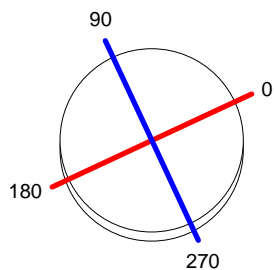


Luminaria		Ensayo		Lámpara	
Código	NENUFAR 2	Código	NENUFAR 2	Código	NENUFAR 2
Nombre	NENUFAR 2 LED 18W 2700K 24V	Nombre	NENUFAR 2 LED 18W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coorden.	CG	Flujo Total	522.08 lm
Valor Máximo	368.64 cd/klm	Posición	C=285.00 G=15.00	Asimétrico	
Luminaria Redonda	Diam.	250 mm	Altura	190 mm	
Área Luminosa Redonda	Diam.	215 mm	Altura	0 mm	
Área Luminosa Horizontal	0.036305 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°	0.008783 m2	
Tipo de Simetría	Asimétrico	Máximo Ángulo Gamma	90		
Distancia de Ensayo	6.44	Flujo de Ensayo	522.08 lm		
Operador	Asselum T2	Tensión de alimentación	24.00 V		
Temperatura	20.00 °C	Corriente de alimentación			
Humedad	40.00 %	Fotocélula	PRC		
Notas					

Lámparas de la Luminaria					
Familia	Código	Nombre	Flujo [lm]	Pot. [W]	Cant.
- MARSET	NENUFAR 2	Lámpara led blanco 18W	522.08	18.00	1
C.I.E.	45 77 95 100 100	D DIN 5040			
F UTE	1.00 E	B NBN			
		A30			
		BZ 5			

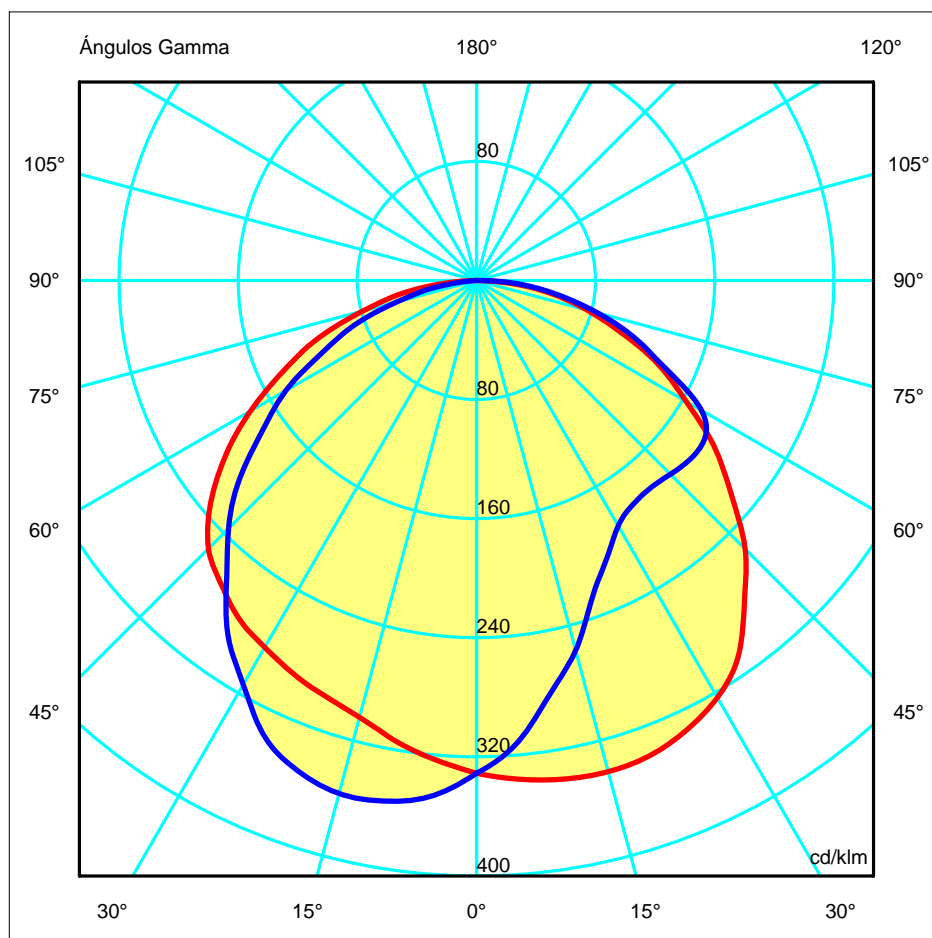
Diam=250mm



Semiplanos C

180.0 — 0.0
 270.0 — 90.0

ULOR 0.00 %
 DLOR 100.00 %
 RN 0.00 %



Luminaria				Ensayo						Lámpara				
Código	NENUFAR 2			Código	NENUFAR 2						Código	NENUFAR 2		
Nombre	NENUFAR 2 LED 18W 2700K 24V			Nombre	NENUFAR 2 LED 18W 2700K 24V						Número	1		
Familia	- MARSET			Fecha	29-11-2013						Posición	Universal		
Rendimiento		100.00%		Sist. de Coordin.		CG				Flujo Total		522.08 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	330.94	330.94	330.94	330.94	330.94	330.94	330.94	330.94	330.94	330.94	330.94	330.94		
G 5.0	336.29	332.00	327.82	321.53	318.03	307.37	311.93	300.28	305.02	305.60	310.30	316.24		
G 10.0	340.00	331.33	323.50	312.60	300.58	286.84	282.51	271.98	278.03	279.40	290.20	297.75		
G 15.0	341.47	329.34	318.05	301.43	286.35	267.25	257.21	240.68	242.86	246.98	265.88	284.63		
G 20.0	339.73	325.76	312.89	292.99	270.41	244.34	227.00	204.73	212.08	221.68	247.73	273.79		
G 25.0	333.35	318.28	305.74	283.38	258.93	230.85	206.58	185.21	182.30	198.67	230.45	263.95		
G 30.0	323.48	308.55	298.68	275.49	248.41	220.13	190.26	173.38	173.65	188.52	220.65	258.18		
G 35.0	306.93	291.76	287.38	264.78	240.95	214.89	183.49	164.82	163.86	187.03	216.09	252.13		
G 40.0	280.02	268.63	275.57	256.67	235.22	211.26	181.77	170.52	159.45	191.25	214.30	245.87		
G 45.0	255.16	237.89	254.12	244.16	228.93	209.90	184.12	178.52	168.32	195.64	212.71	234.78		
G 50.0	223.26	211.04	226.52	216.51	221.21	206.69	187.02	184.87	177.82	197.03	207.76	221.89		
G 55.0	195.09	185.01	200.93	190.08	199.22	191.36	186.65	184.56	180.67	191.74	199.16	197.56		
G 60.0	162.64	152.64	168.62	157.38	172.65	164.33	174.41	167.08	171.55	164.76	172.24	162.89		
G 65.0	135.71	124.89	141.34	129.54	139.98	129.89	140.67	132.79	144.00	135.46	144.57	133.70		
G 70.0	104.47	92.52	108.32	96.80	112.56	102.73	113.39	104.40	110.86	100.75	116.44	98.45		
G 75.0	77.15	66.87	81.66	70.16	86.70	69.58	84.53	70.84	83.76	72.52	81.95	70.57		
G 80.0	51.77	37.68	51.04	42.60	54.56	44.65	55.46	45.24	58.10	40.99	55.36	38.60		
G 85.0	23.19	15.74	27.01	17.56	29.62	18.44	30.46	16.41	27.46	16.62	25.12	15.12		
G 90.0	1.79	2.22	2.81	3.18	3.56	3.63	3.60	3.36	3.01	2.60	2.35	1.88		
	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	330.94	330.94	330.94	330.94	330.94	330.94	330.94	330.94	330.94	330.94	330.94	330.94		
G 5.0	322.91	327.89	333.08	339.30	341.82	346.05	347.67	349.85	345.13	350.61	343.22	345.06		
G 10.0	314.01	324.72	333.62	343.87	347.28	357.36	355.01	363.77	353.90	361.59	351.38	352.69		
G 15.0	303.60	319.83	331.80	346.43	348.56	361.61	356.74	368.64	355.90	367.91	353.19	357.22		
G 20.0	297.17	315.76	327.88	344.61	343.61	359.49	350.53	365.94	351.26	366.31	350.00	356.43		
G 25.0	291.38	310.81	319.91	336.82	333.31	350.59	337.40	356.05	334.75	356.34	337.80	350.53		
G 30.0	284.47	302.78	309.78	325.45	311.69	332.87	313.23	337.47	315.08	337.63	318.40	336.90		
G 35.0	277.68	293.20	294.51	303.97	290.18	308.23	290.98	311.26	287.99	311.09	291.57	315.38		
G 40.0	266.64	277.02	268.14	282.11	261.99	284.74	261.05	287.11	263.51	287.33	267.46	286.63		
G 45.0	254.62	257.41	243.40	258.78	236.89	254.18	235.43	255.41	232.39	261.46	235.19	260.93		
G 50.0	233.00	226.64	211.92	226.65	211.11	227.39	208.00	227.83	205.11	227.03	208.09	227.81		
G 55.0	206.18	200.10	183.79	198.45	177.26	194.47	175.22	192.77	177.20	198.32	180.59	199.37		
G 60.0	175.25	167.24	149.35	164.27	148.48	165.66	147.76	164.22	143.74	163.00	146.16	164.17		
G 65.0	142.54	136.82	120.69	135.30	114.55	133.23	114.01	133.98	116.25	135.07	119.20	136.84		
G 70.0	113.17	108.95	89.56	100.46	87.34	102.65	87.22	102.21	84.32	100.88	86.76	108.13		
G 75.0	78.77	75.12	60.10	73.38	55.59	74.32	55.07	75.26	58.36	74.43	61.27	76.74		
G 80.0	51.88	49.28	35.10	46.12	31.39	43.83	31.45	43.87	29.02	49.28	31.93	50.30		
G 85.0	22.15	20.06	8.86	17.93	5.50	18.87	7.89	19.62	8.83	19.42	10.94	21.66		
G 90.0	1.55	1.41	1.41	1.47	1.49	1.57	1.55	1.62	1.55	1.54	1.46	1.60		

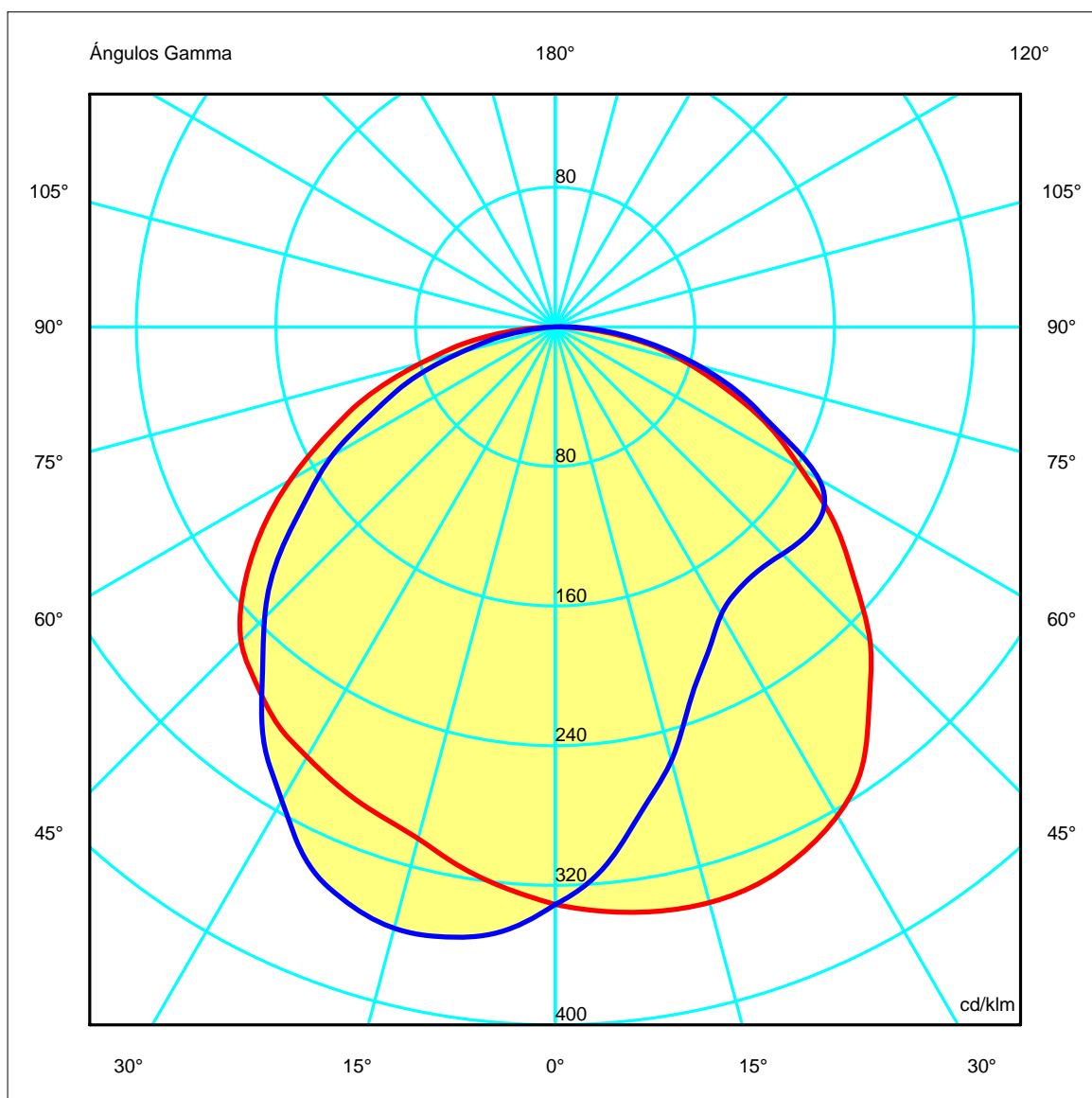
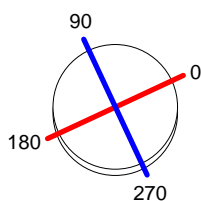
Luminaria		Ensayo		Lámpara	
Código	NENUFAR 2	Código	NENUFAR 2	Código	NENUFAR 2
Nombre	NENUFAR 2 LED 18W 2700K 24V	Nombre	NENUFAR 2 LED 18W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coord.	CG	Flujo Total	522.08 lm

Diam=250mm

Semiplanos C

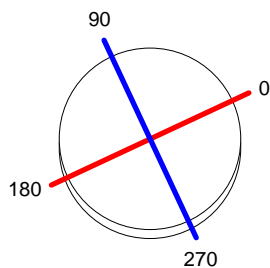
180.0 ————— 0.0

270.0 ————— 90.0



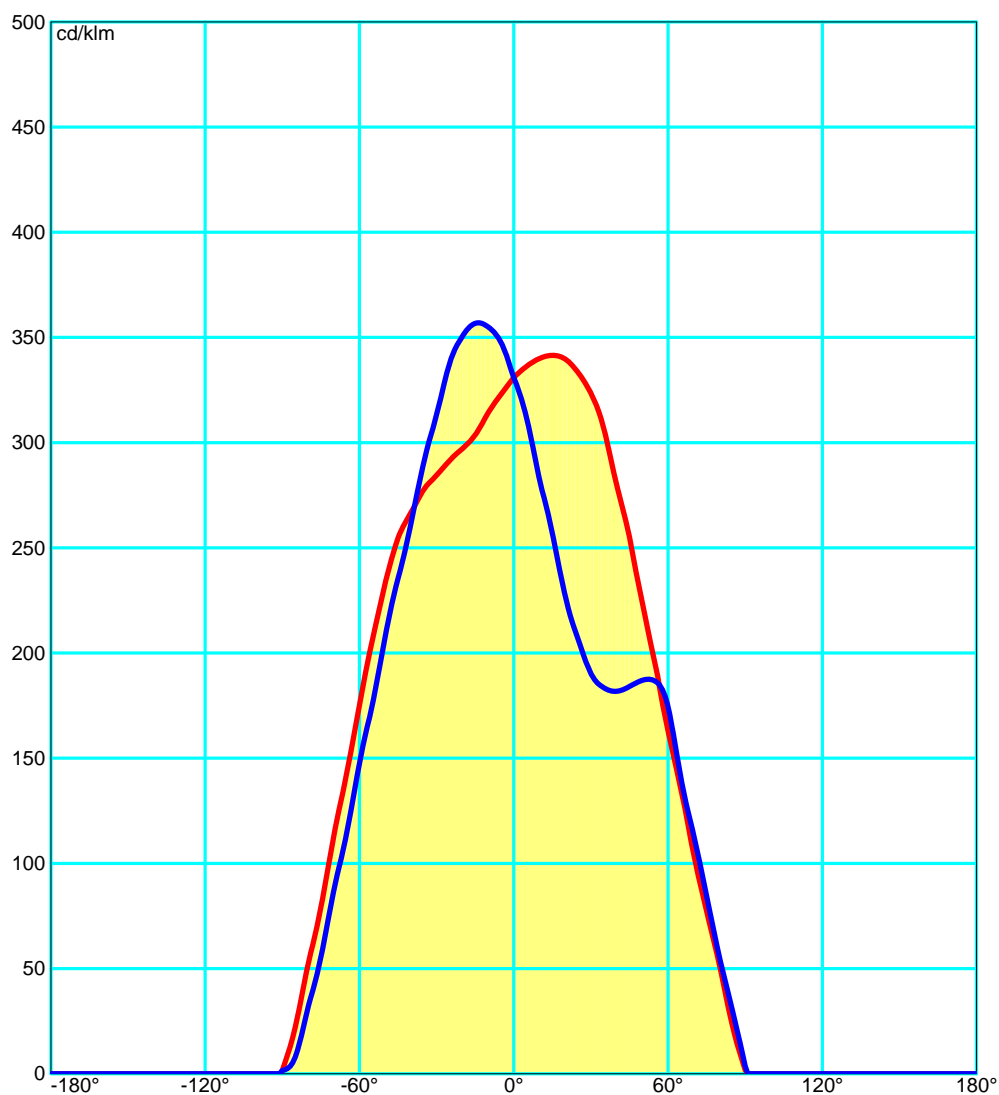
Luminaria		Ensayo		Lámpara	
Código	NENUFAR 2	Código	NENUFAR 2	Código	NENUFAR 2
Nombre	NENUFAR 2 LED 18W 2700K 24V	Nombre	NENUFAR 2 LED 18W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coorden.	CG	Flujo Total	522.08 lm

Diam=250mm



Semiplanos C

180.0 ————— 0.0
 270.0 ————— 90.0



Luminaria		Ensayo		Lámpara	
Código	NENUFAR 2	Código	NENUFAR 2	Código	NENUFAR 2
Nombre	NENUFAR 2 LED 18W 2700K 24V	Nombre	NENUFAR 2 LED 18W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coorden.	CG	Flujo Total	522.08 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	18.2	19.6	18.5	19.8	19.8	17.9	19.3	18.2	19.5	19.8
x=2H y=3H	19.9	21.2	20.3	21.4	21.3	19.5	20.7	19.8	21.0	21.3
x=2H y=4H	20.7	21.8	21.0	22.1	21.8	20.1	21.3	20.5	21.6	21.8
x=2H y=6H	21.2	22.3	21.6	22.6	22.2	20.5	21.6	20.9	21.9	22.2
x=2H y=8H	21.5	22.5	21.8	22.8	22.3	20.6	21.6	21.0	22.0	22.3
x=2H y=12H	21.6	22.6	22.0	22.9	22.3	20.6	21.6	21.0	21.9	22.3
x=4H y=2H	19.0	20.1	19.3	20.4	20.4	18.7	19.8	19.0	20.1	20.4
x=4H y=3H	20.9	21.9	21.2	22.2	22.0	20.4	21.4	20.7	21.7	22.0
x=4H y=4H	21.7	22.6	22.1	22.9	22.7	21.1	22.0	21.5	22.4	22.7
x=4H y=6H	22.4	23.1	22.8	23.5	23.2	21.7	22.5	22.1	22.8	23.2
x=4H y=8H	22.6	23.3	23.1	23.7	23.4	21.9	22.6	22.3	23.0	23.4
x=4H y=12H	22.8	23.5	23.3	23.9	23.4	21.9	22.6	22.4	23.0	23.4
x=8H y=4H	22.0	22.7	22.5	23.1	23.0	21.5	22.2	21.9	22.6	23.0
x=8H y=6H	22.8	23.4	23.3	23.9	23.6	22.1	22.7	22.6	23.1	23.6
x=8H y=8H	23.2	23.7	23.6	24.1	23.8	22.4	22.9	22.8	23.3	23.8
x=8H y=12H	23.4	23.8	23.9	24.3	23.9	22.5	23.0	23.0	23.4	23.9
x=12H y=4H	22.1	22.7	22.5	23.1	23.0	21.5	22.1	21.9	22.6	23.0
x=12H y=6H	22.9	23.4	23.4	23.9	23.6	22.2	22.7	22.7	23.2	23.6
x=12H y=8H	23.3	23.7	23.8	24.2	23.9	22.5	22.9	22.9	23.4	23.9

Luminaria				Ensayo				Lámpara			
Código	NENUFAR 2			Código	NENUFAR 2			Código	NENUFAR 2		
Nombre	NENUFAR 2 LED 18W 2700K 24V			Nombre	NENUFAR 2 LED 18W 2700K 24V			Número	1		
Familia	- MARSET			Fecha	29-11-2013			Posición	Universal		
Rendimiento	100.00%			Sist. de Coord.	CG			Flujo Total	522.08 lm		

Flujo Total=522.08 Flujo Luminaria=522.07

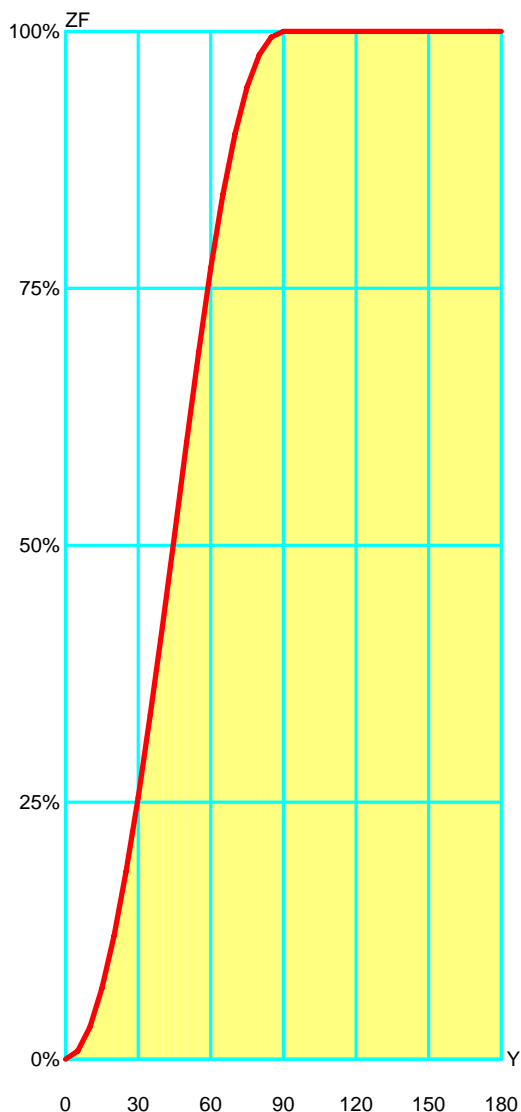
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.29	0.37	0.45	0.52	0.58	0.66	0.72	0.77	0.82	0.85	0.92	0.96
RC	5	5	5	5	5	5	5	5	5	5	5	5

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)	31	120	255	421	600	770	901	977	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.
45 77 95 100 100

C.I.E.	5
D DIN 5040	A30
F UTE	1.00 E
B NBN	BZ 5
RN	0.00000 %
BLF	1.0

LOR	99.99866 %
ULOR	0.00000 %
DLOR	99.99866 %
UFF	0.00000 %
DFF	100.00000 %
FFR	0.00000 %



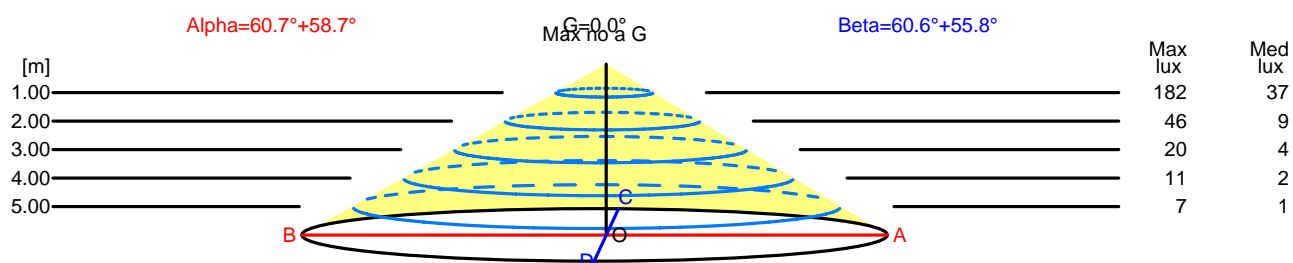
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	7.88	7.88	0.79 %	0.79 %
10°	23.31	31.19	2.33 %	3.12 %
15°	37.83	69.03	3.78 %	6.90 %
20°	51.01	120.04	5.10 %	12.00 %
25°	62.56	182.60	6.26 %	18.26 %
30°	72.34	254.94	7.23 %	25.49 %
35°	80.10	335.04	8.01 %	33.50 %
40°	85.75	420.79	8.57 %	42.08 %
45°	89.30	510.09	8.93 %	51.01 %
50°	90.19	600.28	9.02 %	60.03 %
55°	87.95	688.23	8.80 %	68.82 %
60°	81.64	769.87	8.16 %	76.99 %
65°	71.53	841.39	7.15 %	84.14 %
70°	59.13	900.52	5.91 %	90.05 %
75°	45.39	945.92	4.54 %	94.59 %
80°	31.26	977.18	3.13 %	97.72 %
85°	17.14	994.32	1.71 %	99.43 %
90°	5.67	999.99	0.57 %	100.00 %
95°	0.00	999.99	0.00 %	100.00 %
100°	0.00	999.99	0.00 %	100.00 %
105°	0.00	999.99	0.00 %	100.00 %
110°	0.00	999.99	0.00 %	100.00 %
115°	0.00	999.99	0.00 %	100.00 %
120°	0.00	999.99	0.00 %	100.00 %
125°	0.00	999.99	0.00 %	100.00 %
130°	0.00	999.99	0.00 %	100.00 %
135°	0.00	999.99	0.00 %	100.00 %
140°	0.00	999.99	0.00 %	100.00 %
145°	0.00	999.99	0.00 %	100.00 %
150°	0.00	999.99	0.00 %	100.00 %
155°	0.00	999.99	0.00 %	100.00 %
160°	0.00	999.99	0.00 %	100.00 %
165°	0.00	999.99	0.00 %	100.00 %
170°	0.00	999.99	0.00 %	100.00 %
175°	0.00	999.99	0.00 %	100.00 %
180°	0.00	999.99	0.00 %	100.00 %

Luminaria		Ensayo		Lámpara	
Código	NENUFAR 2	Código	NENUFAR 2	Código	NENUFAR 2
Nombre	NENUFAR 2 LED 18W 2700K 24V	Nombre	NENUFAR 2 LED 18W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coord.	CG	Flujo Total	522.08 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	1.65	3.29	4.94	6.58	8.23	OC	1.78	3.56	5.33	7.11	8.89
OB	1.78	3.56	5.34	7.12	8.90	OD	1.47	2.94	4.41	5.88	7.36

	Intensidades Luminosas [cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	172.78	175.57	178.27	174.03	160.24	133.21	101.85	70.85	40.28	12.11
OB	172.78	168.59	158.51	152.12	144.97	132.93	107.64	74.41	41.12	11.56
OC	172.78	162.85	134.28	107.85	95.80	96.12	97.45	73.44	44.13	15.90
OD	172.78	181.51	186.25	176.15	151.91	122.91	91.48	59.52	28.75	4.12



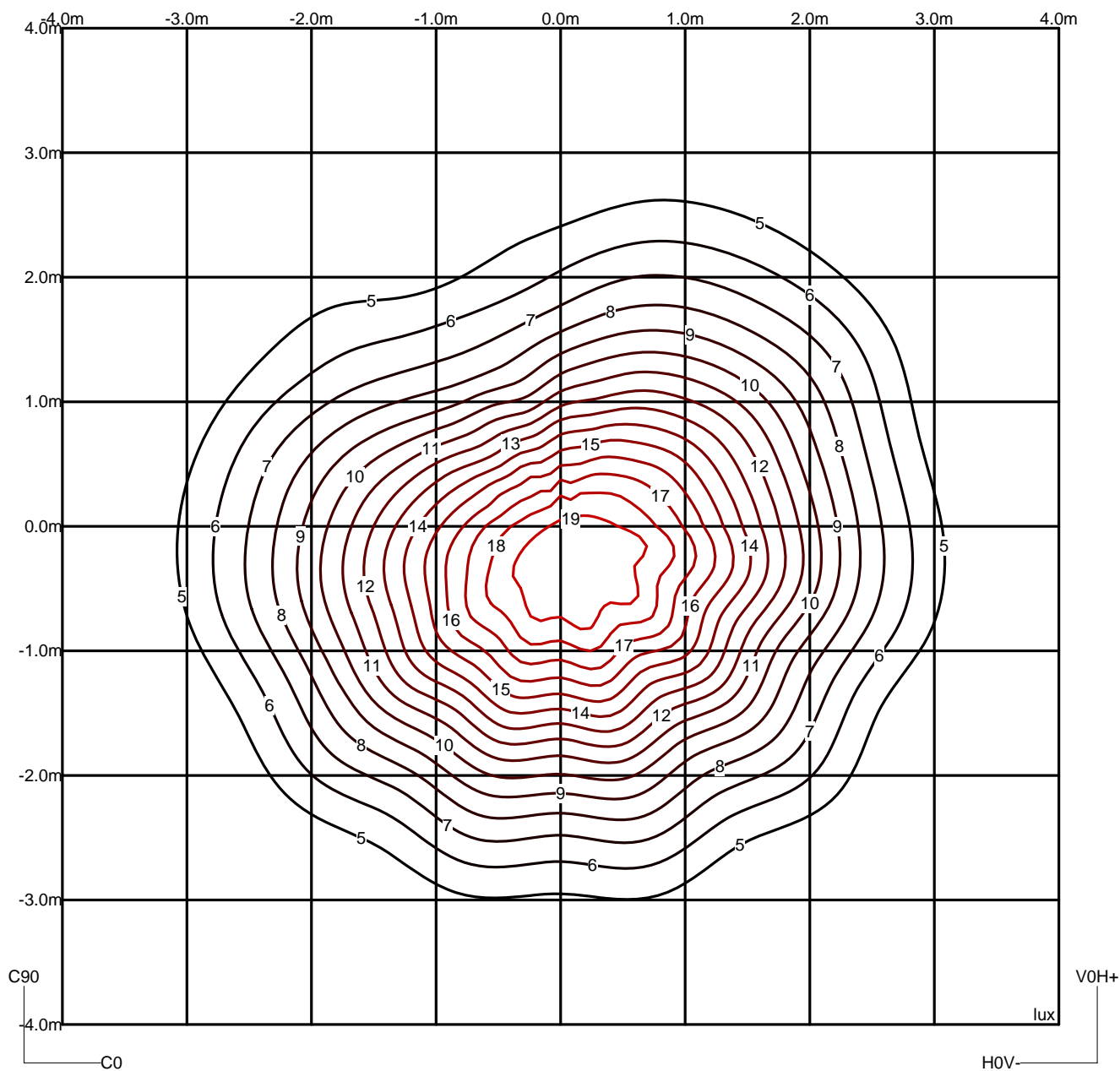
H[m]	D[m]	Max lux	Med lux	Alpha=60.7°+58.7°	G=0.0°	Max no a G
1.00	3.43	182	37			
2.00	6.85	46	9			
3.00	10.28	20	4			
4.00	13.70	11	2			
5.00	17.13	7	1			

H[m]	D[m]	Max lux	Med lux	Beta=55.8°+60.6°	G=0.0°	Max no a G
1.00	3.25	182	37			
2.00	6.50	46	9			
3.00	9.75	20	4			
4.00	13.00	11	2			
5.00	16.25	7	1			

Luminaria		Ensayo		Lámpara	
Código	NENUFAR 2	Código	NENUFAR 2	Código	NENUFAR 2
Nombre	NENUFAR 2 LED 18W 2700K 24V	Nombre	NENUFAR 2 LED 18W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coorden.	CG	Flujo Total	522.08 lm

Isolux (Suelo)

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



Luminaria										Ensayo										Lámpara									
Código	NENUFAR 2									Código	NENUFAR 2									Código	NENUFAR 2								
Nombre	NENUFAR 2 LED 18W 2700K 24V									Nombre	NENUFAR 2 LED 18W 2700K 24V									Número	1								
Familia	- MARSET									Fecha	29-11-2013									Posición	Universal								
Rendimiento	100.00%									Sist. de Coorden.	CG									Flujo Total	522.08 lm								

Utilización CIE

Montaje	Directo				Normalización				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	220	198	175	158	188	151	112	95	89	76	47	36	17	12	71	38	34	14	11	32	12	10	0					
0.80	255	234	187	172	222	165	141	123	102	90	57	45	23	17	84	47	43	20	16	41	17	15	0					
1.00	278	258	189	177	246	169	164	146	109	98	64	53	29	22	92	54	50	25	21	47	22	19	0					
1.25	297	280	186	177	267	170	187	170	114	104	70	60	36	28	98	61	57	31	27	54	28	25	0					
1.50	311	296	182	174	282	168	206	190	116	108	75	65	41	34	101	66	62	37	33	59	33	30	0					
2.00	329	316	171	165	301	160	235	220	117	110	81	73	51	44	104	73	70	46	42	67	42	39	0					
2.50	340	329	162	158	314	153	255	241	116	111	85	78	58	51	106	78	75	54	50	72	50	46	0					
3.00	348	338	155	151	323	147	271	258	116	111	88	82	64	57	106	81	79	59	56	76	55	52	0					
4.00	358	351	146	143	336	140	292	282	115	111	92	87	72	66	107	86	84	68	64	81	64	61	0					
5.00	365	359	140	138	344	135	307	298	114	111	95	91	78	73	107	90	88	74	71	85	70	67	0					
10.00	380	376	126	125	361	123	340	335	112	110	101	99	91	88	107	97	96	88	86	93	84	81	0					
20.00	387	385	117	117	370	115	359	356	110	109	104	103	99	97	106	101	100	96	95	98	93	91	0					

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	477	465	420	411	458	407	361	353	328	323	275	271	237	235	320	271	270	236	235	269	235	234	214						
0.80	538	525	460	452	516	446	420	410	372	366	319	314	279	277	361	314	312	278	276	310	276	275	251						
1.00	578	566	483	475	554	468	462	452	400	394	349	344	310	307	388	343	341	308	306	339	306	304	277						
1.25	614	602	499	493	587	485	501	491	424	418	376	371	338	335	411	369	367	335	333	364	333	331	301						
1.50	639	628	510	504	612	496	531	520	441	435	396	391	360	356	428	389	386	356	354	383	353	351	318						
2.00	665	656	512	508	636	500	567	556	455	450	417	411	384	380	441	408	406	379	377	401	375	372	335						
2.50	681	672	512	508	651	501	590	580	462	458	429	424	400	395	448	419	417	394	391	412	389	385	345						
3.00	690	682	509	506	660	498	605	596	465	461	435	431	409	405	451	426	424	403	400	417	397	392	351						
4.00	706	700	509	507	676	500	631	622	473	470	449	445	427	423	460	439	437	419	417	430	413	407	363						
5.00	719	713	511	510	687	502	649	642	480	477	459	456	440	436	466	448	447	432	430	439	424	418	372						
10.00	744	741	514	513	712	506	690	685	493	492	481	479	470	467	481	470	469	460	458	459	451	442	392						
20.00	749	748	506	506	717	499	705	702	492	491	485	484	479	477	479	474	473	468	467	462	457	447	395						

P.Trab.

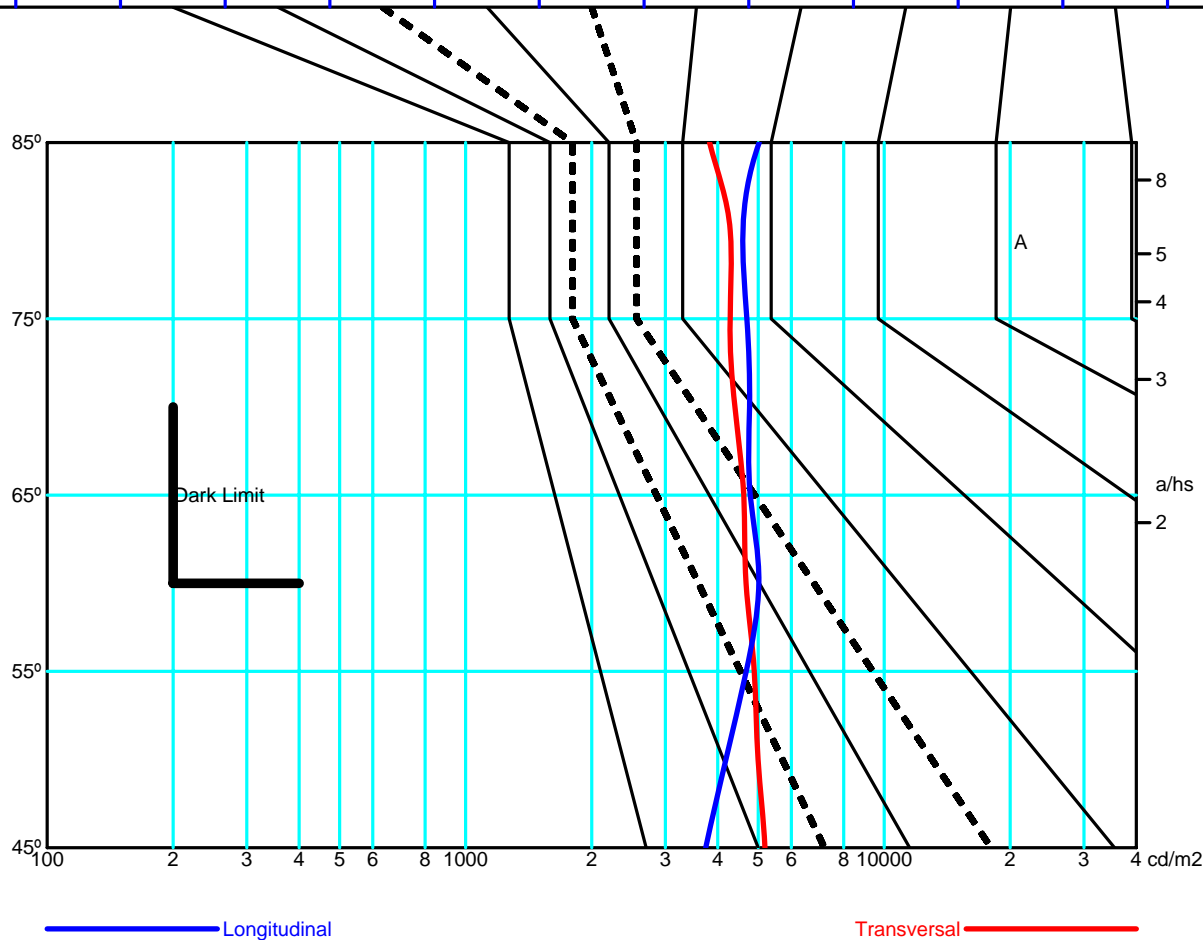
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000						
0.60	580	567	541	531	559	525	441	433	424	418	356	351	306	305	414	351	350	305	304	348	304	303	286						
0.80	689	674	634	624	662	616	543	533	518	511	448	442	395	392	505	441	439	393	391	437	391	390	371						
1.00	774	759	705	696	743	686	628	616	594	586	525	518	472	468	578	517	514	468	466	510	466	464	445						
1.25	855	840	770	762	820	750	711	698	666	658	600	593	548	543	648	590	587	543	541	582	540	537	519						
1.50	915	901	817	810	878	797	775	761	720	713	658	650	608	602	700	647	644	602	599	638	597	593	576						
2.00	1000	990	883	877	962	864	873	859	800	794	747	739	701	695	779	733	730	693	690	722	687	681	665						
2.50	1000	1000	924	919	1000	906	938	925	852	846	805	797	764	757	830	790	787	754	751	777	746	739	724						
3.00	1000	1000	952	948	1000	935	986	973	888	883	846	839	810	803	865	830	827	799	795	816	789	780	766						
4.00	1000	1000	986	983	1000	970	1000	1000	932	928	898	892	868	861	909	881	878	854	851	865	843	832	819						
5.00	1000	1000	1000	1000	1000	990	1000	1000	959	956	930	925	904	898	936	912	910	889	886	895	876	864	851						
10.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	999	996	984	980	992	979	977	966	963	960	949	933	922						
20.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	995	989	971	961						

LM53 SHR C0-C180: 1.413 SHR C90-C270: 0.849 SHR Superficial: 1.445

Luminaria		Ensayo		Lámpara	
Código	NENUFAR 2	Código	NENUFAR 2	Código	NENUFAR 2
Nombre	NENUFAR 2 LED 18W 2700K 24V	Nombre	NENUFAR 2 LED 18W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coord.	CG	Flujo Total	522.08 lm

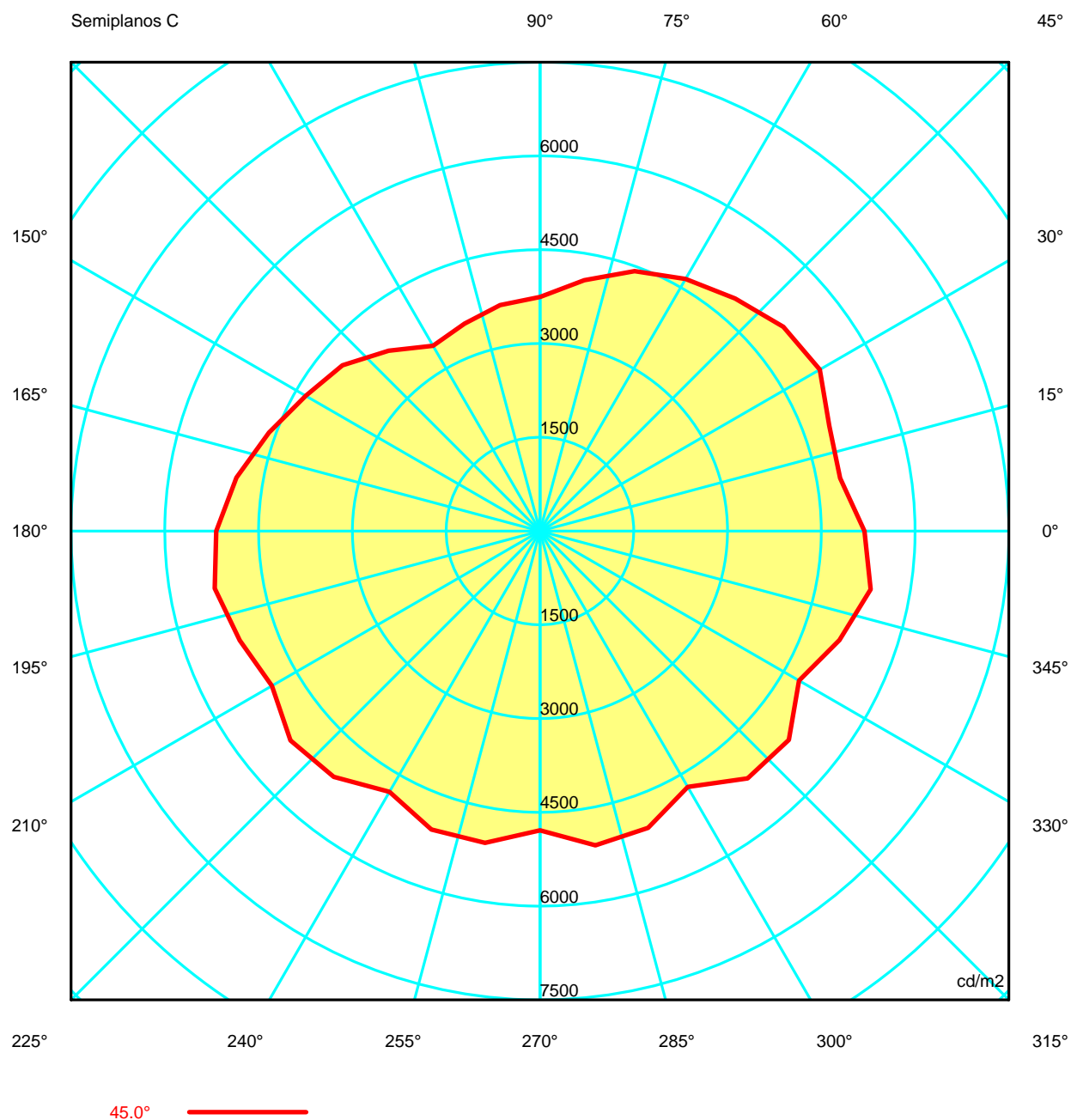
	Luminancia Media [cd/m²]									
	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	5189	4995	4891	4678	4618	4392	4286	4287	3826	---
90.0°	3744	4184	4680	5016	4786	4768	4697	4593	5026	---

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		Ensayo		Lámpara	
Código	NENUFAR 2	Código	NENUFAR 2	Código	NENUFAR 2
Nombre	NENUFAR 2 LED 18W 2700K 24V	Nombre	NENUFAR 2 LED 18W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coord.	CG	Flujo Total	522.08 lm

Luminancia



Luminaria					Ensayo					Lámpara				
Código	NENUFAR 2				Código	NENUFAR 2				Código	NENUFAR 2			
Nombre	NENUFAR 2 LED 18W 2700K 24V				Nombre	NENUFAR 2 LED 18W 2700K 24V				Número	1			
Familia	- MARSET				Fecha	29-11-2013				Posición	Universal			
Rendimiento		100.00%			Sist. de Coord.		CG			Flujo Total		522.08 lm		
Luminance cd/m2					Tabla 1/3									
	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00	
G 0.0	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	
G 5.0	4854.45	4811.54	4775.50	4732.25	4665.86	4630.93	4590.93	4469.66	4455.07	4502.80	4386.26	4357.44	4403.06	
G 10.0	4964.81	4877.99	4801.82	4723.86	4620.21	4510.69	4389.12	4241.52	4164.67	4125.31	4007.22	3984.00	4059.87	
G 15.0	5083.67	4959.63	4851.60	4735.00	4570.34	4415.16	4263.09	4062.33	3925.80	3829.28	3648.94	3569.17	3615.60	
G 20.0	5199.01	5051.98	4924.25	4788.22	4592.71	4375.41	4138.15	3859.30	3649.71	3473.87	3214.36	3131.69	3245.51	
G 25.0	5289.20	5121.76	4989.53	4851.11	4625.14	4370.42	4108.43	3809.47	3528.99	3277.82	3031.19	2885.44	2892.58	
G 30.0	5371.45	5192.39	5074.26	4959.60	4721.98	4424.79	4124.92	3818.54	3483.01	3159.32	2939.91	2851.60	2883.48	
G 35.0	5388.18	5183.58	5099.97	5045.06	4803.14	4502.61	4230.00	3940.08	3585.63	3221.23	2971.90	2844.08	2876.66	
G 40.0	5256.61	5067.43	5087.04	5173.10	4973.11	4674.76	4415.67	4137.87	3765.41	3412.30	3269.89	3090.56	2993.22	
G 45.0	5189.08	4874.06	4924.43	5168.00	5081.60	4855.73	4655.73	4425.95	4075.03	3744.37	3669.84	3532.12	3423.13	
G 50.0	4994.77	4732.85	4828.54	5067.58	4923.44	4855.70	4948.87	4784.85	4447.57	4184.10	4154.01	4064.58	3978.23	
G 55.0	4891.18	4635.83	4769.75	5037.68	4851.52	4806.27	4994.67	4894.34	4731.82	4679.63	4656.89	4576.92	4529.59	
G 60.0	4677.66	4383.93	4546.45	4849.68	4605.41	4636.22	4965.47	4801.56	4792.63	5016.16	4876.62	4831.06	4933.88	
G 65.0	4617.75	4247.50	4435.96	4809.34	4524.20	4490.24	4763.19	4511.09	4509.84	4786.47	4584.07	4621.85	4899.81	
G 70.0	4392.29	3900.27	4111.55	4554.45	4185.22	4240.87	4732.55	4444.93	4424.39	4767.56	4502.04	4462.83	4660.97	
G 75.0	4286.47	3712.92	4001.03	4536.91	4026.31	4175.72	4817.44	4123.37	4059.10	4696.74	4153.28	4100.45	4654.06	
G 80.0	4287.43	3219.24	3454.41	4226.63	3697.75	3802.53	4518.60	3909.04	3938.89	4592.63	3926.12	4081.79	4811.44	
G 85.0	3825.75	2573.11	3253.39	4456.71	3236.66	3468.18	4887.26	3496.27	3595.43	5026.02	3349.59	3109.44	4531.16	
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Luminaria				Ensayo				Lámpara					
Código	NENUFAR 2			Código	NENUFAR 2			Código	NENUFAR 2				
Nombre	NENUFAR 2 LED 18W 2700K 24V			Nombre	NENUFAR 2 LED 18W 2700K 24V			Número	1				
Familia	- MARSET			Fecha	29-11-2013			Posición	Universal				
Rendimiento	100.00%			Sist. de Coordin.	CG			Flujo Total	522.08 lm				
Luminance cd/m2				Tabla 2/3									
	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 0.0	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08
G 5.0	4408.68	4425.11	4479.34	4535.51	4597.35	4661.37	4711.29	4755.46	4808.15	4872.67	4912.61	4934.28	4977.05
G 10.0	4067.84	4122.58	4237.49	4304.17	4418.11	4585.19	4699.91	4781.10	4871.61	4982.41	5037.28	5071.13	5183.22
G 15.0	3641.09	3751.28	3958.39	4147.55	4330.85	4519.96	4691.34	4819.00	4939.78	5103.49	5170.06	5189.21	5337.53
G 20.0	3327.90	3501.53	3791.14	4063.84	4312.88	4547.72	4753.37	4891.01	5017.68	5214.82	5270.65	5258.33	5445.31
G 25.0	3033.27	3302.30	3656.61	4018.80	4344.47	4623.29	4854.00	4977.10	5076.00	5284.52	5327.46	5288.66	5504.33
G 30.0	3016.72	3280.58	3663.94	4092.22	4452.10	4723.60	4954.25	5061.34	5143.83	5366.40	5325.79	5175.68	5448.45
G 35.0	3122.48	3443.36	3793.55	4222.03	4598.91	4874.75	5090.94	5155.53	5170.27	5321.63	5249.29	5094.13	5339.75
G 40.0	3362.53	3754.95	4022.95	4418.99	4771.31	5005.44	5188.02	5133.61	5033.57	5258.24	5171.16	4918.14	5247.00
G 45.0	3766.70	4124.77	4325.97	4612.36	4928.87	5178.20	5282.63	5111.58	4950.10	5208.56	5131.99	4817.56	5079.26
G 50.0	4245.71	4514.16	4647.88	4848.24	5072.15	5212.69	5174.49	4916.20	4741.09	5001.54	4969.19	4722.91	5006.80
G 55.0	4693.31	4903.30	4993.30	4949.88	5012.19	5169.20	5139.62	4828.69	4607.95	4911.39	4818.42	4444.25	4764.73
G 60.0	4780.51	4804.19	4953.67	4748.29	4760.58	5040.26	4984.58	4571.74	4295.46	4630.69	4594.16	4270.46	4644.22
G 65.0	4687.77	4691.89	4919.28	4661.40	4589.64	4850.04	4825.90	4400.47	4106.83	4518.22	4390.63	3897.67	4371.13
G 70.0	4300.03	4447.15	4895.82	4365.59	4219.00	4758.26	4804.44	4238.93	3765.72	4116.61	4060.19	3672.36	4161.43
G 75.0	4216.05	4148.45	4553.39	4124.06	3964.00	4376.34	4405.29	3797.51	3339.19	3944.53	3770.63	3088.69	3876.94
G 80.0	3753.19	3688.75	4584.60	3630.63	3323.85	4296.21	4425.18	3556.35	2906.35	3637.67	3469.72	2599.59	3355.95
G 85.0	3275.50	3045.59	4144.51	3035.36	2593.01	3654.27	3803.20	2495.54	1461.86	2682.71	2328.76	907.72	2518.72
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaria				Ensayo						Lámpara			
Código	NENUFAR 2			Código NENUFAR 2						Código	NENUFAR 2		
Nombre	NENUFAR 2 LED 18W 2700K 24V			NombreNENUFAR 2 LED 18W 2700K 24V						Número	1		
Familia	- MARSET			Fecha 29-11-2013						Posición	Universal		
Rendimiento		100.00%			Sist. de Coordin.		CG		Flujo Total		522.08 lm		
Luminance cd/m2 Tabla 3/3													
	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00
G 0.0	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08	4759.08
G 5.0	4661.37	4711.29	4755.46	4808.15	4872.67	4912.61	4934.28	4977.05	5004.44	5018.77	5051.54	5024.39	4982.12
G 10.0	4585.19	4699.91	4781.10	4871.61	4982.41	5037.28	5071.13	5183.22	5210.11	5183.87	5287.20	5272.13	5167.69
G 15.0	4519.96	4691.34	4819.00	4939.78	5103.49	5170.06	5189.21	5337.53	5364.85	5311.03	5452.04	5434.88	5298.52
G 20.0	4547.72	4753.37	4891.01	5017.68	5214.82	5270.65	5258.33	5445.31	5464.51	5364.23	5545.54	5540.14	5375.50
G 25.0	4623.29	4854.00	4977.10	5076.00	5284.52	5327.46	5288.66	5504.33	5501.28	5353.60	5586.42	5554.12	5311.41
G 30.0	4723.60	4954.25	5061.34	5143.83	5366.40	5325.79	5175.68	5448.45	5434.51	5201.13	5501.97	5510.31	5231.89
G 35.0	4874.75	5090.94	5155.53	5170.27	5321.63	5249.29	5094.13	5339.75	5323.92	5108.17	5384.31	5350.55	5055.69
G 40.0	5005.44	5188.02	5133.61	5033.57	5258.24	5171.16	4918.14	5247.00	5220.88	4900.41	5260.77	5281.74	4946.70
G 45.0	5178.20	5282.63	5111.58	4950.10	5208.56	5131.99	4817.56	5079.26	5063.15	4787.83	5104.55	5053.14	4726.12
G 50.0	5212.69	5174.49	4916.20	4741.09	5001.54	4969.19	4722.91	5006.80	4961.00	4653.34	4992.79	4958.82	4588.64
G 55.0	5169.20	5139.62	4828.69	4607.95	4911.39	4818.42	4444.25	4764.73	4749.70	4392.92	4712.74	4729.47	4442.64
G 60.0	5040.26	4984.58	4571.74	4295.46	4630.69	4594.16	4270.46	4644.22	4627.24	4249.72	4611.69	4560.87	4134.04
G 65.0	4850.04	4825.90	4400.47	4106.83	4518.22	4390.63	3897.67	4371.13	4360.72	3879.30	4374.78	4412.32	3955.75
G 70.0	4758.26	4804.44	4238.93	3765.72	4116.61	4060.19	3672.36	4161.43	4141.84	3667.15	4147.88	4092.87	3545.31
G 75.0	4376.34	4405.29	3797.51	3339.19	3944.53	3770.63	3088.69	3876.94	3843.17	3059.88	3867.31	3971.69	3242.41
G 80.0	4296.21	4425.18	3556.35	2906.35	3637.67	3469.72	2599.59	3355.95	3360.30	2604.56	3409.10	3250.00	2403.27
G 85.0	3654.27	3803.20	2495.54	1461.86	2682.71	2328.76	907.72	2518.72	2681.15	1302.31	2711.67	2810.18	1456.98
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00