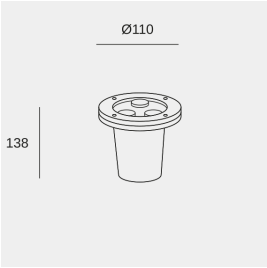
Ringo Ø110mm

PX-0128-INO

Recessed uplighting IP65-IP67 Ringo Ø110mm LED 3.5W 3000K ON-OFF Stainless steel 370.00





TECHNICAL FEATURES

IP65-IP67 IK10

Luminaire total power : 3.5W

Real lumens : 218

Nominal lumens : 370

Real lm/W : 62

Lens / reflector angle : SPOT 20º

UGR : <=16

Structure material : Stainless steel AISI304, Aluminium

Structure finish : Stainless steel

Diffuser material : Glass

Diffuser finish : Transparent

Voltage / frequency : 100-240V ~ 50/60Hz

Dimming protocol : ON-OFF

Power Factor : 0.40

Useful life : 36.000h L70B30

Warranty : 5 Years

Easily recyclable luminaire

LUMINOTECHNIC FEATURES

CRI: 80

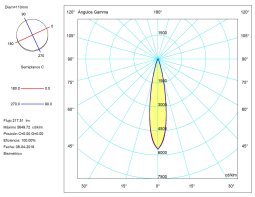
MacAdam steps: 3

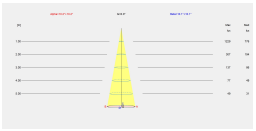
Photobiological risk: RG2

UGR

UGR crosswise: 8.7

UGR lengthwise: 8.5





Lampholder	Quantity	Light source power (W)	Correlated Colour Temperature (CCT)
LED	1	2.7W	3000K

LOGISTICS

Net weight (kg): 0.63

Packaged weight (kg): 0.77

Packaging: 115mm x 115mm x 155mm

12 Un

Image may not match reference. LEDS C4 reserves the right to amend any of the product's components. The data related to flux, power and colour temperature are subject to a tolerance of ±10%.

Luminaire
Code PX-0128-INO
Name Empotrable suelo 3 leds 3W
Measurem.
Code PX-0123-INO
Name Empotrable suelo 3 leds 3W

Luminaire Flux	217.50 lm	Luminaire Power	3.00 W	Efficacy	72.50 lm/W	Efficiency	100.00%
Lamps Flux	217.51 lm	Maximum value	1228.87 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

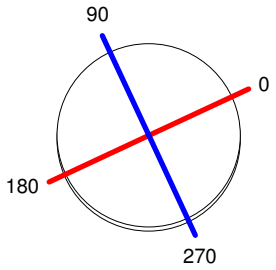
Round Luminaire	Diam. 110 mm	Height	5 mm
Round Luminous Area	Diam. 58 mm	Height	0 mm
Horizontal Luminous Area	0.002642 m2	Emitting area on Plane 180°	0.000000 m2
Emitting area on Plane 0°	0.000000 m2	Emitting area on Plane 270°	0.000000 m2
Emitting area on Plane 90°	0.000000 m2	Glare area at 76°	0.000639 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	08-04-2016	Maximum Gamma Angle	90
Measurement Distance	0.00	Measurement Flux	217.51 lm
Operator	Asselum T3	Source Voltage [V]	
Temperature	25.00 °C	Source current [A]	
Humidity	60.00 %	Photocell	
Notes			

Luminaire Lamps

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	PX-0128-INO	PX-0128-INO - 3.00 W	217.51	3.00	1

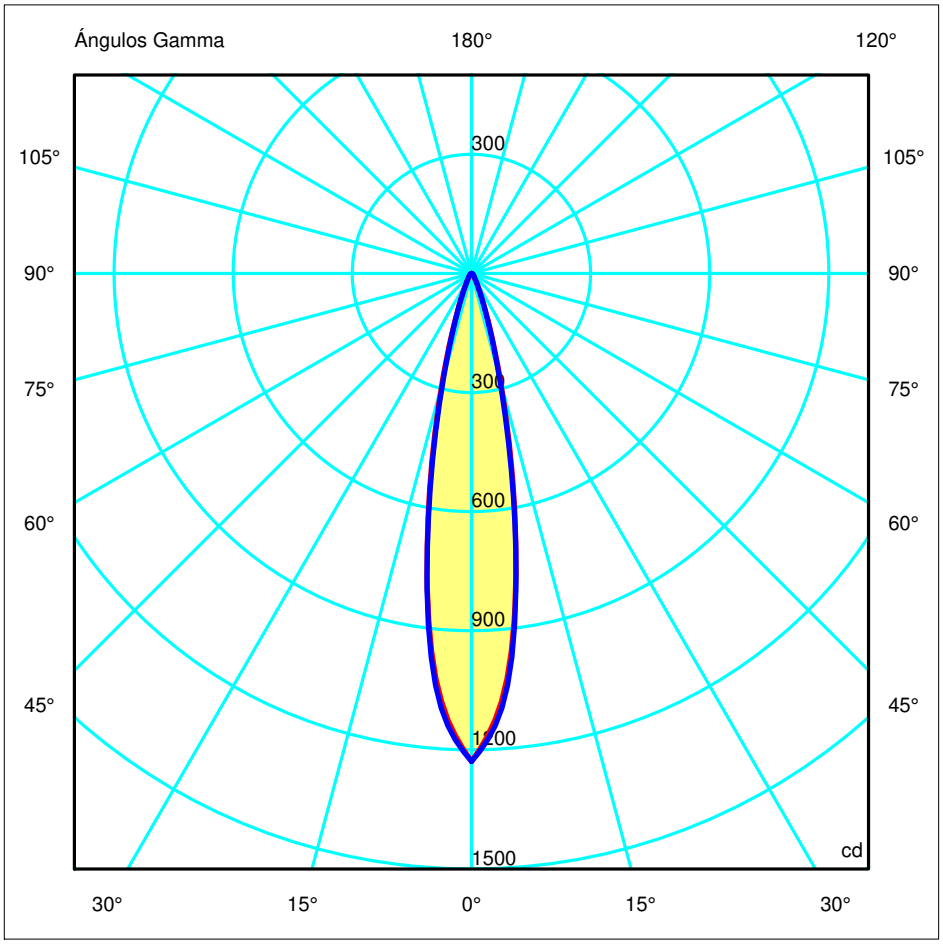
C.I.E.	96 99 100 100 100	D DIN 5040	A60
F UTE	1.00 A	B NBN	BZ 1

Diam=110mm



Semiplanos C

180.0 — 0.0
270.0 — 90.0

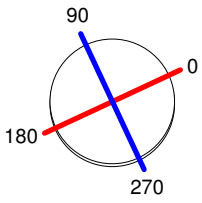


ULOR	0.00 %
DLOR	100.00 %
RN	0.00 %

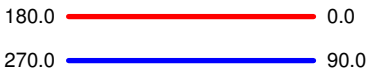
Luminaire
Code PX-0128-INO
Name Empotrable suelo 3 leds 3W
Measurem.
Code PX-0123-INO
Name Empotrable suelo 3 leds 3W

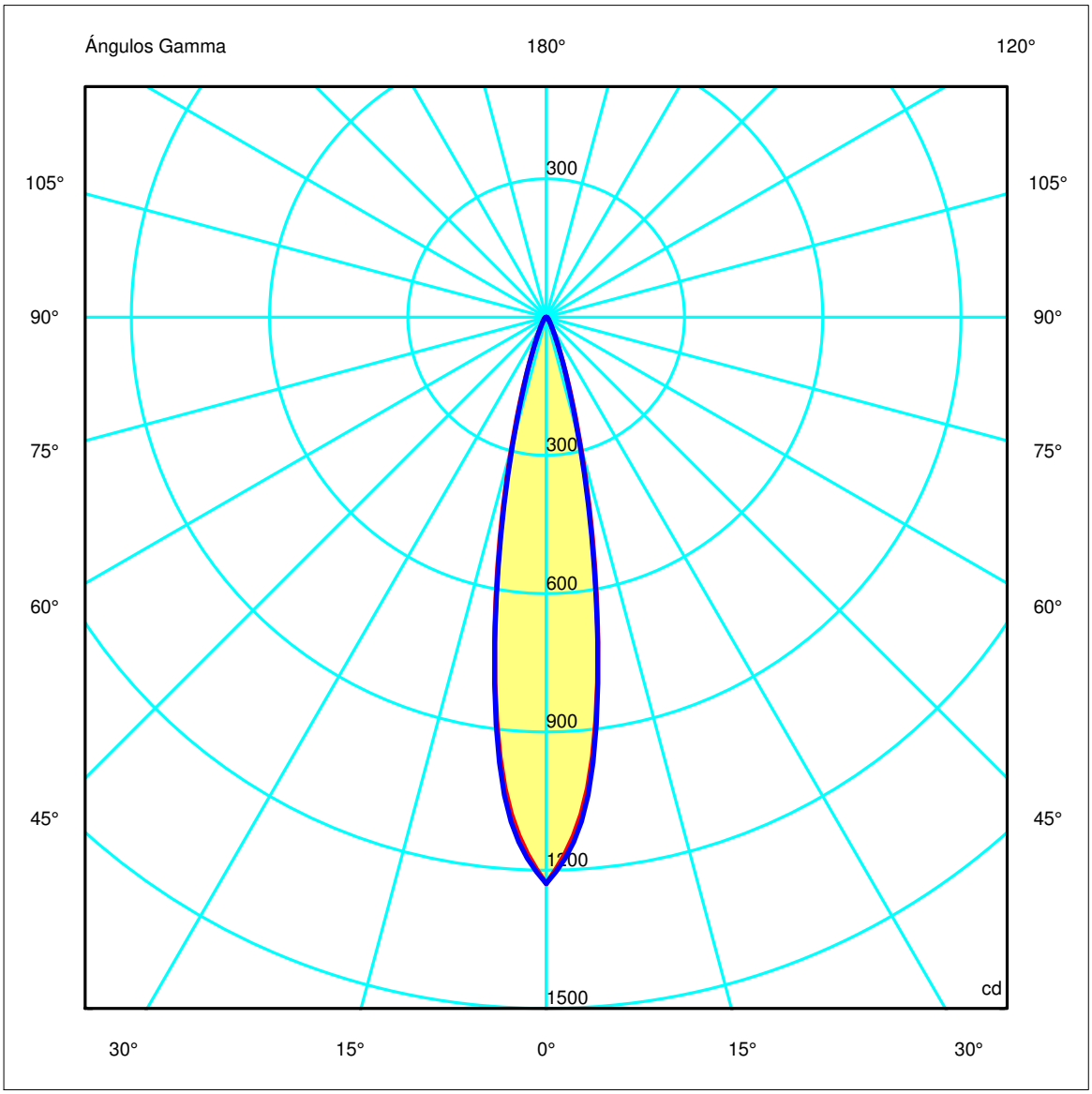
Luminaire Flux	217.50 lm	Luminaire Power	3.00 W	Efficacy	72.50 lm/W	Efficiency	100.00%
Lamps Flux	217.51 lm	Maximum value	1228.87 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=110mm



Semiplanos C





Luminaire
Code PX-0128-INO
Name Empotrable suelo 3 leds 3W
Measurem.
Code PX-0123-INO
Name Empotrable suelo 3 leds 3W

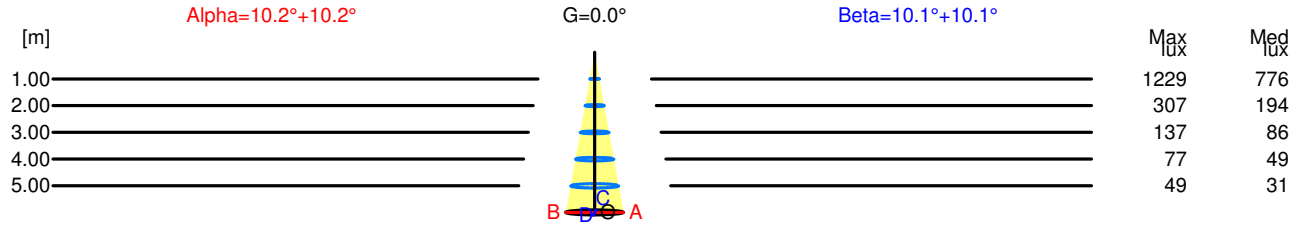
Luminaire Flux	217.50 lm	Luminaire Power	3.00 W	Efficacy	72.50 lm/W	Efficiency	100.00%
Lamps Flux	217.51 lm	Maximum value	1228.87 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Width at 50.00 % of Max Intensity

H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	0.18	0.36	0.54	0.72	0.90	OC	0.18	0.36	0.54	0.71	0.89
OB	0.18	0.36	0.54	0.72	0.90	OD	0.18	0.36	0.54	0.71	0.89

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	1228.87	1025.43	285.96	46.10	13.88	7.23	2.87	1.15	0.41	0.34
OB	1228.87	1025.43	285.96	46.10	13.88	7.23	2.87	1.15	0.41	0.34
OC	1228.87	1041.15	272.31	44.17	14.42	6.52	2.89	1.20	0.45	0.36
OD	1228.87	1041.15	272.31	44.17	14.42	6.52	2.89	1.20	0.45	0.36



H[m]	D[m]	Max lux	Med lux	Alpha=10.2°+10.2° G=0.0
1.00	0.36	1229	776	
2.00	0.72	307	194	
3.00	1.08	137	86	
4.00	1.44	77	49	
5.00	1.80	49	31	

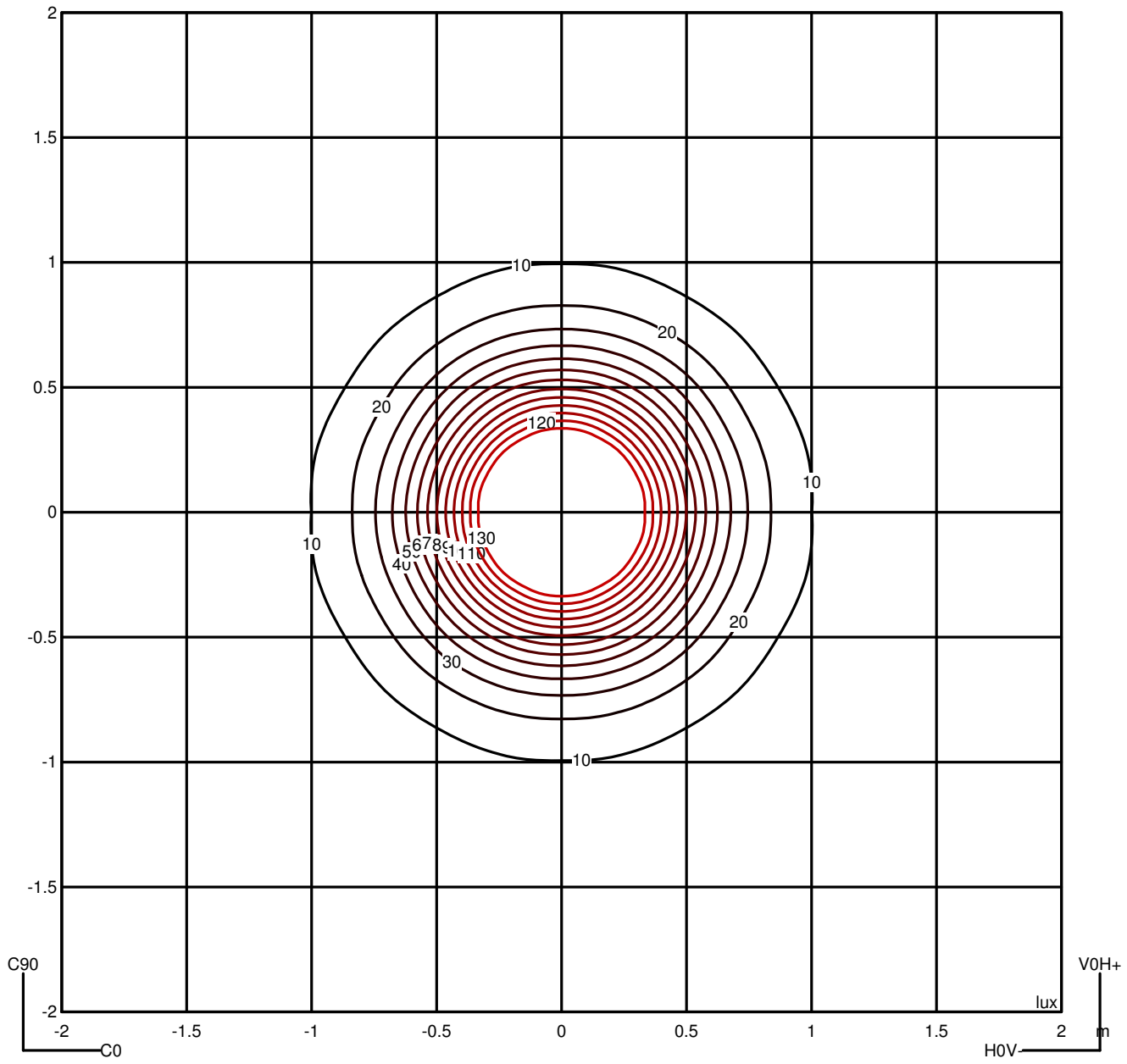
H[m]	D[m]	Max lux	Med lux	Beta=10.1°+10.1° G=0.0
1.00	0.36	1229	776	
2.00	0.71	307	194	
3.00	1.07	137	86	
4.00	1.43	77	49	
5.00	1.79	49	31	

Luminaire
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Lamps Flux	217.51 lm	Maximum value	1228.87 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m



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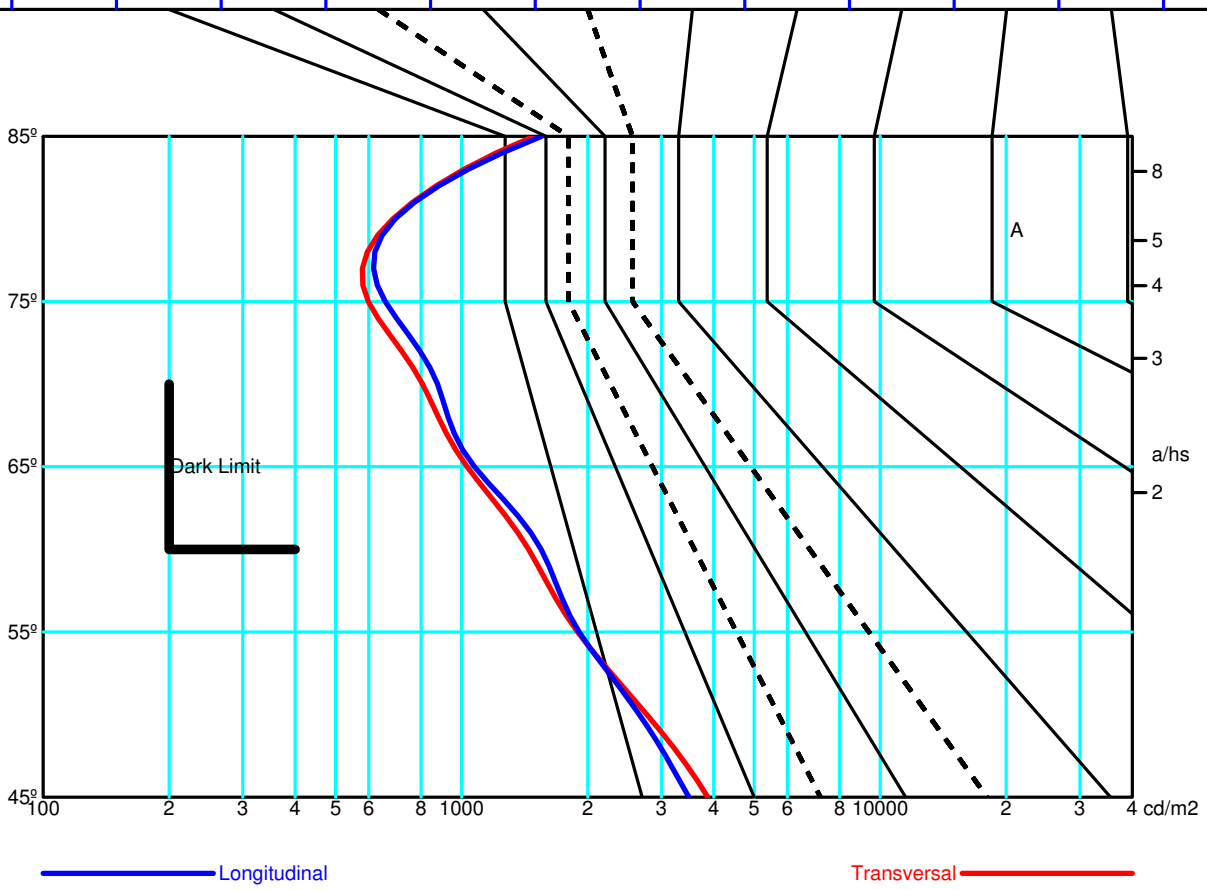
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Lamps Flux	217.51 lm	Maximum value	1228.87 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Average Luminance [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	3872	2768	1893	1445	1030	807	598	685	1488	---
90.0°	3490	2658	1908	1549	1072	876	657	694	1553	---

Flujo montado o vista longitudinal

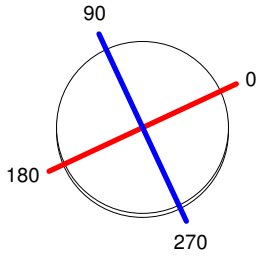
		Iluminancia (lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



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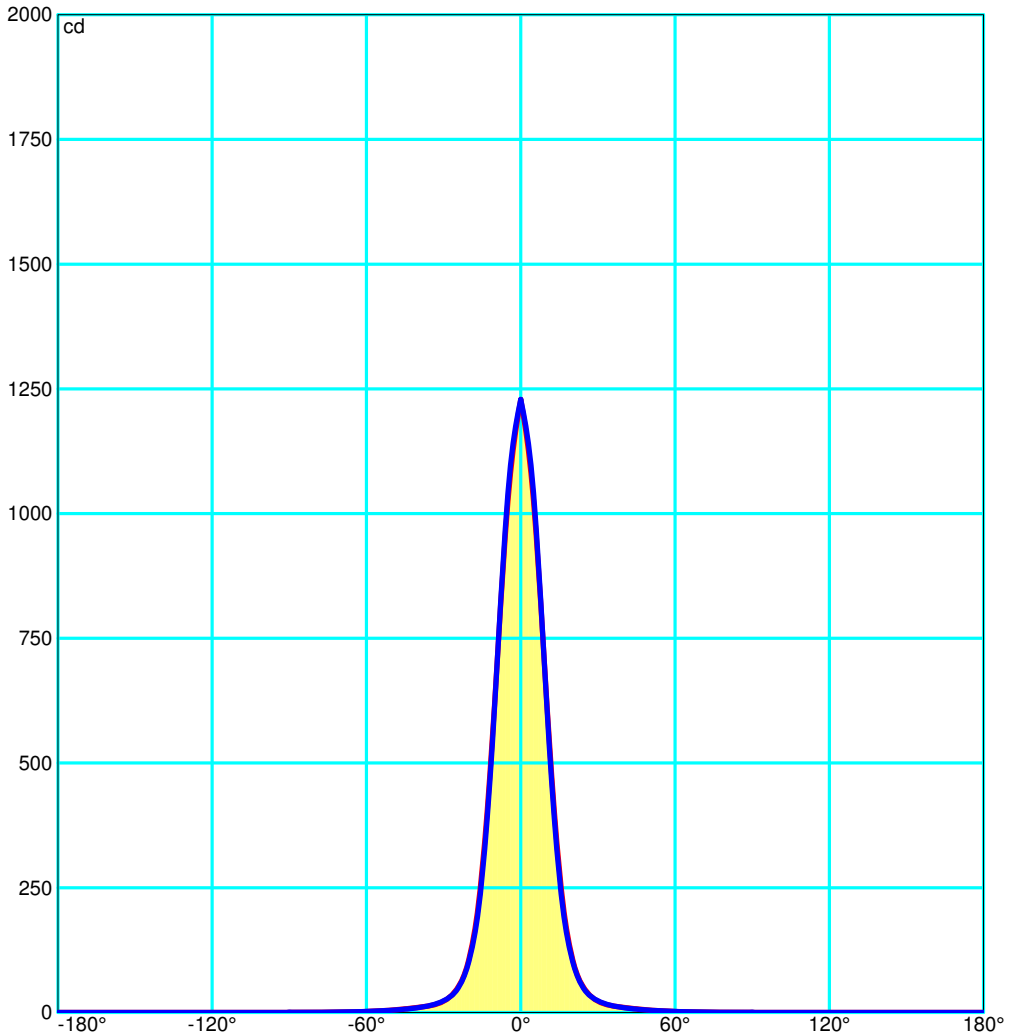
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Lamps Flux	217.51 lm	Maximum value	1228.87 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=110mm



Semiplanos C





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Measurem.
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Name Empotrable suelo 3 leds 3W

Luminaire Flux	217.50 lm	Luminaire Power	3.00 W	Efficacy	72.50 lm/W	Efficiency	100.00%
Lamps Flux	217.51 lm	Maximum value	1228.87 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

UGR
S = 0.250

Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	7.9	8.5	8.1	8.7	8.8	7.7	8.4	7.9	8.6	8.8
x=2H y=3H	8.1	8.7	8.4	8.9	9.0	7.9	8.5	8.2	8.8	9.0
x=2H y=4H	8.1	8.7	8.4	9.0	9.0	8.0	8.5	8.3	8.8	9.0
x=2H y=6H	8.2	8.7	8.5	9.0	9.1	8.0	8.5	8.3	8.8	9.1
x=2H y=8H	8.2	8.7	8.5	9.0	9.2	8.1	8.6	8.4	8.9	9.2
x=2H y=12H	8.3	8.8	8.7	9.1	9.3	8.2	8.7	8.6	9.0	9.3
x=4H y=2H	8.0	8.6	8.3	8.9	8.9	7.9	8.5	8.2	8.7	8.9
x=4H y=3H	8.3	8.8	8.7	9.1	9.2	8.1	8.6	8.5	8.9	9.2
x=4H y=4H	8.4	8.8	8.8	9.2	9.3	8.2	8.7	8.6	9.0	9.3
x=4H y=6H	8.5	8.9	8.9	9.2	9.5	8.4	8.7	8.8	9.1	9.5
x=4H y=8H	8.6	8.9	9.0	9.3	9.6	8.5	8.8	8.9	9.2	9.6
x=4H y=12H	8.9	9.1	9.3	9.5	9.8	8.7	9.0	9.2	9.4	9.8
x=8H y=4H	8.4	8.7	8.8	9.1	9.4	8.3	8.6	8.7	8.9	9.4
x=8H y=6H	8.6	8.8	9.0	9.3	9.5	8.5	8.7	8.9	9.1	9.5
x=8H y=8H	8.8	9.0	9.3	9.4	9.8	8.7	8.9	9.1	9.3	9.8
x=8H y=12H	9.2	9.3	9.7	9.8	10.2	9.1	9.3	9.6	9.7	10.2
x=12H y=4H	8.4	8.7	8.8	9.1	9.3	8.2	8.5	8.7	8.9	9.3
x=12H y=6H	8.6	8.8	9.1	9.3	9.6	8.5	8.7	8.9	9.1	9.6
x=12H y=8H	8.9	9.0	9.3	9.5	9.9	8.7	8.9	9.2	9.4	9.9

Luminaire
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Lamps Flux	217.51 lm	Maximum value	1228.87 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Flujo Total=217.51 Flujo Luminaria=217.50

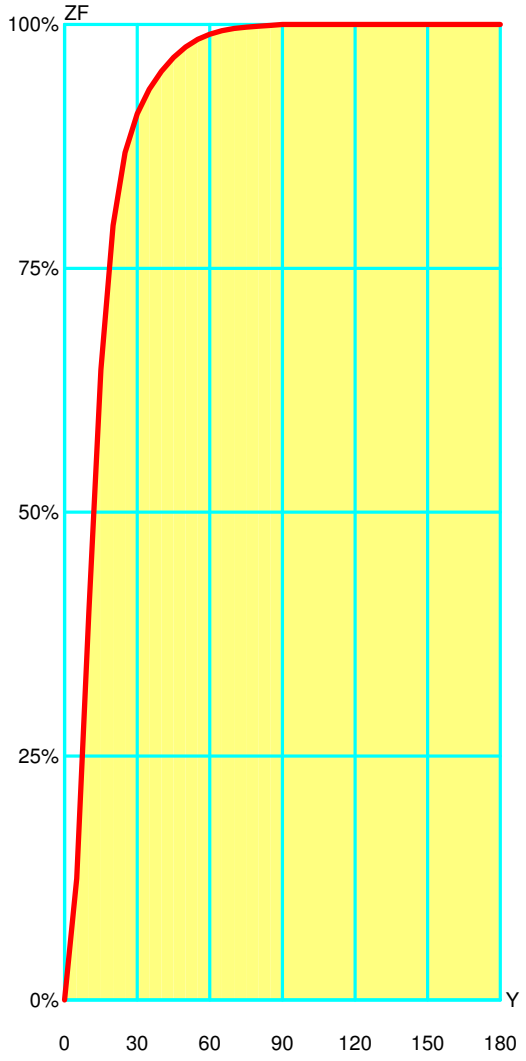
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.70	0.75	0.80	0.84	0.87	0.91	0.94	0.96	0.98	0.99	1.01	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

Flujo Zonal por 1000 Lúmenes

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	398	794	908	952	977	990	996	998	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.
96 99 100 100 100

C.I.E.	-/-/-/-/-/-/-/-/-/-/-	LOR	99.99738 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	1.00 A	DLOR	99.99738 %
B NBN	BZ 1	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %

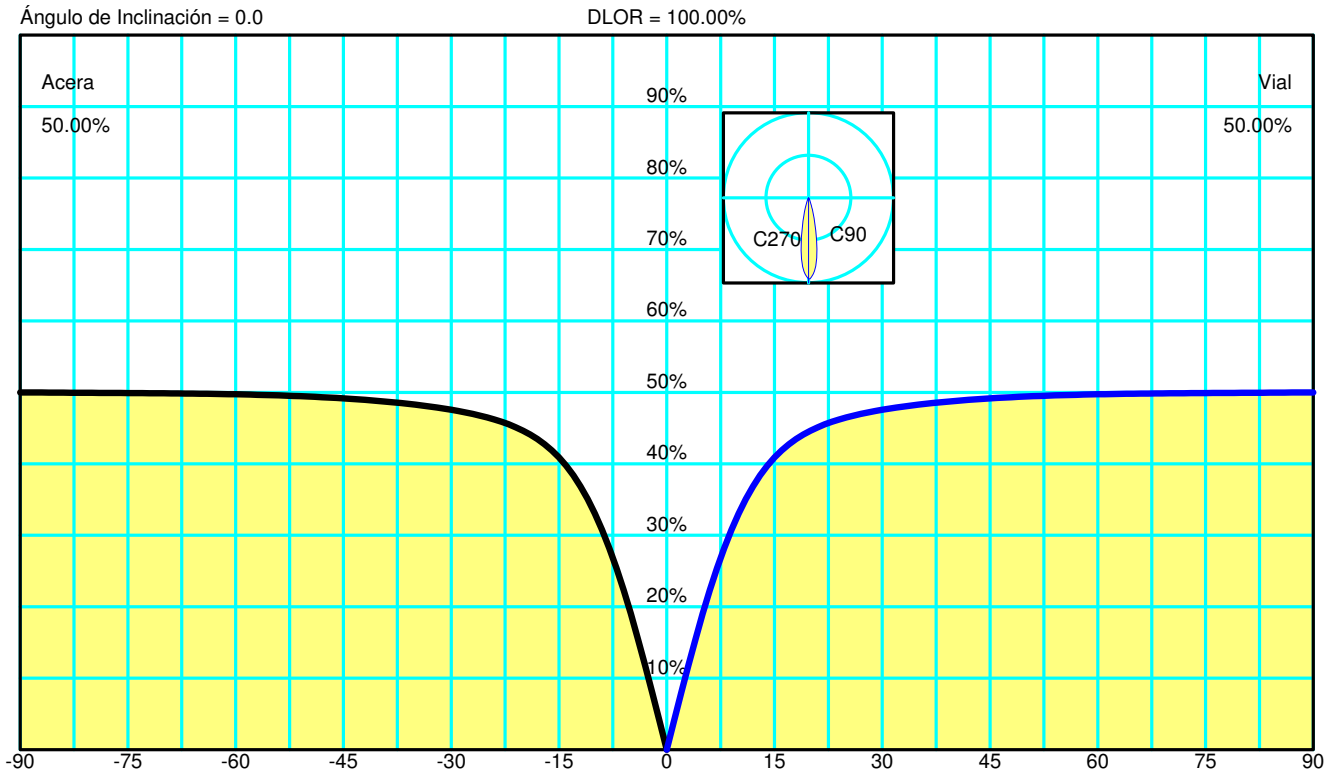


Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	124.51	124.51	12.45 %	12.45 %
10°	273.78	398.29	27.38 %	39.83 %
15°	247.80	646.09	24.78 %	64.61 %
20°	147.84	793.93	14.78 %	79.40 %
25°	74.75	868.68	7.47 %	86.87 %
30°	39.67	908.35	3.97 %	90.84 %
35°	25.10	933.45	2.51 %	93.35 %
40°	18.37	951.82	1.84 %	95.18 %
45°	14.26	966.08	1.43 %	96.61 %
50°	10.82	976.91	1.08 %	97.69 %
55°	7.73	984.63	0.77 %	98.47 %
60°	5.33	989.96	0.53 %	99.00 %
65°	3.59	993.55	0.36 %	99.36 %
70°	2.29	995.84	0.23 %	99.59 %
75°	1.41	997.25	0.14 %	99.73 %
80°	0.93	998.18	0.09 %	99.82 %
85°	0.85	999.03	0.08 %	99.91 %
90°	0.95	999.97	0.09 %	100.00 %
95°	0.00	999.97	0.00 %	100.00 %
100°	0.00	999.97	0.00 %	100.00 %
105°	0.00	999.97	0.00 %	100.00 %
110°	0.00	999.97	0.00 %	100.00 %
115°	0.00	999.97	0.00 %	100.00 %
120°	0.00	999.97	0.00 %	100.00 %
125°	0.00	999.97	0.00 %	100.00 %
130°	0.00	999.97	0.00 %	100.00 %
135°	0.00	999.97	0.00 %	100.00 %
140°	0.00	999.97	0.00 %	100.00 %
145°	0.00	999.97	0.00 %	100.00 %
150°	0.00	999.97	0.00 %	100.00 %
155°	0.00	999.97	0.00 %	100.00 %
160°	0.00	999.97	0.00 %	100.00 %
165°	0.00	999.97	0.00 %	100.00 %
170°	0.00	999.97	0.00 %	100.00 %
175°	0.00	999.97	0.00 %	100.00 %
180°	0.00	999.97	0.00 %	100.00 %

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Lamps Flux	217.51 lm	Maximum value	1228.87 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Pavement			Road		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	19.01%	Piano	5	19.01%
Piano	-10	33.04%	Piano	10	33.04%
Piano	-15	40.90%	Piano	15	40.90%
Piano	-20	44.64%	Piano	20	44.64%
Piano	-25	46.49%	Piano	25	46.49%
Piano	-30	47.57%	Piano	30	47.57%
Piano	-35	48.28%	Piano	35	48.28%
Piano	-40	48.79%	Piano	40	48.79%
Piano	-45	49.16%	Piano	45	49.16%
Piano	-50	49.42%	Piano	50	49.42%
Piano	-55	49.61%	Piano	55	49.61%
Piano	-60	49.73%	Piano	60	49.73%
Piano	-65	49.82%	Piano	65	49.82%
Piano	-70	49.87%	Piano	70	49.87%
Piano	-75	49.91%	Piano	75	49.91%
Piano	-80	49.94%	Piano	80	49.94%
Piano	-85	49.97%	Piano	85	49.97%
Piano	-90	50.00%	Piano	90	50.00%



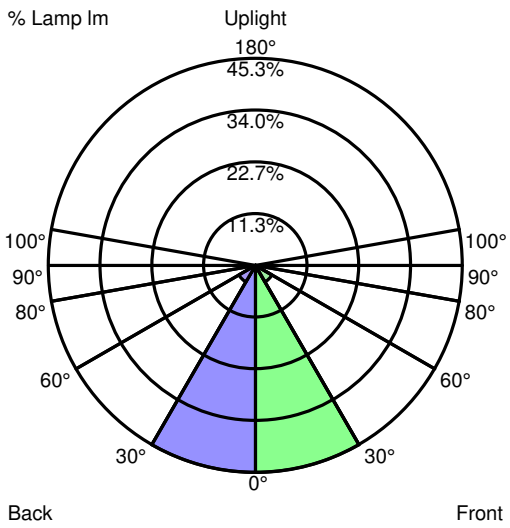
Spread	3.8°	Estrecho		DLOR	99.99738 %
Throw	1.8°	Corto		ULOR	0.00000 %
				Rendimiento	99.99738 %
Cutoff CIE	Cutoff	- Max: C=0.0° Gamma=0.0°		RN	0.00000 %
Cutoff Iesna	Cutoff			Clase de Intensidad Luminosa	G5
DIN5044	KB1			Índice de Deslumbramiento	D6

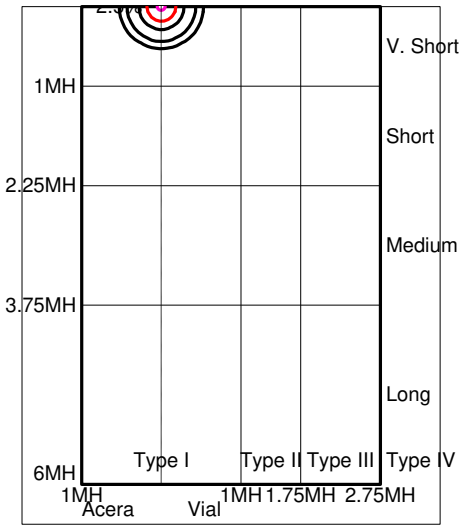
IESNA Type V Very Short Quadrilateral Symmetry

Luminaire
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Measurem.
Code PX-0123-INO
Name Empotrable suelo 3 leds 3W

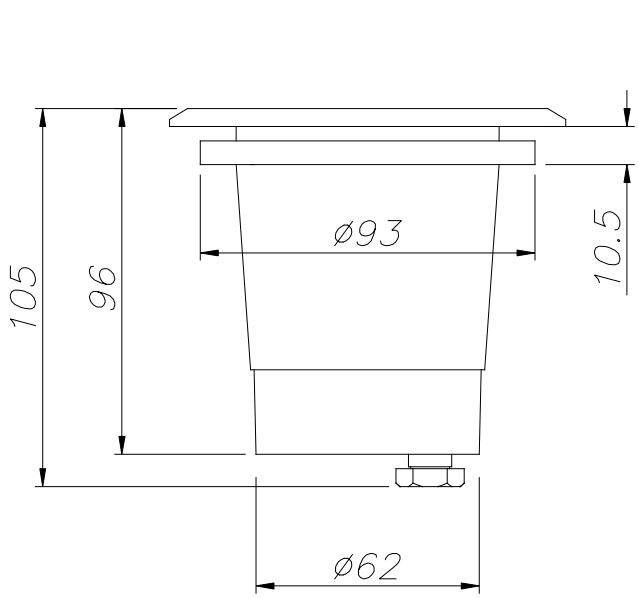
Luminaire Flux	217.50 lm	Luminaire Power	3.00 W	Efficacy	72.50 lm/W	Efficiency	100.00%
Lamps Flux	217.51 lm	Maximum value	1228.87 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

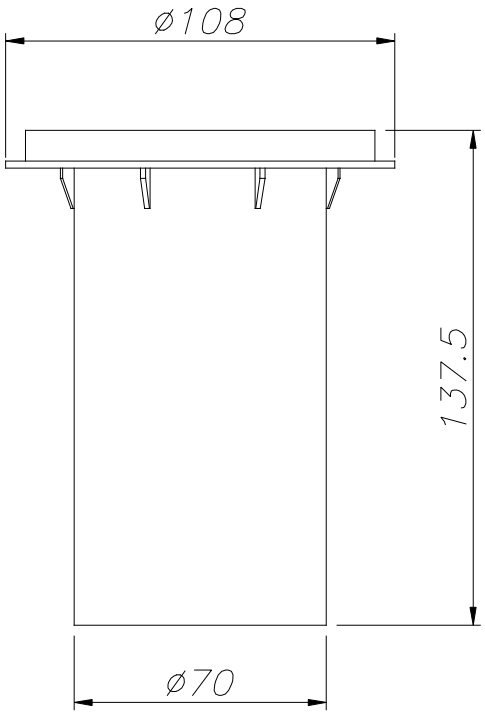
US ROAD STANDARDS



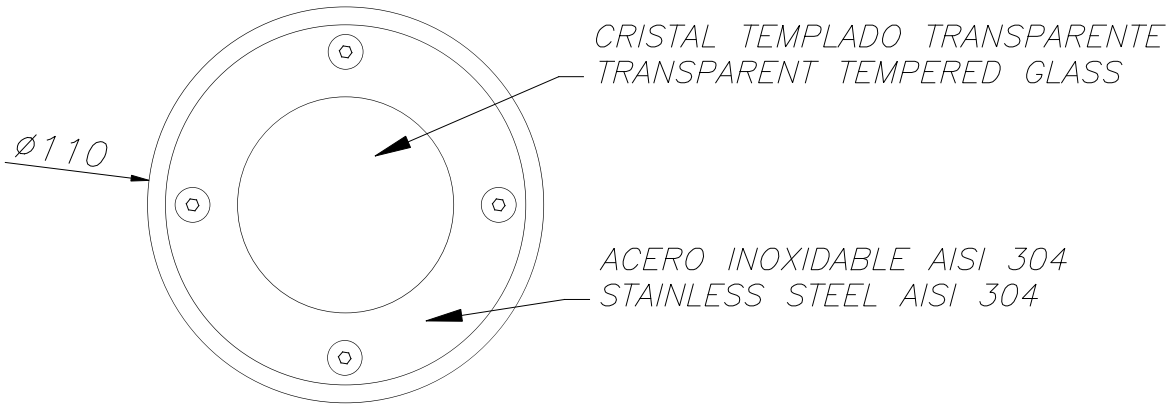


Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	98.6 lm	45.3 %	45.3 %
FM	30° -- 60°	9.1 lm	4.2 %	4.2 %
FH	60° -- 80°	0.9 lm	0.4 %	0.4 %
FVH	80° -- 90°	0.2 lm	0.1 %	0.1 %
BL	0° -- 30°	98.6 lm	45.3 %	45.3 %
BM	30° -- 60°	9.1 lm	4.2 %	4.2 %
BH	60° -- 80°	0.9 lm	0.4 %	0.4 %
BVH	80° -- 90°	0.2 lm	0.1 %	0.1 %
UL	90° -- 100°	0.0 lm	0.0 %	0.0 %
UH	100° -- 180°	0.0 lm	0.0 %	0.0 %
TOTALS		217.5 lm	100.0 %	100.0 %
BUG B0 U0 G0 Type V Very Short Quadrilateral Symmetry				



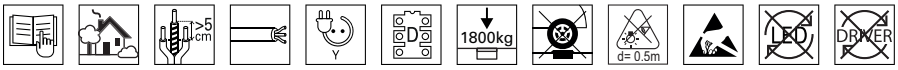


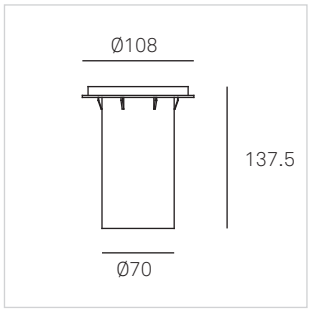
CAJA DE EMPOTRAR
FLUSH FITTING BOX

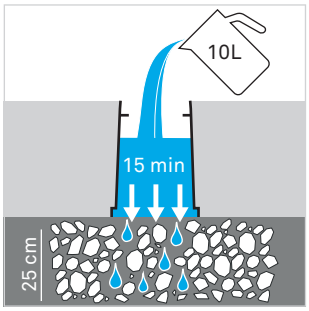


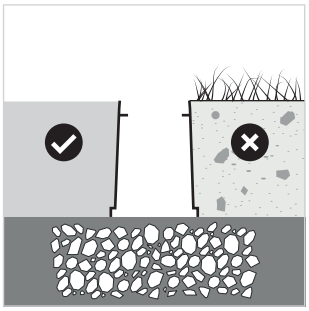
Ringo

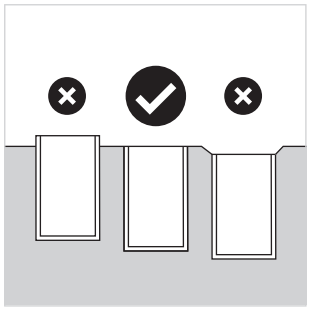
PX-0123 PX-0128

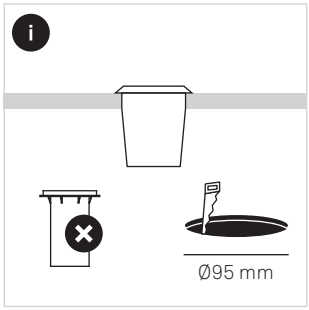


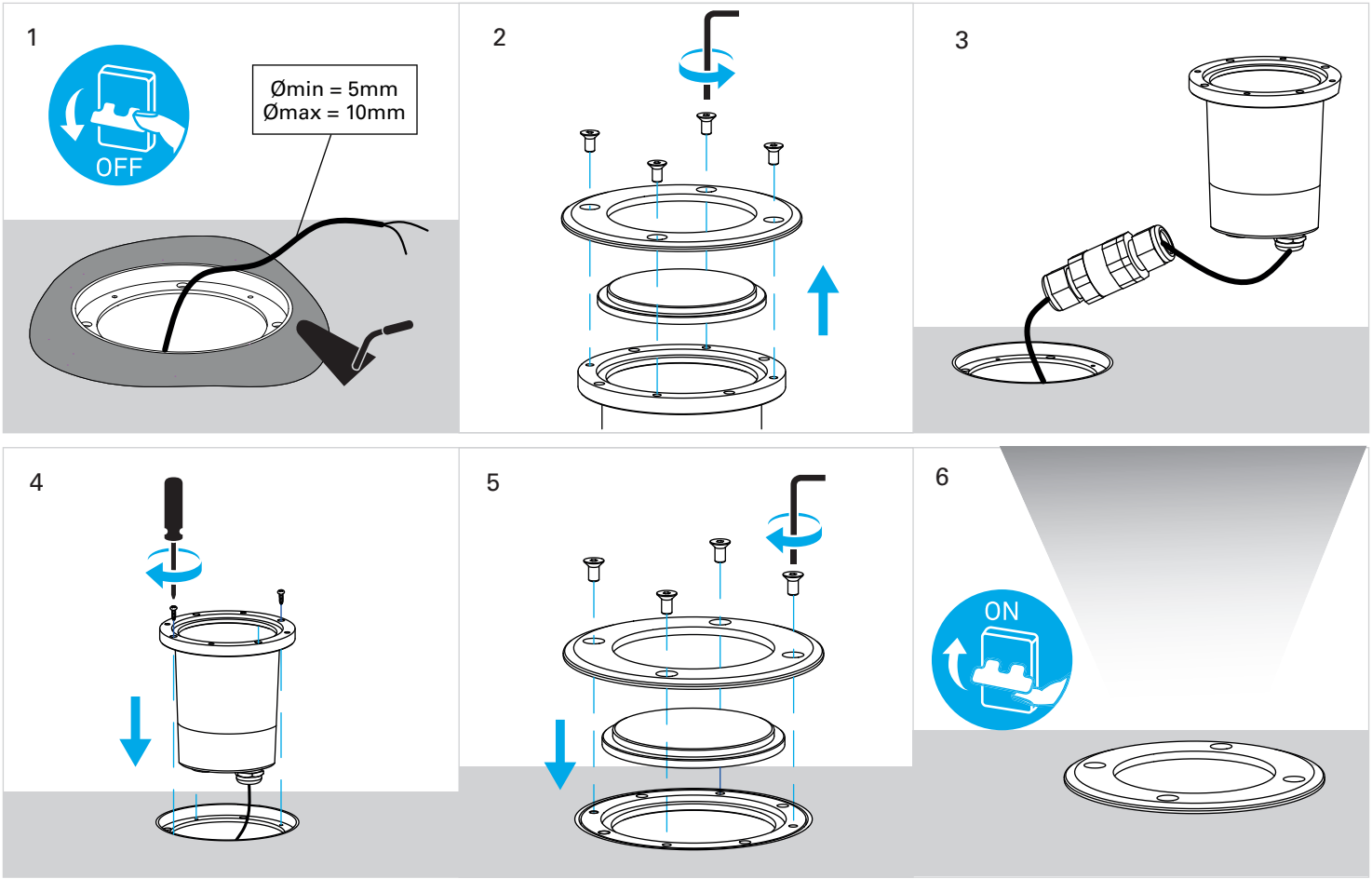












19-11-2020