

**Luminaire**

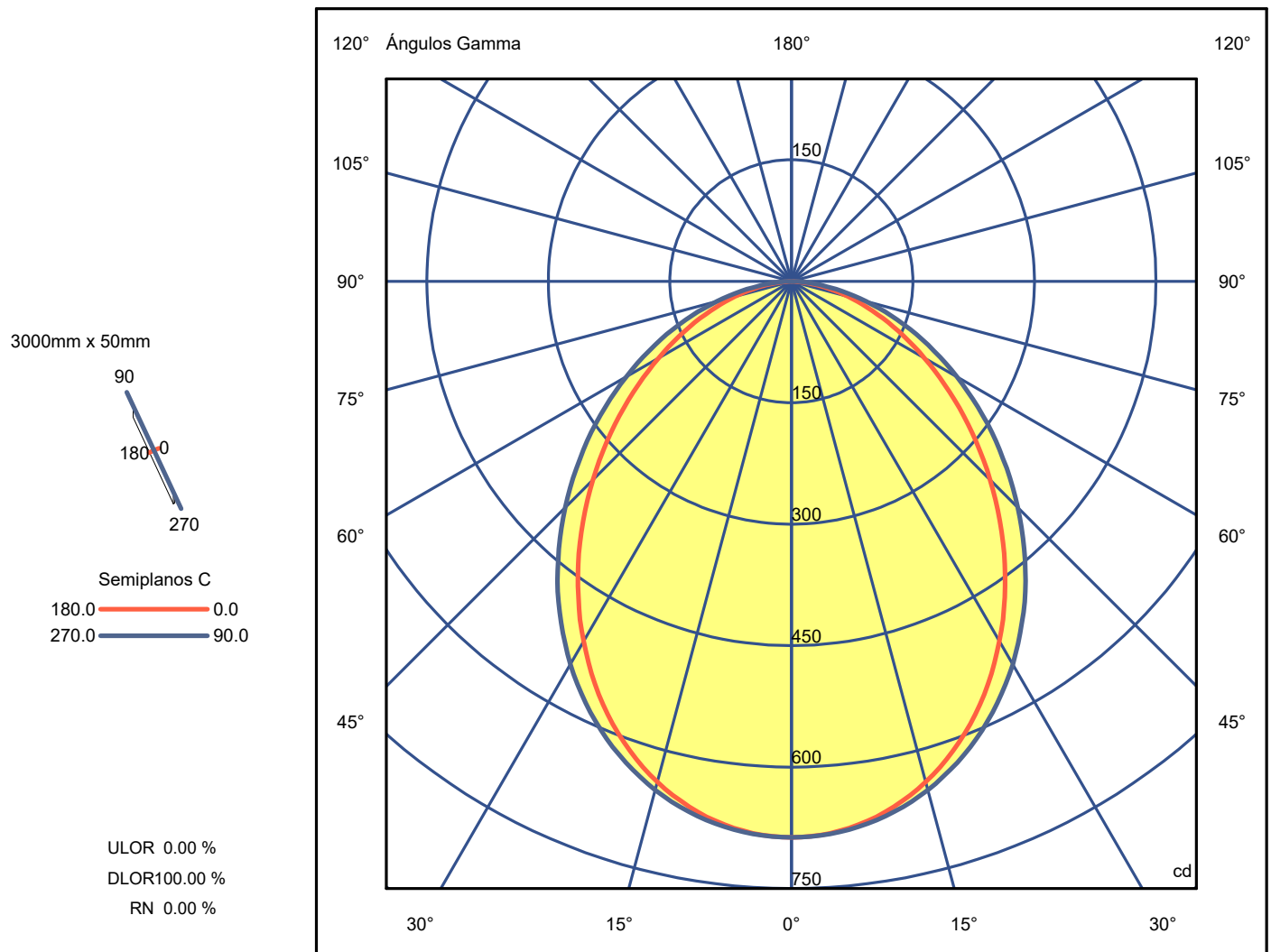
Code 5979  
Name SPA (3000mm)

**Measurem.**

Code CL252A22F025GE6  
Name SPA (3000mm)

Luminaire Flux	1607.97 lm	Luminaire Power	26.46 W	Efficacy	60.77 lm/W	Efficiency	100.00%
Sources Flux	1607.97 lm	Maximum value	686.66 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical
Rectangular Luminaire		Length	3000 mm	Width	50 mm	Height	25 mm
Rectangular Luminous Area		Length	3000 mm	Width	40 mm	Height	0 mm
Horizontal Luminous Area		0.120000 m2		Emitting area on Plane 180°		0.000000 m2	
Emitting area on Plane 0°		0.000000 m2		Emitting area on Plane 270°		0.000000 m2	
Emitting area on Plane 90°		0.000000 m2		Glare area at 76°		0.029031 m2	
Coordinate system		CG		Symmetry Type		Double Symmetrical	
Date		15-12-2022		Maximum Gamma Angle		90	
Measurement Distance		6.44		Measurement Flux		1607.97 lm	
Operator				Rated Voltage			
Temperature		24.90 °C		Rated Current			
Humidity		39.50 %		Photocell			
Notes						Czibula Grundmann	

Luminaire Sources						
Line		Code LED	Name LED	Flux [lm]	Pow. [W]	Q.ty
				1607.97	26.46	1
C.I.E.	53 83 96 100 100		D DIN 5040	A40		
F UTE	1.00 D		B NBN	BZ 4		



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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	686.66	686.66	686.66	686.66	686.66	686.66	686.66
G 2.5	685.28	685.30	685.38	685.48	685.72	685.64	685.60
G 5.0	681.19	681.34	681.51	682.02	682.31	682.56	682.56
G 7.5	674.58	674.83	675.37	676.03	676.81	677.20	677.46
G 10.0	665.56	665.83	666.59	668.03	669.25	670.13	670.35
G 12.5	653.72	654.55	655.66	657.61	659.39	660.91	661.27
G 15.0	640.08	640.76	642.48	645.13	647.69	649.75	650.27
G 17.5	623.78	624.64	626.87	630.22	633.68	636.28	637.08
G 20.0	605.33	606.51	609.25	613.52	617.74	621.43	622.23
G 22.5	585.08	586.41	589.71	594.89	600.01	604.47	605.71
G 25.0	562.93	564.36	568.13	574.43	580.27	585.39	587.21
G 27.5	538.64	540.91	545.11	552.43	559.36	565.41	567.04
G 30.0	513.23	515.37	520.34	528.49	536.71	543.17	546.17
G 32.5	487.16	489.56	494.73	503.59	512.54	520.54	522.65
G 35.0	459.37	462.50	467.60	477.96	487.47	496.23	499.13
G 37.5	432.09	434.37	441.12	450.92	461.75	470.79	474.45
G 40.0	403.65	406.56	412.87	423.99	434.80	445.53	448.18
G 42.5	374.88	378.55	384.43	396.15	407.44	418.65	421.55
G 45.0	346.65	349.85	356.70	368.19	380.40	391.43	395.00
G 47.5	318.67	322.49	328.88	340.98	352.76	364.69	368.37
G 50.0	290.97	294.64	301.37	313.52	325.88	337.92	340.97
G 52.5	264.59	268.21	274.28	287.17	299.38	310.88	314.66
G 55.0	238.20	241.77	248.90	260.97	273.31	284.58	288.01
G 57.5	213.26	217.36	222.95	235.73	247.55	258.64	261.49
G 60.0	189.61	192.89	199.49	210.77	222.46	233.19	235.82
G 62.5	167.11	170.51	175.92	187.33	198.54	208.56	210.71
G 65.0	145.46	148.88	153.88	164.75	174.81	184.63	185.97
G 67.5	125.78	128.45	133.55	142.62	152.74	160.52	162.69
G 70.0	106.38	109.32	113.51	122.39	130.28	138.45	138.90
G 72.5	88.87	91.35	95.17	102.80	109.91	116.83	117.22
G 75.0	72.06	74.42	77.73	84.46	90.00	96.09	95.36
G 77.5	56.93	58.62	61.08	66.64	71.42	76.41	75.26
G 80.0	41.67	43.20	45.21	49.95	53.28	57.27	56.04
G 82.5	28.26	29.31	30.77	34.50	37.32	40.52	39.11
G 85.0	14.91	16.56	17.23	20.17	22.44	25.13	24.20
G 87.5	4.34	6.60	6.02	9.61	9.35	12.35	11.45
G 90.0	1.44	1.77	2.20	3.02	4.23	5.42	5.92

**Luminaire**

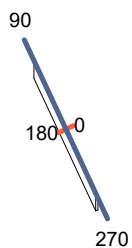
Code 5979  
Name SPA (3000mm)

**Measurem.**

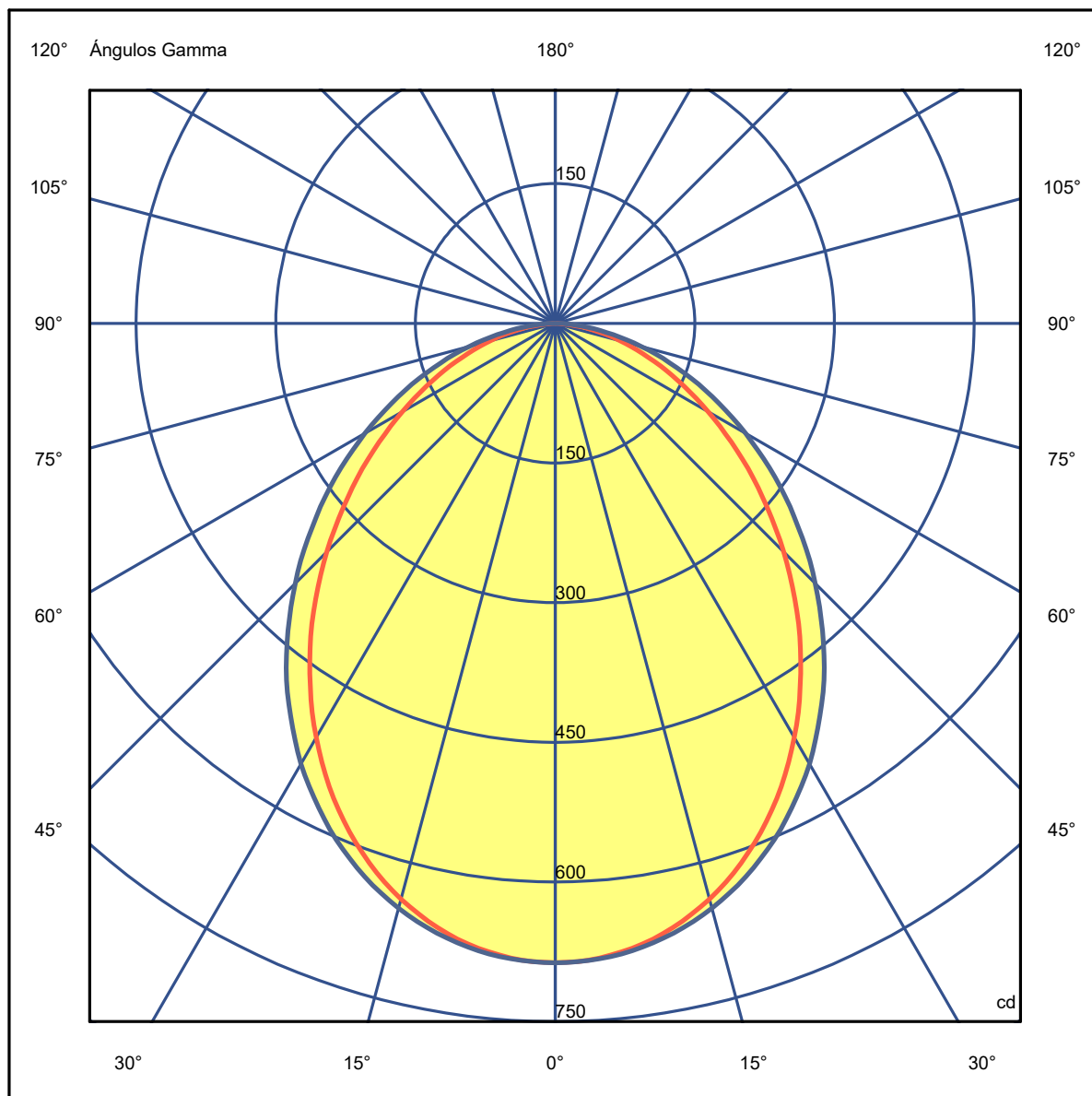
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Sources Flux	1607.97 lm	Maximum value	686.66 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

3000mm x 50mm

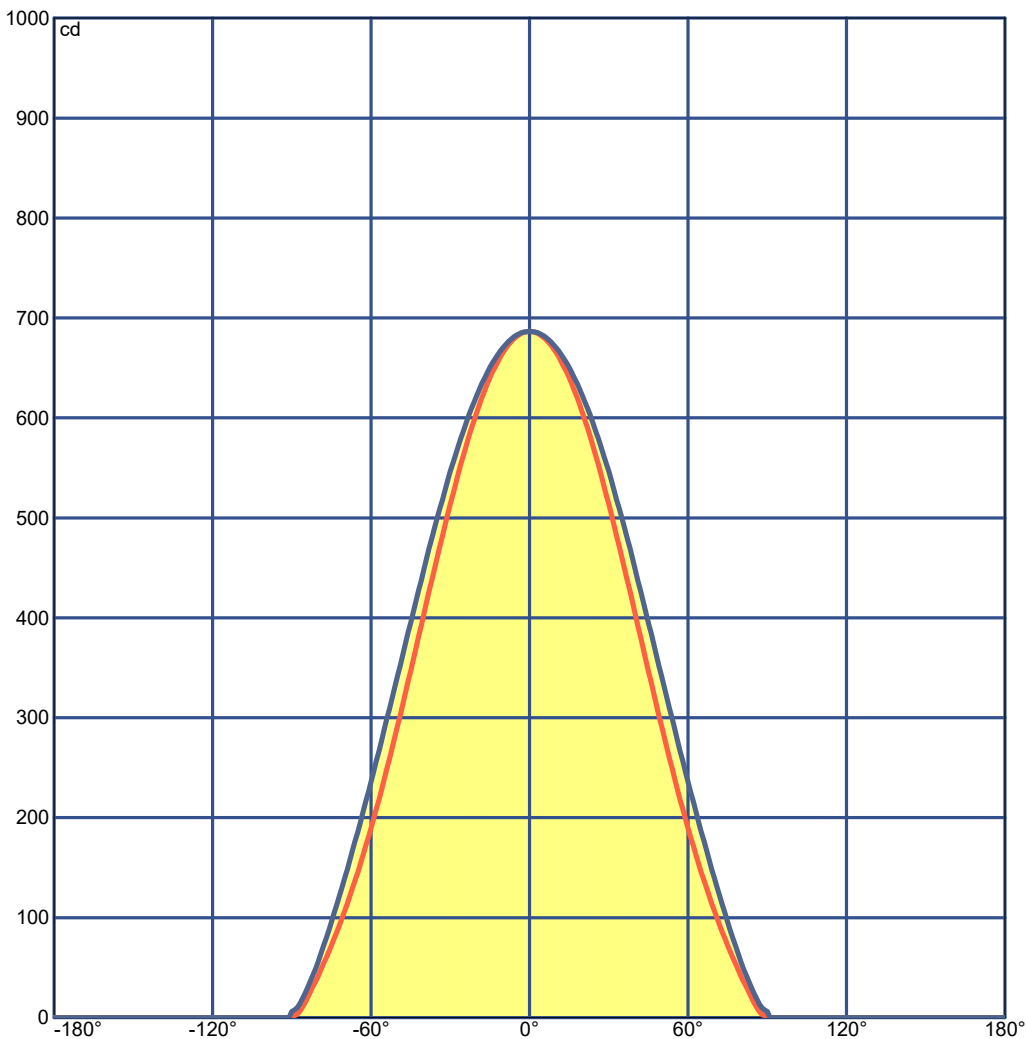


Semiplanos C



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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	Lateral View					Viewed Endwise				
x=2H y=2H	16.5	17.8	16.8	18.0	18.2	17.5	18.7	17.7	18.9	19.2
x=2H y=3H	17.7	18.8	18.0	19.1	19.4	18.9	20.0	19.2	20.3	20.5
x=2H y=4H	18.2	19.2	18.5	19.5	19.8	19.4	20.5	19.8	20.8	21.1
x=2H y=6H	18.5	19.5	18.8	19.7	20.1	19.8	20.8	20.2	21.1	21.4
x=2H y=8H	18.6	19.5	18.9	19.8	20.1	20.0	20.9	20.3	21.2	21.5
x=2H y=12H	18.6	19.5	19.0	19.8	20.2	20.0	21.0	20.4	21.3	21.6
x=4H y=2H	17.2	18.3	17.5	18.5	18.8	17.9	19.0	18.3	19.3	19.6
x=4H y=3H	18.6	19.5	18.9	19.8	20.1	19.5	20.5	19.9	20.8	21.1
x=4H y=4H	19.1	19.9	19.5	20.3	20.6	20.3	21.1	20.6	21.4	21.8
x=4H y=6H	19.6	20.3	20.0	20.6	21.0	20.8	21.5	21.2	21.9	22.3
x=4H y=8H	19.7	20.3	20.1	20.7	21.1	21.0	21.6	21.4	22.0	22.4
x=4H y=12H	19.8	20.3	20.2	20.7	21.2	21.1	21.7	21.6	22.1	22.5
x=8H y=4H	19.5	20.1	19.9	20.5	20.9	20.5	21.1	20.9	21.5	21.9
x=8H y=6H	20.0	20.5	20.4	20.9	21.4	21.1	21.6	21.6	22.1	22.5
x=8H y=8H	20.2	20.6	20.7	21.1	21.6	21.4	21.8	21.9	22.3	22.8
x=8H y=12H	20.3	20.7	20.8	21.2	21.7	21.6	22.0	22.1	22.4	23.0
x=12H y=4H	20.0	20.6	20.4	21.0	21.4	20.7	21.3	21.1	21.7	22.1
x=12H y=6H	20.5	20.9	21.0	21.4	21.9	21.3	21.8	21.8	22.2	22.7
x=12H y=8H	20.7	21.1	21.2	21.5	22.0	21.6	22.0	22.1	22.5	23.0

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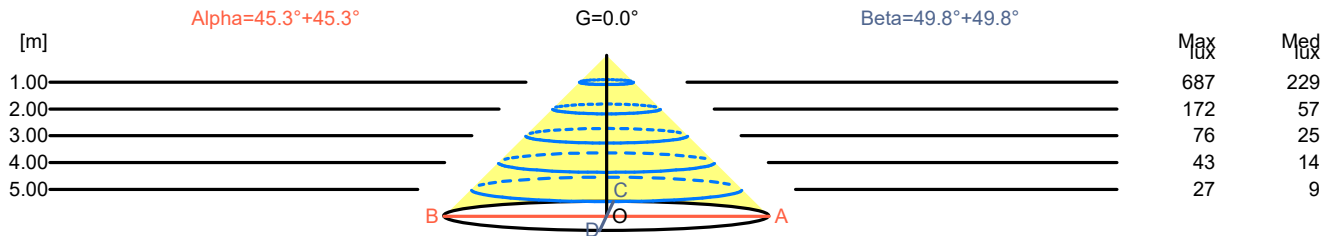
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Sources Flux	1607.97 lm	Maximum value	686.66 cd	Position	C=0.00 G=0.00	CG Double Symmetrical	

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	1.01	2.02	3.03	4.04	5.05	OC	1.18	2.37	3.55	4.73	5.91
OB	1.01	2.02	3.03	4.04	5.05	OD	1.18	2.37	3.55	4.73	5.91

Luminous Intensities [ cd]

	0	5	15	25	35	45	55	65	75	85
OA	686.66	681.19	640.08	562.93	459.37	346.65	238.20	145.46	72.06	14.91
OB	686.66	681.19	640.08	562.93	459.37	346.65	238.20	145.46	72.06	14.91
OC	686.66	682.56	650.27	587.21	499.13	395.00	288.01	185.97	95.36	24.20
OD	686.66	682.56	650.27	587.21	499.13	395.00	288.01	185.97	95.36	24.20



H[m]	D[m]	Max lux	Med lux	Alpha=45.3°+45.3°	G=0.0	
1.00	2.02	687	229			
2.00	4.04	172	57			
3.00	6.06	76	25			
4.00	8.08	43	14			
5.00	10.10	27	9			

H[m]	D[m]	Max lux	Med lux	Beta=49.8°+49.8°	G=0.0	
1.00	2.37	687	229			
2.00	4.73	172	57			
3.00	7.10	76	25			
4.00	9.46	43	14			
5.00	11.83	27	9			

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Flujo Total=1607.97 Flujo Luminaria=1607.97

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	0.35	0.43	0.51	0.58	0.63	0.71	0.77	0.80	0.85	0.88	0.94	0.97
RC	4	4	4	4	4	4	4	4	4	4	4	4

Flujo Zonal por 1000 Lúmenes

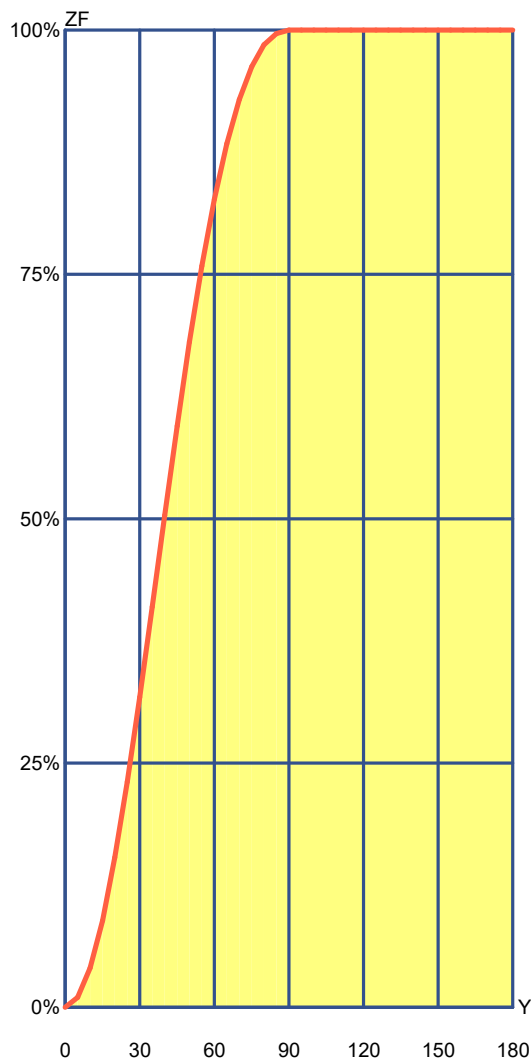
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	40	153	318	503	681	827	929	985	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.

53 83 96 100 100

C.I.E. 4  
D DIN 5040 A40  
F UTE 1.00 D  
B NBN BZ 4  
RN 0.00000 %  
BLF 1.0

LOR 100.00000 %  
ULOR 0.00000 %  
DLOR 100.00000 %  
UFF 0.00000 %  
DFF 100.00000 %  
FFR 0.00000 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	10.18	10.18	1.02 %	1.02 %
10°	30.03	40.21	3.00 %	4.02 %
15°	48.44	88.64	4.84 %	8.86 %
20°	64.51	153.16	6.45 %	15.32 %
25°	77.51	230.66	7.75 %	23.07 %
30°	86.85	317.51	8.68 %	31.75 %
35°	92.24	409.75	9.22 %	40.97 %
40°	93.69	503.44	9.37 %	50.34 %
45°	91.41	594.85	9.14 %	59.49 %
50°	85.94	680.80	8.59 %	68.08 %
55°	77.93	758.73	7.79 %	75.87 %
60°	68.03	826.76	6.80 %	82.68 %
65°	56.95	883.71	5.70 %	88.37 %
70°	45.29	929.00	4.53 %	92.90 %
75°	33.59	962.59	3.36 %	96.26 %
80°	22.24	984.83	2.22 %	98.48 %
85°	11.70	996.52	1.17 %	99.65 %
90°	3.48	1000.00	0.35 %	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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Isolux (Floor)

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

