

Luminaire

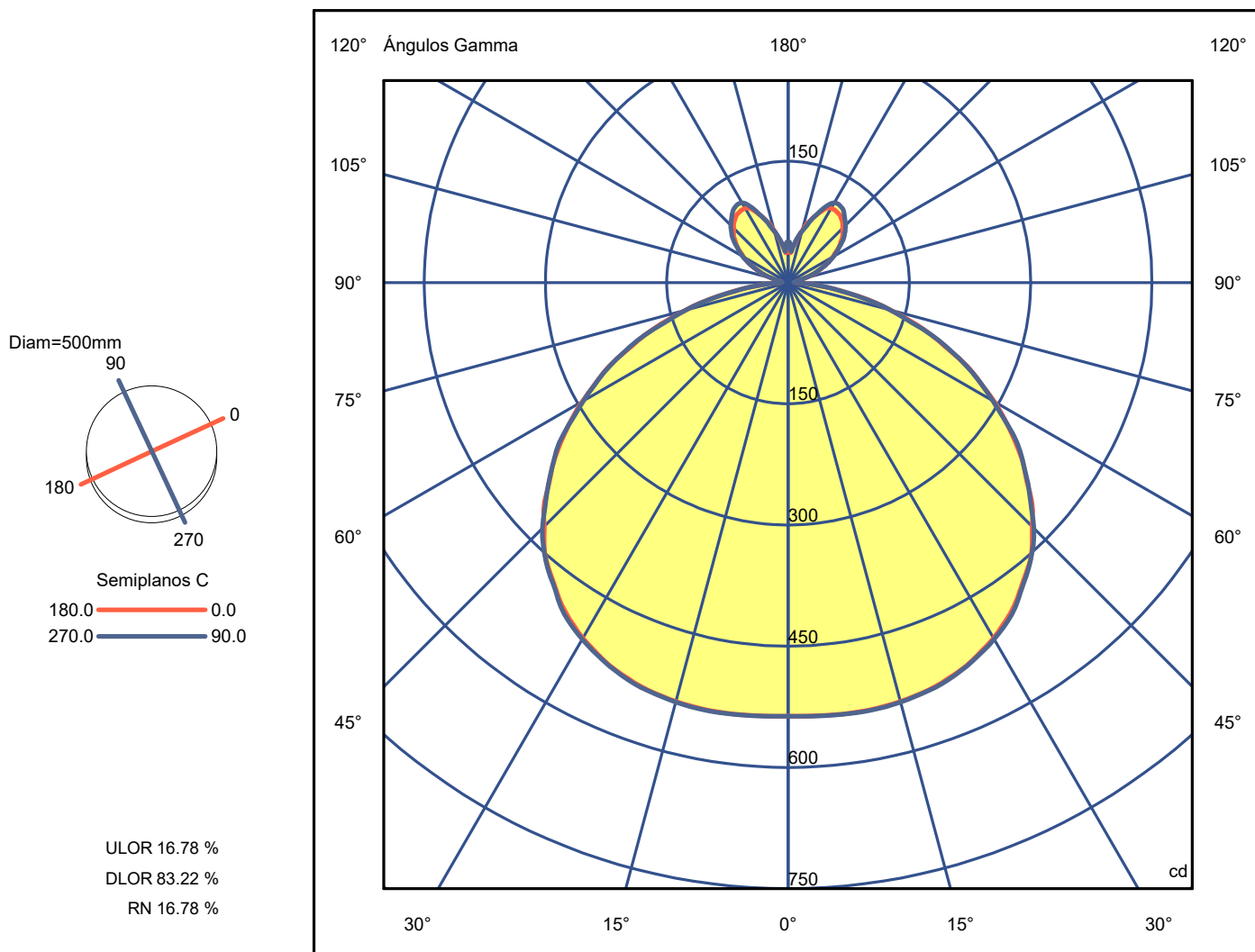
Code A628-057-2700K
Name Plaff-on! 50 LED IP54

Measurem.

Code CL041A21F007G
Name Plaff-on! 50 LED IP54

Luminaire Flux	2172.35 lm	Luminaire Power	31.54 W	Efficacy	68.88 lm/W	Efficiency	100.00%
Sources Flux	2172.35 lm	Maximum value	538.83 cd	Position	C=90.00 G=10.00	CG	Double Symmetrical
Round Luminaire		Diam.	500 mm	Height	130 mm		
Round Luminous Area		Diam.	410 mm	Height	10 mm		
Horizontal Luminous Area		0.132025 m2		Emitting area on Plane 180°		0.004100 m2	
Emitting area on Plane 0°		0.004100 m2		Emitting area on Plane 270°		0.004100 m2	
Emitting area on Plane 90°		0.004100 m2		Glare area at 76°		0.035918 m2	
Coordinate system		CG		Symmetry Type		Double Symmetrical	
Date		12-02-2021		Maximum Gamma Angle		180	
Measurement Distance		6.44		Measurement Flux		2172.35 lm	
Operator		ASSELUM		Rated Voltage		230.23 V	
Temperature		25.10 °C		Rated Current		0.14 A	
Humidity		32.40 %		Photocell		Prc	
Notes		RM21020309.7					

Luminaire Sources						
Line		Code LED	Name LED	Flux [lm]	Pow. [W]	Q.ty
				2172.35	31.54	1
C.I.E.	44 77 95 83 100		D DIN 5040	B31		
F UTE	0.83 E + 0.17 T		B NBN	BZ 5		



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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	536.50	536.50	536.50	536.50	536.50	536.50	536.50
G 2.5	536.84	536.83	536.82	536.83	536.88	536.95	536.98
G 5.0	537.54	537.59	537.62	537.64	537.67	537.68	537.69
G 7.5	538.12	538.21	538.30	538.37	538.38	538.37	538.39
G 10.0	538.28	538.37	538.49	538.63	538.73	538.80	538.83
G 12.5	537.80	537.92	538.08	538.23	538.41	538.53	538.58
G 15.0	536.47	536.76	537.07	537.25	537.30	537.25	537.21
G 17.5	534.63	534.64	534.76	535.05	535.23	535.37	535.42
G 20.0	531.92	531.99	531.96	531.83	532.26	532.73	532.79
G 22.5	527.37	527.46	527.75	528.10	528.40	528.60	528.67
G 25.0	522.74	522.66	522.84	523.31	523.42	523.42	523.40
G 27.5	515.46	515.79	516.36	517.16	517.14	516.86	516.69
G 30.0	507.86	507.63	507.56	507.82	508.47	509.17	509.51
G 32.5	498.23	497.94	497.99	498.47	499.40	500.35	500.79
G 35.0	487.58	487.67	488.19	488.87	489.44	489.82	489.96
G 37.5	473.99	475.17	476.69	478.21	477.45	476.00	475.22
G 40.0	461.10	461.41	462.39	463.96	463.69	462.88	462.42
G 42.5	446.57	445.88	445.42	445.48	446.20	447.10	447.54
G 45.0	426.52	426.35	427.00	428.01	428.98	429.69	429.96
G 47.5	409.93	409.74	410.13	410.17	409.26	408.01	407.38
G 50.0	386.18	387.34	388.92	389.78	389.17	387.91	387.22
G 52.5	366.24	366.34	366.84	367.20	367.04	366.63	366.40
G 55.0	342.55	341.36	340.88	341.43	343.09	344.94	345.81
G 57.5	319.13	318.85	319.40	319.84	319.48	318.76	318.36
G 60.0	294.29	294.95	296.21	296.58	295.11	292.98	291.88
G 62.5	268.28	269.11	270.68	271.47	270.46	268.69	267.76
G 65.0	244.34	242.90	241.91	241.57	241.96	242.62	242.97
G 67.5	213.67	212.73	212.80	213.53	214.57	215.51	215.92
G 70.0	188.22	187.61	188.00	188.54	188.61	188.37	188.21
G 72.5	159.35	160.64	162.26	162.52	160.39	157.45	155.97
G 75.0	131.81	132.31	133.46	133.98	133.05	131.53	130.73
G 77.5	106.73	104.66	102.78	101.98	102.80	104.28	105.07
G 80.0	77.24	76.68	76.95	77.31	77.21	76.87	76.67
G 82.5	56.38	55.68	55.59	55.55	55.13	54.58	54.30
G 85.0	33.66	34.92	36.40	36.91	35.70	33.86	32.90
G 87.5	20.30	20.03	20.05	20.11	20.01	19.83	19.74
G 90.0	11.12	10.72	10.59	10.72	11.09	11.49	11.68
G 92.5	8.46	8.21	8.00	7.82	7.67	7.55	7.51
G 95.0	8.32	8.03	7.75	7.57	7.55	7.63	7.73
G 97.5	9.46	9.33	9.10	8.90	8.81	8.82	8.83
G100.0	11.83	12.01	12.05	11.94	11.69	11.44	11.32
G102.5	16.93	17.05	16.83	16.34	15.70	15.13	14.89
G105.0	21.84	22.16	22.01	21.57	21.00	20.50	20.29
G107.5	29.39	29.11	28.51	28.07	28.28	28.69	28.63
G110.0	35.94	36.08	35.88	35.57	35.34	35.22	35.18
G112.5	42.78	43.58	44.13	44.15	43.49	42.64	42.21
G115.0	50.24	50.70	50.81	50.75	50.66	50.60	50.57
G117.5	57.39	57.51	57.41	57.31	57.38	57.54	57.62
G120.0	63.71	64.11	64.27	64.38	64.59	64.81	64.92
G122.5	69.58	70.48	71.19	71.60	71.54	71.29	71.45
G125.0	76.62	77.65	78.30	78.36	78.15	77.78	77.58
G127.5	81.73	82.66	83.33	83.77	84.33	84.78	84.96
G130.0	87.36	87.84	88.26	88.81	89.43	90.14	90.70
G132.5	91.59	92.51	93.24	93.81	94.56	95.21	95.80
G135.0	95.48	96.66	97.86	98.90	99.65	100.09	100.24
G137.5	99.66	100.67	101.65	102.59	103.45	104.10	104.36
G140.0	102.43	103.29	104.20	105.29	106.57	107.68	108.15
G142.5	104.96	105.48	106.25	107.58	109.56	111.45	112.29
G145.0	106.04	106.49	107.22	108.69	111.03	113.33	114.36
G147.5	106.70	106.81	106.77	107.42	110.39	113.67	115.23
G150.0	106.13	104.80	103.79	104.24	107.81	112.11	114.19
G152.5	103.80	101.94	100.21	99.73	102.74	106.80	109.04
G155.0	97.61	95.93	94.66	94.21	96.27	99.03	100.41
G157.5	90.55	90.03	89.23	88.84	89.32	90.16	90.61
G160.0	82.86	82.81	82.26	81.77	81.78	82.07	82.24
G162.5	76.04	75.83	74.92	73.86	73.13	72.75	72.64
G165.0	66.90	66.56	65.61	64.87	64.94	65.43	65.74
G167.5	58.57	58.33	57.70	57.39	57.86	58.66	59.08
G170.0	50.21	50.28	50.23	50.40	50.99	51.69	52.02
G172.5	43.22	44.26	45.13	45.46	45.05	44.36	43.99
G175.0	37.14	39.96	42.63	43.98	42.86	40.46	38.61
G177.5	39.30	41.21	43.45	45.68	47.59	48.91	49.41
G180.0	48.47	48.47	48.47	48.47	48.47	48.47	48.47

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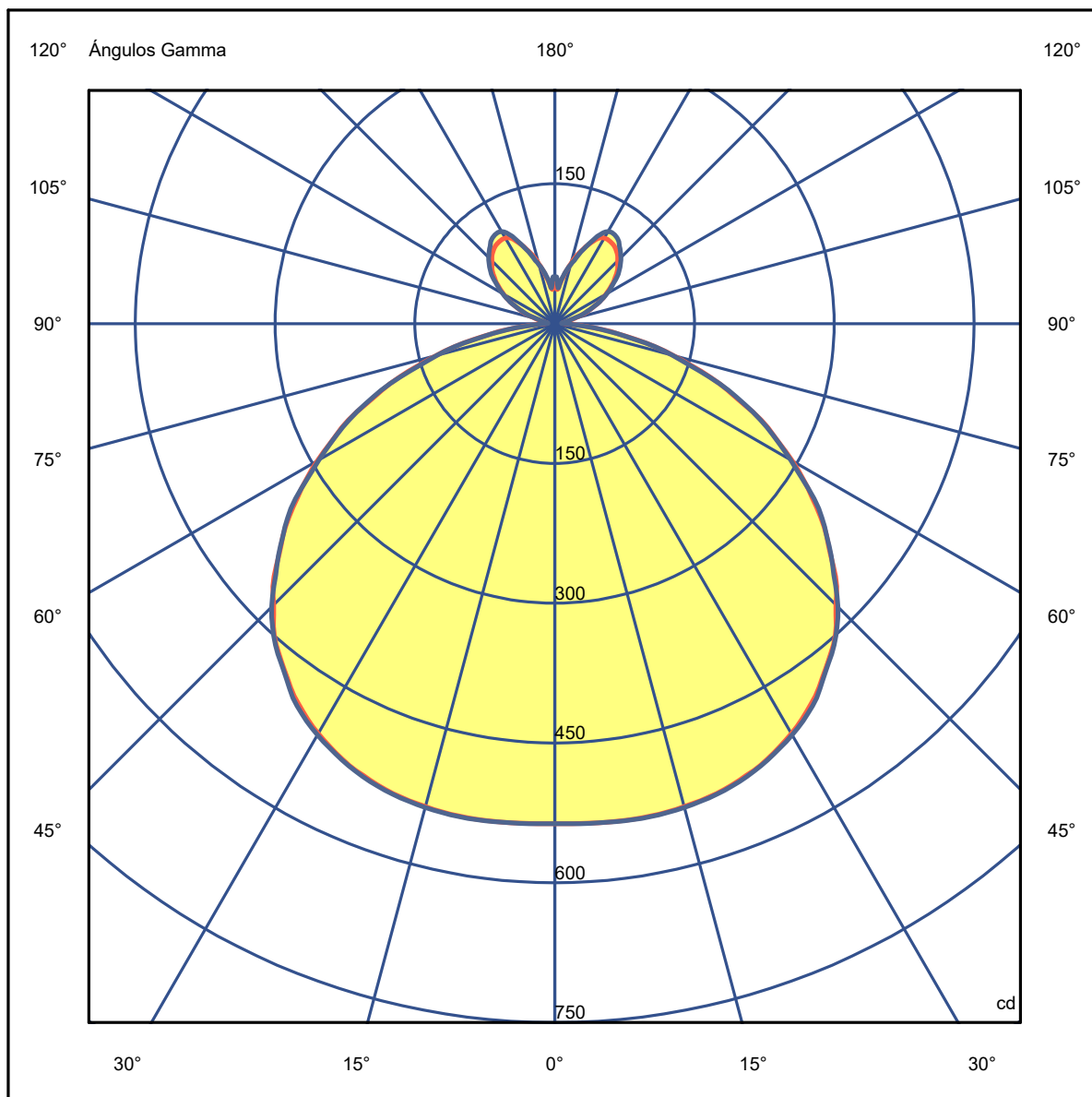
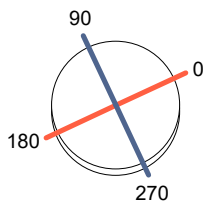
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Diam=500mm

Semiplanos C

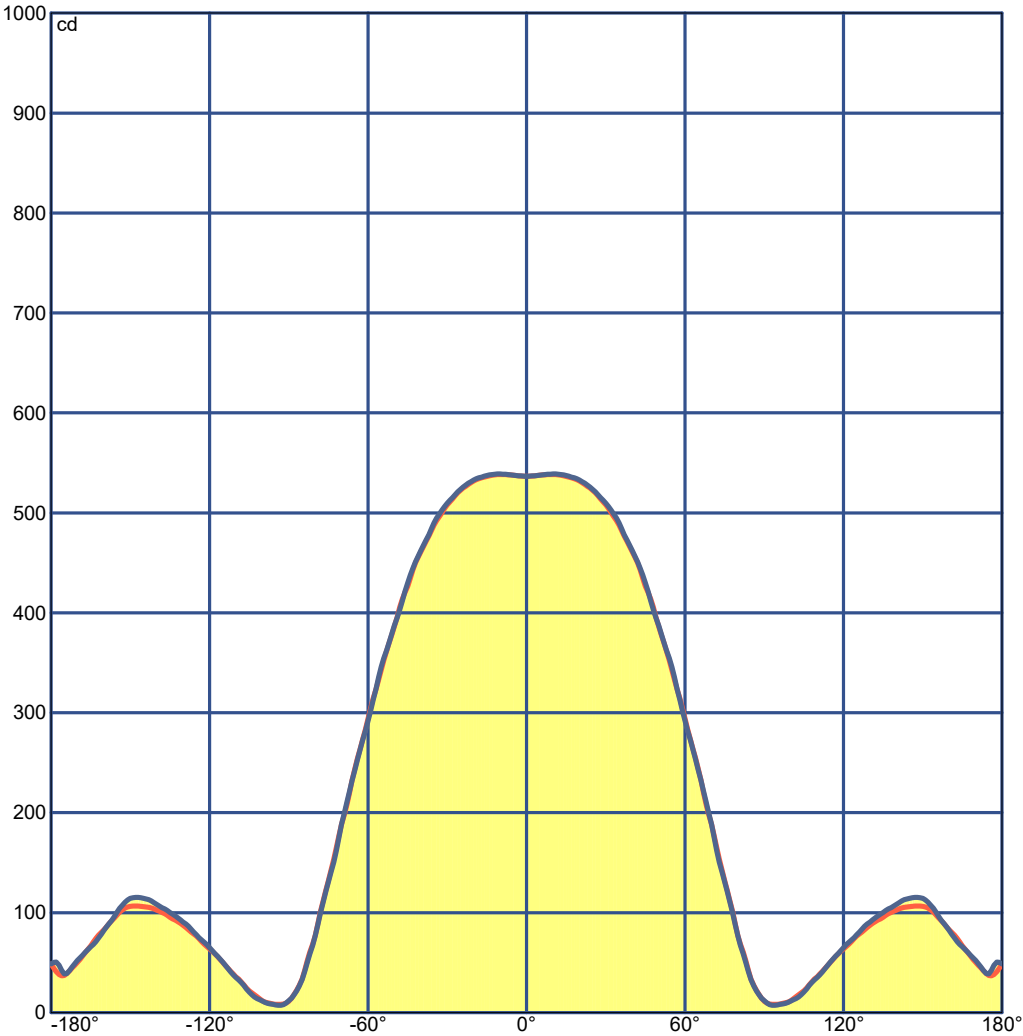
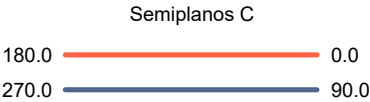
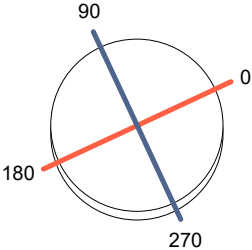
180.0 ——— 0.0
270.0 ——— 90.0



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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
Working Plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions										
Room Dimensions	Lateral View					Viewed Endwise				
	x=2H y=2H	x=2H y=3H	x=2H y=4H	x=2H y=6H	x=2H y=8H	x=2H y=12H	x=4H y=2H	x=4H y=3H	x=4H y=4H	x=4H y=6H
16.9	18.0	17.4	18.5	19.1	16.9	18.0	17.4	18.5	19.1	19.1
18.5	19.5	19.0	20.0	20.6	18.5	19.5	19.0	20.0	20.6	20.6
19.1	20.0	19.6	20.6	21.2	19.1	20.0	19.6	20.6	21.2	21.2
19.5	20.4	20.1	21.0	21.6	19.5	20.4	20.1	20.9	21.6	21.6
19.6	20.4	20.2	21.0	21.7	19.6	20.4	20.2	21.0	21.7	21.7
19.7	20.5	20.3	21.1	21.7	19.6	20.4	20.2	21.0	21.7	21.7
17.5	18.5	18.1	19.0	19.7	17.5	18.5	18.1	19.0	19.7	19.7
19.3	20.1	19.9	20.7	21.4	19.3	20.1	19.9	20.7	21.4	21.4
20.0	20.7	20.6	21.3	22.0	20.0	20.7	20.6	21.3	22.0	22.0
20.5	21.1	21.2	21.8	22.5	20.5	21.1	21.2	21.8	22.5	22.5
20.7	21.2	21.4	21.9	22.7	20.7	21.2	21.3	21.9	22.6	22.6
20.8	21.3	21.5	22.0	22.7	20.8	21.3	21.4	21.9	22.7	22.7
20.3	20.8	20.9	21.5	22.2	20.2	20.8	20.9	21.5	22.2	22.2
20.9	21.4	21.6	22.0	22.8	20.9	21.3	21.6	22.0	22.8	22.8
21.1	21.5	21.8	22.2	23.0	21.1	21.5	21.8	22.2	23.0	23.0
21.3	21.6	22.0	22.4	23.2	21.2	21.6	22.0	22.3	23.2	23.2
20.6	21.1	21.3	21.8	22.6	20.6	21.1	21.3	21.8	22.6	22.6
21.2	21.6	21.9	22.3	23.1	21.2	21.6	21.9	22.3	23.1	23.1
21.5	21.8	22.2	22.5	23.4	21.4	21.8	22.2	22.5	23.4	23.4

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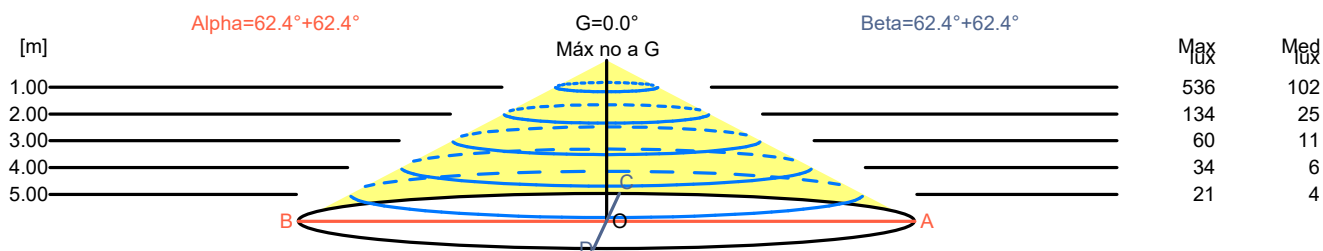
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Width at 50.00 % of Max Intensity

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	1.91	3.83	5.74	7.66	9.57	OC	1.91	3.82	5.73	7.64	9.55
OB	1.91	3.83	5.74	7.66	9.57	OD	1.91	3.82	5.73	7.64	9.55

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	536.50	537.54	536.47	522.74	487.58	426.52	342.55	244.34	131.81	33.66
OB	536.50	537.54	536.47	522.74	487.58	426.52	342.55	244.34	131.81	33.66
OC	536.50	537.69	537.21	523.40	489.96	429.96	345.81	242.97	130.73	32.90
OD	536.50	537.69	537.21	523.40	489.96	429.96	345.81	242.97	130.73	32.90



H[m]	D[m]	Max lux	Med lux	Alpha=62.4°+62.4°	G=0.0° Máx no a G
1.00	3.83	536	102		
2.00	7.66	134	25		
3.00	11.49	60	11		
4.00	15.32	34	6		
5.00	19.15	21	4		

H[m]	D[m]	Max lux	Med lux	Beta=62.4°+62.4°	G=0.0° Máx no a G
1.00	3.82	536	102		
2.00	7.64	134	25		
3.00	11.45	60	11		
4.00	15.27	34	6		
5.00	19.09	21	4		

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Flujo Total=2172.35 Flujo Luminaria=2172.35

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	0.28	0.37	0.44	0.52	0.57	0.66	0.72	0.76	0.82	0.85	0.92	0.96
RC	6	5	5	5	5	5	5	5	5	5	5	5

Flujo Zonal por 1000 Lúmenes

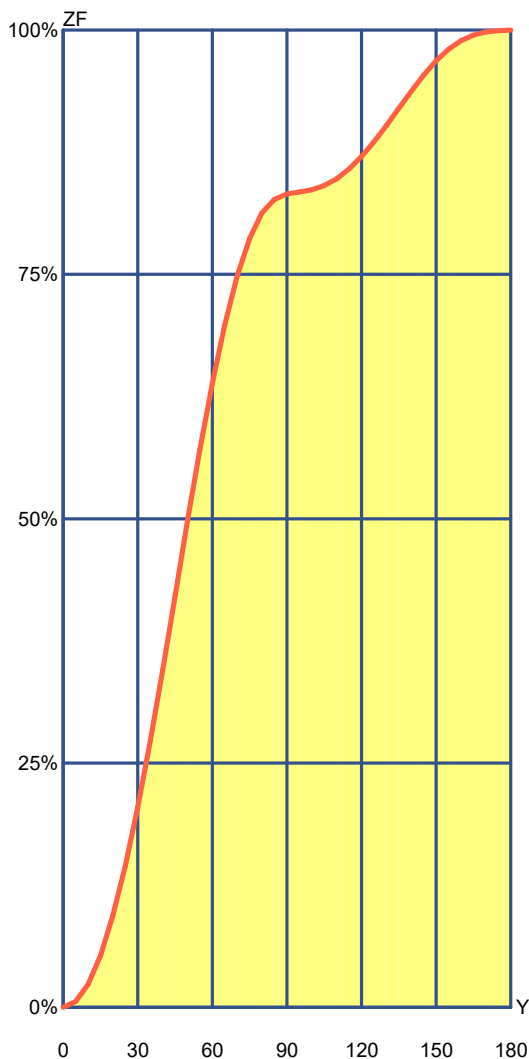
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	24	94	205	345	497	638	749	813	832	837	848	871	902	937	969	989	998	1000

Códigos de Flujo C.I.E.

44 77 95 83 100

C.I.E. 6/5/5/5/5/5/5/5/5/5
D DIN 5040 B31
F UTE 0.83 E + 0.17 T
B NBN BZ 5
RN 16.77948 %
BLF 1.0

LOR 100.00000 %
ULOR 16.77948 %
DLOR 83.22052 %
UFF 16.77948 %
DFF 83.22052 %
FFR 20.16267 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	5.91	5.91	0.59 %	0.59 %
10°	17.73	23.64	1.77 %	2.36 %
15°	29.38	53.02	2.94 %	5.30 %
20°	40.57	93.59	4.06 %	9.36 %
25°	50.96	144.55	5.10 %	14.46 %
30°	60.12	204.67	6.01 %	20.47 %
35°	67.59	272.26	6.76 %	27.23 %
40°	73.09	345.35	7.31 %	34.54 %
45°	75.96	421.31	7.60 %	42.13 %
50°	76.00	497.31	7.60 %	49.73 %
55°	73.25	570.56	7.32 %	57.06 %
60°	67.84	638.40	6.78 %	63.84 %
65°	60.21	698.62	6.02 %	69.86 %
70°	50.01	748.63	5.00 %	74.86 %
75°	38.55	787.18	3.85 %	78.72 %
80°	25.67	812.85	2.57 %	81.28 %
85°	13.93	826.77	1.39 %	82.68 %
90°	5.43	832.21	0.54 %	83.22 %
95°	2.18	834.38	0.22 %	83.44 %
100°	2.35	836.73	0.23 %	83.67 %
105°	4.03	840.76	0.40 %	84.08 %
110°	6.87	847.63	0.69 %	84.76 %
115°	10.08	857.71	1.01 %	85.77 %
120°	12.86	870.56	1.29 %	87.06 %
125°	15.13	885.69	1.51 %	88.57 %
130°	16.72	902.41	1.67 %	90.24 %
135°	17.44	919.84	1.74 %	91.98 %
140°	17.41	937.25	1.74 %	93.73 %
145°	16.55	953.81	1.66 %	95.38 %
150°	14.76	968.57	1.48 %	96.86 %
155°	11.94	980.51	1.19 %	98.05 %
160°	8.66	989.17	0.87 %	98.92 %
165°	5.64	994.81	0.56 %	99.48 %
170°	3.20	998.01	0.32 %	99.80 %
175°	1.51	999.51	0.15 %	99.95 %
180°	0.49	1000.00	0.05 %	100.00 %

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Isolux (Floor)

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

