

**Luminaire**

Code 4670  
Name Dots pared

**Measurem.**

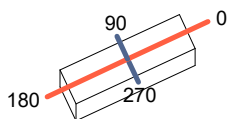
Code CL252A21F010G  
Name Dots pared

Luminaire Flux	210.61 lm	Luminaire Power	8.03 W	Efficacy	26.23 lm/W	Efficiency	100.00%
Sources Flux	210.61 lm	Maximum value	135.07 cd	Position	C=90.00 G=25.00	CG	Sym. on planes 270-90
Rectangular Luminaire Round Luminous Area		Length Diam.	50 mm 10 mm	Width Height	175 mm 0 mm	Height	175 mm
Horizontal Luminous Area Emitting area on Plane 0° Emitting area on Plane 90°		0.000079 m2 0.000000 m2 0.000000 m2		Emitting area on Plane 180° Emitting area on Plane 270° Glare area at 76°		0.000000 m2 0.000000 m2 0.000019 m2	
Coordinate system Date Measurement Distance		CG 09-03-2021 6.44		Symmetry Type Maximum Gamma Angle Measurement Flux		Sym. on planes 270-90 180 210.61 lm	
Operator Temperature Humidity Notes		Asselum 25.00 °C RM21022605.2		Rated Voltage Rated Current Photocell		230.10 V 0.04 A Prc	

Luminaire Sources						
Line		Code LED	Name LED	Flux [lm] 210.61	Pow. [W] 8.03	Q.ty 1
C.I.E. F UTE	51 79 94 97 100 0.97 D + 0.03 T		D DIN 5040 B NBN	A41 BZ 4		

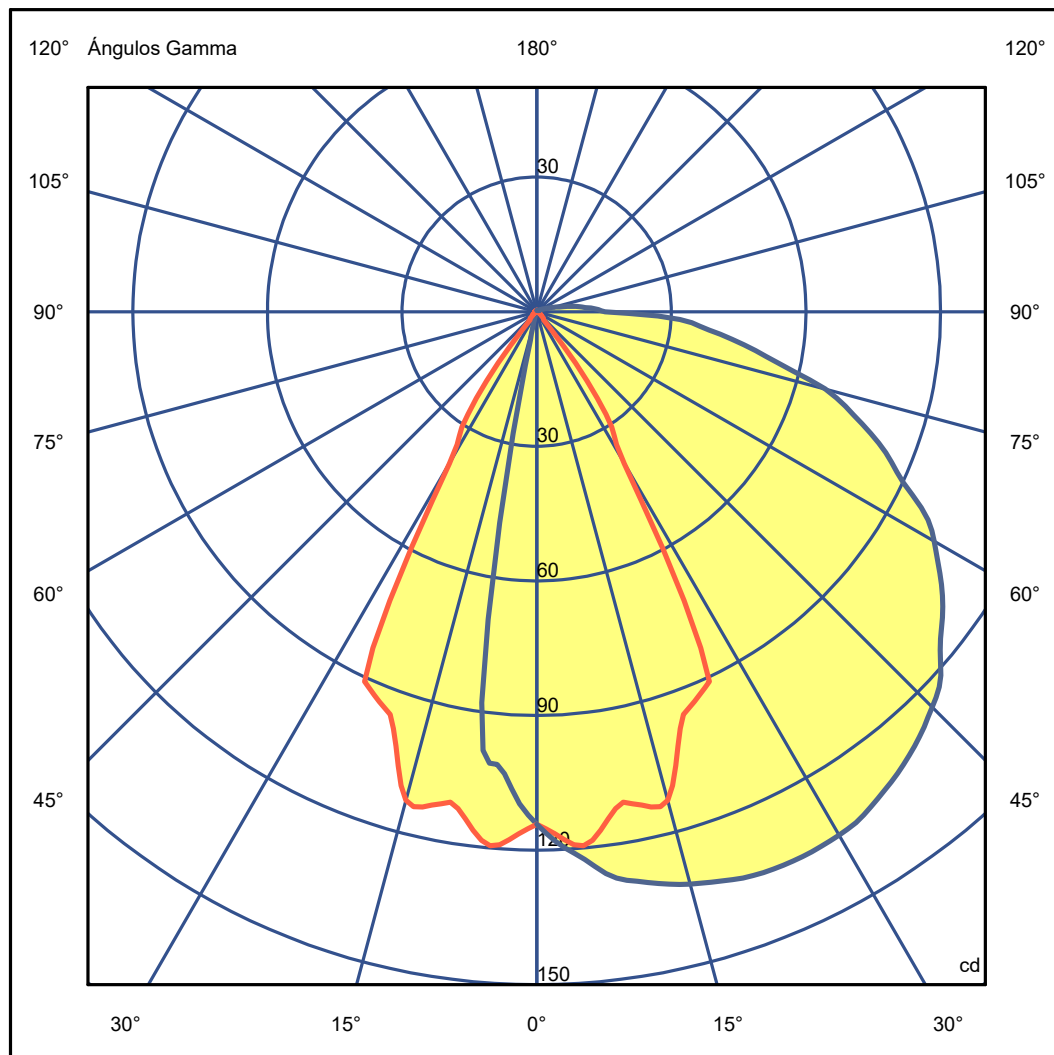


50mm x 175mm

**Semiplanos C**

270.0 —  
180.0 — 0.0  
— 90.0

ULOR 2.57 %  
DLOR 97.43 %  
RN 2.57 %



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Sources Flux		210.61 lm		Maximum value		135.07 cd		Position		C=90.00 G=25.00		CG		Sym. on planes 270-90	
Luminous Intensity Table cd														Table 1/1	
C 270.00		C 285.00	C 300.00	C 315.00	C 330.00	C 345.00	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00		
G 0.0	114.22	114.22	114.22	114.22	114.22	114.22	114.22	114.22	114.22	114.22	114.22	114.22	114.22	114.22	114.22
G 2.5	108.25	108.76	110.02	111.73	113.57	115.42	117.07	118.16	118.76	119.02	119.05	118.97	118.89	118.89	118.89
G 5.0	101.25	103.11	106.99	110.79	113.66	116.19	119.45	121.56	123.15	124.26	123.89	123.00	122.50	122.50	122.50
G 7.5	94.46	97.47	103.66	106.64	108.25	111.07	115.27	119.19	123.64	126.57	127.79	127.43	126.88	126.88	126.88
G 10.0	47.75	78.77	97.01	92.47	96.94	104.81	111.01	116.34	121.51	126.48	129.50	129.62	128.89	128.89	128.89
G 12.5	7.17	53.30	79.39	53.93	90.38	103.41	112.77	117.96	121.85	126.16	130.16	131.34	130.61	130.61	130.61
G 15.0	3.67	12.06	29.63	22.81	83.48	101.89	112.71	119.18	124.19	126.98	130.55	132.78	132.05	132.05	132.05
G 17.5	1.84	4.52	3.70	12.82	67.76	82.09	103.69	114.75	124.37	128.47	130.86	133.80	133.15	133.15	133.15
G 20.0	1.28	2.18	1.74	7.26	31.39	53.41	95.51	110.35	121.82	129.31	131.31	134.26	134.31	134.31	134.31
G 22.5	0.89	1.39	1.19	3.71	5.69	45.87	93.24	111.22	119.57	128.14	131.71	134.32	134.86	134.86	134.86
G 25.0	0.55	0.92	1.04	1.69	2.80	42.46	90.91	110.61	119.62	126.48	131.70	134.18	135.07	135.07	135.07
G 27.5	0.37	0.59	0.88	0.96	2.42	27.27	65.98	101.32	119.10	125.38	131.14	133.87	135.01	135.01	135.01
G 30.0	0.27	0.35	0.65	0.84	1.73	7.14	39.00	91.64	114.47	125.00	130.06	133.31	134.68	134.68	134.68
G 32.5	0.22	0.27	0.44	0.78	1.12	2.29	31.77	81.73	109.75	123.44	128.76	132.53	134.02	134.02	134.02
G 35.0	0.20	0.24	0.30	0.59	0.84	2.00	23.52	72.76	107.60	120.88	127.59	131.49	132.43	132.43	132.43
G 37.5	0.21	0.22	0.25	0.42	0.81	1.65	11.89	60.37	105.39	117.85	125.82	129.37	130.92	130.92	130.92
G 40.0	0.18	0.21	0.26	0.33	0.77	1.22	2.35	44.05	98.14	115.24	122.57	126.94	129.08	129.08	129.08
G 42.5	0.18	0.19	0.26	0.34	0.58	1.02	2.24	30.19	87.11	112.18	118.93	123.15	127.01	127.01	127.01
G 45.0	0.18	0.20	0.24	0.35	0.47	0.98	2.14	17.20	79.42	107.51	115.74	119.05	124.60	124.60	124.60
G 47.5	0.18	0.20	0.22	0.32	0.47	0.90	1.68	8.98	69.09	102.22	113.41	115.95	121.95	121.95	121.95
G 50.0	0.18	0.17	0.22	0.30	0.47	0.69	1.22	4.36	58.90	98.16	110.14	113.75	117.34	117.34	117.34
G 52.5	0.18	0.17	0.25	0.30	0.41	0.62	1.17	2.82	47.92	93.60	104.02	110.68	113.83	113.83	113.83
G 55.0	0.18	0.20	0.25	0.30	0.38	0.62	1.12	2.67	35.51	86.32	98.23	107.40	110.36	110.36	110.36
G 57.5	0.18	0.20	0.27	0.30	0.39	0.59	0.94	2.29	28.85	78.54	94.72	101.53	106.22	106.22	106.22
G 60.0	0.18	0.20	0.27	0.31	0.40	0.51	0.75	1.81	20.62	71.00	90.18	94.33	102.22	102.22	102.22
G 62.5	0.18	0.20	0.27	0.32	0.37	0.48	0.67	1.62	8.71	63.01	82.13	89.55	97.55	97.55	97.55
G 65.0	0.20	0.20	0.27	0.33	0.36	0.47	0.66	1.57	5.04	51.38	75.64	87.06	90.17	90.17	90.17
G 67.5	0.22	0.21	0.28	0.33	0.38	0.46	0.59	1.42	4.61	36.60	70.56	80.29	84.90	84.90	84.90
G 70.0	0.22	0.24	0.30	0.33	0.38	0.45	0.51	1.19	3.78	30.58	61.56	70.06	79.15	79.15	79.15
G 72.5	0.22	0.24	0.32	0.34	0.38	0.43	0.50	1.14	2.76	22.60	53.92	67.26	73.04	73.04	73.04
G 75.0	0.22	0.25	0.32	0.34	0.39	0.42	0.49	1.17	2.64	10.54	47.85	56.94	66.53	66.53	66.53
G 77.5	0.22	0.27	0.33	0.36	0.40	0.41	0.47	1.08	2.56	7.86	38.23	52.54	56.71	56.71	56.71
G 80.0	0.22	0.29	0.32	0.38	0.38	0.40	0.44	0.89	2.16	7.17	27.23	42.13	49.49	49.49	49.49
G 82.5	0.27	0.29	0.34	0.36	0.38	0.40	0.43	0.86	1.93	5.01	22.06	36.90	42.56	42.56	42.56
G 85.0	0.27	0.30	0.33	0.36	0.38	0.40	0.44	0.91	1.92	4.28	11.69	30.94	36.42	36.42	36.42
G 87.5	0.27	0.29	0.31	0.35	0.38	0.42	0.47	0.90	1.84	4.00	10.31	22.08	29.81	29.81	29.81
G 90.0	0.30	0.29	0.27	0.31	0.38	0.47	0.49	0.83	1.63	3.26	8.02	14.72	15.18	15.18	15.18
G 92.5	0.27	0.31	0.29	0.30	0.34	0.39	0.42	0.69	1.32	2.53	5.34	11.12	13.29	13.29	13.29
G 95.0	0.27	0.31	0.31	0.30	0.31	0.33	0.36	0.60	1.18	2.33	4.82	9.30	10.91	10.91	10.91
G 97.5	0.27	0.27	0.31	0.30	0.29	0.33	0.36	0.59	1.17	2.21	3.48	5.98	9.22	9.22	9.22
G100.0	0.30	0.29	0.30	0.31	0.29	0.33	0.36	0.58	1.08	1.76	3.31	4.36	6.85	6.85	6.85
G102.5	0.28	0.29	0.29	0.31	0.29	0.30	0.35	0.51	0.92	1.60	2.48	4.16	4.91	4.91	4.91
G105.0	0.31	0.29	0.29	0.29	0.30	0.29	0.33	0.46	0.86	1.47	2.28	2.82	3.98	3.98	3.98
G107.5	0.31	0.31	0.29	0.29	0.31	0.31	0.32	0.47	0.81	1.16	1.91	2.69	2.85	2.85	2.85
G110.0	0.31	0.31	0.29	0.29	0.28	0.31	0.31	0.46	0.67	1.05	1.41	1.72	2.29	2.29	2.29
G112.5	0.31	0.30	0.31	0.29	0.26	0.28	0.29	0.39	0.57	0.99	1.38	1.50	1.79	1.79	1.79
G115.0	0.31	0.31	0.31	0.29	0.26	0.26	0.27	0.35	0.55	0.91	1.07	1.34	1.50	1.50	1.50
G117.5	0.31	0.29	0.32	0.31	0.29	0.26	0.26	0.34	0.50	1.08	0.81	0.99	1.22	1.22	1.22
G120.0	0.31	0.31	0.33	0.31	0.31	0.27	0.27	0.34	0.41	1.20	0.77	0.78	1.00	1.00	1.00
G122.5	0.33	0.31	0.33	0.32	0.31	0.28	0.28	0.31	0.36	0.82	0.71	1.00	0.75	0.75	0.75
G125.0	0.36	0.33	0.35	0.33	0.31	0.29	0.28	0.28	0.35	0.41	0.69	1.51	0.66	0.66	0.66
G127.5	0.36	0.33	0.32	0.32	0.30	0.29	0.27	0.27	0.31	0.55	0.78	1.77	0.57	0.57	0.57
G130.0	0.36	0.33	0.33	0.33	0.29	0.29	0.27	0.27	0.28	0.54	1.87	0.90	0.49	0.49	0.49
G132.5	0.36	0.35	0.33	0.34	0.31	0.29	0.28	0.28	0.26	0.36	3.57	2.67	0.45	0.45	0.45
G135.0	0.36	0.36	0.33	0.36	0.33	0.29	0.29	0.27	0.27	0.28	1.89	3.71	0.40	0.40	0.40
G137.5	0.36	0.36	0.33	0.34	0.33	0.29	0.29	0.26	0.27	0.27	0.65	1.75	0.39	0.39	0.39
G140.0	0.36	0.36	0.33	0.33	0.33	0.30	0.29	0.26	0.29	0.28	0.56	0.95	0.36	0.36	0.36
G142.5	0.37	0.36	0.33	0.33	0.33	0.32	0.30	0.27	0.29	0.31	0.52	0.76	0.36	0.36	0.36
G145.0	0.38	0.36	0.34	0.33	0.33	0.33	0.31	0.28	0.29	0.40	0.43	0.55	0.36	0.36	0.36
G147.5	0.38	0.36	0.34	0.33	0.33	0.33	0.31	0.29	0.29	0.44	0.35	0.45	0.31	0.31	0.31
G150.0	0.40	0.36	0.35	0.33	0.33	0.32	0.31	0.29	0.28	0.43	0.32	0.35	0.31	0.31	0.31
G152.5	0.40	0.35	0.36	0.33	0.33	0.32	0.32	0.31	0.29	0.35	0.29	0.31	0.31	0.31	0.31
G155.0	0.36	0.37	0.36	0.34	0.33	0.33	0.33	0.31	0.29	0.31	0.29	0.30	0.30	0.30	0.30
G157.5	0.36	0.36	0.36	0.35	0.33	0.33	0.32	0.31	0.29	0.30	0.30	0.30	0.30	0.30	0.30
G160.0	0.36	0.36	0.36	0.36	0.34	0.33	0.31	0.31	0.30	0.31	0.29	0.31	0.31	0.31	0.31
G162.5	0.36	0.36	0.36	0.36	0.35	0.34	0.32	0.32	0.33	0.31	0.29	0.31	0.31	0.31	0.31
G165.0	0.36	0.36	0.36	0.36	0.36	0.35	0.33	0.33	0.31	0.31	0.32	0.33	0.31	0.31	0.31
G167.5	0.36	0.36	0.36	0.36	0.36	0.35	0.34	0.33	0.31	0.32	0.33	0.33	0.31	0.31	0.31
G170.0	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.32	0.34	0.35	0.35	0.33	0.33	0.33
G172.5	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.34	0.35	0.36	0.36	0.36	0.36	0.36
G175.0	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
G177.5	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
G180.0	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36

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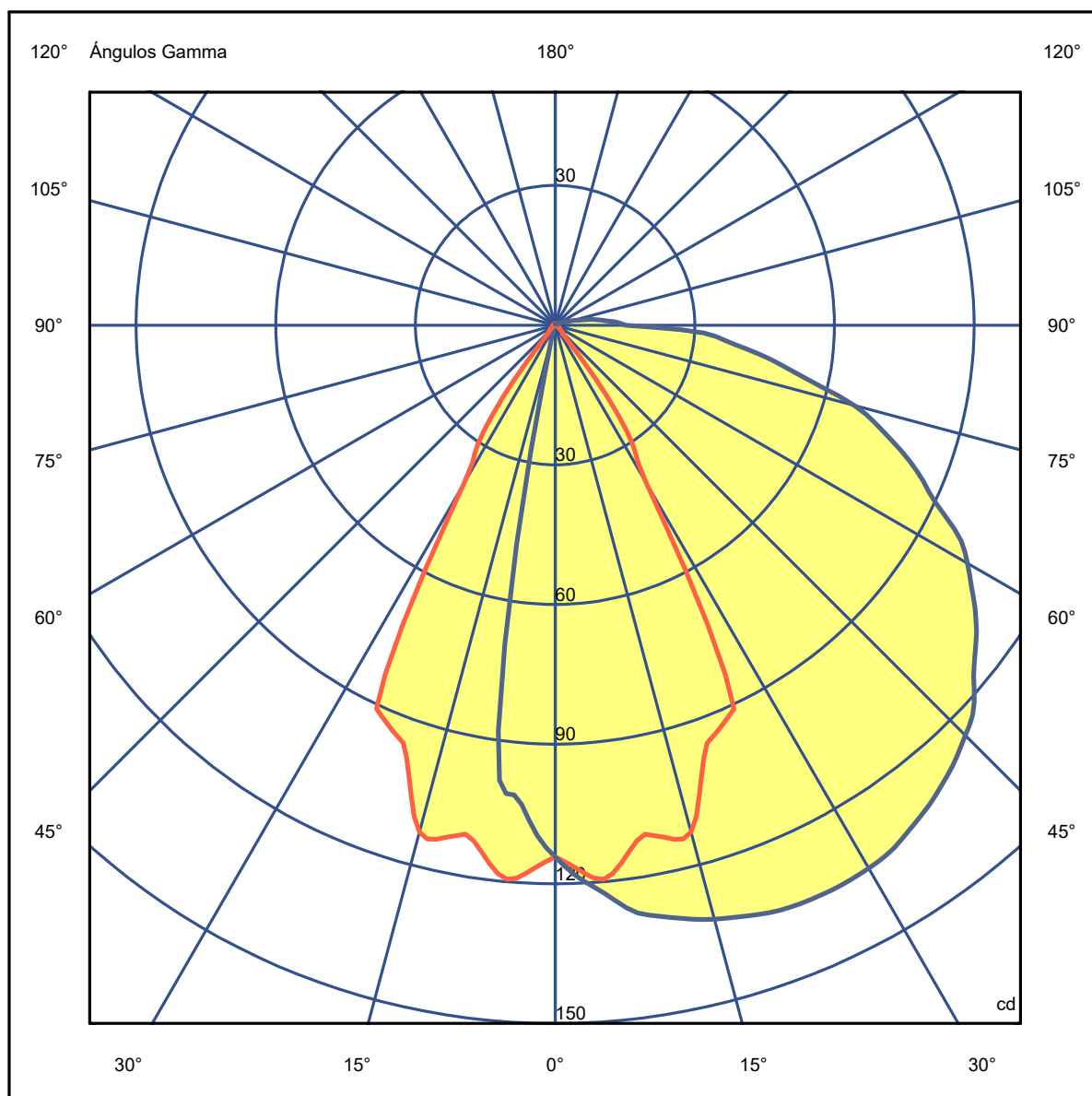
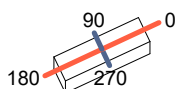
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50mm x 175mm

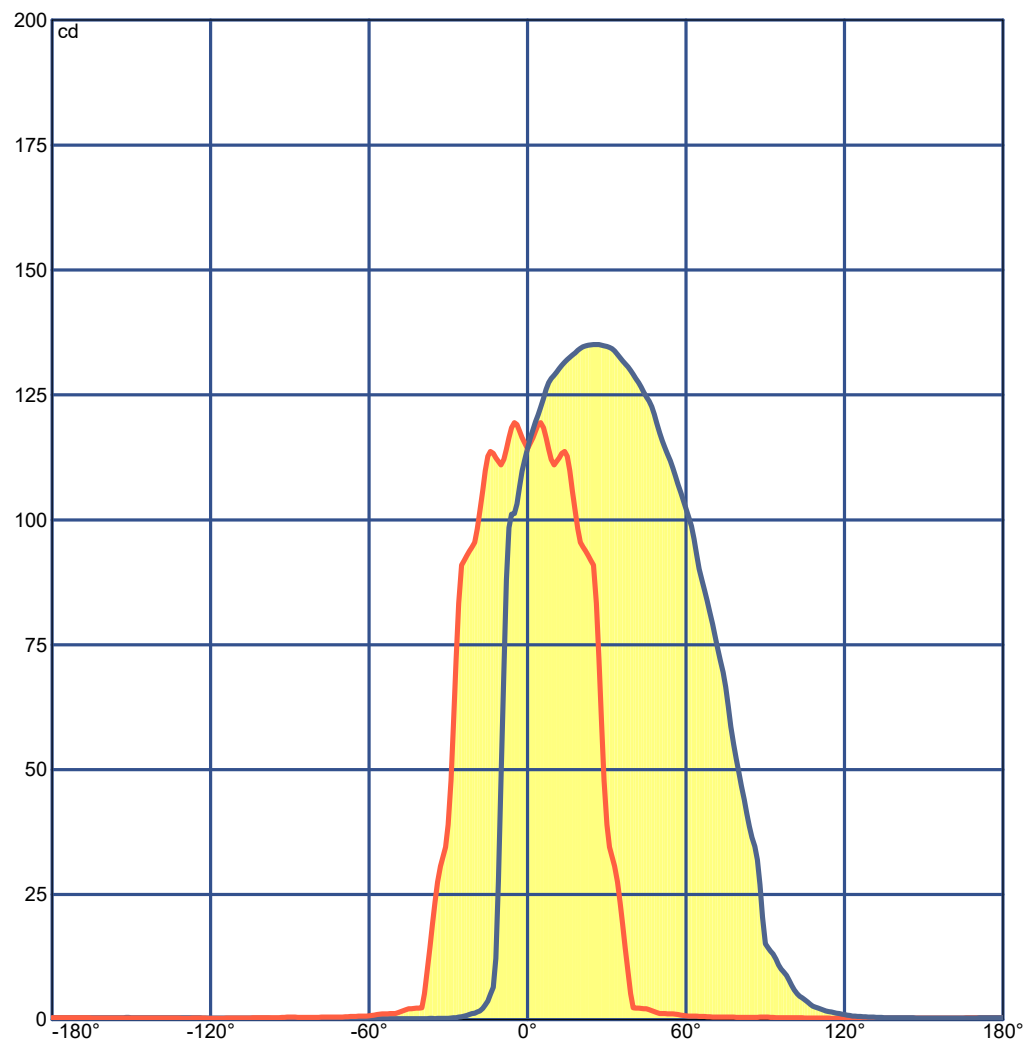
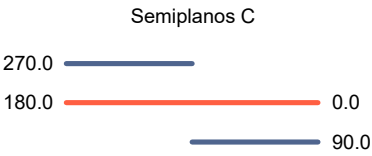
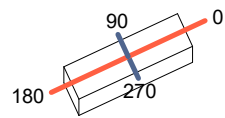
Semiplanos C



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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	32.3	33.5	32.6	33.8	34.1	0.6	1.9	0.9	2.1	2.4
x=2H y=3H	32.1	33.2	32.5	33.5	33.9	4.1	5.2	4.4	5.5	5.8
x=2H y=4H	32.0	33.1	32.4	33.4	33.8	6.1	7.1	6.5	7.5	7.8
x=2H y=6H	32.0	32.9	32.3	33.3	33.6	8.4	9.4	8.8	9.8	10.1
x=2H y=8H	31.9	32.9	32.3	33.2	33.6	9.9	10.8	10.3	11.2	11.6
x=2H y=12H	31.9	32.8	32.3	33.2	33.6	11.5	12.4	11.9	12.8	13.1
x=4H y=2H	35.3	36.4	35.7	36.7	37.0	3.0	4.1	3.4	4.4	4.8
x=4H y=3H	35.2	36.1	35.6	36.5	36.9	6.5	7.4	6.9	7.8	8.2
x=4H y=4H	35.2	36.0	35.6	36.4	36.8	8.6	9.4	9.0	9.8	10.2
x=4H y=6H	35.1	35.8	35.6	36.2	36.7	10.9	11.6	11.3	12.0	12.5
x=4H y=8H	35.1	35.7	35.5	36.2	36.6	12.3	12.9	12.7	13.3	13.8
x=4H y=12H	35.0	35.6	35.5	36.1	36.6	13.8	14.4	14.3	14.9	15.4
x=8H y=4H	36.7	37.3	37.2	37.8	38.3	10.1	10.7	10.6	11.2	11.7
x=8H y=6H	36.6	37.2	37.1	37.7	38.2	12.6	13.2	13.1	13.7	14.2
x=8H y=8H	36.6	37.1	37.1	37.6	38.1	14.1	14.6	14.6	15.1	15.6
x=8H y=12H	36.6	37.0	37.1	37.5	38.1	15.8	16.2	16.3	16.7	17.3
x=12H y=4H	41.7	42.3	42.2	42.7	43.2	12.6	13.2	13.1	13.6	14.1
x=12H y=6H	41.6	42.1	42.1	42.6	43.1	14.3	14.8	14.8	15.3	15.8
x=12H y=8H	41.6	42.0	42.1	42.5	43.1	15.5	16.0	16.1	16.5	17.0

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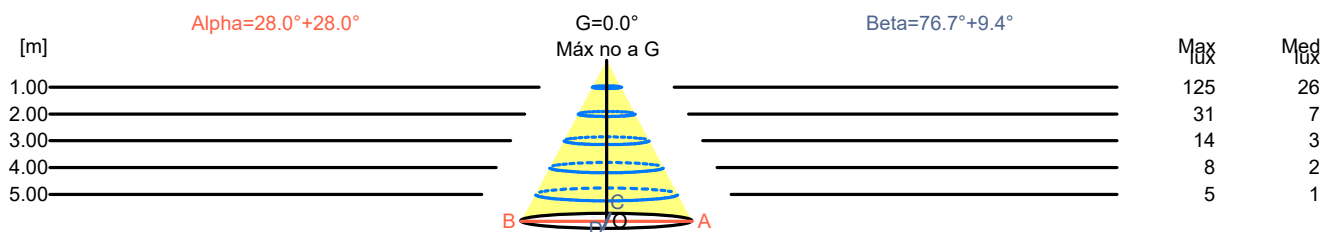
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Width at 50.00 % of Max Intensity

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	0.53	1.06	1.59	2.13	2.66	OC	4.24	8.48	12.72	16.96	21.20
OB	0.53	1.06	1.59	2.13	2.66	OD	0.17	0.33	0.50	0.67	0.83

Luminous Intensities [ cd]

	0	5	15	25	35	45	55	65	75	85
OA	114.22	119.45	112.71	90.91	23.52	2.14	1.12	0.66	0.49	0.44
OB	114.22	119.45	112.71	90.91	23.52	2.14	1.12	0.66	0.49	0.44
OC	114.22	122.50	132.05	135.07	132.43	124.60	110.36	90.17	66.53	36.42
OD	114.22	101.25	3.67	0.55	0.20	0.18	0.18	0.20	0.22	0.27



H[m]	D[m]	Max lux	Med lux	Alpha=28.0°+28.0°	G=0.0 Máx no a G	
1.00	1.06	125	26			
2.00	2.13	31	7			
3.00	3.19	14	3			
4.00	4.25	8	2			
5.00	5.32	5	1			

H[m]	D[m]	Max lux	Med lux	Beta=9.4°+76.7°	G=0.0 Máx no a G	
1.00	4.41	125	26			
2.00	8.81	31	7			
3.00	13.22	14	3			
4.00	17.62	8	2			
5.00	22.03	5	1			

**Luminaire**

Code 4670  
Name Dots pared

**Measurem.**

Code CL252A21F010G  
Name Dots pared

Luminaire Flux	210.61 lm	Luminaire Power	8.03 W	Efficacy	26.23 lm/W	Efficiency	100.00%
Sources Flux	210.61 lm	Maximum value	135.07 cd	Position	C=90.00 G=25.00	CG Sym. on planes 270-90	

Flujo Total=210.61 Flujo Luminaria=210.61

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	0.34	0.42	0.49	0.56	0.61	0.69	0.75	0.78	0.83	0.86	0.92	0.96
RC	4	4	4	4	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)	52	170	318	479	634	772	877	943	974	985	991	993	995	998	999	999	1000	1000

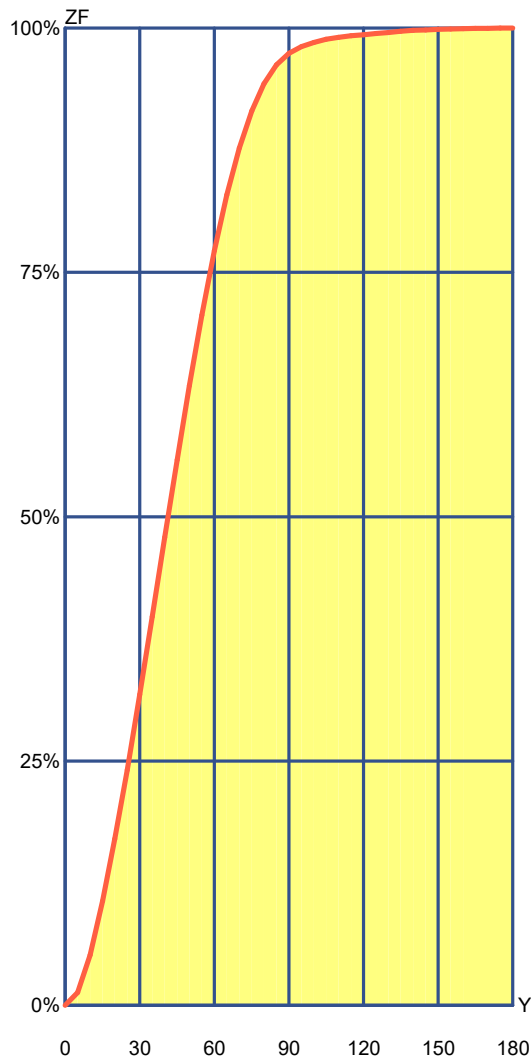
Códigos de Flujo C.I.E.

51 79 94 97 100

C.I.E.  
D DIN 5040  
F UTE  
B NBN  
RN  
BLF

4/4/4/4/5/5/5/5/5/5/5  
A41  
0.97 D + 0.03 T  
BZ 4  
2.57099 %  
1.0

LOR 100.00000 %  
ULOR 2.57099 %  
DLOR 97.42901 %  
UFF 2.57099 %  
DFF 97.42901 %  
FFR 2.63884 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	13.13	13.13	1.31 %	1.31 %
10°	38.42	51.55	3.84 %	5.15 %
15°	55.32	106.86	5.53 %	10.69 %
20°	63.37	170.24	6.34 %	17.02 %
25°	70.58	240.81	7.06 %	24.08 %
30°	77.37	318.18	7.74 %	31.82 %
35°	79.35	397.53	7.94 %	39.75 %
40°	81.46	478.99	8.15 %	47.90 %
45°	79.14	558.13	7.91 %	55.81 %
50°	75.98	634.11	7.60 %	63.41 %
55°	71.94	706.05	7.19 %	70.60 %
60°	65.98	772.02	6.60 %	77.20 %
65°	57.30	829.32	5.73 %	82.93 %
70°	47.75	877.08	4.78 %	87.71 %
75°	38.09	915.16	3.81 %	91.52 %
80°	27.90	943.07	2.79 %	94.31 %
85°	19.22	962.29	1.92 %	96.23 %
90°	12.00	974.29	1.20 %	97.43 %
95°	6.71	981.00	0.67 %	98.10 %
100°	4.43	985.43	0.44 %	98.54 %
105°	3.00	988.42	0.30 %	98.84 %
110°	2.13	990.55	0.21 %	99.05 %
115°	1.53	992.08	0.15 %	99.21 %
120°	1.21	993.29	0.12 %	99.33 %
125°	1.04	994.33	0.10 %	99.43 %
130°	1.02	995.35	0.10 %	99.54 %
135°	1.35	996.70	0.13 %	99.67 %
140°	0.90	997.59	0.09 %	99.76 %
145°	0.59	998.19	0.06 %	99.82 %
150°	0.49	998.67	0.05 %	99.87 %
155°	0.40	999.07	0.04 %	99.91 %
160°	0.32	999.39	0.03 %	99.94 %
165°	0.26	999.65	0.03 %	99.96 %
170°	0.19	999.84	0.02 %	99.98 %
175°	0.12	999.96	0.01 %	100.00 %
180°	0.04	1000.00	0.00 %	100.00 %

**Luminaire**

Code 4670  
Name Dots pared

**Measurem.**

Code CL252A21F010G  
Name Dots pared

Luminaire Flux	210.61 lm	Luminaire Power	8.03 W	Efficacy	26.23 lm/W	Efficiency	100.00%
Sources Flux	210.61 lm	Maximum value	135.07 cd	Position	C=90.00 G=25.00	CG Sym. on planes 270-90	

Isolux (Floor)

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

