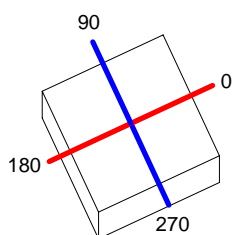


Luminaria		Ensayo				Lámpara	
Código	TAM TAM + 3 SATEL	Código	TAM TAM + 3 SATEL		Código	DLX EL FCY 18W827E27	
Nombre	TAM TAM 9x18W FBT+3 satel opal	Nombre	TAM TAM 9x18W FBT+3 satel opal		Número	9	
Familia	- MARSET	Fecha	05-07-2012		Posición	Universal	
Rendimiento	14.18%	Sist. de Coordin.	C-G		Flujo Total	9900.00 lm	
Valor Máximo	43.01 cd/klm	Posición	C=285.00 G=5.00		Sim. en los planos 270-90		
Luminaria Rectangular	Longit.	1000 mm	Anchura	1000 mm	Altura	300 mm	
Área Luminosa Rectangular	Longit.	980 mm	Anchura	980 mm	Altura	0 mm	
Área Luminosa Horizontal	0.960400 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°			0.232342 m2		
Tipo de Simetría	Sim. en los planos 270-90	Máximo Ángulo Gamma			180		
Distancia de Ensayo	6.44	Flujo de Ensayo			13410.00 lm		
Operador	Asselum T2	Tensión de alimentación			230.00 V		
Temperatura	25.00 °C	Corriente de alimentación					
Humedad	52.00 %	Fotocélula			PRC		
Notas							
Lámparas de la Luminaria							
Familia	Código	Nombre			Flujo lm	Pot. W	Cant.
OSRAM 2006 FB,T,G,C,FS,Q,M,D	DLX EL FCY 18W827E27	DULUX® EL FACILITY 18W/827 E27			1100.00	18.00	9
C.I.E.	43 73 91 96 14	D DIN 5040			A31		
F UTE	0.14 G + 0.01 T	B NBN			BZ 5		

1000mm x 1000mm



Semiplanos C

270.0 — 0.0

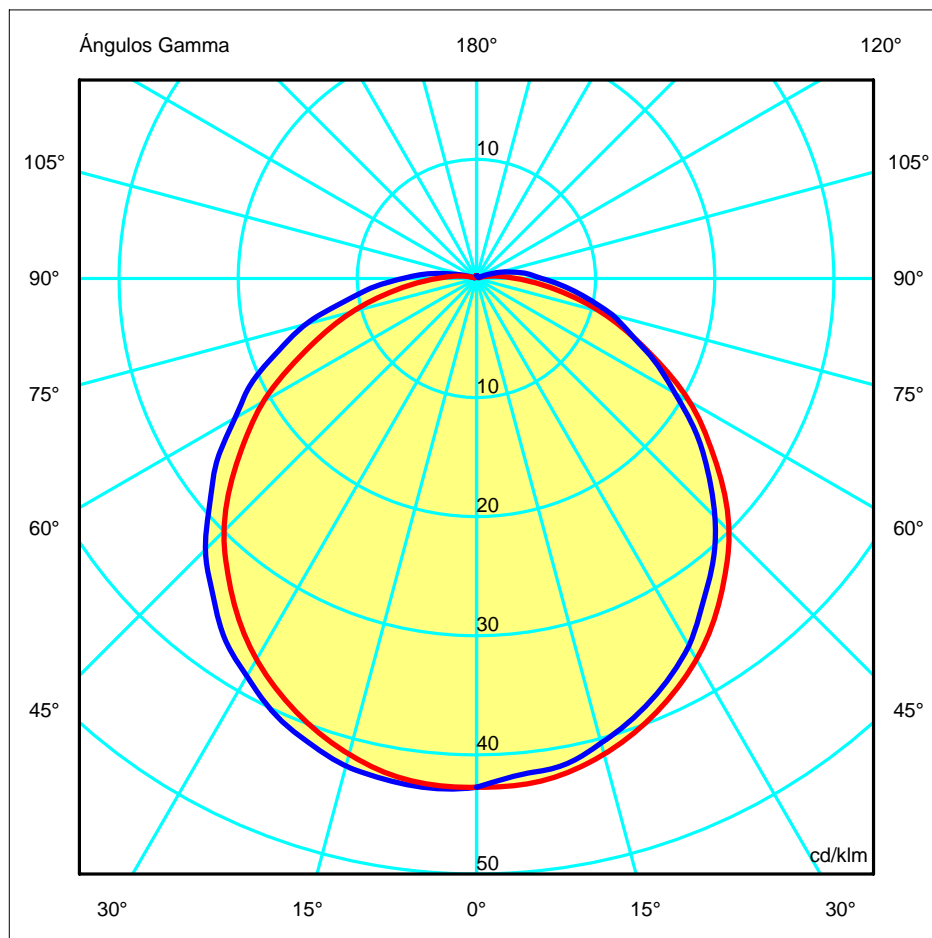
180.0 — 0.0

90.0 — 0.0

ULOR 0.56 %

DLOR 13.63 %

RN 3.91 %



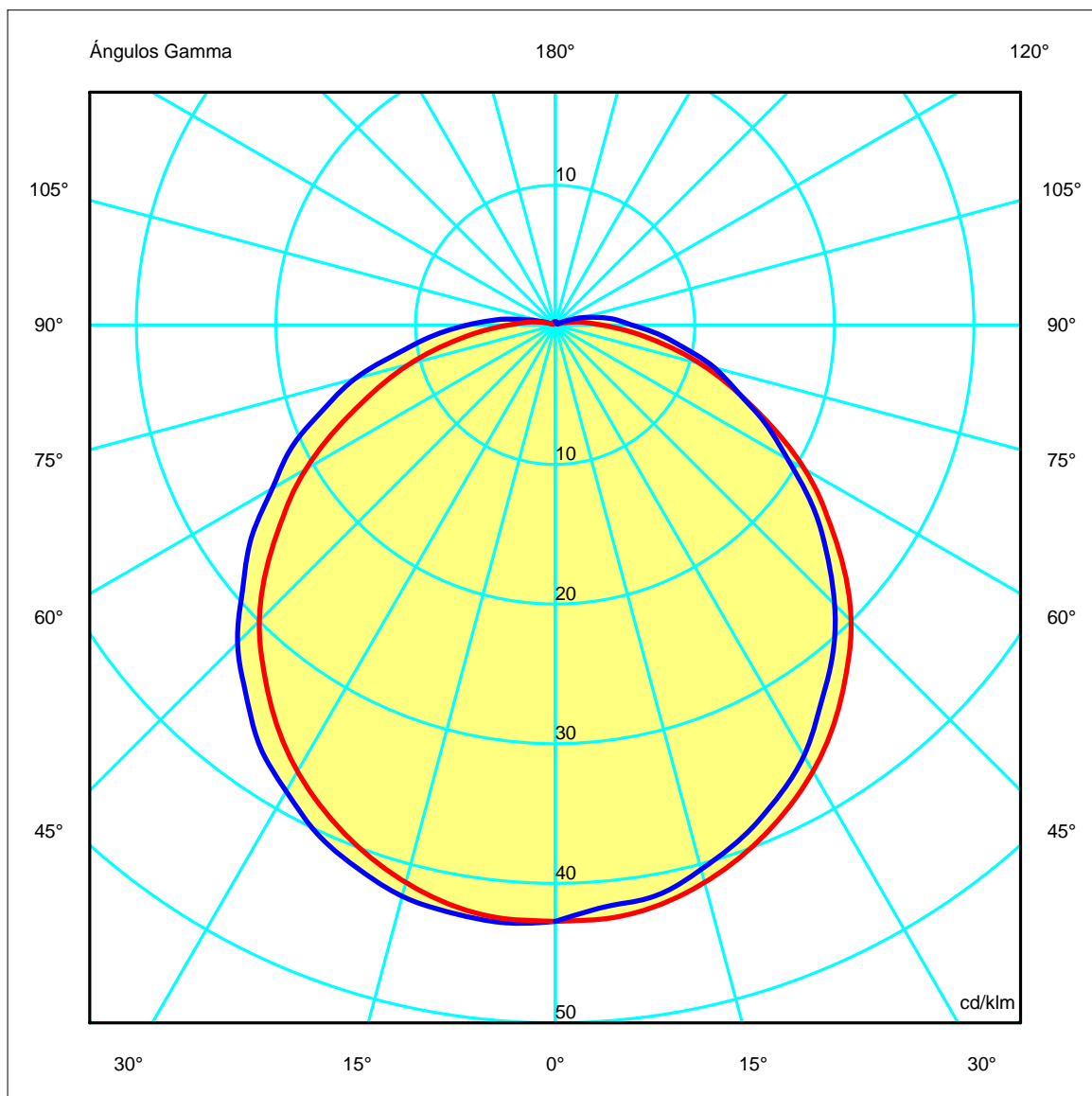
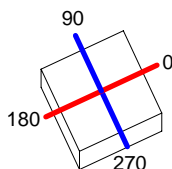
Luminaria		Ensayo								Lámpara			
Código	TAM TAM + 3 SATEL	Código TAM TAM + 3 SATEL								Código	DLX EL FCY 18W827E27		
Nombre	TAM TAM 9x18W FBT+3 satel opal	NombreTAM TAM 9x18W FBT+3 satel opal								Número	9		
Familia	- MARSET	Fecha 05-07-2012								Posición	Universal		
Rendimiento	14.18%	Sist. de Coordin.				C-G				Flujo Total		9900.00 lm	
Tabla de Intensidad Luminosa cd/klm													
Tabla 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	42.72	42.72	42.72	42.72	42.72	42.72	42.72	42.72	42.72	42.72	42.72	42.72	42.72
G 5.0	42.97	43.01	42.73	42.82	42.67	42.68	42.68	42.35	42.31	42.21	42.28	42.10	41.82
G 10.0	42.76	42.94	42.44	42.66	42.26	42.32	42.24	41.72	41.76	41.33	41.51	41.28	41.52
G 15.0	42.36	42.56	41.96	42.15	41.51	41.64	41.35	40.67	40.74	40.47	40.48	40.05	40.38
G 20.0	41.41	41.74	40.91	41.27	40.07	40.58	40.15	39.36	39.54	39.04	39.21	38.71	39.09
G 25.0	40.26	40.72	39.60	40.06	38.93	39.29	38.66	37.76	37.89	37.30	37.62	36.82	37.48
G 30.0	38.56	39.37	37.99	38.52	37.03	37.51	36.92	35.77	36.12	35.27	35.62	35.03	35.64
G 35.0	36.87	37.56	36.01	36.69	35.05	35.47	34.84	33.54	33.74	33.01	33.44	32.49	33.16
G 40.0	34.48	35.47	33.82	34.43	32.47	33.16	32.45	31.00	31.48	30.37	30.93	30.08	30.91
G 45.0	32.18	33.00	31.18	31.92	29.91	30.66	29.98	28.28	28.59	27.73	28.26	27.01	28.30
G 50.0	29.20	30.47	28.44	29.14	27.06	27.58	26.95	25.12	25.90	24.78	25.30	24.29	25.38
G 55.0	26.57	27.63	25.52	26.17	23.79	24.78	23.74	21.90	22.59	21.71	22.28	21.00	22.46
G 60.0	23.39	24.61	22.38	22.98	20.73	21.06	20.64	18.74	19.81	18.75	19.16	18.26	19.23
G 65.0	20.87	21.72	19.57	19.70	16.98	17.90	17.04	15.71	16.60	15.78	16.36	15.27	16.56
G 70.0	17.66	18.85	16.37	16.49	13.94	14.11	13.73	12.60	13.92	12.75	13.55	12.97	13.82
G 75.0	14.84	15.79	13.23	13.41	10.58	11.11	10.82	9.62	10.57	9.76	10.84	10.40	11.82
G 80.0	11.34	12.65	10.12	10.39	8.16	8.19	7.84	6.39	7.78	6.95	8.25	8.38	9.35
G 85.0	8.80	9.56	7.47	7.64	5.97	6.17	5.36	3.96	4.72	4.58	6.20	6.18	7.39
G 90.0	6.21	7.20	5.32	5.59	4.64	4.31	3.33	1.83	2.68	3.10	4.41	4.85	5.48
G 95.0	4.29	4.93	3.84	4.34	3.42	3.27	2.10	0.82	1.23	2.07	3.36	3.54	4.37
G100.0	2.25	3.26	2.48	3.19	2.41	2.06	1.17	0.19	0.59	1.10	2.21	2.51	3.10
G105.0	0.90	1.61	1.54	2.07	1.28	1.16	0.49	0.16	0.21	0.44	1.32	1.32	2.05
G110.0	0.16	0.69	0.62	1.04	0.57	0.40	0.16	0.17	0.17	0.17	0.51	0.57	0.95
G115.0	0.14	0.17	0.17	0.34	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.37
G120.0	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.17
G125.0	0.16	0.16	0.16	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.18	0.18
G130.0	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19
G135.0	0.17	0.17	0.17	0.18	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.19	0.19
G140.0	0.18	0.18	0.18	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
G145.0	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21
G150.0	0.20	0.19	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.21
G155.0	0.20	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22
G160.0	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.23	0.22	0.23	0.22	0.22	0.22
G165.0	0.22	0.21	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22
G170.0	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.23	0.23	0.23	0.23
G175.0	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23
G180.0	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23

Luminaria		Ensayo		Lámpara	
Código	TAM TAM + 3 SATEL	Código	TAM TAM + 3 SATEL	Código	DLX EL FCY 18W827E27
Nombre	TAM TAM 9x18W FBT+3 satel opal	Nombre	TAM TAM 9x18W FBT+3 satel opal	Número	9
Familia	- MARSET	Fecha	05-07-2012	Posición	Universal
Rendimiento	14.18%	Sist. de Coord.	C-G	Flujo Total	9900.00 lm

1000mm x 1000mm

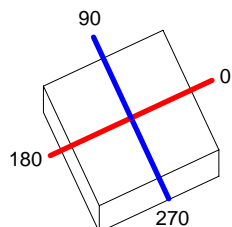
Semiplanos C

270.0 —————
 180.0 ————— 0.0
 ————— 90.0



Luminaria		Ensayo		Lámpara	
Código	TAM TAM + 3 SATEL	Código	TAM TAM + 3 SATEL	Código	DLX EL FCY 18W827E27
Nombre	TAM TAM 9x18W FBT+3 satel opal	Nombre	TAM TAM 9x18W FBT+3 satel opal	Número	9
Familia	- MARSET	Fecha	05-07-2012	Posición	Universal
Rendimiento	14.18%	Sist. de Coorden.	C-G	Flujo Total	9900.00 lm

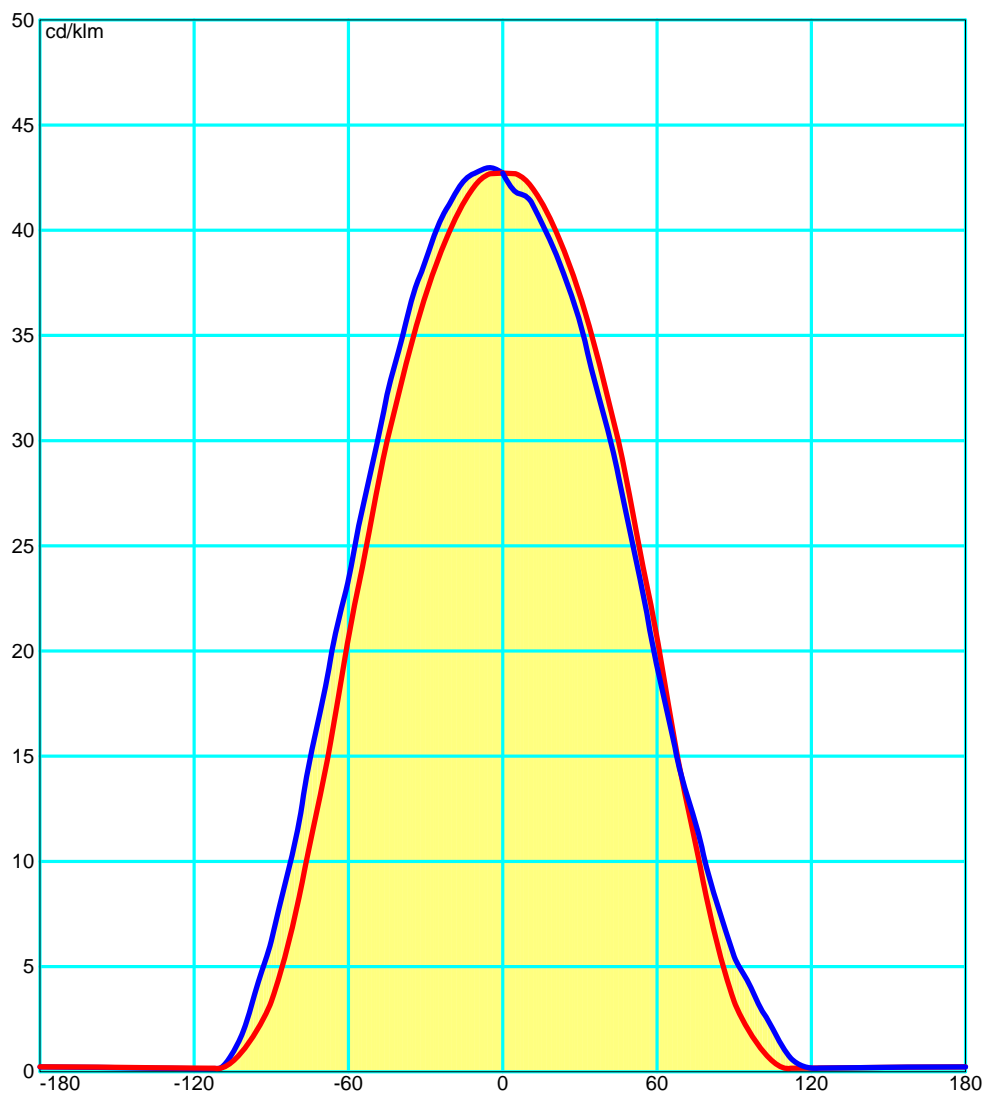
1000mm x 1000mm



Semiplanos C

270.0 ———— 0.0

180.0 ———— 90.0



Luminaria				Ensayo				Lámpara			
Código	TAM TAM + 3 SATEL			Código	TAM TAM + 3 SATEL			Código	DLX EL FCY 18W827E27		
Nombre	TAM TAM 9x18W FBT+3 satel opal			Nombre	TAM TAM 9x18W FBT+3 satel opal			Número	9		
Familia	- MARSET			Fecha	05-07-2012			Posición	Universal		
Rendimiento	14.18%			Sist. de Coord.	C-G			Flujo Total	9900.00 lm		

Flujo Total=9900.00 Flujo Luminaria=1404.24

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	0.43	0.50	0.55	0.64	0.69	0.74	0.79	0.82	0.90	0.95
RC	6	6	6	6	6	6	6	6	6	6	6	6

Flujo Zonal por 1000 Lúmenes

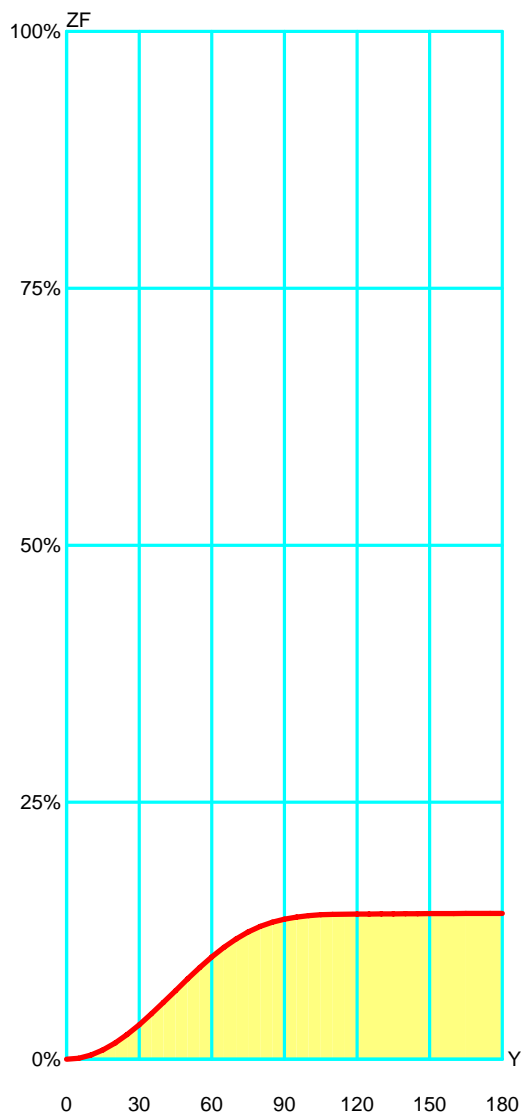
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	4	16	33	55	78	99	117	129	136	140	141	141	141	142	142	142	142	142

Códigos de Flujo C.I.E.

43 73 91 96 14

C.I.E. 6
D DIN 5040 A31
F UTE 0.14 G + 0.01 T
B NBN BZ 5
RN 3.91281 %
BLF 1.0

LOR 14.18425 %
ULOR 0.55500 %
DLOR 13.62925 %
UFF 3.91281 %
DFF 96.08719 %
FFR 4.07214 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	1.02	1.02	0.72 %	0.72 %
10°	3.03	4.04	2.13 %	2.85 %
15°	4.94	8.99	3.48 %	6.33 %
20°	6.70	15.69	4.72 %	11.06 %
25°	8.25	23.94	5.82 %	16.88 %
30°	9.55	33.49	6.73 %	23.61 %
35°	10.54	44.03	7.43 %	31.04 %
40°	11.20	55.23	7.89 %	38.94 %
45°	11.50	66.73	8.11 %	47.04 %
50°	11.44	78.16	8.06 %	55.11 %
55°	11.02	89.18	7.77 %	62.87 %
60°	10.29	99.47	7.25 %	70.12 %
65°	9.31	108.78	6.57 %	76.69 %
70°	8.15	116.93	5.75 %	82.44 %
75°	6.85	123.78	4.83 %	87.27 %
80°	5.46	129.24	3.85 %	91.12 %
85°	4.11	133.35	2.90 %	94.01 %
90°	2.94	136.29	2.08 %	96.09 %
95°	2.06	138.36	1.45 %	97.54 %
100°	1.38	139.74	0.98 %	98.52 %
105°	0.82	140.56	0.58 %	99.10 %
110°	0.41	140.97	0.29 %	99.38 %
115°	0.17	141.14	0.12 %	99.50 %
120°	0.09	141.23	0.06 %	99.57 %
125°	0.08	141.31	0.06 %	99.62 %
130°	0.08	141.39	0.06 %	99.68 %
135°	0.07	141.46	0.05 %	99.73 %
140°	0.07	141.53	0.05 %	99.78 %
145°	0.07	141.60	0.05 %	99.83 %
150°	0.06	141.66	0.04 %	99.87 %
155°	0.05	141.71	0.04 %	99.91 %
160°	0.05	141.76	0.03 %	99.94 %
165°	0.04	141.79	0.03 %	99.97 %
170°	0.03	141.82	0.02 %	99.98 %
175°	0.02	141.84	0.01 %	100.00 %
180°	0.01	141.84	0.00 %	100.00 %

Luminaria		Ensayo		Lámpara	
Código	TAM TAM + 3 SATEL	Código	TAM TAM + 3 SATEL	Código	DLX EL FCY 18W827E27
Nombre	TAM TAM 9x18W FBT+3 satel opal	Nombre	TAM TAM 9x18W FBT+3 satel opal	Número	9
Familia	- MARSET	Fecha	05-07-2012	Posición	Universal
Rendimiento	14.18%	Sist. de Coorden.	C-G	Flujo Total	9900.00 lm

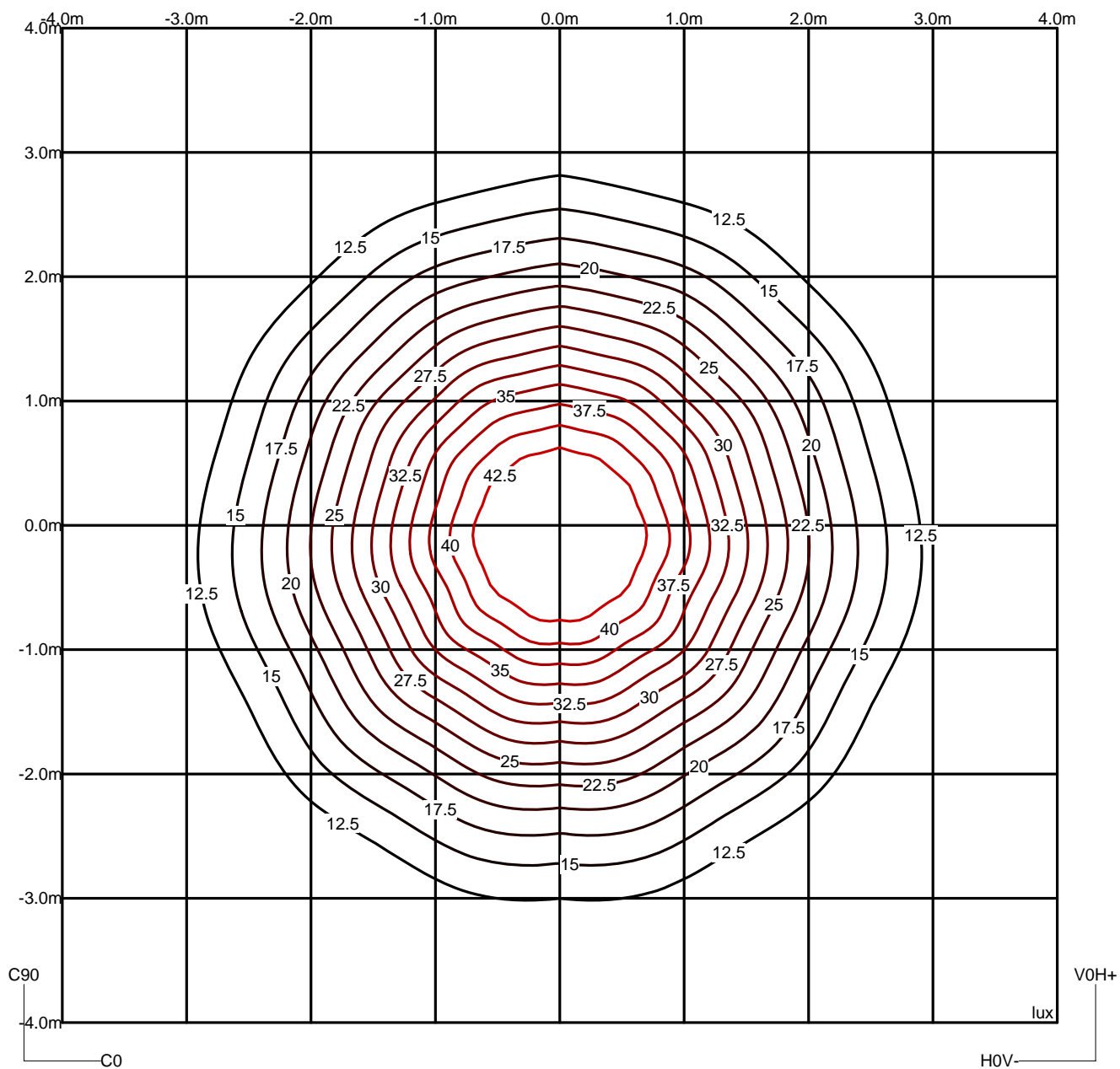
UGR
S = 0.250

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	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	9.1	10.4	9.5	10.7	10.5	8.6	9.9	9.0	10.2	10.5
x=2H y=3H	11.0	12.1	11.3	12.5	12.5	10.6	11.7	10.9	12.1	12.5
x=2H y=4H	11.8	12.9	12.1	13.2	13.4	11.5	12.6	11.8	12.9	13.4
x=2H y=6H	12.6	13.7	13.0	14.0	14.4	12.6	13.6	13.0	14.0	14.4
x=2H y=8H	12.9	13.9	13.3	14.4	15.0	13.1	14.1	13.5	14.6	15.0
x=2H y=12H	13.3	14.3	13.8	14.8	15.6	13.7	14.7	14.2	15.2	15.6
x=4H y=2H	10.0	11.1	10.3	11.4	11.3	9.4	10.5	9.8	10.9	11.3
x=4H y=3H	11.9	13.0	12.5	13.4	13.4	11.5	12.5	12.0	13.0	13.4
x=4H y=4H	13.0	13.9	13.4	14.3	14.4	12.7	13.6	13.1	14.1	14.4
x=4H y=6H	13.9	14.7	14.3	15.1	15.6	13.9	14.7	14.3	15.1	15.6
x=4H y=8H	14.3	15.1	14.8	15.5	16.2	14.5	15.3	15.0	15.7	16.2
x=4H y=12H	14.8	15.4	15.3	15.9	16.9	15.2	15.9	15.8	16.3	16.9
x=8H y=4H	13.5	14.2	14.0	14.6	14.8	13.1	13.9	13.6	14.3	14.8
x=8H y=6H	14.6	15.2	15.2	15.7	16.2	14.5	15.2	15.1	15.6	16.2
x=8H y=8H	15.2	15.8	15.8	16.4	17.0	15.4	15.9	15.9	16.5	17.0
x=8H y=12H	15.9	16.3	16.4	16.9	17.8	16.3	16.7	16.8	17.3	17.8
x=12H y=4H	13.6	14.2	14.1	14.7	14.9	13.2	13.8	13.7	14.3	14.9
x=12H y=6H	14.9	15.4	15.4	16.0	16.4	14.7	15.3	15.3	15.8	16.4
x=12H y=8H	15.5	16.0	16.1	16.5	17.1	15.6	16.0	16.1	16.6	17.1

Luminaria		Ensayo		Lámpara	
Código	TAM TAM + 3 SATEL	Código	TAM TAM + 3 SATEL	Código	DLX EL FCY 18W827E27
Nombre	TAM TAM 9x18W FBT+3 satel opal	Nombre	TAM TAM 9x18W FBT+3 satel opal	Número	9
Familia	- MARSET	Fecha	05-07-2012	Posición	Universal
Rendimiento	14.18%	Sist. de Coord.	C-G	Flujo Total	9900.00 lm

Isolux (Suelo)

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



Luminaria				Ensayo				Lámpara			
Código	TAM	TAM + 3	SATEL	Código	TAM	TAM + 3	SATEL	Código	DLX	EL	FCY 18W827E27
Nombre	TAM	TAM 9x18W	FBT+3 satel opal	Nombre	TAM	TAM 9x18W	FBT+3 satel opal	Número	9		
Familia	-	MARSET		Fecha	05-07-2012			Posición	Universal		
Rendimiento	14.18%			Sist. de Coorden.	C-G			Flujo Total	9900.00 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	35	31	29	26	30	25	19	16	16	14	10	8	6	4	13	8	7	5	4	7	4	4	2	
0.80	40	37	31	29	35	27	24	21	18	16	12	10	7	5	15	10	9	6	5	9	5	5	2	
1.00	44	41	32	30	39	28	27	24	20	18	13	11	8	6	17	11	10	7	6	10	6	6	3	
1.25	47	44	32	30	42	29	31	28	21	19	14	12	9	8	18	13	12	8	7	11	7	7	3	
1.50	49	47	31	30	45	29	34	31	21	20	15	13	10	9	19	13	13	9	8	12	8	8	3	
2.00	52	50	30	29	48	28	38	35	22	21	16	15	12	10	19	15	14	11	10	13	10	9	4	
2.50	54	52	29	28	50	27	41	39	22	21	17	16	13	11	20	16	15	12	11	14	11	10	4	
3.00	55	53	28	28	51	27	43	41	22	21	18	16	14	12	20	16	16	13	12	15	12	11	4	
4.00	56	55	27	27	53	26	46	45	22	21	18	17	15	14	20	17	17	14	13	16	13	13	4	
5.00	57	56	26	26	54	25	48	47	22	21	19	18	16	15	21	18	17	15	15	17	14	14	5	
10.00	59	59	24	24	57	23	53	52	22	21	20	19	18	17	21	19	19	17	17	18	17	16	5	
20.00	60	60	23	23	58	22	56	55	21	21	20	20	19	19	21	20	19	19	18	19	18	18	5	

Pared

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	0000
0.60	67	65	59	58	64	57	51	49	46	45	39	38	33	33	30
0.80	76	74	66	64	73	63	59	58	53	52	45	44	40	39	35
1.00	83	81	70	68	79	67	66	64	57	56	50	49	44	44	39
1.25	89	87	73	72	84	71	72	70	62	61	55	53	49	48	43
1.50	93	91	75	74	89	73	77	75	65	64	58	57	53	52	46
2.00	98	97	77	76	94	75	83	82	68	67	63	61	58	57	50
2.50	102	100	78	78	97	76	88	86	71	70	65	64	61	60	52
3.00	104	103	79	79	99	77	91	90	72	71	68	67	64	63	54
4.00	109	108	81	81	104	79	97	95	75	75	71	71	68	67	57
5.00	112	111	83	83	107	81	101	100	78	77	74	74	71	70	60
10.00	120	120	88	88	115	87	112	111	85	84	83	82	81	80	68
20.00	126	126	92	92	121	91	119	119	90	90	89	88	87	87	74

P.Trab.

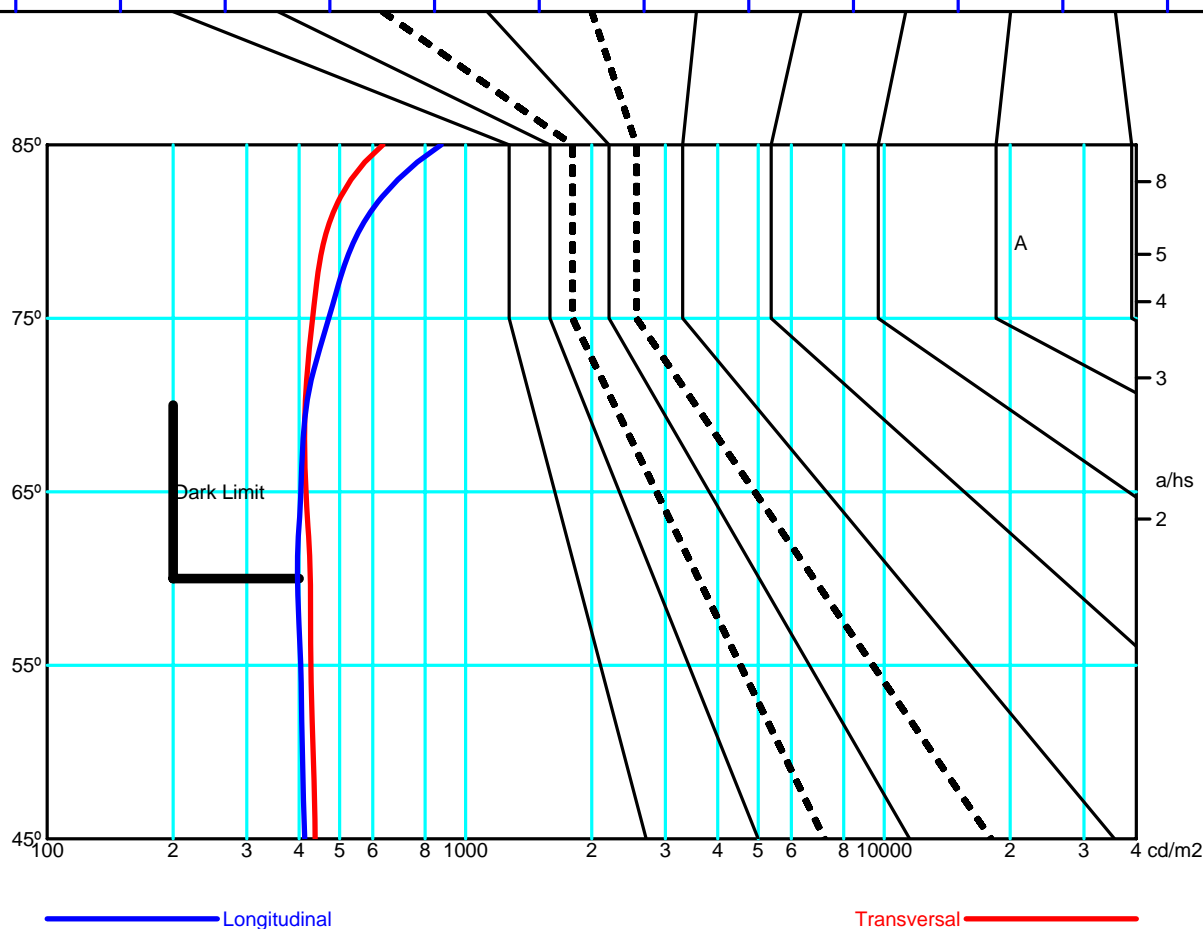
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	0000
0.60	80	78	75	73	77	72	60	59	58	57	48	47	41	41	38
0.80	95	93	87	86	91	84	74	72	70	69	60	59	53	52	49
1.00	107	104	97	96	102	94	85	83	81	79	71	69	63	62	58
1.25	118	115	106	105	112	103	97	94	90	89	81	79	73	72	68
1.50	126	124	113	111	120	109	105	103	98	96	89	87	81	80	75
2.00	138	136	122	121	132	118	119	116	109	108	101	99	94	92	87
2.50	146	144	128	127	140	124	128	126	116	115	109	107	103	101	95
3.00	152	150	132	131	145	129	135	133	121	120	115	113	109	108	100
4.00	159	158	137	136	152	134	143	142	128	127	122	121	117	116	108
5.00	164	163	140	139	157	137	149	147	132	131	127	126	123	121	112
10.00	174	173	146	146	166	143	162	161	140	140	138	137	135	134	123
20.00	179	179	149	149	171	147	169	168	145	145	144	143	142	142	129

LM53 SHR C0-C180: 1.274 SHR C90-C270: 1.238 SHR Superficial: 1.358

Luminaria		Ensayo		Lámpara	
Código	TAM TAM + 3 SATEL	Código	TAM TAM + 3 SATEL	Código	DLX EL FCY 18W827E27
Nombre	TAM TAM 9x18W FBT+3 satel opal	Nombre	TAM TAM 9x18W FBT+3 satel opal	Número	9
Familia	- MARSET	Fecha	05-07-2012	Posición	Universal
Rendimiento	14.18%	Sist. de Coord.	C-G	Flujo Total	9900.00 lm

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
270°	469.1	468.3	477.6	482.1	508.9	532.1	591.1	673.3	1041.2	---
0°	437.0	432.2	426.7	425.5	415.6	413.7	430.8	465.2	634.1	---
90°	412.6	407.1	403.7	396.4	403.8	416.6	470.9	555.2	873.9	---

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 + 3 SATEL
 Nombre TAM TAM 9x18W FBT+3 satel opal
 Familia - MARSET

Ensayo

Código TAM TAM + 3 SATEL
 Nombre TAM TAM 9x18W FBT+3 satel opal
 Fecha 05-07-2012

Lámpara

Código DLX EL FCY 18W827E27
 Número 9
 Posición Universal

Rendimiento 14.18%

Sist. de Coord. C-G

Flujo Total 9900.00 lm

Luminancia

G/C	0	30	60	90	120	150	180	210	240	270	300	330
0°	440.35	440.35	440.35	440.35	440.35	440.35	440.35	440.35	440.35	440.35	440.35	440.35
5°	441.68	437.85	437.46	432.76	437.46	437.85	441.68	441.55	442.16	444.66	442.16	441.55
10°	442.09	437.10	434.45	434.59	434.45	437.10	442.09	442.31	444.27	447.58	444.27	442.31
15°	441.23	434.78	432.02	430.92	432.02	434.78	441.23	442.95	447.76	452.09	447.76	442.95
20°	440.39	433.79	430.17	428.86	430.17	433.79	440.39	439.53	448.76	454.30	448.76	439.53
25°	439.66	430.91	427.85	426.28	427.85	430.91	439.66	442.75	450.38	457.91	450.38	442.75
30°	439.48	429.93	424.02	424.21	424.02	429.93	439.48	440.78	452.14	458.93	452.14	440.78
35°	438.38	424.63	420.83	417.32	420.83	424.63	438.38	441.06	453.09	464.02	453.09	441.06
40°	436.71	423.66	416.21	415.97	416.21	423.66	436.71	436.94	455.05	463.95	455.05	436.94
45°	437.00	416.85	412.02	412.58	412.02	416.85	437.00	436.02	454.54	469.10	454.54	436.02
50°	432.24	415.32	405.71	407.07	405.71	415.32	432.24	434.01	456.07	468.33	456.07	434.01
55°	426.68	405.94	400.38	403.66	400.38	405.94	426.68	427.61	458.70	477.55	458.70	427.61
60°	425.55	408.45	394.94	396.38	394.94	408.45	425.55	427.32	461.43	482.15	461.43	427.32
65°	415.56	404.82	399.04	403.81	399.04	404.82	415.56	414.10	477.36	508.93	477.36	414.10
70°	413.70	419.42	408.44	416.62	408.44	413.70	413.70	420.02	493.44	532.14	493.44	420.02
75°	430.84	420.82	431.79	470.85	431.79	420.82	430.84	421.51	526.95	591.11	526.95	421.51
80°	465.20	461.75	489.59	555.16	489.59	461.75	465.20	484.36	600.78	673.32	600.78	484.36
85°	634.12	558.04	733.38	873.93	733.38	558.04	634.12	706.29	883.71	1041.18	883.71	706.29

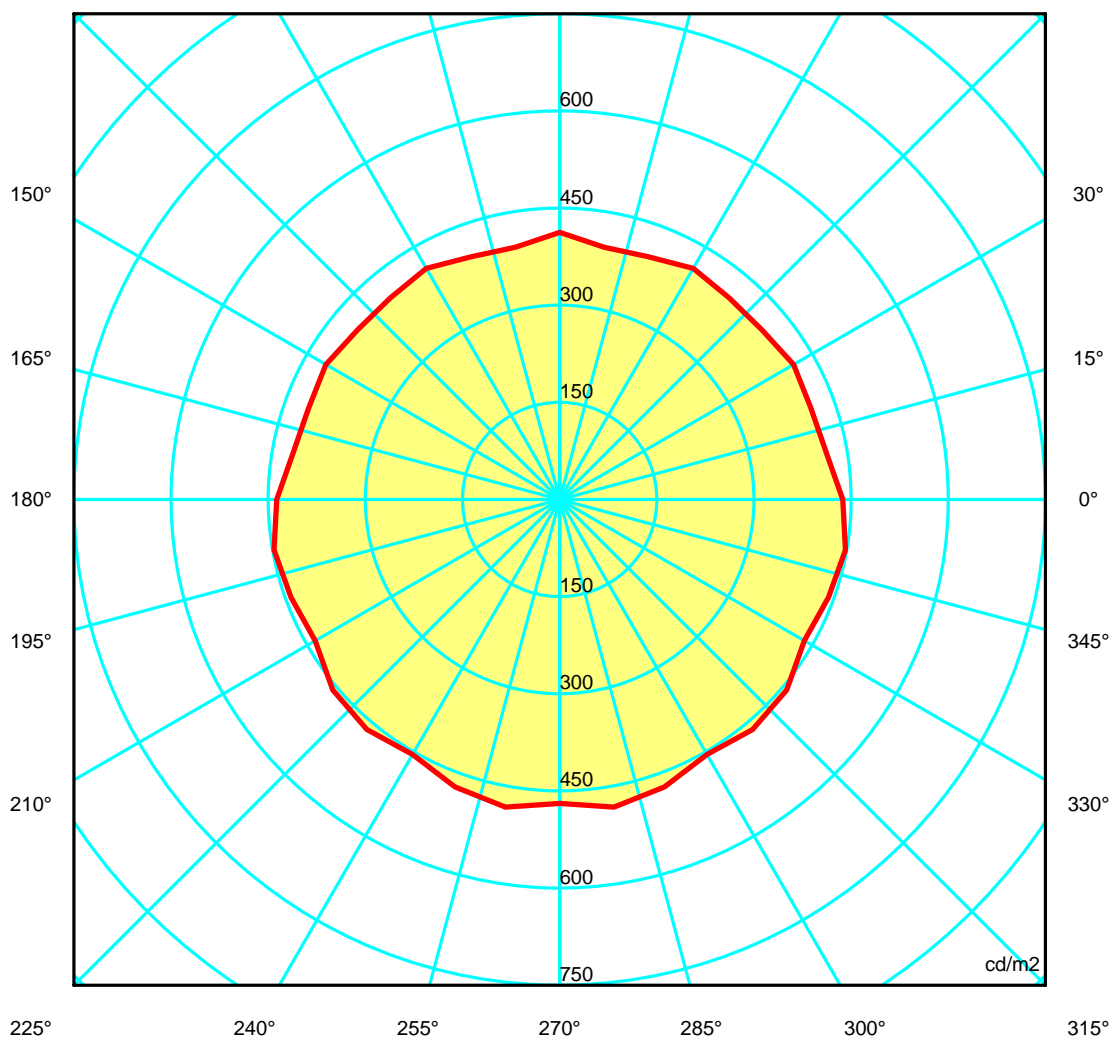
Semiplanos C

90°

75°

60°

45°



45.0°