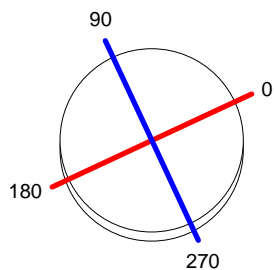


Luminaria		Ensayo		Lámpara	
Código	NENUFAR 1	Código	NENUFAR 1	Código	NENUFAR 1
Nombre	NENUFAR 1 LED 9W 2700K 24V	Nombre	NENUFAR 1 LED 9W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coorden.	CG	Flujo Total	298.94 lm
Valor Máximo	361.33 cd/klm	Posición	C=0.00 G=0.00	Bisimétrico	
Luminaria Redonda	Diam.	170 mm	Altura	20 mm	
Área Luminosa Redonda	Diam.	135 mm	Altura	0 mm	
Área Luminosa Horizontal	0.014314 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°	0.003463 m2	
Tipo de Simetría	Bisimétrico	Máximo Ángulo Gamma	90		
Distancia de Ensayo	6.44	Flujo de Ensayo	298.94 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 1	Lámpara led blanco 9W	298.94	9.00	1
C.I.E.	47 79 95 100 100	D DIN 5040			
F UTE	1.00 E	B NBN			
		A30			
		BZ 4 / 3 / BZ 5			

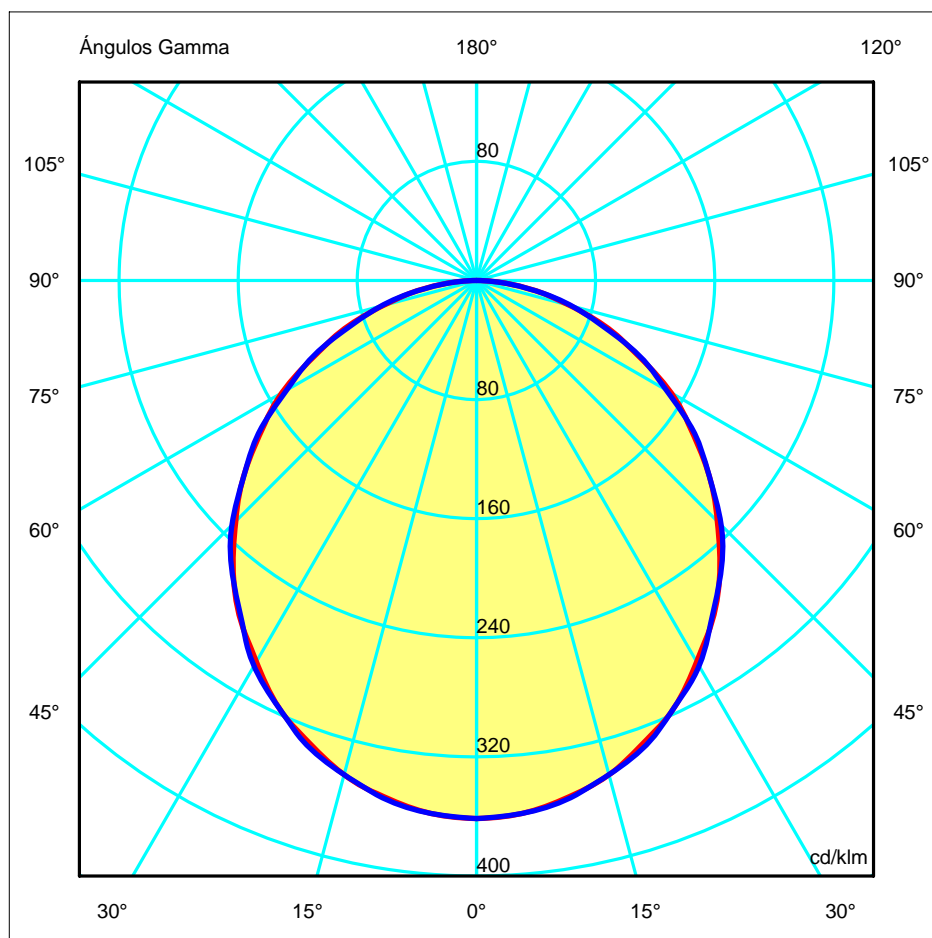
Diam=170mm



Semiplanos C

180.0 — 0.0
 270.0 — 90.0

ULOR 0.00 %
 DLOR 100.00 %
 RN 0.00 %



Luminaria			Ensayo				Lámpara							
Código	NENUFAR 1		Código				NENUFAR 1							
Nombre	NENUFAR 1 LED 9W 2700K 24V		Nombre				NENUFAR 1							
Familia	- MARSET		Fecha				29-11-2013							
Rendimiento		100.00%	Sist. de Coordin.		CG	Flujo Total		298.94 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
	G 0.0	361.33		361.33		361.33		361.33		361.33		361.33		361.33
	G 5.0	359.18		359.40		359.41		359.20		359.17		359.14		359.16
	G 10.0	352.46		352.45		353.71		353.09		352.71		353.10		353.60
	G 15.0	343.74		343.39		345.00		343.51		344.07		343.21		343.48
	G 20.0	329.80		329.32		331.62		330.45		330.67		331.00		332.41
	G 25.0	315.62		314.86		316.61		314.81		316.71		315.47		315.52
	G 30.0	295.58		294.55		298.81		296.36		297.11		297.93		298.99
	G 35.0	276.93		275.85		278.65		275.74		277.88		277.17		275.88
	G 40.0	254.22		254.22		256.84		253.59		254.34		254.66		255.46
	G 45.0	228.68		228.87		232.91		230.33		229.93		229.74		232.31
	G 50.0	204.12		205.35		208.09		205.02		204.82		203.01		203.87
	G 55.0	176.28		176.32		179.99		177.69		176.20		177.35		178.58
	G 60.0	151.29		151.11		152.91		149.69		150.62		149.26		147.21
	G 65.0	119.97		120.03		123.63		121.37		119.72		121.32		121.69
	G 70.0	94.49		94.70		96.71		93.27		93.98		93.26		91.03
	G 75.0	64.89		65.67		70.02		66.19		65.88		67.06		66.63
	G 80.0	41.69		41.22		44.27		41.71		41.07		41.30		40.85
	G 85.0	18.80		18.36		21.08		18.46		18.19		17.58		17.50
	G 90.0	2.07		1.87		1.79		1.73		1.55		1.35		1.41

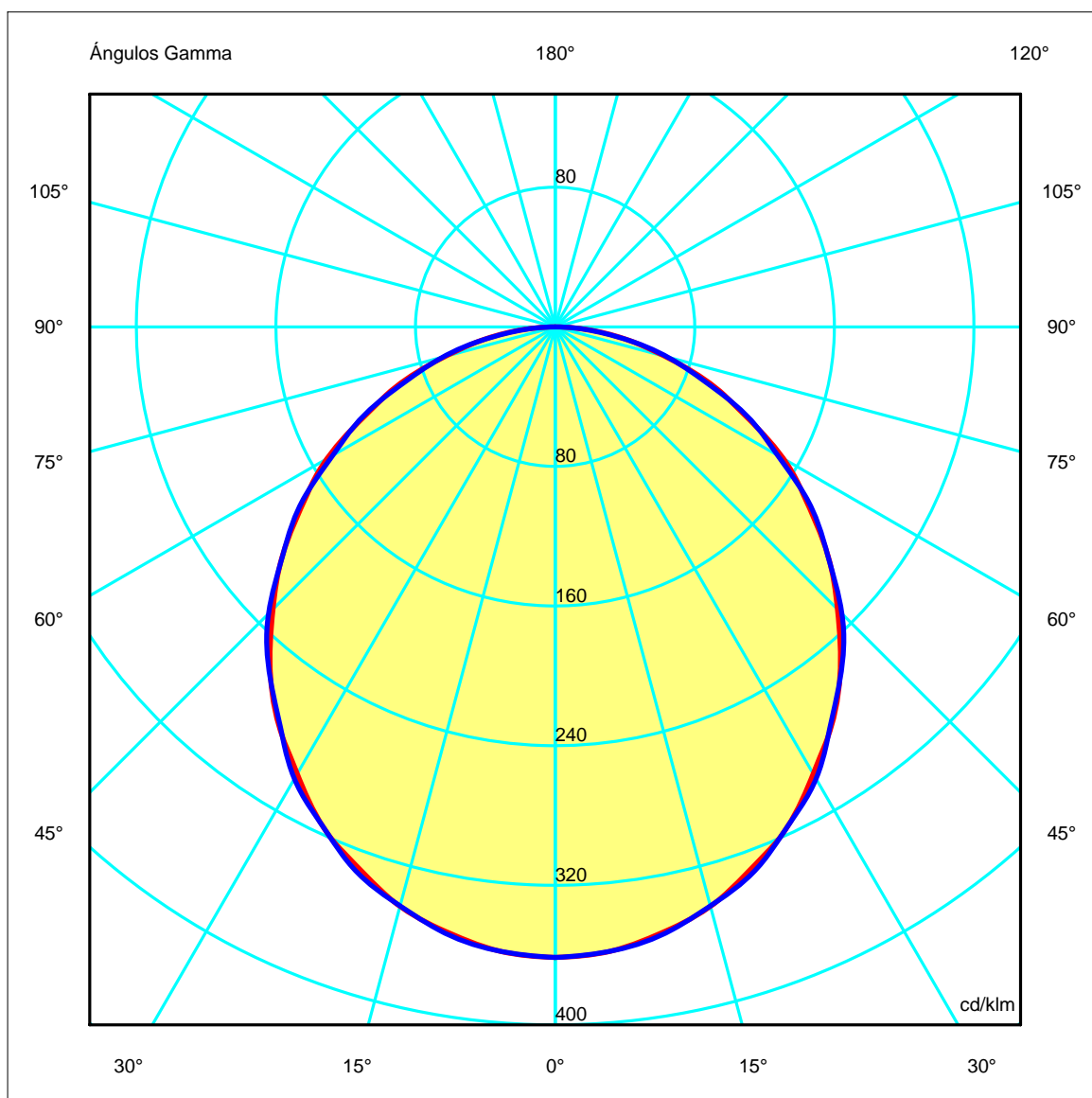
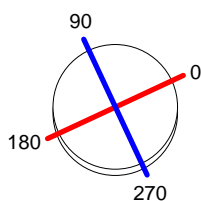
Luminaria		Ensayo		Lámpara	
Código	NENUFAR 1	Código	NENUFAR 1	Código	NENUFAR 1
Nombre	NENUFAR 1 LED 9W 2700K 24V	Nombre	NENUFAR 1 LED 9W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coorden.	CG	Flujo Total	298.94 lm

Diam=170mm

Semiplanos C

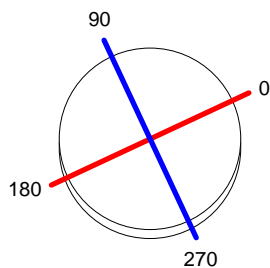
180.0 ————— 0.0

270.0 ————— 90.0



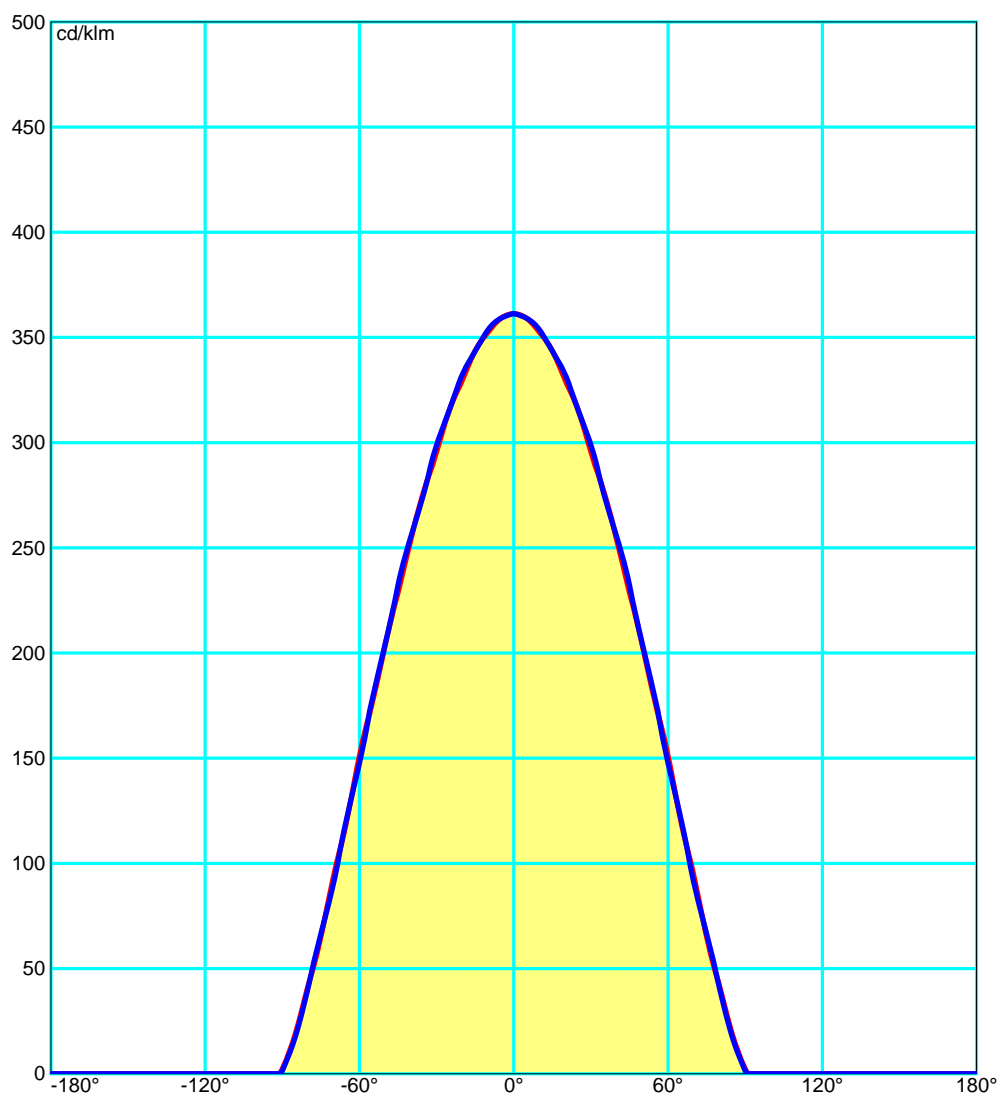
Luminaria		Ensayo		Lámpara	
Código	NENUFAR 1	Código	NENUFAR 1	Código	NENUFAR 1
Nombre	NENUFAR 1 LED 9W 2700K 24V	Nombre	NENUFAR 1 LED 9W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coord.	CG	Flujo Total	298.94 lm

Diam=170mm



Semiplanos C

180.0 — 0.0
 270.0 — 90.0



Luminaria		Ensayo		Lámpara	
Código	NENUFAR 1	Código	NENUFAR 1	Código	NENUFAR 1
Nombre	NENUFAR 1 LED 9W 2700K 24V	Nombre	NENUFAR 1 LED 9W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coorden.	CG	Flujo Total	298.94 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	18.9	20.2	19.2	20.5	20.7	18.9	20.2	19.2	20.4	20.7
x=2H y=3H	20.5	21.7	20.9	22.0	22.2	20.5	21.7	20.8	22.0	22.2
x=2H y=4H	21.2	22.3	21.5	22.6	22.9	21.2	22.3	21.5	22.6	22.9
x=2H y=6H	21.7	22.7	22.1	23.1	23.4	21.7	22.7	22.0	23.0	23.4
x=2H y=8H	21.9	22.9	22.2	23.2	23.5	21.9	22.9	22.2	23.2	23.5
x=2H y=12H	22.0	23.0	22.4	23.3	23.6	22.0	22.9	22.4	23.3	23.6
x=4H y=2H	19.7	20.8	20.0	21.1	21.4	19.6	20.8	20.0	21.1	21.4
x=4H y=3H	21.5	22.5	21.9	22.8	23.1	21.4	22.4	21.8	22.7	23.1
x=4H y=4H	22.3	23.2	22.7	23.5	23.8	22.3	23.1	22.7	23.5	23.8
x=4H y=6H	22.9	23.7	23.4	24.1	24.4	22.9	23.6	23.3	24.0	24.4
x=4H y=8H	23.2	23.9	23.6	24.3	24.6	23.1	23.8	23.6	24.2	24.6
x=4H y=12H	23.3	24.0	23.8	24.4	24.8	23.3	23.9	23.7	24.3	24.8
x=8H y=4H	22.7	23.4	23.1	23.8	24.1	22.6	23.3	23.0	23.7	24.1
x=8H y=6H	23.5	24.1	23.9	24.5	24.9	23.4	24.0	23.9	24.4	24.9
x=8H y=8H	23.8	24.3	24.3	24.8	25.1	23.7	24.2	24.2	24.7	25.1
x=8H y=12H	24.1	24.5	24.5	24.9	25.4	24.0	24.4	24.4	24.8	25.4
x=12H y=4H	22.7	23.3	23.2	23.8	24.1	22.7	23.3	23.1	23.7	24.1
x=12H y=6H	23.6	24.1	24.0	24.5	24.9	23.5	24.0	24.0	24.5	24.9
x=12H y=8H	23.9	24.4	24.4	24.8	25.3	23.9	24.3	24.3	24.8	25.3

Luminaria				Ensayo				Lámpara			
Código	NENUFAR 1			Código	NENUFAR 1			Código	NENUFAR 1		
Nombre	NENUFAR 1 LED 9W 2700K 24V			Nombre	NENUFAR 1 LED 9W 2700K 24V			Número	1		
Familia	- MARSET			Fecha	29-11-2013			Posición	Universal		
Rendimiento	100.00%			Sist. de Coord.	CG			Flujo Total	298.94 lm		

Flujo Total=298.94 Flujo Luminaria=298.94

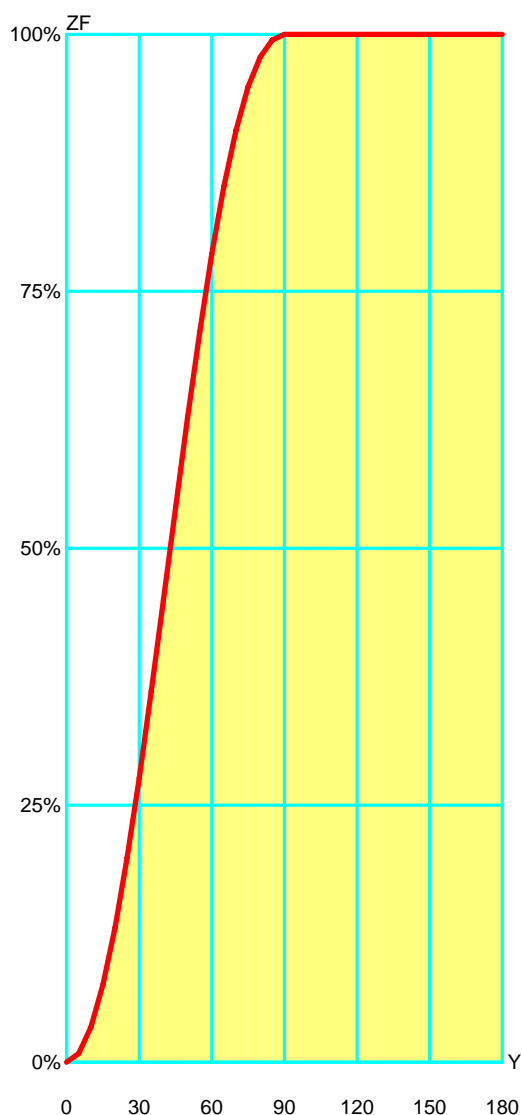
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.31	0.39	0.47	0.54	0.59	0.68	0.74	0.78	0.83	0.86	0.93	0.96
RC	5	5	5	5	5	5	5	5	5	5	5	4

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)	34	131	276	450	627	786	907	978	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.
47 79 95 100 100

C.I.E. 5/5/5/5/5/5/5/5/5/4
D DIN 5040 A30
F UTE 1.00 E
B NBN BZ 4 / 3 / BZ 5
RN 0.00000 %
BLF 1.0

LOR 99.99933 %
ULOR 0.00000 %
DLOR 99.99933 %
UFF 0.00000 %
DFF 100.00000 %
FFR 0.00000 %



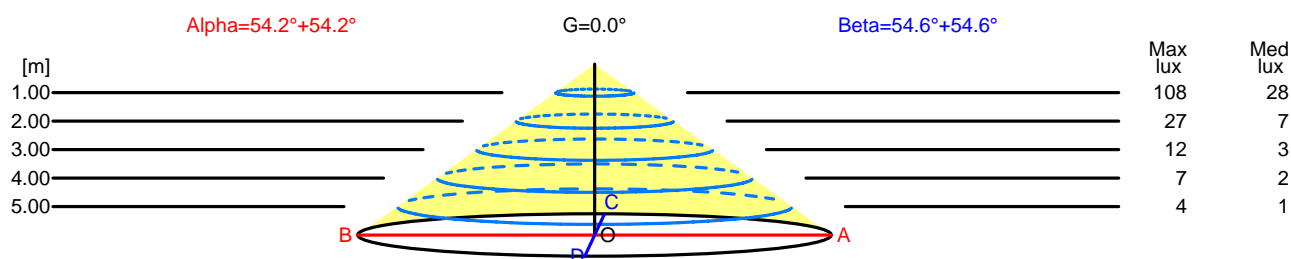
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	8.61	8.61	0.86 %	0.86 %
10°	25.48	34.09	2.55 %	3.41 %
15°	41.33	75.43	4.13 %	7.54 %
20°	55.59	131.02	5.56 %	13.10 %
25°	67.79	198.81	6.78 %	19.88 %
30°	77.54	276.34	7.75 %	27.63 %
35°	84.52	360.86	8.45 %	36.09 %
40°	88.71	449.57	8.87 %	44.96 %
45°	89.83	539.40	8.98 %	53.94 %
50°	87.98	627.38	8.80 %	62.74 %
55°	83.18	710.56	8.32 %	71.06 %
60°	75.81	786.37	7.58 %	78.64 %
65°	66.03	852.40	6.60 %	85.24 %
70°	54.51	906.91	5.45 %	90.69 %
75°	42.05	948.96	4.21 %	94.90 %
80°	29.05	978.01	2.91 %	97.80 %
85°	16.42	994.43	1.64 %	99.44 %
90°	5.56	999.99	0.56 %	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 1	Código	NENUFAR 1	Código	NENUFAR 1
Nombre	NENUFAR 1 LED 9W 2700K 24V	Nombre	NENUFAR 1 LED 9W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coord.	CG	Flujo Total	298.94 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	1.39	2.77	4.16	5.54	6.93	OC	1.41	2.82	4.22	5.63	7.04
OB	1.39	2.77	4.16	5.54	6.93	OD	1.41	2.82	4.22	5.63	7.04

	Intensidades Luminosas [cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	108.02	107.37	102.76	94.35	82.79	68.36	52.70	35.86	19.40	5.62
OB	108.02	107.37	102.76	94.35	82.79	68.36	52.70	35.86	19.40	5.62
OC	108.02	107.37	102.68	94.32	82.47	69.45	53.38	36.38	19.92	5.23
OD	108.02	107.37	102.68	94.32	82.47	69.45	53.38	36.38	19.92	5.23



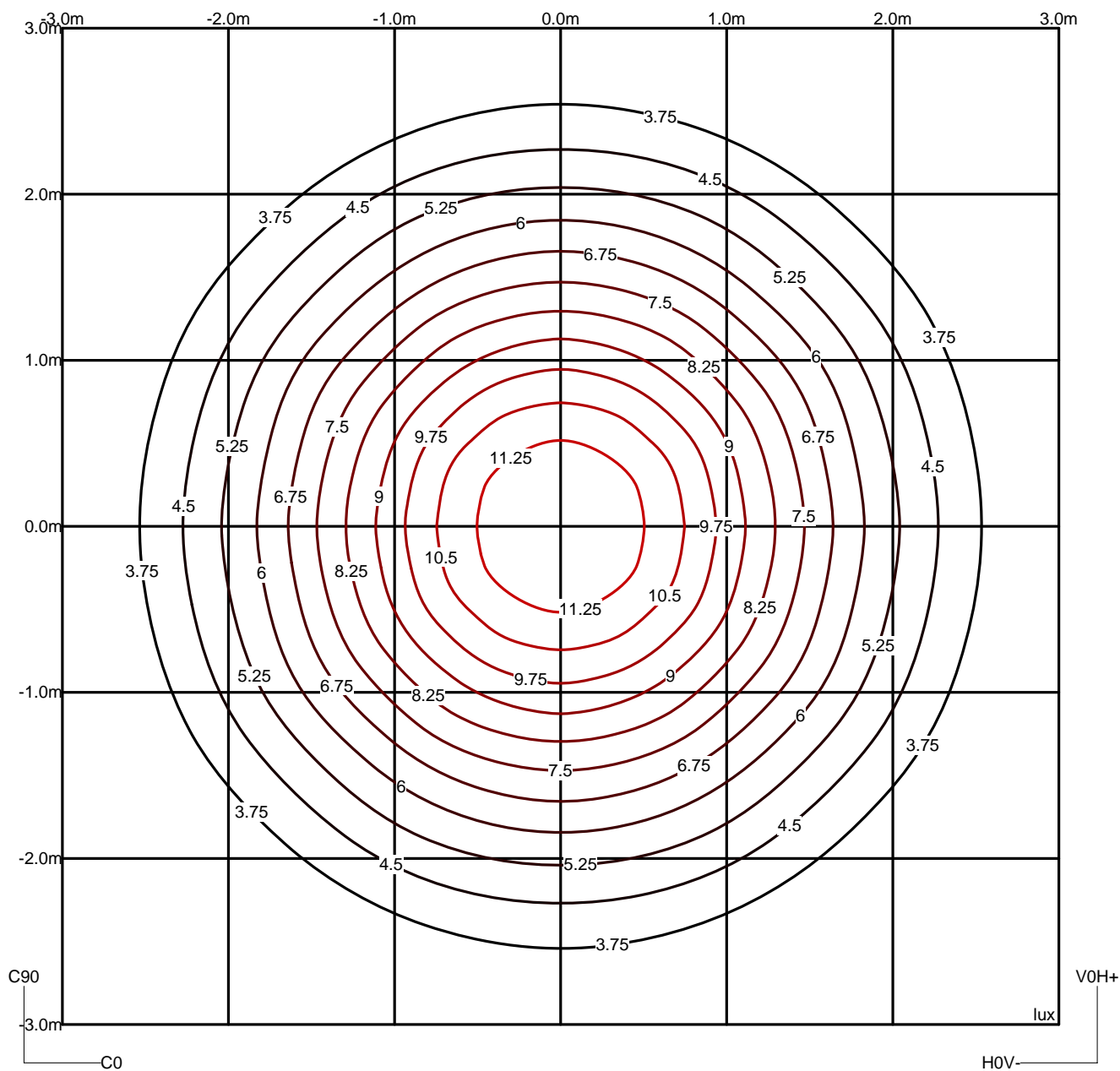
H[m]	D[m]	Max lux	Med lux	Alpha=54.2°+54.2°	G=0.0	
1.00	2.77	108	28			
2.00	5.54	27	7			
3.00	8.31	12	3			
4.00	11.08	7	2			
5.00	13.85	4	1			

H[m]	D[m]	Max lux	Med lux	Beta=54.6°+54.6°	G=0.0	
1.00	2.82	108	28			
2.00	5.63	27	7			
3.00	8.45	12	3			
4.00	11.26	7	2			
5.00	14.08	4	1			

Luminaria		Ensayo		Lámpara	
Código	NENUFAR 1	Código	NENUFAR 1	Código	NENUFAR 1
Nombre	NENUFAR 1 LED 9W 2700K 24V	Nombre	NENUFAR 1 LED 9W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coorden.	CG	Flujo Total	298.94 lm

Isolux (Suelo)

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



Luminaria										Ensayo										Lámpara									
Código	NENUFAR 1									Código	NENUFAR 1									Código	NENUFAR 1								
Nombre	NENUFAR 1 LED 9W 2700K 24V									Nombre	NENUFAR 1 LED 9W 2700K 24V									Número	1								
Familia	- MARSET									Fecha	29-11-2013									Posición	Universal								
Rendimiento	100.00%									Sist. de Coorden.	CG									Flujo Total	298.94 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	217	195	171	154	186	147	111	95	87	74	46	35	17	12	69	37	33	14	11	31	12	10	0					
0.80	251	231	182	168	219	161	140	122	100	88	56	45	23	17	82	47	42	20	16	40	17	15	0					
1.00	274	255	184	172	243	165	163	146	107	96	63	52	29	22	90	54	49	25	21	47	22	20	0					
1.25	294	277	182	172	264	165	187	169	111	102	69	59	36	29	96	60	56	31	27	53	28	25	0					
1.50	308	293	178	170	279	163	206	189	114	105	74	64	42	34	99	65	61	37	33	59	33	30	0					
2.00	326	313	167	161	299	156	234	219	115	108	80	72	51	44	102	72	69	46	42	66	43	39	0					
2.50	337	327	158	154	312	149	255	241	114	109	84	77	58	52	104	77	74	54	50	71	50	47	0					
3.00	345	336	151	148	321	144	270	258	114	109	87	81	64	58	104	81	78	60	56	75	56	52	0					
4.00	357	349	143	141	334	137	292	282	113	110	92	87	72	67	105	86	84	68	65	81	64	61	0					
5.00	364	358	137	136	343	133	307	298	113	110	95	90	78	73	106	89	87	74	71	85	70	67	0					
10.00	379	376	124	124	360	122	340	335	111	110	101	98	91	88	106	97	96	88	86	93	85	82	0					
20.00	387	385	117	116	370	115	359	356	109	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	467	455	408	400	449	395	353	346	319	314	267	263	230	228	311	264	262	229	228	261	228	228	208
0.80	526	513	446	438	504	432	410	401	361	355	309	304	271	268	350	304	302	269	268	301	268	267	243
1.00	564	552	467	460	540	453	451	440	387	381	338	332	300	297	376	332	330	297	296	327	296	294	267
1.25	598	586	482	476	572	469	488	478	409	404	363	358	327	323	397	356	354	324	322	351	321	319	289
1.50	623	612	492	486	595	479	517	506	425	420	382	376	347	343	412	375	372	343	341	369	340	338	305
2.00	647	637	493	489	618	481	551	540	437	433	400	395	370	365	424	392	390	364	362	385	360	357	320
2.50	662	653	491	488	632	480	573	562	443	439	411	406	384	379	430	402	400	378	375	394	373	368	329
3.00	670	662	487	485	640	477	587	577	445	442	417	412	392	388	432	407	405	386	383	399	380	375	333
4.00	686	680	488	486	655	478	612	603	453	450	430	426	409	404	440	419	418	401	399	410	394	388	344
5.00	698	692	490	488	667	481	629	622	459	457	439	436	421	417	446	429	427	413	411	419	405	399	353
10.00	723	720	492	492	691	485	670	665	473	471	461	459	450	447	460	450	449	440	438	439	431	422	372
20.00	728	726	485	484	696	478	684	681	471	470	465	463	459	457	458	453	452	447	446	442	437	427	374

P.Trab.

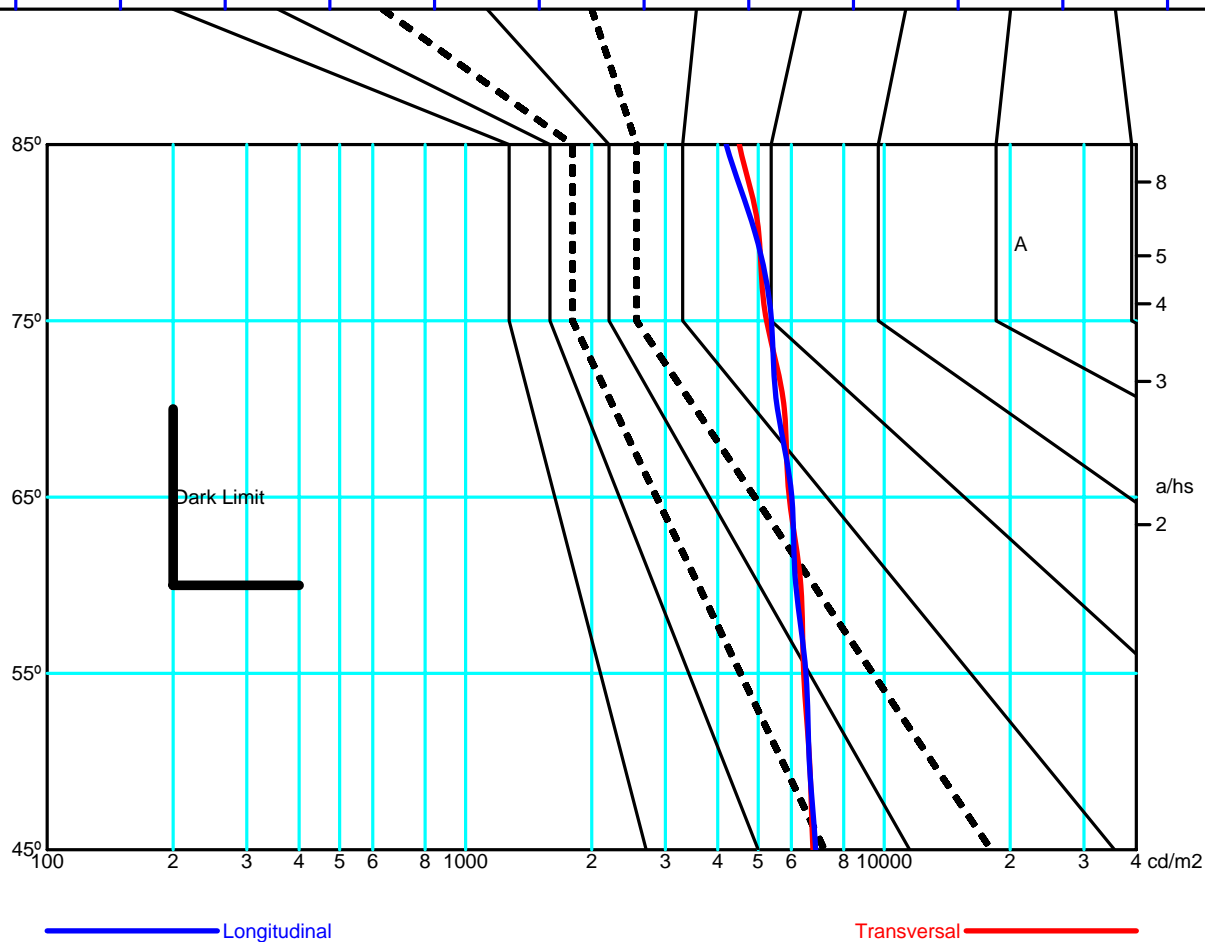
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	596	584	556	547	576	541	460	452	443	437	376	372	329	327	433	372	371	327	326	369	326	326	308
0.80	704	689	648	639	677	630	561	551	535	528	467	461	416	413	522	461	459	414	412	456	412	411	393
1.00	788	773	718	709	757	699	645	633	610	603	543	536	492	488	594	535	533	488	486	529	486	484	466
1.25	867	852	781	773	833	762	726	713	681	673	617	610	567	562	663	607	604	562	559	599	558	555	538
1.50	926	912	827	820	889	808	789	775	733	726	674	666	625	619	714	662	659	619	616	653	614	610	593
2.00	1000	999	891	885	971	873	885	871	811	805	760	752	716	709	790	746	743	708	704	735	701	695	680
2.50	1000	1000	931	926	1000	913	949	935	861	855	816	809	777	770	839	801	798	767	763	788	759	751	737
3.00	1000	1000	958	954	1000	941	995	982	896	891	856	849	821	814	874	840	837	810	806	826	800	792	778
4.00	1000	1000	990	987	1000	974	1000	1000	938	934	906	900	877	870	916	888	886	863	860	873	851	841	828
5.00	1000	1000	1000	1000	1000	994	1000	1000	964	961	937	931	911	905	941	918	916	897	893	902	883	871	859
10.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	999	988	984	995	982	981	970	967	963	953	937
20.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	997	991	973	963

LM53 SHR C0-C180: 1.214 SHR C90-C270: 1.226 SHR Superficial: 1.345

Luminaria		Ensayo		Lámpara	
Código	NENUFAR 1	Código	NENUFAR 1	Código	NENUFAR 1
Nombre	NENUFAR 1 LED 9W 2700K 24V	Nombre	NENUFAR 1 LED 9W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coord.	CG	Flujo Total	298.94 lm

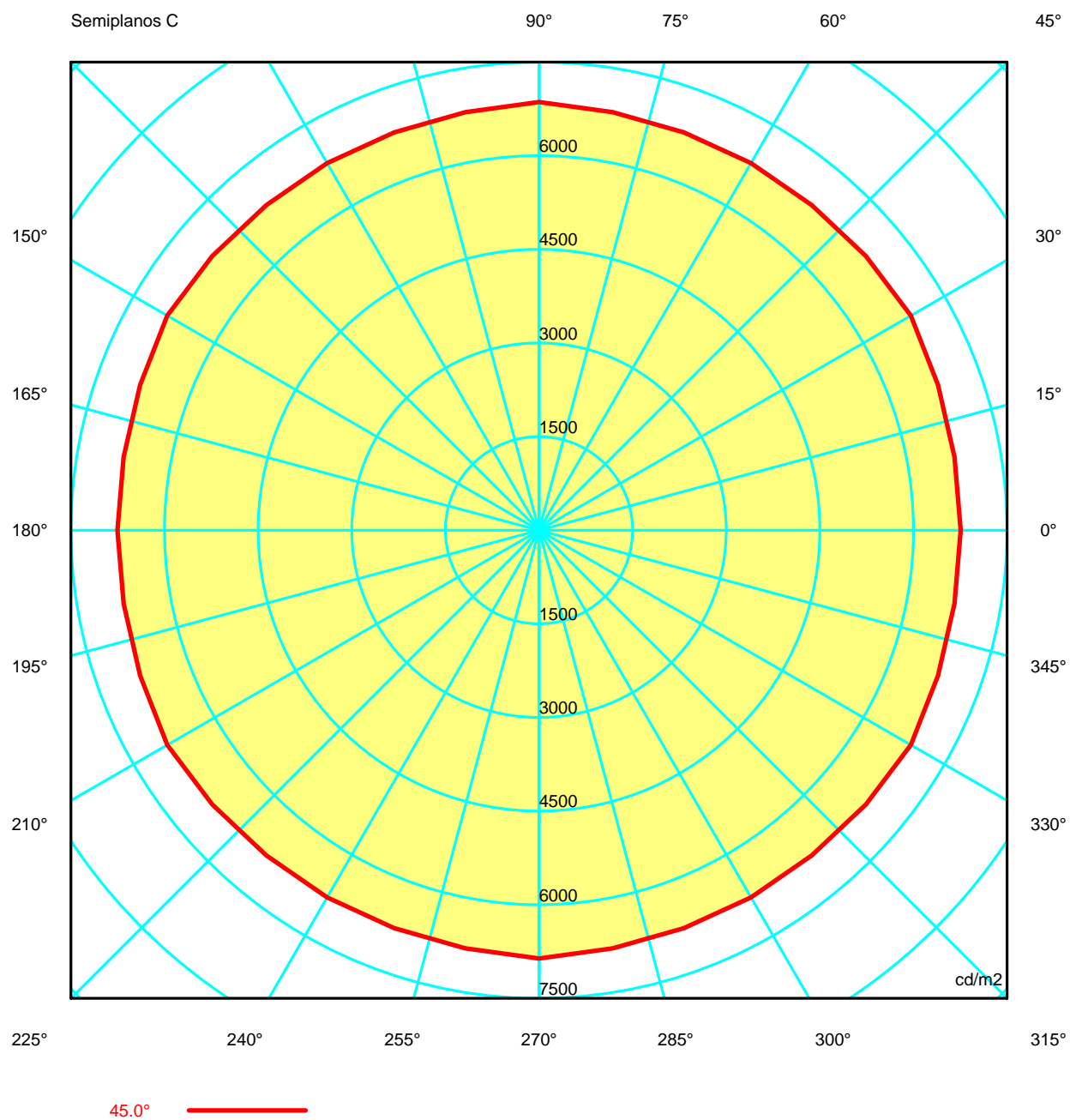
Luminancia Media [cd/m²]										
0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
6754	6632	6418	6319	5929	5770	5236	5014	4505	---	
90.0°	6861	6624	6502	6149	6014	5559	5377	4913	4194	---

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 1	Código	NENUFAR 1	Código	NENUFAR 1
Nombre	NENUFAR 1 LED 9W 2700K 24V	Nombre	NENUFAR 1 LED 9W 2700K 24V	Número	1
Familia	- MARSET	Fecha	29-11-2013	Posición	Universal
Rendimiento	100.00%	Sist. de Coord.	CG	Flujo Total	298.94 lm

Luminancia



Luminaria					Ensayo					Lámpara				
Código	NENUFAR 1				Código	NENUFAR 1				Código	NENUFAR 1			
Nombre	NENUFAR 1 LED 9W 2700K 24V				Nombre	NENUFAR 1 LED 9W 2700K 24V				Número	1			
Familia	- MARSET				Fecha	29-11-2013				Posición	Universal			
Rendimiento		100.00%			Sist. de Coord.		CG			Flujo Total		298.94 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	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	
G 5.0	7530.01	7533.21	7535.21	7534.80	7531.77	7529.79	7529.68	7529.20	7529.02	7529.53	7529.02	7529.20	7529.68	
G 10.0	7474.51	7470.68	7483.46	7500.94	7494.73	7482.79	7479.83	7484.46	7491.65	7498.59	7491.65	7484.46	7479.83	
G 15.0	7432.13	7420.69	7437.54	7459.22	7437.59	7427.73	7439.21	7427.66	7418.80	7426.52	7418.80	7427.66	7439.21	
G 20.0	7329.64	7314.11	7336.26	7370.24	7355.49	7341.40	7349.10	7352.80	7364.13	7387.83	7364.13	7352.80	7349.10	
G 25.0	7273.08	7252.70	7270.90	7295.82	7264.68	7264.08	7298.01	7279.06	7264.30	7270.61	7264.30	7279.06	7298.01	
G 30.0	7128.07	7093.94	7138.06	7205.78	7170.93	7142.00	7164.92	7179.55	7191.73	7210.20	7191.73	7179.55	7164.92	
G 35.0	7060.36	7027.18	7059.71	7104.33	7052.13	7037.51	7084.62	7080.76	7053.95	7033.67	7053.95	7080.76	7084.62	
G 40.0	6930.82	6930.83	6960.14	7002.11	6943.74	6920.43	6933.94	6941.88	6947.24	6964.46	6947.24	6941.88	6933.94	
G 45.0	6754.15	6757.86	6803.13	6879.05	6835.18	6798.83	6790.88	6782.46	6801.89	6861.20	6801.89	6782.46	6790.88	
G 50.0	6631.98	6647.92	6710.60	6760.99	6696.44	6659.12	6654.73	6613.97	6594.02	6623.83	6594.02	6613.97	6654.73	
G 55.0	6418.49	6419.44	6466.95	6553.62	6511.65	6438.33	6415.61	6439.07	6473.81	6502.09	6473.81	6439.07	6415.61	
G 60.0	6319.25	6298.94	6336.77	6387.06	6293.87	6250.60	6291.09	6264.82	6204.54	6148.76	6204.54	6264.82	6291.09	
G 65.0	5928.61	5930.68	5993.98	6109.37	6055.26	5950.63	5916.14	5966.21	6001.53	6013.71	6001.53	5966.21	5916.14	
G 70.0	5770.03	5778.59	5838.77	5905.08	5762.62	5709.62	5738.80	5727.18	5653.63	5558.63	5653.63	5727.18	5738.80	
G 75.0	5235.82	5278.04	5436.26	5650.31	5464.81	5283.57	5316.31	5390.43	5412.49	5376.53	5412.49	5390.43	5316.31	
G 80.0	5014.06	4914.62	5089.08	5324.49	5146.89	4946.90	4939.33	4964.57	4956.38	4912.90	4956.38	4964.57	4939.33	
G 85.0	4504.80	4320.72	4641.51	5051.12	4665.11	4401.01	4358.35	4270.36	4205.82	4194.07	4205.82	4270.36	4358.35	
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 1				Código	NENUFAR 1				Código	NENUFAR 1		
Nombre	NENUFAR 1 LED 9W 2700K 24V				Nombre	NENUFAR 1 LED 9W 2700K 24V				Número	1		
Familia	- MARSET				Fecha	29-11-2013				Posición	Universal		
Rendimiento		100.00%			Sist. de Coordin.		CG		Flujo Total		298.94 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	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18
G 5.0	7529.79	7531.77	7534.80	7535.21	7533.21	7530.01	7533.21	7535.21	7534.80	7531.77	7529.79	7529.68	7529.20
G 10.0	7482.79	7494.73	7500.94	7483.46	7470.68	7474.51	7470.68	7483.46	7500.94	7494.73	7482.79	7479.83	7484.46
G 15.0	7427.73	7437.59	7459.22	7437.54	7420.69	7432.13	7420.69	7437.54	7459.22	7437.59	7427.73	7439.21	7427.66
G 20.0	7341.40	7355.49	7370.24	7336.26	7314.11	7329.64	7314.11	7336.26	7370.24	7355.49	7341.40	7349.10	7352.80
G 25.0	7264.08	7264.68	7295.82	7270.90	7252.70	7273.08	7252.70	7270.90	7295.82	7264.68	7264.08	7298.01	7279.06
G 30.0	7142.00	7170.93	7205.78	7138.06	7093.94	7128.07	7093.94	7138.06	7205.78	7170.93	7142.00	7164.92	7179.55
G 35.0	7037.51	7052.13	7104.33	7059.71	7027.18	7060.36	7027.18	7059.71	7104.33	7052.13	7037.51	7084.62	7080.76
G 40.0	6920.43	6943.74	7002.11	6960.14	6930.83	6930.82	6930.83	6960.14	7002.11	6943.74	6920.43	6933.94	6941.88
G 45.0	6798.83	6835.18	6879.05	6803.13	6757.86	6754.15	6757.86	6803.13	6879.05	6835.18	6798.83	6790.88	6782.46
G 50.0	6659.12	6696.44	6760.99	6710.60	6647.92	6631.98	6647.92	6710.60	6760.99	6696.44	6659.12	6654.73	6613.97
G 55.0	6438.33	6511.65	6553.62	6466.95	6419.44	6418.49	6419.44	6466.95	6553.62	6511.65	6438.33	6415.61	6439.07
G 60.0	6250.60	6293.87	6387.06	6336.77	6298.94	6319.25	6298.94	6336.77	6387.06	6293.87	6250.60	6291.09	6264.82
G 65.0	5950.63	6055.26	6109.37	5993.98	5930.68	5928.61	5930.68	5993.98	6109.37	6055.26	5950.63	5916.14	5966.21
G 70.0	5709.62	5762.62	5905.08	5838.77	5778.59	5770.03	5778.59	5838.77	5905.08	5762.62	5709.62	5738.80	5727.18
G 75.0	5283.57	5464.81	5650.31	5436.26	5278.04	5235.82	5278.04	5436.26	5650.31	5464.81	5283.57	5316.31	5390.43
G 80.0	4946.90	5146.89	5324.49	5089.08	4914.62	5014.06	4914.62	5089.08	5324.49	5146.89	4946.90	4939.33	4964.57
G 85.0	4401.01	4665.11	5051.12	4641.51	4320.72	4504.80	4320.72	4641.51	5051.12	4665.11	4401.01	4358.35	4270.36
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 1				Código	NENUFAR 1				Código	NENUFAR 1		
Nombre	NENUFAR 1 LED 9W 2700K 24V				Nombre	NENUFAR 1 LED 9W 2700K 24V				Número	1		
Familia	- MARSET				Fecha	29-11-2013				Posición	Universal		
Rendimiento		100.00%			Sist. de Coordin.		CG		Flujo Total		298.94 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	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18	7546.18
G 5.0	7530.01	7533.21	7535.21	7534.80	7531.77	7529.79	7529.68	7529.20	7529.02	7529.53	7529.02	7529.20	7529.68
G 10.0	7474.51	7470.68	7483.46	7500.94	7494.73	7482.79	7479.83	7484.46	7491.65	7498.59	7491.65	7484.46	7479.83
G 15.0	7432.13	7420.69	7437.54	7459.22	7437.59	7427.73	7439.21	7427.66	7418.80	7426.52	7418.80	7427.66	7439.21
G 20.0	7329.64	7314.11	7336.26	7370.24	7355.49	7341.40	7349.10	7352.80	7364.13	7387.83	7364.13	7352.80	7349.10
G 25.0	7273.08	7252.70	7270.90	7295.82	7264.68	7264.08	7298.01	7279.06	7264.30	7270.61	7264.30	7279.06	7298.01
G 30.0	7128.07	7093.94	7138.06	7205.78	7170.93	7142.00	7164.92	7179.55	7191.73	7210.20	7191.73	7179.55	7164.92
G 35.0	7060.36	7027.18	7059.71	7104.33	7052.13	7037.51	7084.62	7080.76	7053.95	7033.67	7053.95	7080.76	7084.62
G 40.0	6930.82	6930.83	6960.14	7002.11	6943.74	6920.43	6933.94	6941.88	6947.24	6964.46	6947.24	6941.88	6933.94
G 45.0	6754.15	6757.86	6803.13	6879.05	6835.18	6798.83	6790.88	6782.46	6801.89	6861.20	6801.89	6782.46	6790.88
G 50.0	6631.98	6647.92	6710.60	6760.99	6696.44	6659.12	6654.73	6613.97	6594.02	6623.83	6594.02	6613.97	6654.73
G 55.0	6418.49	6419.44	6466.95	6553.62	6511.65	6438.33	6415.61	6439.07	6473.81	6502.09	6473.81	6439.07	6415.61
G 60.0	6319.25	6298.94	6336.77	6387.06	6293.87	6250.60	6291.09	6264.82	6204.54	6148.76	6204.54	6264.82	6291.09
G 65.0	5928.61	5930.68	5993.98	6109.37	6055.26	5950.63	5916.14	5966.21	6001.53	6013.71	6001.53	5966.21	5916.14
G 70.0	5770.03	5778.59	5838.77	5905.08	5762.62	5709.62	5738.80	5727.18	5653.63	5558.63	5653.63	5727.18	5738.80
G 75.0	5235.82	5278.04	5436.26	5650.31	5464.81	5283.57	5316.31	5390.43	5412.49	5376.53	5412.49	5390.43	5316.31
G 80.0	5014.06	4914.62	5089.08	5324.49	5146.89	4946.90	4939.33	4964.57	4956.38	4912.90	4956.38	4964.57	4939.33
G 85.0	4504.80	4320.72	4641.51	5051.12	4665.11	4401.01	4358.35	4270.36	4205.82	4194.07	4205.82	4270.36	4358.35
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