



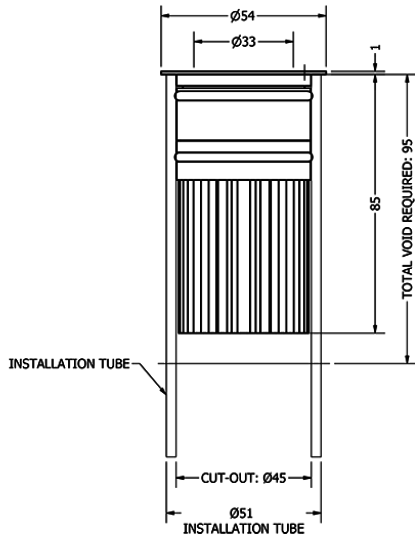
PHOS
ENGINEERING LIGHT

PANO MIDI DARKLIGHT SQUARE

HIGH EFFICIENCY



13W



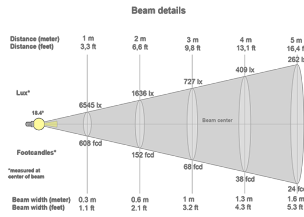
TECHNICAL SPECIFICATIONS

CCT	2700K			
Wattage	13W			
BeamAngle	20°	25°	30°	50°
Luminaire Lumens (lm)	1100	949	981	973
Circuit Watts (c/W)	14.4	14.3	14.3	14.3
LuminaireEfficacy (l/cW)	76	66	69	68
Luminance (Cd)	6853	3659	3177	1262
Light Source (Lm/W)	110	110	110	110
Engine (Lm/W)	89	89	89	89
Forward Volatage (Vf)	18.2	18.2	18.2	18.2
Current (mA)	700	700	700	700

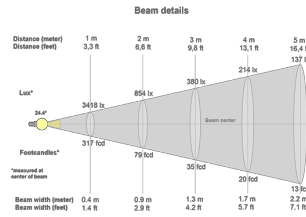
CCT	3000K			
Wattage	13W			
BeamAngle	20°	25°	30°	50°
Luminaire Lumens (lm)	1130	957	988	989
Circuit Watts (c/W)	14.5	14.5	14.5	14.5
LuminaireEfficacy (l/cW)	78	66	68	68
Luminance (Cd)	6887	3643	3325	1287
Light Source (Lm/W)	112	112	112	112
Engine (Lm/W)	93	93	93	93
Forward Volatage (Vf)	18.2	18.2	18.2	18.2
Current (mA)	700	700	700	700

Binning	2 step MacAdams
CRI	90+
TM-30-15	Rf87.76 - Rg103.99
Lumen Maintenance	LM80
Lifetime	50,000 hours
Dimming	Mains Dim, DALI, CASAMBI, 0-10V, Non-dim

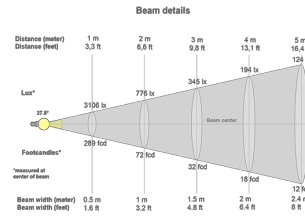
LIGHT CONES



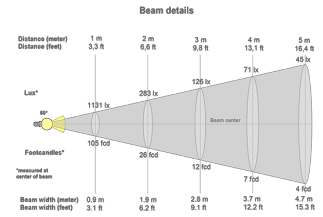
20°



25°

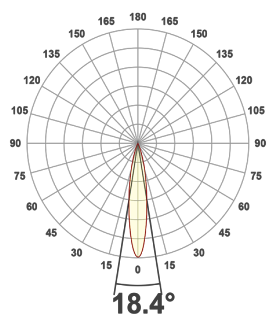


30°

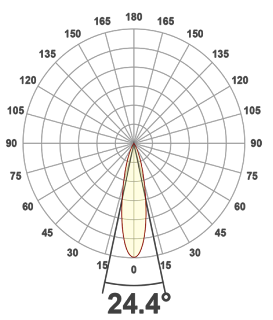


50°

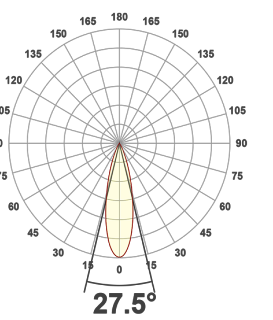
POLAR CURVES



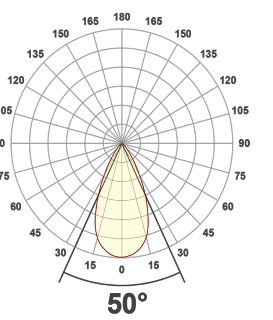
20°



25°



30°



50°

PART CODE BUILDER

Example Code: MD-PD-SQ-WT-HE13-27-90-20-700

Family	Variant	Bezel Finish	Engine	Power	CCT	CRI	Beam Angle	Driver Current
MD	PD-SQ	WT	HE	13W	27K	90	20°	700mA
		BT			30K		25°	
		*C					30°	
							50°	

REGENERATION FOR GENERATIONS



View ReGen Doc



TAKE

Sourcing material locally



MAKE

Responsible manufacture



WASTE

Lifetime duty of care



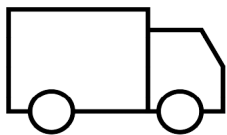
SOFT TM66 RESULTS

Category	Points Scored	MAX Possible Points	Assessment
Product Design	111.0	134.0	3.3
Manufacturing	35.0	46.5	3.0
Materials	11.0	24.0	1.8
Ecosystem	36.0	43.0	3.3
Overall Performance	193.0	247.5	2.9
2.5 to 4.0	Excellent circularity		

TM65 Available upon request

Embodied carbon in building services

WE ENCOURAGE ALL FIXTURES TO BE RETURNED TO US SO WE CAN REGEN OR RECYCLE.



If a product has failed or has become EOL, we can arrange collection of the interchangeable light engines and associated drivers. Once received, we will review the engine to see if it can be **ReGenerated** or **recycled**.



If we can **ReGenerate** the light engine, we will only need to replace the faulty part of the fitting, which can then be restored to life, utilising all of our original optics and bezels.



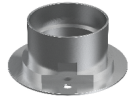
If the unit is beyond the point of repair, we will ensure the raw material is always fully recycled. We encourage all fixtures to be returned to us so we can **ReGen** or **recycle**.

ACCESSORIES



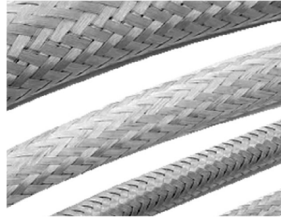
Midi Installation Tube

ACC-MD-TUBE



Midi Collar Tube

ACCS-MD-COLLARTUBE



Exterior Cable Sleeve

ACCS-E-CABLESLEEVE-5MM

INSERTS



Elliptical Insert

NOT available for square versions

EL



Asymmetric Insert

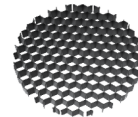
NOT available for square versions

AS



Softening Insert

SL



Honeycomb Insert

HC



Halfmoon Insert

NOT available for square versions

HM



Colour Change Insert

CCT: 18K

CCT: 22K

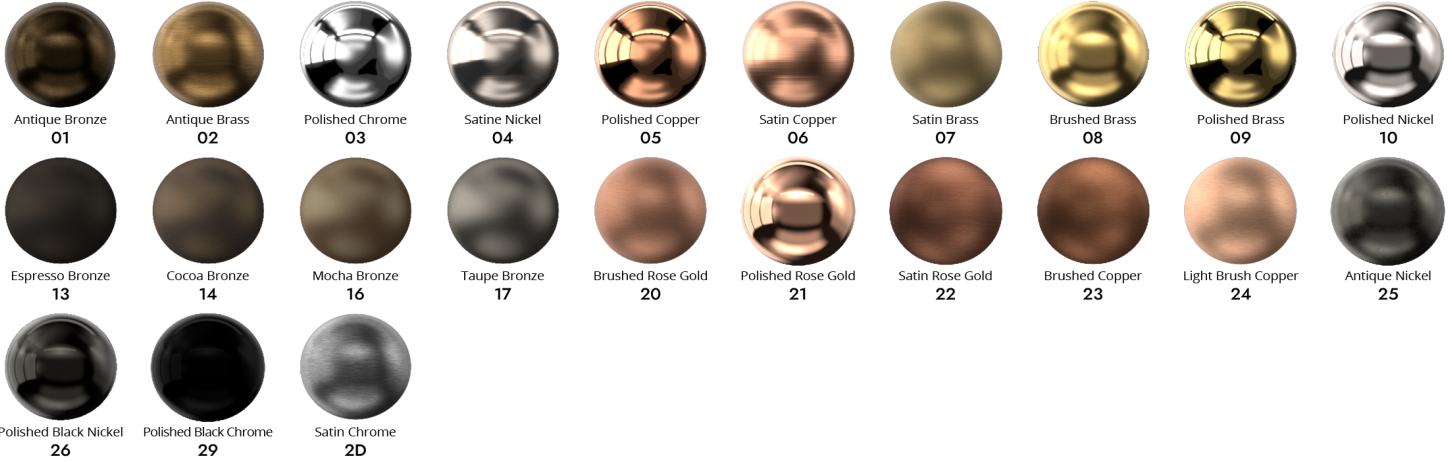
CCT: 24K

CCT: 25K

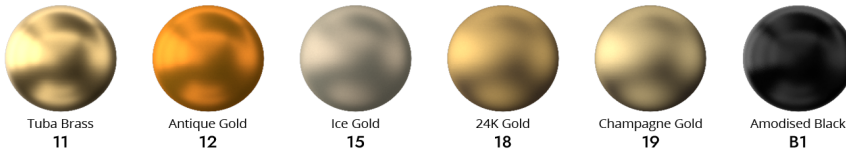
FINISHES

Every element of your light can be finished in any of the options below, or RAL colour:

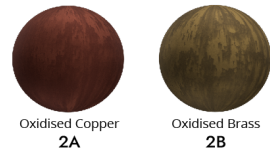
PLATED (Interior ONLY)



ANODISED (Interior ONLY)



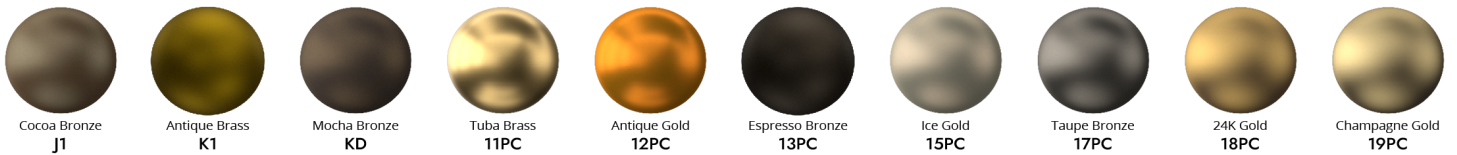
SPECIALITY PLATED (Interior ONLY)



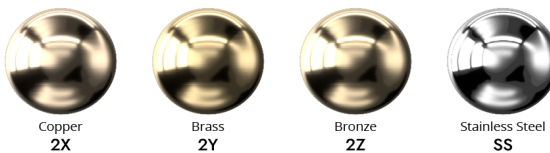
POWDER COAT (Interior & Exterior)



METAL POWDER COAT (Interior & Exterior)



MARINE GRADE (Interior, Exterior & Harsh Environment)



SPECIALITY POWDER COAT (Interior & Exterior)

