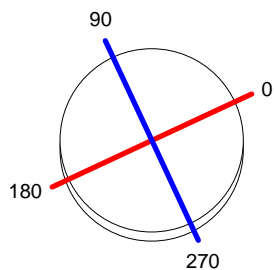


<b>Luminaria</b>		<b>Ensayo</b>		<b>Lámpara</b>	
Código	NENUFAR 3	Código	NENUFAR 3	Código	NENUFAR 3
Nombre	NENUFAR 3 LED 27W 2700K 24V	Nombre	NENUFAR 3 LED 27W 2700K 24V	Número	1
Familia	- MARSET	Fecha	02-12-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coorden.	CG	Flujo Total	611.63 lm
Valor Máximo	366.29 cd/klm	Posición	C=255.00 G=20.00	Asimétrico	
Luminaria Redonda	Diam.	250 mm	Altura	360 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	611.63 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 3	Lámpara led blanco 27W	611.63	27.00	1
C.I.E.	43 77 95 100 100	D DIN 5040		A30	
F UTE	1.00 E	B NBN		BZ 5	

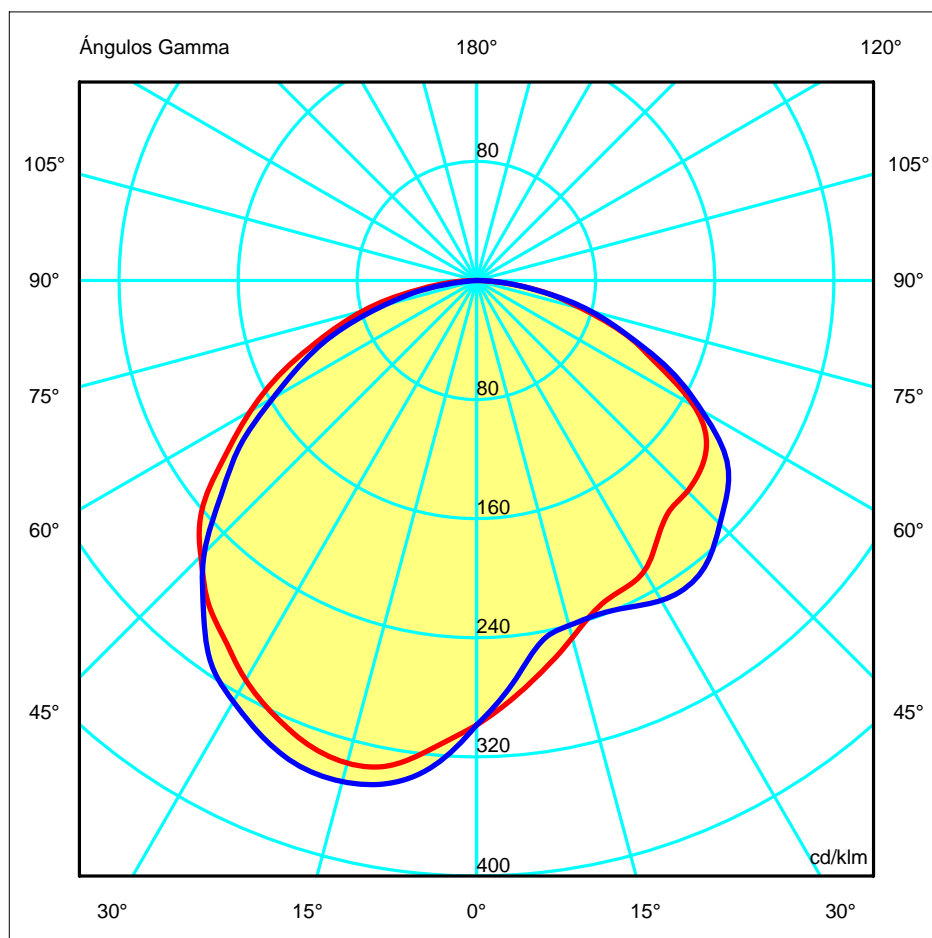
Diam=250mm



Semiplanos C

180.0 — 0.0  
 270.0 — 90.0

ULOR 0.00 %  
 DLOR 100.00 %  
 RN 0.00 %



Luminaria				Ensayo						Lámpara			
Código	NENUFAR 3			Código	NENUFAR 3						Código	NENUFAR 3	
Nombre	NENUFAR 3 LED 27W 2700K 24V			Nombre	NENUFAR 3 LED 27W 2700K 24V						Número	1	
Familia	- MARSET			Fecha	02-12-2013						Posición	Universal	
Rendimiento	100.00%			Sist. de Coordin.	CG						Flujo Total	611.63 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	298.63	298.63	298.63	298.63	298.63	298.63	298.63	298.63	298.63	298.63	298.63	298.63	
G 5.0	281.68	267.48	271.75	264.18	260.31	259.71	272.35	279.57	283.59	295.88	304.59	312.69	
G 10.0	264.59	244.62	235.56	222.30	227.48	236.32	246.94	265.87	275.55	292.87	308.34	319.21	
G 15.0	248.50	227.85	209.83	201.69	205.39	231.35	239.95	261.28	268.99	287.62	307.92	317.83	
G 20.0	234.88	219.61	200.74	210.02	199.26	232.74	238.67	258.04	263.05	277.57	300.32	307.96	
G 25.0	229.65	221.25	208.06	229.73	215.96	248.37	242.18	254.51	254.34	259.32	283.11	294.69	
G 30.0	225.34	222.00	220.93	248.45	233.75	260.66	248.13	245.09	245.05	244.35	268.08	279.91	
G 35.0	211.85	216.24	227.84	257.11	248.55	265.79	249.47	236.09	229.96	229.83	255.81	267.84	
G 40.0	201.81	213.42	227.37	255.16	249.79	259.28	243.25	228.59	214.87	222.36	243.22	253.08	
G 45.0	200.26	210.28	221.09	244.44	244.18	247.24	231.12	221.32	210.25	215.11	233.62	240.11	
G 50.0	196.57	203.50	212.37	227.20	228.33	225.70	220.05	213.07	204.55	208.25	221.42	220.35	
G 55.0	188.61	188.23	195.45	196.15	202.29	199.05	203.82	195.67	196.70	196.53	208.43	194.49	
G 60.0	168.81	160.36	171.36	166.17	168.70	162.53	174.57	168.35	175.28	164.79	177.00	160.99	
G 65.0	135.12	125.56	136.50	129.76	139.07	132.07	144.10	130.44	144.96	133.60	146.58	127.75	
G 70.0	107.46	96.48	108.78	100.14	104.83	95.09	108.42	99.28	107.94	96.74	115.28	97.80	
G 75.0	73.71	63.58	79.49	65.86	77.43	66.62	79.75	65.04	78.98	67.41	79.95	62.76	
G 80.0	47.79	37.42	48.90	38.65	50.61	36.53	46.65	36.55	51.93	34.58	51.90	36.16	
G 85.0	18.86	9.23	23.64	14.66	20.82	9.80	20.42	12.54	19.97	11.18	19.56	8.37	
G 90.0	0.97	0.99	1.15	1.35	1.25	1.32	1.38	1.56	1.75	1.85	1.75	1.51	
	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	298.63	298.63	298.63	298.63	298.63	298.63	298.63	298.63	298.63	298.63	298.63	298.63	
G 5.0	314.30	320.24	321.96	330.64	323.40	327.71	326.99	321.84	310.97	304.12	294.72	285.30	
G 10.0	330.61	338.00	336.29	353.39	339.15	349.91	343.03	339.59	320.16	308.74	291.61	271.39	
G 15.0	335.55	342.19	339.59	361.74	346.01	363.32	348.41	348.60	322.36	310.89	287.84	262.98	
G 20.0	331.46	340.39	337.78	364.94	346.72	366.29	347.15	347.08	316.10	306.35	281.12	254.48	
G 25.0	321.87	333.68	329.60	361.41	339.27	362.63	338.79	342.09	305.50	294.50	267.03	249.18	
G 30.0	309.90	318.31	312.90	347.06	324.46	352.11	326.60	329.43	295.36	283.11	254.81	242.44	
G 35.0	294.64	303.91	294.76	326.69	297.12	331.25	311.73	316.86	282.27	272.94	244.31	224.98	
G 40.0	280.96	287.31	265.65	296.79	272.17	307.11	285.48	299.57	270.25	261.80	237.71	219.06	
G 45.0	261.68	260.44	239.60	269.06	243.20	279.51	258.46	280.48	252.50	251.38	229.18	215.58	
G 50.0	241.11	232.56	210.29	237.65	212.00	244.60	223.85	253.40	227.40	236.08	219.29	211.43	
G 55.0	206.59	197.32	177.37	204.32	183.34	215.62	194.08	216.64	197.77	215.55	198.13	200.07	
G 60.0	175.30	167.70	148.93	174.11	149.15	178.14	157.87	185.23	161.11	178.06	164.17	177.65	
G 65.0	142.67	132.49	114.66	138.24	120.55	147.14	127.87	147.84	130.18	146.75	133.46	148.34	
G 70.0	107.99	104.34	87.63	108.53	87.37	111.16	97.79	115.89	94.42	112.63	96.34	111.35	
G 75.0	79.32	74.57	55.58	73.51	60.19	81.53	64.19	78.69	65.35	80.09	67.38	81.87	
G 80.0	46.06	44.30	31.14	45.86	30.09	46.59	37.20	51.14	32.92	51.64	34.58	48.67	
G 85.0	20.98	19.28	6.69	15.68	7.58	20.97	8.89	18.38	9.67	19.41	10.67	22.10	
G 90.0	1.25	1.09	1.04	1.00	0.96	1.11	0.97	0.99	1.03	0.98	0.98	1.05	

**Luminaria**

Código NENUFAR 3  
 Nombre NENUFAR 3 LED 27W 2700K 24V  
 Familia - MARSET

**Ensayo**

Código NENUFAR 3  
 Nombre NENUFAR 3 LED 27W 2700K 24V  
 Fecha 02-12-2013

**Lámpara**

Código NENUFAR 3  
 Número 1  
 Posición Universal

Rendimiento 100.00%

Sist. de Coord. CG

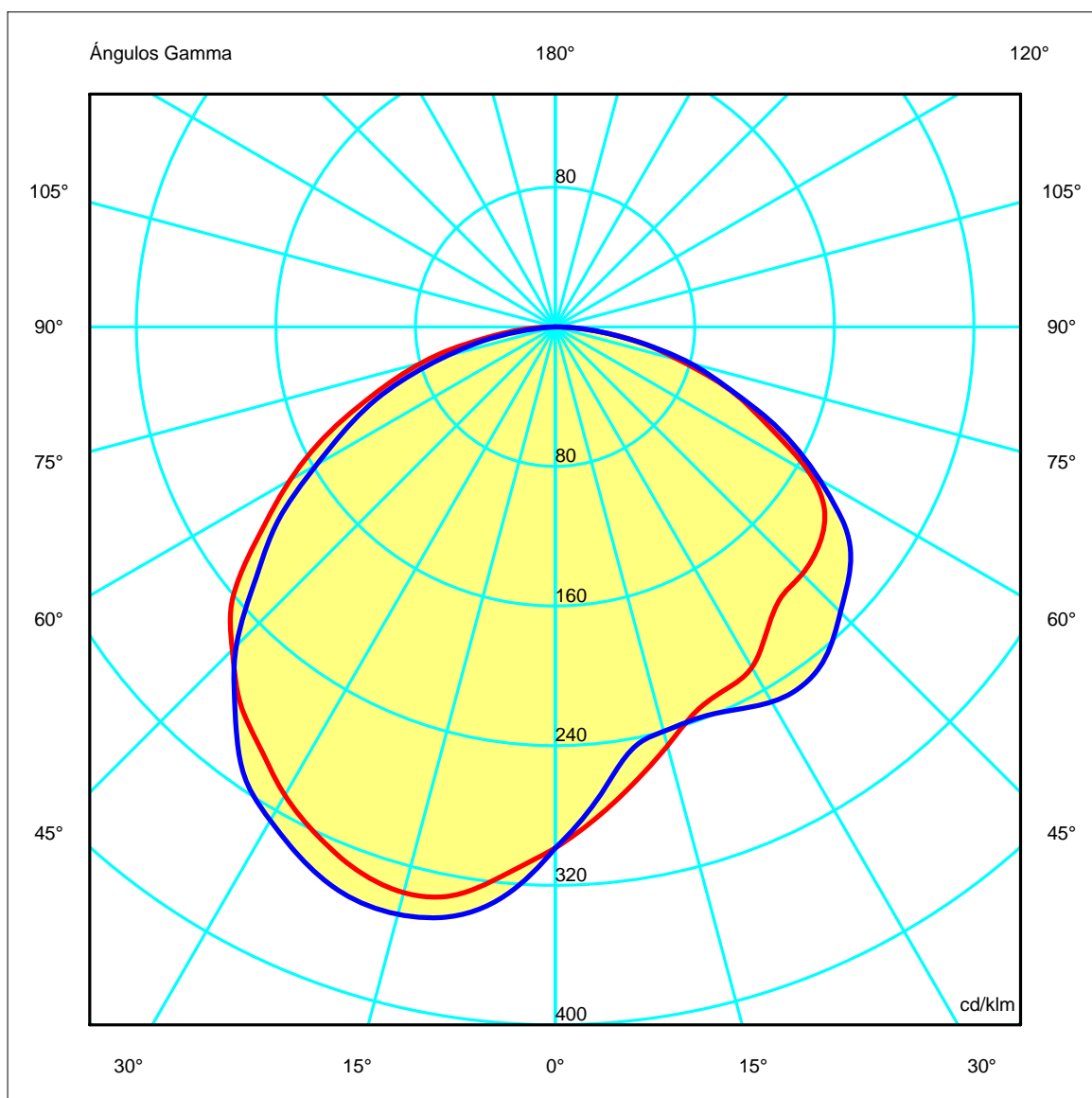
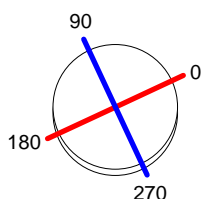
Flujo Total 611.63 lm

Diam=250mm

Semiplanos C

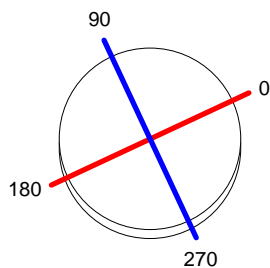
180.0 ————— 0.0

270.0 ————— 90.0



<b>Luminaria</b>		<b>Ensayo</b>		<b>Lámpara</b>	
Código	NENUFAR 3	Código	NENUFAR 3	Código	NENUFAR 3
Nombre	NENUFAR 3 LED 27W 2700K 24V	Nombre	NENUFAR 3 LED 27W 2700K 24V	Número	1
Familia	- MARSET	Fecha	02-12-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coord.	CG	Flujo Total	611.63 lm

Diam=250mm



Semiplanos C

180.0 ————— 0.0  
 270.0 ————— 90.0



<b>Luminaria</b>		<b>Ensayo</b>		<b>Lámpara</b>	
Código	NENUFAR 3	Código	NENUFAR 3	Código	NENUFAR 3
Nombre	NENUFAR 3 LED 27W 2700K 24V	Nombre	NENUFAR 3 LED 27W 2700K 24V	Número	1
Familia	- MARSET	Fecha	02-12-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coorden.	CG	Flujo Total	611.63 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	18.8	20.2	19.1	20.4	20.9	19.0	20.4	19.3	20.6	20.9
x=2H y=3H	20.4	21.7	20.8	22.0	22.5	20.7	21.9	21.0	22.2	22.5
x=2H y=4H	21.1	22.3	21.5	22.6	23.1	21.3	22.5	21.6	22.8	23.1
x=2H y=6H	21.7	22.7	22.0	23.1	23.4	21.7	22.8	22.1	23.1	23.4
x=2H y=8H	21.8	22.9	22.2	23.2	23.5	21.8	22.9	22.2	23.2	23.5
x=2H y=12H	21.9	23.0	22.3	23.3	23.5	21.8	22.9	22.2	23.2	23.5
x=4H y=2H	19.6	20.7	19.9	21.0	21.5	19.7	20.9	20.1	21.2	21.5
x=4H y=3H	21.4	22.4	21.7	22.7	23.2	21.5	22.5	21.9	22.8	23.2
x=4H y=4H	22.1	23.0	22.5	23.4	23.9	22.3	23.1	22.7	23.5	23.9
x=4H y=6H	22.7	23.5	23.2	23.9	24.4	22.9	23.6	23.3	24.0	24.4
x=4H y=8H	23.0	23.7	23.4	24.1	24.6	23.1	23.8	23.5	24.2	24.6
x=4H y=12H	23.1	23.8	23.6	24.2	24.6	23.1	23.8	23.6	24.2	24.6
x=8H y=4H	22.5	23.2	22.9	23.6	24.1	22.6	23.3	23.0	23.7	24.1
x=8H y=6H	23.2	23.8	23.7	24.2	24.7	23.3	23.8	23.7	24.3	24.7
x=8H y=8H	23.5	24.0	24.0	24.4	25.0	23.5	24.0	24.0	24.5	25.0
x=8H y=12H	23.7	24.1	24.2	24.6	25.1	23.7	24.1	24.2	24.6	25.1
x=12H y=4H	22.5	23.1	22.9	23.5	24.1	22.6	23.2	23.0	23.6	24.1
x=12H y=6H	23.3	23.8	23.7	24.2	24.8	23.3	23.8	23.8	24.3	24.8
x=12H y=8H	23.6	24.0	24.1	24.5	25.0	23.6	24.0	24.1	24.5	25.0

<b>Luminaria</b>				<b>Ensayo</b>				<b>Lámpara</b>			
Código	NENUFAR 3			Código	NENUFAR 3			Código	NENUFAR 3		
Nombre	NENUFAR 3 LED 27W 2700K 24V			Nombre	NENUFAR 3 LED 27W 2700K 24V			Número	1		
Familia	- MARSET			Fecha	02-12-2013			Posición	Universal		
Rendimiento	100.00%			Sist. de Coord.	CG			Flujo Total	611.63 lm		

Flujo Total=611.63 Flujo Luminaria=611.62

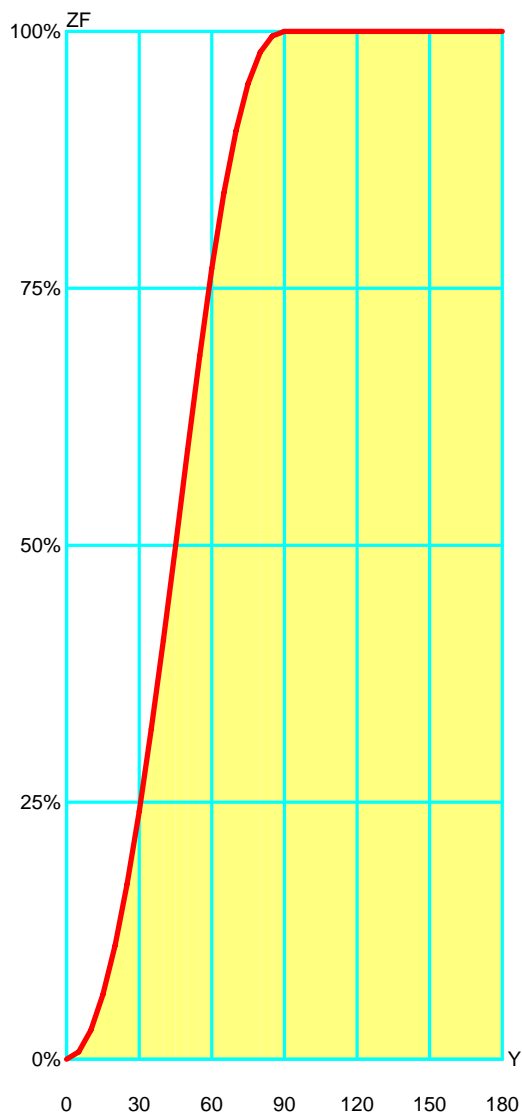
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.27	0.36	0.44	0.51	0.57	0.66	0.72	0.76	0.82	0.85	0.92	0.96
RC	6	6	5	5	5	5	5	5	5	5	5	5

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)	28	111	241	408	593	769	903	980	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.  
43 77 95 100 100

C.I.E.	6/6/5/5/5/5/5/5/5/5
D DIN 5040	A30
F UTE	1.00 E
B NBN	BZ 5
RN	0.00000 %
BLF	1.0

LOR	99.99885 %
ULOR	0.00000 %
DLOR	99.99885 %
UFF	0.00000 %
DFF	100.00000 %
FFR	0.00000 %



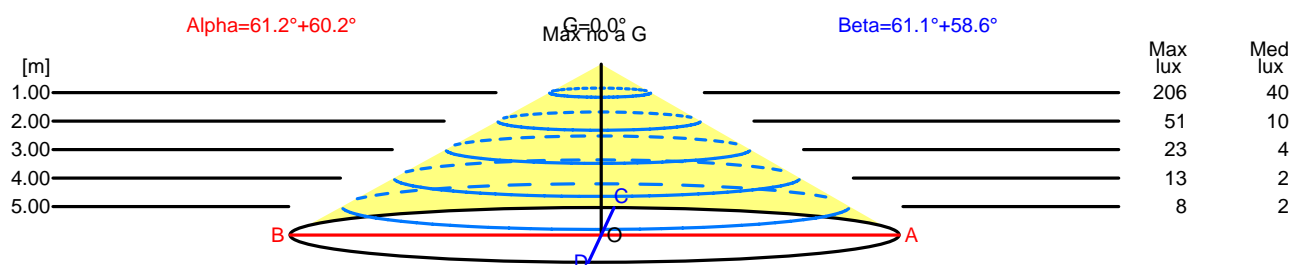
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	7.12	7.12	0.71 %	0.71 %
10°	21.16	28.29	2.12 %	2.83 %
15°	34.70	62.99	3.47 %	6.30 %
20°	47.60	110.58	4.76 %	11.06 %
25°	59.74	170.32	5.97 %	17.03 %
30°	70.79	241.11	7.08 %	24.11 %
35°	79.99	321.09	8.00 %	32.11 %
40°	86.85	407.95	8.69 %	40.80 %
45°	91.47	499.42	9.15 %	49.94 %
50°	93.38	592.80	9.34 %	59.28 %
55°	91.53	684.33	9.15 %	68.43 %
60°	84.84	769.17	8.48 %	76.92 %
65°	73.86	843.03	7.39 %	84.30 %
70°	60.45	903.47	6.04 %	90.35 %
75°	45.70	949.18	4.57 %	94.92 %
80°	30.56	979.74	3.06 %	97.97 %
85°	15.71	995.44	1.57 %	99.55 %
90°	4.55	999.99	0.45 %	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 %

<b>Luminaria</b>		<b>Ensayo</b>		<b>Lámpara</b>	
Código	NENUFAR 3	Código	NENUFAR 3	Código	NENUFAR 3
Nombre	NENUFAR 3 LED 27W 2700K 24V	Nombre	NENUFAR 3 LED 27W 2700K 24V	Número	1
Familia	- MARSET	Fecha	02-12-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coord.	CG	Flujo Total	611.63 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	1.74	3.49	5.23	6.97	8.72	OC	1.81	3.63	5.44	7.26	9.07
OB	1.82	3.64	5.46	7.28	9.10	OD	1.64	3.28	4.92	6.56	8.20

	Intensidades Luminosas [ cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	182.65	172.29	151.99	140.46	129.57	122.48	115.36	82.64	45.08	11.53
OB	182.65	192.23	205.23	196.86	180.21	160.05	126.35	87.26	48.52	12.83
OC	182.65	166.57	146.76	148.12	152.58	141.36	124.67	88.13	48.78	12.49
OD	182.65	200.00	213.10	207.22	190.66	158.08	118.70	78.21	39.26	5.44



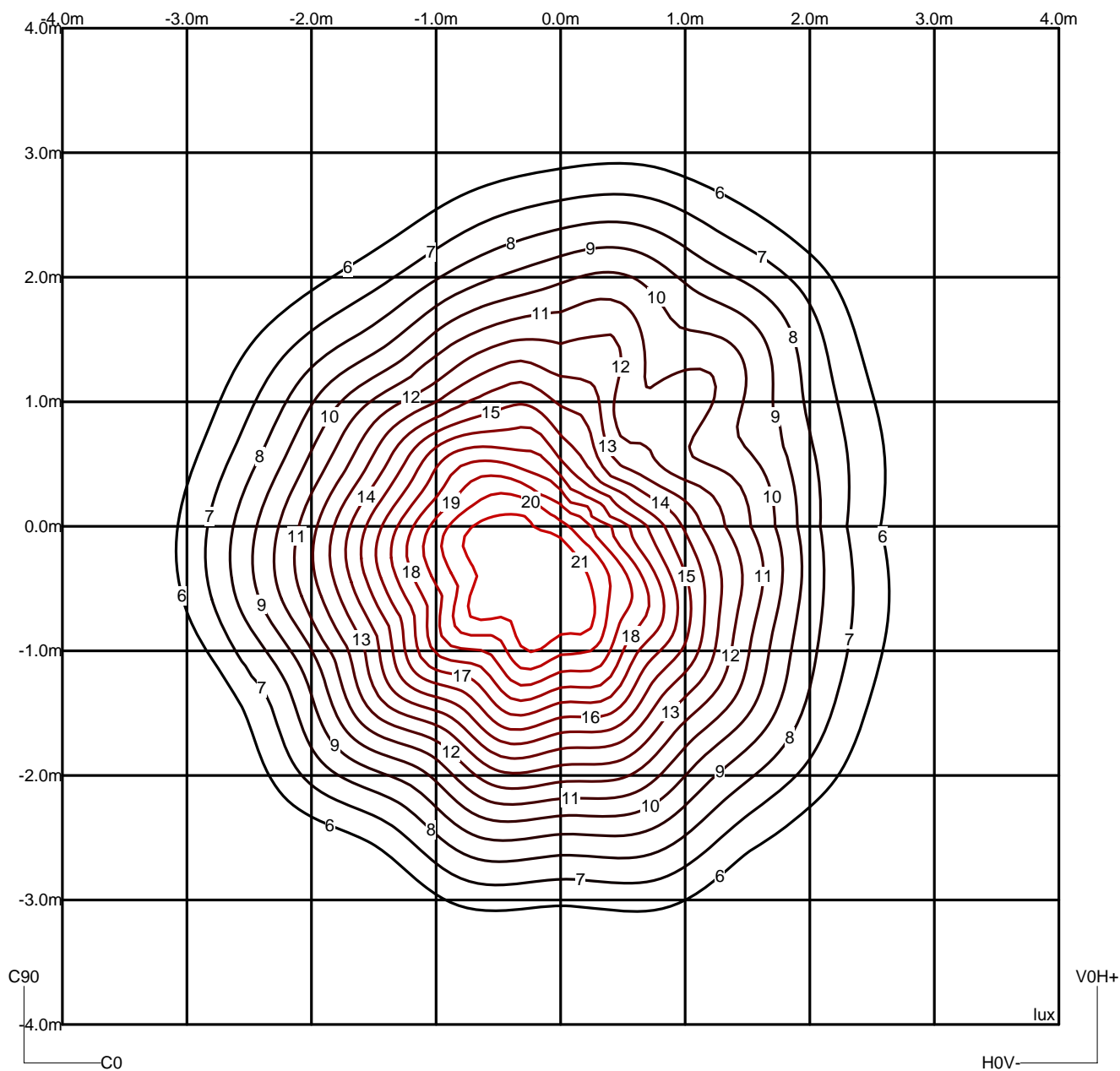
H[m]	D[m]	Max lux	Med lux	Alpha=61.2°+60.2°	G=0.0° Máx no a G
1.00	3.56	206	40		
2.00	7.13	51	10		
3.00	10.69	23	4		
4.00	14.25	13	2		
5.00	17.82	8	2		

H[m]	D[m]	Max lux	Med lux	Beta=58.6°+61.1°	G=0.0° Máx no a G
1.00	3.45	206	40		
2.00	6.91	51	10		
3.00	10.36	23	4		
4.00	13.82	13	2		
5.00	17.27	8	2		

<b>Luminaria</b>		<b>Ensayo</b>		<b>Lámpara</b>	
Código	NENUFAR 3	Código	NENUFAR 3	Código	NENUFAR 3
Nombre	NENUFAR 3 LED 27W 2700K 24V	Nombre	NENUFAR 3 LED 27W 2700K 24V	Número	1
Familia	- MARSET	Fecha	02-12-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coorden.	CG	Flujo Total	611.63 lm

Isolux (Suelo)

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



<b>Luminaria</b>					<b>Ensayo</b>					<b>Lámpara</b>				
Código	NENUFAR 3				Código	NENUFAR 3				Código	NENUFAR 3			
Nombre	NENUFAR 3 LED 27W 2700K 24V				Nombre	NENUFAR 3 LED 27W 2700K 24V				Número	1			
Familia	- MARSET				Fecha	02-12-2013				Posición	Universal			
Rendimiento	100.00%				Sist. de Coorden.	CG				Flujo Total	611.63 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	221	199	177	160	189	152	113	96	90	77	48	36	17	12	72	38	34	14	11	32	12	10	0	
0.80	256	235	189	174	223	166	141	124	103	90	57	46	23	17	85	48	43	19	16	41	17	15	0	
1.00	279	259	191	179	247	171	164	147	110	99	64	53	29	22	92	55	50	25	21	48	22	19	0	
1.25	298	281	188	178	267	171	188	170	114	105	71	60	35	28	98	61	57	31	27	54	28	25	0	
1.50	312	297	183	175	283	169	207	190	117	108	75	65	41	34	102	66	62	37	33	59	33	30	0	
2.00	329	316	172	166	302	161	235	220	117	111	81	73	51	44	105	73	70	46	42	67	42	39	0	
2.50	340	329	163	158	315	154	255	241	117	111	85	78	58	51	106	78	75	53	49	72	50	46	0	
3.00	348	339	155	152	324	148	271	258	116	111	88	82	64	57	106	82	79	59	55	76	55	52	0	
4.00	359	351	146	144	336	140	292	282	115	112	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	482	470	426	417	463	412	365	357	333	327	279	274	240	238	324	275	273	239	238	272	238	237	218	
0.80	543	530	466	458	521	451	424	414	377	370	323	318	283	280	366	318	316	281	280	314	280	279	255	
1.00	584	571	488	481	559	474	466	456	405	399	354	348	314	311	393	347	345	311	310	343	309	308	281	
1.25	619	607	505	498	592	491	505	495	429	423	381	375	342	338	416	374	371	339	337	368	336	334	305	
1.50	644	633	515	509	616	501	535	524	445	440	400	395	364	360	432	393	390	360	358	387	357	354	322	
2.00	670	660	517	513	640	505	570	560	459	454	420	415	388	383	445	411	409	383	380	404	378	375	339	
2.50	685	676	516	512	655	504	593	583	465	461	432	427	403	398	452	423	421	397	394	415	392	388	349	
3.00	693	685	512	509	663	502	608	599	468	464	438	434	412	408	454	429	427	406	403	420	400	395	354	
4.00	709	703	512	510	678	502	633	625	475	473	451	447	429	425	462	441	439	422	419	432	415	409	365	
5.00	721	715	513	512	689	504	651	643	482	479	461	458	442	438	468	450	449	434	431	441	426	419	373	
10.00	745	742	515	514	713	507	691	686	495	493	482	480	471	468	482	471	470	461	459	460	452	443	393	
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#### P.Trab.

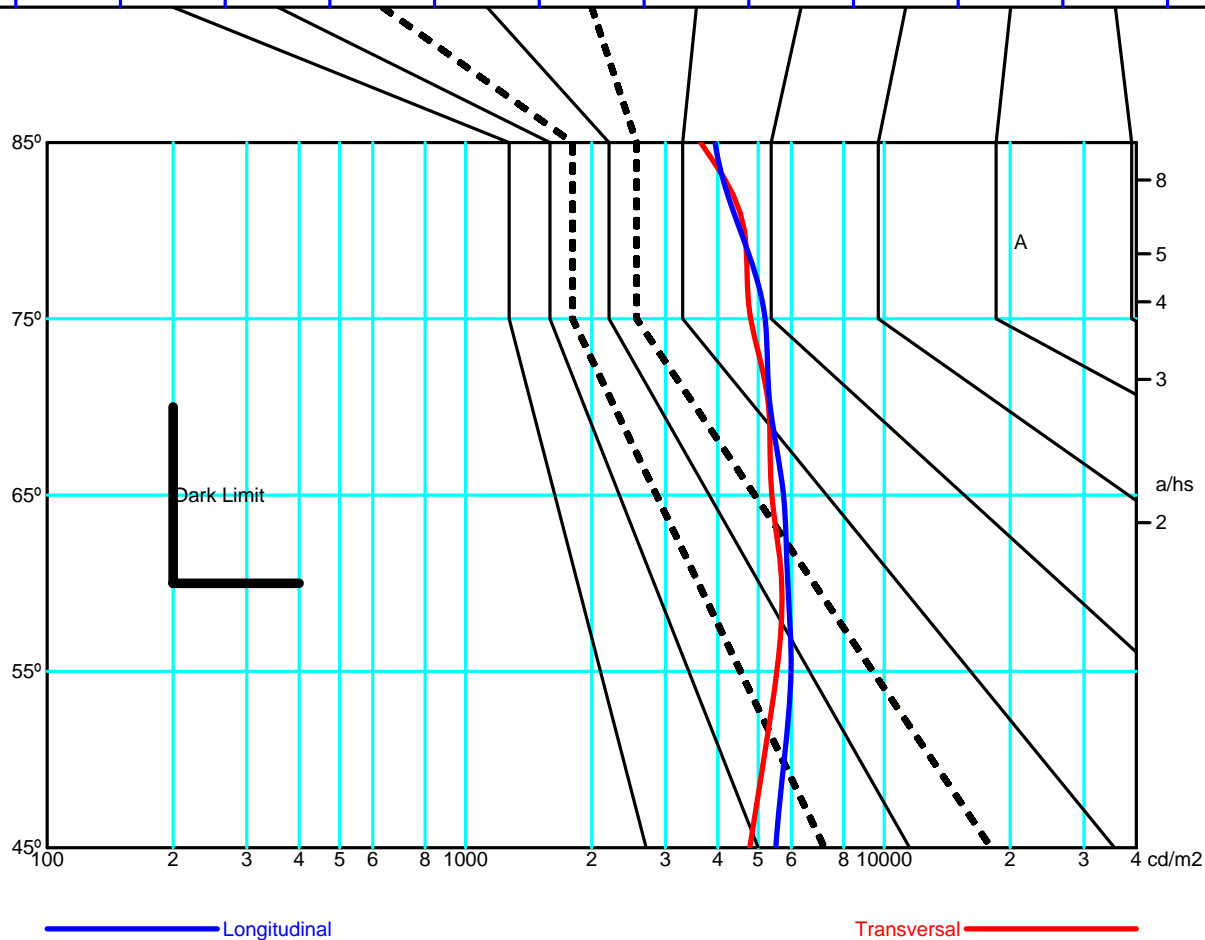
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000	
0.60	572	559	533	524	551	517	431	423	415	409	346	341	296	294	405	341	340	294	293	338	293	293	275	
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1.25	851	836	767	758	816	747	706	693	661	654	595	587	542	537	643	585	582	538	535	577	534	531	513	
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2.00	1000	988	882	876	960	863	870	856	798	791	744	736	698	692	776	730	727	690	687	719	683	678	661	
2.50	1000	1000	923	918	1000	905	936	923	850	844	803	795	762	755	828	787	785	752	748	775	744	736	721	
3.00	1000	1000	951	947	1000	934	984	971	886	881	845	838	808	801	864	828	826	797	793	815	787	779	764	
4.00	1000	1000	985	982	1000	969	1000	1000	931	927	897	891	866	860	908	880	877	853	850	864	841	831	818	
5.00	1000	1000	1000	1000	1000	990	1000	1000	958	955	930	924	903	897	936	911	909	889	885	895	875	863	851	
10.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	999	996	984	979	992	979	977	965	963	960	949	933	921	
20.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	995	989	971	960	

LM53 SHR C0-C180: 1.120 SHR C90-C270: 1.274 SHR Superficial: 1.532

<b>Luminaria</b>		<b>Ensayo</b>		<b>Lámpara</b>	
Código	NENUFAR 3	Código	NENUFAR 3	Código	NENUFAR 3
Nombre	NENUFAR 3 LED 27W 2700K 24V	Nombre	NENUFAR 3 LED 27W 2700K 24V	Número	1
Familia	- MARSET	Fecha	02-12-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coord.	CG	Flujo Total	611.63 lm

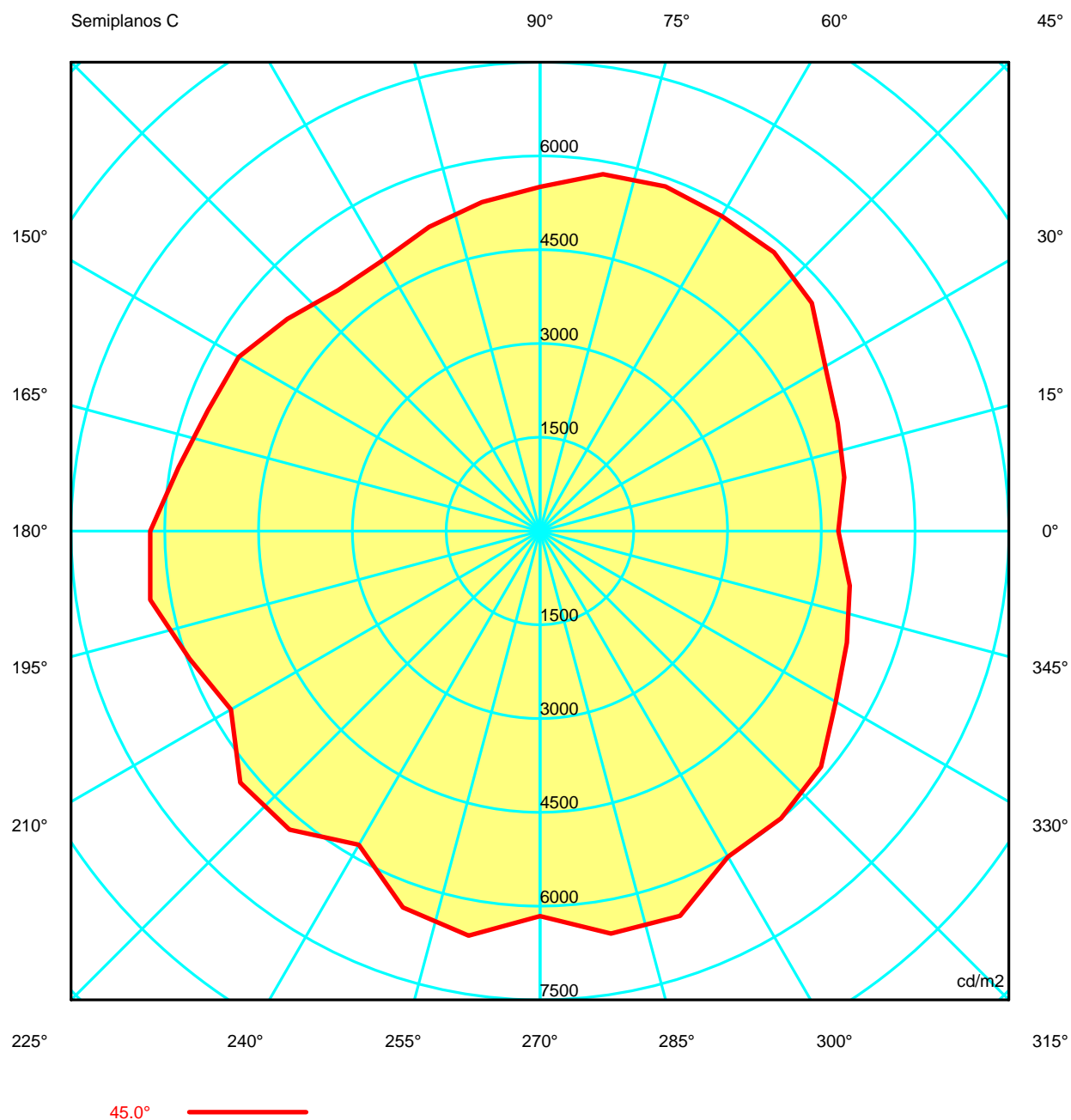
	45°	50°	55°	60°	Luminancia Media [cd/m²]					80°	85°	
0.0°	4771	5152	5540	5688	65°	70°	75°	80°	85°	4636	3645	---
90.0°	5507	5767	5987	5882	5386	5293	4798	4636	3946	4526	3946	---
					5744	5340	5191					---

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



<b>Luminaria</b>		<b>Ensayo</b>		<b>Lámpara</b>	
Código	NENUFAR 3	Código	NENUFAR 3	Código	NENUFAR 3
Nombre	NENUFAR 3 LED 27W 2700K 24V	Nombre	NENUFAR 3 LED 27W 2700K 24V	Número	1
Familia	- MARSET	Fecha	02-12-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coord.	CG	Flujo Total	611.63 lm

Luminancia



Luminaria				Ensayo							Lámpara				
Código	NENUFAR 3			Código NENUFAR 3							Código	NENUFAR 3			
Nombre	NENUFAR 3 LED 27W 2700K 24V			NombreNENUFAR 3 LED 27W 2700K 24V							Número	1			
Familia	- MARSET			Fecha 02-12-2013							Posición	Universal			
Rendimiento				100.00%				Sist. de Coordin.		CG		Flujo Total		611.63 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	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96
G 5.0	4763.66	4566.71	4535.93	4595.74	4520.58	4434.83	4402.23	4374.16	4448.67	4605.74	4703.82	4742.75	4795.88	4763.66	4795.88
G 10.0	4526.28	4275.96	4127.33	4029.75	3860.17	3799.27	3891.42	3995.86	4088.99	4224.31	4449.02	4612.11	4713.86	4526.28	4713.86
G 15.0	4334.22	4093.60	3856.75	3659.64	3549.64	3497.61	3582.24	3896.61	4101.26	4185.01	4438.04	4619.72	4691.58	4334.22	4691.58
G 20.0	4211.01	4052.59	3790.29	3598.98	3732.02	3688.87	3572.30	3968.40	4252.32	4278.94	4509.39	4681.60	4715.96	4211.01	4715.96
G 25.0	4268.94	4197.69	3985.19	3867.49	4177.91	4194.01	4014.40	4423.78	4640.05	4501.80	4654.62	4729.96	4727.80	4268.94	4727.80
G 30.0	4383.59	4358.51	4258.51	4297.77	4716.05	4760.64	4547.17	4903.39	5069.02	4826.96	4787.48	4767.51	4767.05	4383.59	4767.05
G 35.0	4356.95	4419.05	4478.84	4685.94	5150.30	5261.01	5111.79	5363.10	5428.58	5130.71	4916.54	4810.43	4729.53	4356.95	4729.53
G 40.0	4438.34	4617.51	4760.45	5000.27	5463.41	5612.61	5493.51	5649.89	5641.05	5349.68	5128.60	4909.23	4725.48	4438.34	4725.48
G 45.0	4771.22	4940.84	5067.10	5267.43	5673.74	5821.73	5817.75	5866.28	5796.46	5506.59	5342.86	5179.29	5009.34	4771.22	5009.34
G 50.0	5151.96	5274.59	5392.66	5565.98	5845.45	6002.38	5984.30	5944.35	5873.31	5767.26	5654.39	5501.07	5361.12	5151.96	5361.12
G 55.0	5539.69	5503.26	5597.26	5740.77	5746.53	5823.47	5941.56	5867.06	5892.46	5986.70	5826.42	5757.25	5777.34	5539.69	5777.34
G 60.0	5687.91	5415.74	5513.76	5773.75	5663.93	5618.94	5684.11	5499.58	5596.01	5881.90	5731.12	5744.93	5905.87	5687.91	5905.87
G 65.0	5386.38	5026.18	5142.28	5441.34	5238.26	5276.55	5543.66	5312.30	5422.02	5744.19	5328.49	5349.72	5778.79	5386.38	5778.79
G 70.0	5293.21	4784.61	4940.22	5358.16	5068.58	4988.49	5163.43	4771.54	4867.86	5340.33	5016.59	5012.31	5316.75	5293.21	5316.75
G 75.0	4797.78	4123.40	4498.45	5174.19	4531.54	4464.58	5039.84	4501.41	4584.59	5191.26	4480.51	4454.94	5141.11	4797.78	5141.11
G 80.0	4636.38	3677.65	4007.61	4743.92	3973.38	4088.03	4909.92	3922.92	3766.81	4525.94	3727.68	4020.00	5038.43	4636.38	5038.43
G 85.0	3644.94	1792.97	2680.61	4569.23	3379.57	3129.29	4025.17	2404.71	2391.87	3946.23	2869.34	2791.20	3860.47	3644.94	3860.47
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	0.00	0.00

Luminaria					Ensayo					Lámpara				
Código	NENUFAR 3				Código	NENUFAR 3				Código	NENUFAR 3			
Nombre	NENUFAR 3 LED 27W 2700K 24V				Nombre	NENUFAR 3 LED 27W 2700K 24V				Número	1			
Familia	- MARSET				Fecha	02-12-2013				Posición	Universal			
Rendimiento		100.00%			Sist. de Coordin.		CG				Flujo Total		611.63 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	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	
G 5.0	4931.90	5059.56	5151.05	5253.08	5300.55	5315.18	5386.85	5421.97	5444.73	5561.92	5564.46	5469.17	5517.77	
G 10.0	4901.85	5109.66	5274.70	5401.40	5523.11	5655.62	5768.57	5772.34	5752.88	5984.23	5987.78	5801.82	5919.11	
G 15.0	4884.88	5151.08	5370.50	5481.58	5636.96	5852.45	5971.81	5953.06	5922.86	6226.89	6240.46	6034.79	6247.82	
G 20.0	4853.74	5126.38	5384.16	5464.90	5639.58	5942.45	6105.41	6087.01	6055.70	6437.00	6463.66	6216.05	6466.80	
G 25.0	4741.54	4960.81	5262.60	5396.10	5622.54	5983.05	6199.07	6177.39	6126.88	6589.90	6616.76	6306.50	6620.07	
G 30.0	4709.91	4887.00	5214.97	5353.20	5616.90	6028.50	6217.04	6157.14	6087.01	6606.44	6641.11	6311.88	6699.10	
G 35.0	4668.12	4883.85	5261.15	5420.79	5666.55	6059.75	6274.75	6187.57	6062.22	6591.62	6548.29	6110.66	6591.23	
G 40.0	4775.25	5049.68	5349.02	5472.26	5741.42	6178.93	6394.20	6106.23	5842.20	6367.45	6380.51	5985.64	6528.36	
G 45.0	5026.87	5276.91	5565.97	5651.75	5870.88	6234.56	6329.92	5967.55	5708.56	6258.48	6233.72	5794.39	6407.88	
G 50.0	5373.30	5591.80	5803.32	5748.13	5929.99	6319.19	6295.07	5805.90	5511.42	6076.30	6035.70	5556.45	6170.18	
G 55.0	5774.04	5888.92	6121.98	5824.71	5770.31	6067.82	6006.65	5498.20	5209.65	5823.73	5825.51	5385.03	6072.52	
G 60.0	5620.98	5679.72	5963.94	5576.32	5499.71	5906.72	5877.48	5326.63	5017.92	5694.39	5624.17	5025.59	5730.22	
G 65.0	5438.44	5480.35	5843.19	5305.36	5184.07	5687.48	5577.62	4908.31	4570.90	5297.14	5313.54	4805.67	5580.89	
G 70.0	4852.21	5039.77	5678.50	5111.35	4837.47	5319.05	5380.88	4743.31	4316.59	5131.02	5053.04	4303.75	5123.94	
G 75.0	4581.49	4622.79	5203.78	4396.70	4255.36	5163.40	5229.03	4290.83	3618.11	4495.26	4545.05	3917.74	4947.12	
G 80.0	3775.41	3764.34	5035.31	4045.45	3828.09	4468.82	4653.42	3702.39	3021.54	4151.08	4021.76	2919.73	4040.33	
G 85.0	2577.02	2618.59	3781.22	2195.40	2034.90	4055.12	4383.82	2682.97	1294.02	2609.75	2552.29	1465.47	3422.30	
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 3				Código	NENUFAR 3				Código	NENUFAR 3		
Nombre	NENUFAR 3 LED 27W 2700K 24V				Nombre	NENUFAR 3 LED 27W 2700K 24V				Número	1		
Familia	- MARSET				Fecha	02-12-2013				Posición	Universal		
Rendimiento	100.00%				Sist. de Coordin.	CG				Flujo Total	611.63 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	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96	5030.96
G 5.0	5315.18	5386.85	5421.97	5444.73	5561.92	5564.46	5469.17	5517.77	5553.89	5529.92	5483.56	5384.48	5258.89
G 10.0	5655.62	5768.57	5772.34	5752.88	5984.23	5987.78	5801.82	5919.11	5977.20	5868.10	5845.05	5716.82	5476.91
G 15.0	5852.45	5971.81	5953.06	5922.86	6226.89	6240.46	6034.79	6247.82	6250.14	6076.79	6097.84	5959.41	5622.37
G 20.0	5942.45	6105.41	6087.01	6055.70	6437.00	6463.66	6216.05	6466.80	6502.19	6223.75	6222.91	6071.67	5667.13
G 25.0	5983.05	6199.07	6177.39	6126.88	6589.90	6616.76	6306.50	6620.07	6650.66	6297.71	6366.85	6180.58	5678.83
G 30.0	6028.50	6217.04	6157.14	6087.01	6606.44	6641.11	6311.88	6699.10	6756.56	6353.50	6409.86	6238.36	5745.73
G 35.0	6059.75	6274.75	6187.57	6062.22	6591.62	6548.29	6110.66	6591.23	6766.25	6411.18	6511.80	6332.72	5805.22
G 40.0	6178.93	6394.20	6106.23	5842.20	6367.45	6380.51	5985.64	6528.36	6677.46	6278.40	6507.04	6449.73	5943.47
G 45.0	6234.56	6329.92	5967.55	5708.56	6258.48	6233.72	5794.39	6407.88	6570.65	6157.89	6538.33	6549.77	6015.81
G 50.0	6319.19	6295.07	5805.90	5511.42	6076.30	6035.70	5556.45	6170.18	6290.04	5866.89	6425.92	6514.82	5960.09
G 55.0	6067.82	6006.65	5498.20	5209.65	5823.73	5825.51	5385.03	6072.52	6203.03	5700.36	6169.81	6242.95	5808.99
G 60.0	5906.72	5877.48	5326.63	5017.92	5694.39	5624.17	5025.59	5730.22	5842.67	5319.26	5992.35	6066.83	5428.55
G 65.0	5687.48	5577.62	4908.31	4570.90	5297.14	5313.54	4805.67	5580.89	5696.24	5097.40	5667.87	5733.29	5189.45
G 70.0	5319.05	5380.88	4743.31	4316.59	5131.02	5053.04	4303.75	5123.94	5346.99	4817.10	5504.04	5425.89	4651.04
G 75.0	5163.40	5229.03	4290.83	3618.11	4495.26	4545.05	3917.74	4947.12	5053.58	4178.52	4846.95	4911.82	4253.83
G 80.0	4468.82	4653.42	3702.39	3021.54	4151.08	4021.76	2919.73	4040.33	4324.38	3608.64	4695.76	4436.73	3193.84
G 85.0	4055.12	4383.82	2682.97	1294.02	2609.75	2552.29	1465.47	3422.30	3498.14	1718.21	3012.14	3143.52	1869.20
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