Luminaire

Code	3350320101UP804
Name	GarotaCatenary S/27/4L Outdoor - PANTALLA MARFIL
Line	Eulumdat

Measurem.

Code	CL092A19F010G(E2)
Name	GarotaCatenary S/27/4L Outdoor - PANTALLA MARFIL

Source Data

Code	LED	Correlated Color Temperature (CCT)	0K	Q.ty	1
Name	LED	Color rendering index (CRI)	0		
Line					

Measurement data

Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	02-12-2019	Maximum Gamma Angle	180°
Measurement Distance	0.00m	Measurement Flux	405.9 lm
Maximum	405.05 cd/klm	Position	C=0.0° G=0.0°

Electrical Parameters

Channel 1		Channel 2	
Voltage	0.00 V	Voltage	0.00 V
Current	0.00 A	Current	0.00 A
Power	23.51 W	Power	0.00 W
Frequency	0 Hz	Frequency	0 Hz
Power Factor	0.00	Power Factor	0.00

Environmental Parameters

Temperature	0.0 °C	Air Speed	0.0 m/s
Humidity	0.0 %		

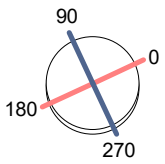
Luminaire Dimensions

Round Luminaire	Diam.	260 mm	Height	190 mm	
Round Luminous Area	Diam.	260 mm	Height	190 mm	
Horizontal Luminous Area	0.053093 m2		Emitting area on Plane 180°		0.049400 m2
Emitting area on Plane 0°	0.049400 m2		Emitting area on Plane 270°		0.049400 m2
Emitting area on Plane 90°	0.049400 m2		Glare area at 76°		0.060777 m2

Photometric Assessment

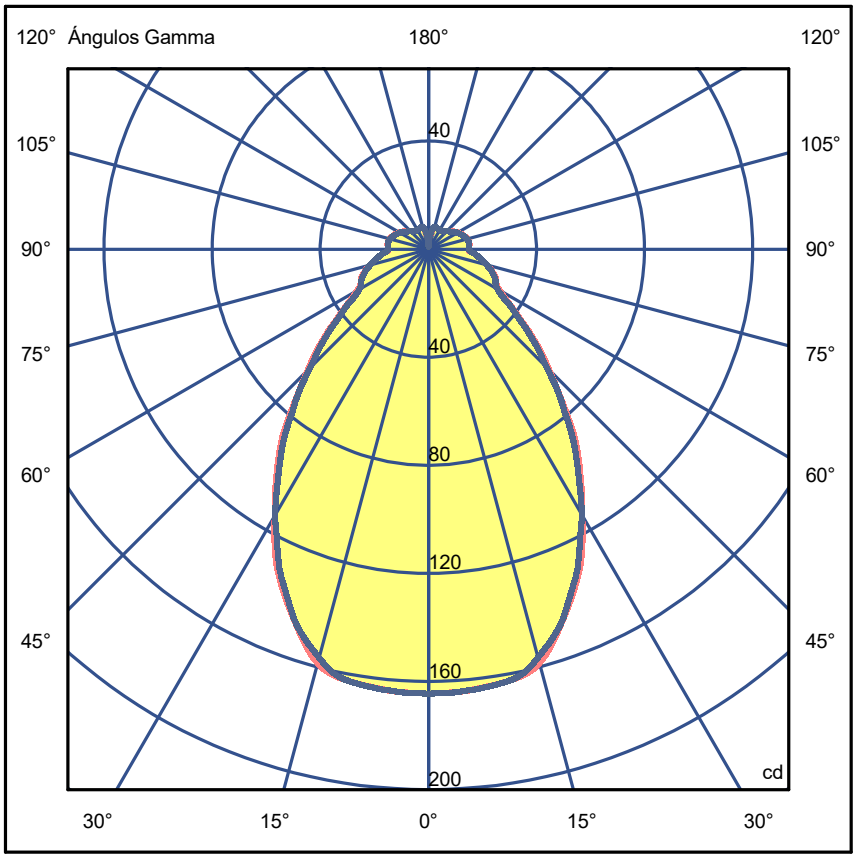
Luminaire Flux	405.9 lm	Source Flux	405.9 lm
Efficacy	17.264 lm/W	Efficiency	100.0 %
CIE Flux Codes	57 79 92 82 100	D DIN 5040	B41
F UTE	0.82 D + 0.18 T	B NBN	BZ 3 / 1 / BZ 4 / 3 / BZ 5

Diam=260mm





ULOR 18.37 %
DLOR 81.63 %
RN 18.37 %



Luminaire
Code 3350320101UP804
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Measurem.
Code CL092A19F010G(E2)
Name GarotaCatenary S/27/4L Outdoor - PANTALLA MARFIL

Luminaire Flux	406 lm	Luminaire Power	23.5 W	Efficacy	17.264 lm/W	Efficiency	100.00%
Source Flux	406 lm	Maximum value	164.40 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

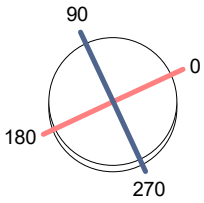
Luminous Intensity Table cd **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	164	164	164	164	164	164	164
G 2.5	164	164	164	164	164	164	164
G 5.0	164	164	164	164	164	164	164
G 7.5	163	163	163	163	163	163	163
G 10.0	163	163	162	163	162	162	163
G 12.5	162	161	161	161	161	161	161
G 15.0	159	157	157	157	157	157	156
G 17.5	153	152	152	152	152	152	151
G 20.0	146	147	146	146	144	145	145
G 22.5	139	139	139	139	138	138	138
G 25.0	132	130	131	130	131	131	130
G 27.5	123	123	123	123	123	122	121
G 30.0	114	115	114	114	113	114	114
G 32.5	106	106	106	105	104	105	104
G 35.0	97	97	97	97	96	96	96
G 37.5	89	88	88	88	88	88	88
G 40.0	80	80	80	80	79	79	78
G 42.5	71	72	71	71	70	71	71
G 45.0	63	64	64	63	62	62	62
G 47.5	57	56	56	55	56	55	55
G 50.0	50	49	49	49	49	48	49
G 52.5	43	43	43	43	43	42	42
G 55.0	38	38	38	38	37	37	37
G 57.5	34	34	34	33	33	32	32
G 60.0	30	30	30	29	30	29	29
G 62.5	28	28	28	28	28	28	28
G 65.0	28	27	27	27	27	27	27
G 67.5	27	26	26	26	26	26	26
G 70.0	25	25	25	25	25	25	25
G 72.5	24	24	24	23	24	24	24
G 75.0	22	22	22	22	22	22	22
G 77.5	21	21	21	21	21	21	21
G 80.0	20	19	20	19	19	19	19
G 82.5	18	18	18	18	18	18	18
G 85.0	17	16	17	16	17	16	17
G 87.5	15	15	15	15	15	15	15
G 90.0	15	15	15	15	15	15	15
G 92.5	15	15	15	15	15	15	15
G 95.0	15	15	15	15	15	15	15
G 97.5	15	15	15	15	15	15	15
G100.0	15	15	15	15	15	15	15
G102.5	15	15	15	15	15	15	15
G105.0	15	15	15	15	15	15	15
G107.5	15	15	15	15	14	14	14
G110.0	14	14	14	14	14	14	14
G112.5	14	14	14	14	14	14	14
G115.0	13	13	13	13	13	13	13
G117.5	13	13	13	13	13	13	13
G120.0	12	12	12	12	12	12	12
G122.5	12	12	12	12	12	12	12
G125.0	11	11	11	11	11	11	11
G127.5	11	11	11	11	11	11	11
G130.0	10	10	10	10	10	10	10
G132.5	10	10	10	10	10	10	10
G135.0	9	9	9	9	9	9	9
G137.5	9	9	9	9	9	9	9
G140.0	9	9	9	9	9	9	9
G142.5	9	8	8	8	8	8	8
G145.0	8	8	8	8	8	8	8
G147.5	8	8	8	8	8	8	8
G150.0	8	8	8	8	8	8	8
G152.5	8	8	8	8	8	8	8
G155.0	8	8	8	8	8	8	8
G157.5	8	8	8	8	8	8	9
G160.0	8	8	8	8	9	9	9
G162.5	8	8	8	8	9	9	9
G165.0	8	8	8	8	8	9	9
G167.5	8	8	7	7	8	8	8
G170.0	7	7	6	7	7	7	7
G172.5	5	5	5	5	5	6	6
G175.0	4	4	4	4	4	4	4
G177.5	2	2	2	2	2	2	2
G180.0	1	1	1	1	1	1	1

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Name GarotaCatenary S/27/4L Outdoor - PANTALLA MARFIL

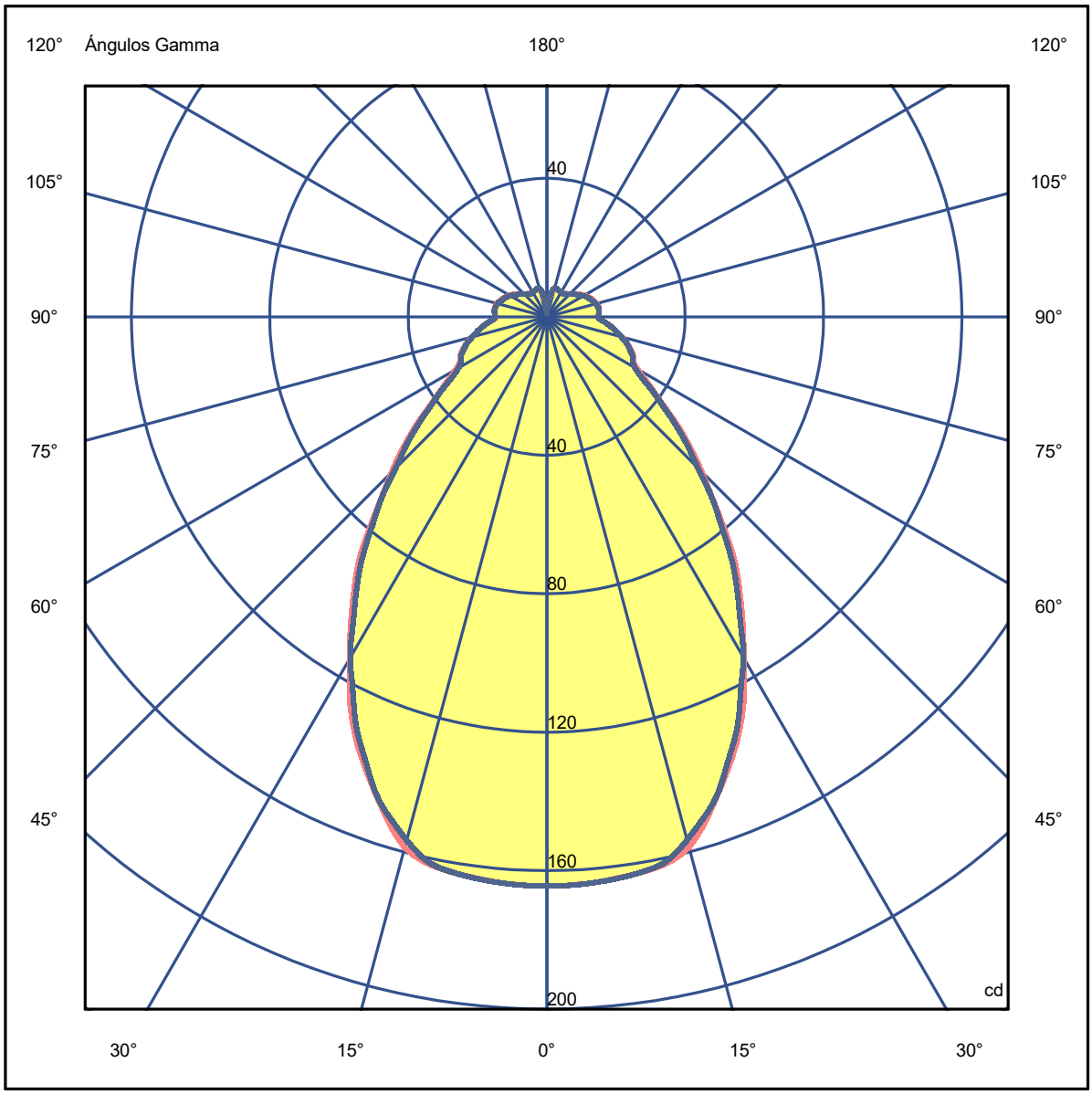
Luminaire Flux	406 lm	Luminaire Power	23.5 W	Efficacy	17.264 lm/W	Efficiency	100.00%
Source Flux	406 lm	Maximum value	164.40 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=260mm



Semiplanos C





Luminaire
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Name GarotaCatenary S/27/4L Outdoor - PANTALLA MARFIL

Luminaire Flux	406 lm	Luminaire Power	23.5 W	Efficacy	17.264 lm/W	Efficiency	100.00%
Source Flux	406 lm	Maximum value	164.40 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
Working Plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions	Lateral View					Viewed Endwise				
x=2H y=2H	8.6	9.6	9.1	10.1	10.7	8.5	9.5	9.0	10.0	10.6
x=2H y=3H	9.8	10.7	10.3	11.2	11.9	9.7	10.6	10.2	11.1	11.8
x=2H y=4H	10.4	11.3	11.0	11.9	12.5	10.4	11.2	10.9	11.8	12.4
x=2H y=6H	11.1	11.9	11.7	12.5	13.2	11.0	11.8	11.6	12.4	13.1
x=2H y=8H	11.4	12.2	12.0	12.8	13.5	11.3	12.1	11.9	12.7	13.4
x=2H y=12H	11.7	12.4	12.3	13.0	13.7	11.6	12.4	12.3	13.0	13.7
x=4H y=2H	8.9	9.8	9.5	10.3	11.0	8.8	9.7	9.4	10.2	10.9
x=4H y=3H	10.4	11.1	11.0	11.8	12.4	10.3	11.1	10.9	11.7	12.4
x=4H y=4H	11.2	11.9	11.9	12.5	13.3	11.2	11.8	11.8	12.5	13.2
x=4H y=6H	12.1	12.7	12.8	13.3	14.1	12.0	12.6	12.7	13.3	14.0
x=4H y=8H	12.5	13.0	13.2	13.7	14.5	12.4	13.0	13.1	13.7	14.4
x=4H y=12H	12.9	13.4	13.6	14.0	14.8	12.8	13.3	13.5	14.0	14.8
x=8H y=4H	11.6	12.1	12.2	12.8	13.5	11.5	12.0	12.2	12.7	13.5
x=8H y=6H	12.6	13.1	13.3	13.8	14.6	12.6	13.0	13.3	13.7	14.5
x=8H y=8H	13.1	13.5	13.9	14.3	15.1	13.1	13.5	13.8	14.2	15.1
x=8H y=12H	13.7	14.0	14.4	14.7	15.6	13.6	14.0	14.4	14.7	15.6
x=12H y=4H	11.6	12.1	12.3	12.8	13.6	11.5	12.0	12.2	12.7	13.5
x=12H y=6H	12.7	13.1	13.5	13.8	14.7	12.7	13.1	13.4	13.8	14.6
x=12H y=8H	13.3	13.7	14.1	14.4	15.3	13.3	13.6	14.0	14.4	15.2

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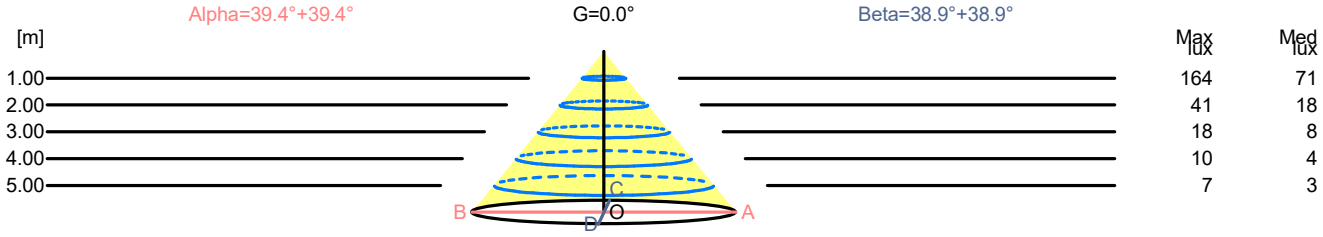
Luminaire Flux	406 lm	Luminaire Power	23.5 W	Efficacy	17.264 lm/W	Efficiency	100.00%
Source Flux	406 lm	Maximum value	164.40 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	0.82	1.64	2.46	3.28	4.10	OC	0.81	1.61	2.42	3.23	4.04
OB	0.82	1.64	2.46	3.28	4.10	OD	0.81	1.61	2.42	3.23	4.04

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	164.40	163.94	158.63	131.76	97.28	63.31	37.74	27.62	22.46	16.64
OB	164.40	163.94	158.63	131.76	97.28	63.31	37.74	27.62	22.46	16.64
OC	164.40	163.93	156.45	130.46	95.80	61.84	37.31	27.41	22.27	16.72
OD	164.40	163.93	156.45	130.46	95.80	61.84	37.31	27.41	22.27	16.72



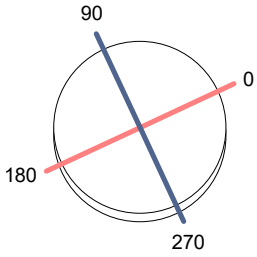
H[m]	D[m]	Max lux	Med lux	Alpha=39.4°+39.4° G=0.0
1.00	1.64	164	71	
2.00	3.28	41	18	
3.00	4.92	18	8	
4.00	6.56	10	4	
5.00	8.21	7	3	

H[m]	D[m]	Max lux	Med lux	Beta=38.9°+38.9° G=0.0
1.00	1.61	164	71	
2.00	3.23	41	18	
3.00	4.84	18	8	
4.00	6.46	10	4	
5.00	8.07	7	3	

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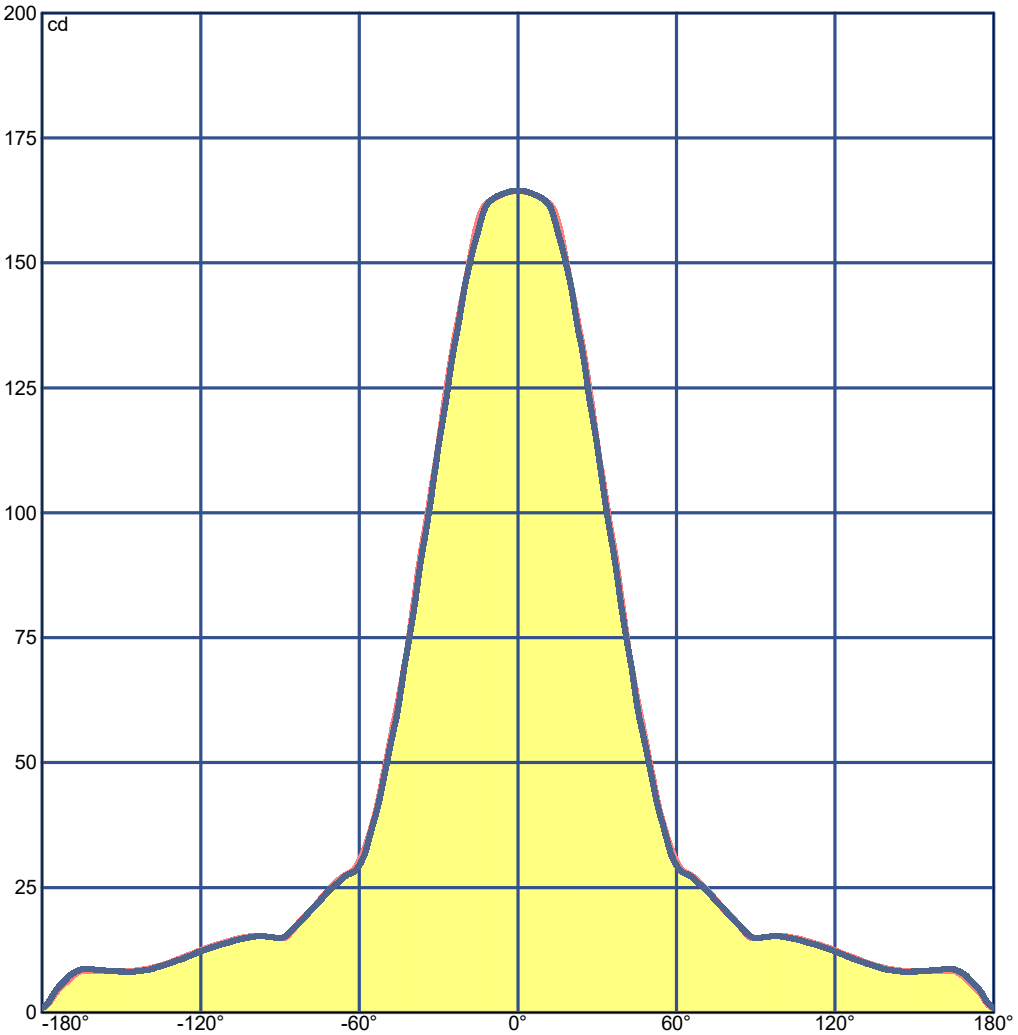
Luminaire Flux	406 lm	Luminaire Power	23.5 W	Efficacy	17.264 lm/W	Efficiency	100.00%
Source Flux	406 lm	Maximum value	164.40 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=260mm



Semiplanos C





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Source Flux	406 lm	Maximum value	164.40 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Flujo Total=405.87 Flujo Luminaria=405.87

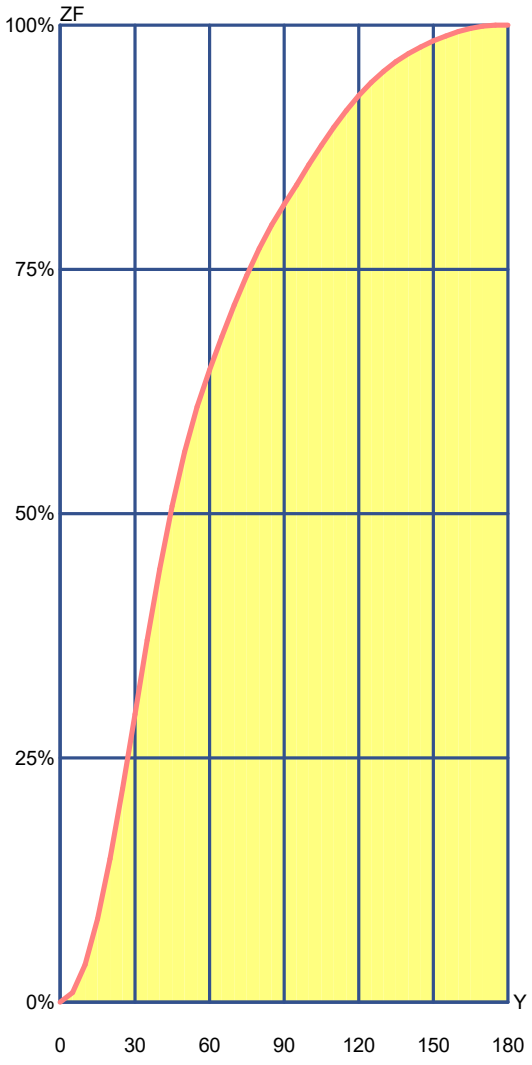
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.39	0.46	0.52	0.58	0.63	0.70	0.75	0.78	0.83	0.85	0.92	0.95
RC	4	4	4	4	4	4	4	5	5	5	6	6

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)	38	147	294	443	563	647	713	771	816	857	895	928	953	971	984	993	999	1000

Códigos de Flujo C.I.E.
57 79 92 82 100

C.I.E.	4/4/4/4/4/4/4/5/5/5/6/6	LOR	100.00000 %
D DIN 5040	B41	ULOR	18.36698 %
F UTE	0.82 D + 0.18 T	DLOR	81.63302 %
B NBN	BZ 3 / 1 / BZ 4 / 3 / BZ 5	UFF	18.36698 %
RN	18.36698 %	DFF	81.63302 %
BLF	1.0	FFR	22.49944 %



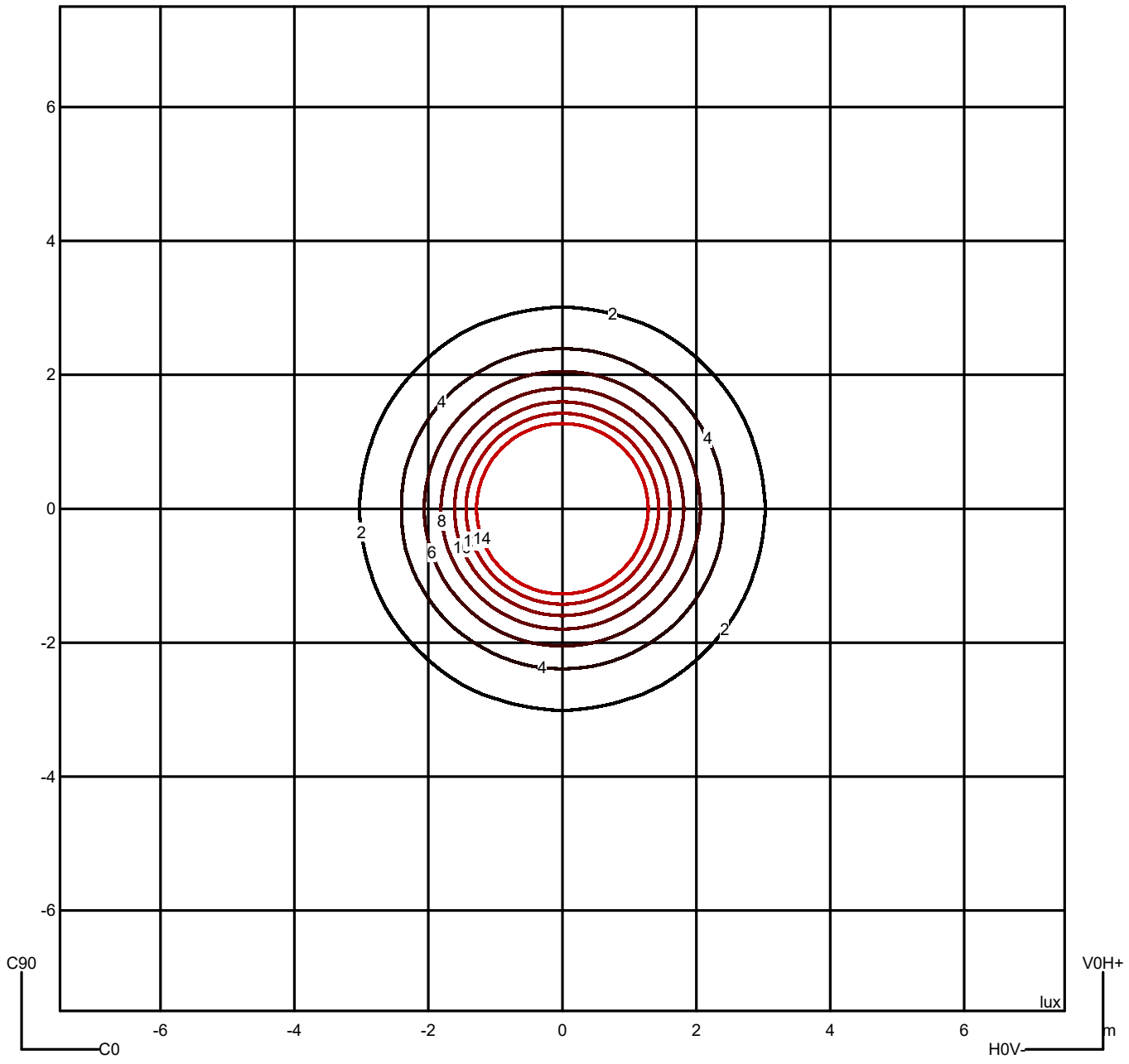
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	9.67	9.67	0.97 %	0.97 %
10°	28.77	38.44	2.88 %	3.84 %
15°	46.84	85.28	4.68 %	8.53 %
20°	61.52	146.80	6.15 %	14.68 %
25°	71.33	218.13	7.13 %	21.81 %
30°	76.26	294.39	7.63 %	29.44 %
35°	76.27	370.66	7.63 %	37.07 %
40°	72.29	442.94	7.23 %	44.29 %
45°	64.79	507.74	6.48 %	50.77 %
50°	55.51	563.24	5.55 %	56.32 %
55°	46.00	609.24	4.60 %	60.92 %
60°	37.88	647.12	3.79 %	64.71 %
65°	33.77	680.89	3.38 %	68.09 %
70°	32.53	713.42	3.25 %	71.34 %
75°	30.40	743.82	3.04 %	74.38 %
80°	27.47	771.29	2.75 %	77.13 %
85°	24.14	795.44	2.41 %	79.54 %
90°	20.90	816.33	2.09 %	81.63 %
95°	20.25	836.58	2.03 %	83.66 %
100°	20.36	856.94	2.04 %	85.69 %
105°	19.82	876.76	1.98 %	87.68 %
110°	18.67	895.43	1.87 %	89.54 %
115°	17.12	912.55	1.71 %	91.25 %
120°	15.36	927.91	1.54 %	92.79 %
125°	13.45	941.37	1.35 %	94.14 %
130°	11.53	952.89	1.15 %	95.29 %
135°	9.74	962.63	0.97 %	96.26 %
140°	8.18	970.81	0.82 %	97.08 %
145°	6.94	977.75	0.69 %	97.78 %
150°	5.97	983.73	0.60 %	98.37 %
155°	5.16	988.89	0.52 %	98.89 %
160°	4.35	993.25	0.44 %	99.32 %
165°	3.42	996.67	0.34 %	99.67 %
170°	2.22	998.89	0.22 %	99.89 %
175°	0.96	999.85	0.10 %	99.99 %
180°	0.15	1000.00	0.01 %	100.00 %

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Luminaire Flux	406 lm	Luminaire Power	23.5 W	Efficacy	17.264 lm/W	Efficiency	100.00%
Source Flux	406 lm	Maximum value	164.40 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

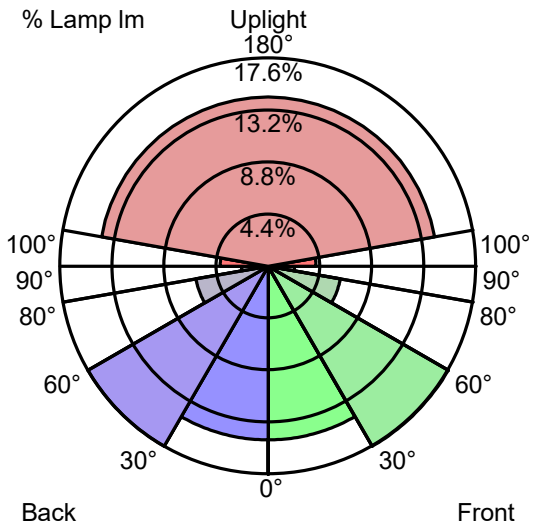
Luminaire position X=0.00m Y=0.00m Z=2.50m

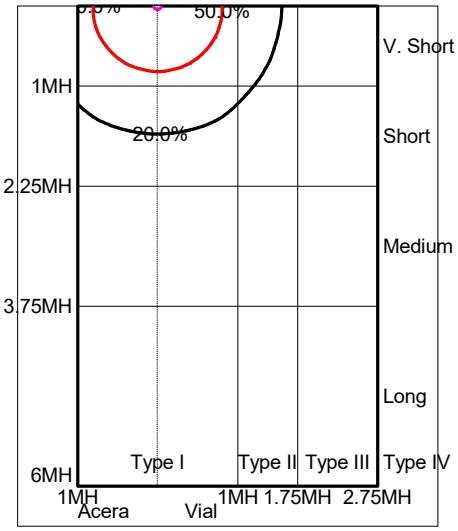


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Source Flux	406 lm	Maximum value	164.40 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

US ROAD STANDARDS





Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	59.8 lm	14.7 %	14.7 %
FM	30° -- 60°	71.6 lm	17.6 %	17.6 %
FH	60° -- 80°	25.2 lm	6.2 %	6.2 %
FVH	80° -- 90°	9.1 lm	2.2 %	2.2 %
BL	0° -- 30°	59.8 lm	14.7 %	14.7 %
BM	30° -- 60°	71.6 lm	17.6 %	17.6 %
BH	60° -- 80°	25.2 lm	6.2 %	6.2 %
BVH	80° -- 90°	9.1 lm	2.2 %	2.2 %
UL	90° -- 100°	16.5 lm	4.1 %	4.1 %
UH	100° -- 180°	58.1 lm	14.3 %	14.3 %
TOTALS		405.9 lm	100.0 %	100.0 %
BUG B0 U3 G0		Type V Very Short	Quadrilateral Symmetry	