcd	1443 lx	1m
0.7m	34 fcd	361 lx	2m
1.1m	15 fcd	160 lx	3m
1.5m	8 fcd	90 lx	4m
1.8m	5 fcd	58 lx	5m

20°

Footcandles* Beam width (metres)	32.5°		Lux* Distance (metres)
0.6m	73 fcd	789 lx	1m
1.2m	18 fcd	197 lx	2m
1.7m	8 fcd	88 lx	3m
2.3m	5 fcd	49 lx	4m
2.9m	3 fcd	32 lx	5m

30°

Footcandles* Beam width (metres)	40.6°		Lux* Distance (metres)
0.7m	32 fcd	342 lx	1m
1.5m	8 fcd	85 lx	2m
2.2m	4 fcd	38 lx	3m
3m	2 fcd	21 lx	4m
3.7m	1 fcd	14 lx	5m

40°

Footcandles* Beam width (metres)	54.3°		Lux* Distance (metres)
1m	23 fcd	251 lx	1m
2.1m	6 fcd	63 lx	2m
3.1m	3 fcd	28 lx	3m
4.1m	1 fcd	16 lx	4m
5.1m	1 fcd	10 lx	5m

55°

POLAR CURVES

20.9° — 20°
32.5° — 30°
40.6° — 40°
54.3° — 55°

PARTCODE BUILDER

Example Code: **NA-P-WT-STD1-30-90-20-350**

Family	Variant	Bezel Finish	Engine	Power	CCT	CRI	Beam Angle	Driver Current
NA Nano	**P** Pano	**WT** White Textured	**STD** Standard	**1** Watts	**27** 2700K	**90**	**20**	**350**
		B1 Anodised Black			**30** 3000K		**30**	
		*C Custom		**3** Watts			**40**	**1050**
							55	

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

ACCESSORIES (multiple inserts available per fitting)

Commissioning Tool (Plastic)
ACCS-TOOL-P-BAFFLE

SNOOT
ACCS-SNOOT

Honeycomb Recessed
ACCS-RECESSED-HCOMB

Honeycomb Flush
ACCS-FLUSH-HCOMB

Softening Insert Recessed
ACCS-RECESSED-SOFT

Softening Insert Flush
ACCS-FLUSH-SOFT

Opal Insert Recessed
ACCS-RECESSED-OPAL

Opal Insert Flush
ACCS-FLUSH-OPAL

Elliptical Insert Recessed
ACCS-RECESSED-10X60ELIPTICAL

Elliptical Insert Flush
ACCS-FLUSH-10X60ELIPTICAL

Colour Change Insert Recessed
ACCS-RECESSED-FILTER18K
ACCS-RECESSED-FILTER22K
ACCS-RECESSED-FILTER24K
ACCS-RECESSED-FILTER25K

Colour Change Insert Flush
ACCS-FLUSH-FILTER18K
ACCS-FLUSH-FILTER22K
ACCS-FLUSH-FILTER24K
ACCS-FLUSH-FILTER25K

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FINISHES

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

PLATED (Interior ONLY)

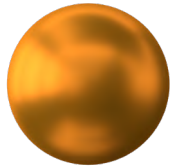| Antique Bronze 01 | Antique Brass 02 | Polished Chrome 03 | Satin Nickel 04 | Polished Copper 05 |

| Satin Copper 06 | Polished Brass 09 |

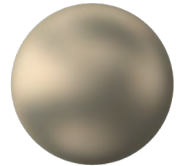### ANODISED (Interior ONLY, except Orba Exteriors)

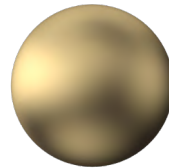| Tuba Brass 11 | Antique Gold 12 | Espresso Bronze 13 | Cocoa Bronze 14 | Ice Gold 15 |

| Mocha Bronze 16 | Taupe Bronze 17 | 24K Gold 18 | Champagne Gold 19 | Anodised Black (9005) B1 |

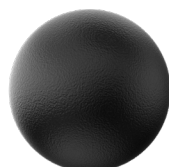### POWDER COAT (Interior & Exterior)

| Pure White (9010) W1 | Textured White (9010) WT | Textured Black (9005) BT | RAL Classic www.phos.co.uk/finishes | RAL Design price on application |