

Luminaire

Code 4660
Name Dots pared

Measurem.

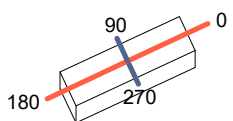
Code CL252A21F012G
Name Dots pared

Luminaire Flux	170.03 lm	Luminaire Power	7.90 W	Efficacy	21.52 lm/W	Efficiency	100.00%
Sources Flux	170.03 lm	Maximum value	201.33 cd	Position	C=90.00 G=22.50	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 10-03-2021 6.44		Symmetry Type Maximum Gamma Angle Measurement Flux	Sym. on planes 270-90 180 170.03 lm			
Operator Temperature Humidity Notes	Asselum T2 25.00 °C RM21022605.3		Rated Voltage Rated Current Photocell	230.10 V 0.04 A Prc			

Luminaire Sources						
Line	Code LED	Name LED	Flux [lm] 170.03	Pow. [W] 7.90	Q.ty 1	
C.I.E. F UTE	68 91 97 96 100 0.96 C + 0.04 T	D DIN 5040 B NBN	A51 BZ 2 / 3 / BZ 3			

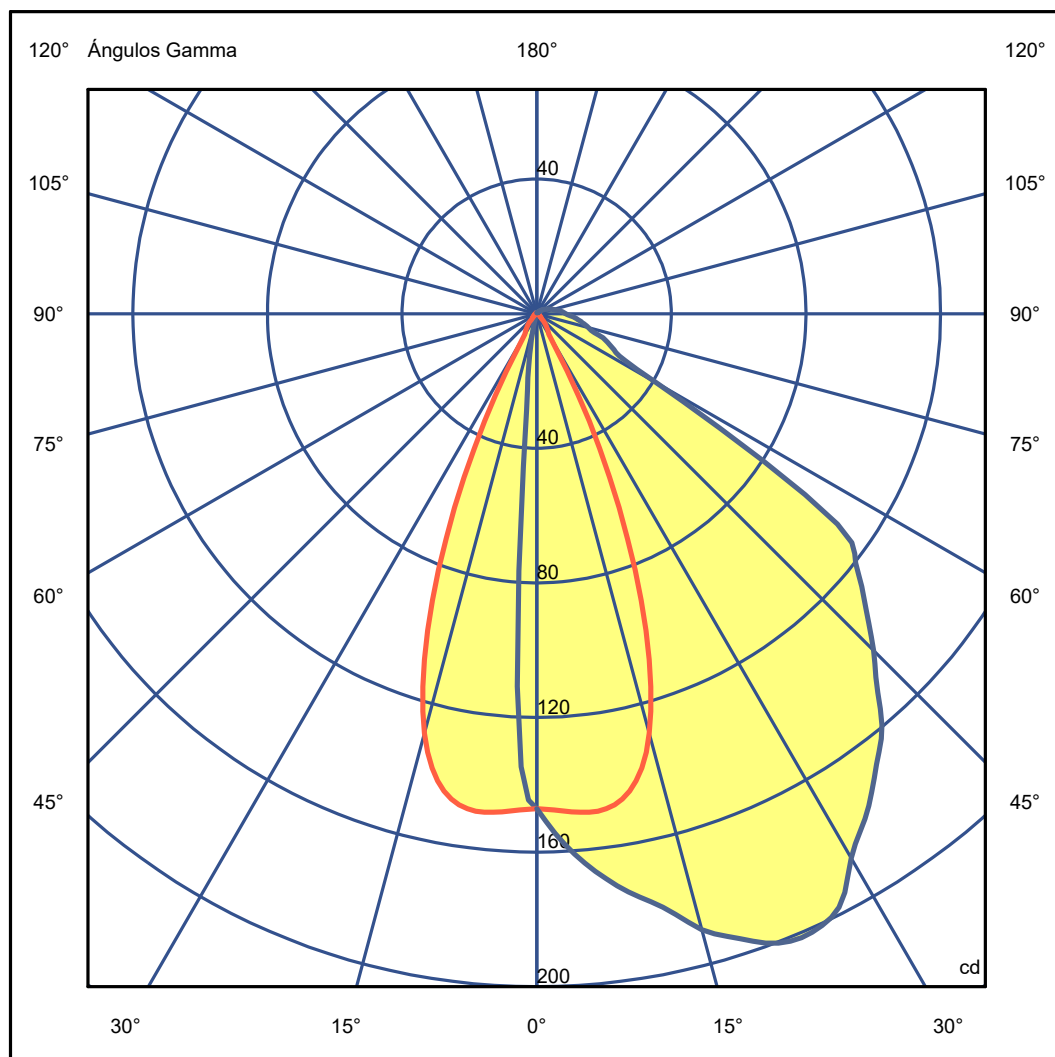


50mm x 175mm

**Semiplanos C**

270.0 —
180.0 — 0.0
— 90.0

ULOR 4.09 %
DLOR 95.91 %
RN 4.09 %



Luminaire

Code 4660

Name Dots pared

Measurement

Code CL252A21F012G

Name Dots pared

Luminaire Flux		170.03 lm		Luminaire Power		7.90 W		Efficacy		21.52 lm/W		Efficiency		100.00%	
Sources Flux		170.03 lm		Maximum value		201.33 cd		Position		C=90.00 G=22.50		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	147.04	147.04	147.04	147.04	147.04	147.04	147.04	147.04	147.04	147.04	147.04	147.04	147.04	147.04	147.04
G 2.5	124.83	125.24	126.62	128.78	133.38	140.59	147.69	151.51	153.23	154.32	155.33	155.99	156.19	156.19	156.19
G 5.0	45.62	52.99	74.30	104.38	121.40	131.90	148.71	155.52	158.90	161.92	163.26	163.77	163.85	163.85	163.85
G 7.5	20.81	21.51	26.58	45.36	96.02	120.66	148.74	158.94	165.23	168.77	170.22	170.54	170.44	170.44	170.44
G 10.0	12.06	13.31	17.38	24.55	60.75	107.08	146.40	160.68	169.72	174.57	175.94	176.00	176.00	176.00	176.00
G 12.5	7.04	7.71	10.86	17.45	38.55	91.67	140.31	159.06	171.20	177.07	179.43	181.34	181.60	181.60	181.60
G 15.0	2.85	3.88	6.41	12.10	22.56	77.88	129.10	152.20	167.90	176.41	182.78	187.25	189.43	189.43	189.43
G 17.5	1.36	1.95	3.52	6.80	16.63	65.50	111.99	138.07	159.58	174.99	186.14	192.37	194.34	194.34	194.34
G 20.0	0.47	0.86	2.02	4.76	12.17	50.69	90.62	117.68	149.35	171.79	186.18	195.53	198.97	198.97	198.97
G 22.5	0.25	0.44	1.24	3.09	7.67	32.79	67.22	93.56	138.82	165.99	184.08	196.26	201.33	201.33	201.33
G 25.0	0.22	0.29	0.73	1.98	4.02	17.42	44.02	68.16	125.87	157.20	178.75	193.72	200.62	200.62	200.62
G 27.5	0.22	0.26	0.46	1.23	2.51	7.86	23.24	44.57	111.87	146.58	171.21	188.30	196.54	196.54	196.54
G 30.0	0.21	0.23	0.32	0.76	1.52	3.28	7.18	26.30	99.88	134.92	162.65	179.83	186.81	186.81	186.81
G 32.5	0.18	0.20	0.26	0.48	0.87	2.14	6.27	19.76	86.81	123.49	154.94	171.40	180.22	180.22	180.22
G 35.0	0.18	0.21	0.23	0.35	0.62	1.78	5.42	18.61	75.58	113.95	148.23	163.06	173.47	173.47	173.47
G 37.5	0.18	0.21	0.23	0.29	0.55	1.49	4.54	18.69	65.46	105.92	139.39	155.11	166.38	166.38	166.38
G 40.0	0.18	0.21	0.23	0.28	0.50	1.25	3.66	17.18	53.99	96.69	130.95	147.67	159.51	159.51	159.51
G 42.5	0.20	0.21	0.24	0.26	0.46	1.04	2.79	13.33	41.99	85.08	121.02	139.27	149.40	149.40	149.40
G 45.0	0.18	0.22	0.23	0.28	0.44	0.87	1.91	8.13	30.37	70.97	109.09	130.90	141.56	141.56	141.56
G 47.5	0.18	0.22	0.21	0.27	0.44	0.77	1.71	5.98	19.88	56.62	95.78	121.95	133.20	133.20	133.20
G 50.0	0.18	0.22	0.22	0.27	0.42	0.69	1.51	5.65	13.85	41.99	81.67	107.85	126.03	126.03	126.03
G 52.5	0.18	0.22	0.21	0.28	0.41	0.63	1.31	5.17	12.82	28.73	65.02	88.31	119.20	119.20	119.20
G 55.0	0.22	0.22	0.21	0.29	0.40	0.57	1.11	4.54	11.29	19.19	50.34	61.45	109.03	109.03	109.03
G 57.5	0.22	0.20	0.23	0.28	0.38	0.51	0.91	3.83	9.64	16.38	36.94	38.38	71.61	71.61	71.61
G 60.0	0.22	0.21	0.25	0.28	0.37	0.45	0.71	3.07	8.15	14.41	27.03	28.95	40.59	40.59	40.59
G 62.5	0.18	0.20	0.24	0.29	0.36	0.42	0.70	2.78	6.85	13.02	20.48	24.91	28.54	28.54	28.54
G 65.0	0.18	0.20	0.25	0.29	0.36	0.40	0.69	2.73	6.32	11.72	17.20	22.93	25.26	25.26	25.26
G 67.5	0.22	0.22	0.25	0.29	0.36	0.40	0.68	2.68	6.14	10.40	15.21	21.14	23.02	23.02	23.02
G 70.0	0.20	0.21	0.26	0.29	0.37	0.40	0.67	2.62	5.88	9.66	13.71	18.44	20.92	20.92	20.92
G 72.5	0.22	0.21	0.26	0.29	0.38	0.40	0.66	2.54	5.53	8.95	12.60	16.16	17.36	17.36	17.36
G 75.0	0.22	0.22	0.27	0.30	0.38	0.40	0.65	2.47	5.12	8.30	11.80	13.97	15.94	15.94	15.94
G 77.5	0.22	0.22	0.27	0.31	0.38	0.40	0.62	2.16	4.69	7.73	10.88	12.51	14.56	14.56	14.56
G 80.0	0.22	0.22	0.26	0.30	0.37	0.39	0.59	1.92	4.17	7.13	9.97	11.83	13.32	13.32	13.32
G 82.5	0.22	0.22	0.26	0.28	0.35	0.39	0.55	1.79	3.84	6.52	9.13	11.04	12.07	12.07	12.07
G 85.0	0.22	0.22	0.25	0.26	0.33	0.38	0.52	1.73	3.63	6.07	8.42	9.95	11.01	11.01	11.01
G 87.5	0.22	0.22	0.22	0.24	0.31	0.38	0.49	1.69	3.50	5.69	7.82	9.20	9.63	9.63	9.63
G 90.0	0.22	0.22	0.20	0.22	0.29	0.38	0.45	1.65	3.38	5.32	7.24	8.73	8.62	8.62	8.62
G 92.5	0.22	0.22	0.21	0.22	0.37	0.35	0.41	1.54	3.10	4.84	6.45	7.54	8.11	8.11	8.11
G 95.0	0.22	0.22	0.23	0.23	0.43	0.32	0.38	1.40	2.79	4.33	5.69	6.73	7.43	7.43	7.43
G 97.5	0.25	0.23	0.24	0.22	0.47	0.29	0.34	1.24	2.48	3.85	5.07	6.35	6.88	6.88	6.88
G100.0	0.27	0.24	0.25	0.22	0.47	0.26	0.31	1.08	2.18	3.42	4.63	5.72	6.00	6.00	6.00
G102.5	0.27	0.24	0.26	0.43	0.43	0.24	0.27	0.94	1.93	3.08	4.32	4.94	5.52	5.52	5.52
G105.0	0.27	0.24	0.27	0.71	0.36	0.22	0.24	0.83	1.75	2.85	4.05	4.35	5.04	5.04	5.04
G107.5	0.31	0.28	0.35	0.90	0.30	0.22	0.24	0.75	1.62	2.67	3.69	4.04	4.64	4.64	4.64
G110.0	0.31	0.30	0.45	1.06	0.25	0.22	0.23	0.71	1.53	2.51	3.25	3.84	4.25	4.25	4.25
G112.5	0.31	0.31	0.46	1.23	0.23	0.21	0.23	0.69	1.45	2.32	2.80	3.53	3.85	3.85	3.85
G115.0	0.31	0.31	0.38	1.23	0.24	0.22	0.23	0.68	1.38	2.08	2.46	3.22	3.35	3.35	3.35
G117.5	0.31	0.31	0.31	1.01	0.25	0.22	0.23	0.66	1.28	1.82	2.15	2.85	3.00	3.00	3.00
G120.0	0.36	0.32	0.32	0.77	0.25	0.22	0.23	0.63	1.14	1.57	1.97	2.45	2.73	2.73	2.73
G122.5	0.36	0.32	0.36	0.61	0.25	0.23	0.23	0.59	1.00	1.37	1.83	2.15	2.46	2.46	2.46
G125.0	0.36	0.32	0.41	0.46	0.27	0.24	0.24	0.54	0.88	1.18	1.69	1.87	2.19	2.19	2.19
G127.5	0.36	0.35	0.39	0.38	0.29	0.24	0.24	0.48	0.75	1.05	1.51	1.60	1.91	1.91	1.91
G130.0	0.36	0.35	0.37	0.37	0.29	0.25	0.25	0.43	0.65	0.96	1.36	1.35	1.61	1.61	1.61
G132.5	0.36	0.36	0.34	0.35	0.29	0.26	0.26	0.37	0.58	0.87	1.20	1.11	1.44	1.44	1.44
G135.0	0.36	0.36	0.35	0.34	0.30	0.27	0.27	0.34	0.53	0.79	1.05	0.98	1.22	1.22	1.22
G137.5	0.36	0.36	0.35	0.35	0.31	0.28	0.27	0.33	0.49	0.70	0.87	0.86	1.08	1.08	1.08
G140.0	0.36	0.36	0.34	0.35	0.32	0.29	0.28	0.33	0.46	0.63	0.73	0.76	0.93	0.93	0.93
G142.5	0.36	0.36	0.34	0.36	0.34	0.30	0.29	0.32	0.43	0.56	0.59	0.64	0.73	0.73	0.73
G145.0	0.36	0.34	0.34	0.36	0.33	0.32	0.29	0.32	0.42	0.50	0.50	0.53	0.61	0.61	0.61
G147.5	0.36	0.34	0.35	0.36	0.34	0.33	0.30	0.33	0.39	0.44	0.43	0.44	0.52	0.52	0.52
G150.0	0.36	0.35	0.36	0.36	0.34	0.34	0.31	0.33	0.37	0.40	0.37	0.42	0.44	0.44	0.44
G152.5	0.36	0.36	0.36	0.37	0.35	0.34	0.32	0.34	0.35	0.36	0.33	0.36	0.38	0.38	0.38
G155.0	0.36	0.36	0.36	0.35	0.36	0.35	0.33	0.33	0.34	0.33	0.32	0.31	0.34	0.34	0.34
G157.5	0.36	0.36	0.37	0.35	0.37	0.35	0.34	0.33	0.32	0.32	0.29	0.28	0.30	0.30	0.30
G160.0	0.36	0.36	0.36	0.37	0.37	0.36	0.34	0.33	0.32	0.31	0.29	0.27	0.27	0.27	0.27
G162.5	0.36	0.36	0.37	0.38	0.38	0.37	0.35	0.34	0.33	0.31	0.31	0.30	0.28	0.28	0.28
G165.0	0.38	0.36	0.39	0.39	0.38	0.37	0.36	0.35	0.33	0.31	0.31	0.31	0.31	0.31	0.31
G167.5	0.40	0.40	0.39	0.39	0.39	0.36	0.36	0.35	0.34	0.32	0.31	0.31	0.31	0.31	0.31
G170.0	0.40	0.40	0.40	0.39	0.39	0.36	0.36	0.36	0.34	0.34	0.31	0.31	0.31	0.31	0.31
G172.5	0.40	0.40	0.40	0.40	0.38	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.33	0.33	0.33
G175.0	0.40	0.40	0.39	0.37	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	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

Luminaire

Code 4660
Name Dots pared

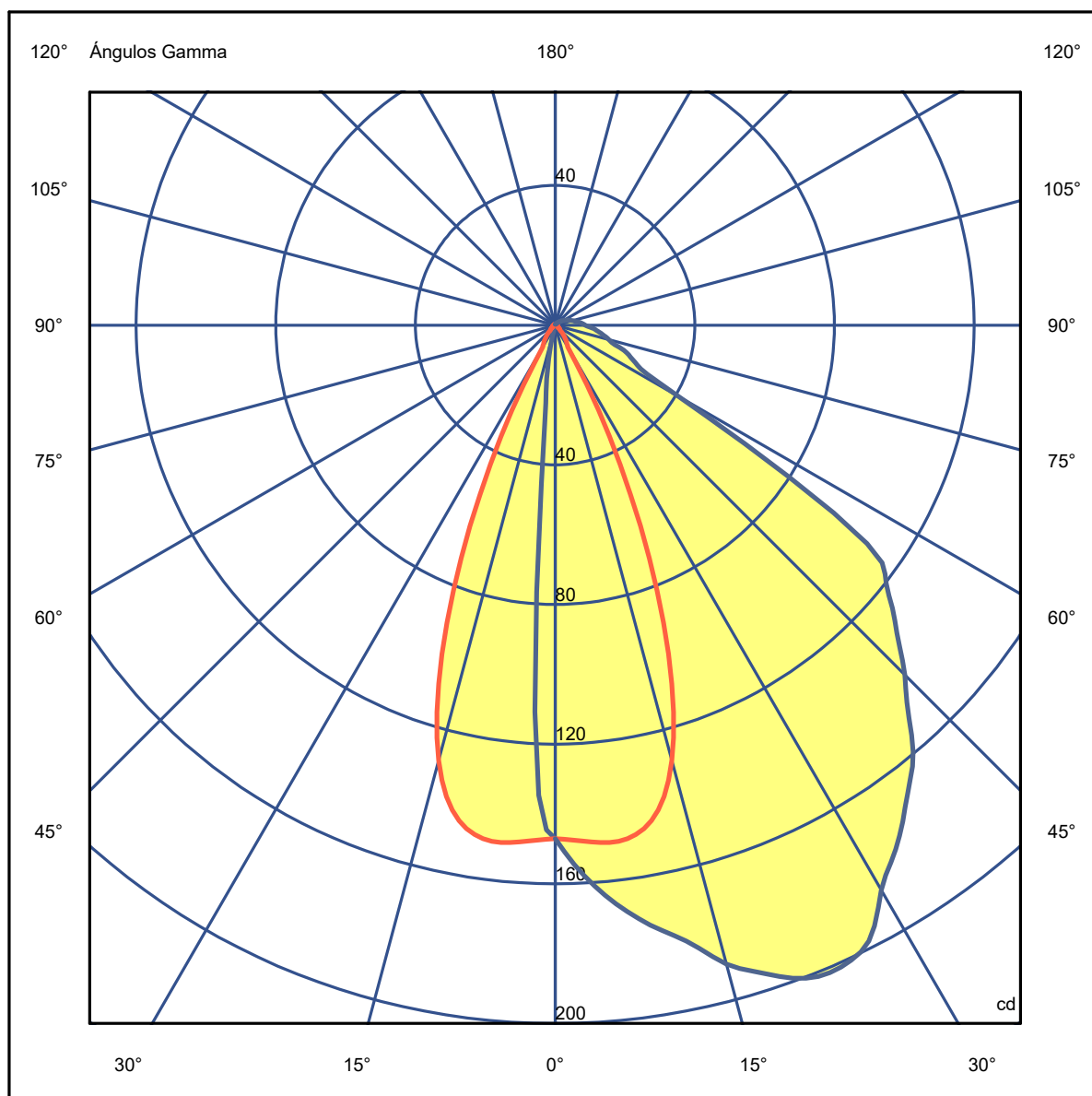
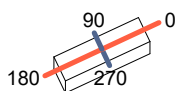
Measurem.

Code CL252A21F012G
Name Dots pared

Luminaire Flux	170.03 lm	Luminaire Power	7.90 W	Efficacy	21.52 lm/W	Efficiency	100.00%
Sources Flux	170.03 lm	Maximum value	201.33 cd	Position	C=90.00 G=22.50	CG	Sym. on planes 270-90

50mm x 175mm

Semiplanos C



Luminaire

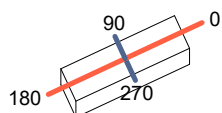
Code 4660
Name Dots pared

Measurem.

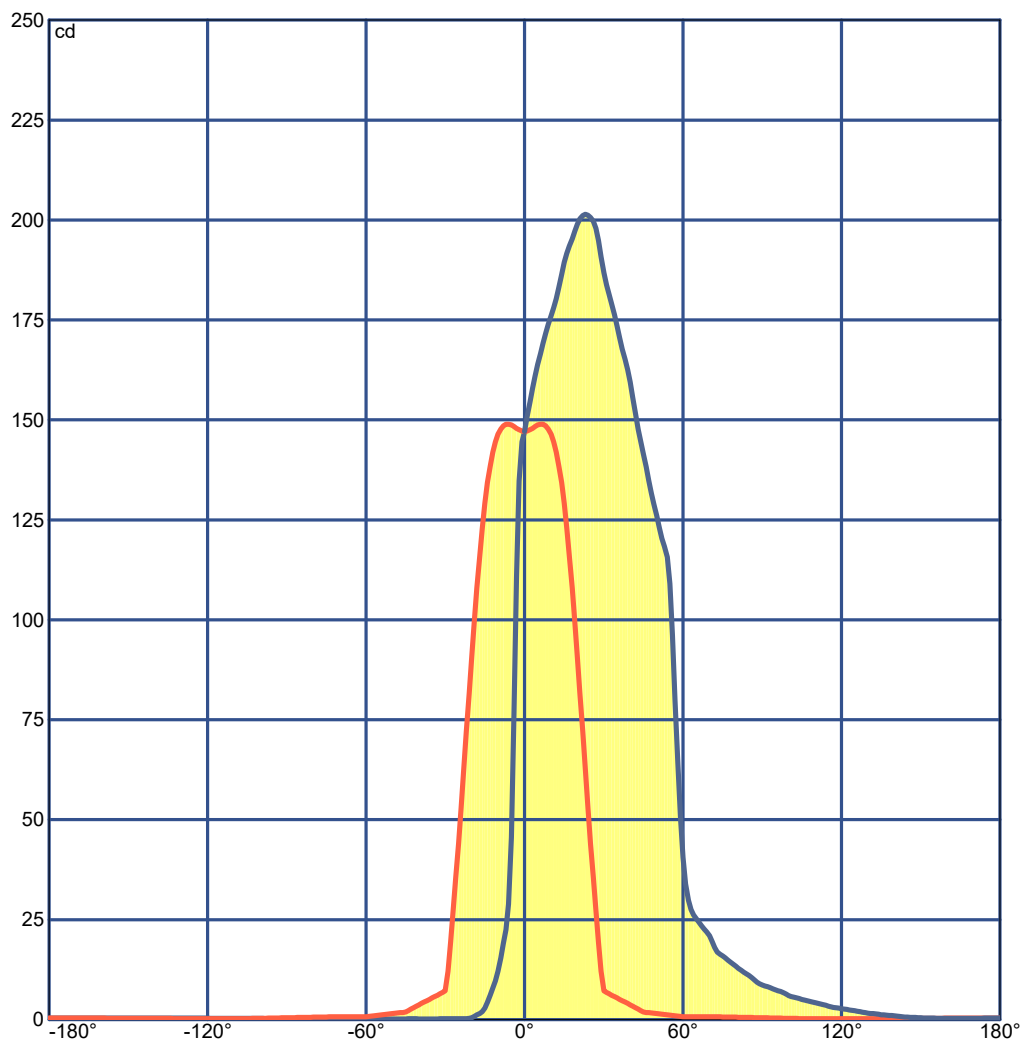
Code CL252A21F012G
Name Dots pared

Luminaire Flux	170.03 lm	Luminaire Power	7.90 W	Efficacy	21.52 lm/W	Efficiency	100.00%
Sources Flux	170.03 lm	Maximum value	201.33 cd	Position	C=90.00 G=22.50	CG	Sym. on planes 270-90

50mm x 175mm



Semiplanos C



Luminaire

Code 4660
 Name Dots pared

Measurem.

Code CL252A21F012G
 Name Dots pared

Luminaire Flux	170.03 lm	Luminaire Power	7.90 W	Efficacy	21.52 lm/W	Efficiency	100.00%
Sources Flux	170.03 lm	Maximum value	201.33 cd	Position	C=90.00 G=22.50	CG Sym. on planes 270-90	

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	28.2	29.2	28.5	29.5	29.8	1.3	2.3	1.7	2.6	2.9
x=2H y=3H	28.2	29.1	28.6	29.4	29.7	4.5	5.4	4.9	5.8	6.1
x=2H y=4H	28.2	29.0	28.6	29.4	29.7	6.5	7.3	6.9	7.7	8.0
x=2H y=6H	28.2	29.0	28.6	29.3	29.7	8.7	9.4	9.1	9.8	10.2
x=2H y=8H	28.2	29.0	28.6	29.3	29.7	9.8	10.6	10.2	11.0	11.4
x=2H y=12H	28.2	28.9	28.7	29.3	29.7	11.2	11.9	11.6	12.3	12.7
x=4H y=2H	29.5	30.4	29.9	30.7	31.1	3.4	4.3	3.8	4.6	4.9
x=4H y=3H	29.8	30.5	30.3	30.9	31.3	6.6	7.3	7.0	7.7	8.1
x=4H y=4H	30.0	30.6	30.4	31.0	31.5	8.6	9.2	9.0	9.6	10.0
x=4H y=6H	30.1	30.7	30.6	31.1	31.6	10.7	11.2	11.1	11.7	12.1
x=4H y=8H	30.2	30.7	30.7	31.1	31.6	11.8	12.3	12.3	12.8	13.3
x=4H y=12H	30.2	30.7	30.7	31.2	31.7	13.2	13.7	13.7	14.1	14.7
x=8H y=4H	31.1	31.6	31.6	32.1	32.6	10.0	10.5	10.5	11.0	11.4
x=8H y=6H	31.6	32.0	32.1	32.5	33.0	12.3	12.7	12.8	13.2	13.7
x=8H y=8H	31.8	32.1	32.3	32.7	33.2	13.6	13.9	14.1	14.5	15.0
x=8H y=12H	32.0	32.3	32.5	32.8	33.4	15.0	15.3	15.6	15.9	16.5
x=12H y=4H	34.0	34.4	34.5	34.9	35.4	12.8	13.2	13.3	13.7	14.2
x=12H y=6H	34.3	34.7	34.9	35.2	35.8	14.2	14.5	14.7	15.1	15.6
x=12H y=8H	34.5	34.8	35.1	35.4	36.0	15.2	15.5	15.7	16.0	16.6

Luminaire

Code 4660
Name Dots pared

Measurem.

Code CL252A21F012G
Name Dots pared

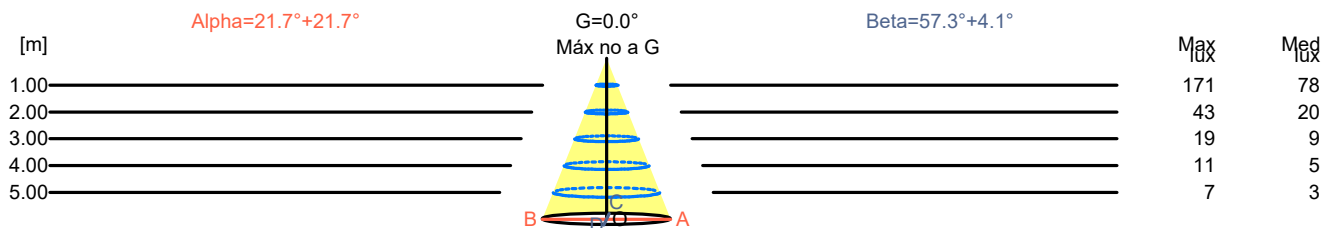
Luminaire Flux	170.03 lm	Luminaire Power	7.90 W	Efficacy	21.52 lm/W	Efficiency	100.00%
Sources Flux	170.03 lm	Maximum value	201.33 cd	Position	C=90.00 G=22.50	CG Sym. on planes	270-90

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	0.40	0.80	1.20	1.59	1.99	OC	1.56	3.12	4.68	6.24	7.80
OB	0.40	0.80	1.20	1.59	1.99	OD	0.07	0.14	0.21	0.28	0.36

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	147.04	148.71	129.10	44.02	5.42	1.91	1.11	0.69	0.65	0.52
OB	147.04	148.71	129.10	44.02	5.42	1.91	1.11	0.69	0.65	0.52
OC	147.04	163.85	189.43	200.62	173.47	141.56	109.03	25.26	15.94	11.01
OD	147.04	45.62	2.85	0.22	0.18	0.18	0.22	0.18	0.22	0.22



H[m]	D[m]	Max lux	Med lux	Alpha=21.7°+21.7°	G=0.0 Máx no a G	
1.00	0.80	171	78			
2.00	1.59	43	20			
3.00	2.39	19	9			
4.00	3.19	11	5			
5.00	3.99	7	3			

H[m]	D[m]	Max lux	Med lux	Beta=4.1°+57.3°	G=0.0 Máx no a G	
1.00	1.63	171	78			
2.00	3.26	43	20			
3.00	4.89	19	9			
4.00	6.52	11	5			
5.00	8.16	7	3			

Luminaire

Code 4660
Name Dots pared

Measurem.

Code CL252A21F012G
Name Dots pared

Luminaire Flux	170.03 lm	Luminaire Power	7.90 W	Efficacy	21.52 lm/W	Efficiency	100.00%
Sources Flux	170.03 lm	Maximum value	201.33 cd	Position	C=90.00 G=22.50	CG Sym. on planes 270-90	

Flujo Total=170.03 Flujo Luminaria=170.03

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	0.46	0.54	0.61	0.67	0.72	0.79	0.83	0.86	0.89	0.91	0.95	0.97
RC	2	2	2	2	2	2	2	2	2	2	3	3

Flujo Zonal por 1000 Lúmenes

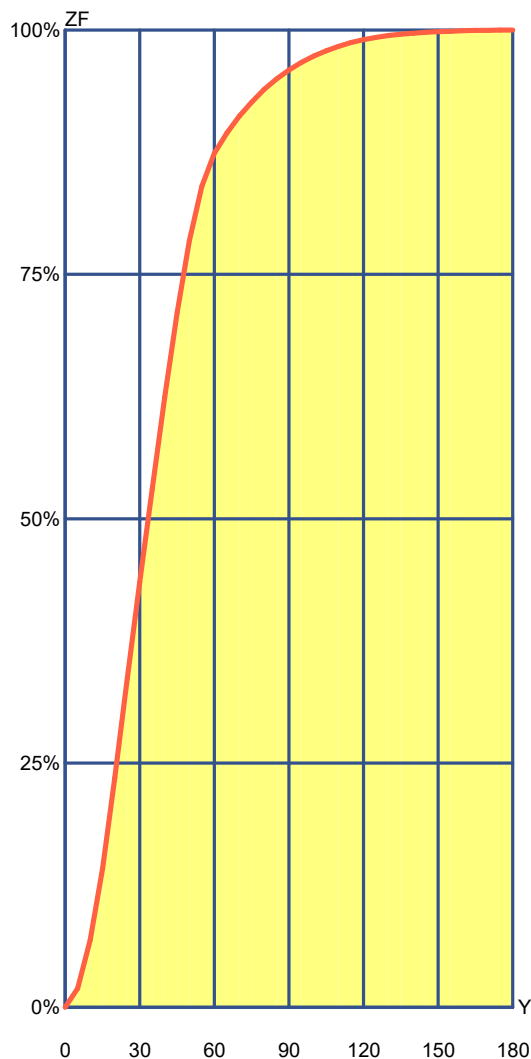
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	69	235	435	624	784	874	912	939	959	974	983	990	994	997	998	999	1000	1000

Códigos de Flujo C.I.E.

68 91 97 96 100

C.I.E. 2/2/2/2/2/2/2/2/3/3
D DIN 5040 A51
F UTE 0.96 C + 0.04 T
B NBN BZ 2 / 3 / BZ 3
RN 4.08540 %
BLF 1.0

LOR 100.00000 %
ULOR 4.08540 %
DLOR 95.91460 %
UFF 4.08540 %
DFF 95.91460 %
FFR 4.25942 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	19.40	19.40	1.94 %	1.94 %
10°	49.11	68.51	4.91 %	6.85 %
15°	73.59	142.10	7.36 %	14.21 %
20°	92.85	234.95	9.29 %	23.49 %
25°	101.47	336.42	10.15 %	33.64 %
30°	98.87	435.29	9.89 %	43.53 %
35°	95.11	530.40	9.51 %	53.04 %
40°	93.85	624.25	9.38 %	62.42 %
45°	86.90	711.14	8.69 %	71.11 %
50°	73.32	784.46	7.33 %	78.45 %
55°	55.70	840.16	5.57 %	84.02 %
60°	33.66	873.82	3.37 %	87.38 %
65°	20.79	894.62	2.08 %	89.46 %
70°	17.22	911.84	1.72 %	91.18 %
75°	14.64	926.48	1.46 %	92.65 %
80°	12.52	938.99	1.25 %	93.90 %
85°	10.81	949.80	1.08 %	94.98 %
90°	9.34	959.15	0.93 %	95.91 %
95°	7.91	967.06	0.79 %	96.71 %
100°	6.47	973.53	0.65 %	97.35 %
105°	5.27	978.81	0.53 %	97.88 %
110°	4.50	983.30	0.45 %	98.33 %
115°	3.85	987.15	0.38 %	98.71 %
120°	3.05	990.20	0.30 %	99.02 %
125°	2.35	992.55	0.24 %	99.26 %
130°	1.80	994.35	0.18 %	99.44 %
135°	1.37	995.73	0.14 %	99.57 %
140°	1.07	996.80	0.11 %	99.68 %
145°	0.83	997.63	0.08 %	99.76 %
150°	0.65	998.28	0.07 %	99.83 %
155°	0.52	998.80	0.05 %	99.88 %
160°	0.41	999.22	0.04 %	99.92 %
165°	0.33	999.55	0.03 %	99.95 %
170°	0.25	999.80	0.02 %	99.98 %
175°	0.15	999.95	0.02 %	99.99 %
180°	0.05	1000.00	0.01 %	100.00 %

Luminaire							
Code	4660						
Name	Dots pared						
Measurem.							
Code	CL252A21F012G						
Name	Dots pared						
Luminaire Flux	170.03 lm	Luminaire Power	7.90 W	Efficacy	21.52 lm/W	Efficiency	100.00%
Sources Flux	170.03 lm	Maximum value	201.33 cd	Position	C=90.00 G=22.50	CG	Sym. on planes 270-90

Isolux (Floor)

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

