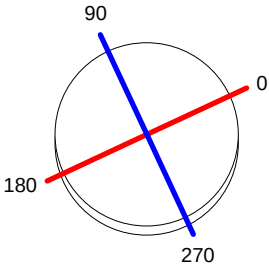


Luminaria		Ensayo				Lámpara	
Código	POLO SPOT	Código	POLO SPOT	Código	POLO SPOT		
Nombre	Proyector POLO SPOT 7W	Nombre	Proyector POLO SPOT 7W	Número	1		
Familia	- MARSET	Fecha	15-09-2015	Posición	Universal		
Flujo Luminaria	436.28 lm	Potencia luminaria	7.00 W	Eficiencia	62.33 lm/W	Rendimiento	100.00%
Flujo de Lámpara	436.29 lm	Valor Máximo	1884.75 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico
Luminaria Redonda	Diam.	48 mm	Altura	150 mm			
Área Luminosa Redonda	Diam.	30 mm	Altura	0 mm			
Área Luminosa Horizontal	0.000707 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°		0.000171 m2			
Sist. de Coordén.	CG	Tipo de Simetría		Bisimétrico			
Fecha	15-09-2015	Máximo Ángulo Gamma		90			
Distancia de Ensayo	6.44	Flujo de Ensayo		436.29 lm			
Operador	Asselum T2	Tensión de alimentación		230.00 V			
Temperatura	23.00 °C	Corriente de alimentación					
Humedad	56.00 %	Fotocélula		Prc			
Notas							

Lámparas de la Luminaria					
Familia	Código	Nombre	Flujo [lm]	Pot. [W]	Cant.
- MARSET	POLO SPOT	Lámpara led 7W	436.29	7.00	1
C.I.E.	89 97 99 100 100	D DIN 5040	A60		
F UTE	1.00 A	B NBN	BZ 1		

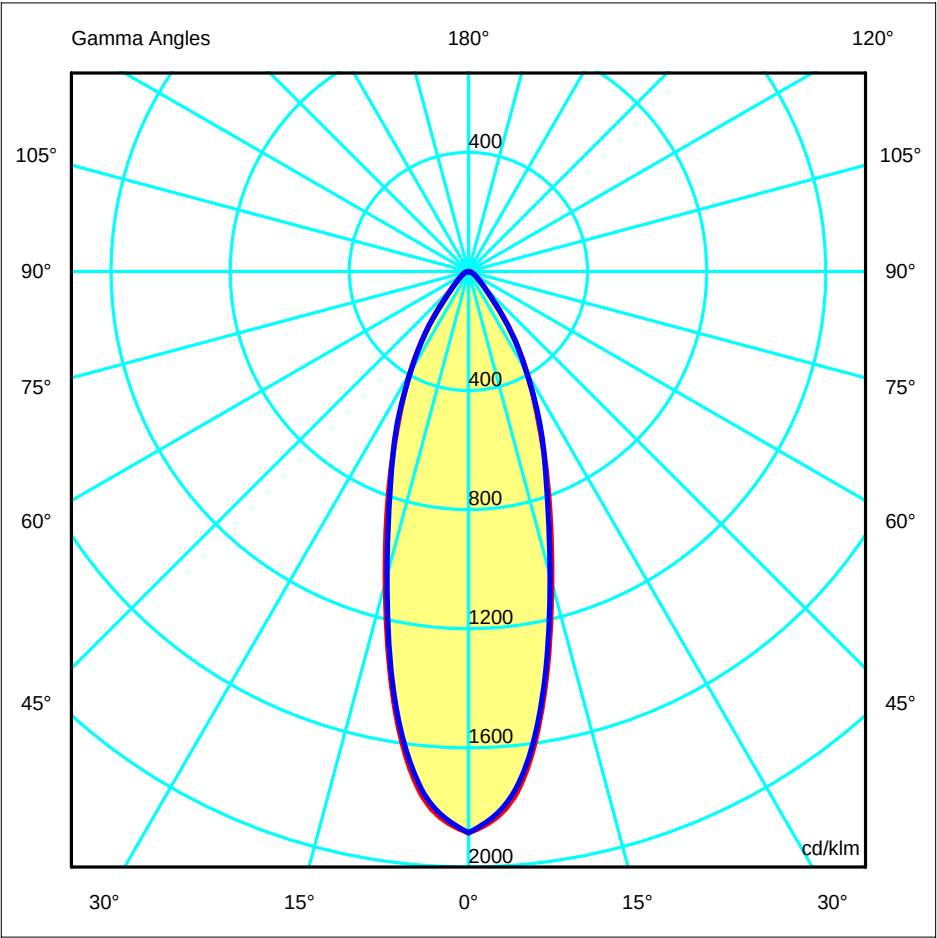
Diam=48mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0

ULOR 0.00 %
DLOR 100.00 %
RN 0.00 %



Luminaria		Ensayo				Lámpara	
Código	POLO SPOT	Código	POLO SPOT			Código	POLO SPOT
Nombre	Proyector POLO SPOT 7W	Nombre	Proyector POLO SPOT 7W			Número	1
Familia	- MARSET	Fecha	15-09-2015			Posición	Universal
Flujo Luminaria	436.28 lm	Potencia luminaria	7.00 W	Eficiencia	62.33 lm/W	Rendimiento	100.00%
Flujo de Lámpara	436.29 lm	Valor Máximo	1884.75 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico
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	1884.75	1884.75	1884.75	1884.75	1884.75	1884.75	1884.75
G 5.0	1771.07	1756.25	1765.48	1756.83	1759.92	1760.28	1754.44
G 10.0	1453.80	1436.45	1443.29	1427.91	1438.48	1431.43	1439.24
G 15.0	1079.40	1064.03	1067.79	1058.17	1065.63	1051.62	1057.11
G 20.0	784.07	764.76	772.78	762.66	769.30	767.00	766.56
G 25.0	556.50	553.41	550.34	551.59	550.66	547.65	568.73
G 30.0	393.76	389.82	390.07	388.70	385.91	387.79	388.62
G 35.0	254.07	250.60	251.67	248.92	243.54	242.67	253.68
G 40.0	143.58	138.83	137.65	136.29	131.48	134.29	131.14
G 45.0	76.93	76.50	75.57	74.81	74.71	72.80	76.88
G 50.0	49.19	47.82	48.45	47.59	47.84	48.19	48.21
G 55.0	34.55	34.00	34.45	34.15	34.50	33.97	35.27
G 60.0	25.92	25.30	25.83	25.47	25.82	26.06	25.95
G 65.0	19.20	19.25	19.12	18.99	19.15	18.91	19.58
G 70.0	13.66	13.58	13.55	13.46	13.66	13.79	13.61
G 75.0	8.98	8.97	9.02	8.92	8.86	8.82	9.26
G 80.0	4.92	4.82	4.82	4.82	4.85	5.02	4.85
G 85.0	1.78	1.87	1.86	1.85	1.77	1.79	1.92
G 90.0	0.36	0.32	0.30	0.30	0.30	0.31	0.36

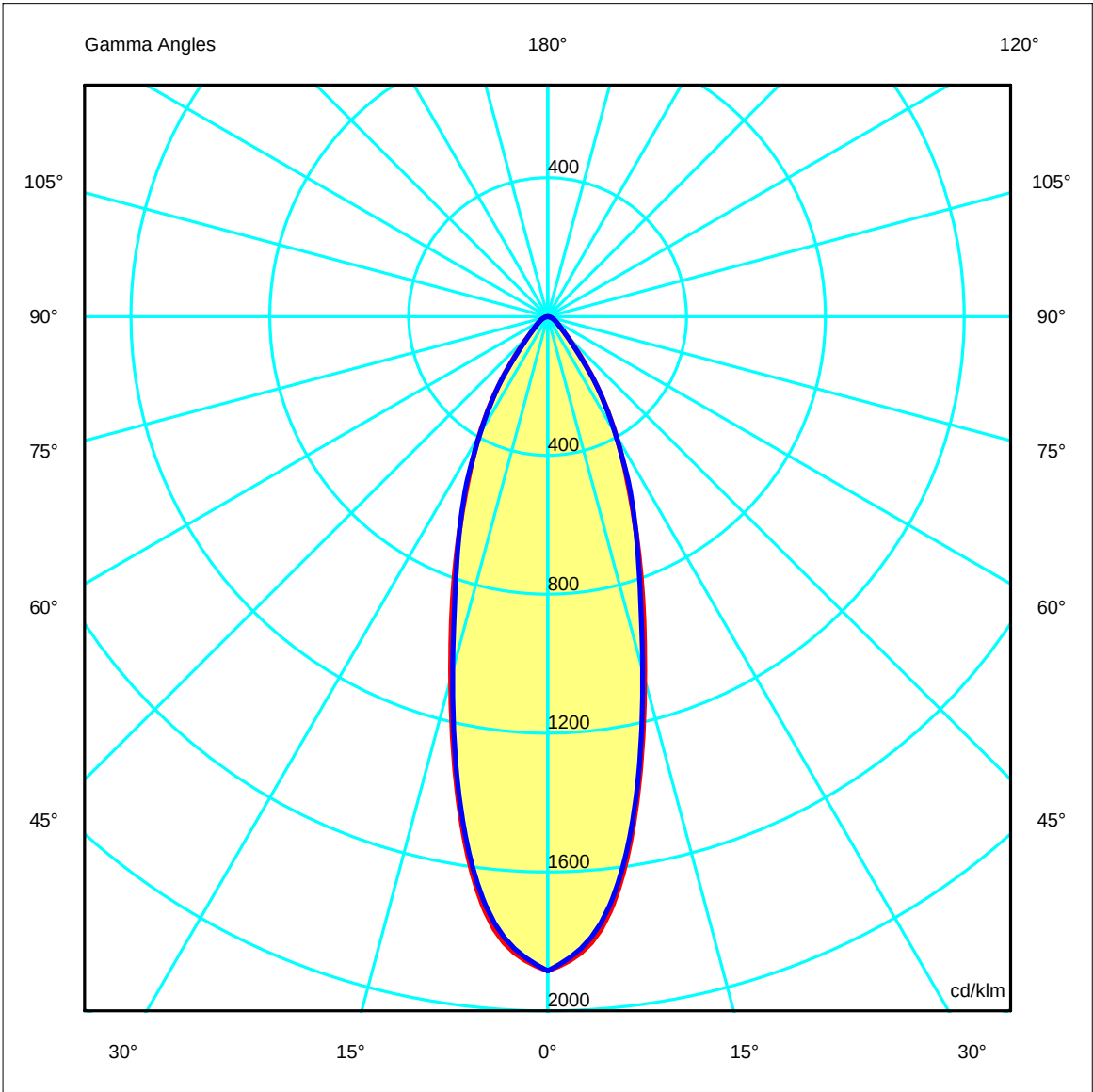
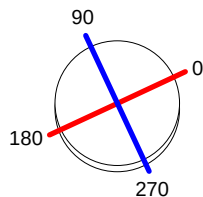
Luminaria		Ensayo		Lámpara		
Código	POLO SPOT	Código	POLO SPOT	Código	POLO SPOT	
Nombre	Proyector POLO SPOT 7W	Nombre	Proyector POLO SPOT 7W	Número	1	
Familia	- MARSET	Fecha	15-09-2015	Posición	Universal	
Flujo Luminaria	436.28 lm	Potencia luminaria	7.00 W	Eficiencia	62.33 lm/W	Rendimiento 100.00%
Flujo de Lámpara	436.29 lm	Valor Máximo	1884.75 cd/klm	Posición	C=0.00 G=0.00	CG Bisimétrico

Diam=48mm

C Halfplanes

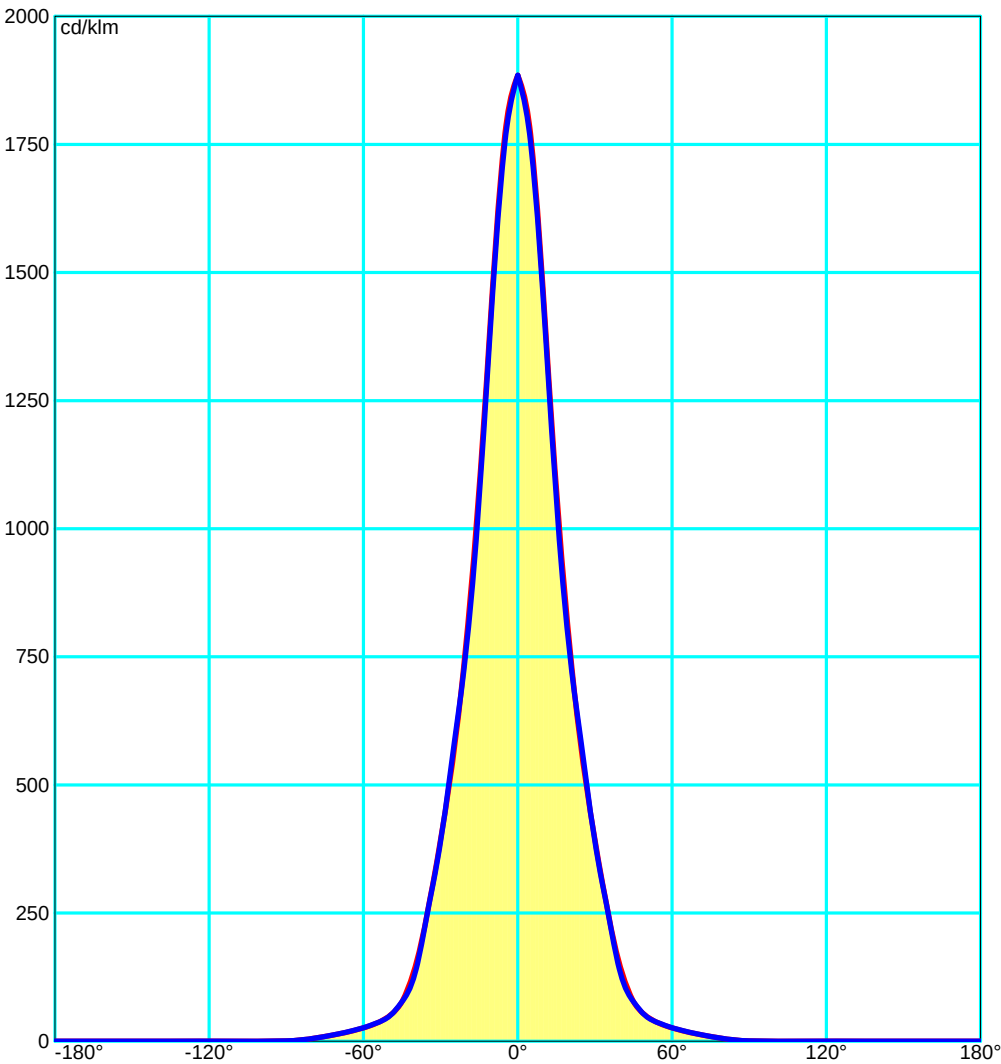
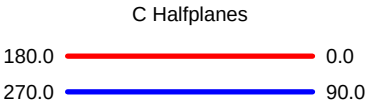
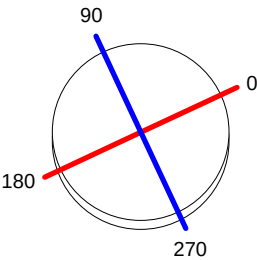
180.0 ————— 0.0

270.0 ————— 90.0



Luminaria		Ensayo		Lámpara			
Código	POLO SPOT	Código	POLO SPOT	Código	POLO SPOT		
Nombre	Proyector POLO SPOT 7W	Nombre	Proyector POLO SPOT 7W	Número	1		
Familia	- MARSET	Fecha	15-09-2015	Posición	Universal		
Flujo Luminaria	436.28 lm	Potencia luminaria	7.00 W	Eficiencia	62.33 lm/W	Rendimiento	100.00%
Flujo de Lámpara	436.29 lm	Valor Máximo	1884.75 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico

Diam=48mm



Luminaria		Ensayo			Lámpara		
Código	POLO SPOT	Código	POLO SPOT		Código	POLO SPOT	
Nombre	Proyector POLO SPOT 7W	Nombre	Proyector POLO SPOT 7W		Número	1	
Familia	- MARSET	Fecha	15-09-2015		Posición	Universal	
Flujo Luminaria	436.28 lm	Potencia luminaria	7.00 W	Eficiencia	62.33 lm/W	Rendimiento	100.00%
Flujo de Lámpara	436.29 lm	Valor Máximo	1884.75 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico

UGR
S = 0.250

Reflectancias										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions										
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	22.3	23.1	22.5	23.3	23.4	22.2	23.0	22.4	23.2	23.4
x=2H y=3H	22.7	23.4	23.0	23.6	23.8	22.6	23.3	22.9	23.6	23.8
x=2H y=4H	22.9	23.6	23.2	23.8	24.0	22.8	23.5	23.1	23.7	24.0
x=2H y=6H	23.0	23.6	23.3	23.9	24.1	22.9	23.6	23.3	23.8	24.1
x=2H y=8H	23.0	23.6	23.4	23.9	24.2	23.0	23.6	23.3	23.9	24.2
x=2H y=12H	23.0	23.6	23.4	23.9	24.2	23.0	23.5	23.3	23.8	24.2
x=4H y=2H	22.4	23.1	22.7	23.3	23.5	22.3	23.0	22.6	23.3	23.5
x=4H y=3H	23.0	23.6	23.4	23.9	24.1	22.9	23.5	23.3	23.8	24.1
x=4H y=4H	23.3	23.8	23.7	24.1	24.4	23.2	23.7	23.6	24.0	24.4
x=4H y=6H	23.5	23.9	23.9	24.3	24.6	23.4	23.8	23.8	24.2	24.6
x=4H y=8H	23.5	23.9	24.0	24.3	24.6	23.5	23.9	23.9	24.2	24.6
x=4H y=12H	23.6	23.9	24.0	24.3	24.7	23.5	23.8	24.0	24.2	24.7
x=8H y=4H	23.4	23.7	23.8	24.1	24.5	23.3	23.7	23.7	24.1	24.5
x=8H y=6H	23.7	23.9	24.1	24.4	24.8	23.6	23.9	24.1	24.3	24.8
x=8H y=8H	23.7	24.0	24.2	24.4	24.8	23.7	23.9	24.2	24.4	24.8
x=8H y=12H	23.8	24.0	24.3	24.4	24.9	23.7	23.9	24.2	24.4	24.9
x=12H y=4H	23.4	23.7	23.8	24.1	24.4	23.3	23.6	23.7	24.0	24.4
x=12H y=6H	23.6	23.9	24.1	24.3	24.7	23.6	23.8	24.1	24.3	24.7
x=12H y=8H	23.8	23.9	24.2	24.4	24.9	23.7	23.9	24.2	24.4	24.9

Luminaria			Ensayo			Lámpara		
Código	POLO SPOT		Código	POLO SPOT		Código	POLO SPOT	
Nombre	Proyector POLO SPOT 7W		Nombre	Proyector POLO SPOT 7W		Número	1	
Familia	- MARSET		Fecha	15-09-2015		Posición	Universal	
Flujo Luminaria	436.28 lm	Potencia luminaria	7.00 W	Eficiencia	62.33 lm/W	Rendimiento	100.00%	
Flujo de Lámpara	436.29 lm	Valor Máximo	1884.75 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico	

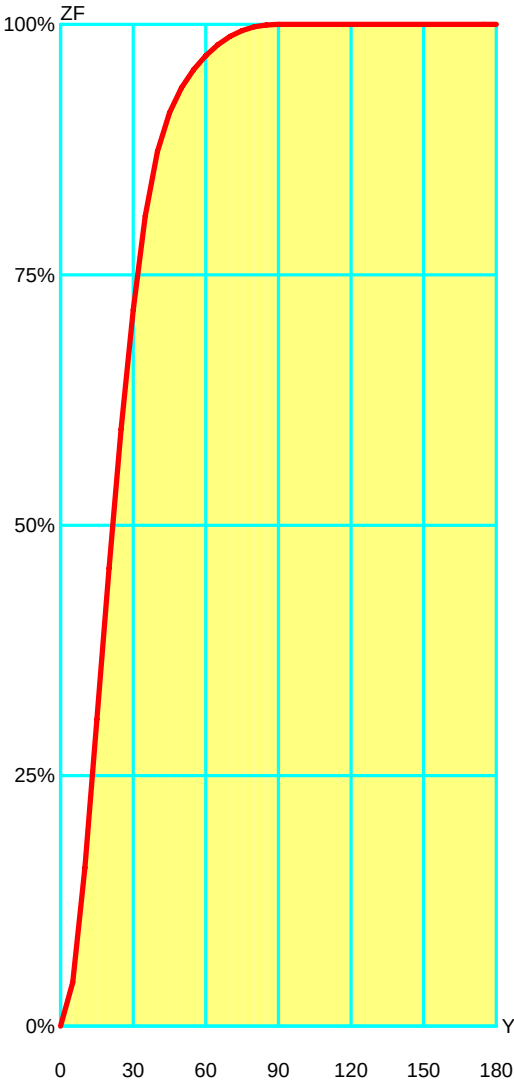
Total Flux=436.29 Luminaire Flux=436.28

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	0.65	0.70	0.75	0.80	0.83	0.88	0.92	0.94	0.96	0.97	1.00	1.01
RC	-	-	-	-	-	-	-	-	-	-	-	-

Zonal Flux per 1000 Lumen													
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130
ZF(Y)	158	457	715	873	937	969	988	998	1000	1000	1000	1000	1000

CIE Flux Codes
89 97 99 100 100

C.I.E.	-/-/-/-/-/-/-/-/-/-	LOR	99.99839 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	1.00 A	DLOR	99.99839 %
B NBN	BZ 1	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	43.57	43.57	4.36 %	4.36 %
10°	114.39	157.96	11.44 %	15.80 %
15°	148.29	306.26	14.83 %	30.63 %
20°	150.92	457.18	15.09 %	45.72 %
25°	138.59	595.76	13.86 %	59.58 %
30°	119.16	714.92	11.92 %	71.49 %
35°	93.87	808.79	9.39 %	80.88 %
40°	64.16	872.95	6.42 %	87.30 %
45°	39.11	912.06	3.91 %	91.21 %
50°	24.92	936.97	2.49 %	93.70 %
55°	17.92	954.90	1.79 %	95.49 %
60°	13.88	968.78	1.39 %	96.88 %
65°	10.91	979.69	1.09 %	97.97 %
70°	8.29	987.98	0.83 %	98.80 %
75°	5.90	993.88	0.59 %	99.39 %
80°	3.70	997.58	0.37 %	99.76 %
85°	1.82	999.40	0.18 %	99.94 %
90°	0.59	999.98	0.06 %	100.00 %
95°	0.00	999.98	0.00 %	100.00 %
100°	0.00	999.98	0.00 %	100.00 %
105°	0.00	999.98	0.00 %	100.00 %
110°	0.00	999.98	0.00 %	100.00 %
115°	0.00	999.98	0.00 %	100.00 %
120°	0.00	999.98	0.00 %	100.00 %
125°	0.00	999.98	0.00 %	100.00 %
130°	0.00	999.98	0.00 %	100.00 %
135°	0.00	999.98	0.00 %	100.00 %
140°	0.00	999.98	0.00 %	100.00 %
145°	0.00	999.98	0.00 %	100.00 %
150°	0.00	999.98	0.00 %	100.00 %
155°	0.00	999.98	0.00 %	100.00 %
160°	0.00	999.98	0.00 %	100.00 %
165°	0.00	999.98	0.00 %	100.00 %
170°	0.00	999.98	0.00 %	100.00 %
175°	0.00	999.98	0.00 %	100.00 %
180°	0.00	999.98	0.00 %	100.00 %

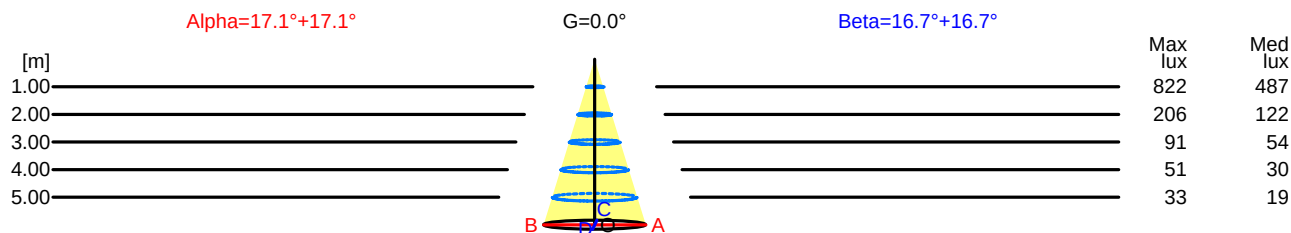
Luminaria			Ensayo			Lámpara			
Código	POLO SPOT		Código	POLO SPOT		Código	POLO SPOT		
Nombre	Proyector POLO SPOT 7W		Nombre	Proyector POLO SPOT 7W		Número	1		
Familia	- MARSET		Fecha	15-09-2015		Posición	Universal		
Flujo Luminaria			436.28 lm	Potencia luminaria	7.00 W	Eficiencia	62.33 lm/W	Rendimiento	100.00%
Flujo de Lámpara			436.29 lm	Valor Máximo	1884.75 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico

Apertura a 50.00 % de Max Intensidad

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	0.31	0.62	0.93	1.23	1.54	OC	0.30	0.60	0.90	1.20	1.50
OB	0.31	0.62	0.93	1.23	1.54	OD	0.30	0.60	0.90	1.20	1.50

Intensidades Luminosas [cd/klm]

	0	5	15	25	35	45	55	65	75	85
OA	822.30	772.70	470.93	242.80	110.85	33.56	15.07	8.37	3.92	0.78
OB	822.30	772.70	470.93	242.80	110.85	33.56	15.07	8.37	3.92	0.78
OC	822.30	765.45	461.21	248.13	110.68	33.54	15.39	8.54	4.04	0.84
OD	822.30	765.45	461.21	248.13	110.68	33.54	15.39	8.54	4.04	0.84



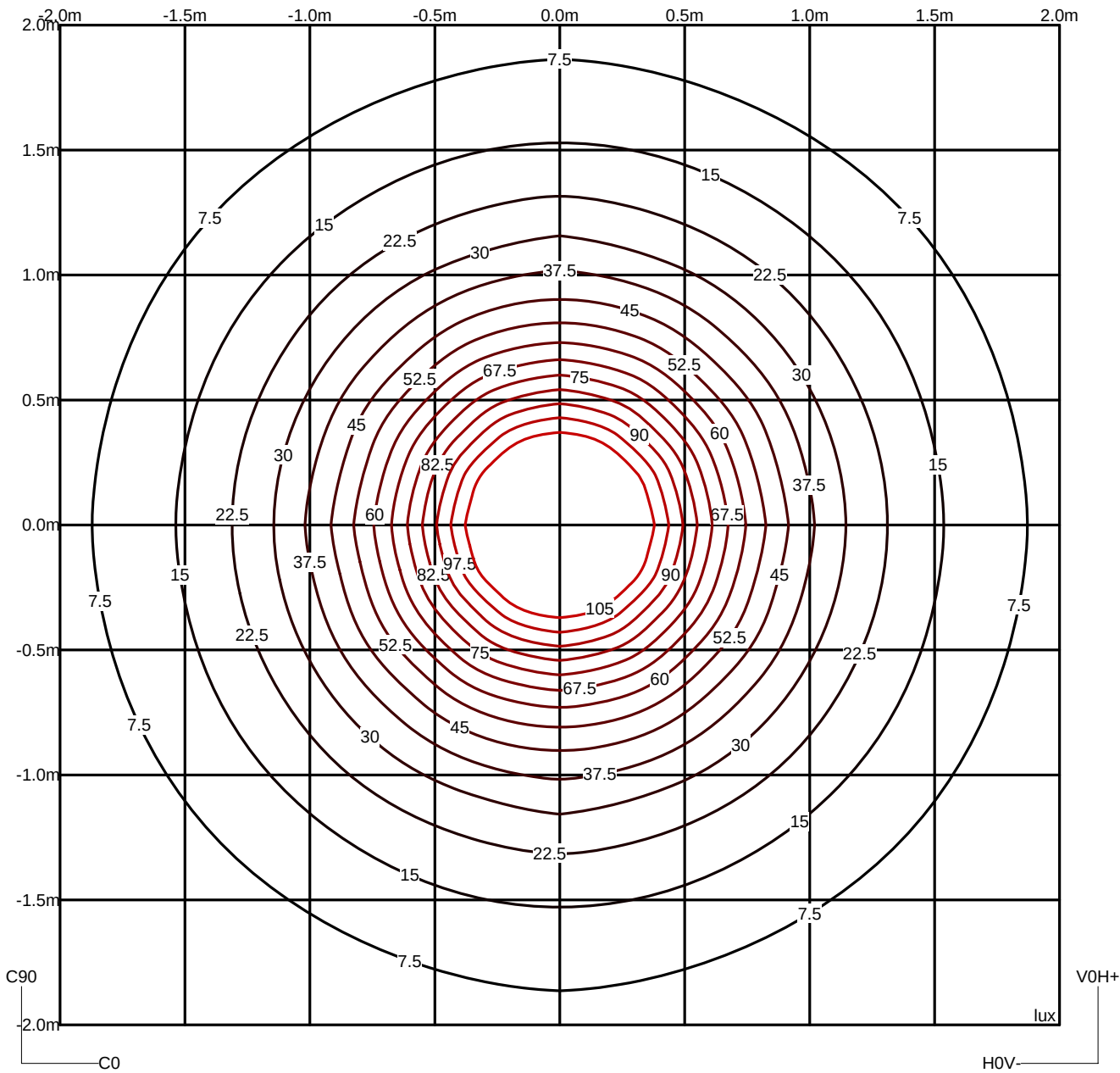
H[m]	D[m]	Max lux	Med lux	Alpha=17.1°+17.1°	G=0.0	
1.00	0.62	822	487			
2.00	1.23	206	122			
3.00	1.85	91	54			
4.00	2.47	51	30			
5.00	3.09	33	19			

H[m]	D[m]	Max lux	Med lux	Beta=16.7°+16.7°	G=0.0	
1.00	0.60	822	487			
2.00	1.20	206	122			
3.00	1.81	91	54			
4.00	2.41	51	30			
5.00	3.01	33	19			

Luminaria		Ensayo		Lámpara		
Código	POLO SPOT	Código	POLO SPOT	Código	POLO SPOT	
Nombre	Proyector POLO SPOT 7W	Nombre	Proyector POLO SPOT 7W	Número	1	
Familia	- MARSET	Fecha	15-09-2015	Posición	Universal	
Flujo Luminaria	436.28 lm	Potencia luminaria	7.00 W	Eficiencia	62.33 lm/W	Rendimiento 100.00%
Flujo de Lámpara	436.29 lm	Valor Máximo	1884.75 cd/klm	Posición	C=0.00 G=0.00	CG Bisimétrico

Isolux (Suelo)

Posición Luminaria X=0.00m Y=0.00m Z=2.50m



Luminaria			Ensayo			Lámpara			
Código	POLO SPOT		Código	POLO SPOT		Código	POLO SPOT		
Nombre	Proyector POLO SPOT 7W		Nombre	Proyector POLO SPOT 7W		Número	1		
Familia	- MARSET		Fecha	15-09-2015		Posición	Universal		
Flujo Luminaria			436.28 lm	Potencia luminaria	7.00 W	Eficiencia	62.33 lm/W	Rendimiento	100.00%
Flujo de Lámpara			436.29 lm	Valor Máximo	1884.75 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico

Utilización CIE

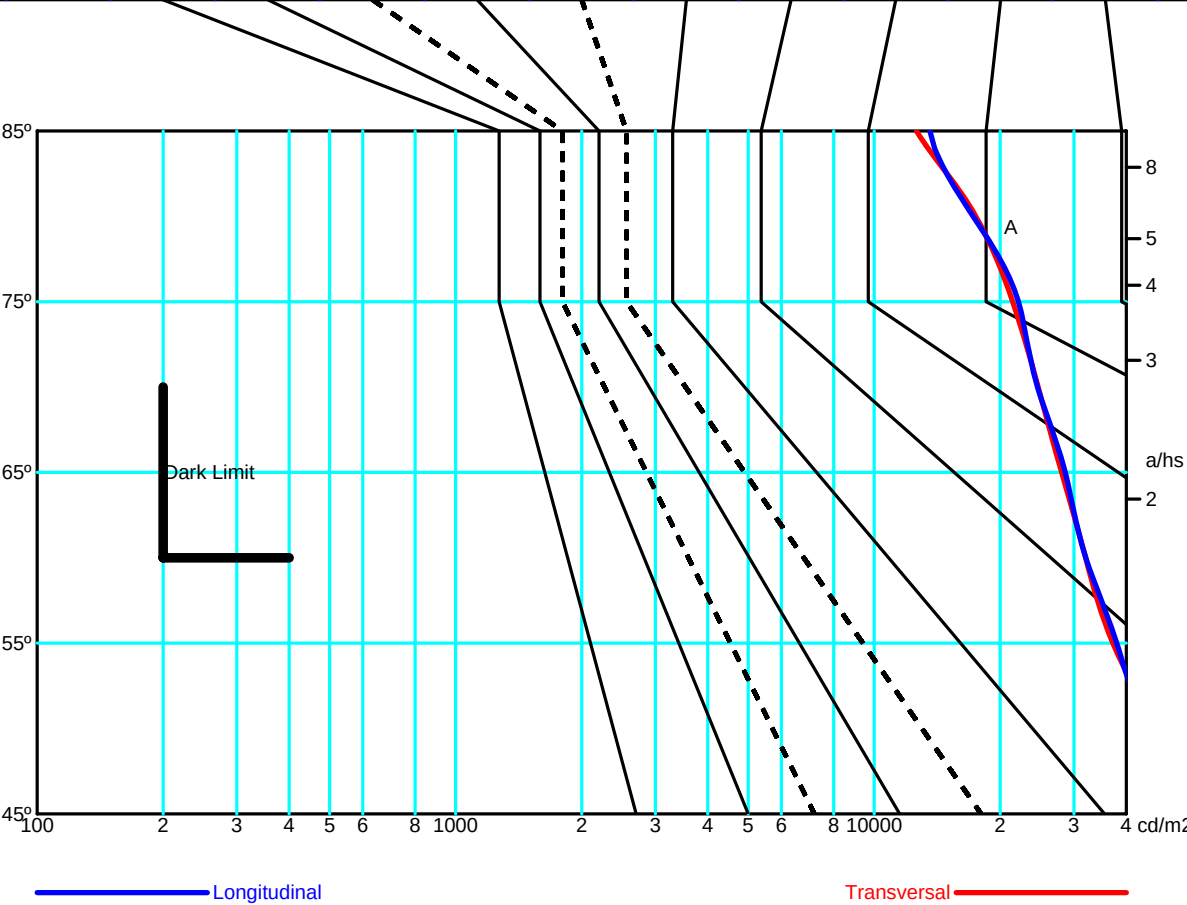
Montaje	Directo				Normalización				Normalizados				Raz. de Susp.				1/3				CIE Estándar							
Techo																												
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000					
0.60	172	155	106	96	147	92	97	83	57	49	34	26	18	12	46	28	24	14	11	23	12	10	0					
0.80	205	188	115	106	179	101	126	111	67	59	43	34	25	18	55	36	32	21	17	31	18	16	0					
1.00	228	212	116	108	202	104	150	134	73	65	50	41	32	24	61	42	39	27	23	37	24	21	0					
1.25	250	236	116	110	224	106	175	159	78	71	56	48	39	31	67	49	46	34	30	43	31	28	0					
1.50	267	254	116	110	242	106	195	180	82	76	62	54	45	38	71	54	51	41	36	49	37	33	0					
2.00	289	278	111	108	265	104	226	211	85	80	69	62	56	48	76	62	59	51	46	57	46	43	0					
2.50	304	295	108	105	281	102	248	234	87	83	74	68	63	56	79	68	65	58	54	62	54	50	0					
3.00	315	307	105	103	293	100	264	252	88	85	78	72	69	62	81	72	69	64	60	67	60	56	0					
4.00	331	324	104	102	310	100	287	277	91	89	84	79	77	71	85	78	76	72	69	74	68	65	0					
5.00	342	336	103	102	322	100	303	294	93	91	87	84	82	77	88	83	81	78	75	78	74	70	0					
10.00	364	361	102	102	347	100	338	332	98	97	96	94	94	91	94	92	91	91	89	89	87	84	0					
20.00	377	375	102	102	361	100	357	355	101	100	101	100	101	99	97	98	97	98	97	95	95	93	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	316	307	233	228	301	225	237	231	181	178	152	149	131	129	176	149	148	130	129	147	129	128	106					
0.80	352	342	248	243	334	240	272	264	200	196	171	167	150	147	193	168	166	148	147	165	147	146	120					
1.00	370	359	248	244	350	239	292	282	205	201	179	174	159	155	197	174	172	156	154	170	154	152	123					
1.25	388	377	249	245	365	240	312	302	210	206	186	182	168	163	201	181	179	164	162	176	161	159	127					
1.50	400	390	248	244	376	239	327	316	212	209	191	186	174	169	203	185	183	169	167	180	166	163	128					
2.00	403	394	230	227	377	222	336	326	202	199	185	180	171	166	192	178	176	165	162	172	161	157	118					
2.50	399	391	212	210	372	204	337	327	189	186	175	171	163	158	179	167	165	157	154	160	151	147	106					
3.00	390	383	193	191	363	186	333	323	173	171	162	158	153	148	163	154	152	146	143	146	139	134	91					
4.00	386	381	176	174	358	169	334	326	160	158	152	148	144	140	149	143	141	136	134	134	129	123	77					
5.00	381	376	162	160	351	155	332	324	148	146	142	138	136	132	137	132	131	127	125	123	119	112	65					
10.00	334	331	97	96	304	90	294	289	88	87	86	84	84	81	77	75	74	73	72	65	64	55	4					
20.00	239	237	0	0	207	0	204	201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
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	846	836	789	784	830	780	752	745	724	720	686	683	659	657	718	683	682	658	657	681	657	656	646					
0.80	919	908	847	841	898	836	821	812	783	778	745	741	717	714	774	740	739	714	713	737	713	711	701					
1.00	981	969	894	889	956	882	883	872	835	830	800	795	773	769	825	794	792	769	767	789	766	764	754					
1.25	1000	1000	932	927	1000	920	937	925	878	873	845	839	819	814	865	837	835	814	812	831	810	807	798					
1.50	1000	1000	958	953	1000	946	978	965	908	903	879	872	854	848	895	869	867	848	845	862	843	838	829					
2.00	1000	1000	997	993	1000	985	1000	1000	957	952	933	926	913	906	941	921	919	904	900	912	897	890	882					
2.50	1000	1000	1000	1000	1000	1000	1000	1000	987	983	968	961	951	944	970	954	952	940	936	943	931	924	916					
3.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	992	986	979	971	991	978	976	967	963	966	956	947	939					
4.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	999	993	989	987	980	969	961					
5.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	994	982	974					
10.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	999					
20.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000					

LM53 SHR C0-C180: 0.545 SHR C90-C270: 0.536 SHR Superficial: 0.618

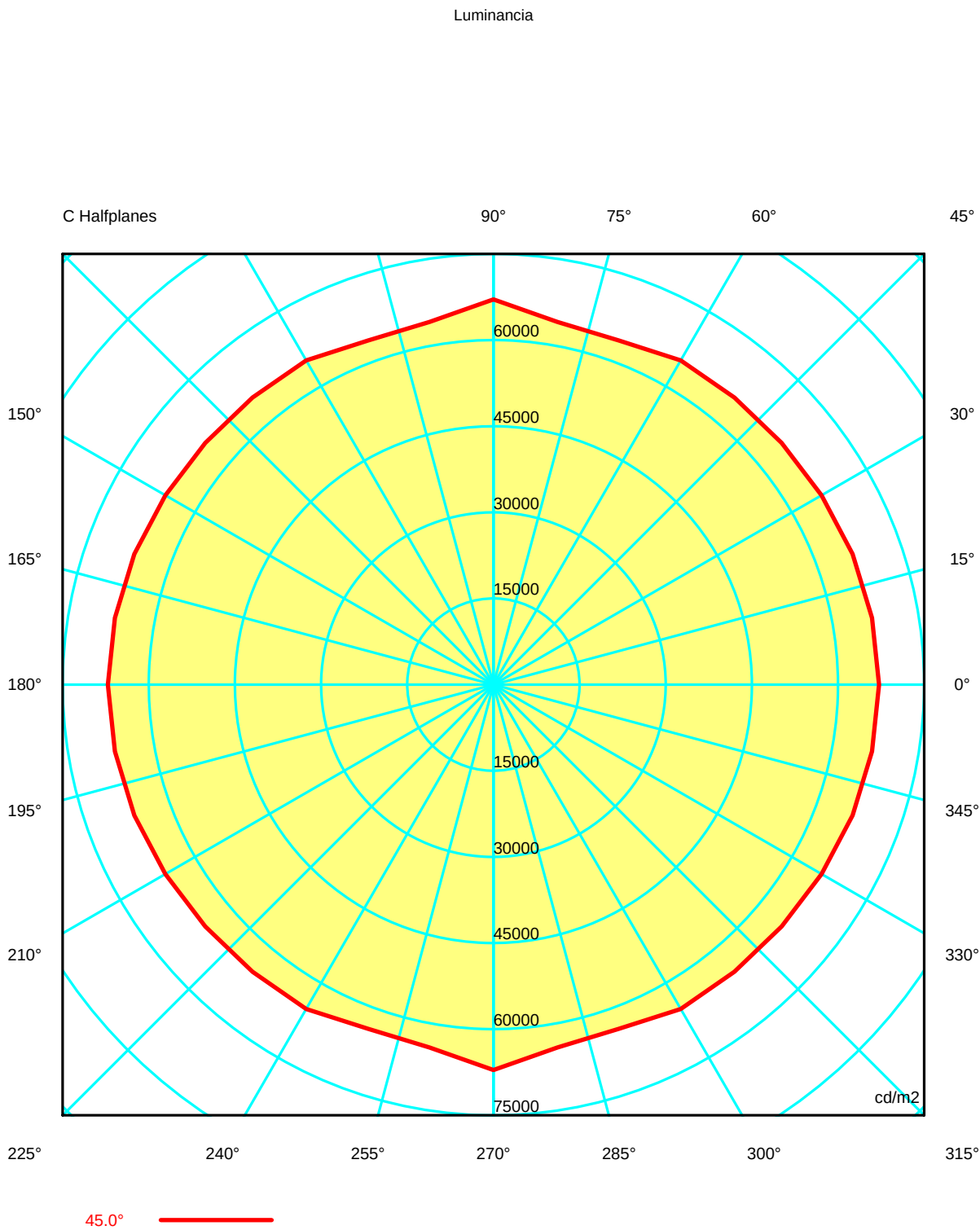
Luminaria		Ensayo				Lámpara	
Código	POLO SPOT	Código	POLO SPOT		Código	POLO SPOT	
Nombre	Proyector POLO SPOT 7W	Nombre	Proyector POLO SPOT 7W		Número	1	
Familia	- MARSET	Fecha	15-09-2015		Posición	Universal	
Flujo Luminaria	436.28 lm	Potencia luminaria	7.00 W	Eficiencia	62.33 lm/W	Rendimiento	100.00%
Flujo de Lámpara	436.29 lm	Valor Máximo	1884.75 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico

Luminancia Media [cd/m²]										
0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
90.0°	67134	47221	37168	31994	28029	24643	21419	17479	12618	---
	67096	46285	37949	32029	28597	24553	22082	17222	13583	---

Flush mounted or longitudinal view												
		Illumination(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	POLO SPOT	Código	POLO SPOT	Código	POLO SPOT		
Nombre	Proyector POLO SPOT 7W	Nombre	Proyector POLO SPOT 7W	Número	1		
Familia	- MARSET	Fecha	15-09-2015	Posición	Universal		
Flujo Luminaria	436.28 lm	Potencia luminaria	7.00 W	Eficiencia	62.33 lm/W	Rendimiento	100.00%
Flujo de Lámpara	436.29 lm	Valor Máximo	1884.75 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico



Luminaria				Ensayo				Lámpara						
Código	POLO	SPOT		Código	POLO	SPOT		Código	POLO	SPOT				
Nombre	Proyector	POLO	SPOT 7W	Nombre	Proyector	POLO	SPOT 7W	Número	1					
Familia	- MARSET			Fecha	15-09-2015			Posición Universal						
Flujo Luminaria			436.28 lm	Potencia luminaria		7.00 W		Eficiencia		62.33 lm/W		Rendimiento		100.00%
Flujo de Lámpara			436.29 lm	Valor Máximo		1884.75 cd/klm		Posición		C=0.00 G=0.00		CG		Bisimétrico
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	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	
G 5.0	1097102.37	1089156.61	1089431.28	1093638.26	1090275.88	1088917.64	1090193.66	1090918.29	1089470.79	1086804.04	1089470.79	1090918.29	1090193.66	
G 10.0	910981.92	901719.21	901482.36	904394.38	897304.16	895956.28	901379.15	898681.39	897224.91	901858.29	897224.91	898681.39	901379.15	
G 15.0	689593.82	681499.60	680365.79	682177.41	677441.49	677395.73	680799.31	674881.42	671314.34	675353.86	671314.34	674881.42	680799.31	
G 20.0	514902.43	504260.61	503474.17	507490.37	502923.04	501352.81	505204.09	504198.14	503598.60	503405.49	503598.60	504198.14	505204.09	
G 25.0	378920.55	377592.16	375944.55	374726.01	375124.97	375862.78	374938.62	372343.31	376027.58	387243.98	376027.58	372343.31	374938.62	
G 30.0	280577.59	278395.68	277638.51	277953.79	277574.10	276157.54	274987.36	275733.50	276686.81	276916.36	276686.81	275733.50	274987.36	
G 35.0	191400.97	189258.82	188922.26	189595.20	188619.22	186190.17	183469.25	182121.38	184789.75	191109.27	184789.75	182121.38	183469.25	
G 40.0	115665.14	112858.67	111229.20	110883.26	110603.63	108299.58	105913.83	107397.44	107990.81	105644.69	107990.81	107397.44	105913.83	
G 45.0	67133.56	66925.59	66539.92	65950.80	65508.92	65259.99	65204.02	63780.71	64153.09	67096.14	64153.09	63780.71	65204.02	
G 50.0	47221.40	46113.23	46063.80	46516.51	45989.34	45630.84	45932.80	46196.73	46270.60	46284.86	46270.60	46196.73	45932.80	
G 55.0	37168.49	36639.65	36721.85	37065.21	36818.13	36862.05	37114.49	36656.54	36790.72	37949.38	36790.72	36656.54	37114.49	
G 60.0	31993.55	31304.22	31407.52	31873.60	31586.17	31470.90	31865.90	32130.13	32153.78	32028.57	32153.78	32130.13	31865.90	
G 65.0	28028.69	28099.76	28070.50	27915.32	27736.97	27830.66	27963.93	27668.73	27793.65	28596.72	27793.65	27668.73	27963.93	
G 70.0	24643.08	24540.79	24494.26	24440.59	24297.06	24355.41	24646.50	24869.39	24827.56	24553.01	24827.56	24869.39	24646.50	
G 75.0	21419.15	21366.08	21428.38	21494.43	21345.19	21215.97	21136.63	20982.46	21270.22	22081.70	21270.22	20982.46	21136.63	
G 80.0	17479.42	17209.05	17134.81	17145.43	17125.02	17093.17	17229.98	17700.07	17760.47	17222.11	17760.47	17700.07	17229.98	
G 85.0	12617.58	13128.07	13285.59	13176.22	13150.06	12900.73	12509.85	12498.22	12911.78	13582.81	12911.78	12498.22	12509.85	
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	POLO SPOT			Código	POLO SPOT			Código	POLO SPOT																	
Nombre	Proyector POLO SPOT 7W			Nombre	Proyector POLO SPOT 7W			Número	1																	
Familia	- MARSET			Fecha	15-09-2015			Posición	Universal																	
Flujo Luminaria		436.28 lm		Potencia luminaria		7.00 W		Eficiencia		62.33 lm/W		Rendimiento		100.00%												
Flujo de Lámpara		436.29 lm		Valor Máximo		1884.75 cd/klm		Posición		C=0.00 G=0.00		CG		Bisimétrico												
														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	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22											
G 5.0	1088917.64	1090275.88	1093638.26	1089431.28	1089156.61	1097102.37	1089156.61	1089431.28	1093638.26	1090275.88	1088917.64	1090193.66	1090918.29	1090918.29	1090918.29											
G 10.0	895956.28	897304.16	904394.38	901482.36	901719.21	910981.92	901719.21	901482.36	904394.38	897304.16	895956.28	901379.15	898681.39	898681.39	898681.39											
G 15.0	677395.73	677441.49	682177.41	680365.79	681499.60	689593.82	681499.60	680365.79	682177.41	677441.49	677395.73	680799.31	674881.42	674881.42	674881.42											
G 20.0	501352.81	502923.04	507490.37	504260.61	504260.61	514902.43	504260.61	503474.17	507490.37	502923.04	501352.81	505204.09	504198.14	504198.14	504198.14											
G 25.0	375862.78	375124.97	374726.01	375944.55	377592.16	378920.55	377592.16	375944.55	374726.01	375124.97	375862.78	374938.62	372343.31	372343.31	372343.31											
G 30.0	276157.54	277574.10	277953.79	277638.51	278395.68	280577.59	278395.68	277638.51	277953.79	277574.10	276157.54	274987.36	275733.50	275733.50	275733.50											
G 35.0	186190.17	188619.22	189595.20	188922.26	189258.82	191400.97	189258.82	188922.26	189595.20	188619.22	186190.17	183469.25	182121.38	182121.38	182121.38											
G 40.0	108299.58	110603.63	110883.26	111229.20	112858.67	115665.14	112858.67	111229.20	110883.26	110603.63	108299.58	105913.83	107397.44	107397.44	107397.44											
G 45.0	65259.99	65508.92	65950.80	66539.92	66925.59	67133.56	66925.59	66539.92	65950.80	65508.92	65259.99	65204.02	63780.71	63780.71	63780.71											
G 50.0	45630.84	45989.34	46516.51	46063.80	46113.23	47221.40	46113.23	46063.80	46516.51	45989.34	45630.84	45932.80	46196.73	46196.73	46196.73											
G 55.0	36862.05	36818.13	37065.21	36721.85	36639.65	37168.49	36639.65	36721.85	37065.21	36818.13	36862.05	37114.49	36656.54	36656.54	36656.54											
G 60.0	31470.90	31586.17	31873.60	31407.52	31304.22	31993.55	31304.22	31407.52	31873.60	31586.17	31470.90	31865.90	32130.13	32130.13	32130.13											
G 65.0	27830.66	27736.97	27915.32	28070.50	28099.76	28028.69	28099.76	28070.50	27915.32	27736.97	27830.66	27963.93	27668.73	27668.73	27668.73											
G 70.0	24355.41	24297.06	24440.59	24494.26	24540.79	24643.08	24540.79	24494.26	24440.59	24297.06	24355.41	24646.50	24869.39	24869.39	24869.39											
G 75.0	21215.97	21345.19	21494.43	21428.38	21366.08	21419.15	21366.08	21428.38	21494.43	21345.19	21215.97	21136.63	20982.46	20982.46	20982.46											
G 80.0	17093.17	17125.02	17145.43	17134.81	17209.05	17479.42	17209.05	17134.81	17145.43	17125.02	17093.17	17229.98	17700.07	17700.07	17700.07											
G 85.0	12900.73	13150.06	13176.22	13285.59	13128.07	12617.58	13128.07	13285.59	13176.22	13150.06	12900.73	12509.85	12498.22	12498.22	12498.22											
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	POLO	SPOT	Código	POLO	SPOT	Código	POLO	SPOT		
Nombre	Proyector	POLO SPOT 7W	Nombre	Proyector	POLO SPOT 7W	Número	1			
Familia	- MARSET		Fecha	15-09-2015		Posición	Universal			
Flujo Luminaria	436.28 lm	Potencia luminaria	7.00 W	Eficiencia	62.33 lm/W	Rendimiento	100.00%			
Flujo de Lámpara	436.29 lm	Valor Máximo	1884.75 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico			
Luminance cd/m2 Tabla 3/3										
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22	1163078.22
G 5.0	1089470.79	1086804.04	1089470.79	1090918.29	1090193.66	1088917.64	1090275.88	1093638.26	1089431.28	1089156.61
G 10.0	897224.91	901858.29	897224.91	898681.39	901379.15	895956.28	897304.16	904394.38	901482.36	901719.21
G 15.0	671314.34	675353.86	671314.34	674881.42	680799.31	677395.73	677441.49	682177.41	680365.79	681499.60
G 20.0	503598.60	503405.49	503598.60	504198.14	505204.09	501352.81	502923.04	507490.37	503474.17	504260.61
G 25.0	376027.58	387243.98	376027.58	372343.31	374938.62	375862.78	375124.97	374726.01	375944.55	377592.16
G 30.0	276686.81	276916.36	276686.81	275733.50	274987.36	276157.54	277574.10	277953.79	277638.51	278395.68
G 35.0	184789.75	191109.27	184789.75	182121.38	183469.25	186190.17	188619.22	189595.20	188922.26	189258.82
G 40.0	107990.81	105644.69	107990.81	107397.44	105913.83	108299.58	110603.63	110883.26	111229.20	112858.67
G 45.0	64153.09	67096.14	64153.09	63780.71	65204.02	65259.99	65508.92	65950.80	66539.92	66925.59
G 50.0	46270.60	46284.86	46270.60	46196.73	45932.80	45630.84	45989.34	46516.51	46063.80	46113.23
G 55.0	36790.72	37949.38	36790.72	36656.54	37114.49	36862.05	36818.13	37065.21	36721.85	36639.65
G 60.0	32153.78	32028.57	32153.78	32130.13	31865.90	31470.90	31586.17	31873.60	31407.52	31304.22
G 65.0	27793.65	28596.72	27793.65	27668.73	27963.93	27830.66	27736.97	27915.32	28070.50	28099.76
G 70.0	24827.56	24553.01	24827.56	24869.39	24646.50	24355.41	24297.06	24440.59	24494.26	24540.79
G 75.0	21270.22	22081.70	21270.22	20982.46	21136.63	21215.97	21345.19	21494.43	21428.38	21366.08
G 80.0	17760.47	17222.11	17760.47	17700.07	17229.98	17093.17	17125.02	17145.43	17134.81	17209.05
G 85.0	12911.78	13582.81	12911.78	12498.22	12509.85	12900.73	13150.06	13176.22	13285.59	13128.07
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00