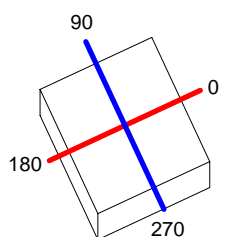


Luminaria		Ensayo		Lámpara		
Código	TAM TAM MINI	Código	TAM TAM MINI	Código	PL ELEC11W/827 E14	
Nombre	TAM TAM 5x11W FBT+3 satel opal	Nombre	Luminaria 5x11W FBT opal	Número	5	
Familia	- MARSET	Fecha	10-01-2013	Posición	Universal	
Rendimiento	19.04%	Sist. de Coordin.	C-G	Flujo Total	3000.00 lm	
Valor Máximo	58.24 cd/klm	Posición	C=90.00 G=10.00	Asimétrico		
Luminaria Rectangular	Longit.	700 mm	Anchura	630 mm	Altura	200 mm
Área Luminosa Rectangular	Longit.	690 mm	Anchura	320 mm	Altura	0 mm
Área Luminosa Horizontal	0.220800 m2		Área Emisión sobre Pl. 180°		0.000000 m2	
Área Emisión sobre Pl. 0°	0.000000 m2		Área Emisión sobre Pl. 270°		0.000000 m2	
Área Emisión sobre Pl. 90°	0.000000 m2		Área de deslumbramiento a 76°		0.053416 m2	
Tipo de Simetría	Asimétrico		Máximo Ángulo Gamma		180	
Distancia de Ensayo	6.44		Flujo de Ensayo		3000.00 lm	
Operador	Asselum T2		Tensión de alimentación		230.00 V	
Temperatura	20.00 °C		Corriente de alimentación			
Humedad	50.00 %		Fotocélula		PRC	
Notas						

Lámparas de la Luminaria					
Familia	Código	Nombre	Flujo lm	Pot. W	Cant.
PHILIPS 2005 ILCOS FBT,G,C,FSQ	PL ELEC11W/827 E14	MASTER PL electr 11W/827 E14	600.00	11.00	5
C.I.E.	43 72 91 95 19	D DIN 5040			
F UTE	0.18 G + 0.01 T	B NBN		A31	
				BZ 5	

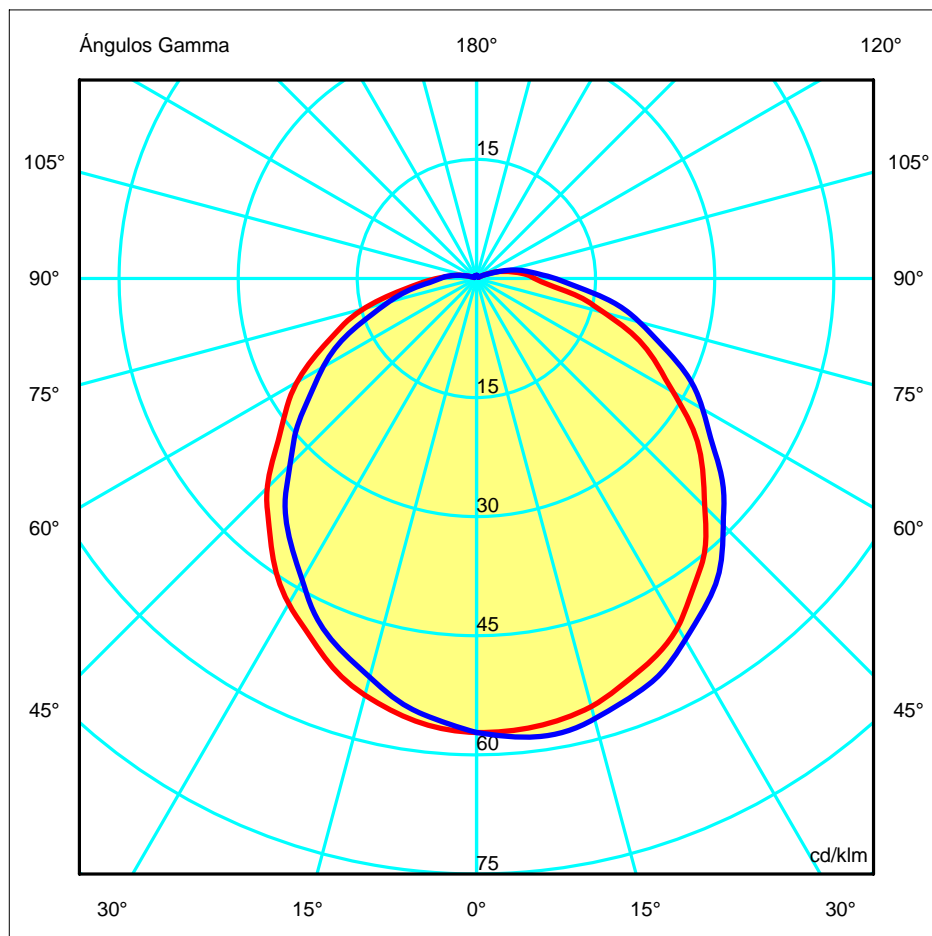
700mm x 630mm



Semiplanos C

180.0 — 0.0
 270.0 — 90.0

ULOR 1.00 %
 DLOR 18.04 %
 RN 5.28 %

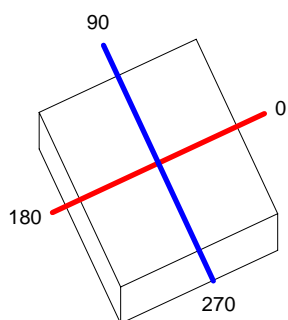


Luminaria		Ensayo									Lámpara		
Código	TAM TAM MINI	Código	TAM TAM MINI	Código	TAM TAM MINI	Código	TAM TAM MINI	Código	TAM TAM MINI	Código	PL ELEC11W/827 E14		
Nombre	TAM TAM 5x11W FBT+3 satel opal	Nombre	Luminaria 5x11W FBT opal	Número	5	Posición	Universal						
Familia	- MARSET	Fecha	10-01-2013										
Rendimiento	19.04%	Sist. de Coordin.				C-G	Flujo Total				3000.00 lm		
Tabla de Intensidad Luminosa cd/klm												Tabla 1/1	
	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	
G 0.0	57.18	57.18	57.18	57.18	57.18	57.18	57.18	57.18	57.18	57.18	57.18	57.18	
G 5.0	57.11	57.21	57.74	57.47	57.88	57.62	57.94	57.66	57.74	57.30	57.29	56.74	
G 10.0	56.64	56.64	57.55	57.07	57.96	57.43	58.24	57.37	57.72	56.43	56.68	55.73	
G 15.0	55.82	55.60	56.87	56.29	57.36	56.42	57.39	56.53	56.73	55.16	55.49	53.85	
G 20.0	54.29	53.92	55.61	54.68	56.30	55.15	56.24	54.61	55.30	53.14	53.65	51.93	
G 25.0	52.76	52.25	54.11	53.10	54.63	53.32	54.88	52.82	53.67	51.08	51.58	49.55	
G 30.0	50.68	49.99	51.81	50.72	52.96	51.19	52.55	50.63	51.05	48.67	49.15	46.32	
G 35.0	47.58	46.76	49.53	48.14	50.61	48.84	50.28	47.40	48.51	45.17	45.75	43.44	
G 40.0	44.72	43.87	46.97	45.33	47.51	45.30	47.71	44.52	45.31	42.10	42.84	40.08	
G 45.0	40.64	40.71	43.18	41.63	44.42	42.09	43.91	41.31	41.85	38.28	39.53	35.84	
G 50.0	37.12	36.45	40.20	39.01	40.82	38.59	40.52	36.95	38.36	34.09	35.07	32.17	
G 55.0	33.38	33.02	36.80	36.16	38.09	35.50	36.25	33.15	33.51	30.14	31.20	27.67	
G 60.0	28.57	28.90	33.29	32.24	35.10	32.42	32.88	28.26	29.58	25.07	26.73	24.34	
G 65.0	24.88	25.19	29.94	28.72	31.00	27.93	29.45	24.53	25.33	21.03	22.74	20.81	
G 70.0	21.24	21.48	25.22	25.08	27.36	24.45	24.99	20.82	20.27	17.15	19.20	16.26	
G 75.0	16.64	16.44	21.44	20.10	23.65	20.55	21.27	16.19	16.33	12.82	14.56	12.60	
G 80.0	13.06	12.73	17.38	16.22	18.73	15.90	17.53	12.74	12.51	9.56	11.04	9.12	
G 85.0	9.12	9.55	12.75	12.21	15.00	12.46	12.92	9.87	9.66	7.08	7.79	5.51	
G 90.0	7.38	7.19	9.82	9.45	11.81	9.76	9.92	7.69	7.60	5.13	4.71	3.49	
G 95.0	6.21	5.85	7.75	7.19	8.77	7.03	7.49	6.42	5.97	4.01	3.09	1.58	
G100.0	4.72	4.61	5.24	4.46	6.46	4.87	5.86	5.15	4.78	2.81	1.93	0.57	
G105.0	3.50	3.05	3.71	2.52	3.70	2.41	3.96	3.48	3.57	1.59	0.84	0.26	
G110.0	2.33	1.88	2.37	1.18	1.83	1.07	1.97	2.01	2.11	0.73	0.37	0.28	
G115.0	1.06	0.75	1.16	0.37	0.63	0.52	1.12	0.82	1.07	0.28	0.28	0.29	
G120.0	0.43	0.34	0.46	0.25	0.25	0.28	0.49	0.35	0.46	0.27	0.29	0.29	
G125.0	0.27	0.27	0.27	0.27	0.27	0.28	0.30	0.28	0.27	0.28	0.29	0.31	
G130.0	0.29	0.28	0.28	0.28	0.27	0.29	0.28	0.29	0.28	0.30	0.30	0.32	
G135.0	0.31	0.29	0.29	0.29	0.28	0.28	0.28	0.31	0.30	0.31	0.33	0.32	
G140.0	0.33	0.29	0.30	0.31	0.29	0.31	0.30	0.32	0.31	0.33	0.33	0.35	
G145.0	0.32	0.32	0.31	0.32	0.31	0.32	0.31	0.33	0.32	0.34	0.36	0.35	
G150.0	0.33	0.32	0.32	0.34	0.32	0.33	0.32	0.33	0.34	0.35	0.35	0.36	
G155.0	0.35	0.33	0.35	0.35	0.33	0.35	0.34	0.35	0.35	0.36	0.36	0.38	
G160.0	0.35	0.35	0.35	0.36	0.35	0.35	0.35	0.36	0.36	0.37	0.37	0.39	
G165.0	0.36	0.36	0.37	0.35	0.36	0.37	0.36	0.37	0.37	0.38	0.38	0.40	
G170.0	0.37	0.36	0.36	0.37	0.37	0.39	0.39	0.40	0.40	0.40	0.40	0.42	
G175.0	0.39	0.39	0.38	0.37	0.39	0.37	0.40	0.41	0.40	0.41	0.41	0.40	
G180.0	0.39	0.40	0.39	0.38	0.39	0.38	0.39	0.39	0.41	0.39	0.40	0.40	
	C 180.00	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	57.18	57.18	57.18	57.18	57.18	57.18	57.18	57.18	57.18	57.18	57.18	57.18	
G 5.0	56.77	56.75	56.22	56.40	56.12	56.00	55.82	56.33	56.06	56.70	56.80	57.26	
G 10.0	55.74	55.62	54.96	55.22	54.34	54.73	54.31	54.77	54.83	55.58	55.69	56.87	
G 15.0	54.29	54.22	52.99	53.37	52.60	53.13	51.97	53.28	52.93	54.33	54.37	55.76	
G 20.0	52.38	52.56	51.01	51.57	50.00	50.72	49.84	51.34	50.65	52.68	52.76	54.52	
G 25.0	49.67	50.00	48.80	48.79	47.54	48.40	47.37	48.56	48.38	50.13	49.96	52.81	
G 30.0	47.29	47.58	45.42	46.35	44.77	45.85	43.91	46.00	44.96	47.73	47.52	50.05	
G 35.0	44.29	44.79	42.44	43.46	40.95	42.18	40.74	43.07	41.95	45.18	44.66	47.48	
G 40.0	40.64	41.05	38.69	39.61	37.55	38.99	37.49	39.19	38.79	41.25	40.99	44.73	
G 45.0	37.27	37.72	34.76	36.18	34.08	35.34	33.19	35.84	34.19	37.92	37.40	40.76	
G 50.0	32.85	33.21	31.15	32.61	29.52	31.21	29.62	31.50	30.66	33.73	32.67	37.15	
G 55.0	29.38	29.78	26.84	28.00	25.97	27.68	25.57	28.03	26.74	29.68	28.83	32.41	
G 60.0	26.14	26.51	23.64	24.78	22.38	23.77	22.30	24.67	22.82	25.86	24.91	28.28	
G 65.0	21.94	22.37	20.39	21.73	19.64	20.66	18.92	20.49	19.29	21.27	19.89	24.30	
G 70.0	18.32	18.82	16.44	18.52	16.98	17.65	14.72	16.88	14.47	17.81	16.31	19.49	
G 75.0	14.74	15.30	13.62	15.83	13.60	14.27	11.46	13.31	10.77	14.02	12.68	16.18	
G 80.0	10.35	11.19	10.88	12.46	11.03	11.56	8.75	8.85	7.19	9.43	8.99	12.99	
G 85.0	7.26	8.62	8.48	10.11	8.86	9.05	5.94	5.75	3.45	6.05	6.55	9.44	
G 90.0	5.03	6.52	7.20	8.33	7.15	6.75	4.63	3.20	1.53	3.66	4.56	7.41	
G 95.0	3.45	5.38	5.70	6.87	6.02	5.66	3.59	2.18	0.54	2.11	3.44	6.09	
G100.0	2.48	4.30	4.55	5.72	4.61	4.24	2.28	1.08	0.26	1.23	2.31	4.53	
G105.0	1.32	2.92	3.37	4.51	3.33	3.14	1.28	0.39	0.26	0.43	1.10	3.28	
G110.0	0.60	1.88	1.92	2.97	2.13	2.01	0.47	0.27	0.27	0.26	0.48	1.84	
G115.0	0.28	0.90	0.91	1.82	0.83	0.83	0.30	0.28	0.29	0.26	0.28	0.87	
G120.0	0.29	0.31	0.38	0.62	0.35	0.36	0.30	0.29	0.30	0.28	0.29	0.38	
G125.0	0.29	0.29	0.33	0.31	0.30	0.31	0.31	0.31	0.31	0.29	0.30	0.29	
G130.0	0.31	0.29	0.32	0.32	0.32	0.32	0.32	0.31	0.32	0.30	0.30	0.29	
G135.0	0.32	0.31	0.33	0.32	0.33	0.32	0.34	0.33	0.34	0.31	0.32	0.31	
G140.0	0.33	0.32	0.32	0.33	0.33	0.33	0.34	0.33	0.34	0.33	0.33	0.32	
G145.0	0.35	0.33	0.35	0.33	0.35	0.35	0.35	0.35	0.35	0.34	0.37	0.33	
G150.0	0.35	0.35	0.35	0.35	0.36	0.35	0.36	0.36	0.36	0.35	0.37	0.35	
G155.0	0.36	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.38	0.36	0.37	0.36	
G160.0	0.37	0.36	0.36	0.36	0.37	0.37	0.38	0.37	0.38	0.37	0.37	0.36	
G165.0	0.39	0.37	0.38	0.37	0.37	0.39	0.39	0.39	0.39	0.38	0.39	0.38	
G170.0	0.40	0.37	0.38	0.37	0.37	0.38	0.40	0.39	0.40	0.38	0.40	0.39	
G175.0	0.39	0.39	0.39	0.37	0.37	0.37	0.39	0.39	0.42	0.41	0.40	0.39	
G180.0	0.39	0.40	0.39	0.38	0.39	0.38	0.39	0.39	0.41	0.39	0.40	0.40	

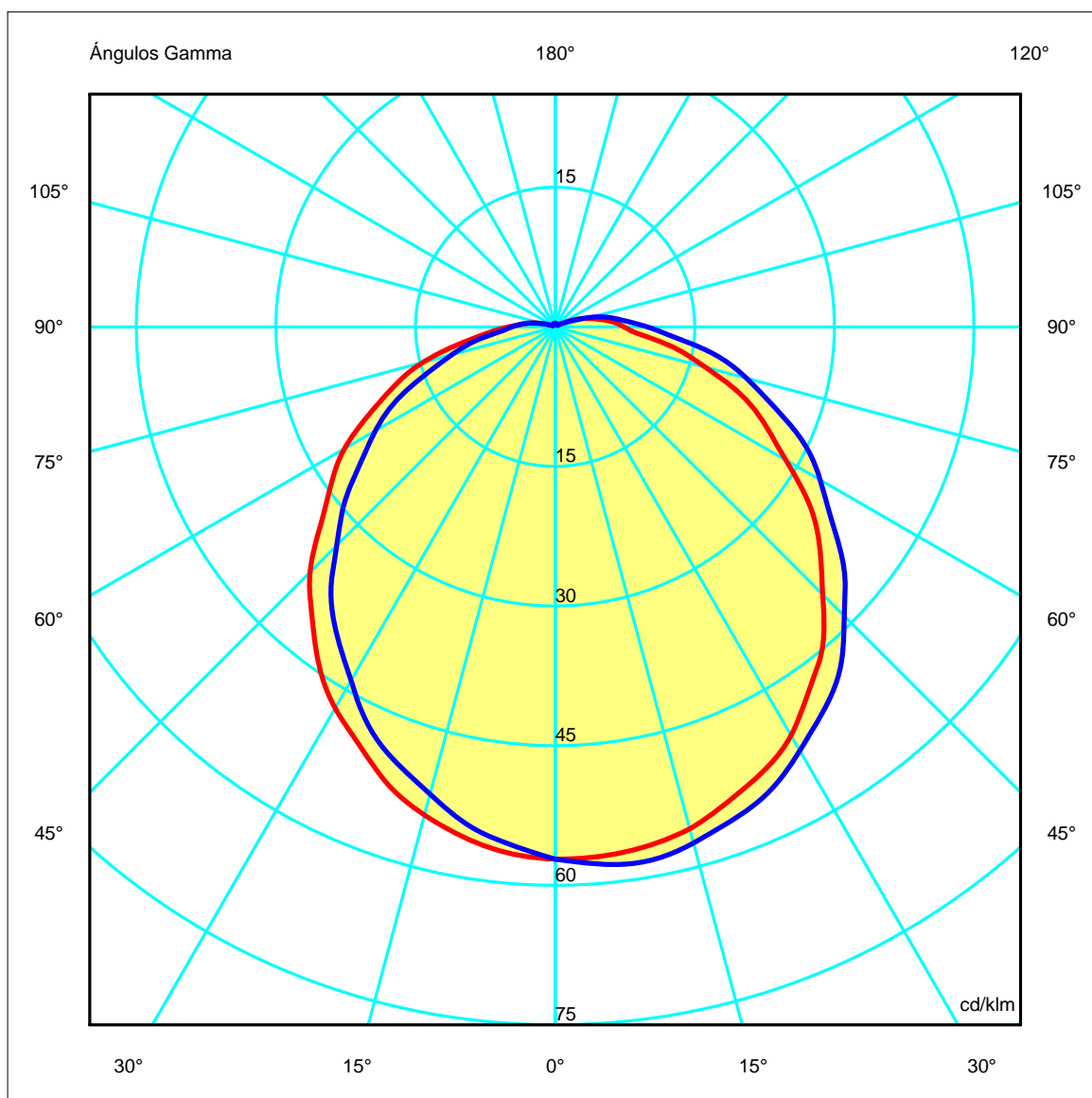
Luminaria		Ensayo		Lámpara	
Código	TAM TAM MINI	Código	TAM TAM MINI	Código	PL ELEC11W/827 E14
Nombre	TAM TAM 5x11W FBT+3 satel opal	Nombre	Luminaria 5x11W FBT opal	Número	5
Familia	- MARSET	Fecha	10-01-2013	Posición	Universal
Rendimiento	19.04%	Sist. de Coorden.	C-G	Flujo Total	3000.00 lm

700mm x 630mm

Semiplanos C

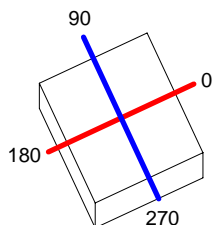


180.0 ————— 0.0
 270.0 ————— 90.0



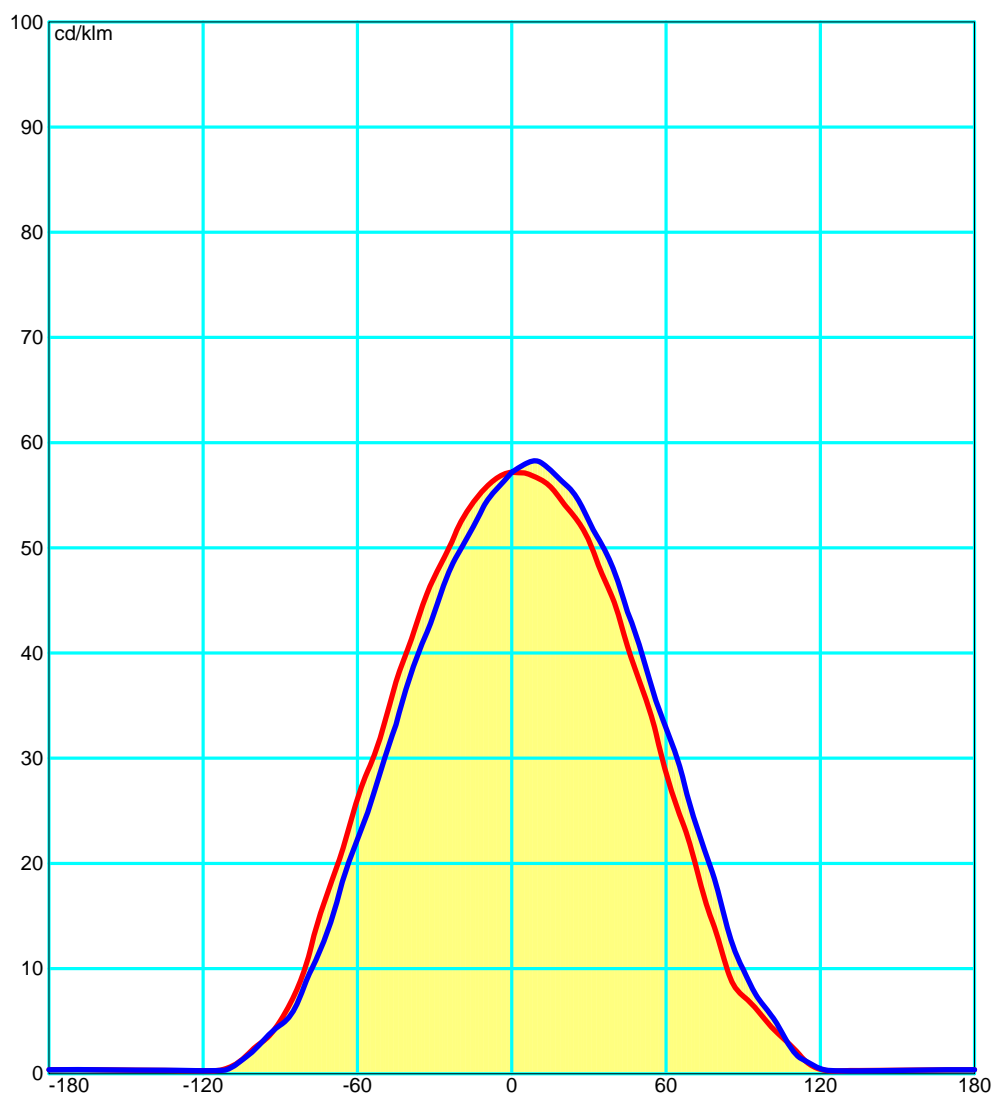
Luminaria		Ensayo		Lámpara	
Código	TAM TAM MINI	Código	TAM TAM MINI	Código	PL ELEC11W/827 E14
Nombre	TAM TAM 5x11W FBT+3 satel opal	Nombre	Luminaria 5x11W FBT opal	Número	5
Familia	- MARSET	Fecha	10-01-2013	Posición	Universal
Rendimiento	19.04%	Sist. de Coord.	C-G	Flujo Total	3000.00 lm

700mm x 630mm



Semiplanos C

180.0 ————— 0.0
 270.0 ————— 90.0

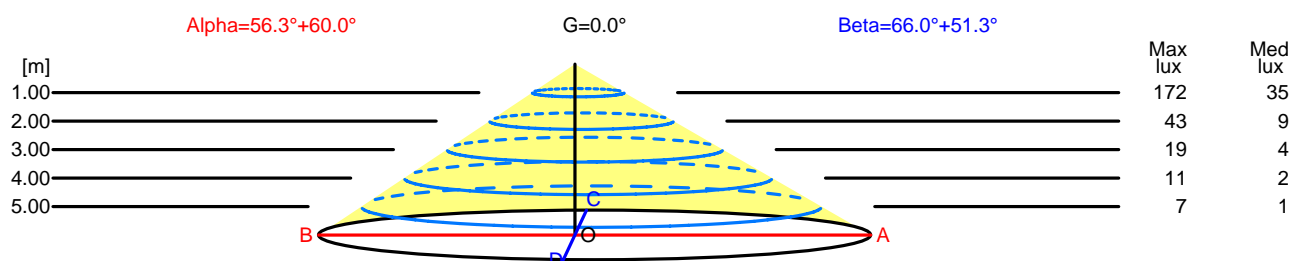


Luminaria		Ensayo		Lámpara	
Código	TAM TAM MINI	Código	TAM TAM MINI	Código	PL ELEC11W/827 E14
Nombre	TAM TAM 5x11W FBT+3 satel opal	Nombre	Luminaria 5x11W FBT opal	Número	5
Familia	- MARSET	Fecha	10-01-2013	Posición	Universal
Rendimiento	19.04%	Sist. de Coordn.	C-G	Flujo Total	3000.00 lm

Apertura a 50.00 % de MaxLux

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	1.73	3.46	5.19	6.92	8.65	OC	2.25	4.49	6.74	8.99	11.23
OB	1.50	3.00	4.50	6.00	7.50	OD	1.25	2.50	3.74	4.99	6.24

	Intensidades Luminosas [cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	57.18	57.11	55.82	52.76	47.58	40.64	33.38	24.88	16.64	9.12
OB	57.18	56.77	54.29	49.67	44.29	37.27	29.38	21.94	14.74	7.26
OC	57.18	57.94	57.39	54.88	50.28	43.91	36.25	29.45	21.27	12.92
OD	57.18	55.82	51.97	47.37	40.74	33.19	25.57	18.92	11.46	5.94



H[m]	D[m]	Max lux	Med lux	Alpha=56.3°+60.0°	G=0.0	
1.00	3.23	172	35			
2.00	6.46	43	9			
3.00	9.69	19	4			
4.00	12.92	11	2			
5.00	16.15	7	1			

H[m]	D[m]	Max lux	Med lux	Beta=51.3°+66.0°	G=0.0	
1.00	3.49	172	35			
2.00	6.99	43	9			
3.00	10.48	19	4			
4.00	13.98	11	2			
5.00	17.47	7	1			

Luminaria				Ensayo				Lámpara			
Código	TAM	TAM	MINI	Código	TAM	TAM	MINI	Código	PL	ELEC11W/827	E14
Nombre	TAM	TAM	5x11W	Nombre	Luminaria	5x11W	FBT opal	Número	5		
Familia	-	MARSET		Fecha	10-01-2013			Posición	Universal		
Rendimiento	19.04%			Sist. de Coord.	C-G			Flujo Total	3000.00 lm		

Flujo Total=3000.00 Flujo Luminaria=571.26

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	0.28	0.36	0.42	0.49	0.55	0.63	0.69	0.73	0.79	0.82	0.90	0.94
RC	6	6	6	6	6	6	6	6	6	6	6	6

Flujo Zonal por 1000 Lúmenes

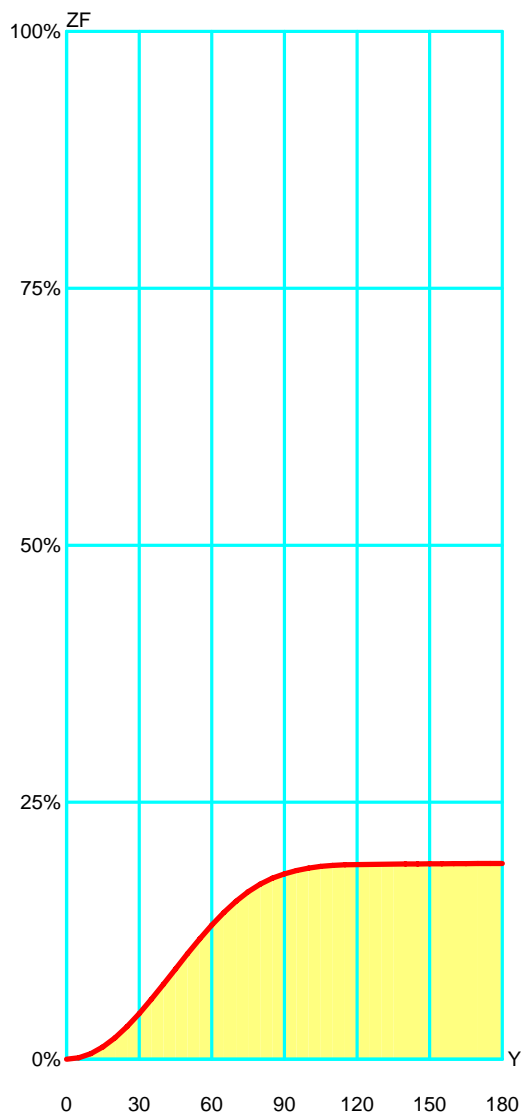
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	5	21	44	73	103	131	154	170	180	186	189	189	190	190	190	190	190	190

Códigos de Flujo C.I.E.

43 72 91 95 19

C.I.E. 6
D DIN 5040 A31
F UTE 0.18 G + 0.01 T
B NBN BZ 5
RN 5.27743 %
BLF 1.0

LOR 19.04204 %
ULOR 1.00493 %
DLOR 18.03711 %
UFF 5.27743 %
DFF 94.72257 %
FFR 5.57146 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	1.36	1.36	0.72 %	0.72 %
10°	4.05	5.41	2.13 %	2.84 %
15°	6.59	12.00	3.46 %	6.30 %
20°	8.90	20.90	4.67 %	10.97 %
25°	10.92	31.82	5.74 %	16.71 %
30°	12.59	44.41	6.61 %	23.32 %
35°	13.84	58.25	7.27 %	30.59 %
40°	14.66	72.91	7.70 %	38.29 %
45°	14.99	87.90	7.87 %	46.16 %
50°	14.85	102.75	7.80 %	53.96 %
55°	14.31	117.05	7.51 %	61.47 %
60°	13.46	130.51	7.07 %	68.54 %
65°	12.32	142.82	6.47 %	75.00 %
70°	10.89	153.72	5.72 %	80.72 %
75°	9.24	162.95	4.85 %	85.58 %
80°	7.45	170.41	3.91 %	89.49 %
85°	5.70	176.11	2.99 %	92.49 %
90°	4.26	180.37	2.24 %	94.72 %
95°	3.22	183.59	1.69 %	96.41 %
100°	2.39	185.99	1.26 %	97.67 %
105°	1.64	187.62	0.86 %	98.53 %
110°	0.99	188.62	0.52 %	99.05 %
115°	0.52	189.14	0.27 %	99.33 %
120°	0.25	189.39	0.13 %	99.46 %
125°	0.15	189.53	0.08 %	99.53 %
130°	0.13	189.66	0.07 %	99.60 %
135°	0.12	189.79	0.06 %	99.67 %
140°	0.12	189.90	0.06 %	99.73 %
145°	0.11	190.01	0.06 %	99.79 %
150°	0.10	190.11	0.05 %	99.84 %
155°	0.09	190.20	0.05 %	99.89 %
160°	0.08	190.28	0.04 %	99.92 %
165°	0.06	190.34	0.03 %	99.96 %
170°	0.05	190.38	0.02 %	99.98 %
175°	0.03	190.41	0.01 %	100.00 %
180°	0.01	190.42	0.00 %	100.00 %

Luminaria		Ensayo		Lámpara	
Código	TAM TAM MINI	Código	TAM TAM MINI	Código	PL ELEC11W/827 E14
Nombre	TAM TAM 5x11W FBT+3 satel opal	Nombre	Luminaria 5x11W FBT opal	Número	5
Familia	- MARSET	Fecha	10-01-2013	Posición	Universal
Rendimiento	19.04%	Sist. de Coorden.	C-G	Flujo Total	3000.00 lm

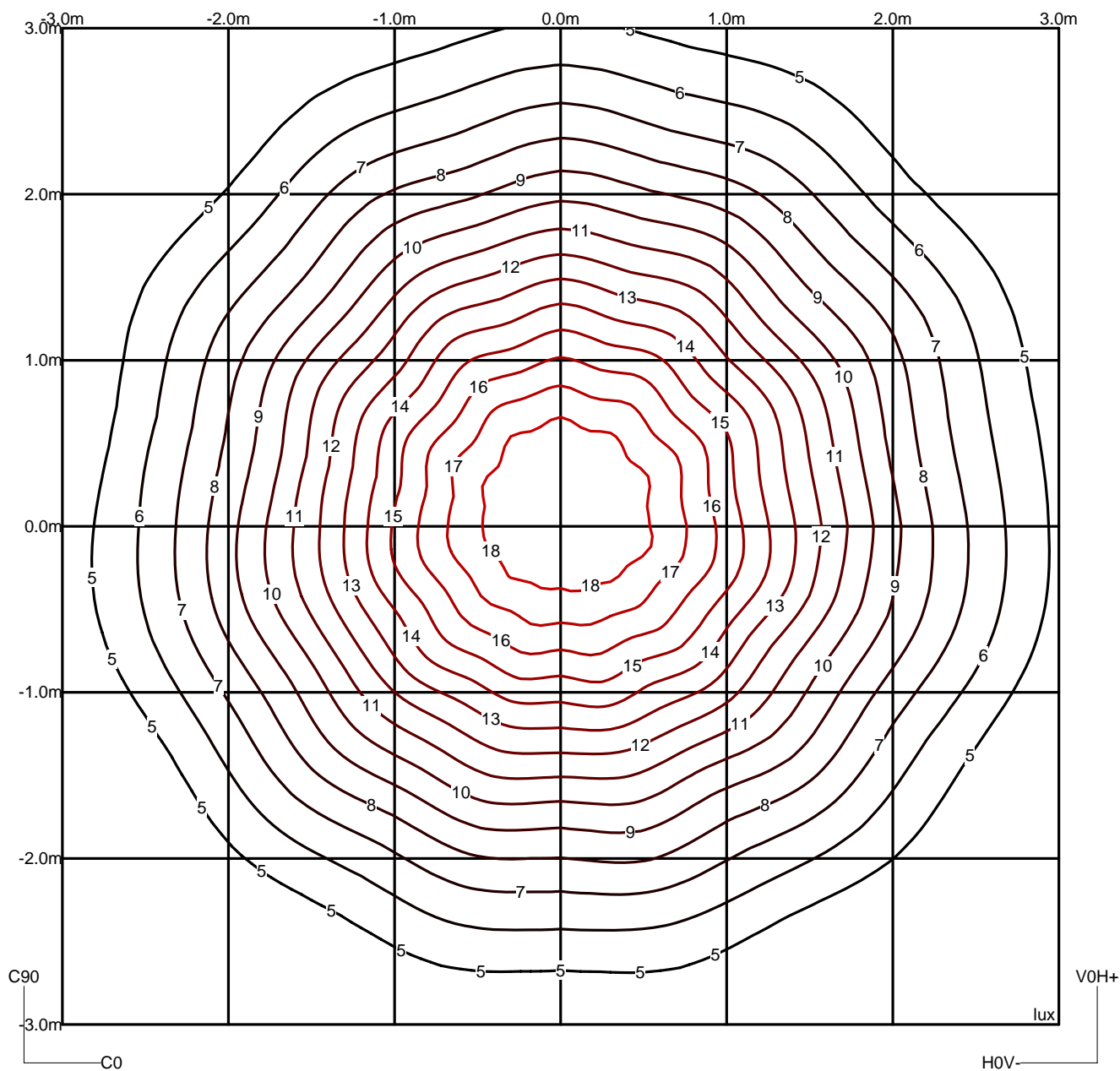
UGR
S = 0.250

Reflectancias										
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	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	10.7	12.0	11.0	12.3	14.0	12.0	13.3	12.3	13.6	14.0
x=2H y=3H	12.5	13.7	12.9	14.1	16.0	14.1	15.3	14.5	15.6	16.0
x=2H y=4H	13.5	14.5	13.8	15.0	17.2	15.2	16.3	15.6	16.7	17.2
x=2H y=6H	14.3	15.4	14.8	15.9	18.3	16.4	17.5	16.9	17.9	18.3
x=2H y=8H	14.8	15.7	15.2	16.2	18.9	17.1	18.0	17.5	18.5	18.9
x=2H y=12H	15.1	16.1	15.6	16.5	19.5	17.7	18.6	18.1	19.0	19.5
x=4H y=2H	11.4	12.5	11.8	13.0	14.7	12.7	13.8	13.1	14.3	14.7
x=4H y=3H	13.5	14.5	14.0	14.9	17.0	15.1	16.1	15.6	16.5	17.0
x=4H y=4H	14.6	15.5	15.1	15.9	18.3	16.4	17.3	16.9	17.7	18.3
x=4H y=6H	15.6	16.4	16.1	16.8	19.4	17.7	18.5	18.2	18.9	19.4
x=4H y=8H	16.1	16.9	16.6	17.3	20.2	18.4	19.1	18.9	19.6	20.2
x=4H y=12H	16.6	17.3	17.2	17.8	20.9	19.1	19.8	19.7	20.3	20.9
x=8H y=4H	15.1	15.9	15.7	16.3	18.7	16.9	17.6	17.4	18.1	18.7
x=8H y=6H	16.4	17.0	16.9	17.5	20.2	18.4	19.0	19.0	19.6	20.2
x=8H y=8H	17.0	17.6	17.6	18.1	21.0	19.3	19.8	19.8	20.4	21.0
x=8H y=12H	17.7	18.2	18.3	18.7	21.9	20.2	20.7	20.8	21.2	21.9
x=12H y=4H	15.2	15.9	15.8	16.4	18.7	17.0	17.6	17.5	18.1	18.7
x=12H y=6H	16.6	17.1	17.1	17.7	20.3	18.6	19.2	19.2	19.7	20.3
x=12H y=8H	17.3	17.8	17.9	18.3	21.2	19.6	20.0	20.2	20.6	21.2

Luminaria		Ensayo		Lámpara	
Código	TAM TAM MINI	Código	TAM TAM MINI	Código	PL ELEC11W/827 E14
Nombre	TAM TAM 5x11W FBT+3 satel opal	Nombre	Luminaria 5x11W FBT opal	Número	5
Familia	- MARSET	Fecha	10-01-2013	Posición	Universal
Rendimiento	19.04%	Sist. de Coord.	C-G	Flujo Total	3000.00 lm

Isolux (Suelo)

Posición Luminaria X=0.00m Y=0.00m Z=3.00m



Luminaria				Ensayo				Lámpara			
Código	TAM	TAM	MINI	Código	TAM	TAM	MINI	Código	PL	ELEC11W/827	E14
Nombre	TAM	TAM	5x11W FBT+3 satel opal	Nombre	Luminaria	5x11W FBT opal		Número	5		
Familia	-	MARSET		Fecha	10-01-2013			Posición	Universal		
Rendimiento	19.04%			Sist. de Coord.	C-G			Flujo Total	3000.00 lm		

Utilización CIE

Montaje	Directo			114-Norm type Normalizados							Raz. de Susp. 1/3					CIE Estándar									
	Techo																								
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000		
0.60	49	44	40	37	42	35	28	23	23	20	15	12	10	7	19	12	11	8	6	10	7	6	4		
0.80	56	51	44	40	49	38	34	29	27	23	18	14	12	8	22	15	14	10	8	13	8	7	4		
1.00	61	57	45	42	54	40	38	34	28	26	20	16	13	10	24	17	15	11	10	15	10	9	5		
1.25	65	61	45	42	58	41	43	39	30	27	21	18	15	12	26	19	17	13	11	16	11	10	6		
1.50	68	65	44	42	62	41	47	43	31	28	23	20	16	13	27	20	19	14	13	18	13	12	6		
2.00	72	69	43	41	66	40	53	49	31	30	24	22	18	16	28	22	21	16	15	20	15	14	7		
2.50	74	72	42	40	69	39	57	54	32	30	25	23	20	17	29	23	22	18	17	21	17	16	7		
3.00	76	74	40	39	71	38	60	57	32	31	26	24	21	19	29	24	23	19	18	22	18	17	8		
4.00	78	77	39	38	73	37	64	62	32	31	27	25	23	21	30	25	25	21	20	24	20	19	8		
5.00	79	78	38	37	75	36	67	65	32	31	28	26	24	22	30	26	25	23	22	25	21	20	8		
10.00	82	81	35	35	78	34	74	72	31	31	29	28	27	26	30	28	27	26	25	27	25	24	9		
20.00	83	83	33	33	80	32	77	77	31	31	30	29	28	28	30	29	29	27	27	28	27	26	10		

Pared

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	90	87	79	77	86	76	67	66	61	60	52	50	44	43	59	50	50	44	43	49	43	43	39
0.80	102	99	88	86	97	85	79	77	71	69	61	59	53	52	68	59	58	52	51	58	51	51	46
1.00	111	108	93	92	106	90	88	86	77	75	67	65	60	58	74	65	65	58	58	64	58	57	52
1.25	119	116	98	96	113	95	97	94	83	81	73	72	66	64	79	71	70	65	64	70	64	63	57
1.50	125	123	101	100	119	98	103	101	87	86	78	76	71	69	83	76	75	70	69	74	68	67	61
2.00	132	130	104	103	126	101	112	110	92	91	84	83	78	76	88	82	81	76	75	79	74	73	66
2.50	137	135	106	105	131	103	118	116	95	94	88	87	82	81	92	86	85	80	80	83	79	77	70
3.00	141	139	107	107	134	104	123	121	97	97	91	90	86	84	94	88	88	84	83	86	82	80	72
4.00	147	145	110	110	140	108	131	129	102	101	97	95	92	91	98	94	93	90	89	91	87	85	77
5.00	151	150	113	112	144	110	136	135	105	105	101	100	97	95	102	98	97	94	93	95	92	90	81
10.00	163	162	120	120	156	118	151	150	115	115	112	112	110	109	111	109	109	107	106	106	104	101	92
20.00	172	171	126	126	165	124	162	161	122	122	121	120	119	119	119	117	117	116	116	114	113	110	100

P.Trab.

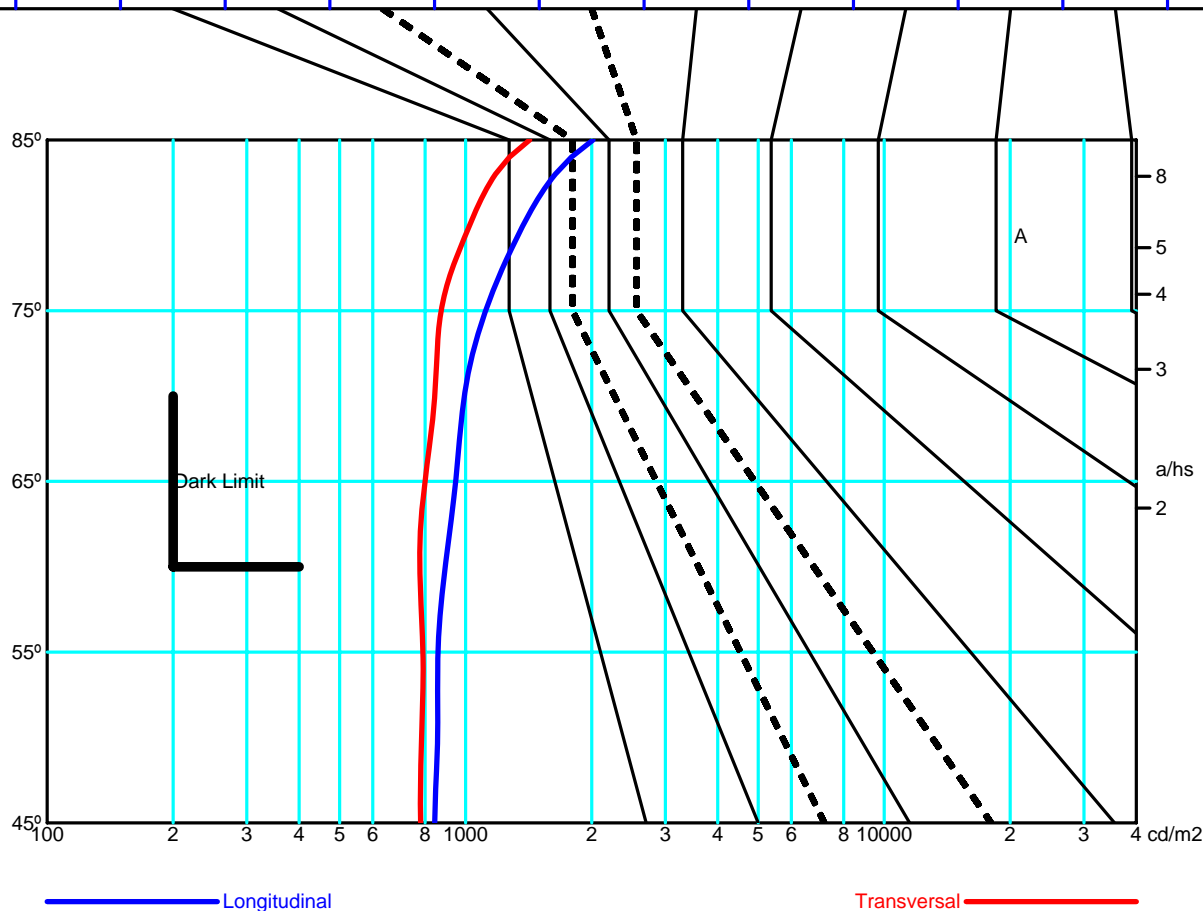
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	107	104	100	97	102	96	80	78	77	76	64	63	55	54	74	63	62	54	54	62	54	53	50
0.80	127	123	117	114	121	112	98	96	94	92	80	79	70	69	90	78	78	69	69	77	68	68	64
1.00	142	139	130	127	135	125	113	111	107	105	94	92	84	82	103	91	91	82	81	90	81	80	77
1.25	157	154	141	139	149	137	128	125	120	118	107	105	97	95	115	104	103	95	94	102	94	93	89
1.50	168	165	150	148	160	145	140	137	130	128	118	116	108	106	125	114	113	106	105	112	104	102	99
2.00	184	182	163	161	176	158	158	155	145	143	134	132	125	123	139	130	129	122	121	127	120	118	114
2.50	195	193	170	169	186	166	170	167	154	153	145	143	136	134	149	140	139	133	132	137	130	128	124
3.00	203	201	176	175	193	171	179	176	161	160	153	151	145	143	155	148	147	141	140	144	138	135	132
4.00	213	211	182	182	203	178	191	188	170	169	163	161	156	154	164	158	157	152	151	153	148	145	142
5.00	219	217	187	186	209	182	199	196	175	175	169	168	163	162	169	164	163	159	158	159	155	151	148
10.00	232	231	195	195	222	191	216	214	187	187	183	183	180	179	181	178	177	175	174	172	170	165	162
20.00	240	239	200	200	229	196	226	225	194	194	192	191	190	189	187	186	185	184	184	180	179	173	170

LM53 SHR C0-C180: 1.299 SHR C90-C270: 1.349 SHR Superficial: 1.439

Luminaria		Ensayo		Lámpara	
Código	TAM TAM MINI	Código	TAM TAM MINI	Código	PL ELEC11W/827 E14
Nombre	TAM TAM 5x11W FBT+3 satel opal	Nombre	Luminaria 5x11W FBT opal	Número	5
Familia	- MARSET	Fecha	10-01-2013	Posición	Universal
Rendimiento	19.04%	Sist. de Coord.	C-G	Flujo Total	3000.00 lm

	Luminancia Media [cd/m²]									
	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0°	780.9	784.7	790.7	776.5	799.8	843.8	873.7	1021.5	1421.5	---
90°	843.8	856.6	858.8	893.6	946.7	992.6	1116.4	1371.9	2014.8	---
180°	716.1	694.4	695.9	710.4	705.2	727.6	773.9	809.8	1131.2	---
270°	637.8	626.1	605.6	606.1	608.3	584.7	601.3	684.9	926.5	---

Flujo montado o vista longitudinal												
		Iluminancia (lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



Luminaria

Código TAM TAM MINI
 Nombre TAM TAM 5x11W FBT+3 satel opal
 Familia - MARSET

Ensayo

Código TAM TAM MINI
 Nombre Luminaria 5x11W FBT opal
 Fecha 10-01-2013

Lámpara

Código PL ELEC11W/827 E14
 Número 5
 Posición Universal

Rendimiento 19.04%

Sist. de Coorden. C-G

Flujo Total 3000.00 lm

Luminancia

G/C	0	30	60	90	120	150	180	210	240	270	300	330
0°	776.92	776.92	776.92	776.92	776.92	776.92	776.92	776.92	776.92	776.92	776.92	776.92
5°	778.98	787.48	789.41	790.18	787.50	781.42	774.34	766.76	765.35	761.31	764.62	774.66
10°	781.38	793.97	799.70	803.57	796.38	782.05	768.99	758.27	749.77	749.26	756.50	768.30
15°	785.20	799.91	806.78	807.26	798.00	780.52	763.68	745.35	739.86	731.02	744.50	764.82
20°	784.92	804.13	814.05	813.14	799.59	775.70	757.32	737.52	722.90	720.58	732.32	762.81
25°	790.90	811.25	818.96	822.79	804.61	773.22	744.60	731.53	712.73	710.16	725.24	748.92
30°	795.11	812.87	830.81	824.38	800.92	771.18	741.91	712.63	702.36	688.85	705.43	745.61
35°	789.19	821.50	839.50	834.00	804.57	758.85	734.69	703.87	679.26	675.78	695.84	740.70
40°	793.17	833.12	842.65	846.14	803.62	759.75	720.87	686.27	665.98	664.98	687.97	727.03
45°	780.89	829.62	853.48	843.79	804.17	759.54	716.06	667.90	654.93	637.80	656.98	718.72
50°	784.68	849.79	862.92	856.58	810.90	741.26	694.40	658.41	624.04	626.13	648.14	690.61
55°	790.71	871.72	902.28	858.81	793.84	739.17	695.87	635.80	615.09	605.59	633.33	682.86
60°	776.47	904.72	953.70	893.56	803.76	726.39	710.42	642.43	608.28	606.08	620.03	676.94
65°	799.80	962.56	996.74	946.69	814.43	731.14	705.23	655.41	631.57	608.31	620.30	639.46
70°	843.81	1002.05	1086.77	992.57	805.21	762.57	727.58	653.10	674.60	584.67	574.97	647.79
75°	873.70	1125.54	1241.53	1116.39	857.37	764.45	773.88	715.18	713.78	601.35	565.60	665.60
80°	1021.52	1359.55	1465.89	1371.86	978.54	863.98	809.84	851.02	863.25	684.89	562.37	703.27
85°	1421.52	1988.04	2338.87	2014.77	1505.88	1213.76	1131.17	1322.56	1381.37	926.50	538.43	1021.27

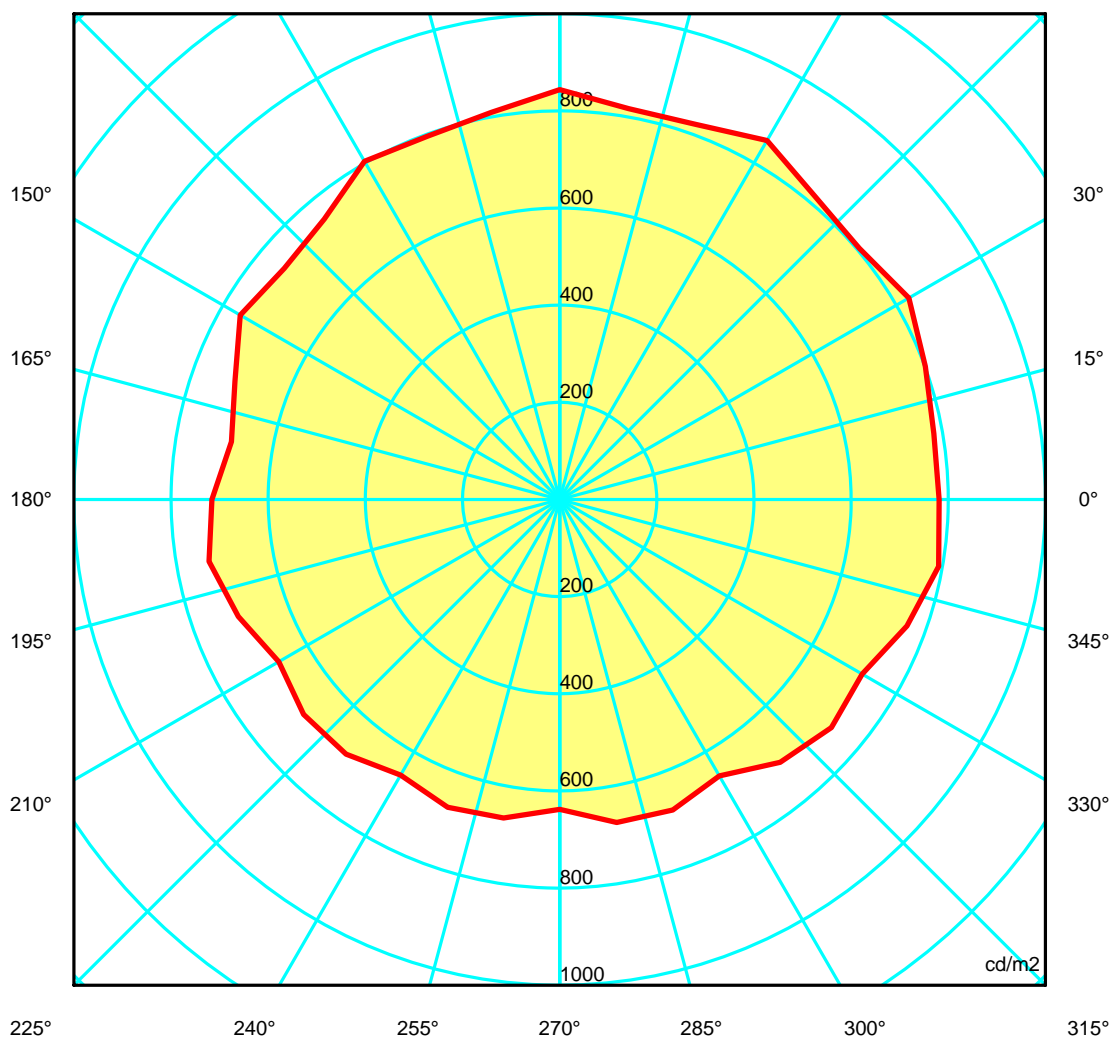
Semiplanos C

90°

75°

60°

45°



45.0°