

**Luminaire**

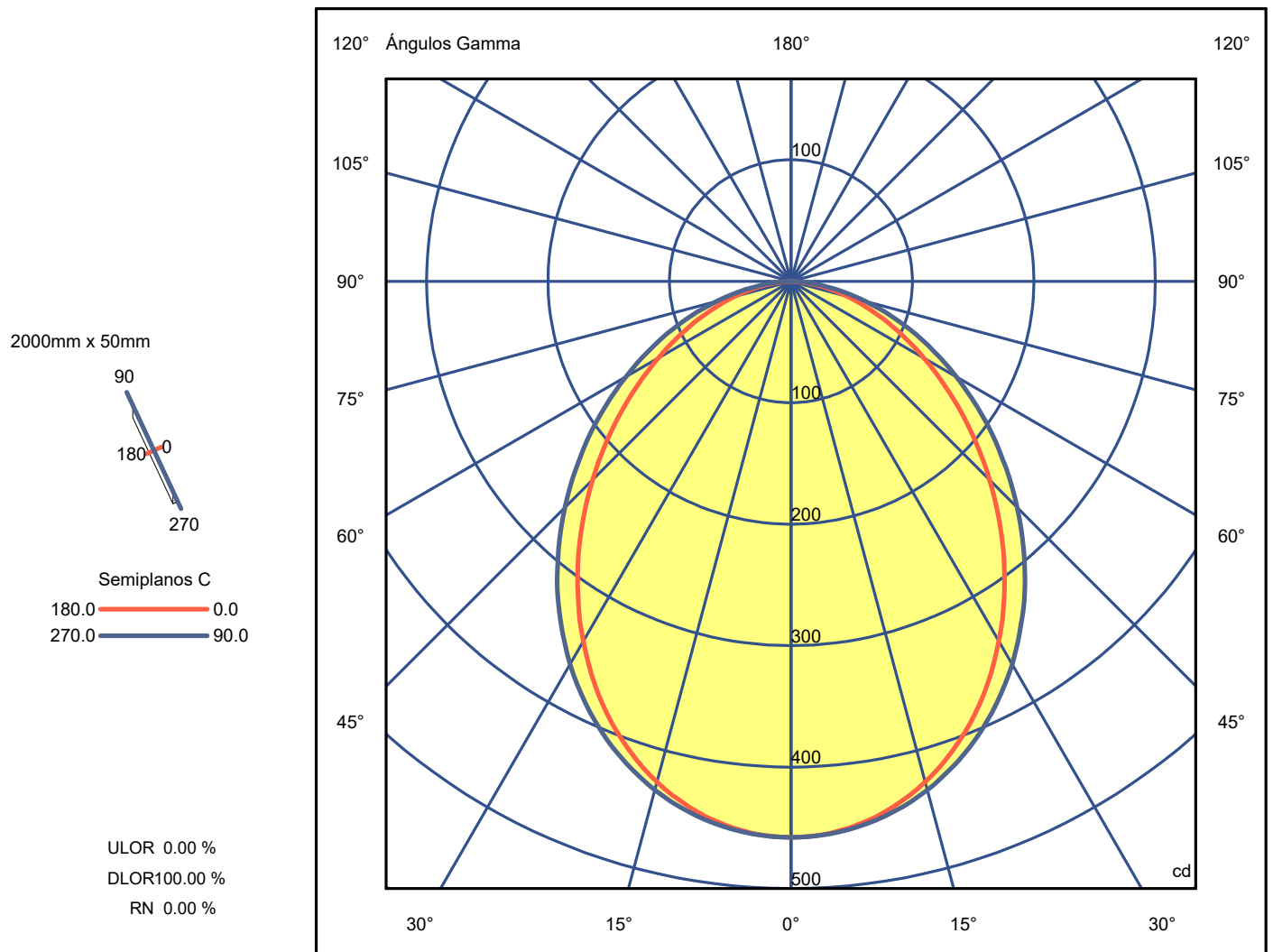
Code 5977  
Name SPA (2000mm)

**Measurem.**

Code CL252A22F025GE3  
Name SPA (2000mm)

Luminaire Flux	1071.98 lm	Luminaire Power	17.64 W	Efficacy	60.77 lm/W	Efficiency	100.00%
Sources Flux	1071.98 lm	Maximum value	457.78 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical
Rectangular Luminaire		Length	2000 mm	Width	50 mm	Height	25 mm
Rectangular Luminous Area		Length	2000 mm	Width	40 mm	Height	0 mm
Horizontal Luminous Area		0.080000 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°		0.019354 m2	
Coordinate system		CG		Symmetry Type		Double Symmetrical	
Date		15-12-2022		Maximum Gamma Angle		90	
Measurement Distance		6.44		Measurement Flux		1071.98 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
				1071.98	17.64	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	457.78	457.78	457.78	457.78	457.78	457.78	457.78
G 2.5	456.85	456.87	456.92	456.99	457.15	457.09	457.06
G 5.0	454.13	454.23	454.34	454.68	454.87	455.04	455.04
G 7.5	449.72	449.89	450.25	450.69	451.21	451.46	451.64
G 10.0	443.71	443.88	444.39	445.36	446.17	446.75	446.90
G 12.5	435.81	436.36	437.11	438.40	439.59	440.61	440.84
G 15.0	426.72	427.17	428.32	430.09	431.80	433.17	433.51
G 17.5	415.85	416.43	417.92	420.14	422.45	424.19	424.72
G 20.0	403.55	404.34	406.17	409.01	411.82	414.29	414.82
G 22.5	390.05	390.94	393.14	396.59	400.01	402.98	403.81
G 25.0	375.28	376.24	378.76	382.95	386.85	390.26	391.47
G 27.5	359.09	360.61	363.41	368.29	372.90	376.94	378.03
G 30.0	342.15	343.58	346.89	352.33	357.81	362.12	364.11
G 32.5	324.77	326.37	329.82	335.72	341.69	347.03	348.44
G 35.0	306.25	308.33	311.73	318.64	324.98	330.82	332.75
G 37.5	288.06	289.58	294.08	300.61	307.83	313.86	316.30
G 40.0	269.10	271.04	275.25	282.66	289.87	297.02	298.79
G 42.5	249.92	252.37	256.28	264.10	271.63	279.10	281.03
G 45.0	231.10	233.23	237.80	245.46	253.60	260.95	263.33
G 47.5	212.45	214.99	219.25	227.32	235.17	243.13	245.58
G 50.0	193.98	196.42	200.92	209.01	217.25	225.28	227.32
G 52.5	176.39	178.81	182.85	191.45	199.59	207.25	209.77
G 55.0	158.80	161.18	165.94	173.98	182.21	189.72	192.01
G 57.5	142.17	144.91	148.63	157.16	165.03	172.42	174.33
G 60.0	126.41	128.59	132.99	140.51	148.30	155.46	157.21
G 62.5	111.41	113.67	117.28	124.89	132.36	139.04	140.48
G 65.0	96.97	99.25	102.59	109.83	116.54	123.09	123.98
G 67.5	83.85	85.63	89.04	95.08	101.83	107.01	108.46
G 70.0	70.92	72.88	75.67	81.60	86.86	92.30	92.60
G 72.5	59.24	60.90	63.45	68.53	73.27	77.89	78.15
G 75.0	48.04	49.61	51.82	56.30	60.00	64.06	63.58
G 77.5	37.95	39.08	40.72	44.43	47.61	50.94	50.17
G 80.0	27.78	28.80	30.14	33.30	35.52	38.18	37.36
G 82.5	18.84	19.54	20.51	23.00	24.88	27.01	26.07
G 85.0	9.94	11.04	11.49	13.45	14.96	16.75	16.14
G 87.5	2.89	4.40	4.01	6.40	6.23	8.24	7.63
G 90.0	0.96	1.18	1.47	2.01	2.82	3.61	3.94

**Luminaire**

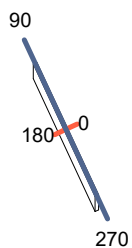
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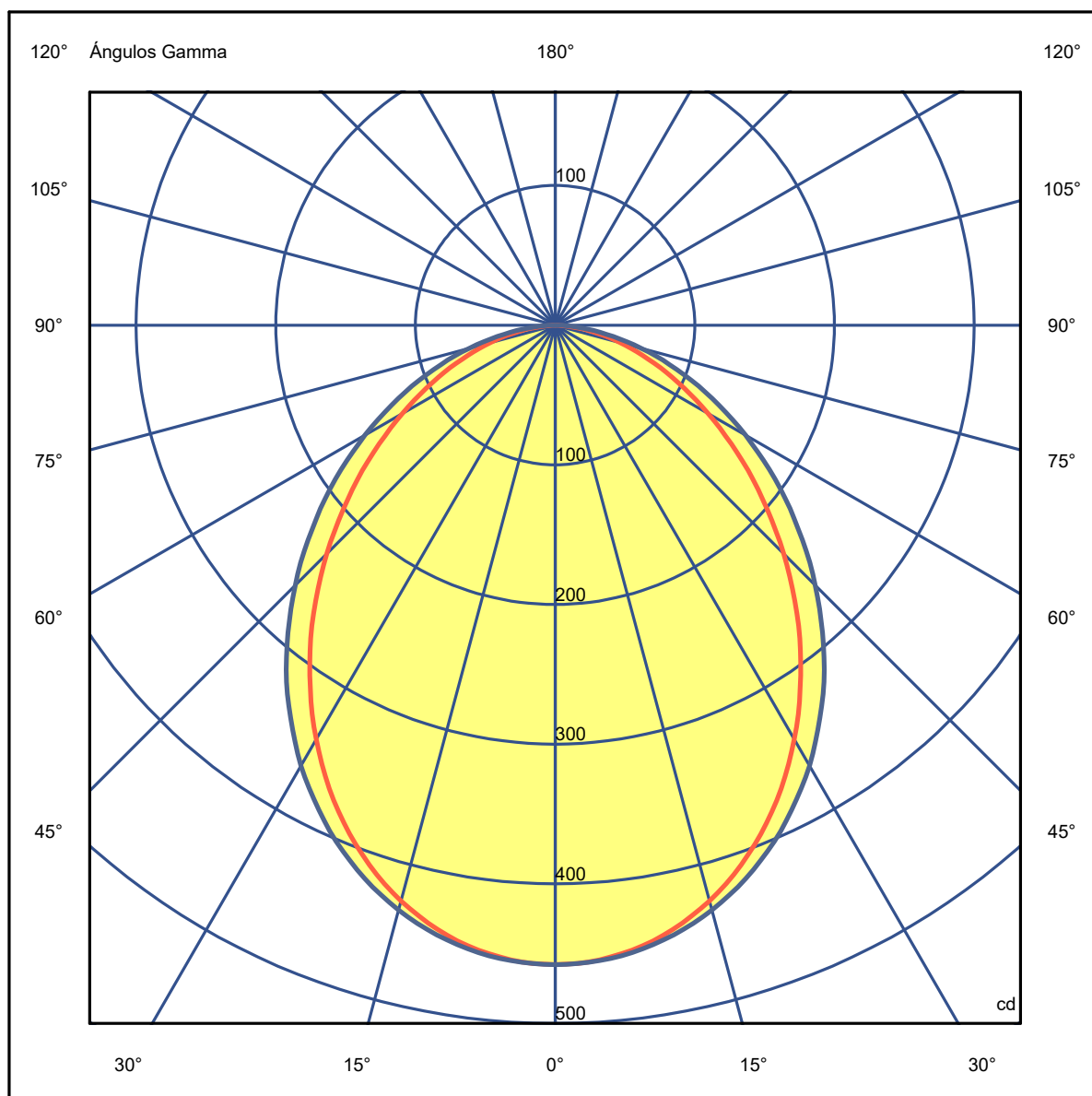
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Sources Flux	1071.98 lm	Maximum value	457.78 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

2000mm x 50mm



Semiplanos C

180.0 ————— 0.0  
270.0 ————— 90.0



**Luminaire**

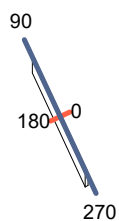
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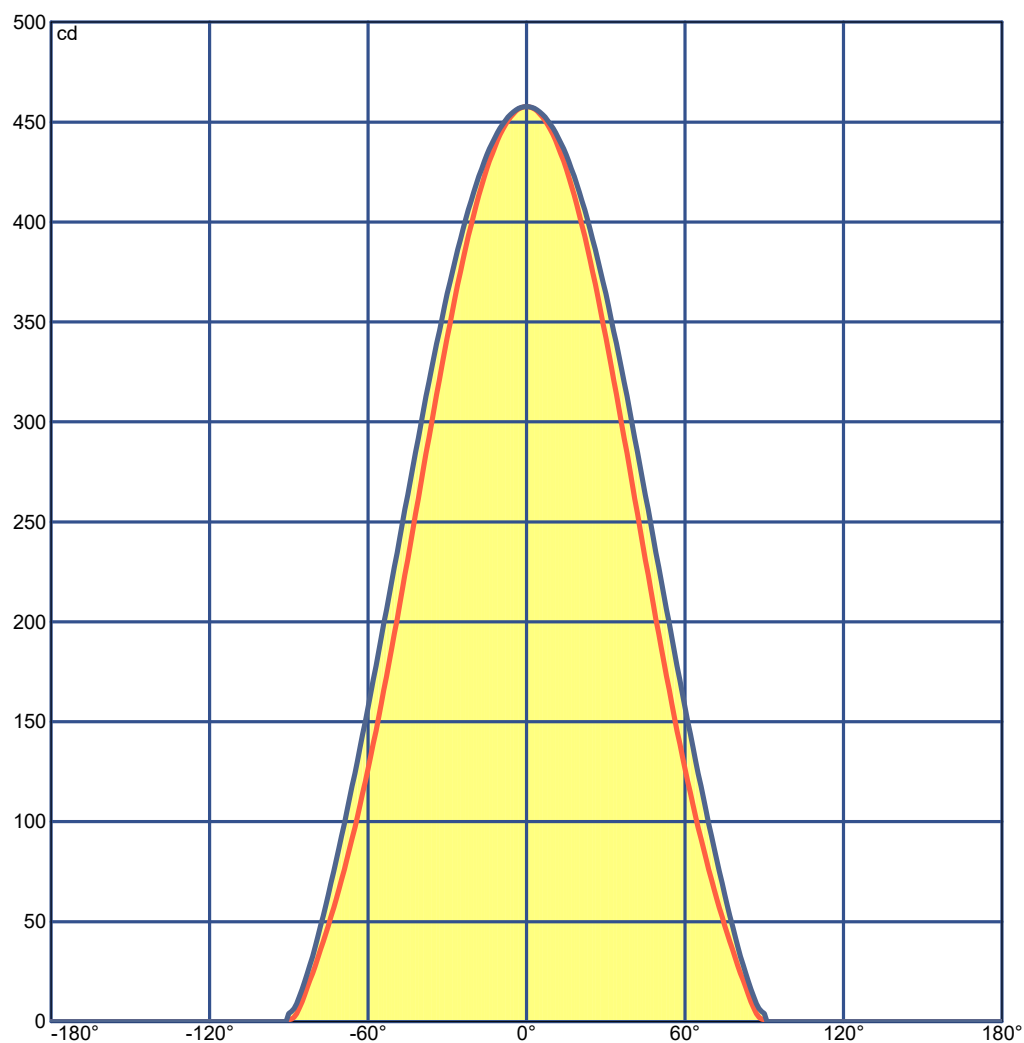
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2000mm x 50mm



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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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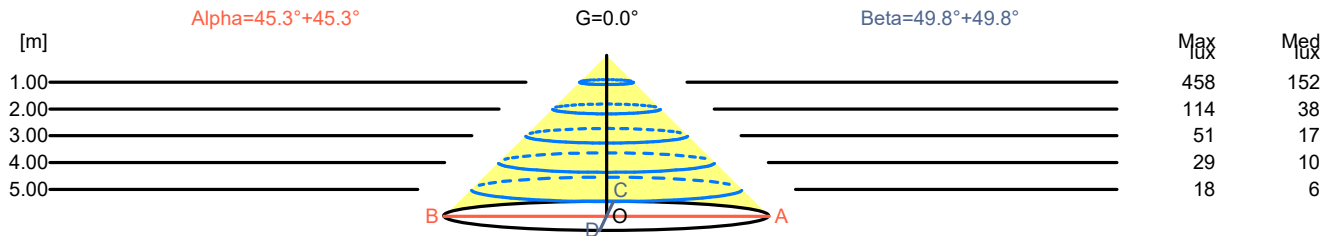
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Sources Flux	1071.98 lm	Maximum value	457.78 cd	Position	C=0.00 G=0.00	CG Double Symmetrical	

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	457.78	454.13	426.72	375.28	306.25	231.10	158.80	96.97	48.04	9.94
OB	457.78	454.13	426.72	375.28	306.25	231.10	158.80	96.97	48.04	9.94
OC	457.78	455.04	433.51	391.47	332.75	263.33	192.01	123.98	63.58	16.14
OD	457.78	455.04	433.51	391.47	332.75	263.33	192.01	123.98	63.58	16.14



H[m]	D[m]	Max lux	Med lux	Alpha=45.3°+45.3°	G=0.0	
1.00	2.02	458	152			
2.00	4.04	114	38			
3.00	6.06	51	17			
4.00	8.08	29	10			
5.00	10.10	18	6			

H[m]	D[m]	Max lux	Med lux	Beta=49.8°+49.8°	G=0.0	
1.00	2.37	458	152			
2.00	4.73	114	38			
3.00	7.10	51	17			
4.00	9.46	29	10			
5.00	11.83	18	6			

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Flujo Total=1071.98 Flujo Luminaria=1071.98

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

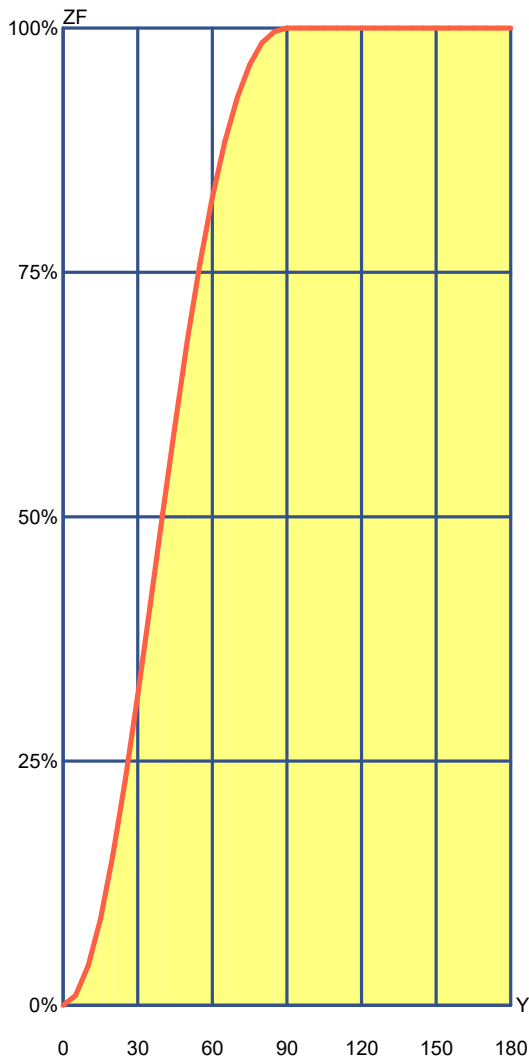
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	40	153	318	503	681	827	929	985	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

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

