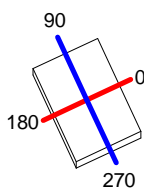


Luminaria							
Código	LAM451						
Nombre	Lamina 45						
Ensayo							
Código	CL004A19F006G						
Nombre	Lamina 45						
Flujo Luminaria	711.82 lm	Potencia luminaria	17.48 W	Eficacia	40.71 lm/W	Eficiencia	100.00%
Flujo de Lámpara	711.82 lm	Valor Máximo	170.24 cd	Posición	C=0.00 G=0.00	CG	Asimétrico
Luminaria Rectangular		Longit.	475 mm	Anchura	330 mm	Altura	30 mm
Área Luminosa Rectangular		Longit.	475 mm	Anchura	330 mm	Altura	30 mm
Área Luminosa Horizontal		0.156750 m2		Área Emisión sobre Pl. 180°		0.014250 m2	
Área Emisión sobre Pl. 0°		0.014250 m2		Área Emisión sobre Pl. 270°		0.009900 m2	
Área Emisión sobre Pl. 90°		0.009900 m2		Área de deslumbramiento a 76°		0.051748 m2	
Sist. de Coordén.		CG		Tipo de Simetría		Asimétrico	
Fecha		28-03-2019		Máximo Ángulo Gamma		180	
Distancia de Ensayo		6.44		Flujo de Ensayo		711.82 lm	
Operador		Asselum T2		Tensión Nominal		230.39 V	
Temperatura		24.90 °C		Corriente Nominal		0.11 A	
Humedad		25.70 %		Fotocélula		Prc	
Notas		RM19032505					
Lámparas de la Luminaria							
Familia		Código		Nombre		Flujo [lm]	Pot. [W]
				LED integrado custome		711.82	17.48
Cant.							1
C.I.E.	44 74 92 68 100			D DIN 5040		B31	
F UTE	0.68 E + 0.32 T			B NBN		BZ 5	



475mm x 330mm



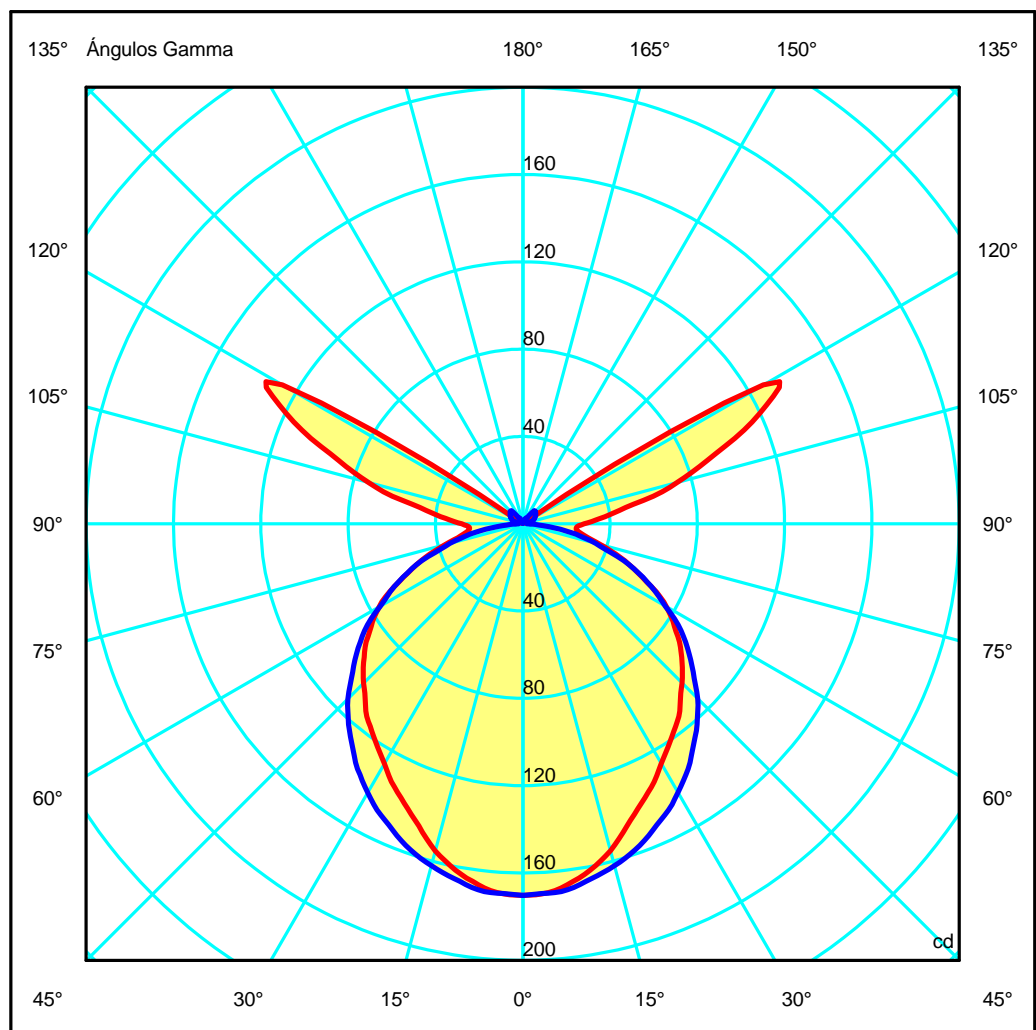
Semiplanos C

180.0 — 0.0
270.0 — 90.0

ULOR 32.04 %

DLOR 67.96 %

RN 32.04 %



Luminaria

Código LAM451
Nombre Lamina 45

Ensayo

Código CL004A19F006G
Nombre Lamina 45

Flujo Luminaria	711.82 lm		Potencia luminaria		17.48 W		Eficacia		40.71 lm/W		Eficiencia		100.00%	
Flujo de Lámpara	711.82 lm		Valor Máximo		170.24 cd		Posición		C=0.00 G=0.00		CG		Asimétrico	
Tabla de Intensidad Luminosa cd														
Tabla 1/2														
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00	C 105.00	C 120.00	C 135.00	C 150.00	C 165.00	C 180.00	
G 0.0	170	170	170	170	170	170	170	170	170	170	170	170	170	
G 2.5	170	170	169	169	170	170	170	170	170	169	169	170	170	
G 5.0	169	168	168	169	169	169	170	169	169	169	168	168	169	
G 7.5	166	166	167	167	167	168	169	168	167	167	167	166	166	
G 10.0	163	163	164	164	165	167	166	167	165	164	164	163	163	
G 12.5	159	159	161	161	163	165	164	165	163	161	161	159	159	
G 15.0	155	154	156	158	160	163	162	163	160	158	156	154	155	
G 17.5	150	150	152	154	157	160	160	160	157	154	152	150	150	
G 20.0	144	145	147	150	153	157	157	157	153	150	147	145	144	
G 22.5	140	140	142	145	149	154	153	154	149	145	142	140	140	
G 25.0	136	136	138	140	145	150	150	150	145	140	138	136	136	
G 27.5	132	131	133	136	140	146	146	146	140	136	133	131	132	
G 30.0	127	127	128	130	136	141	142	141	136	130	128	127	127	
G 32.5	123	123	124	125	131	137	138	137	131	125	124	123	123	
G 35.0	119	119	120	121	125	132	134	132	125	121	120	119	119	
G 37.5	116	115	116	116	120	127	128	127	120	116	116	115	116	
G 40.0	112	111	111	112	115	122	124	122	115	112	111	111	112	
G 42.5	107	107	107	106	110	116	119	116	110	106	107	107	107	
G 45.0	103	103	102	102	104	110	113	110	104	102	102	103	103	
G 47.5	99	98	98	97	99	105	107	105	99	97	98	98	99	
G 50.0	95	94	93	93	93	99	101	99	93	93	93	94	95	
G 52.5	91	89	89	88	88	93	96	93	88	88	89	89	91	
G 55.0	86	85	84	82	82	86	90	86	82	82	84	85	86	
G 57.5	81	80	79	77	77	80	84	80	77	77	79	80	81	
G 60.0	76	75	75	72	70	74	75	74	70	72	75	75	76	
G 62.5	70	69	69	67	65	68	69	68	65	67	69	69	70	
G 65.0	63	63	63	61	59	61	63	61	59	61	63	63	63	
G 67.5	56	57	57	55	54	54	56	54	54	55	57	57	56	
G 70.0	50	50	50	49	48	48	49	48	48	49	50	50	50	
G 72.5	43	43	44	43	42	42	41	42	42	43	44	43	43	
G 75.0	37	38	37	37	36	35	35	35	36	37	37	38	37	
G 77.5	31	35	32	32	30	29	28	29	30	32	32	35	31	
G 80.0	28	32	27	27	24	23	22	23	24	27	27	32	28	
G 82.5	26	31	24	24	20	17	16	17	20	24	24	31	26	
G 85.0	24	31	23	23	16	13	9	13	16	23	23	31	24	
G 87.5	25	32	22	23	15	11	5	11	15	23	22	32	25	
G 90.0	28	34	24	25	17	12	2	12	17	25	24	34	28	
G 92.5	33	37	30	30	21	16	2	16	21	30	30	37	33	
G 95.0	38	42	35	36	28	21	2	21	28	36	35	42	38	
G 97.5	44	49	42	43	36	29	2	29	36	43	42	49	44	
G100.0	51	56	51	51	45	43	3	43	45	51	51	56	51	
G102.5	63	65	61	62	53	55	3	55	53	62	61	65	63	
G105.0	73	76	72	71	61	61	4	61	61	71	72	76	73	
G107.5	83	86	82	79	55	62	4	62	55	79	82	86	83	
G110.0	94	99	94	85	49	64	5	64	49	85	94	99	94	
G112.5	107	110	103	69	52	64	6	64	52	69	103	110	107	
G115.0	120	120	111	60	55	62	6	62	55	60	111	120	120	
G117.5	131	106	90	41	53	62	6	62	53	41	90	106	131	
G120.0	127	47	50	36	52	61	7	61	52	36	50	47	127	
G122.5	65	48	20	34	52	59	7	59	52	34	20	48	65	
G125.0	6	30	18	34	50	56	7	56	50	34	18	30	6	
G127.5	0	2	15	33	48	53	7	53	48	33	15	2	0	
G130.0	0	2	14	31	46	50	8	50	46	31	14	2	0	
G132.5	0	1	13	29	44	46	8	46	44	29	13	1	0	
G135.0	0	1	11	27	41	42	8	42	41	27	11	1	0	
G137.5	0	1	9	24	38	39	8	39	38	24	9	1	0	
G140.0	0	1	8	22	35	35	8	35	35	22	8	1	0	
G142.5	0	1	6	19	31	28	5	28	31	19	6	1	0	
G145.0	0	1	5	16	27	21	3	21	27	16	5	1	0	
G147.5	0	1	4	13	23	16	3	16	23	13	4	1	0	
G150.0	0	1	3	10	18	12	3	12	18	10	3	1	0	
G152.5	0	1	2	7	14	8	3	8	14	7	2	1	0	
G155.0	0	0	1	5	9	5	2	5	9	5	1	0	0	
G157.5	0	0	1	3	5	3	1	3	5	3	1	0	0	
G160.0	0	0	1	2	2	1	1	1	2	2	1	0	0	
G162.5	0	0	0	1	1	1	1	1	1	1	0	0	0	
G165.0	0	0	0	1	1	0	0	0	1	1	0	0	0	
G167.5	0	0	0	0	1	0	0	0	1	0	0	0	0	
G170.0	0	0	0	0	1	0	0	0	1	0	0	0	0	
G172.5	0	0	0	1	1	0	0	0	1	1	0	0	0	
G175.0	0	0	1	1	0	0	0	0	0	1	1	0	0	
G177.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G180.0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Luminaria

Código LAM451
Nombre Lamina 45

Ensayo

Código CL004A19F006G
Nombre Lamina 45

Flujo Luminaria	711.82 lm	Potencia luminaria	17.48 W	Eficacia	40.71 lm/W	Eficiencia	100.00%
Flujo de Lámpara	711.82 lm	Valor Máximo	170.24 cd	Posición	C=0.00 G=0.00	CG	Asimétrico

Tabla de Intensidad Luminosa cd

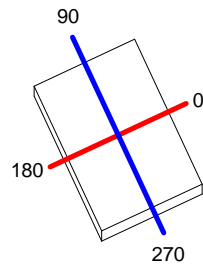
Tabla 2/2

	C 195.00	C 210.00	C 225.00	C 240.00	C 255.00	C 270.00	C 285.00	C 300.00	C 315.00	C 330.00	C 345.00
G 0.0	170	170	170	170	170	170	170	170	170	170	170
G 2.5	170	169	169	170	170	170	170	170	169	169	170
G 5.0	168	168	169	169	169	170	169	169	169	168	168
G 7.5	166	167	167	167	168	169	168	167	167	167	166
G 10.0	163	164	164	165	167	166	167	165	164	164	163
G 12.5	159	161	161	163	165	164	165	163	161	161	159
G 15.0	154	156	158	160	163	162	163	160	158	156	154
G 17.5	150	152	154	157	160	160	160	157	154	152	150
G 20.0	145	147	150	153	157	157	157	153	150	147	145
G 22.5	140	142	145	149	154	153	154	149	145	142	140
G 25.0	136	138	140	145	150	150	150	145	140	138	136
G 27.5	131	133	136	140	146	146	146	140	136	133	131
G 30.0	127	128	130	136	141	142	141	136	130	128	127
G 32.5	123	124	125	131	137	138	137	131	125	124	123
G 35.0	119	120	121	125	132	134	132	125	121	120	119
G 37.5	115	116	116	120	127	128	127	120	116	116	115
G 40.0	111	111	112	115	122	124	122	115	112	111	111
G 42.5	107	107	106	110	116	119	116	110	106	107	107
G 45.0	103	102	102	104	110	113	110	104	102	102	103
G 47.5	98	98	97	99	105	107	105	99	97	98	98
G 50.0	94	93	93	93	99	101	99	93	93	93	94
G 52.5	89	89	88	88	93	96	93	88	88	89	89
G 55.0	85	84	82	82	86	90	86	82	82	84	85
G 57.5	80	79	77	77	80	84	80	77	77	79	80
G 60.0	75	75	72	70	74	75	74	70	72	75	75
G 62.5	69	69	67	65	68	69	68	65	67	69	69
G 65.0	63	63	61	59	61	63	61	59	61	63	63
G 67.5	57	57	55	54	54	56	54	55	55	57	57
G 70.0	50	50	49	48	48	49	48	48	49	50	50
G 72.5	43	44	43	42	42	41	42	42	43	44	43
G 75.0	38	37	37	36	35	35	35	36	37	37	38
G 77.5	35	32	32	30	29	28	29	30	32	32	35
G 80.0	32	27	27	24	23	22	23	24	27	27	32
G 82.5	31	24	24	20	17	16	17	20	24	24	31
G 85.0	31	23	23	16	13	9	13	16	23	23	31
G 87.5	32	22	23	15	11	5	11	15	23	22	32
G 90.0	34	24	25	17	12	2	12	17	25	24	34
G 92.5	37	30	30	21	16	2	16	21	30	30	37
G 95.0	42	35	36	28	21	2	21	28	36	35	42
G 97.5	49	42	43	36	29	2	29	36	43	42	49
G100.0	56	51	51	45	43	3	43	45	51	51	56
G102.5	65	61	62	53	55	3	55	53	62	61	65
G105.0	76	72	71	61	61	4	61	61	71	72	76
G107.5	86	82	79	55	62	4	62	55	79	82	86
G110.0	99	94	85	49	64	5	64	49	85	94	99
G112.5	110	103	69	52	64	6	64	52	69	103	110
G115.0	120	111	60	55	62	6	62	55	60	111	120
G117.5	106	90	41	53	62	6	62	53	41	90	106
G120.0	47	50	36	52	61	7	61	52	36	50	47
G122.5	48	20	34	52	59	7	59	52	34	20	48
G125.0	30	18	34	50	56	7	56	50	34	18	30
G127.5	2	15	33	48	53	7	53	48	33	15	2
G130.0	2	14	31	46	50	8	50	46	31	14	2
G132.5	1	13	29	44	46	8	46	44	29	13	1
G135.0	1	11	27	41	42	8	42	41	27	11	1
G137.5	1	9	24	38	39	8	39	38	24	9	1
G140.0	1	8	22	35	35	8	35	35	22	8	1
G142.5	1	6	19	31	28	5	28	31	19	6	1
G145.0	1	5	16	27	21	3	21	27	16	5	1
G147.5	1	4	13	23	16	3	16	23	13	4	1
G150.0	1	3	10	18	12	3	12	18	10	3	1
G152.5	1	2	7	14	8	3	8	14	7	2	1
G155.0	0	1	5	9	5	2	5	9	5	1	0
G157.5	0	1	3	5	3	1	3	5	3	1	0
G160.0	0	1	2	2	1	1	1	2	2	1	0
G162.5	0	0	1	1	1	1	1	1	1	0	0
G165.0	0	0	1	1	0	0	0	1	1	0	0
G167.5	0	0	0	1	0	0	0	1	0	0	0
G170.0	0	0	0	1	0	0	0	1	0	0	0
G172.5	0	0	1	1	0	0	0	1	1	0	0
G175.0	0	1	1	0	0	0	0	1	1	0	0
G177.5	0	0	0	0	0	0	0	0	0	0	0
G180.0	0	0	0	0	0	0	0	0	0	0	0

Luminaria
Código LAM451
Nombre Lamina 45
Ensayo
Código CL004A19F006G
Nombre Lamina 45

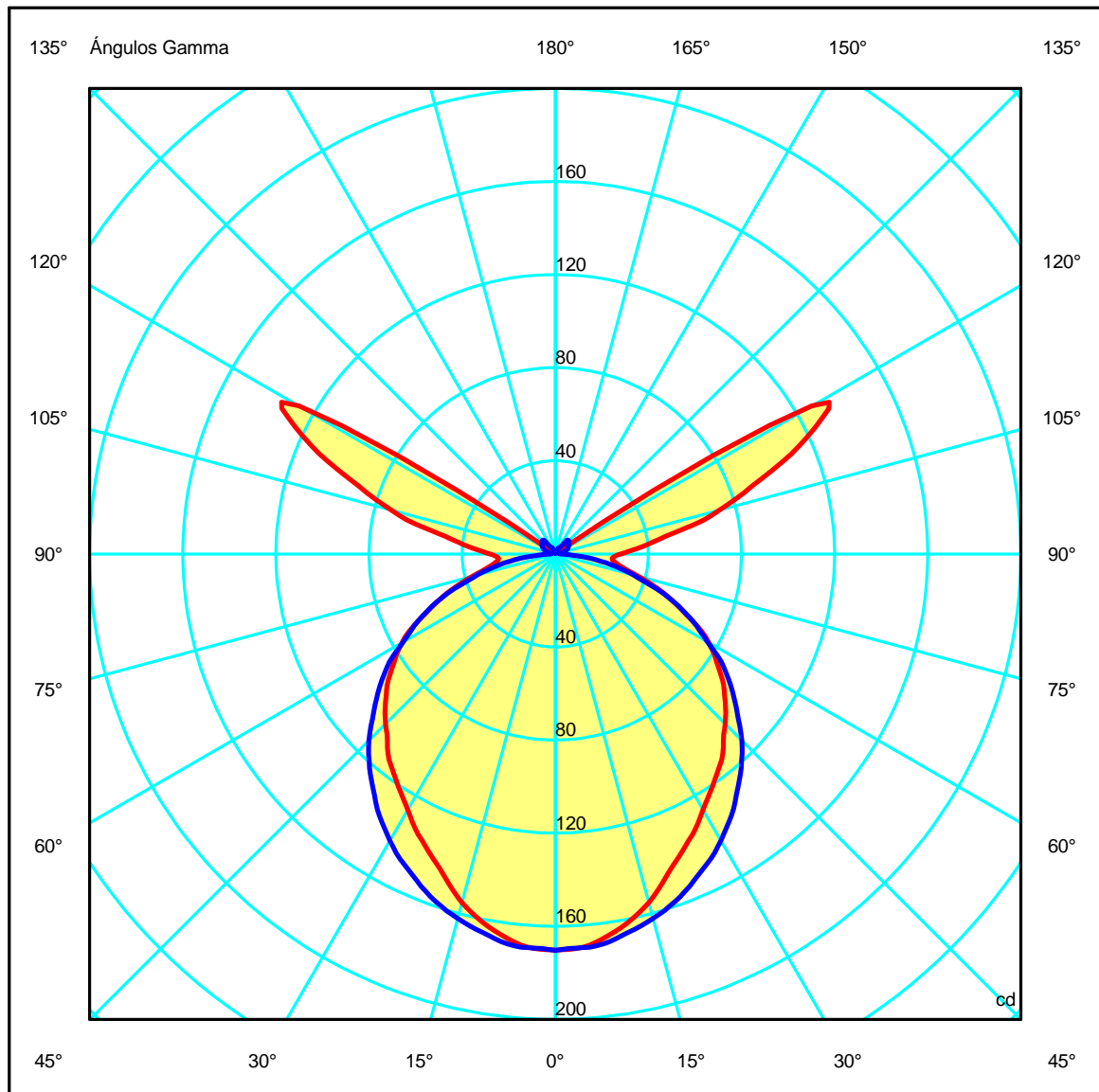
Flujo Luminaria	711.82 lm	Potencia luminaria	17.48 W	Eficacia	40.71 lm/W	Eficiencia	100.00%
Flujo de Lámpara	711.82 lm	Valor Máximo	170.24 cd	Posición	C=0.00 G=0.00	CG	Asimétrico

475mm x 330mm



Semiplanos C

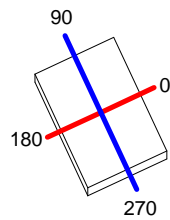
180.0 — 0.0
270.0 — 90.0



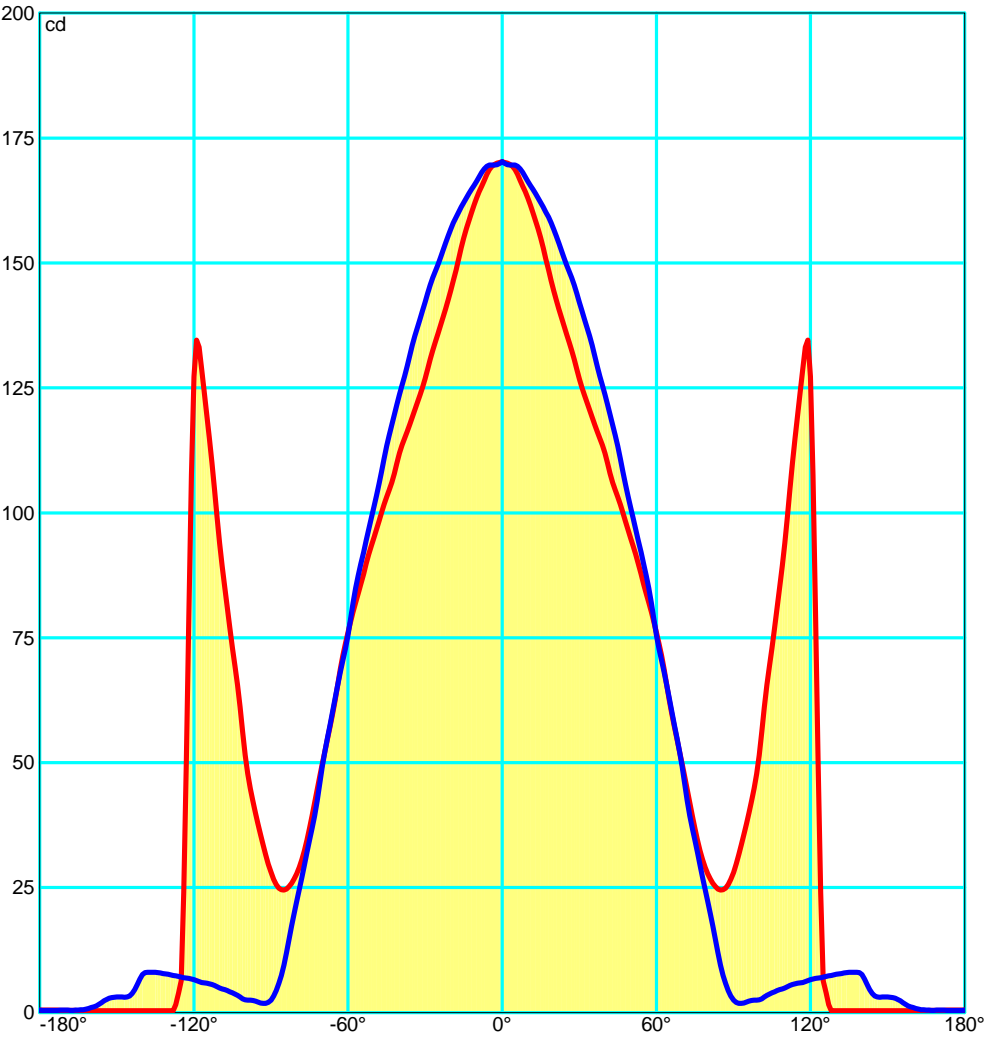
Luminaria
Código LAM451
Nombre Lamina 45
Ensayo
Código CL004A19F006G
Nombre Lamina 45

Flujo Luminaria	711.82 lm	Potencia luminaria	17.48 W	Eficacia	40.71 lm/W	Eficiencia	100.00%
Flujo de Lámpara	711.82 lm	Valor Máximo	170.24 cd	Posición	C=0.00 G=0.00	CG	Asimétrico

475mm x 330mm



Semiplanos C
180.0 ————— 0.0
270.0 ————— 90.0



Luminaria
Código LAM451
Nombre Lamina 45
Ensayo
Código CL004A19F006G
Nombre Lamina 45

Flujo Luminaria	711.82 lm	Potencia luminaria	17.48 W	Eficacia	40.71 lm/W	Eficiencia	100.00%
Flujo de Lámpara	711.82 lm	Valor Máximo	170.24 cd	Posición	C=0.00 G=0.00	CG	Asimétrico

Flujo Total=711.82 Flujo Luminaria=711.82

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	0.29	0.37	0.44	0.51	0.56	0.65	0.70	0.75	0.80	0.83	0.90	0.95
RC	5	5	5	6	6	6	6	6	6	6	6	6

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)	22	85	177	286	400	506	592	646	680	728	819	919	963	986	997	1000	1000	1000

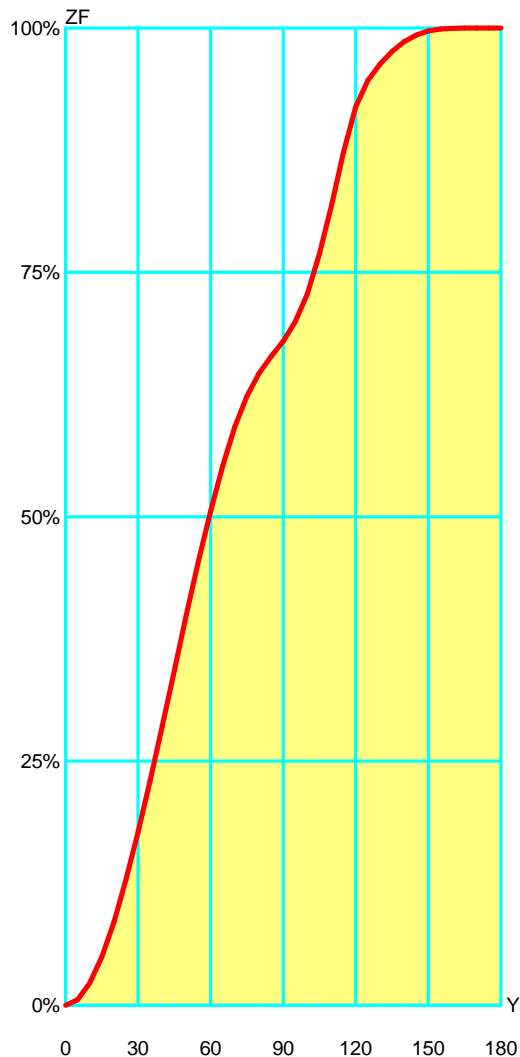
Códigos de Flujo C.I.E.

44 74 92 68 100

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

5/5/5/6/6/6/6/6/6/6/6
B31
0.68 E + 0.32 T
BZ 5
32.04222 %
1.0

LOR 100.00000 %
ULOR 32.04222 %
DLOR 67.95778 %
UFF 32.04222 %
DFF 67.95778 %
FFR 47.15019 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	5.69	5.69	0.57 %	0.57 %
10°	16.75	22.43	1.67 %	2.24 %
15°	26.92	49.36	2.69 %	4.94 %
20°	35.75	85.11	3.58 %	8.51 %
25°	43.04	128.15	4.30 %	12.81 %
30°	48.82	176.97	4.88 %	17.70 %
35°	53.06	230.03	5.31 %	23.00 %
40°	55.88	285.91	5.59 %	28.59 %
45°	57.10	343.01	5.71 %	34.30 %
50°	56.73	399.74	5.67 %	39.97 %
55°	54.82	454.56	5.48 %	45.46 %
60°	51.32	505.88	5.13 %	50.59 %
65°	46.24	552.12	4.62 %	55.21 %
70°	39.42	591.54	3.94 %	59.15 %
75°	31.42	622.96	3.14 %	62.30 %
80°	23.50	646.46	2.35 %	64.65 %
85°	17.61	664.07	1.76 %	66.41 %
90°	15.50	679.58	1.55 %	67.96 %
95°	19.67	699.25	1.97 %	69.93 %
100°	28.60	727.85	2.86 %	72.79 %
105°	41.10	768.95	4.11 %	76.90 %
110°	50.06	819.02	5.01 %	81.90 %
115°	53.91	872.92	5.39 %	87.29 %
120°	46.25	919.17	4.62 %	91.92 %
125°	27.21	946.39	2.72 %	94.64 %
130°	16.62	963.01	1.66 %	96.30 %
135°	12.99	976.00	1.30 %	97.60 %
140°	10.02	986.02	1.00 %	98.60 %
145°	6.88	992.90	0.69 %	99.29 %
150°	4.06	996.96	0.41 %	99.70 %
155°	2.02	998.98	0.20 %	99.90 %
160°	0.71	999.69	0.07 %	99.97 %
165°	0.17	999.86	0.02 %	99.99 %
170°	0.08	999.94	0.01 %	99.99 %
175°	0.05	999.98	0.00 %	100.00 %
180°	0.02	1000.00	0.00 %	100.00 %

Luminaria

Código LAM451
Nombre Lamina 45

Ensayo

Código CL004A19F006G
Nombre Lamina 45

Flujo Luminaria	711.82 lm	Potencia luminaria	17.48 W	Eficacia	40.71 lm/W	Eficiencia	100.00%
Flujo de Lámpara	711.82 lm	Valor Máximo	170.24 cd	Posición	C=0.00 G=0.00	CG	Asimétrico

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
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	Viewed Crosswise					Viewed Endwise				
x=2H y=2H	9.7	10.7	10.4	11.4	12.2	9.8	10.8	10.5	11.5	12.3
x=2H y=3H	11.4	12.3	12.1	13.0	13.9	11.4	12.3	12.2	13.0	13.9
x=2H y=4H	12.1	12.9	12.8	13.6	14.5	12.1	12.9	12.8	13.6	14.5
x=2H y=6H	12.7	13.5	13.5	14.2	15.2	12.5	13.3	13.3	14.1	15.0
x=2H y=8H	13.1	13.8	13.8	14.6	15.5	12.7	13.4	13.5	14.2	15.1
x=2H y=12H	13.4	14.1	14.2	14.9	15.9	12.7	13.4	13.5	14.2	15.2
x=4H y=2H	10.4	11.2	11.1	11.9	12.8	10.4	11.2	11.2	12.0	12.9
x=4H y=3H	12.2	12.9	13.0	13.7	14.7	12.2	12.9	13.0	13.7	14.6
x=4H y=4H	13.0	13.6	13.8	14.4	15.4	13.0	13.6	13.8	14.4	15.4
x=4H y=6H	13.9	14.4	14.7	15.2	16.2	13.5	14.1	14.4	14.9	15.9
x=4H y=8H	14.3	14.8	15.2	15.7	16.7	13.7	14.2	14.6	15.1	16.1
x=4H y=12H	14.8	15.3	15.7	16.1	17.2	13.9	14.3	14.7	15.1	16.2
x=8H y=4H	13.3	13.8	14.2	14.6	15.7	13.3	13.8	14.1	14.6	15.6
x=8H y=6H	14.3	14.7	15.2	15.6	16.6	14.0	14.4	14.9	15.3	16.3
x=8H y=8H	14.9	15.3	15.8	16.2	17.2	14.3	14.6	15.2	15.5	16.6
x=8H y=12H	15.7	16.0	16.6	16.9	18.0	14.5	14.8	15.4	15.7	16.8
x=12H y=4H	13.3	13.8	14.2	14.6	15.7	13.3	13.7	14.1	14.6	15.6
x=12H y=6H	14.4	14.8	15.3	15.6	16.7	14.1	14.4	15.0	15.3	16.4
x=12H y=8H	15.1	15.4	16.0	16.3	17.4	14.4	14.7	15.3	15.6	16.7

Luminaria
Código LAM451
Nombre Lamina 45
Ensayo
Código CL004A19F006G
Nombre Lamina 45

Flujo Luminaria	711.82 lm	Potencia luminaria	17.48 W	Eficacia	40.71 lm/W	Eficiencia	100.00%
Flujo de Lámpara	711.82 lm	Valor Máximo	170.24 cd	Posición	C=0.00 G=0.00	CG	Asimétrico

Isolux (Suelo)

Posición Luminaria X=0.00m Y=0.00m Z=2.50m

