Luminaria
Código 33502100xx+P801
Nombre GAROTA-PF/02 2x20W CFL white
Familia - BOVER

Ensayo
Código 33502202xx+P801
Nombre GAROTA-S/02 2x20W CFL white
Fecha 14-12-2015

Lámpara
Código PL ELECT pro20W/827
Número 2
Posición Universal

Flujo Luminaria	631.71 lm	Potencia luminaria	40.00 W	Eficencia	15.79 lm/W	Rendimiento	26.32%
Flujo de Lámpara	2400.00 lm	Valor Máximo	100.50 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico

Luminaria Redonda	Diam. 720 mm	Altura	460 mm
Área Luminosa Redonda	Diam. 720 mm	Altura	460 mm
Área Luminosa Horizontal	0.407150 m2	Área Emisión sobre Pl. 180°	0.331200 m2
Área Emisión sobre Pl. 0°	0.331200 m2	Área Emisión sobre Pl. 270°	0.331200 m2
Área Emisión sobre Pl. 90°	0.331200 m2	Área de deslumbramiento a 76°	0.419861 m2

Sist. de Coorden.	CG	Tipo de Simetría	Bisimétrico
Fecha	14-12-2015	Máximo Ángulo Gamma	180
Distancia de Ensayo	6.44	Flujo de Ensayo	2488.00 lm

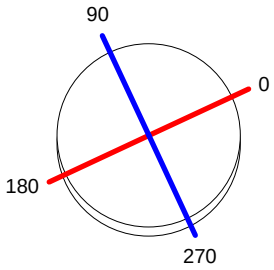
Operador	Asselum T2	Tensión de alimentación	
Temperatura	20.00 °C	Corriente de alimentación	
Humedad	52.00 %	Fotocélula	Prc
Notas			

Lámparas de la Luminaria

Familia	Código	Nombre	Flujo [lm]	Pot. [W]	Cant.
PHILIPS 2005 ILCOS FBT,G,C,FSQ	PL ELECT pro20W/827	PL electr pro 20W/827 E27	1200.00	20.00	2

C.I.E.	55 76 90 77 26	D DIN 5040	B41
F UTE	0.20 D + 0.06 T	B NBN	BZ 3 / 0.8 / BZ 4 / 2 / BZ 5

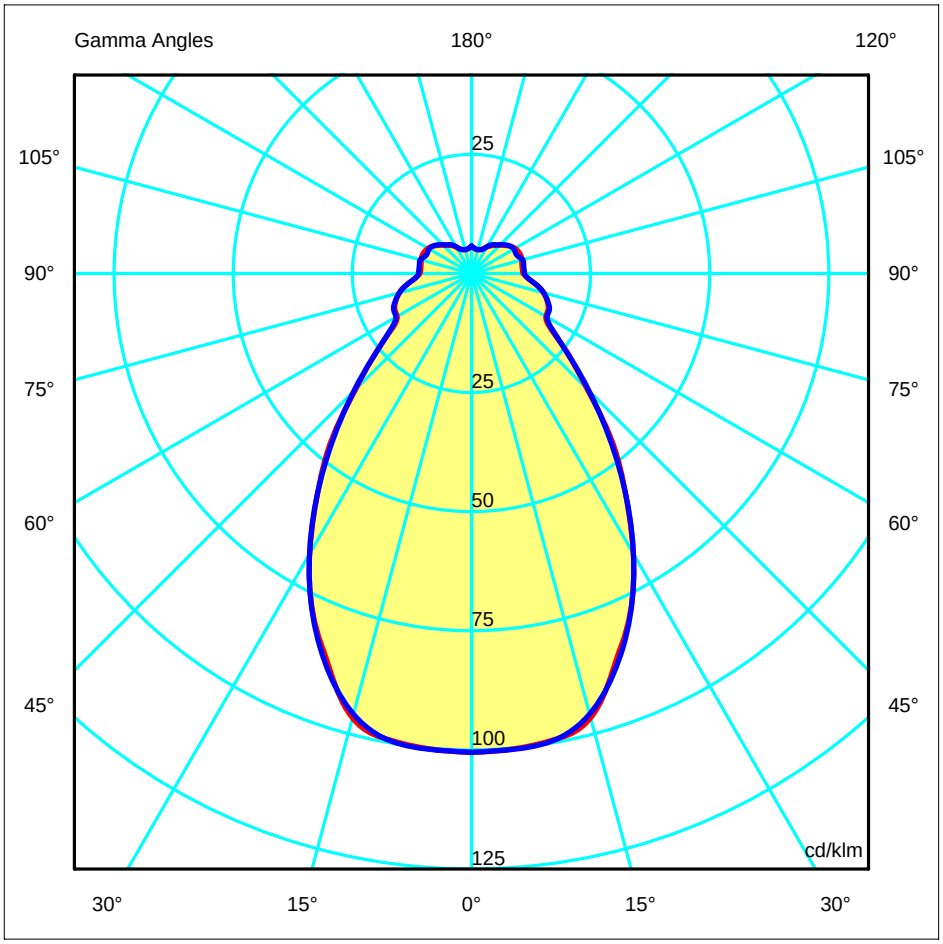
Diam=720mm



C Halfplanes

180.0 — 0.0

270.0 — 90.0



ULOR	6.04 %
DLOR	20.29 %
RN	22.93 %

Luminaria
Código 33502100xx+P801
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Nombre GAROTA-S/02 2x20W CFL white
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Lámpara
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Número 2
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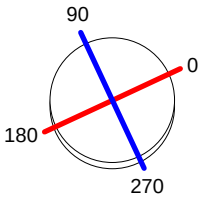
Tabla de Intensidad Luminosa cd/klm **Tabla 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	100.50	100.50	100.50	100.50	100.50	100.50	100.50
G 5.0	100.18	100.18	100.28	100.17	100.17	100.30	100.24
G 10.0	99.39	99.33	99.63	99.44	99.49	99.22	99.50
G 15.0	96.62	95.92	95.79	95.14	95.89	95.06	95.75
G 20.0	87.66	87.59	88.21	88.41	88.61	88.38	88.34
G 25.0	78.77	78.78	77.91	78.12	78.37	78.52	78.90
G 30.0	67.91	67.55	68.02	68.08	68.08	68.09	68.00
G 35.0	56.34	56.46	56.43	56.04	56.72	56.72	56.32
G 40.0	45.84	44.86	44.85	45.15	45.11	45.30	45.05
G 45.0	34.38	34.54	34.91	35.11	35.12	35.58	34.89
G 50.0	26.70	26.75	26.24	26.43	26.34	26.91	26.64
G 55.0	20.37	20.84	20.70	21.13	20.76	21.52	20.82
G 60.0	18.03	18.54	18.32	18.47	18.32	18.73	18.32
G 65.0	17.77	18.05	18.27	18.13	18.20	18.16	18.05
G 70.0	16.89	17.16	17.50	17.39	17.43	17.21	17.03
G 75.0	15.69	15.73	16.22	16.21	16.19	15.83	15.70
G 80.0	13.86	14.19	14.85	14.69	14.76	14.14	13.89
G 85.0	12.02	12.32	12.96	12.96	12.92	12.33	11.90
G 90.0	10.81	11.19	12.01	11.95	12.12	11.46	11.14
G 95.0	10.69	11.00	11.74	11.69	11.87	11.32	11.08
G100.0	10.73	10.97	11.70	11.74	11.81	11.37	11.09
G105.0	10.92	11.11	11.86	11.99	12.02	11.34	11.14
G110.0	11.04	11.22	11.96	12.05	12.07	11.01	10.44
G115.0	10.86	11.08	11.81	11.80	11.81	10.57	10.20
G120.0	10.60	10.74	11.38	11.30	11.36	10.24	10.28
G125.0	9.96	10.16	10.66	10.47	10.58	9.87	9.97
G130.0	9.22	9.31	9.52	9.31	9.42	9.16	9.38
G135.0	8.42	8.41	8.40	8.30	8.33	8.37	8.57
G140.0	7.69	7.67	7.40	7.29	7.29	7.71	7.89
G145.0	7.19	7.04	6.59	6.43	6.55	7.13	7.38
G150.0	6.40	6.37	5.95	5.72	5.82	6.30	6.51
G155.0	5.73	5.70	5.41	5.25	5.32	5.55	5.62
G160.0	5.34	5.34	5.14	5.03	5.08	5.23	5.33
G165.0	5.17	5.09	4.96	4.87	4.92	5.07	5.21
G170.0	5.15	5.04	4.90	4.85	4.89	5.02	5.20
G175.0	5.39	5.39	5.17	5.16	5.23	5.44	5.41
G180.0	5.68	5.71	5.50	5.47	5.53	5.81	5.78

Luminaria		Ensayo		Lámpara	
Código	33502100xx+P801	Código	33502202xx+P801	Código	PL ELECT pro20W/827
Nombre	GAROTA-PF/02 2x20W CFL white	Nombre	GAROTA-S/02 2x20W CFL white	Número	2
Familia	- BOVER	Fecha	14-12-2015	Posición	Universal

Flujo Luminaria	631.71 lm	Potencia luminaria	40.00 W	Eficencia	15.79 lm/W	Rendimiento	26.32%
Flujo de Lámpara	2400.00 lm	Valor Máximo	100.50 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico

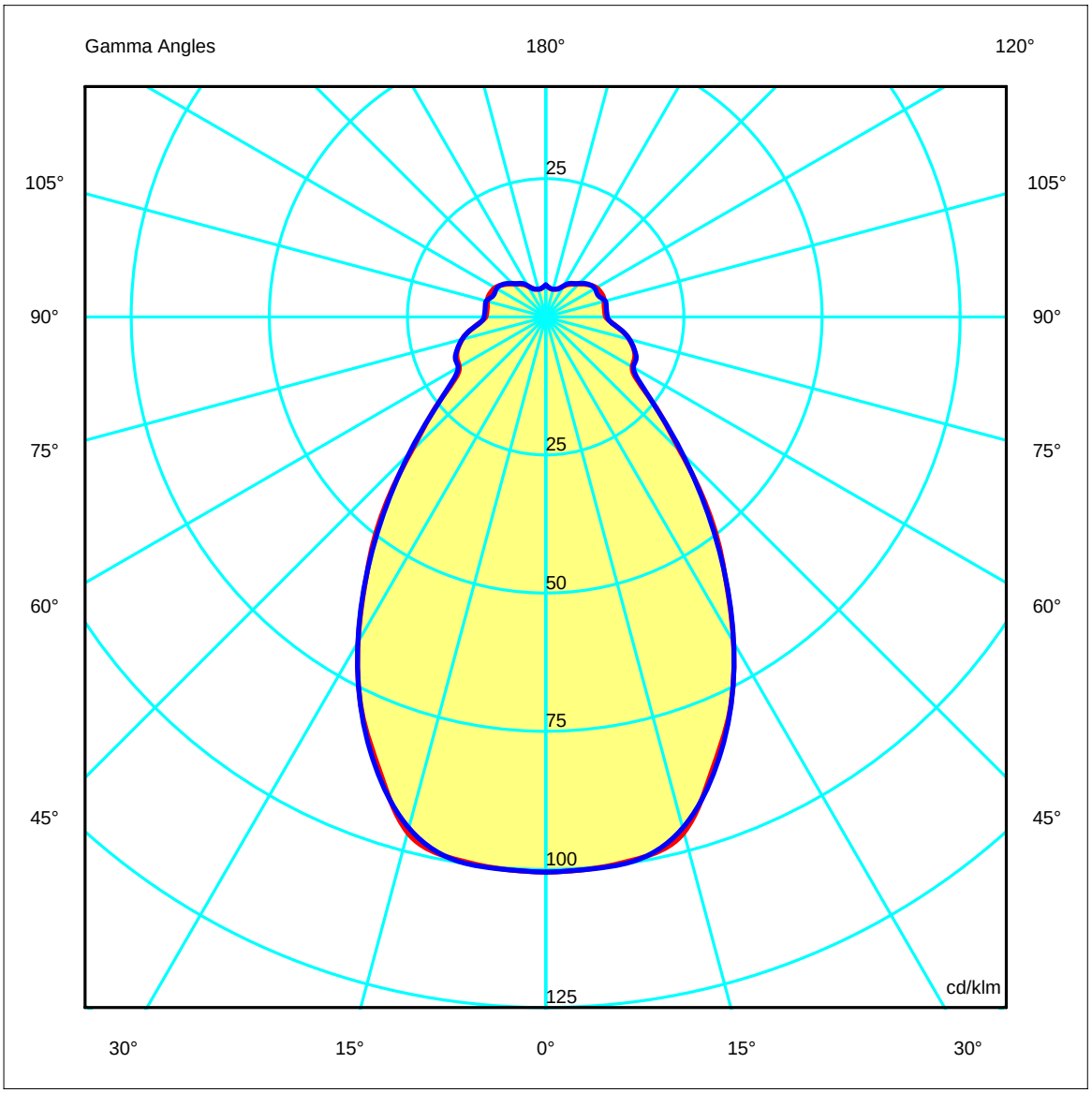
Diam=720mm



C Halfplanes

180.0 0.0

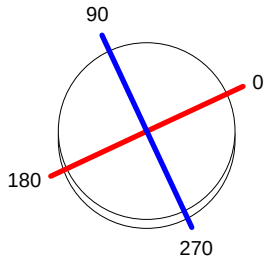
270.0 90.0



Luminaria		Ensayo		Lámpara	
Código	33502100xx+P801	Código	33502202xx+P801	Código	PL ELECT pro20W/827
Nombre	GAROTA-PF/02 2x20W CFL white	Nombre	GAROTA-S/02 2x20W CFL white	Número	2
Familia	- BOVER	Fecha	14-12-2015	Posición	Universal

Flujo Luminaria	631.71 lm	Potencia luminaria	40.00 W	Eficencia	15.79 lm/W	Rendimiento	26.32%
Flujo de Lámpara	2400.00 lm	Valor Máximo	100.50 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico

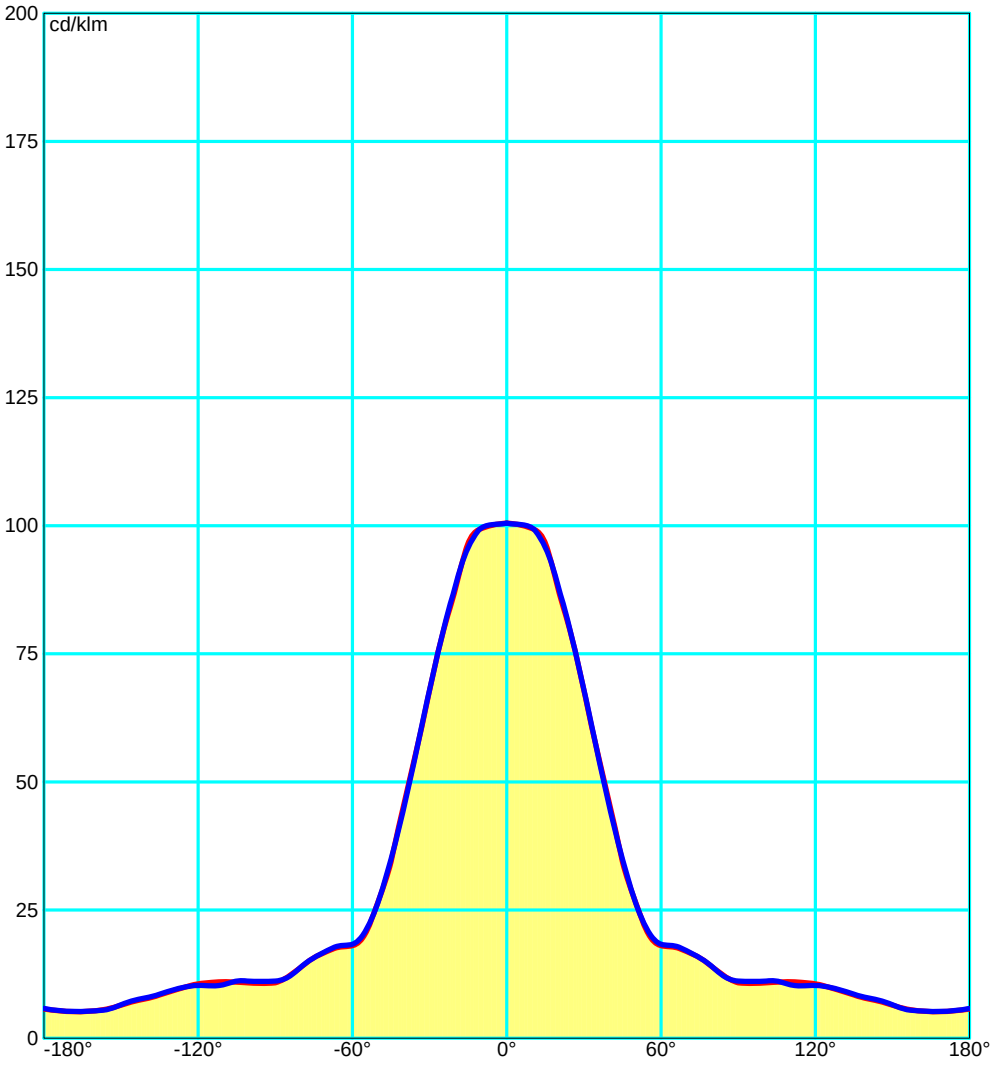
Diam=720mm



C Halfplanes

180.0 0.0

270.0 90.0



Luminaria		Ensayo		Lámpara	
Código	33502100xx+P801	Código	33502202xx+P801	Código	PL ELECT pro20W/827
Nombre	GAROTA-PF/02 2x20W CFL white	Nombre	GAROTA-S/02 2x20W CFL white	Número	2
Familia	- BOVER	Fecha	14-12-2015	Posición	Universal

Flujo Luminaria	631.71 lm	Potencia luminaria	40.00 W	Eficencia	15.79 lm/W	Rendimiento	26.32%
Flujo de Lámpara	2400.00 lm	Valor Máximo	100.50 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico

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	2.2	3.1	2.7	3.7	4.5	2.2	3.2	2.8	3.8	4.5
x=2H y=3H	3.8	4.8	4.5	5.3	6.1	3.9	4.8	4.5	5.4	6.1
x=2H y=4H	4.8	5.6	5.4	6.3	7.0	4.8	5.6	5.4	6.3	7.0
x=2H y=6H	5.7	6.5	6.3	7.1	7.9	5.7	6.5	6.4	7.1	7.9
x=2H y=8H	6.1	6.9	6.8	7.5	8.3	6.1	6.9	6.8	7.5	8.3
x=2H y=12H	6.5	7.2	7.2	7.9	8.7	6.5	7.3	7.2	7.9	8.7
x=4H y=2H	2.7	3.6	3.4	4.2	5.0	2.8	3.6	3.4	4.3	5.0
x=4H y=3H	4.8	5.5	5.5	6.2	7.0	4.8	5.5	5.5	6.2	7.0
x=4H y=4H	5.8	6.5	6.6	7.2	8.0	5.9	6.6	6.6	7.2	8.0
x=4H y=6H	6.9	7.5	7.7	8.2	9.1	6.9	7.5	7.7	8.3	9.1
x=4H y=8H	7.4	8.0	8.2	8.7	9.6	7.4	8.0	8.2	8.7	9.6
x=4H y=12H	7.9	8.4	8.7	9.1	10.0	7.9	8.4	8.7	9.1	10.0
x=8H y=4H	6.4	6.9	7.1	7.6	8.5	6.4	6.9	7.1	7.6	8.5
x=8H y=6H	7.7	8.1	8.5	8.9	9.8	7.7	8.1	8.5	8.9	9.8
x=8H y=8H	8.3	8.7	9.1	9.5	10.4	8.3	8.7	9.1	9.5	10.4
x=8H y=12H	8.9	9.3	9.7	10.1	11.0	8.9	9.3	9.7	10.1	11.0
x=12H y=4H	6.4	6.9	7.2	7.6	8.5	6.5	6.9	7.2	7.7	8.5
x=12H y=6H	7.8	8.2	8.6	9.0	10.0	7.8	8.2	8.6	9.0	10.0
x=12H y=8H	8.6	8.9	9.4	9.7	10.6	8.6	8.9	9.4	9.7	10.6

Luminaria		Ensayo		Lámpara	
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Nombre	GAROTA-PF/02 2x20W CFL white	Nombre	GAROTA-S/02 2x20W CFL white	Número	2
Familia	- BOVER	Fecha	14-12-2015	Posición	Universal

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Total Flux=2400.00 Luminaire Flux=631.71

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	0.38	0.45	0.51	0.56	0.61	0.68	0.73	0.76	0.81	0.84	0.91	0.95
RC	4	4	4	4	5	5	5	5	5	6	6	6

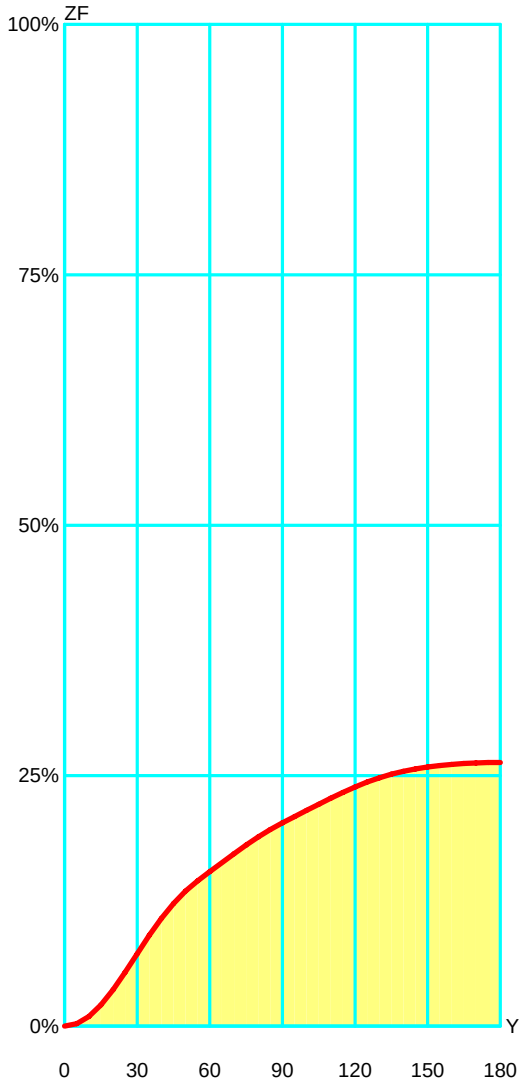
Zonal Flux per 1000 Lumen

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	10	36	72	108	135	154	172	189	203	215	228	239	248	254	259	261	263	263

CIE Flux Codes

55 76 90 77 26

C.I.E.	4/4/4/4/5/5/5/5/6/6/6	LOR	26.32116 %
D DIN 5040	B41	ULOR	6.03572 %
F UTE	0.20 D + 0.06 T	DLOR	20.28544 %
B NBN	BZ 3 / 0.8 / BZ 4 / 2 / BZ 5	UFF	22.93104 %
RN	22.93104 %	DFF	77.06896 %
BLF	1.0	FFR	29.75392 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	2.40	2.40	0.91 %	0.91 %
10°	7.14	9.54	2.71 %	3.62 %
15°	11.57	21.11	4.40 %	8.02 %
20°	15.15	36.27	5.76 %	13.78 %
25°	17.48	53.74	6.64 %	20.42 %
30°	18.53	72.27	7.04 %	27.46 %
35°	18.32	90.59	6.96 %	34.42 %
40°	16.95	107.53	6.44 %	40.85 %
45°	14.83	122.37	5.63 %	46.49 %
50°	12.44	134.80	4.72 %	51.21 %
55°	10.32	145.13	3.92 %	55.14 %
60°	9.10	154.22	3.46 %	58.59 %
65°	8.88	163.11	3.38 %	61.97 %
70°	8.96	172.07	3.40 %	65.37 %
75°	8.69	180.76	3.30 %	68.68 %
80°	8.13	188.89	3.09 %	71.77 %
85°	7.34	196.23	2.79 %	74.55 %
90°	6.62	202.85	2.52 %	77.07 %
95°	6.31	209.16	2.40 %	79.46 %
100°	6.20	215.37	2.36 %	81.82 %
105°	6.15	221.51	2.34 %	84.16 %
110°	6.03	227.54	2.29 %	86.45 %
115°	5.77	233.31	2.19 %	88.64 %
120°	5.39	238.70	2.05 %	90.69 %
125°	4.90	243.60	1.86 %	92.55 %
130°	4.27	247.86	1.62 %	94.17 %
135°	3.58	251.45	1.36 %	95.53 %
140°	2.95	254.39	1.12 %	96.65 %
145°	2.40	256.79	0.91 %	97.56 %
150°	1.91	258.69	0.72 %	98.28 %
155°	1.47	260.16	0.56 %	98.84 %
160°	1.12	261.28	0.43 %	99.27 %
165°	0.84	262.12	0.32 %	99.59 %
170°	0.59	262.71	0.23 %	99.81 %
175°	0.37	263.08	0.14 %	99.95 %
180°	0.13	263.21	0.05 %	100.00 %

Luminaria		**Ensayo**		**Lámpara**	
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Nombre	GAROTA-PF/02 2x20W CFL white	Nombre	GAROTA-S/02 2x20W CFL white	Número	2
Familia	- BOVER	Fecha	14-12-2015	Posición	Universal

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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	95	86	84	75	82	72	65	56	59	50	50	38	44	30	47	41	36	36	29	34	30	26	23
0.80	108	99	90	83	94	80	76	67	66	58	57	45	49	36	54	47	43	42	34	40	36	32	27
1.00	116	108	94	88	103	84	85	75	71	64	61	50	53	41	60	52	48	46	39	45	40	36	30
1.25	123	116	96	91	111	87	93	84	75	68	65	55	57	46	64	56	52	50	44	50	45	40	34
1.50	129	122	97	92	117	89	99	91	77	72	68	59	60	50	67	60	56	54	48	54	48	44	36
2.00	136	130	97	93	124	90	109	102	80	76	72	64	65	56	72	65	62	59	54	59	54	50	40
2.50	140	136	96	94	130	91	115	109	82	78	74	68	68	60	74	68	65	63	58	63	58	54	43
3.00	143	139	96	93	133	91	120	115	83	80	76	71	70	63	76	70	68	65	61	65	61	57	45
4.00	147	144	95	93	138	91	127	122	84	82	79	74	73	68	79	74	72	69	66	69	65	62	48
5.00	150	147	94	93	141	91	132	128	85	83	80	77	76	71	80	76	74	72	69	72	68	65	50
10.00	155	154	92	91	147	90	142	139	86	85	83	82	81	78	83	80	79	78	76	77	75	72	55
20.00	157	157	90	90	151	89	147	146	87	86	85	84	83	82	84	83	82	81	80	80	79	77	57

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	106	101	91	87	98	85	77	73	68	65	57	53	49	44	63	53	51	46	44	50	44	42	38
0.80	122	116	102	98	112	95	92	87	79	75	68	63	60	54	72	63	61	56	53	59	53	51	45
1.00	133	128	109	105	123	102	102	97	87	83	76	70	67	61	79	70	68	63	60	66	59	57	50
1.25	144	139	115	112	133	108	113	108	94	90	84	78	75	69	86	77	75	70	67	72	66	63	55
1.50	152	147	120	117	141	113	122	117	100	96	90	85	82	76	91	83	81	76	73	77	71	68	60
2.00	162	158	124	122	150	118	134	129	107	104	98	93	90	85	98	90	88	84	81	84	79	74	65
2.50	169	166	128	126	157	121	142	138	112	109	103	99	97	91	102	95	94	90	87	89	84	79	69
3.00	174	171	130	128	162	123	149	144	115	112	108	104	101	96	105	99	98	94	91	92	88	82	72
4.00	183	181	134	133	170	128	159	155	121	119	115	112	109	105	111	106	105	102	99	99	95	89	77
5.00	190	187	138	137	177	132	167	164	126	125	121	118	116	112	116	112	111	108	106	104	100	94	82
10.00	207	205	149	149	193	144	187	185	140	139	137	135	133	131	130	127	126	124	123	118	116	108	95
20.00	218	217	157	157	204	151	201	200	149	149	147	146	145	144	139	138	137	136	135	128	127	119	105

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	152	146	142	137	143	134	118	113	113	109	99	94	89	84	107	94	93	85	83	91	83	81	77
0.80	176	170	162	158	165	154	139	133	133	128	118	112	106	100	124	111	109	101	98	107	98	95	91
1.00	196	189	178	174	183	169	157	151	149	144	134	127	122	115	138	126	123	116	112	120	111	108	103
1.25	214	208	193	189	200	183	175	168	164	159	149	142	138	130	152	140	137	130	126	133	124	119	114
1.50	228	222	204	200	212	193	189	182	176	171	161	154	150	142	162	151	148	141	137	143	134	129	123
2.00	248	243	219	215	232	208	211	204	193	189	180	174	170	162	178	168	166	160	155	158	151	144	138
2.50	262	257	229	226	244	218	226	219	205	201	193	187	184	176	189	180	178	172	168	169	162	154	148
3.00	272	267	235	233	254	225	237	231	213	209	203	197	194	186	197	189	186	182	177	177	171	161	155
4.00	284	281	244	242	266	233	251	246	224	221	215	210	207	200	207	200	198	194	190	187	182	171	164
5.00	292	289	249	247	273	239	261	256	230	228	223	218	216	210	213	207	205	202	198	193	189	177	170
10.00	310	308	260	259	290	250	282	280	245	244	241	238	236	233	227	224	223	220	218	208	205	191	184
20.00	319	319	266	266	300	256	295	294	254	253	251	250	249	247	236	234	233	232	230	217	215	200	192

LM53 SHR C0-C180: 1.052 SHR C90-C270: 1.052 SHR Superficial: 1.089

Luminaria		Ensayo		Lámpara	
Código	33502100xx+P801	Código	33502202xx+P801	Código	PL ELECT pro20W/827
Nombre	GAROTA-PF/02 2x20W CFL white	Nombre	GAROTA-S/02 2x20W CFL white	Número	2
Familia	- BOVER	Fecha	14-12-2015	Posición	Universal

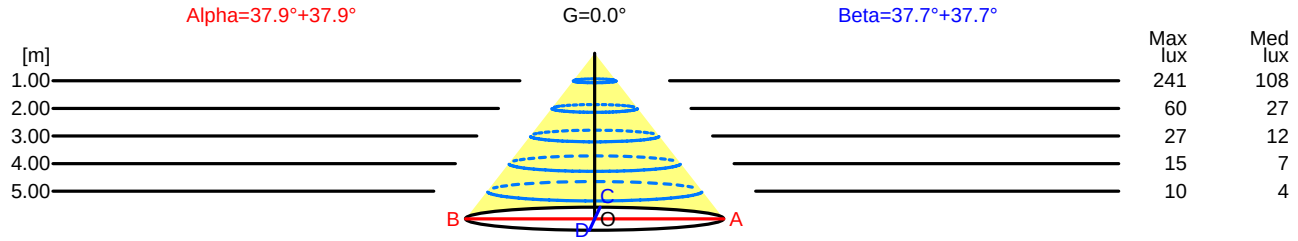
Flujo Luminaria	631.71 lm	Potencia luminaria	40.00 W	Eficencia	15.79 lm/W	Rendimiento	26.32%
Flujo de Lámpara	2400.00 lm	Valor Máximo	100.50 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico

Apertura a 50.00 % de Max Intensidad

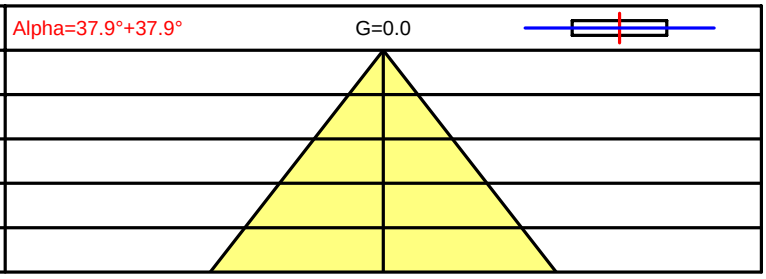
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	0.78	1.56	2.34	3.12	3.90	OC	0.77	1.54	2.31	3.09	3.86
OB	0.78	1.56	2.34	3.12	3.90	OD	0.77	1.54	2.31	3.09	3.86

Intensidades Luminosas [cd/klm]

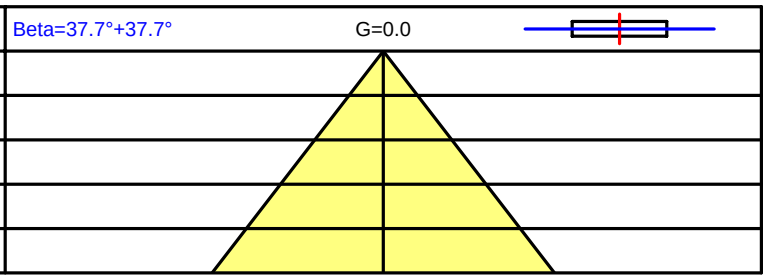
	0	5	15	25	35	45	55	65	75	85
OA	241.19	240.43	231.88	189.06	135.22	82.52	48.89	42.64	37.66	28.85
OB	241.19	240.43	231.88	189.06	135.22	82.52	48.89	42.64	37.66	28.85
OC	241.19	240.58	229.80	189.37	135.17	83.74	49.96	43.31	37.67	28.56
OD	241.19	240.58	229.80	189.37	135.17	83.74	49.96	43.31	37.67	28.56



H[m]	D[m]	Max lux	Med lux
1.00	1.56	241	108
2.00	3.12	60	27
3.00	4.68	27	12
4.00	6.24	15	7
5.00	7.80	10	4



H[m]	D[m]	Max lux	Med lux
1.00	1.54	241	108
2.00	3.09	60	27
3.00	4.63	27	12
4.00	6.17	15	7
5.00	7.72	10	4

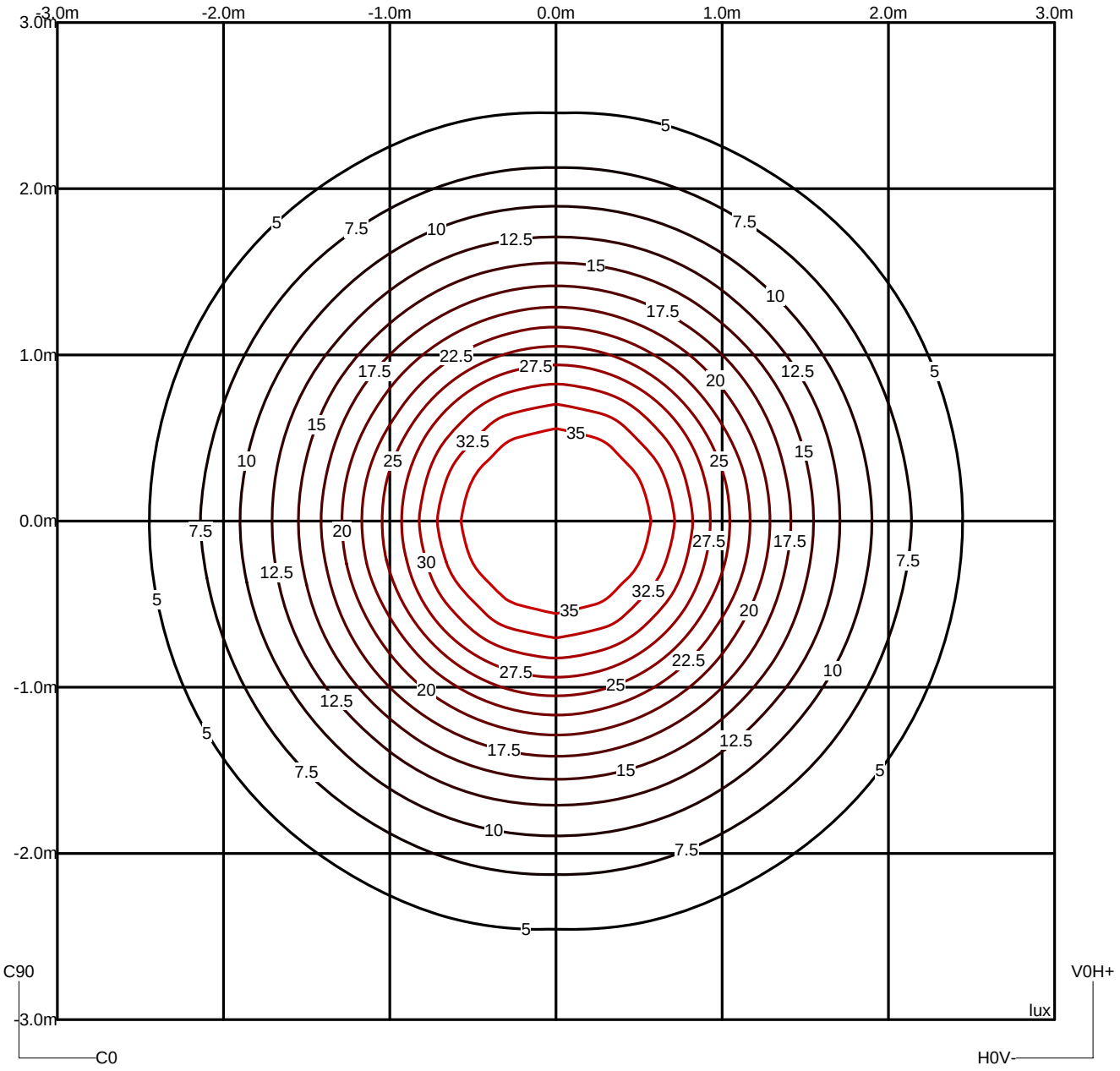


Luminaria		Ensayo		Lámpara	
Código	33502100xx+P801	Código	33502202xx+P801	Código	PL ELECT pro20W/827
Nombre	GAROTA-PF/02 2x20W CFL white	Nombre	GAROTA-S/02 2x20W CFL white	Número	2
Familia	- BOVER	Fecha	14-12-2015	Posición	Universal

Flujo Luminaria	631.71 lm	Potencia luminaria	40.00 W	Eficencia	15.79 lm/W	Rendimiento	26.32%
Flujo de Lámpara	2400.00 lm	Valor Máximo	100.50 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	33502100xx+P801	Código	33502202xx+P801	Código	PL ELECT pro20W/827
Nombre	GAROTA-PF/02 2x20W CFL white	Nombre	GAROTA-S/02 2x20W CFL white	Número	2
Familia	- BOVER	Fecha	14-12-2015	Posición	Universal

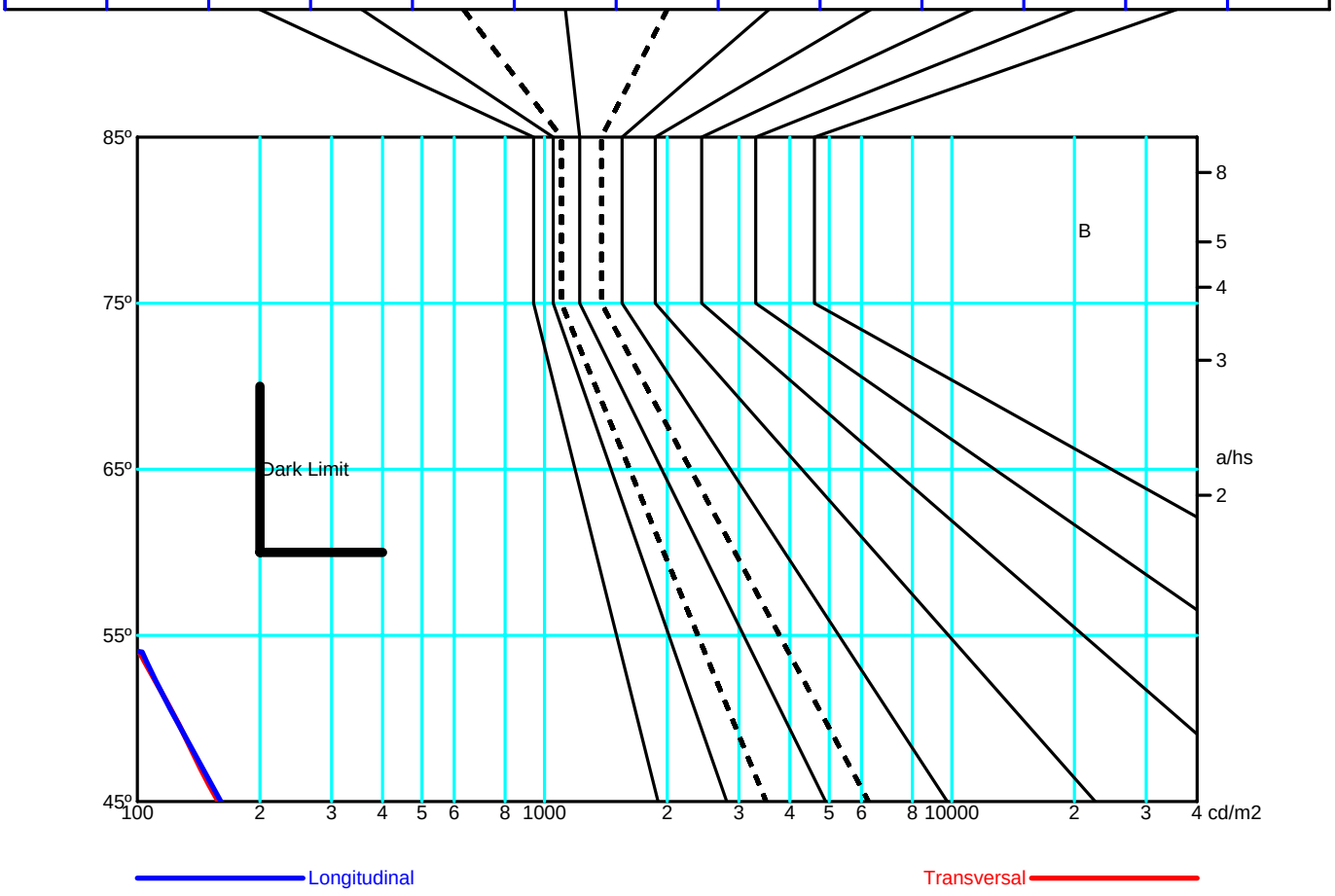
Flujo Luminaria	631.71 lm	Potencia luminaria	40.00 W	Eficencia	15.79 lm/W	Rendimiento	26.32%
Flujo de Lámpara	2400.00 lm	Valor Máximo	100.50 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico

Luminancia Media [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	158	124	97	88	90	90	89	84	79	---
90.0°	160	124	99	90	92	91	89	84	78	---

Flush mounted or transveral view

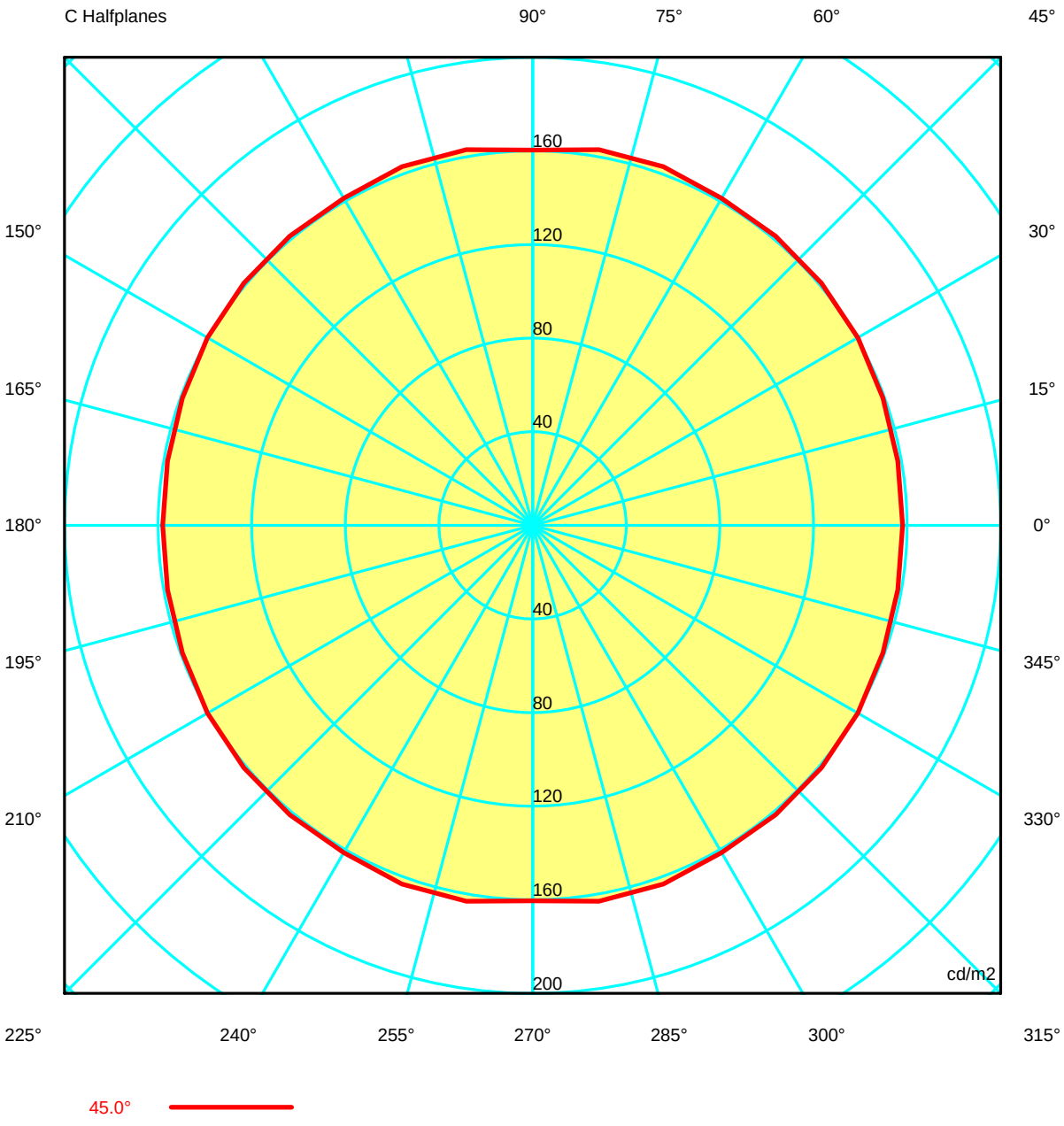
		Illumination(lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



Luminaria		Ensayo		Lámpara	
Código	33502100xx+P801	Código	33502202xx+P801	Código	PL ELECT pro20W/827
Nombre	GAROTA-PF/02 2x20W CFL white	Nombre	GAROTA-S/02 2x20W CFL white	Número	2
Familia	- BOVER	Fecha	14-12-2015	Posición	Universal

Flujo Luminaria	631.71 lm	Potencia luminaria	40.00 W	Eficencia	15.79 lm/W	Rendimiento	26.32%
Flujo de Lámpara	2400.00 lm	Valor Máximo	100.50 cd/klm	Posición	C=0.00 G=0.00	CG	Bisimétrico

Luminancia



Luminaria
Código 33502100xx+P801
Nombre GAROTA-PF/02 2x20W CFL white
Familia - BOVER

Ensayo
Código 33502202xx+P801
Nombre GAROTA-S/02 2x20W CFL white
Fecha 14-12-2015

Lámpara
Código PL ELECT pro20W/827
Número 2
Posición Universal

Flujo Luminaria	631.71 lm	Potencia luminaria	40.00 W	Eficencia	15.79 lm/W	Rendimiento	26.32%
Flujo de Lámpara	2400.00 lm	Valor Máximo	100.50 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	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38
G 5.0	553.40	553.31	553.61	553.95	553.58	553.20	553.34	553.86	554.05	553.74	554.05	553.86	553.34
G 10.0	520.28	519.80	520.53	521.55	520.88	520.59	520.82	519.78	519.55	520.87	519.55	519.78	520.82
G 15.0	484.10	481.37	480.48	479.94	477.13	477.82	480.45	477.67	476.42	479.76	476.42	477.67	480.45
G 20.0	424.27	423.63	424.79	426.95	427.71	428.29	428.86	428.20	427.71	427.58	427.71	428.20	428.86
G 25.0	371.45	372.01	370.13	367.35	367.66	368.94	369.55	369.92	370.72	372.06	370.72	369.92	369.55
G 30.0	314.53	312.98	313.39	315.04	315.20	315.30	315.33	315.40	315.27	314.94	315.27	315.40	315.33
G 35.0	258.31	258.64	259.02	258.70	257.15	257.68	260.02	260.46	259.52	258.21	259.52	260.46	260.02
G 40.0	209.65	206.25	204.68	205.13	206.16	206.46	206.31	206.94	207.02	206.05	207.02	206.94	206.31
G 45.0	158.06	158.42	159.26	160.45	161.09	161.42	161.43	163.12	163.08	160.39	163.08	163.12	161.43
G 50.0	124.33	124.85	123.75	122.18	122.76	122.91	122.66	124.52	125.39	124.06	125.39	124.52	122.66
G 55.0	96.85	98.74	98.85	98.43	100.07	99.86	98.69	101.25	102.06	98.97	102.06	101.25	98.69
G 60.0	88.26	90.35	90.51	89.64	90.20	90.13	89.66	91.12	91.48	89.63	91.48	91.12	89.66
G 65.0	90.29	91.20	92.24	92.85	92.38	92.16	92.51	92.46	92.12	91.71	92.12	92.46	92.51
G 70.0	89.98	90.83	92.15	93.21	92.87	92.68	92.88	92.17	91.30	90.75	91.30	92.17	92.88
G 75.0	88.56	88.71	89.69	91.56	91.49	91.42	91.36	90.04	88.90	88.58	88.90	90.04	91.36
G 80.0	83.81	84.82	87.33	89.79	89.15	89.01	89.28	86.90	84.67	84.00	84.67	86.90	89.28
G 85.0	78.95	79.92	82.41	85.14	85.13	85.04	84.86	82.44	79.85	78.16	79.85	82.44	84.86
G 90.0	78.30	79.62	83.23	87.05	86.73	86.98	87.79	84.86	81.87	80.73	81.87	84.86	87.79

Luminaria
Código 33502100xx+P801
Nombre GAROTA-PF/02 2x20W CFL white
Familia - BOVER

Ensayo
Código 33502202xx+P801
Nombre GAROTA-S/02 2x20W CFL white
Fecha 14-12-2015

Lámpara
Código PL ELECT pro20W/827
Número 2
Posición Universal

Flujo Luminaria	631.71 lm	Potencia luminaria	40.00 W	Eficencia	15.79 lm/W	Rendimiento	26.32%
Flujo de Lámpara	2400.00 lm	Valor Máximo	100.50 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	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38
G 5.0	553.20	553.58	553.95	553.61	553.31	553.40	553.31	553.61	553.95	553.58	553.20	553.34	553.86
G 10.0	520.59	520.88	521.55	520.53	519.80	520.28	519.80	520.53	521.55	520.88	520.59	520.82	519.78
G 15.0	477.82	477.13	479.94	480.48	481.37	484.10	481.37	480.48	479.94	477.13	477.82	480.45	477.67
G 20.0	428.29	427.71	426.95	424.79	423.63	424.27	423.63	424.79	426.95	427.71	428.29	428.86	428.20
G 25.0	368.94	367.66	367.35	370.13	372.01	371.45	372.01	370.13	367.35	367.66	368.94	369.55	369.92
G 30.0	315.30	315.20	315.04	313.39	312.98	314.53	312.98	313.39	315.04	315.20	315.30	315.33	315.40
G 35.0	257.68	257.15	258.70	259.02	258.64	258.31	258.64	259.02	258.70	257.15	257.68	260.02	260.46
G 40.0	206.46	206.16	205.13	204.68	206.25	209.65	206.25	204.68	205.13	206.16	206.46	206.31	206.94
G 45.0	161.42	161.09	160.45	159.26	158.42	158.06	158.42	159.26	160.45	161.09	161.42	161.43	163.12
G 50.0	122.91	122.76	122.18	123.75	124.85	124.33	124.85	123.75	122.18	122.76	122.91	122.66	124.52
G 55.0	99.86	100.07	98.43	98.85	98.74	96.85	98.74	98.85	98.43	100.07	99.86	98.69	101.25
G 60.0	90.13	90.20	89.64	90.51	90.35	88.26	90.35	90.51	89.64	90.20	90.13	89.66	91.12
G 65.0	92.16	92.38	92.85	92.24	91.20	90.29	91.20	92.24	92.85	92.38	92.16	92.51	92.46
G 70.0	92.68	92.87	93.21	92.15	90.83	89.98	90.83	92.15	93.21	92.87	92.68	92.88	92.17
G 75.0	91.42	91.49	91.56	89.69	88.71	88.56	88.71	89.69	91.56	91.49	91.42	91.36	90.04
G 80.0	89.01	89.15	89.79	87.33	84.82	83.81	84.82	87.33	89.79	89.15	89.01	89.28	86.90
G 85.0	85.04	85.13	85.14	82.41	79.92	78.95	79.92	82.41	85.14	85.13	85.04	84.86	82.44
G 90.0	86.98	86.73	87.05	83.23	79.62	78.30	79.62	83.23	87.05	86.73	86.98	87.79	84.86

Luminaria
Código 33502100xx+P801
Nombre GAROTA-PF/02 2x20W CFL white
Familia - BOVER

Ensayo
Código 33502202xx+P801
Nombre GAROTA-S/02 2x20W CFL white
Fecha 14-12-2015

Lámpara
Código PL ELECT pro20W/827
Número 2
Posición Universal

Flujo Luminaria	631.71 lm	Potencia luminaria	40.00 W	Eficencia	15.79 lm/W	Rendimiento	26.32%
Flujo de Lámpara	2400.00 lm	Valor Máximo	100.50 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	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38	592.38
G 5.0	554.05	553.74	554.05	553.86	553.34	553.20	553.58	553.95	553.61	553.31
G 10.0	519.55	520.87	519.55	519.78	520.82	520.59	520.88	521.55	520.53	519.80
G 15.0	476.42	479.76	476.42	477.67	480.45	477.82	477.13	479.94	480.48	481.37
G 20.0	427.71	427.58	427.71	428.20	428.86	428.29	427.71	426.95	424.79	423.63
G 25.0	370.72	372.06	370.72	369.92	369.55	368.94	367.66	367.35	370.13	372.01
G 30.0	315.27	314.94	315.27	315.40	315.33	315.30	315.20	315.04	313.39	312.98
G 35.0	259.52	258.21	259.52	260.46	260.02	257.68	257.15	258.70	259.02	258.64
G 40.0	207.02	206.05	207.02	206.94	206.31	206.46	206.16	205.13	204.68	206.25
G 45.0	163.08	160.39	163.08	163.12	161.43	161.42	161.09	160.45	159.26	158.42
G 50.0	125.39	124.06	125.39	124.52	122.66	122.91	122.76	122.18	123.75	124.85
G 55.0	102.06	98.97	102.06	101.25	98.69	99.86	100.07	98.43	98.85	98.74
G 60.0	91.48	89.63	91.48	91.12	89.66	90.13	90.20	89.64	90.51	90.35
G 65.0	92.12	91.71	92.12	92.46	92.51	92.16	92.38	92.85	92.24	91.20
G 70.0	91.30	90.75	91.30	92.17	92.88	92.68	92.87	93.21	92.15	90.83
G 75.0	88.90	88.58	88.90	90.04	91.36	91.42	91.49	91.56	89.69	88.71
G 80.0	84.67	84.00	84.67	86.90	89.28	89.01	89.15	89.79	87.33	84.82
G 85.0	79.85	78.16	79.85	82.44	84.86	85.04	85.13	85.14	82.41	79.92
G 90.0	81.87	80.73	81.87	84.86	87.79	86.98	86.73	87.05	83.23	79.62