

Luminaire

Code TC-0172-BLA
Name 15W-GU10 (AR-111)

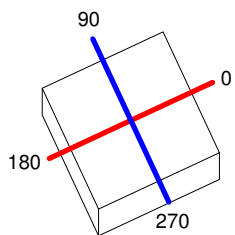
Measur.

Code TC-0172-BLA
Name 15W-GU10 (AR-111)

Luminaire Flux	1782.18 lm	Luminaire Power	14.30 W	Efficacy	124.63 lm/W	Efficiency	100.00%
Lamps Flux	1782.18 lm	Maximum value	6387.82 cd	Position	C=240.00 G=4.00	CG	Asymmetrical
Rectangular Luminaire Rectangular Luminous Area	Length Length	179 mm 179 mm	Width Width	179 mm 179 mm	Height Height	103 mm 102 mm	
Horizontal Luminous Area Emitting area on Plane 0° Emitting area on Plane 90°	0.032041 m2 0.018437 m2 0.018437 m2		Emitting area on Plane 180° Emitting area on Plane 270° Glare area at 76°	0.018437 m2 0.018437 m2 0.025641 m2			
Coordinate system Date Measurement Distance	CG 27-01-2016 0.00		Symmetry Type Maximum Gamma Angle Measurement Flux	Asymmetrical 90 1782.18 lm			
Operator Temperature Humidity Notes	25.00 °C 60.00 %		Source Voltage [V] Source current [A] Photocell				

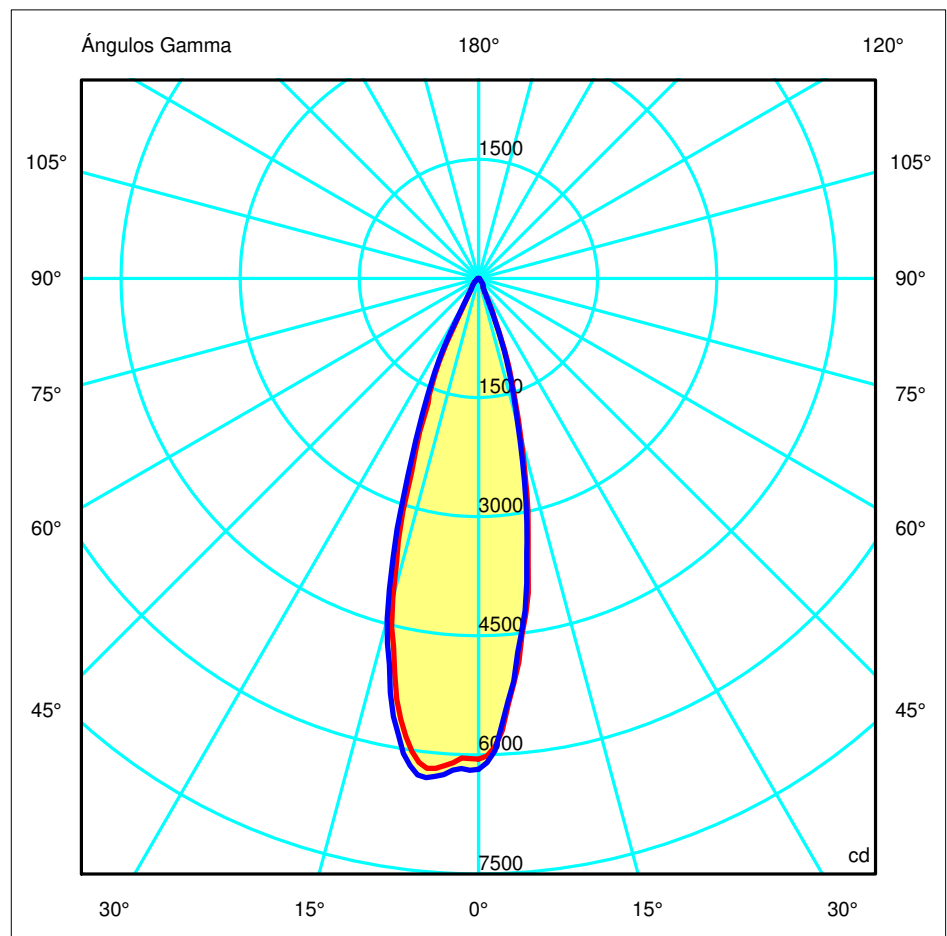
Line	Code LED	Luminaire Lamps Name LED - 7.15 W	Flux [lm] 891.09	Pow. [W] 7.15	Q.ty 2
C.I.E. F UTE	94 98 99 100 100 1.00 A	D DIN 5040 B NBN	A60 BZ 1		

179mm x 179mm



Semiplanos C
180.0 — 0.0
270.0 — 90.0

ULOR 0.00 %
DLOR 100.00 %
RN 0.00 %



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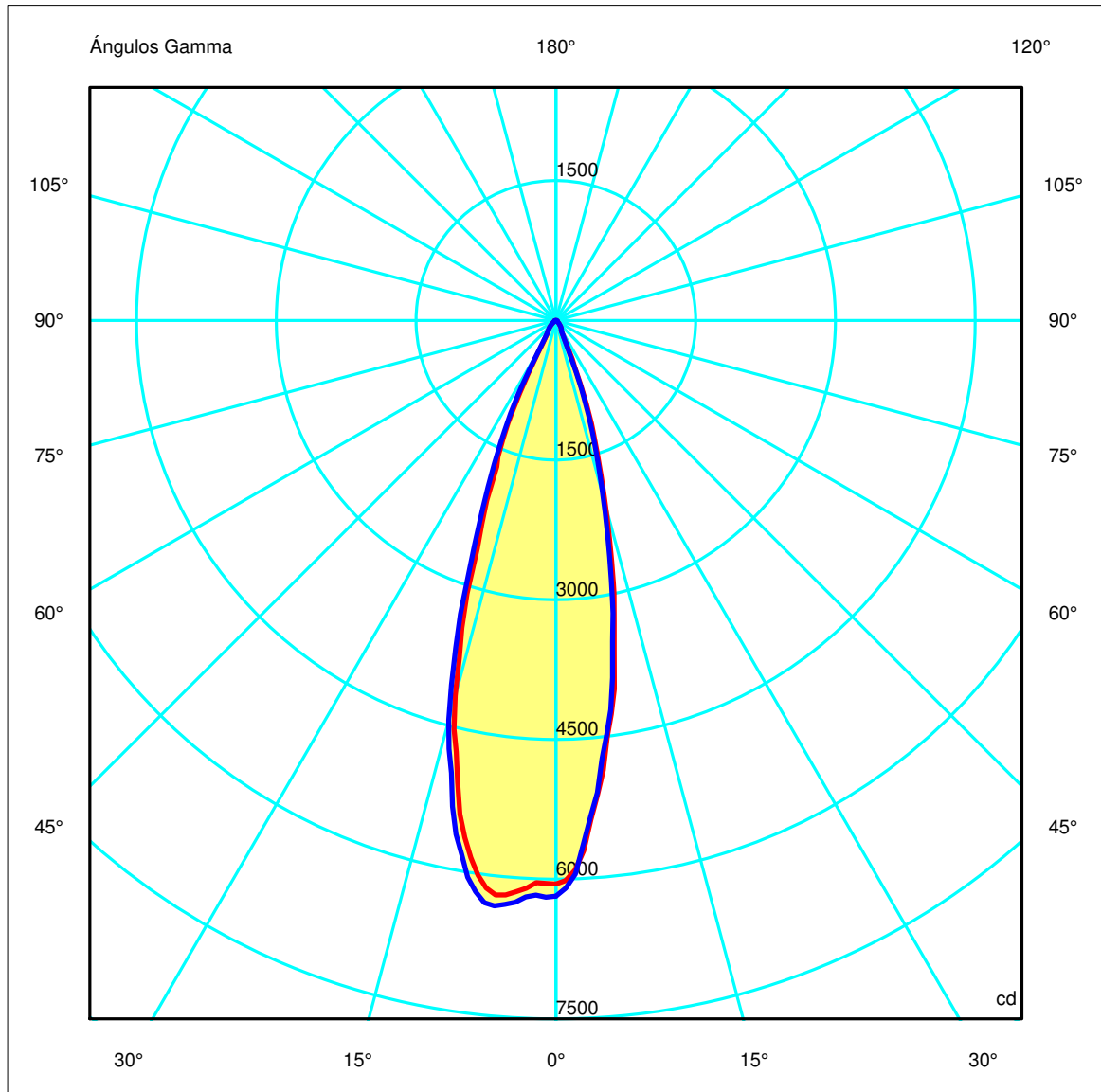
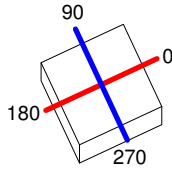
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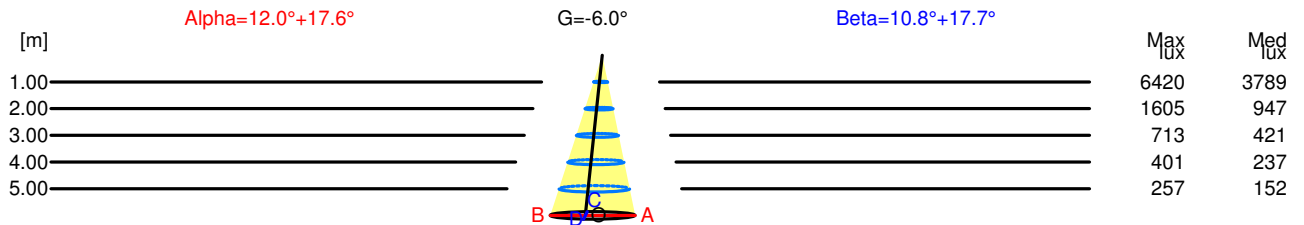
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Width at 50.00 % of Max Intensity

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	0.31	0.62	0.93	1.24	1.55	OC	0.19	0.38	0.58	0.77	0.96
OB	0.22	0.44	0.66	0.88	1.09	OD	0.32	0.64	0.96	1.28	1.60

	Luminous Intensities [cd]									
	0	5	15	25	35	45	55	65	75	85
OA	6052.26	5114.63	2050.92	184.56	95.16	40.28	15.64	15.64	10.92	10.49
OB	6052.26	6192.95	4172.62	1215.78	157.55	83.02	21.58	14.86	16.17	10.49
OC	6181.59	5090.16	1927.71	161.40	93.59	38.89	15.20	15.20	10.31	9.79
OD	6181.59	6294.32	4444.38	1298.54	161.84	85.46	21.58	14.33	15.55	9.87



H[m]	D[m]	Max lux	Med lux	Alpha=12.0°+17.6°	G=-6.0
1.00	0.53	6420	3789		
2.00	1.06	1605	947		
3.00	1.59	713	421		
4.00	2.12	401	237		
5.00	2.65	257	152		

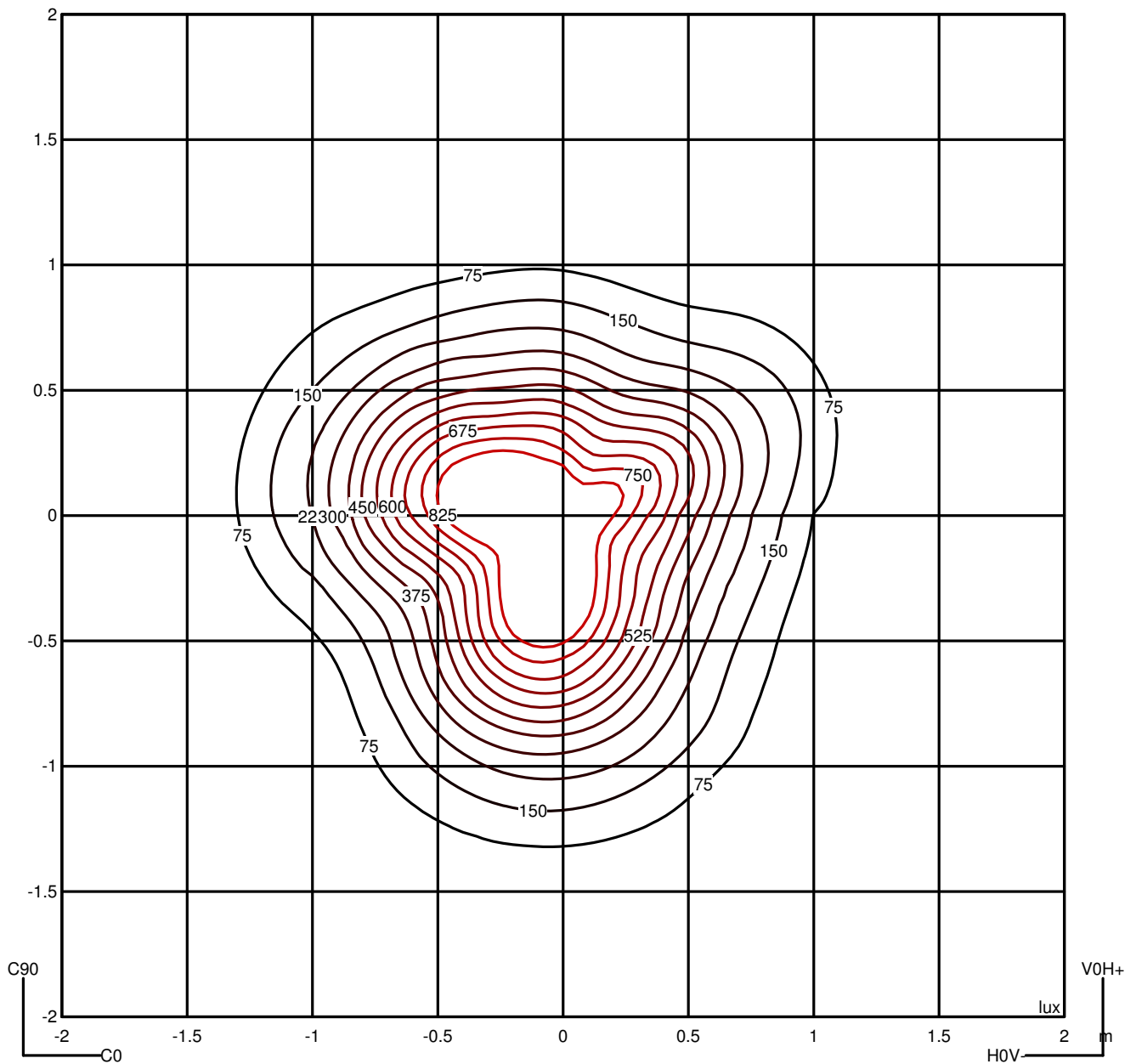
H[m]	D[m]	Max lux	Med lux	Beta=17.7°+10.8°	G=0.0
1.00	0.51	6420	3789		
2.00	1.02	1605	947		
3.00	1.54	713	421		
4.00	2.05	401	237		
5.00	2.56	257	152		

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Isolux (Floor)

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

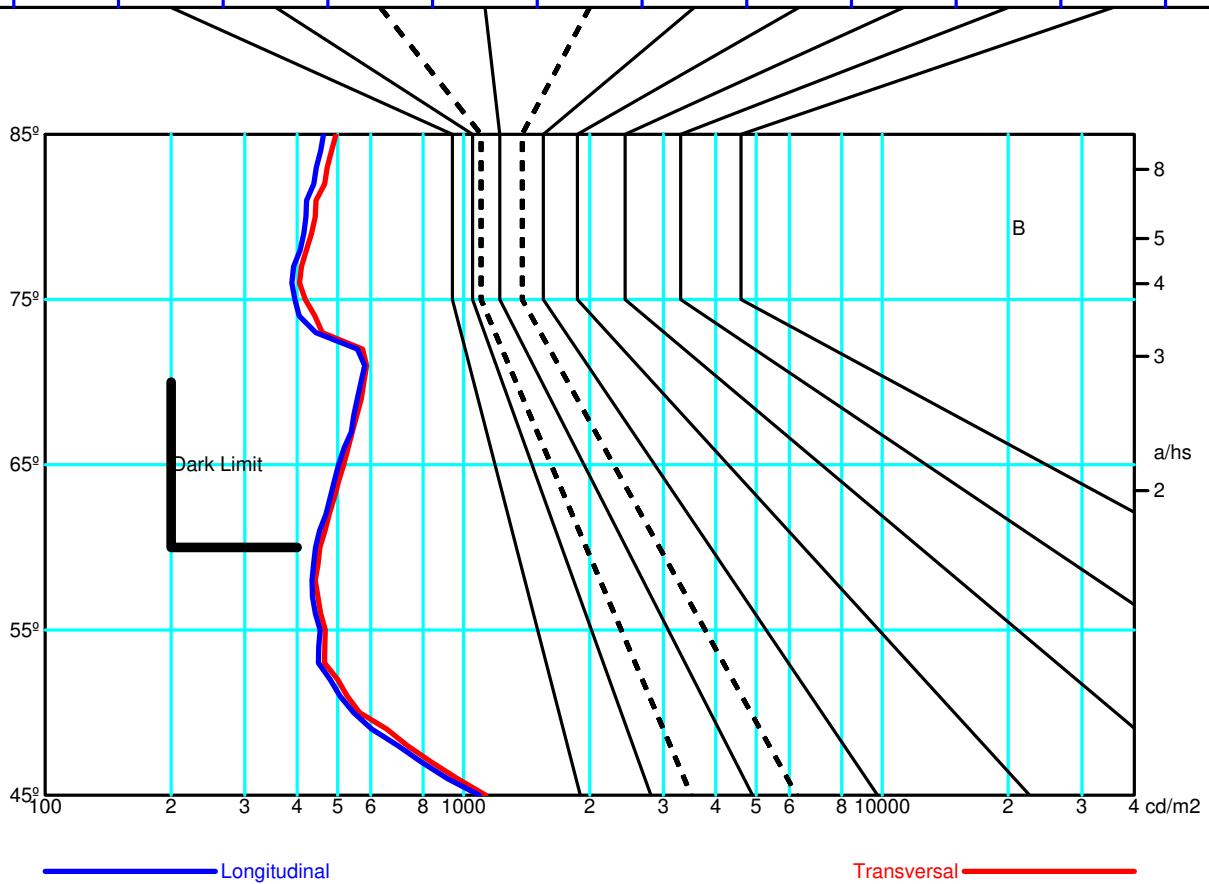


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		Average Luminance [cd/m ²]									
		45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°		1129	564	467	453	517	578	419	442	496	---
90.0°		1089	546	454	443	503	568	395	420	463	---

Flujo montado o vista transversal												
		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

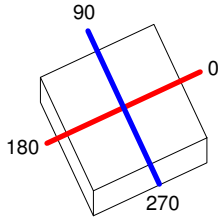
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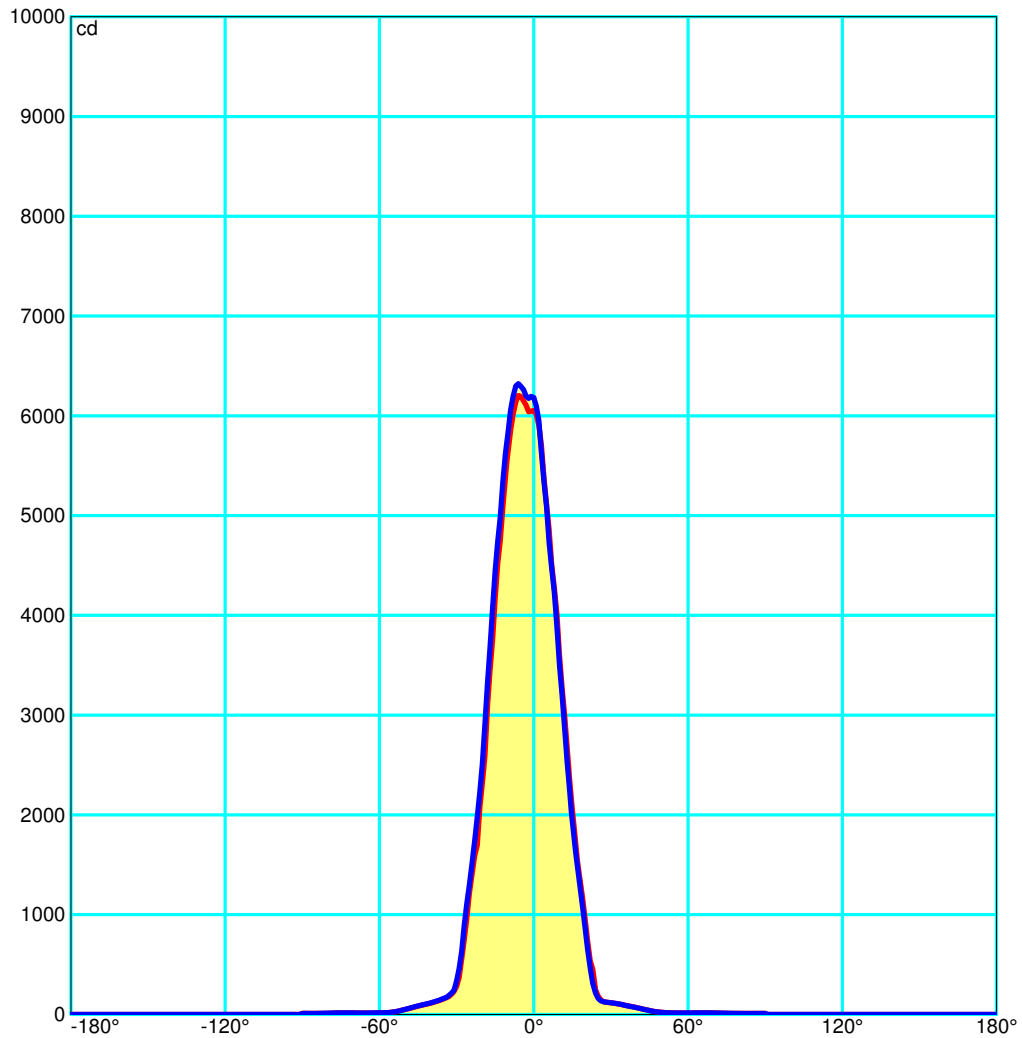
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179mm x 179mm



Semiplanos C

180.0 ————— 0.0
 270.0 ————— 90.0



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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	5.6	6.4	5.9	6.5	7.3	6.2	6.9	6.4	7.1	7.3
x=2H y=3H	6.2	6.8	6.5	7.1	7.7	6.6	7.3	6.9	7.5	7.7
x=2H y=4H	6.8	7.4	7.1	7.6	8.2	7.1	7.7	7.4	7.9	8.2
x=2H y=6H	7.3	7.9	7.6	8.1	8.7	7.6	8.1	7.9	8.4	8.7
x=2H y=8H	7.5	8.0	7.9	8.4	8.9	7.7	8.3	8.1	8.6	8.9
x=2H y=12H	7.8	8.3	8.1	8.6	9.1	8.0	8.5	8.3	8.8	9.1
x=4H y=2H	5.7	6.3	6.0	6.6	7.3	6.2	6.8	6.5	7.1	7.3
x=4H y=3H	6.5	7.0	6.8	7.3	8.0	6.9	7.4	7.2	7.7	8.0
x=4H y=4H	7.2	7.6	7.6	8.0	8.6	7.5	7.9	7.9	8.3	8.6
x=4H y=6H	7.9	8.3	8.3	8.7	9.3	8.1	8.5	8.6	8.9	9.3
x=4H y=8H	8.3	8.6	8.7	9.0	9.5	8.4	8.7	8.8	9.1	9.5
x=4H y=12H	8.6	8.9	9.0	9.3	9.8	8.7	9.0	9.2	9.4	9.8
x=8H y=4H	7.4	7.7	7.8	8.1	8.8	7.7	8.0	8.1	8.4	8.8
x=8H y=6H	8.2	8.5	8.7	8.9	9.5	8.4	8.7	8.9	9.1	9.5
x=8H y=8H	8.6	8.9	9.1	9.3	9.9	8.8	9.0	9.2	9.4	9.9
x=8H y=12H	9.2	9.3	9.6	9.8	10.4	9.2	9.4	9.7	9.9	10.4
x=12H y=4H	7.4	7.7	7.8	8.1	8.8	7.7	7.9	8.1	8.4	8.8
x=12H y=6H	8.3	8.5	8.7	8.9	9.6	8.5	8.7	8.9	9.1	9.6
x=12H y=8H	8.8	8.9	9.2	9.4	10.0	8.9	9.1	9.4	9.5	10.0



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Flujo Total=1782.18 Flujo Luminaria=1782.18

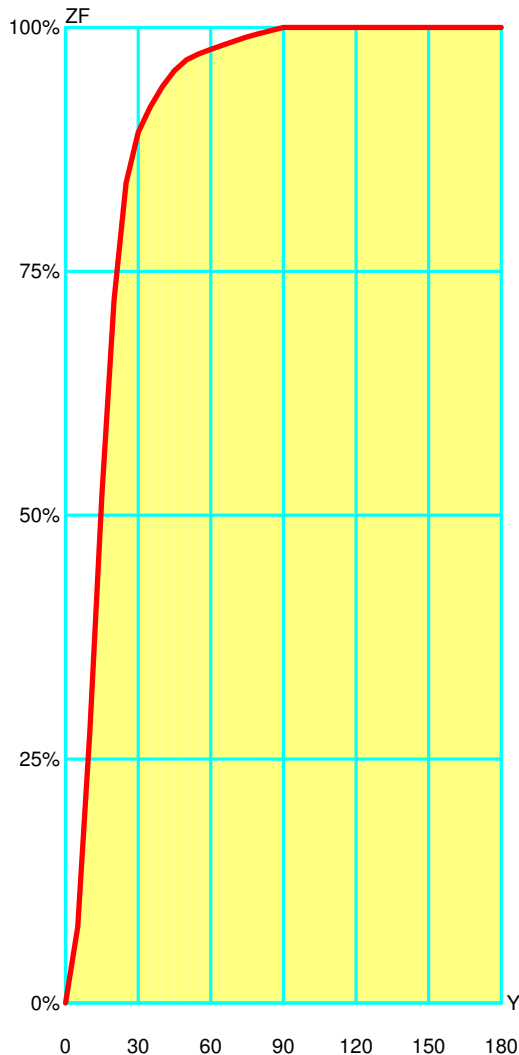
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.70	0.74	0.79	0.83	0.86	0.90	0.93	0.95	0.97	0.98	1.01	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

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)	279	721	893	939	967	978	986	994	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.
94 98 99 100 100

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



Gamma °	Flujo Zonal			
	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	78.01	78.01	7.80 %	7.80 %
10°	201.05	279.06	20.10 %	27.91 %
15°	241.61	520.67	24.16 %	52.07 %
20°	200.09	720.76	20.01 %	72.08 %
25°	119.71	840.46	11.97 %	84.05 %
30°	52.05	892.52	5.21 %	89.25 %
35°	25.87	918.39	2.59 %	91.84 %
40°	21.00	939.39	2.10 %	93.94 %
45°	16.46	955.85	1.65 %	95.59 %
50°	10.90	966.76	1.09 %	96.68 %
55°	6.17	972.93	0.62 %	97.29 %
60°	4.62	977.56	0.46 %	97.76 %
65°	4.28	981.84	0.43 %	98.18 %
70°	4.33	986.17	0.43 %	98.62 %
75°	4.15	990.32	0.42 %	99.03 %
80°	3.45	993.77	0.34 %	99.38 %
85°	3.12	996.89	0.31 %	99.69 %
90°	3.11	1000.00	0.31 %	100.00 %
95°	0.00	1000.00	0.00 %	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 %

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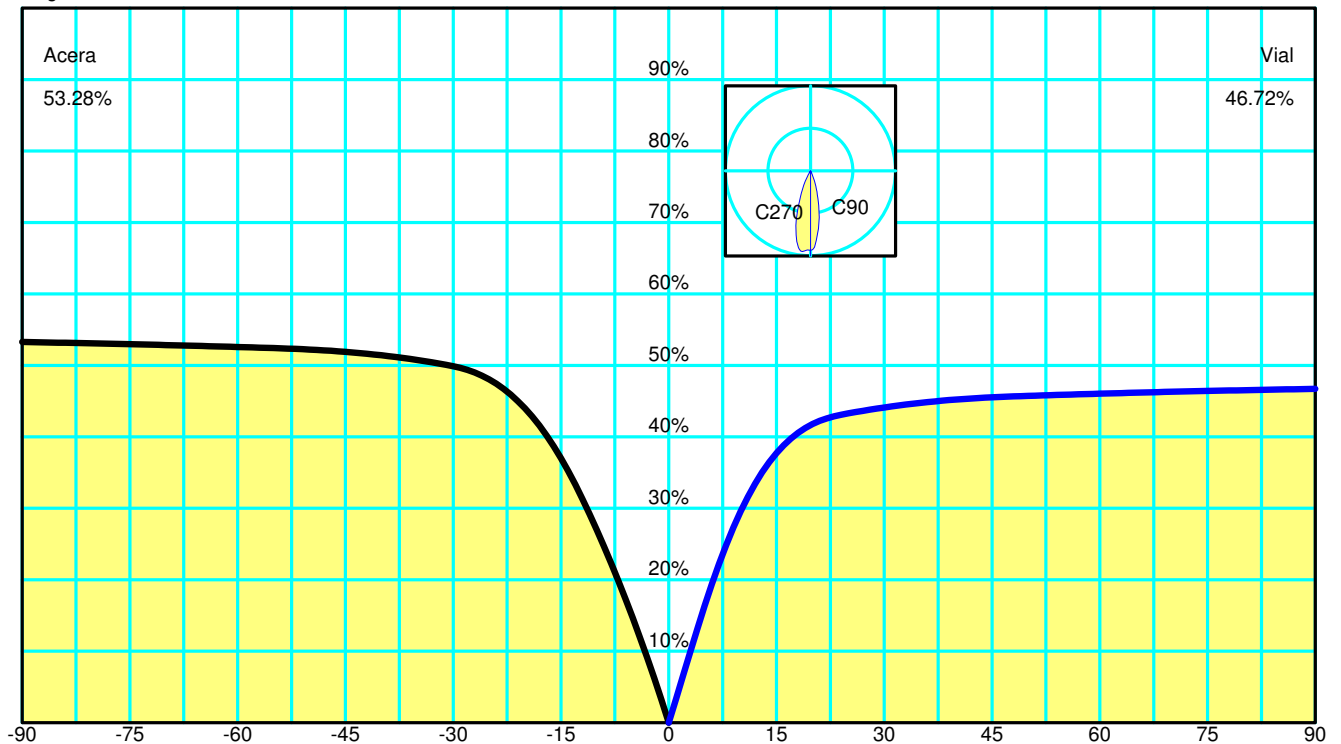
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Pavement			Road		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	14.63%	Piano	5	16.36%
Piano	-10	26.95%	Piano	10	29.56%
Piano	-15	36.99%	Piano	15	37.72%
Piano	-20	43.98%	Piano	20	41.79%
Piano	-25	48.04%	Piano	25	43.29%
Piano	-30	49.88%	Piano	30	44.11%
Piano	-35	50.76%	Piano	35	44.75%
Piano	-40	51.41%	Piano	40	45.22%
Piano	-45	51.89%	Piano	45	45.53%
Piano	-50	52.22%	Piano	50	45.73%
Piano	-55	52.42%	Piano	55	45.89%
Piano	-60	52.58%	Piano	60	46.04%
Piano	-65	52.71%	Piano	65	46.18%
Piano	-70	52.84%	Piano	70	46.31%
Piano	-75	52.97%	Piano	75	46.43%
Piano	-80	53.08%	Piano	80	46.52%
Piano	-85	53.18%	Piano	85	46.62%
Piano	-90	53.28%	Piano	90	46.72%

Ángulo de Inclinación = 0.0

DLOR = 100.00%



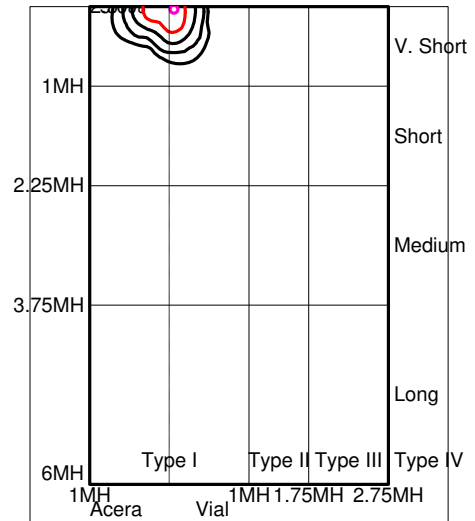
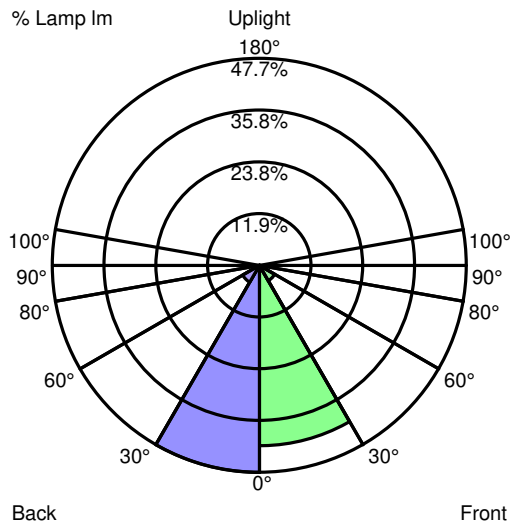
Spread	2.7° Estrecho	DLOR	100.00000 %
Throw	4.7° Corto	ULOR	0.00000 %
SLI (deslumbramiento)	Concentrado	Rendimiento	100.00000 %
Cutoff CIE	Cutoff - Max: C=240.0° Gamma=4.0°	RN	0.00000 %
Cutoff lesna	Cutoff	Clase de Intensidad Luminosa	G5
DIN5044	KB1	Índice de Deslumbramiento	D6

IESNA Type I Very Short Asymmetrical

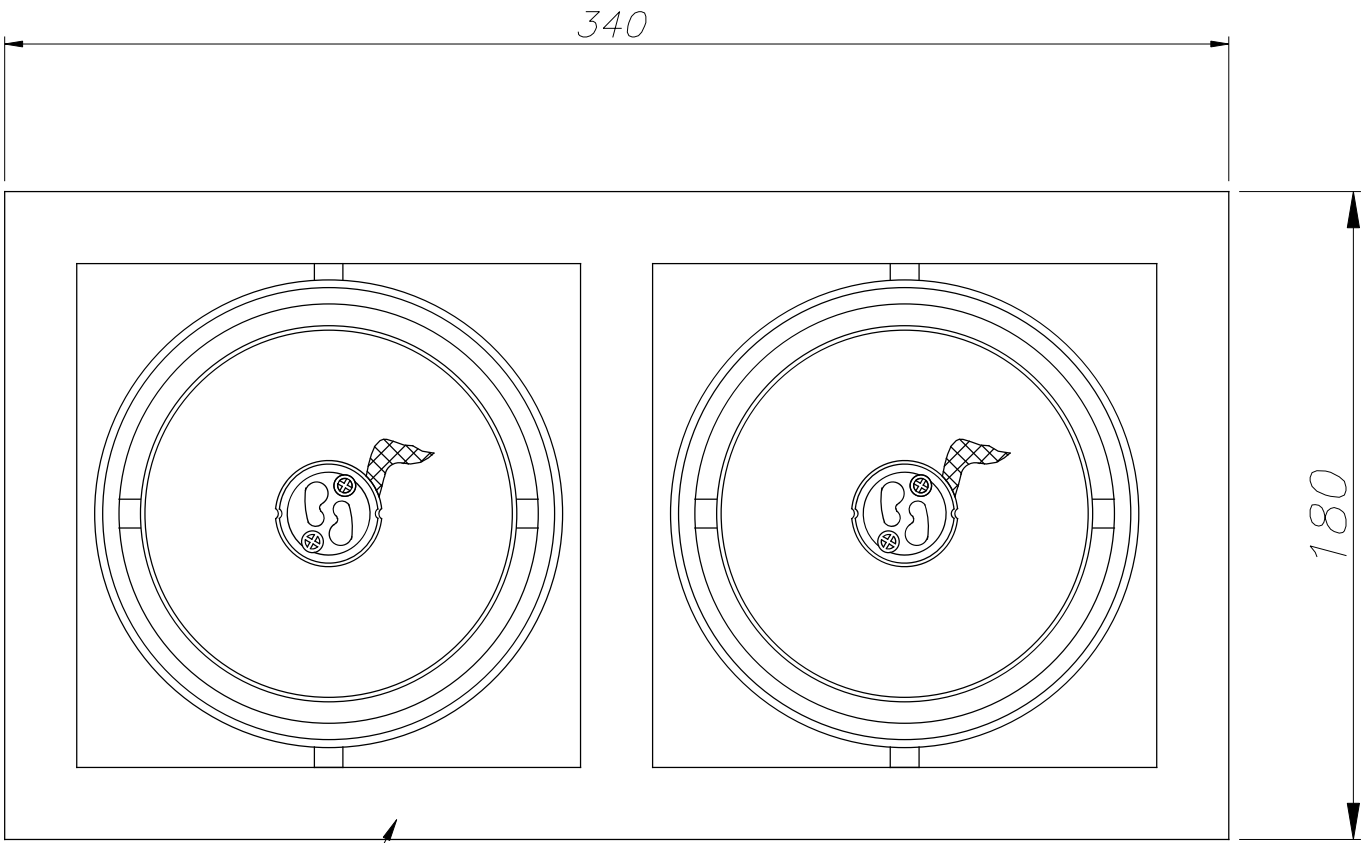
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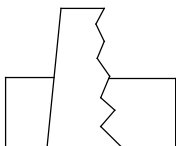
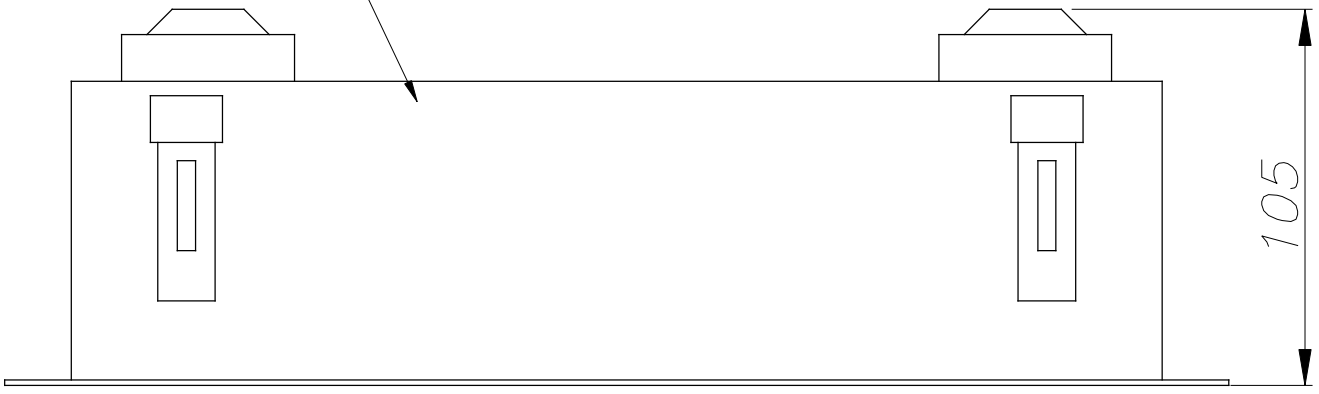
US ROAD STANDARDS



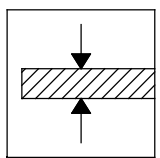
Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	740.4 lm	41.5 %	41.5 %
FM	30° -- 60°	72.4 lm	4.1 %	4.1 %
FH	60° -- 80°	14.3 lm	0.8 %	0.8 %
FVH	80° -- 90°	5.5 lm	0.3 %	0.3 %
BL	0° -- 30°	849.9 lm	47.7 %	47.7 %
BM	30° -- 60°	79.6 lm	4.5 %	4.5 %
BH	60° -- 80°	14.5 lm	0.8 %	0.8 %
BVH	80° -- 90°	5.6 lm	0.3 %	0.3 %
UL	90° -- 100°	0.0 lm	0.0 %	0.0 %
UH	100° -- 180°	0.0 lm	0.0 %	0.0 %
TOTALS		1782.2 lm	100.0 %	100.0 %
		BUG B2 U0 G0	Type I Very Short	Asymmetrical



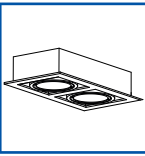
ACERO
STEEL



310x160



0-12mm



Cardan

TC-0172

FOR
LIGHT

