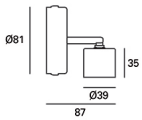
FOR LIGHT

Spoty ø39

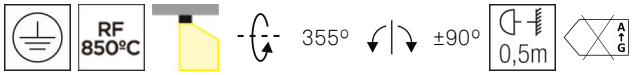
TC-1601-BLA

Proyector SPOTY GU10 8W Blanco 525lm





CARACTERÍSTICAS TÉCNICAS



Potencia total luminaria : 8W

Lúmenes reales : 525

Lm / W reales : 11

Ángulo Ópticas / Reflector : MEDIUM 31º

Material de la estructura : Acero

Acabado estructura : Blanco

Medida máx. de la bombilla : 55/50 mm

Bombilla recomendada : GU10

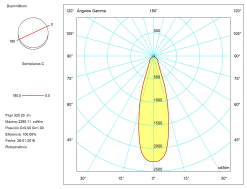
Voltaje / Frecuencia : 100-240V ~ 50/60Hz

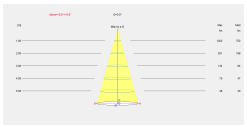
Garantía : 2 Años

Luminaria fácilmente reciclable

CARACTERÍSTICAS LUMINOTÉCNICAS

Portalámparas	Cantidad	Potencia fuente de luz (W)	Temperatura de color correlacionada (CCT)
GU10	1	Potencia máx. 8W	-





LOGÍSTICA

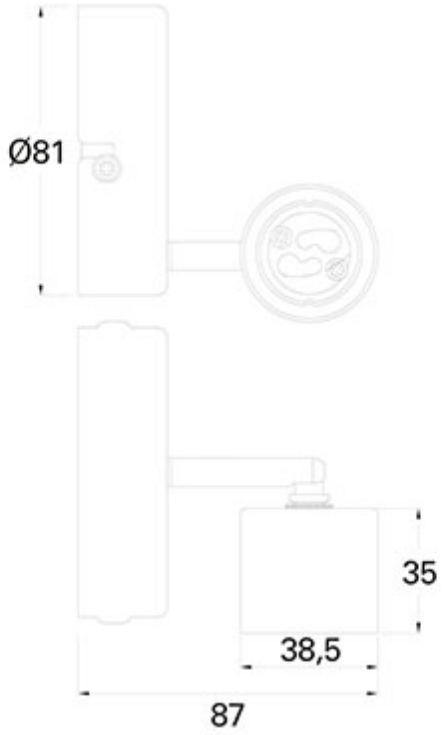
Peso neto (Kg): 0.16

Peso embalado (Kg): 0.2

Embalaje: 90mm x 90mm x 100mm

40 Un

APLICACIÓN DE LA LUMINARIA



La imagen puede no coincidir con la referencia, LEDS C4 se reserva el derecho de modificación de alguno de los componentes que componen el producto. Los datos relativos al flujo, la potencia y la Temperatura de Color están sujetos a una tolerancia de +- 10%.

Luminaire
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY
Measurem.
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

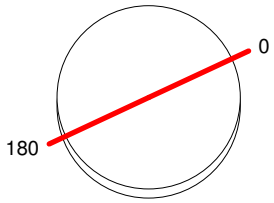
Round Luminaire	Diam. 38 mm	Height	35 mm
Round Luminous Area	Diam. 20 mm	Height	10 mm
Horizontal Luminous Area	0.000314 m2	Emitting area on Plane 180°	0.000200 m2
Emitting area on Plane 0°	0.000200 m2	Emitting area on Plane 270°	0.000200 m2
Emitting area on Plane 90°	0.000200 m2	Glare area at 76°	0.000270 m2
Coordinate system	CG	Symmetry Type	Rotosymmetrical
Date	28-01-2016	Maximum Gamma Angle	180
Measurement Distance	0.00	Measurement Flux	525.20 lm
Operator		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
	HALOPAR 16 50W	HALOPAR 16 50W	525.20	50.00	1

C.I.E.	82 94 97 100 100	D DIN 5040	A60
F UTE	1.00 B	B NBN	BZ 1

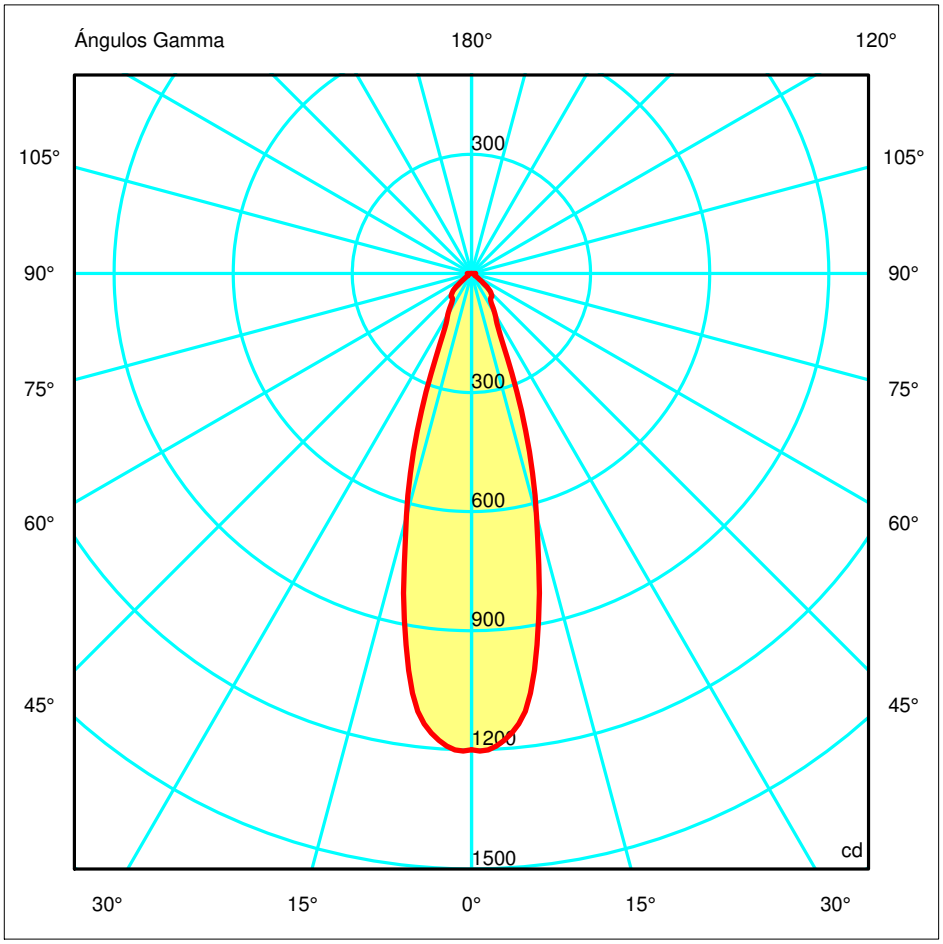
Diam=38mm



Semiplanos C

180.0 0.0

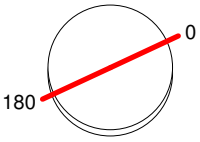
ULOR	0.11 %
DLOR	99.89 %
RN	0.11 %



Luminaire
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY
Measurem.
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY

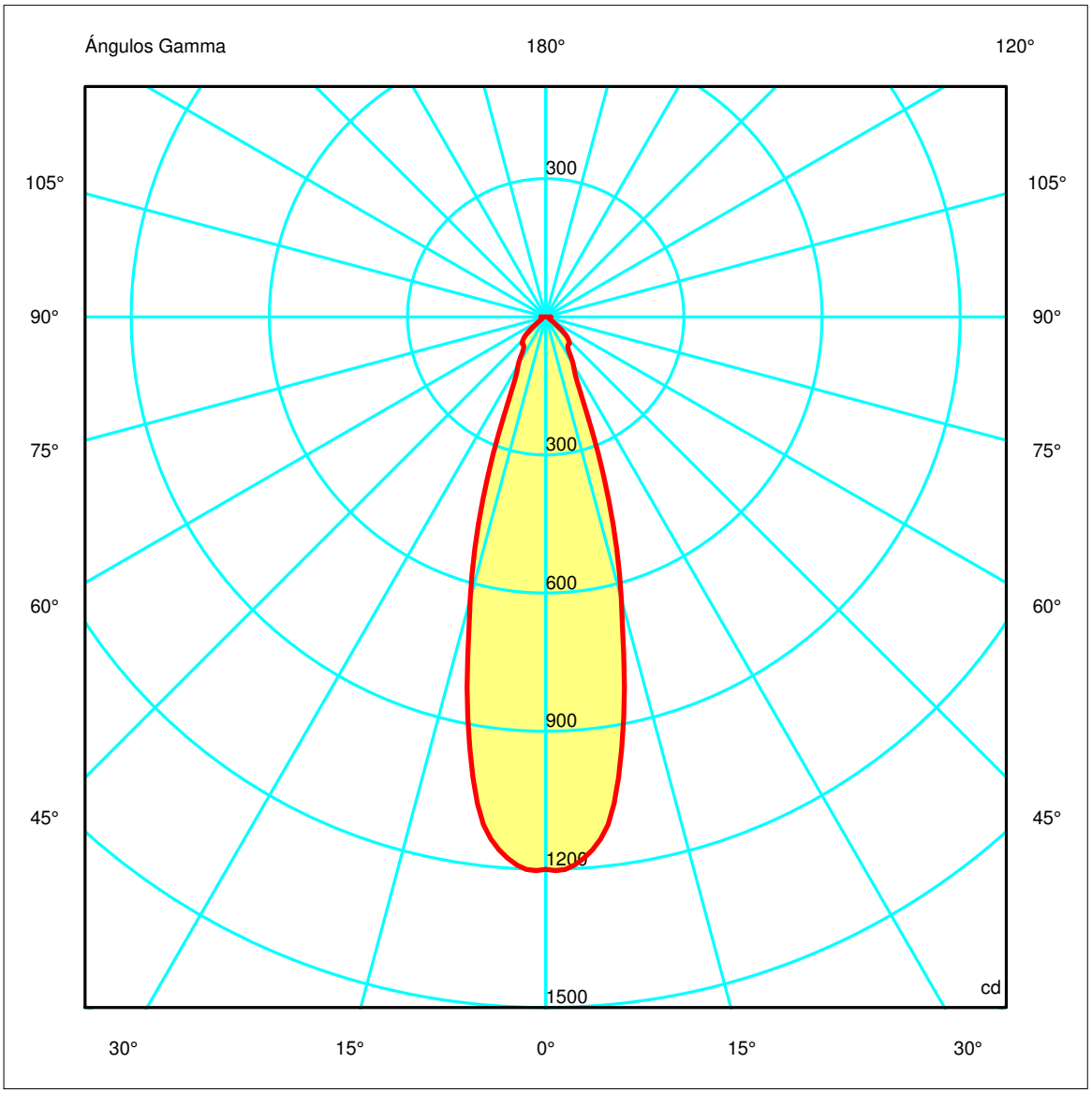
Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Diam=38mm



Semiplanos C





Luminaire
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY
Measurem.
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY

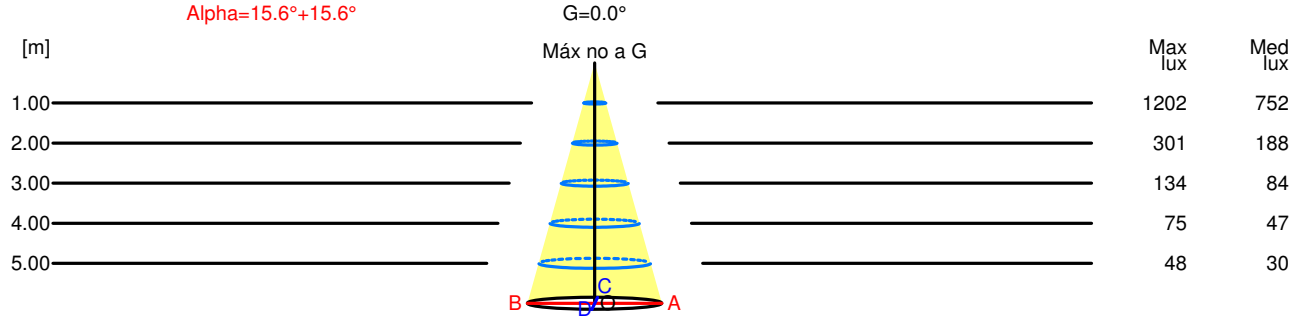
Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

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	0.28	0.56	0.84	1.12	1.40	OC	0.28	0.56	0.84	1.12	1.40
OB	0.28	0.56	0.84	1.12	1.40	OD	0.28	0.56	0.84	1.12	1.40

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	1199.67	1161.97	633.51	172.30	84.58	68.93	20.11	9.34	9.76	9.40
OB	1199.67	1161.97	633.51	172.30	84.58	68.93	20.11	9.34	9.76	9.40
OC	1199.67	1161.97	633.51	172.30	84.58	68.93	20.11	9.34	9.76	9.40
OD	1199.67	1161.97	633.51	172.30	84.58	68.93	20.11	9.34	9.76	9.40



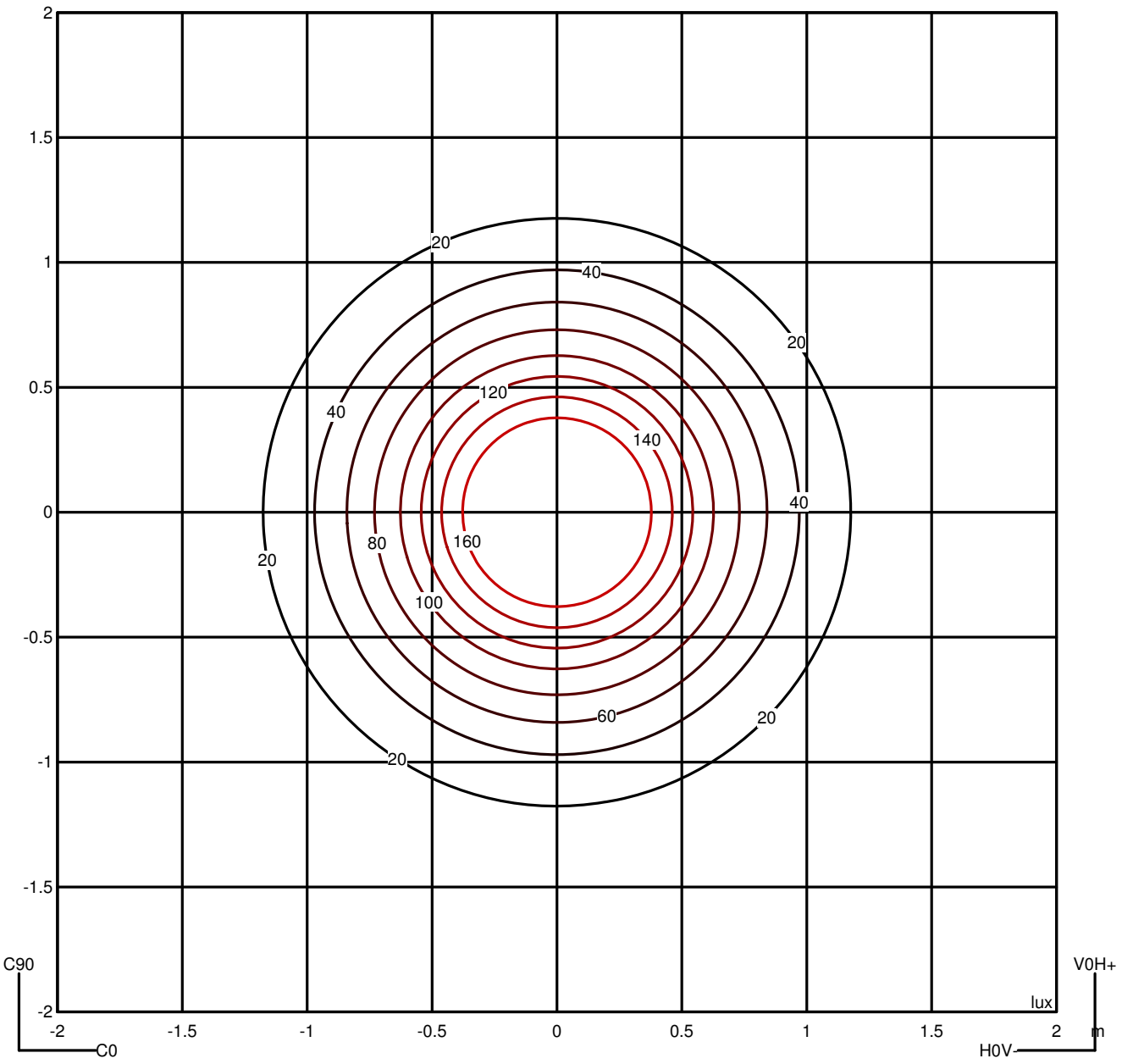
H[m]	D[m]	Max lux	Med lux	Alpha=15.6°+15.6°	G=0.0 Máx no a G
1.00	0.56	1202	752		
2.00	1.12	301	188		
3.00	1.68	134	84		
4.00	2.24	75	47		
5.00	2.80	48	30		

Luminaire
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY
Measurem.
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Isolux (Floor)

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



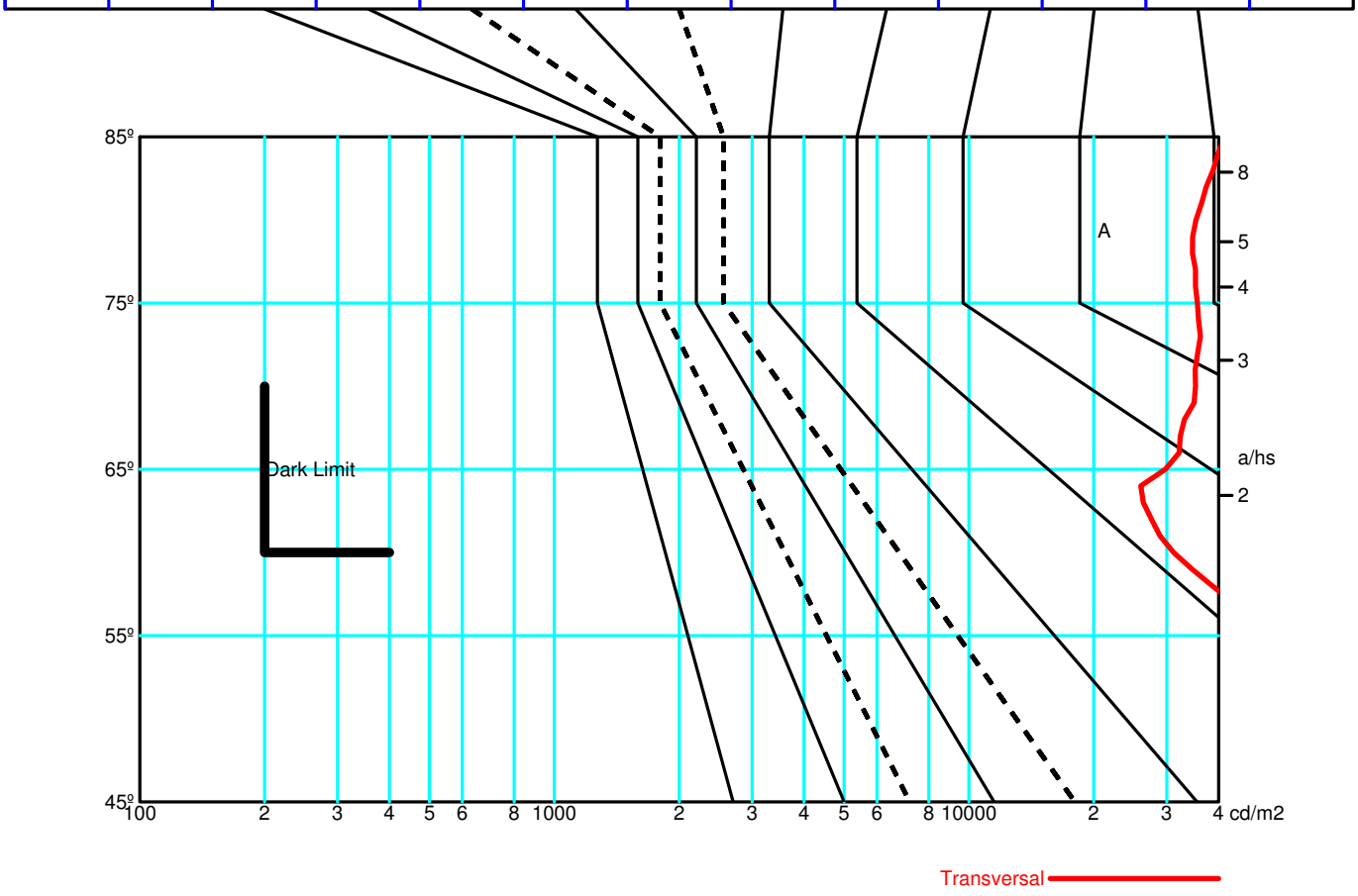
Luminaire
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY
Measurem.
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Average Luminance [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	189600	127573	58447	31155	29758	35191	35574	35276	41468	---

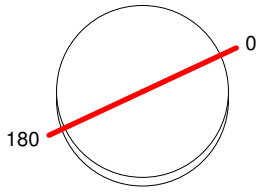
Flujo montado o vista longitudinal												
		Iluminancia (lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



Luminaire
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY
Measurem.
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY

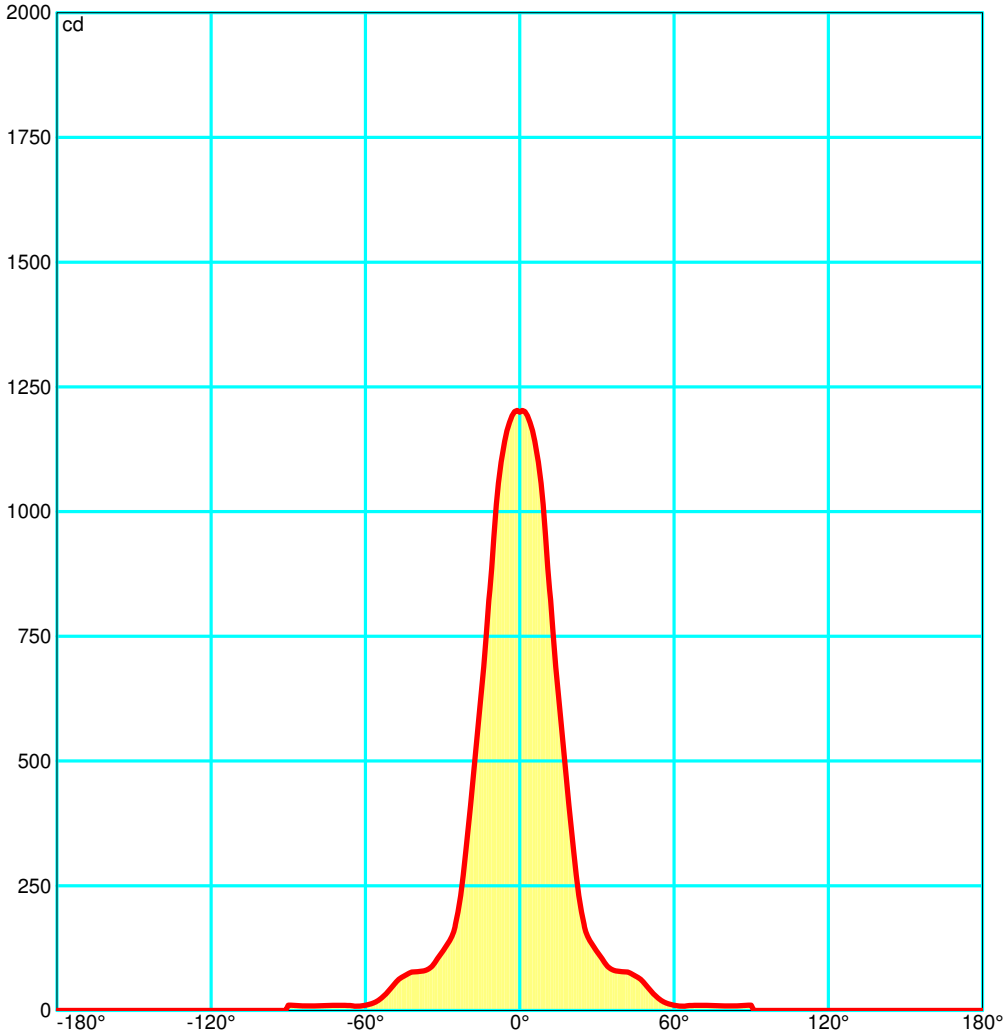
Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Diam=38mm



Semiplanos C





Luminaire
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY
Measurem.
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

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	24.6	25.4	24.8	25.6	25.8	24.6	25.4	24.8	25.6	25.8
x=2H y=3H	24.9	25.7	25.2	25.9	26.2	24.9	25.7	25.2	25.9	26.2
x=2H y=4H	25.2	26.0	25.6	26.2	26.5	25.2	26.0	25.6	26.2	26.5
x=2H y=6H	25.6	26.3	26.0	26.6	26.9	25.6	26.3	26.0	26.6	26.9
x=2H y=8H	25.9	26.6	26.3	26.9	27.2	25.9	26.6	26.3	26.9	27.2
x=2H y=12H	26.2	26.9	26.6	27.2	27.5	26.2	26.9	26.6	27.2	27.5
x=4H y=2H	24.6	25.3	24.9	25.6	25.8	24.6	25.3	24.9	25.6	25.8
x=4H y=3H	25.1	25.8	25.5	26.1	26.4	25.1	25.8	25.5	26.1	26.4
x=4H y=4H	25.6	26.2	26.0	26.5	26.9	25.6	26.2	26.0	26.5	26.9
x=4H y=6H	26.3	26.7	26.7	27.1	27.5	26.3	26.7	26.7	27.1	27.5
x=4H y=8H	26.7	27.1	27.1	27.5	27.9	26.7	27.1	27.1	27.5	27.9
x=4H y=12H	27.2	27.5	27.6	27.9	28.4	27.2	27.5	27.6	27.9	28.4
x=8H y=4H	25.9	26.3	26.3	26.7	27.1	25.9	26.3	26.3	26.7	27.1
x=8H y=6H	26.7	27.1	27.2	27.5	27.9	26.7	27.1	27.2	27.5	27.9
x=8H y=8H	27.3	27.6	27.7	28.0	28.5	27.3	27.6	27.7	28.0	28.5
x=8H y=12H	27.9	28.2	28.4	28.7	29.2	27.9	28.2	28.4	28.7	29.2
x=12H y=4H	25.9	26.3	26.4	26.7	27.1	25.9	26.3	26.4	26.7	27.1
x=12H y=6H	26.8	27.1	27.3	27.6	28.1	26.8	27.1	27.3	27.6	28.1
x=12H y=8H	27.5	27.7	28.0	28.2	28.7	27.5	27.7	28.0	28.2	28.7

Luminaire
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY
Measurem.
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Flujo Total=525.20 Flujo Luminaria=525.20

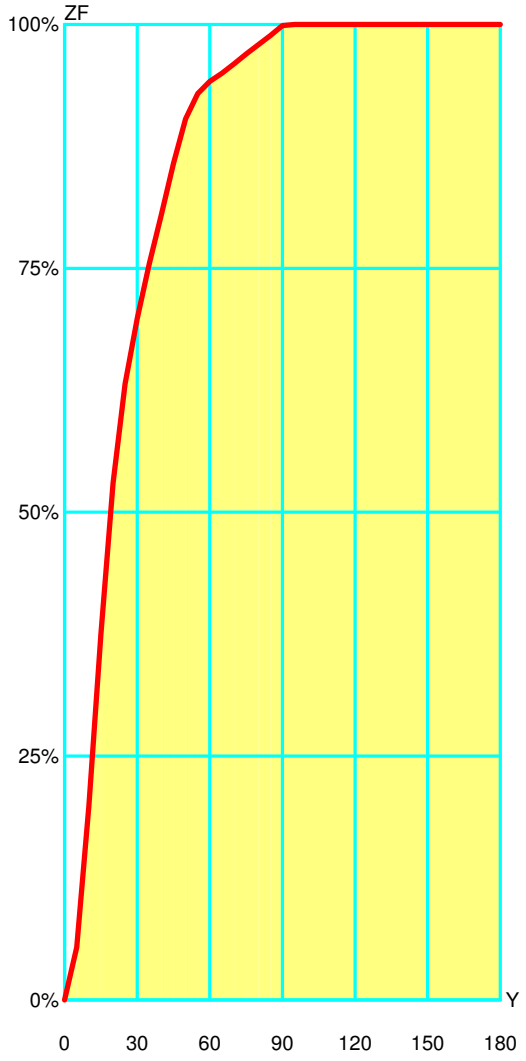
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.59	0.65	0.71	0.75	0.79	0.84	0.88	0.90	0.93	0.94	0.97	0.99
RC	-	-	-	-	1	1	1	1	1	1	-	-

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)	199	530	699	805	903	942	960	979	999	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.
82 94 97 100 100

C.I.E.	-/-/-/-/1/1/1/1/1/1/-/-	LOR	100.00000 %
D DIN 5040	A60	ULOR	0.11126 %
F UTE	1.00 B	DLOR	99.88874 %
B NBN	BZ 1	UFF	0.11126 %
RN	0.11126 %	DFF	99.88874 %
BLF	1.0	FFR	0.11138 %

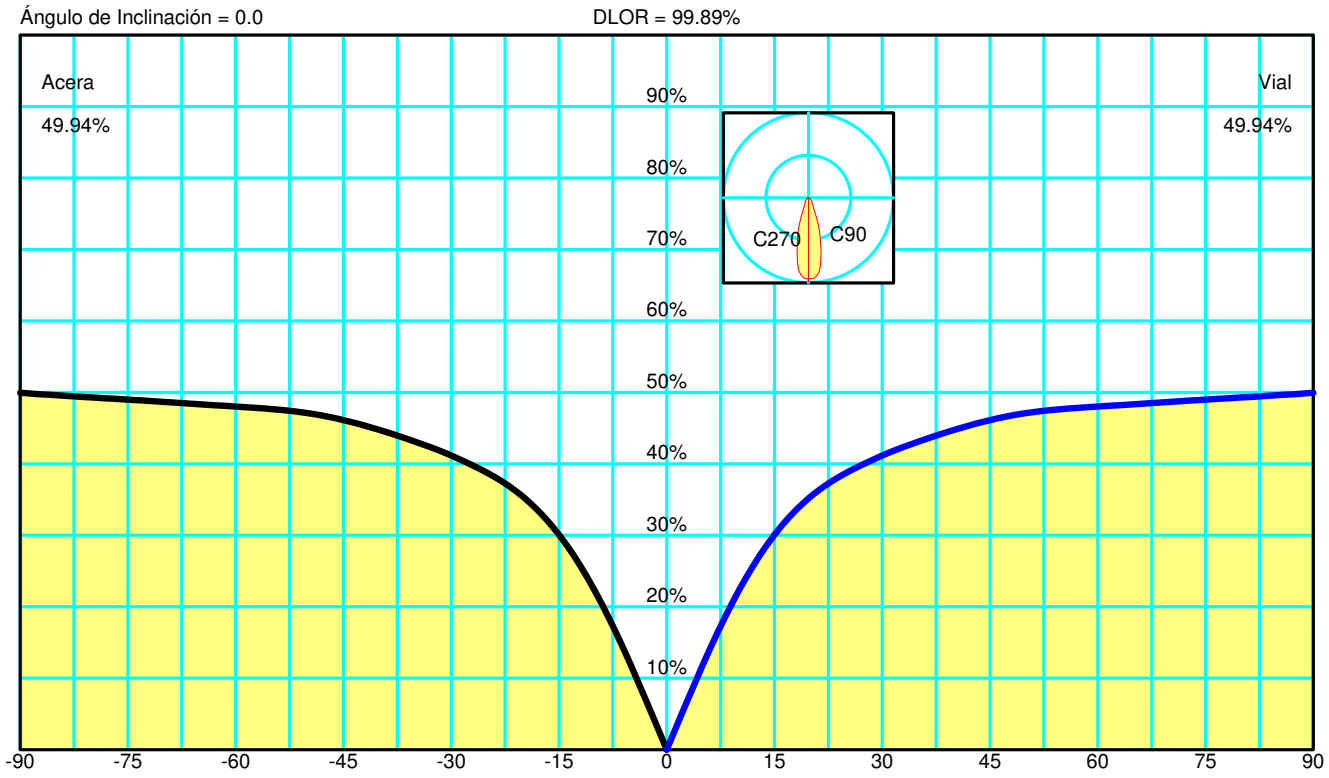


Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	53.93	53.93	5.39 %	5.39 %
10°	145.22	199.16	14.52 %	19.92 %
15°	175.79	374.94	17.58 %	37.49 %
20°	155.04	529.98	15.50 %	53.00 %
25°	101.45	631.43	10.15 %	63.14 %
30°	67.07	698.50	6.71 %	69.85 %
35°	56.09	754.59	5.61 %	75.46 %
40°	50.62	805.21	5.06 %	80.52 %
45°	52.70	857.91	5.27 %	85.79 %
50°	45.22	903.14	4.52 %	90.31 %
55°	25.92	929.06	2.59 %	92.91 %
60°	12.51	941.57	1.25 %	94.16 %
65°	8.31	949.87	0.83 %	94.99 %
70°	9.69	959.56	0.97 %	95.96 %
75°	10.11	969.67	1.01 %	96.97 %
80°	9.39	979.06	0.94 %	97.91 %
85°	9.43	988.49	0.94 %	98.85 %
90°	10.40	998.89	1.04 %	99.89 %
95°	1.11	1000.00	0.11 %	100.00 %
100°	0.00	1000.00	0.00 %	100.00 %
105°	0.00	1000.00	0.00 %	100.00 %
110°	0.00	1000.00	0.00 %	100.00 %
115°	0.00	1000.00	0.00 %	100.00 %
120°	0.00	1000.00	0.00 %	100.00 %
125°	0.00	1000.00	0.00 %	100.00 %
130°	0.00	1000.00	0.00 %	100.00 %
135°	0.00	1000.00	0.00 %	100.00 %
140°	0.00	1000.00	0.00 %	100.00 %
145°	0.00	1000.00	0.00 %	100.00 %
150°	0.00	1000.00	0.00 %	100.00 %
155°	0.00	1000.00	0.00 %	100.00 %
160°	0.00	1000.00	0.00 %	100.00 %
165°	0.00	1000.00	0.00 %	100.00 %
170°	0.00	1000.00	0.00 %	100.00 %
175°	0.00	1000.00	0.00 %	100.00 %
180°	0.00	1000.00	0.00 %	100.00 %

Luminaire
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY
Measurem.
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Pavement			Road		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	11.82%	Piano	5	11.82%
Piano	-10	22.22%	Piano	10	22.22%
Piano	-15	30.08%	Piano	15	30.08%
Piano	-20	35.40%	Piano	20	35.40%
Piano	-25	38.74%	Piano	25	38.74%
Piano	-30	41.16%	Piano	30	41.16%
Piano	-35	43.10%	Piano	35	43.10%
Piano	-40	44.74%	Piano	40	44.74%
Piano	-45	46.12%	Piano	45	46.12%
Piano	-50	47.10%	Piano	50	47.10%
Piano	-55	47.66%	Piano	55	47.66%
Piano	-60	48.02%	Piano	60	48.02%
Piano	-65	48.33%	Piano	65	48.33%
Piano	-70	48.66%	Piano	70	48.66%
Piano	-75	48.99%	Piano	75	48.99%
Piano	-80	49.29%	Piano	80	49.29%
Piano	-85	49.60%	Piano	85	49.60%
Piano	-90	49.94%	Piano	90	49.94%



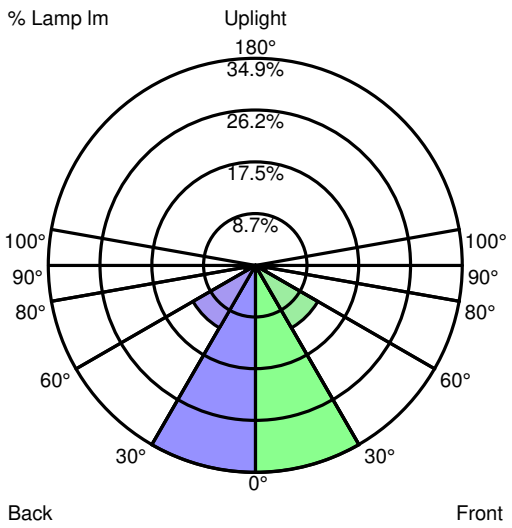
Spread	7.6°	Estrecho		DLOR	99.88874 %
Throw	3.8°	Corto		ULOR	0.11126 %
				Rendimiento	100.00000 %
Cutoff CIE	Semi Cutoff - Max: C=0.0° Gamma=1.0°			RN	0.11126 %
Cutoff Iesna	Cutoff			Clase de Intensidad Luminosa	G2
DIN5044	KB2			Índice de Deslumbramiento	D5

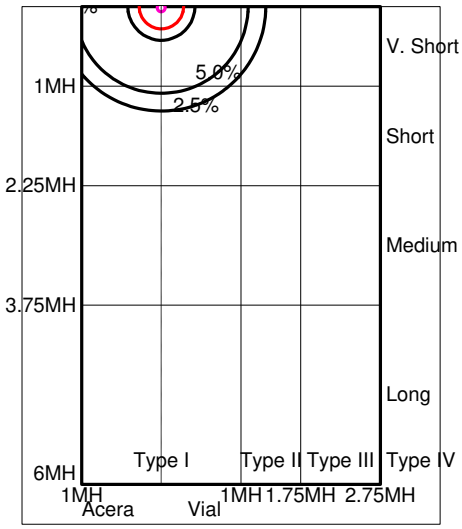
IESNA Type V Very Short Quadrilateral Symmetry

Luminaire
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY
Measurem.
Code TC-1601-BLA
Name HALOPAR 16 50W SPOTY

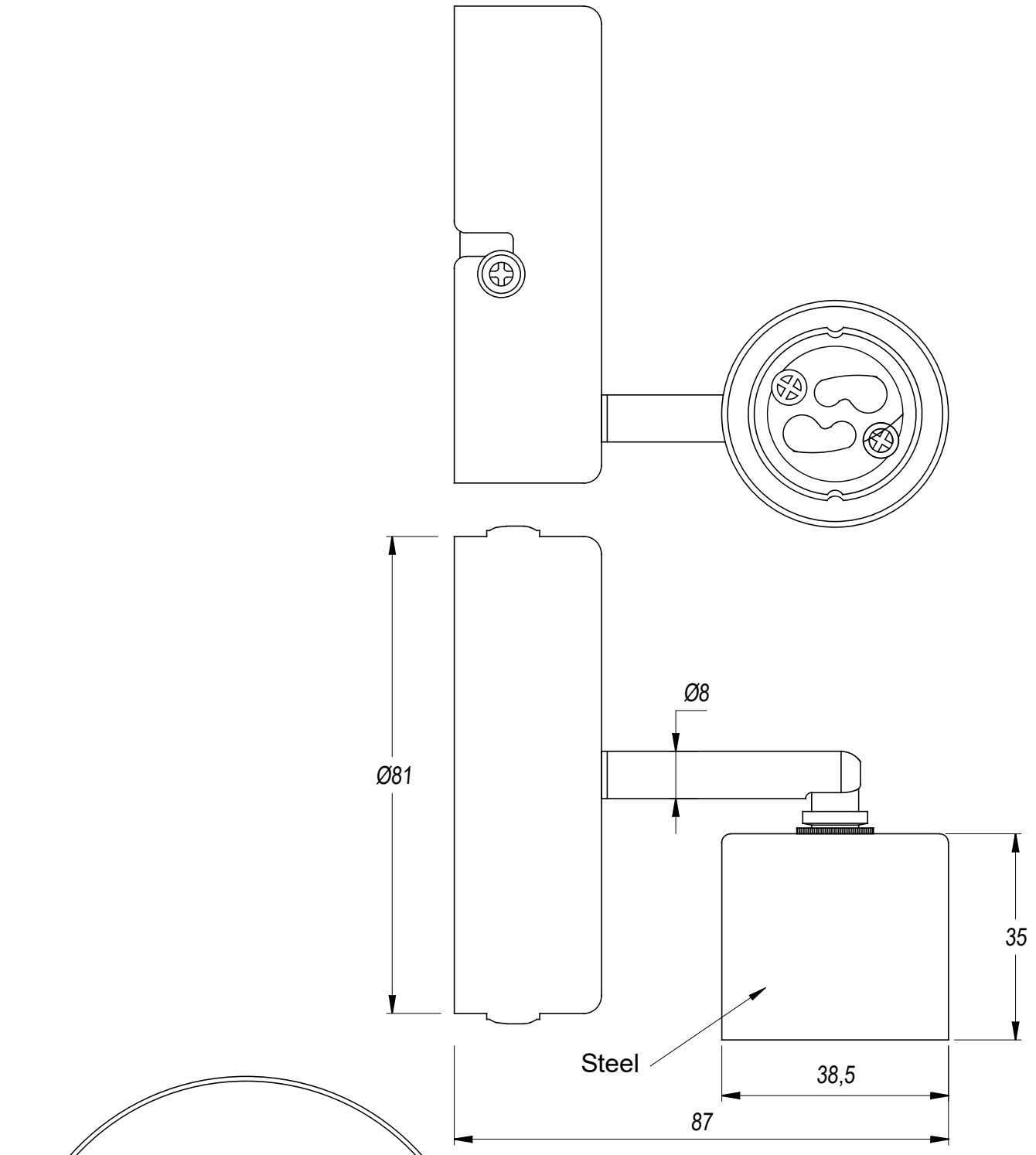
Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

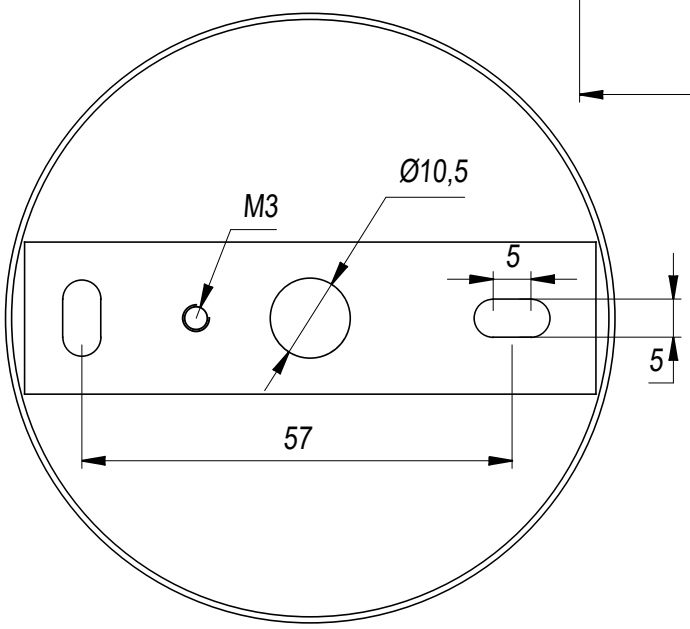
US ROAD STANDARDS





Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	183.4 lm	34.9 %	34.9 %
FM	30° -- 60°	63.9 lm	12.2 %	12.2 %
FH	60° -- 80°	9.8 lm	1.9 %	1.9 %
FVH	80° -- 90°	5.2 lm	1.0 %	1.0 %
BL	0° -- 30°	183.4 lm	34.9 %	34.9 %
BM	30° -- 60°	63.9 lm	12.2 %	12.2 %
BH	60° -- 80°	9.8 lm	1.9 %	1.9 %
BVH	80° -- 90°	5.2 lm	1.0 %	1.0 %
UL	90° -- 100°	0.6 lm	0.1 %	0.1 %
UH	100° -- 180°	0.0 lm	0.0 %	0.0 %
TOTALS		525.2 lm	100.0 %	100.0 %
BUG B1 U1 G0 Type V Very Short Quadrilateral Symmetry				

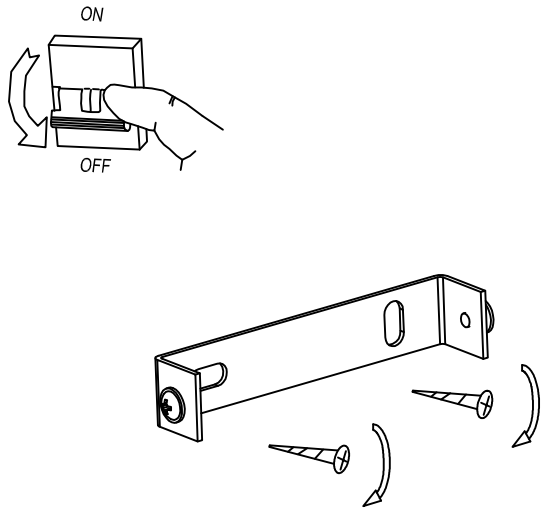




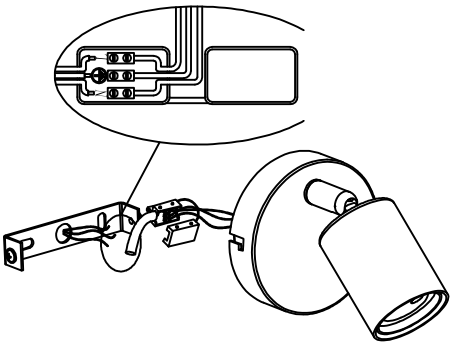
Scale 1:1

14-04-2015

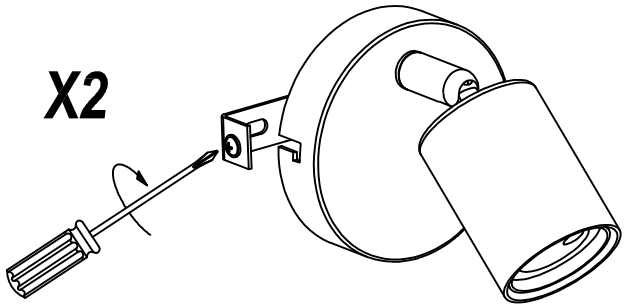
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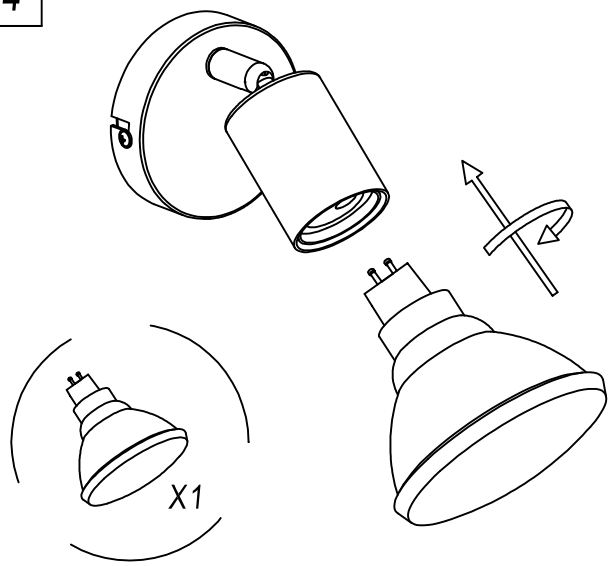
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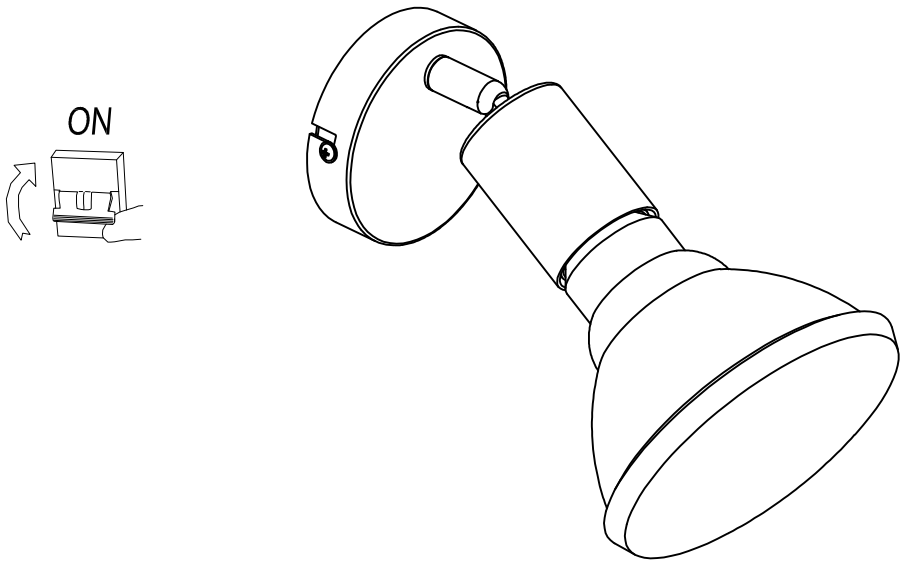
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4



5



08-07-15