

ZERO

With a unique anti-glare lens coating, LED Puck Zero makes discreet, atmospheric lighting finally a reality. Featuring a compact and inconspicuous LED module — measuring only 15mm in diameter — Zero gives a seamless handrail integration at an unparalleled uniformity. Zero is for designers and engineers that need it all: control of the lighting, *and* the experience — minus the glare.

PRODUCT CODE	SPECIFICATION
ZERO-AS-CF-30	Zero Asymmetric Beam Curved Face 3000K
ZERO-AS-CF-40	Zero Asymmetric Beam Curved Face 4000K
ZERO-AS-FF-30	Zero Asymmetric Beam Flat Face 3000K
ZERO-AS-FF-40	Zero Asymmetric Beam Flat Face 4000K










ETLus conforms to UL2108
cETL conforms to CSA C22.2 #250.0



OPTIONS

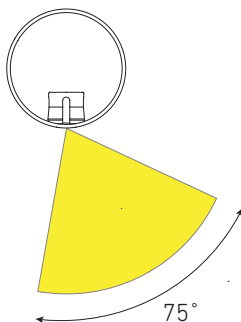
CCT 2700K / 3500K / Custom
 Custom Beam Angles
 Borosilicate Lens
 CRI 90+

SPECIFICATIONS

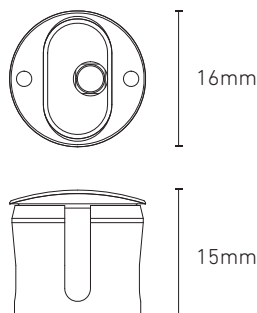
<p>TECHNICAL 1.4W / 500mA / 2.8Vf 3000K - 92lm / 4000K 101lm CRI 80+ (CRI 90+ OPTION) 3 STEP MACADAM ELLIPSE L90 B10 >100,000h</p>	<p>MATERIAL 316 STAINLESS STEEL ELECTROPOLISHED</p>	<p>INSTALLATION SURFACE MIN. 1.5mm WALL THICKNESS MIN. Ø35mm RAIL (CURVED FACE ONLY)</p>
<p>OPTICS POLYCARBONATE (STANDARD) BOROSILICATE (OPTION)</p>	<p>AMBIENT OPERATING CONDITIONS MIN. -40° / MAX. 55°</p>	<p>APERTURE Ø15mm</p>
<p>DISTRIBUTION ELLIPTICAL ASYMMETRIC</p>	<p>PROTECTION CLASS POLYCARBONATE IP65 / IK10 BOROSILICATE IP67 (OPTION)</p>	<p>COUNTERBORE (REQUIRED FOR FLUSH FINISH) Ø16mm x 1.6mm (Curved Face) Ø16mm x 0.5mm (Flat Face)</p>
	<p>ELECTRICAL COOLSPICE CONNECTOR</p>	<p>CONTROL 1-10V DALI DMX ZIGBEE CASAMBI BLUE LIGHT LINK basicDIM WIRELESS</p>

BEAM AND FACE DETAIL

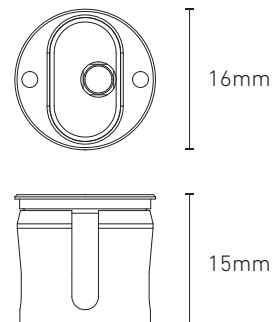
ASYMMETRIC BEAM (FWHM)



CURVED FACE



FLAT FACE



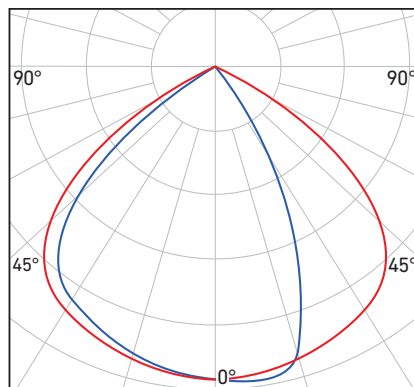
Elliptical asymmetric distribution displayed here with a vertical mount.

ZERO

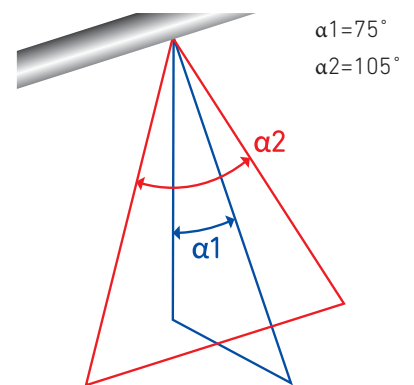
PHOTOMETRICS

Zero has an elliptical asymmetric distribution. Designed for insertion at 0-10 degrees from the vertical axis of the handrail underside. The asymmetric beam illuminates the path but keeps the light source out of sight. Zero is available in a range of standard distributions and special angles on request.

ASYMMETRIC BEAM 3000K



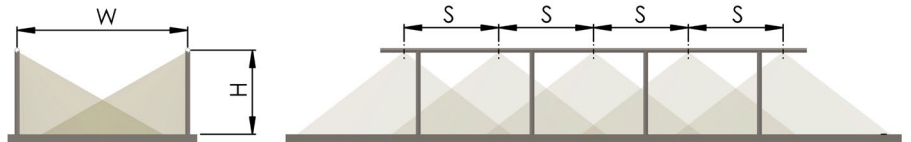
BEAM ALPHA 3000K



LUX GUIDE

The following guide is intended to help designers and engineers with desired lux levels. The drawing to the right shows a typical installation into a handrail. The tables list the average lux at a variety of path widths and LED spacings.

TYPICAL INSTALLATION



Height (H) is at 1m

STANDARD BEAM: LIGHT FROM BOTH SIDES

Path Width (W)	1.2m	2.0m	3.0m	4.0m
LED Spacing (S)	lx	lx	lx	lx
0.5m	164	98	66	49
1.0m	82	49	33	25
2.0m	41	25	16	12

lx = average lux

CCT = 3000K

Note: Calculations indicated are with LED module in vertical down position.