Luminaire

Code	3350320101U/P803
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	675.0 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

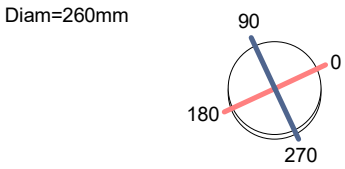
Temperature	0.0 °C	Air Speed	0.0 m/s
Humidity	0.0 %		

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	

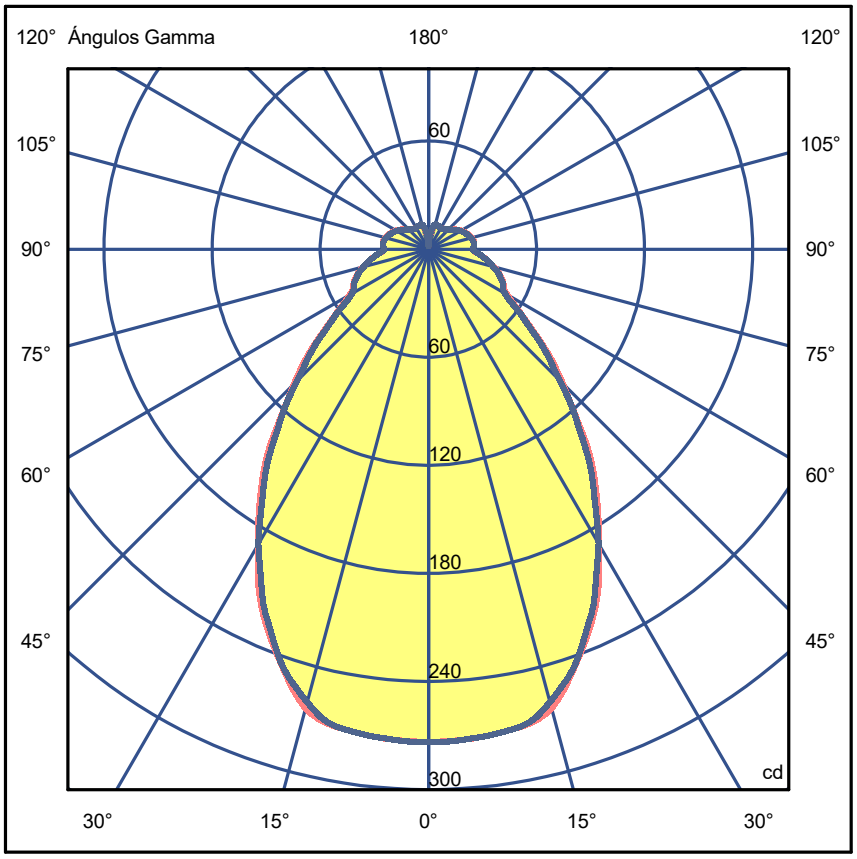
Photometric Assessment

Luminaire Flux	675.0 lm	Source Flux	675.0 lm
Efficacy	28.713 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





ULOR 18.37 %
DLOR 81.63 %
RN 18.37 %



Luminaire
Code 3350320101U/P803
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Measurem.
Code CL092A19F010G(E2)
Name GarotaCatenary S/27/4L Outdoor - PANTALLA MARFIL

Luminaire Flux	675 lm	Luminaire Power	23.5 W	Efficacy	28.713 lm/W	Efficiency	100.00%
Source Flux	675 lm	Maximum value	273.43 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

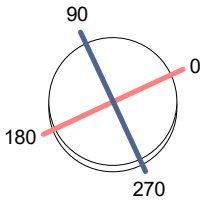
Luminous Intensity Table cd **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	273	273	273	273	273	273	273
G 2.5	273	273	273	273	273	273	273
G 5.0	273	273	272	273	273	273	273
G 7.5	272	272	272	272	271	272	272
G 10.0	271	271	270	270	270	270	270
G 12.5	269	267	267	267	267	267	268
G 15.0	264	262	262	262	262	261	260
G 17.5	254	254	252	253	253	252	252
G 20.0	242	244	242	242	240	241	242
G 22.5	231	231	231	231	229	229	229
G 25.0	219	217	217	217	217	217	217
G 27.5	205	204	205	204	204	203	202
G 30.0	189	191	189	190	189	189	189
G 32.5	176	177	176	175	174	174	173
G 35.0	162	162	162	161	160	160	159
G 37.5	149	146	146	146	147	146	146
G 40.0	133	133	133	133	132	132	130
G 42.5	117	120	118	119	117	117	117
G 45.0	105	106	106	105	104	103	103
G 47.5	94	93	93	92	92	92	92
G 50.0	83	81	82	81	82	80	81
G 52.5	72	72	72	71	71	70	70
G 55.0	63	63	63	62	61	61	62
G 57.5	56	56	56	55	54	54	54
G 60.0	50	50	50	49	49	49	49
G 62.5	47	47	47	46	47	46	47
G 65.0	46	45	45	45	45	45	46
G 67.5	44	44	44	43	43	43	44
G 70.0	42	42	42	41	41	41	42
G 72.5	40	39	39	39	39	39	40
G 75.0	37	37	37	37	37	37	37
G 77.5	35	35	35	34	34	35	35
G 80.0	33	32	33	32	32	32	32
G 82.5	30	30	30	30	30	30	30
G 85.0	28	27	28	27	28	27	28
G 87.5	25	25	26	25	26	25	26
G 90.0	25	25	25	25	25	25	25
G 92.5	25	25	25	25	25	25	25
G 95.0	25	25	25	25	25	25	25
G 97.5	25	25	25	25	25	25	25
G100.0	25	25	25	25	25	25	25
G102.5	25	25	25	25	25	25	25
G105.0	25	25	25	25	25	25	24
G107.5	24	24	24	24	24	24	24
G110.0	24	24	23	24	23	23	23
G112.5	23	23	23	23	23	23	23
G115.0	22	22	22	22	22	22	22
G117.5	22	21	21	21	21	21	21
G120.0	21	21	21	20	21	20	20
G122.5	20	20	20	20	20	20	19
G125.0	19	19	19	19	19	19	19
G127.5	18	18	18	18	18	18	18
G130.0	17	17	17	17	17	17	17
G132.5	16	16	16	16	16	16	16
G135.0	16	16	16	16	15	15	15
G137.5	15	15	15	15	15	15	15
G140.0	15	14	14	14	14	14	14
G142.5	14	14	14	14	14	14	14
G145.0	14	14	14	14	14	14	14
G147.5	14	14	14	14	14	14	14
G150.0	14	14	14	14	14	14	14
G152.5	14	14	14	14	14	14	14
G155.0	14	14	14	14	14	14	14
G157.5	14	14	14	14	14	14	14
G160.0	14	14	14	14	14	14	14
G162.5	14	14	14	14	14	15	14
G165.0	14	14	13	13	14	14	14
G167.5	13	13	12	12	13	13	13
G170.0	11	11	10	11	11	12	12
G172.5	9	9	9	9	9	10	10
G175.0	6	6	6	6	7	7	7
G177.5	3	3	3	3	3	3	4
G180.0	1	1	1	1	1	1	1

Luminaire
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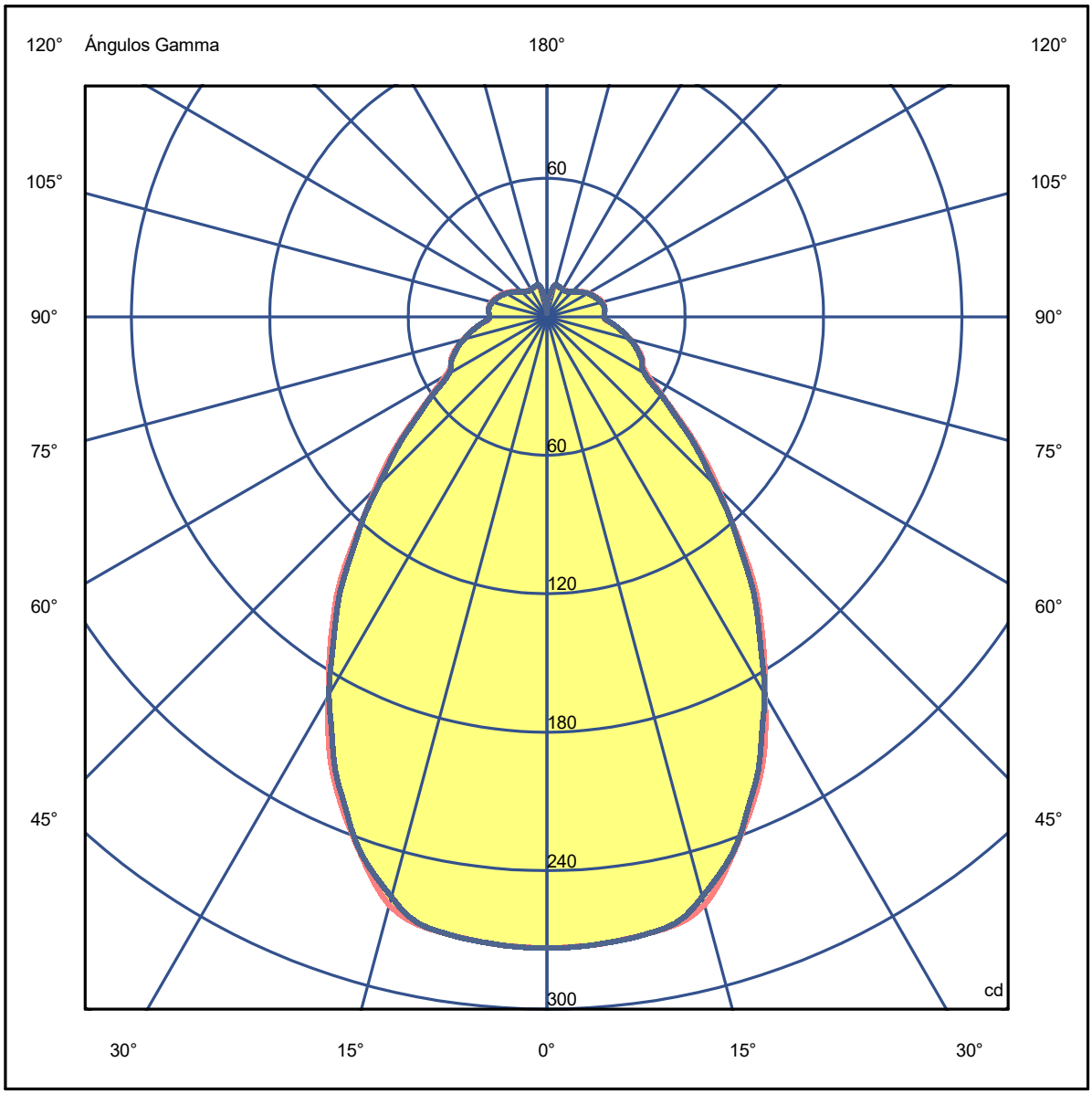
Luminaire Flux	675 lm	Luminaire Power	23.5 W	Efficacy	28.713 lm/W	Efficiency	100.00%
Source Flux	675 lm	Maximum value	273.43 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=260mm



Semiplanos C





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

Luminaire Flux	675 lm	Luminaire Power	23.5 W	Efficacy	28.713 lm/W	Efficiency	100.00%
Source Flux	675 lm	Maximum value	273.43 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	10.3	11.4	10.9	11.9	12.4	10.2	11.2	10.8	11.7	12.3
x=2H y=3H	11.5	12.5	12.1	13.0	13.6	11.4	12.4	12.0	12.9	13.5
x=2H y=4H	12.2	13.1	12.8	13.6	14.3	12.1	13.0	12.7	13.6	14.2
x=2H y=6H	12.9	13.7	13.5	14.3	14.9	12.8	13.6	13.4	14.2	14.9
x=2H y=8H	13.2	13.9	13.8	14.5	15.2	13.1	13.9	13.7	14.5	15.2
x=2H y=12H	13.5	14.2	14.1	14.8	15.5	13.4	14.1	14.0	14.8	15.4
x=4H y=2H	10.7	11.5	11.3	12.1	12.8	10.6	11.4	11.2	12.0	12.7
x=4H y=3H	12.2	12.9	12.8	13.5	14.2	12.1	12.8	12.7	13.4	14.1
x=4H y=4H	13.0	13.7	13.7	14.3	15.0	13.0	13.6	13.6	14.2	15.0
x=4H y=6H	13.9	14.4	14.5	15.1	15.9	13.8	14.4	14.5	15.1	15.8
x=4H y=8H	14.3	14.8	14.9	15.5	16.2	14.2	14.7	14.9	15.4	16.2
x=4H y=12H	14.6	15.1	15.3	15.8	16.6	14.6	15.1	15.3	15.8	16.6
x=8H y=4H	13.3	13.9	14.0	14.5	15.3	13.3	13.8	14.0	14.5	15.3
x=8H y=6H	14.4	14.8	15.1	15.5	16.3	14.3	14.8	15.1	15.5	16.3
x=8H y=8H	14.9	15.3	15.7	16.0	16.9	14.9	15.3	15.6	16.0	16.8
x=8H y=12H	15.4	15.8	16.2	16.5	17.4	15.4	15.8	16.2	16.5	17.4
x=12H y=4H	13.4	13.8	14.1	14.5	15.3	13.3	13.8	14.0	14.5	15.3
x=12H y=6H	14.5	14.9	15.2	15.6	16.4	14.4	14.8	15.2	15.6	16.4
x=12H y=8H	15.1	15.4	15.8	16.2	17.0	15.1	15.4	15.8	16.1	17.0

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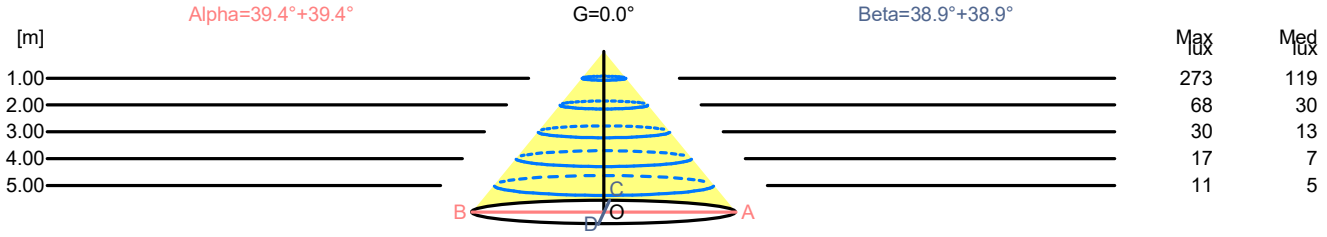
Luminaire Flux	675 lm	Luminaire Power	23.5 W	Efficacy	28.713 lm/W	Efficiency	100.00%
Source Flux	675 lm	Maximum value	273.43 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	273.43	272.67	263.83	219.14	161.80	105.29	62.77	45.93	37.36	27.68
OB	273.43	272.67	263.83	219.14	161.80	105.29	62.77	45.93	37.36	27.68
OC	273.43	272.64	260.20	216.97	159.33	102.85	62.05	45.59	37.04	27.81
OD	273.43	272.64	260.20	216.97	159.33	102.85	62.05	45.59	37.04	27.81



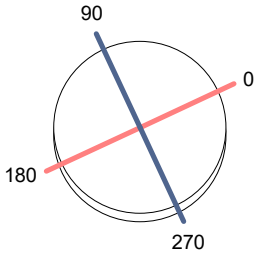
H[m]	D[m]	Max lux	Med lux	Alpha=39.4°+39.4° G=0.0
1.00	1.64	273	119	
2.00	3.28	68	30	
3.00	4.92	30	13	
4.00	6.56	17	7	
5.00	8.21	11	5	

H[m]	D[m]	Max lux	Med lux	Beta=38.9°+38.9° G=0.0
1.00	1.61	273	119	
2.00	3.23	68	30	
3.00	4.84	30	13	
4.00	6.46	17	7	
5.00	8.07	11	5	

Luminaire
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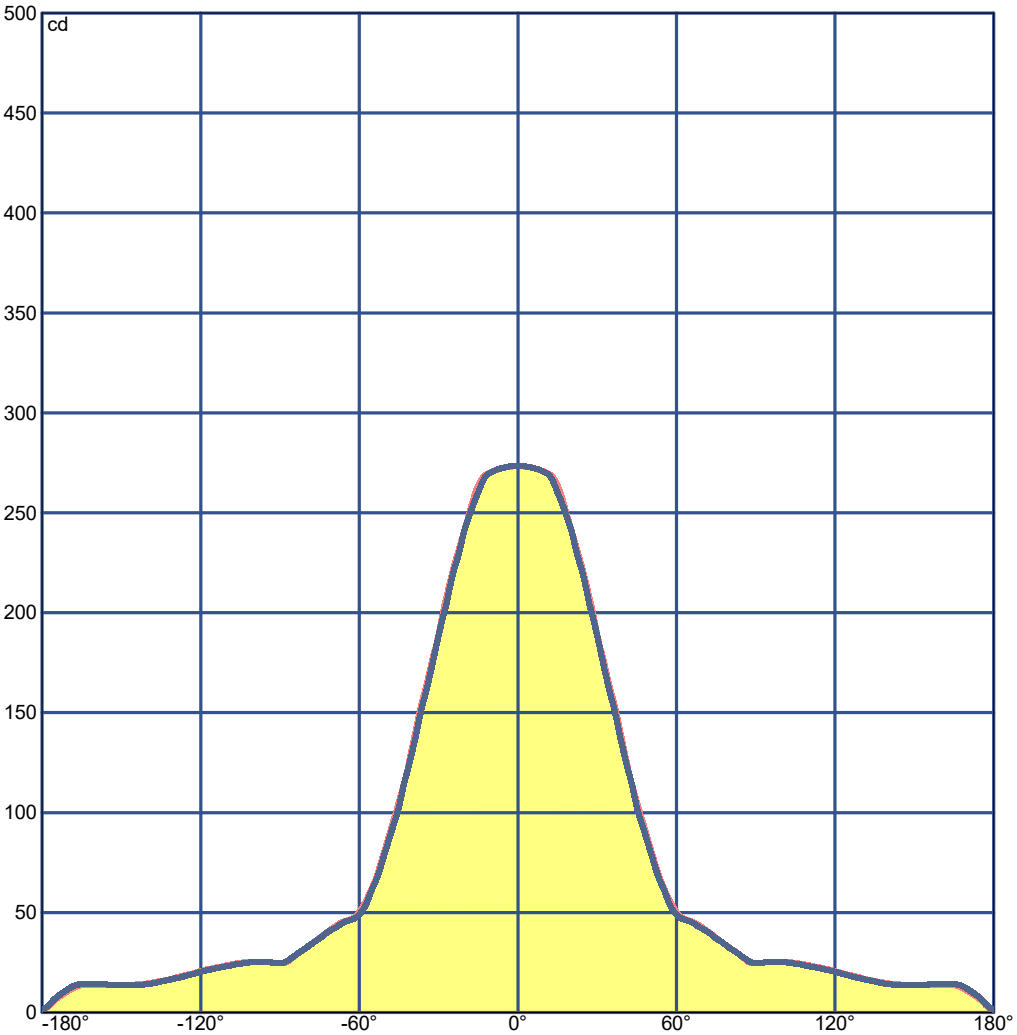
Luminaire Flux	675 lm	Luminaire Power	23.5 W	Efficacy	28.713 lm/W	Efficiency	100.00%
Source Flux	675 lm	Maximum value	273.43 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=260mm



Semiplanos C





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Source Flux	675 lm	Maximum value	273.43 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Flujo Total=675.04 Flujo Luminaria=675.04

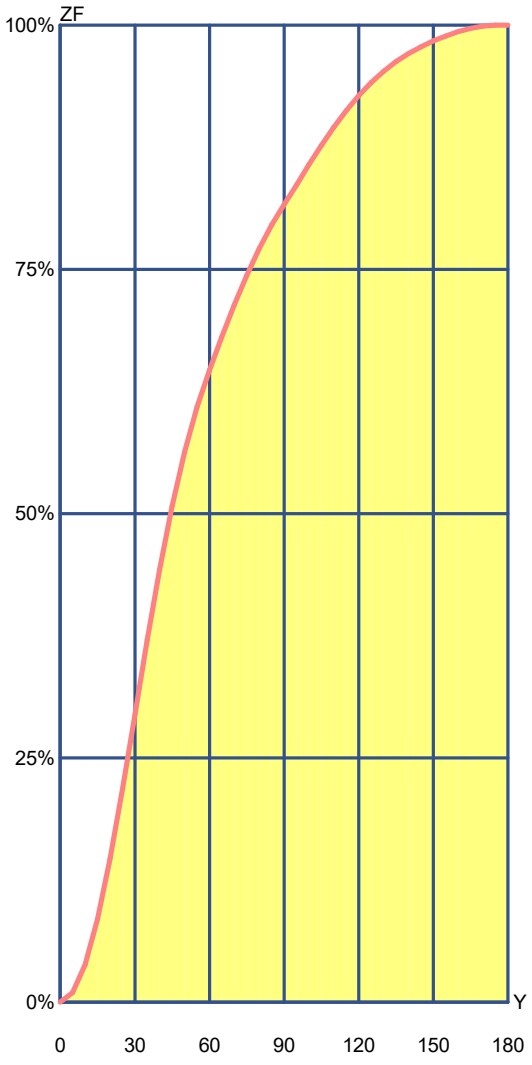
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.39	0.46	0.52	0.58	0.63	0.70	0.75	0.78	0.83	0.85	0.92	0.95
RC	4	4	4	4	4	4	4	5	5	5	6	6

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 %



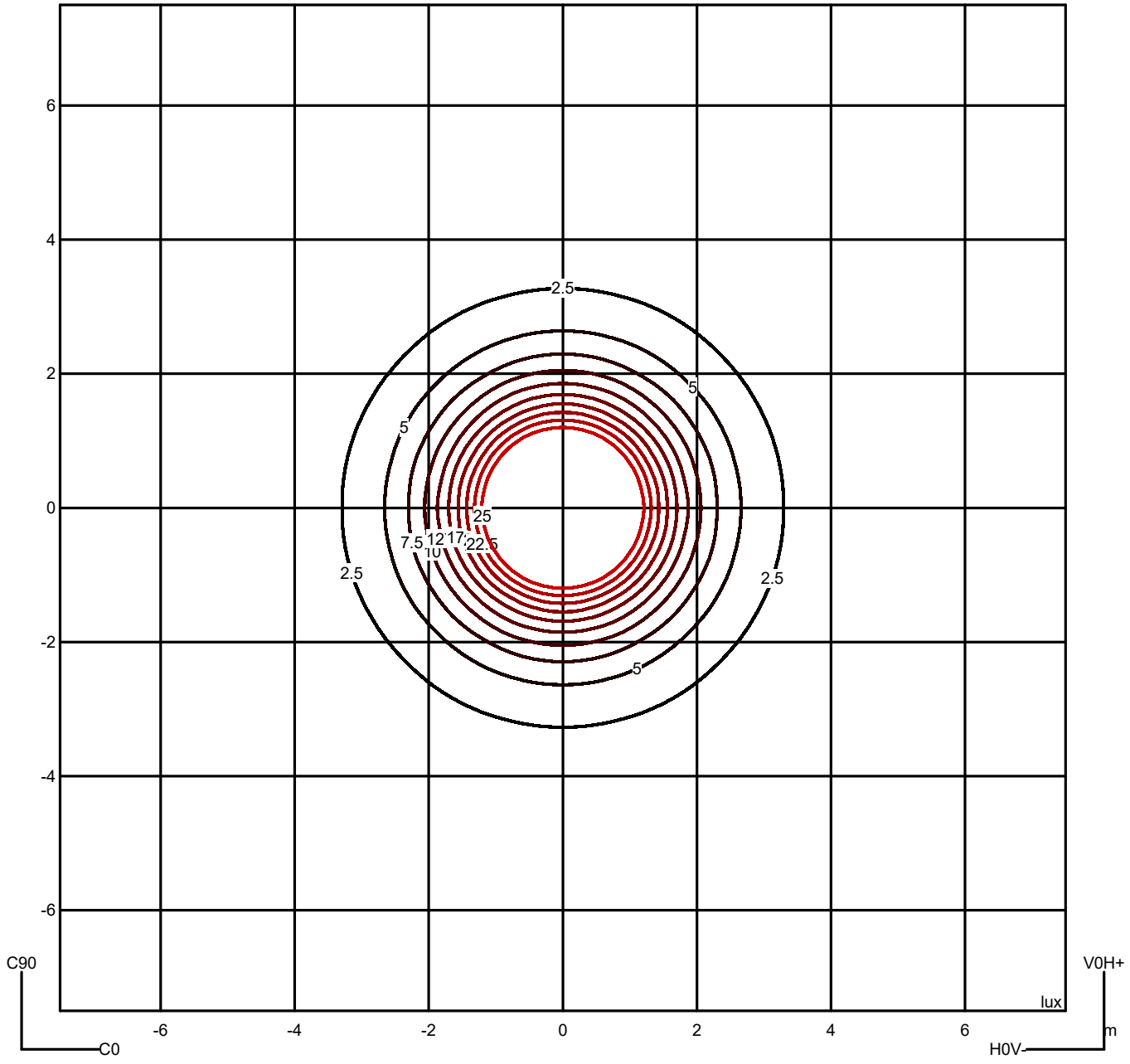
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	9.67	9.67	0.97 %	0.97 %
10°	28.77	38.44	2.88 %	3.84 %
15°	46.84	85.28	4.68 %	8.53 %
20°	61.52	146.80	6.15 %	14.68 %
25°	71.33	218.13	7.13 %	21.81 %
30°	76.26	294.39	7.63 %	29.44 %
35°	76.27	370.66	7.63 %	37.07 %
40°	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 %

Luminaire
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Luminaire Flux	675 lm	Luminaire Power	23.5 W	Efficacy	28.713 lm/W	Efficiency	100.00%
Source Flux	675 lm	Maximum value	273.43 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

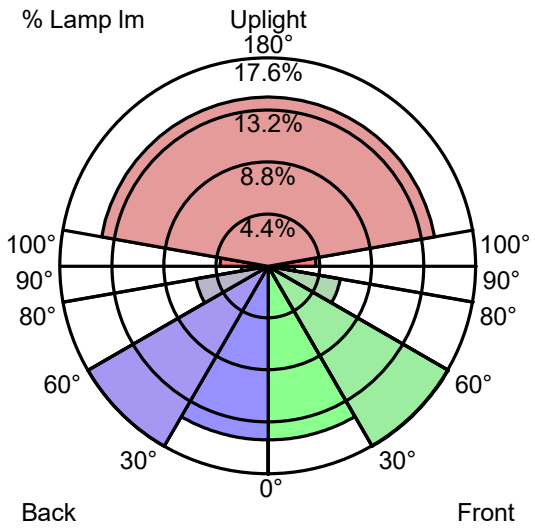
Luminaire position X=0.00m Y=0.00m Z=2.50m

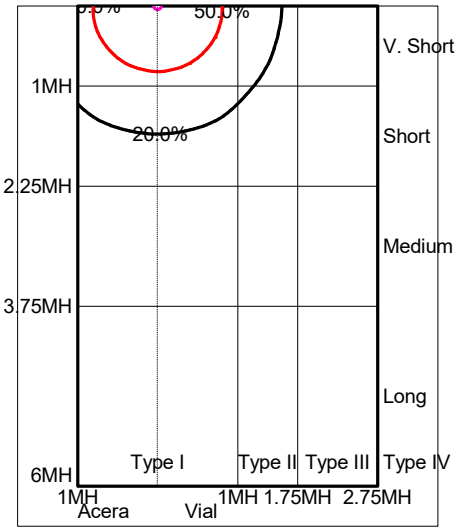


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Source Flux	675 lm	Maximum value	273.43 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

US ROAD STANDARDS





Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	99.4 lm	14.7 %	14.7 %
FM	30° -- 60°	119.0 lm	17.6 %	17.6 %
FH	60° -- 80°	41.9 lm	6.2 %	6.2 %
FVH	80° -- 90°	15.2 lm	2.2 %	2.2 %
BL	0° -- 30°	99.4 lm	14.7 %	14.7 %
BM	30° -- 60°	119.0 lm	17.6 %	17.6 %
BH	60° -- 80°	41.9 lm	6.2 %	6.2 %
BVH	80° -- 90°	15.2 lm	2.2 %	2.2 %
UL	90° -- 100°	27.4 lm	4.1 %	4.1 %
UH	100° -- 180°	96.7 lm	14.3 %	14.3 %
TOTALS		675.0 lm	100.0 %	100.0 %
BUG B0 U3 G1		Type V Very Short		Quadrilateral Symmetry