PX-0123-INO

V0

Ringo Ø110mm Empotrable de suelo







UGR	
S=0.250	
Techo/Cavidad	0.7
Paredes	0.5
Plano De Trabajo	0.2
Dimensiones De La Habitación	X=4H, Y=8H
UGR Transversal	8.8
UGR Longitudinal	8.7

Descripción
Empotrable de suelo IP65/IP67 Ringo 110mm LED 2.7W 4000K ON-OFF Pulido Negro 229lm

	Acabado	Material
Estructura	Pulido Negro	Acero inoxidable AISI 304 Aluminio
Difusor	Transparente	Cristal

IP65/IP67 IK10 ULTRA MEDIUM 12

CARACTERÍSTICAS TÉCNICAS

Fuente de luz
Fuente de luz: LED LG
Potencia (W): 2.7W
Consumo total (W): 3.5
Temperatura de color: Blanco neutro - 4000K
CRI: 80
Riesgo fotobiológico: RG2
Lumens reales: 229
Nº Leds: 3
Lm/W reales: 65
Vida útil: 36.000h L70B30
Bin / Grup: J14 o J32
MacAdam steps: 3
UGR: 7.9
Bombilla recomendada: LED

EQUIPO
Marca: DRIVER AC
Equipo incluido: Si, electrónico
Voltaje / Frecuencia: 100-240V/50-60Hz
Protocolo de regulación: ON-OFF

Luminaria
Drenaje: Sí
Zona de paso: 1800
Metros cable incluido: 0.25
Protección UVA: Sí
Garantía: 5 Años

Logística
Eficiencia energética: LED A++
EAN: 8435381440084
Peso neto (Kg): 0.6
Peso en Kg (embalado): 0.74
Box: 115 x 115 x 155
Masterbox: 12

El acabado de la fotografía puede no coincidir con el de la referencia. Para identificar el real ver descripción del acabado.

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

Luminaire Flux	228.57 lm	Luminaire Power	3.00 W	Efficacy	76.19 lm/W	Efficiency	100.00%
Lamps Flux	228.58 lm	Maximum value	1291.41 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

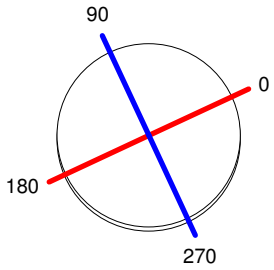
Round Luminaire	Diam. 110 mm	Height	5 mm
Round Luminous Area	Diam. 58 mm	Height	0 mm
Horizontal Luminous Area	0.002642 m2	Emitting area on Plane 180°	0.000000 m2
Emitting area on Plane 0°	0.000000 m2	Emitting area on Plane 270°	0.000000 m2
Emitting area on Plane 90°	0.000000 m2	Glare area at 76°	0.000639 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	17-02-2016	Maximum Gamma Angle	90
Measurement Distance	0.00	Measurement Flux	228.58 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-0123-INO	PX-0123-INO	228.58	3.00	1

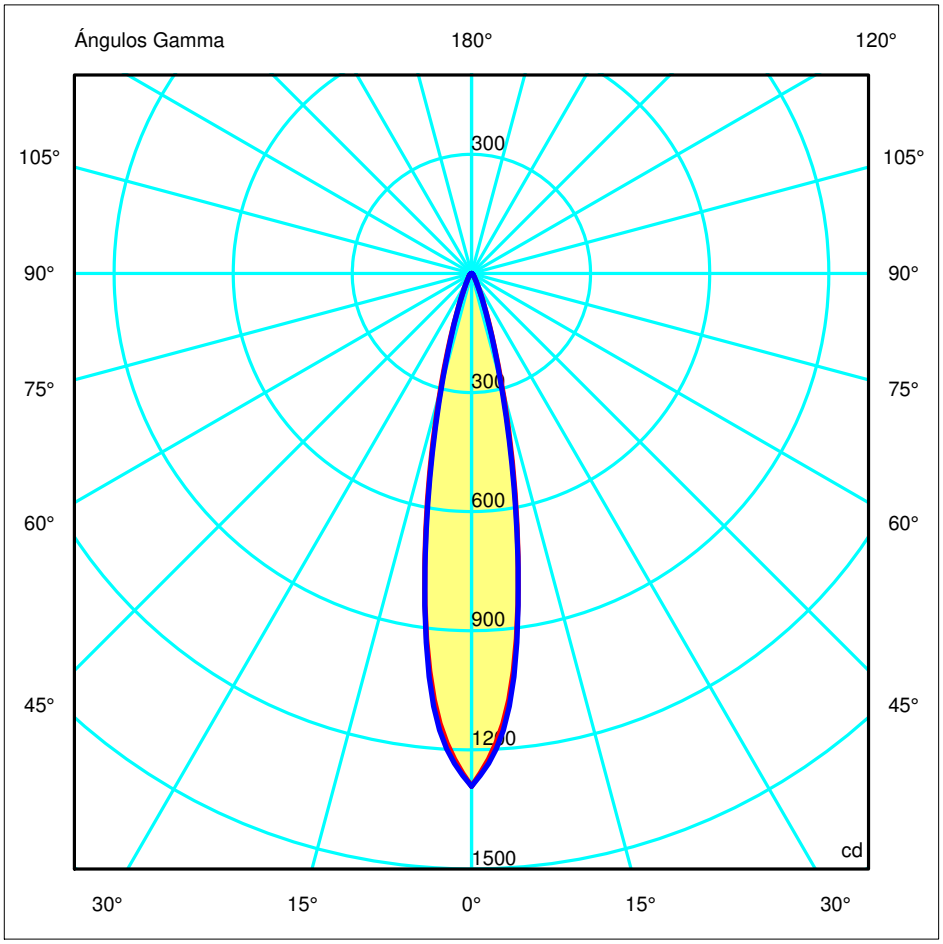
C.I.E.	96 99 100 100 100	D DIN 5040	A60
F UTE	1.00 A	B NBN	BZ 1

Diam=110mm



Semiplanos C

180.0 0.0
270.0 90.0

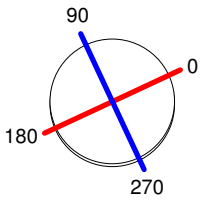


ULOR	0.00 %
DLOR	100.00 %
RN	0.00 %

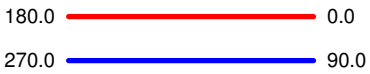
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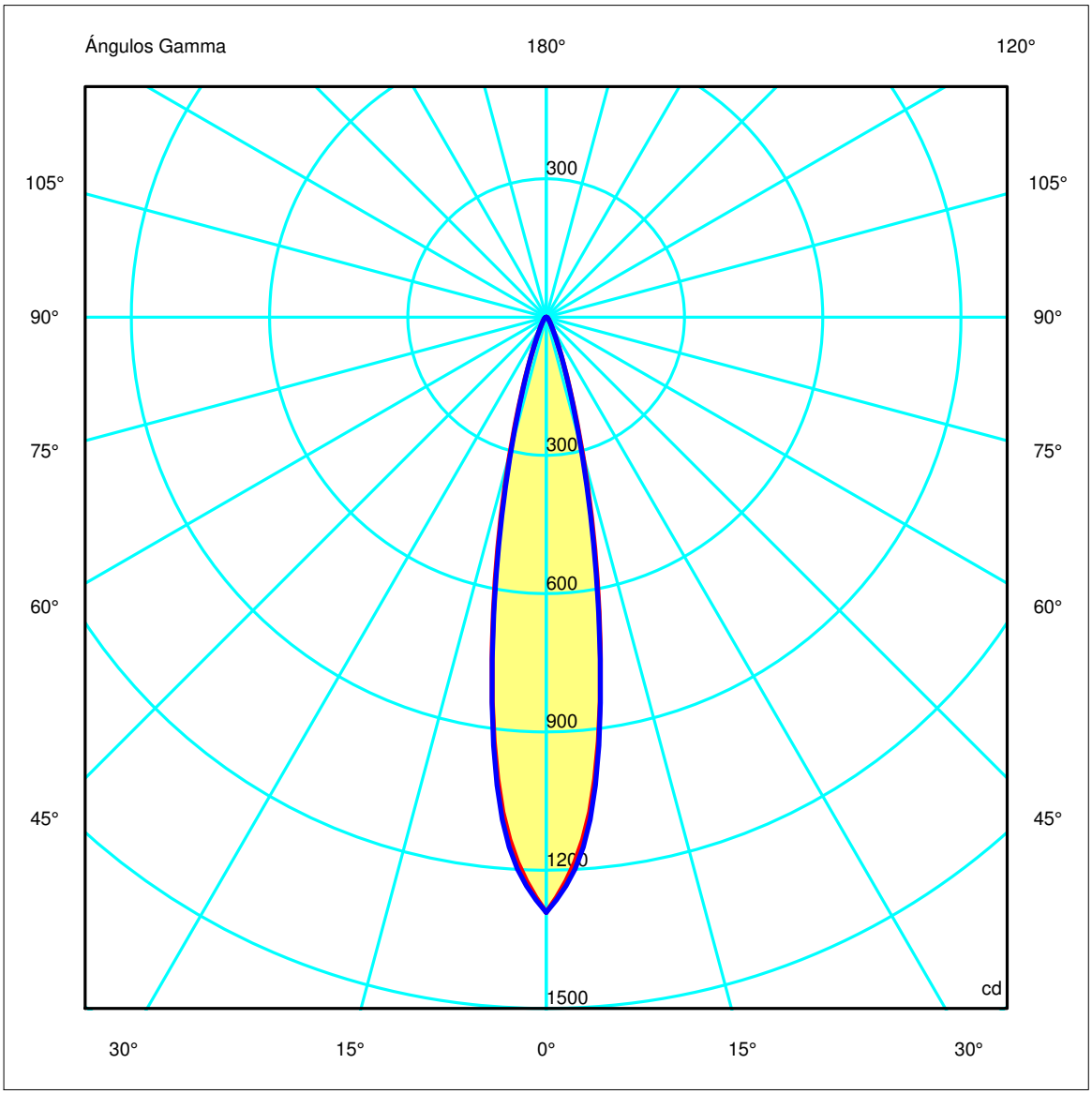
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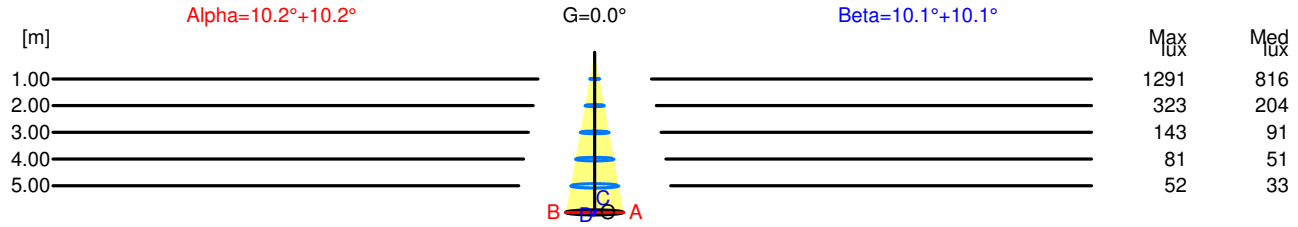
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Width at 50.00 % of Max Intensity

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	1291.41	1077.62	300.52	48.44	14.59	7.60	3.01	1.21	0.43	0.36
OB	1291.41	1077.62	300.52	48.44	14.59	7.60	3.01	1.21	0.43	0.36
OC	1291.41	1094.14	286.16	46.42	15.15	6.85	3.04	1.26	0.47	0.38
OD	1291.41	1094.14	286.16	46.42	15.15	6.85	3.04	1.26	0.47	0.38



H[m]	D[m]	Max lux	Med lux	Alpha=10.2°+10.2° G=0.0
1.00	0.36	1291	816	
2.00	0.72	323	204	
3.00	1.08	143	91	
4.00	1.44	81	51	
5.00	1.80	52	33	

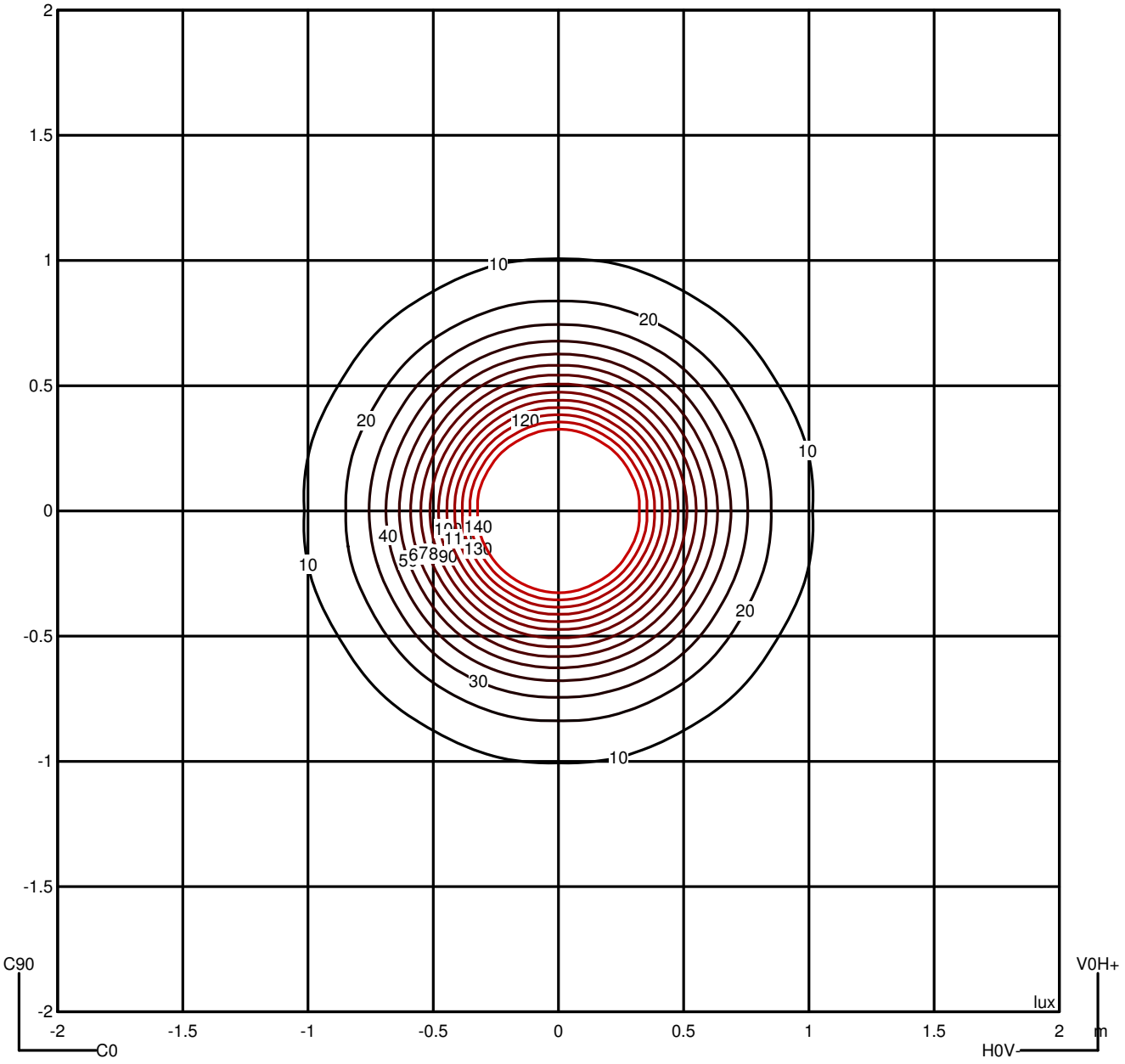
H[m]	D[m]	Max lux	Med lux	Beta=10.1°+10.1° G=0.0
1.00	0.36	1291	816	
2.00	0.71	323	204	
3.00	1.07	143	91	
4.00	1.43	81	51	
5.00	1.79	52	33	

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Isolux (Floor)

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



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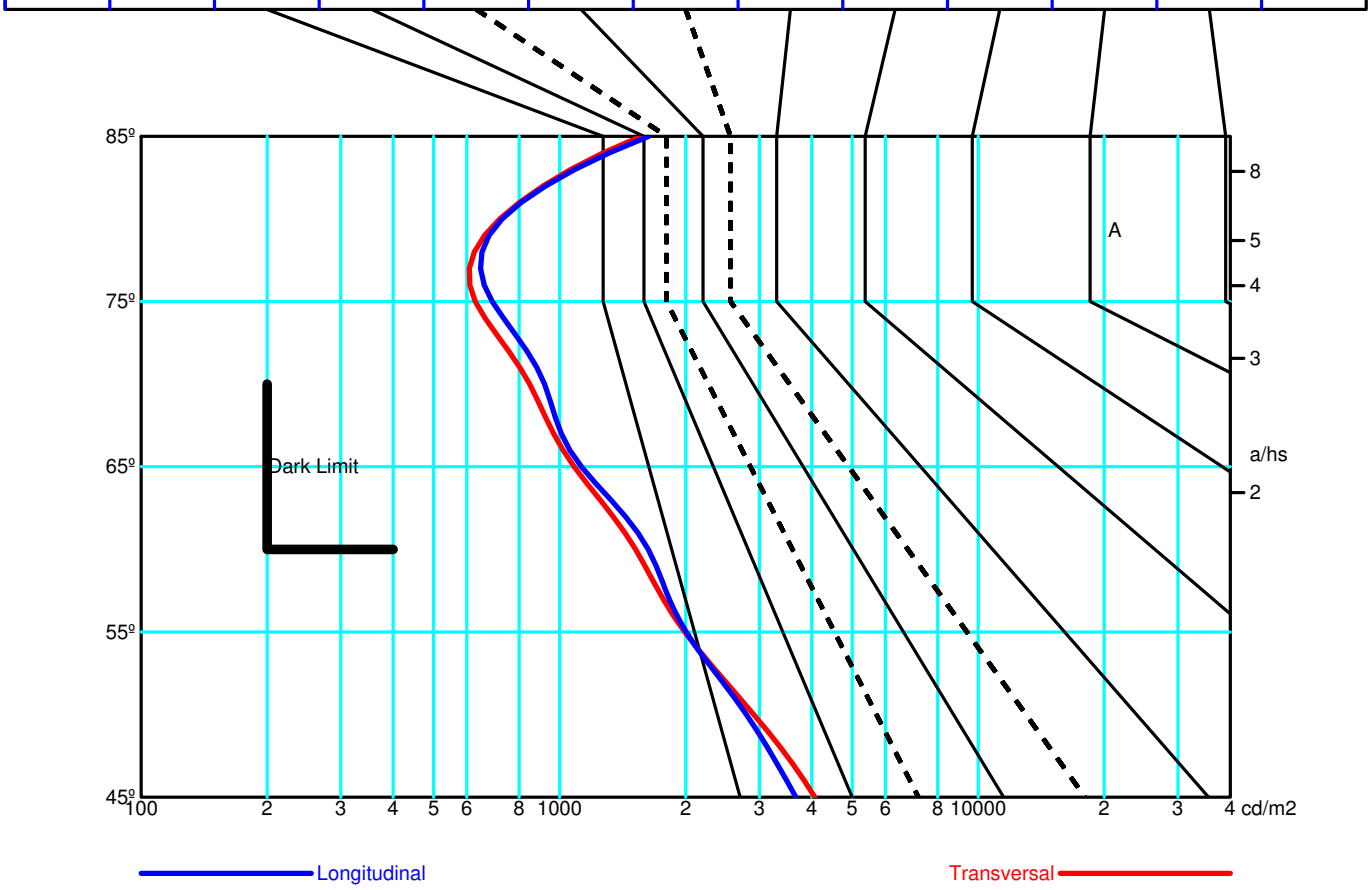
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Average Luminance [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	4070	2909	1989	1519	1083	848	629	719	1563	---
90.0°	3667	2794	2005	1628	1127	920	690	729	1632	---

Flujo montado o vista longitudinal

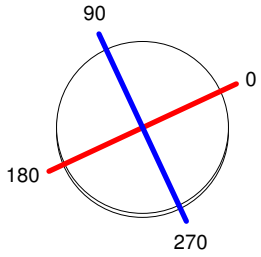
		Iluminancia (lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



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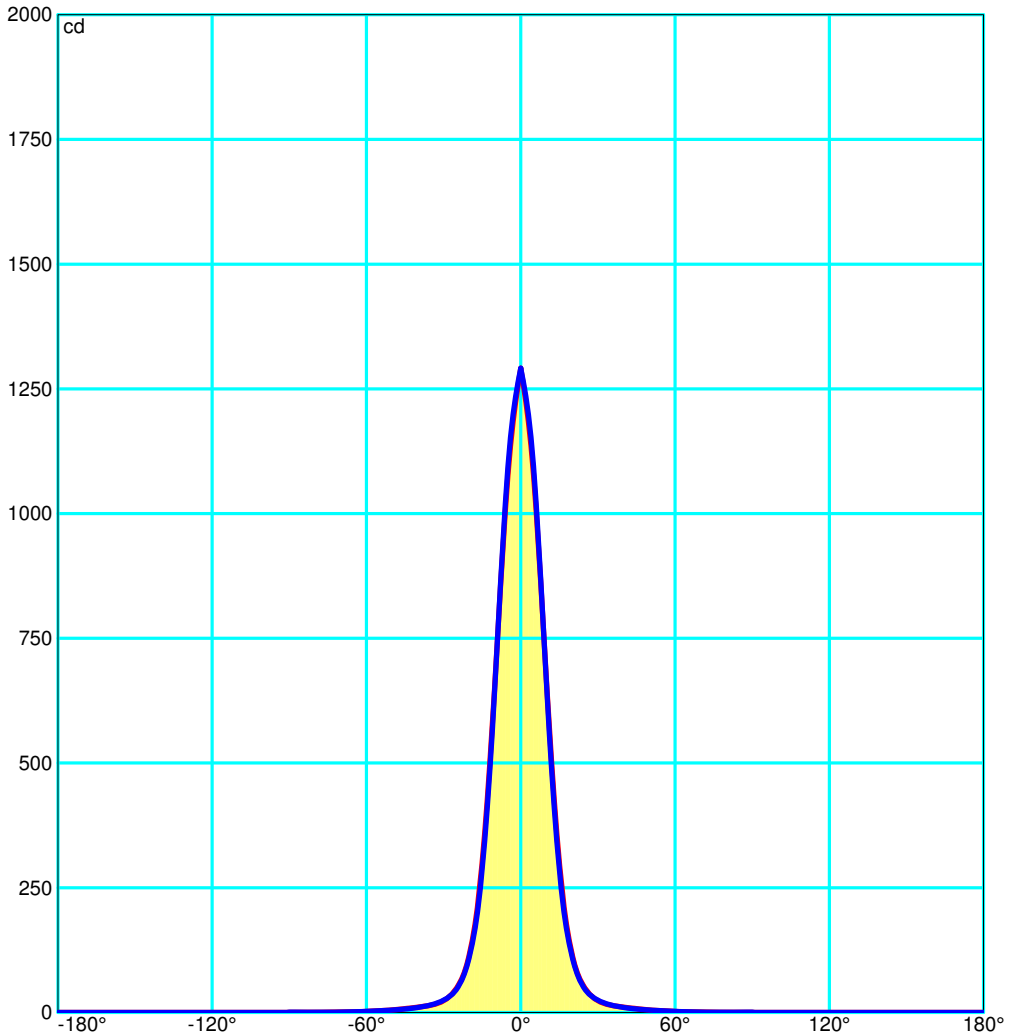
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Semiplanos C





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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	8.0	8.7	8.3	8.9	8.9	7.9	8.6	8.1	8.8	8.9
x=2H y=3H	8.3	8.9	8.5	9.1	9.2	8.1	8.7	8.4	8.9	9.2
x=2H y=4H	8.3	8.9	8.6	9.1	9.2	8.1	8.7	8.4	9.0	9.2
x=2H y=6H	8.3	8.9	8.7	9.2	9.3	8.2	8.7	8.5	9.0	9.3
x=2H y=8H	8.4	8.9	8.7	9.2	9.3	8.2	8.8	8.6	9.1	9.3
x=2H y=12H	8.5	9.0	8.9	9.3	9.5	8.4	8.9	8.8	9.2	9.5
x=4H y=2H	8.2	8.8	8.5	9.0	9.1	8.0	8.6	8.3	8.9	9.1
x=4H y=3H	8.5	9.0	8.8	9.3	9.4	8.3	8.8	8.7	9.1	9.4
x=4H y=4H	8.6	9.0	9.0	9.4	9.5	8.4	8.8	8.8	9.2	9.5
x=4H y=6H	8.7	9.0	9.1	9.4	9.6	8.5	8.9	8.9	9.2	9.6
x=4H y=8H	8.8	9.1	9.2	9.5	9.8	8.7	9.0	9.1	9.3	9.8
x=4H y=12H	9.0	9.3	9.5	9.7	10.0	8.9	9.2	9.4	9.6	10.0
x=8H y=4H	8.6	8.9	9.0	9.3	9.5	8.4	8.7	8.8	9.1	9.5
x=8H y=6H	8.8	9.0	9.2	9.4	9.7	8.6	8.9	9.1	9.3	9.7
x=8H y=8H	9.0	9.2	9.4	9.6	9.9	8.8	9.0	9.3	9.5	9.9
x=8H y=12H	9.4	9.5	9.8	10.0	10.4	9.3	9.4	9.8	9.9	10.4
x=12H y=4H	8.6	8.8	9.0	9.2	9.5	8.4	8.7	8.8	9.1	9.5
x=12H y=6H	8.8	9.0	9.2	9.4	9.7	8.6	8.8	9.1	9.3	9.7
x=12H y=8H	9.0	9.2	9.5	9.7	10.0	8.9	9.1	9.4	9.5	10.0

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Flujo Total=228.58 Flujo Luminaria=228.57

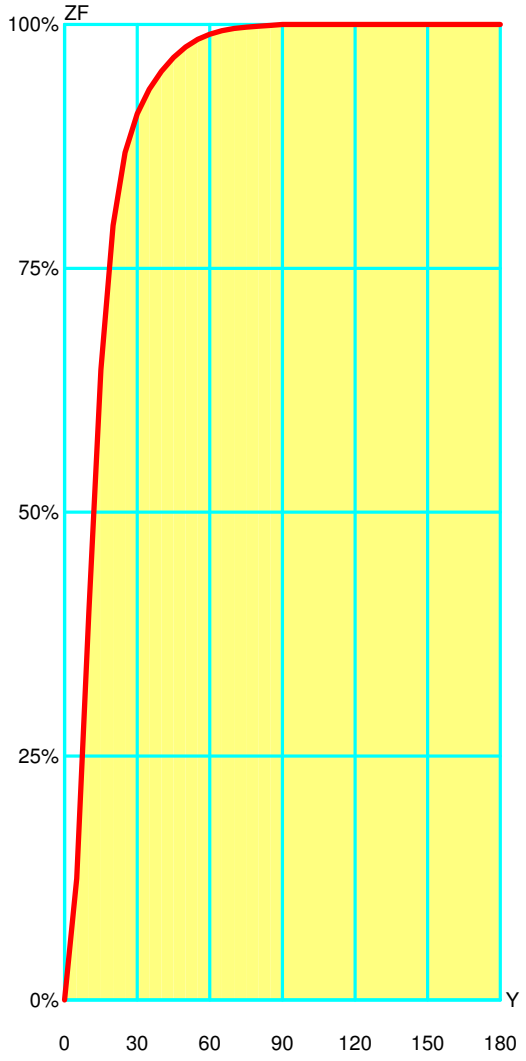
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.70	0.75	0.80	0.84	0.87	0.91	0.94	0.96	0.98	0.99	1.01	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

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 %

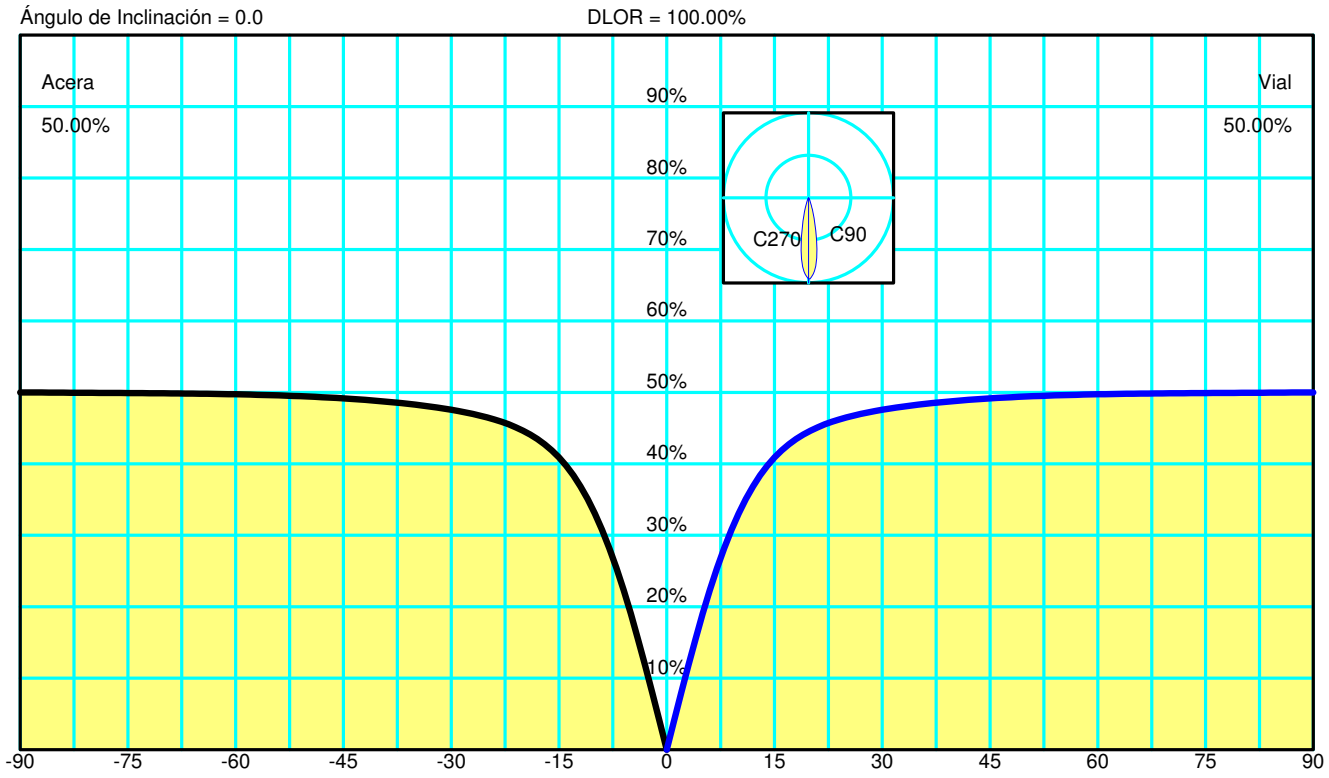


Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	124.51	124.51	12.45 %	12.45 %
10°	273.78	398.29	27.38 %	39.83 %
15°	247.80	646.09	24.78 %	64.61 %
20°	147.84	793.93	14.78 %	79.40 %
25°	74.75	868.68	7.47 %	86.87 %
30°	39.67	908.35	3.97 %	90.84 %
35°	25.10	933.45	2.51 %	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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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%



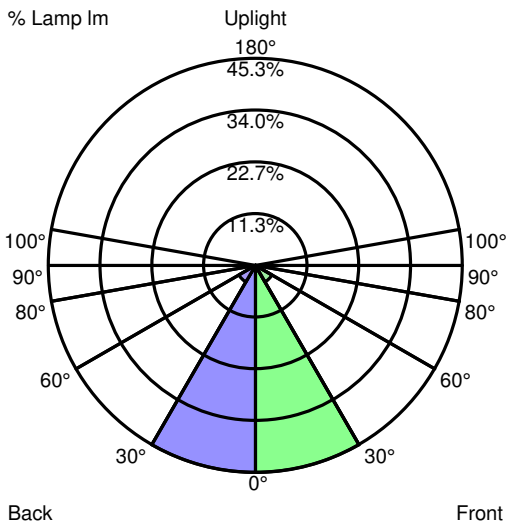
Spread	3.8°	Estrecho		DLOR	99.99738 %
Throw	1.8°	Corto		ULOR	0.00000 %
				Rendimiento	99.99738 %
Cutoff CIE	Cutoff - Max: C=0.0° Gamma=0.0°			RN	0.00000 %
Cutoff Iesna	Cutoff			Clase de Intensidad Luminosa	G5
DIN5044	KB1			Índice de Deslumbramiento	D6

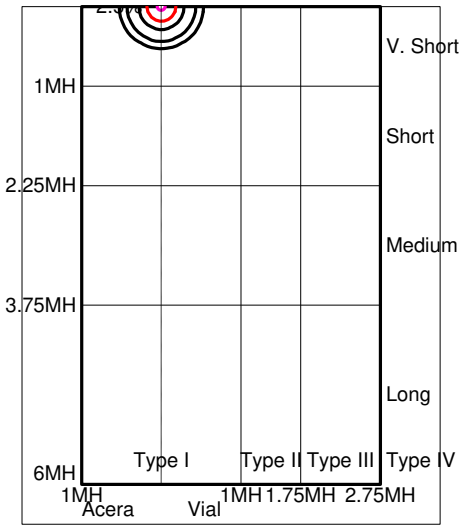
IESNA Type V Very Short Quadrilateral Symmetry

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Name Empotrable suelo 3 leds 3W

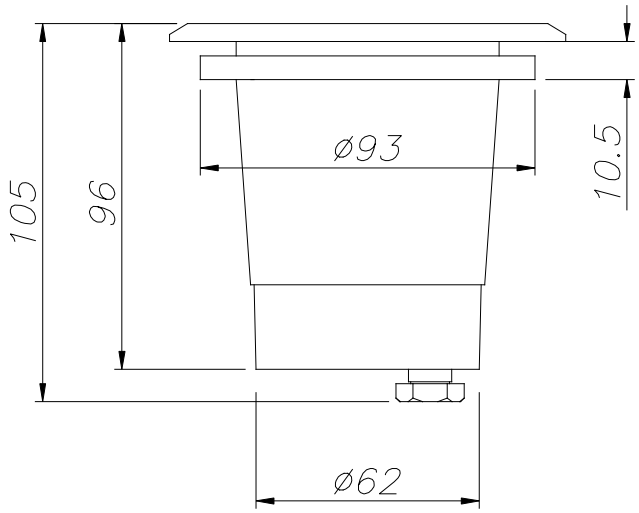
Luminaire Flux	228.57 lm	Luminaire Power	3.00 W	Efficacy	76.19 lm/W	Efficiency	100.00%
Lamps Flux	228.58 lm	Maximum value	1291.41 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

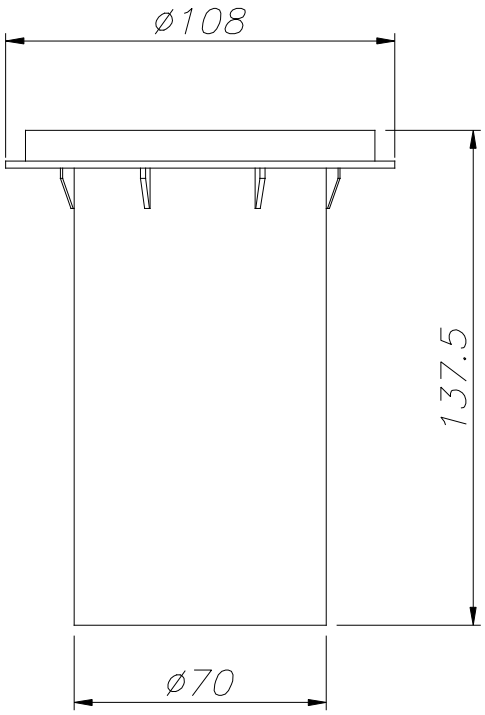
US ROAD STANDARDS



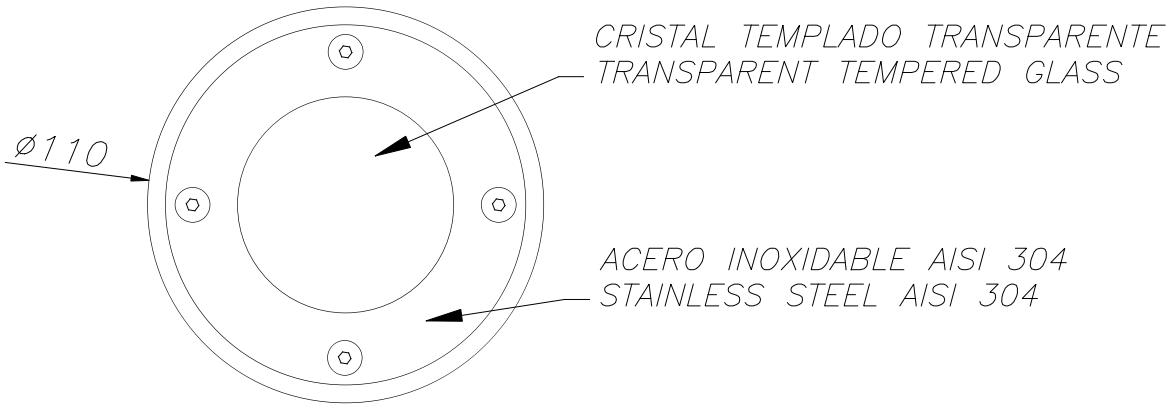


Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	103.6 lm	45.3 %	45.3 %
FM	30° -- 60°	9.5 lm	4.2 %	4.2 %
FH	60° -- 80°	1.0 lm	0.4 %	0.4 %
FVH	80° -- 90°	0.2 lm	0.1 %	0.1 %
BL	0° -- 30°	103.6 lm	45.3 %	45.3 %
BM	30° -- 60°	9.5 lm	4.2 %	4.2 %
BH	60° -- 80°	1.0 lm	0.4 %	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		228.6 lm	100.0 %	100.0 %
BUG B0 U0 G0 Type V Very Short Quadrilateral Symmetry				

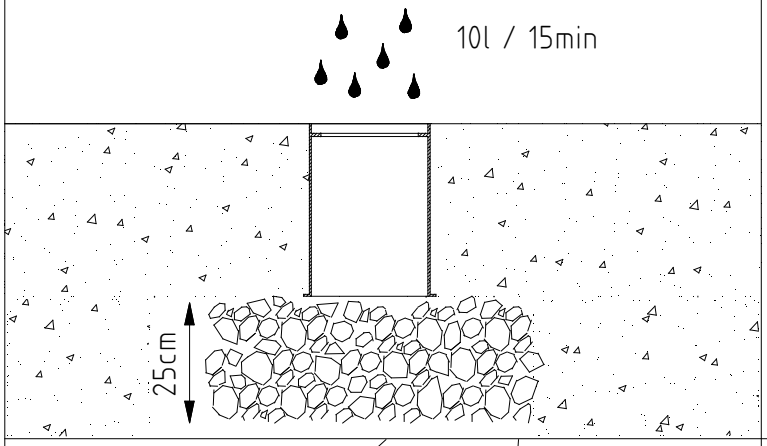




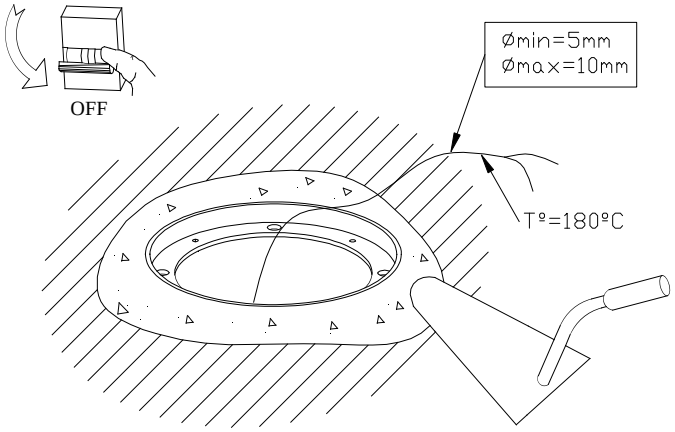
CAJA DE EMPOTRAR
FLUSH FITTING BOX



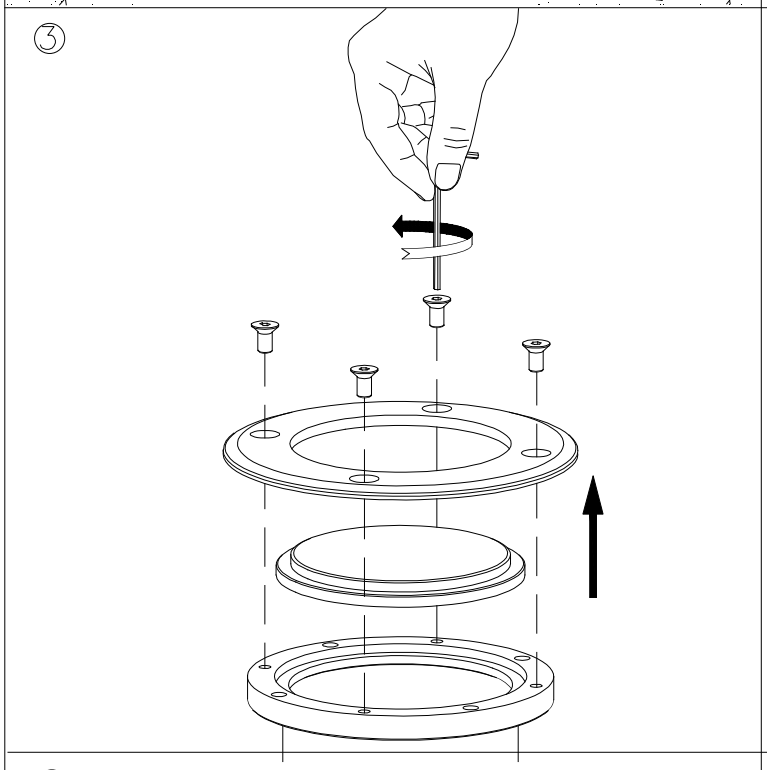
①


10l / 15min
25cm

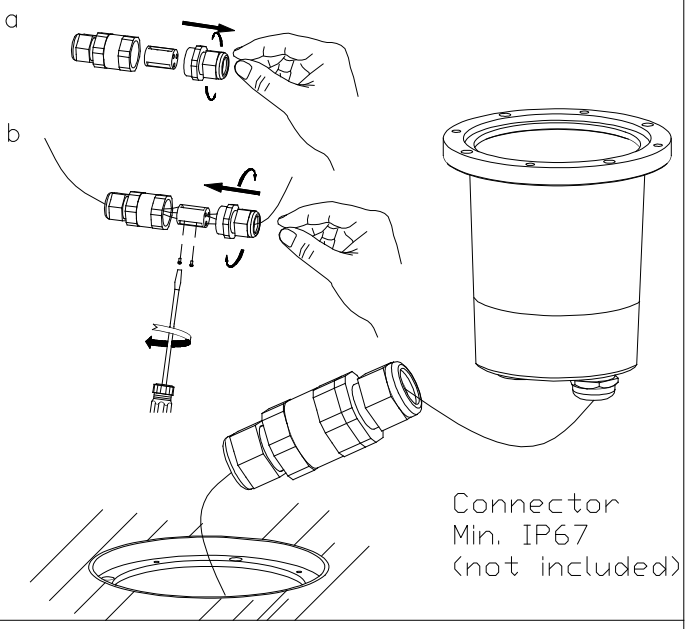
②


OFF
Ømin=5mm
Øma x=10mm
Tº=180ºC

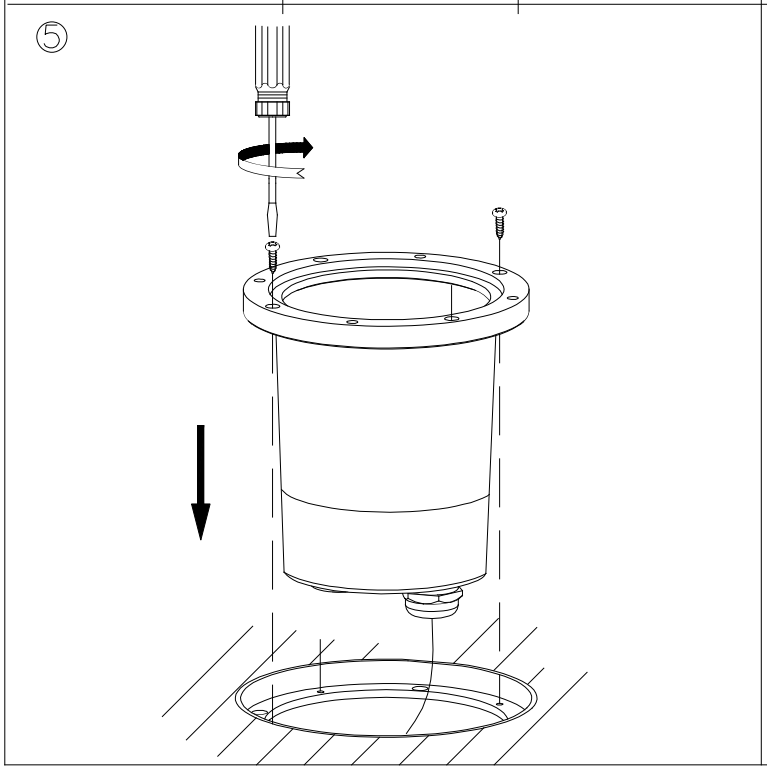
③



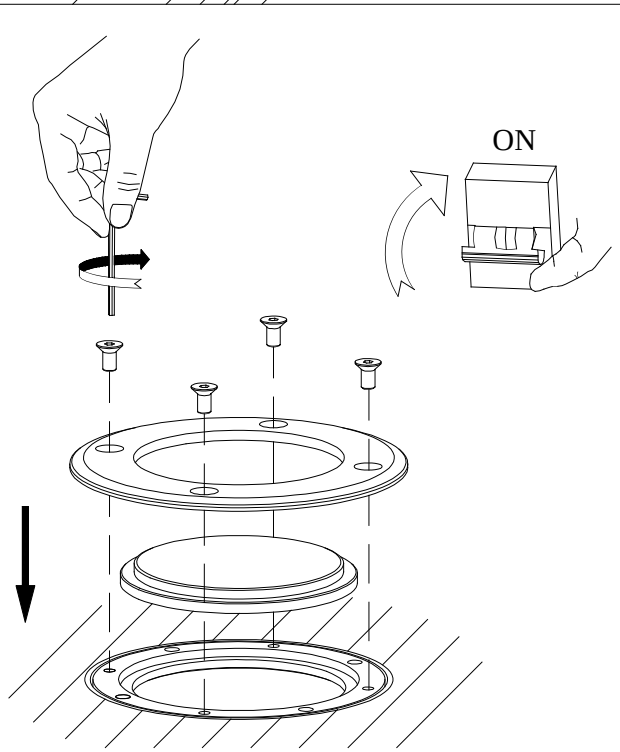
④


a
b
Connector
Min. IP67
(not included)

⑤



⑥


ON