bover
barcelona lights

Luminaire
Code 33201201xx
Name NON-LA S 10.5W
Measurem.
Code 33204013xx
Name Aplique leds NON-LA-A 10.5W

Luminaire Flux	1050.95 lm	Luminaire Power	11.00 W	Efficacy	95.54 lm/W	Efficiency	100.00%
Lamps Flux	1050.96 lm	Maximum value	341.83 cd/klm	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

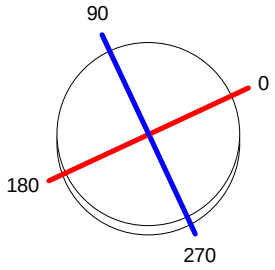
Round Luminaire	Diam. 220 mm	Height	50 mm
Round Luminous Area	Diam. 210 mm	Height	0 mm
Horizontal Luminous Area	0.034636 m2	Emitting area on Plane 180°	0.000000 m2
Emitting area on Plane 0°	0.000000 m2	Emitting area on Plane 270°	0.000000 m2
Emitting area on Plane 90°	0.000000 m2	Glare area at 76°	0.008379 m2
Coordinate system	CG	Symmetry Type	Sym. on planes 270-90
Date	04-05-2016	Maximum Gamma Angle	180
Measurement Distance	6.44	Measurement Flux	1050.96 lm
Operator	Asselum T2	Source voltage	230.00 V
Temperature	24.00 °C	Source current	
Humidity	46.00 %	Photocell	Prc
Notes			

Luminaire Lamps

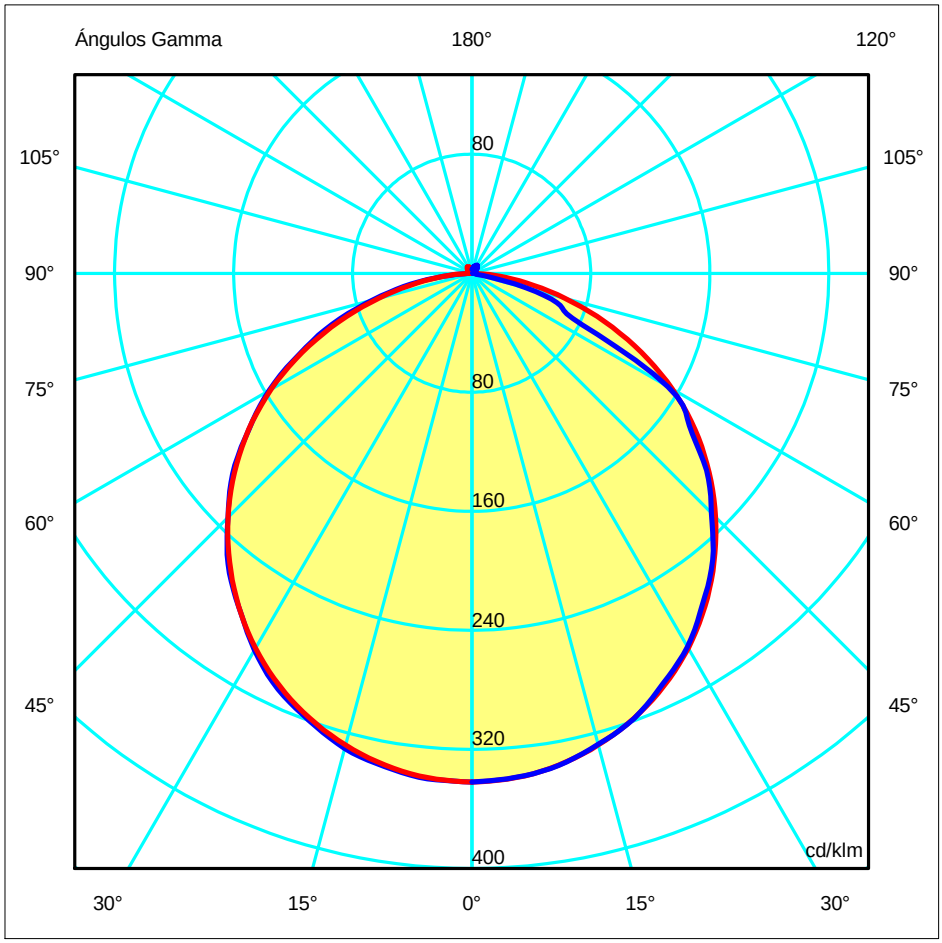
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
- BOVER	33204013xx	Lámpara led 10.5W	1050.96	11.00	1

C.I.E.	47 79 96 98 100	D DIN 5040	A31
F UTE	0.98 E + 0.02 T	B NBN	BZ 5 / 1.25 / BZ 4

Diam=220mm







ULOR	1.72 %
DLOR	98.28 %
RN	1.72 %

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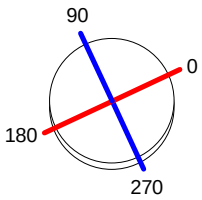
Luminous Intensity Table cd/klm **Table 1/1**

	C 270.00	C 285.00	C 300.00	C 315.00	C 330.00	C 345.00	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	341.83	341.83	341.83	341.83	341.83	341.83	341.83	341.83	341.83	341.83	341.83	341.83	341.83
G 5.0	341.01	340.92	340.67	340.38	340.14	340.07	340.21	339.88	339.75	339.76	339.85	339.94	339.98
G 10.0	336.66	336.44	335.98	335.65	335.86	335.30	335.56	335.25	335.62	335.33	335.43	335.64	335.74
G 15.0	330.46	329.82	328.59	327.90	327.51	327.77	328.17	328.19	328.25	328.50	328.05	327.84	327.74
G 20.0	319.73	318.95	317.76	317.21	317.06	317.81	318.26	318.72	318.96	318.86	318.39	318.26	318.35
G 25.0	308.30	306.43	304.00	303.47	303.91	304.80	305.82	306.22	306.55	306.63	306.24	305.04	304.16
G 30.0	292.17	289.93	288.09	287.61	288.98	289.42	290.79	291.32	291.93	292.24	291.87	290.41	289.79
G 35.0	273.31	271.27	268.81	270.16	270.81	271.68	273.16	273.97	274.63	275.00	274.88	273.03	270.71
G 40.0	255.02	250.28	249.32	249.60	250.52	251.84	253.27	254.35	255.21	255.46	255.57	253.86	251.76
G 45.0	231.68	227.65	226.27	227.13	228.49	229.91	231.54	232.68	233.63	234.28	233.74	232.51	227.77
G 50.0	209.98	202.70	202.12	202.75	204.10	206.07	208.22	209.46	210.49	210.99	210.25	209.52	205.84
G 55.0	183.03	176.63	176.70	176.49	178.14	180.46	183.06	184.58	186.16	186.65	185.83	184.94	178.34
G 60.0	157.48	149.43	148.83	149.23	150.60	152.79	155.61	157.55	159.56	159.70	158.92	158.34	152.18
G 65.0	127.67	119.79	119.47	120.02	121.01	122.90	125.83	128.13	130.35	131.05	129.89	128.85	82.08
G 70.0	99.91	90.63	88.51	88.73	90.00	92.08	95.05	97.40	99.40	100.66	99.66	97.06	63.17
G 75.0	68.56	59.92	57.90	57.85	60.01	62.29	64.98	67.02	68.50	69.47	68.71	65.27	37.68
G 80.0	41.40	30.43	29.12	30.87	33.67	35.59	37.50	38.84	39.69	40.14	39.52	37.58	3.42
G 85.0	14.62	7.76	9.52	11.53	13.35	14.37	15.24	15.74	16.01	15.96	15.30	13.28	1.63
G 90.0	1.79	1.45	1.22	1.16	1.12	1.08	1.04	0.98	1.09	1.19	0.89	0.87	0.81
G 95.0	1.14	1.43	0.90	0.66	0.65	0.64	0.63	0.59	0.58	0.55	0.50	0.92	0.85
G100.0	1.22	1.48	1.56	1.19	0.73	0.73	0.73	0.70	0.66	0.86	1.17	1.07	0.89
G105.0	1.44	1.61	1.66	1.69	2.27	1.87	1.65	1.81	2.16	1.51	1.43	1.32	1.14
G110.0	1.61	1.77	1.80	1.96	2.02	2.02	2.01	1.94	1.89	1.83	1.64	1.63	1.34
G115.0	1.87	1.99	2.14	2.19	2.35	2.38	2.38	2.31	2.24	2.19	2.02	1.94	1.89
G120.0	2.17	2.26	2.49	2.48	2.49	2.75	2.74	2.71	2.42	2.38	2.53	2.35	2.52
G125.0	2.51	2.54	2.78	2.97	2.90	2.88	2.92	2.91	2.99	3.13	3.11	2.96	3.24
G130.0	2.80	2.82	3.05	3.33	3.46	3.49	3.59	3.71	3.89	3.96	3.85	3.79	4.04
G135.0	3.04	3.07	3.25	3.58	3.90	4.15	4.39	4.62	4.80	4.78	4.67	4.72	5.03
G140.0	3.24	3.27	3.43	3.76	4.20	4.62	4.98	5.33	5.54	5.50	5.45	5.55	5.74
G145.0	3.45	3.44	3.58	3.86	4.35	4.84	5.28	5.70	5.98	5.96	6.08	6.15	6.42
G150.0	3.50	3.51	3.59	3.86	4.31	4.79	5.25	5.66	5.95	5.98	6.12	6.26	6.37
G155.0	3.45	3.48	3.51	3.71	4.07	4.47	4.87	5.22	5.45	5.54	5.68	5.83	5.74
G160.0	3.30	3.32	3.34	3.44	3.68	3.96	4.26	4.51	4.68	4.80	4.97	5.09	5.04
G165.0	3.09	3.12	3.14	3.18	3.28	3.42	3.58	3.76	3.92	4.04	4.18	4.23	4.15
G170.0	2.84	2.88	2.91	2.94	2.97	3.05	3.11	3.22	3.28	3.39	3.43	3.42	3.33
G175.0	2.60	2.64	2.68	2.71	2.74	2.76	2.76	2.82	2.84	2.85	2.82	2.77	2.70
G180.0	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48

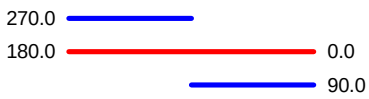
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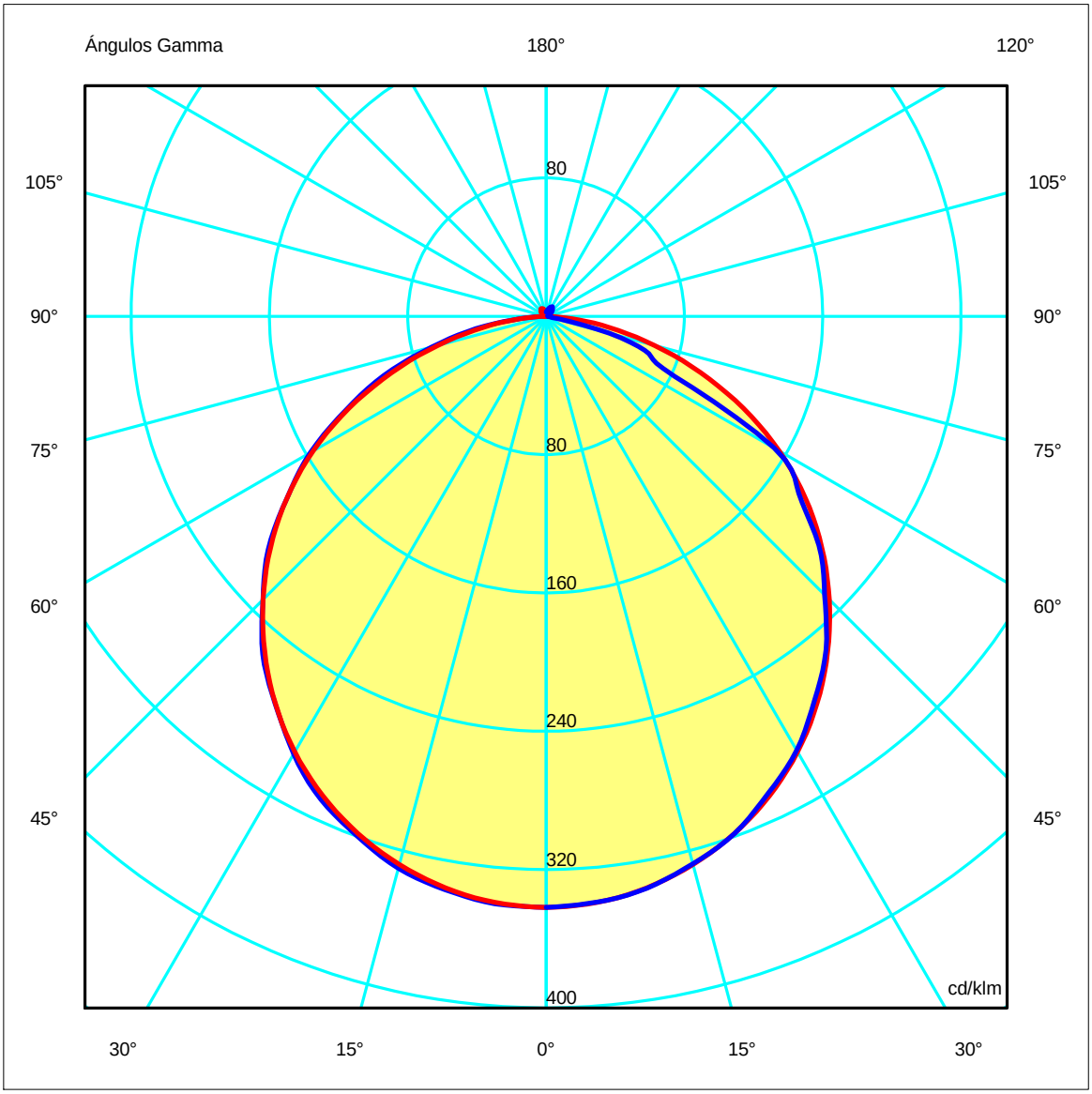
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Diam=220mm



Semiplanos C

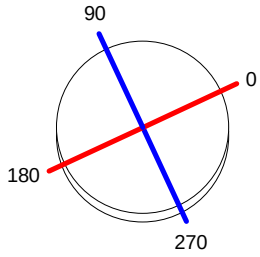


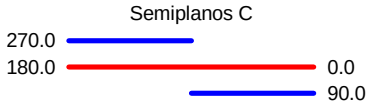


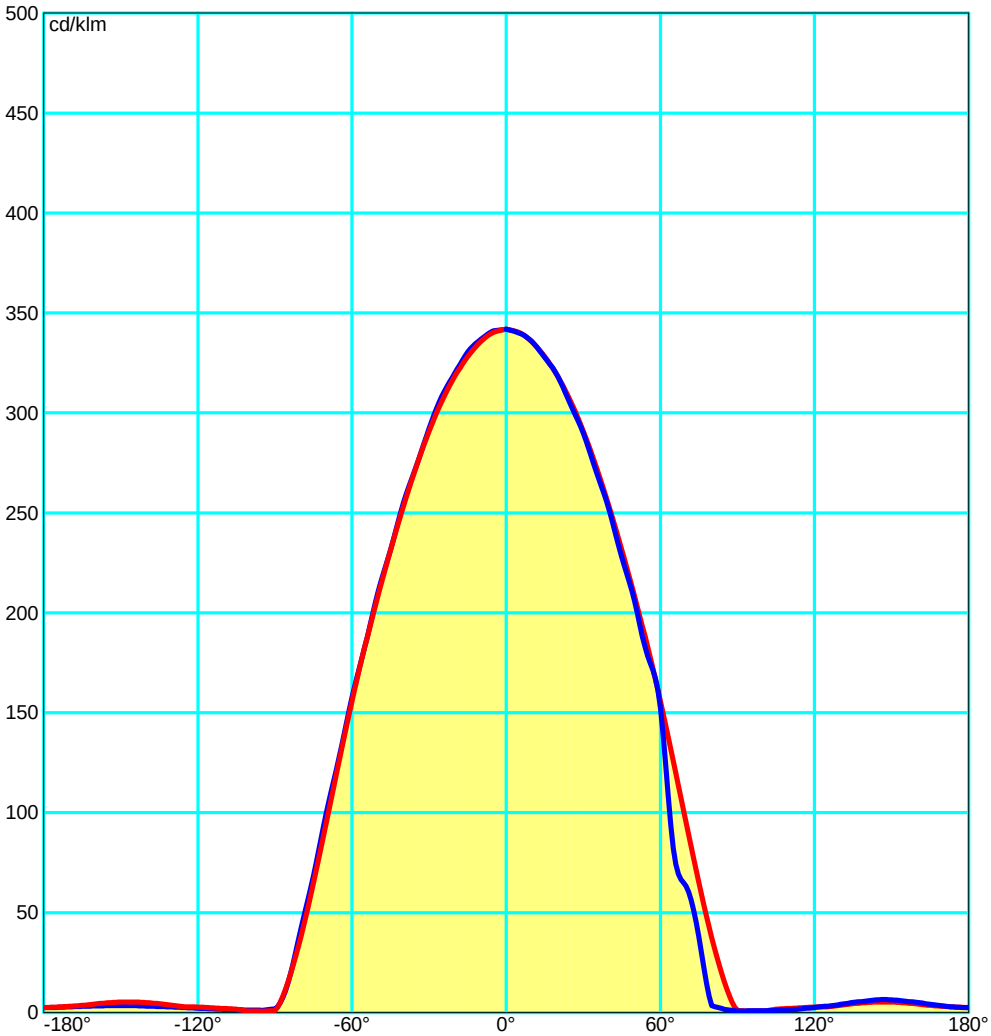
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Flujo Total=1050.96 Flujo Luminaria=1050.95

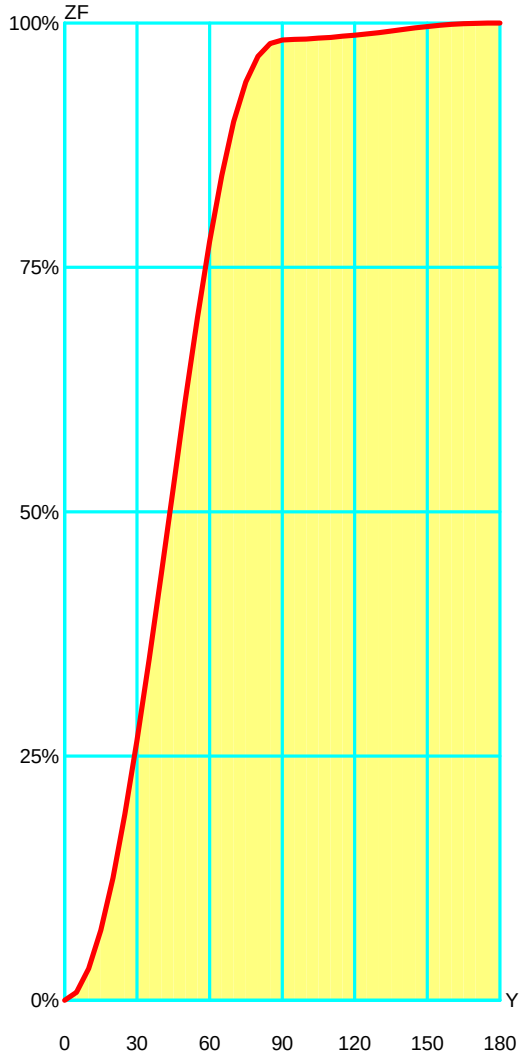
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.30	0.39	0.46	0.54	0.59	0.68	0.74	0.78	0.83	0.86	0.93	0.96
RC	5	5	5	5	5	5	5	5	5	5	4	4

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)	32	125	266	436	614	777	899	966	983	984	985	988	990	993	997	999	1000	1000

Códigos de Flujo C.I.E.
47 79 96 98 100

C.I.E.	5/5/5/5/5/5/5/5/5/4/4	LOR	99.99933 %
D DIN 5040	A31	ULOR	1.71897 %
F UTE	0.98 E + 0.02 T	DLOR	98.28036 %
B NBN	BZ 5 / 1.25 / BZ 4	UFF	1.71899 %
RN	1.71899 %	DFF	98.28101 %
BLF	1.0	FFR	1.74905 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	8.15	8.15	0.82 %	0.82 %
10°	24.18	32.33	2.42 %	3.23 %
15°	39.39	71.72	3.94 %	7.17 %
20°	53.29	125.01	5.33 %	12.50 %
25°	65.42	190.42	6.54 %	19.04 %
30°	75.39	265.81	7.54 %	26.58 %
35°	82.87	348.68	8.29 %	34.87 %
40°	87.62	436.30	8.76 %	43.63 %
45°	89.50	525.80	8.95 %	52.58 %
50°	88.44	614.24	8.84 %	61.42 %
55°	84.53	698.76	8.45 %	69.88 %
60°	77.74	776.50	7.77 %	77.65 %
65°	67.61	844.12	6.76 %	84.41 %
70°	54.92	899.04	5.49 %	89.90 %
75°	40.86	939.90	4.09 %	93.99 %
80°	26.10	965.99	2.61 %	96.60 %
85°	12.94	978.93	1.29 %	97.89 %
90°	3.87	982.80	0.39 %	98.28 %
95°	0.51	983.32	0.05 %	98.33 %
100°	0.48	983.79	0.05 %	98.38 %
105°	0.72	984.51	0.07 %	98.45 %
110°	0.92	985.43	0.09 %	98.54 %
115°	1.01	986.44	0.10 %	98.64 %
120°	1.13	987.58	0.11 %	98.76 %
125°	1.25	988.83	0.13 %	98.88 %
130°	1.40	990.23	0.14 %	99.02 %
135°	1.56	991.78	0.16 %	99.18 %
140°	1.64	993.42	0.16 %	99.34 %
145°	1.62	995.04	0.16 %	99.50 %
150°	1.48	996.51	0.15 %	99.65 %
155°	1.23	997.74	0.12 %	99.77 %
160°	0.93	998.68	0.09 %	99.87 %
165°	0.64	999.32	0.06 %	99.93 %
170°	0.40	999.72	0.04 %	99.97 %
175°	0.21	999.93	0.02 %	99.99 %
180°	0.06	999.99	0.01 %	100.00 %

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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	20.3	21.6	20.6	21.9	22.0	20.1	21.4	20.5	21.7	22.0
x=2H y=3H	21.9	23.1	22.3	23.4	23.5	21.8	22.9	22.1	23.2	23.5
x=2H y=4H	22.6	23.7	22.9	24.0	24.1	22.4	23.5	22.8	23.8	24.1
x=2H y=6H	23.0	24.0	23.4	24.3	24.5	22.8	23.9	23.2	24.2	24.5
x=2H y=8H	23.1	24.1	23.5	24.4	24.6	23.0	23.9	23.3	24.3	24.6
x=2H y=12H	23.2	24.1	23.6	24.5	24.7	23.0	24.0	23.4	24.3	24.7
x=4H y=2H	21.1	22.2	21.5	22.5	22.6	20.9	22.0	21.3	22.3	22.6
x=4H y=3H	22.9	23.8	23.3	24.2	24.3	22.6	23.6	23.0	23.9	24.3
x=4H y=4H	23.6	24.4	24.0	24.8	25.0	23.3	24.2	23.8	24.6	25.0
x=4H y=6H	24.1	24.9	24.6	25.3	25.4	23.8	24.6	24.3	25.0	25.4
x=4H y=8H	24.3	25.0	24.8	25.4	25.5	24.0	24.7	24.5	25.1	25.5
x=4H y=12H	24.4	25.0	24.9	25.5	25.6	24.1	24.7	24.5	25.1	25.6
x=8H y=4H	23.9	24.6	24.4	25.0	25.2	23.6	24.3	24.1	24.7	25.2
x=8H y=6H	24.6	25.1	25.0	25.6	25.7	24.2	24.7	24.7	25.2	25.7
x=8H y=8H	24.8	25.3	25.3	25.8	25.8	24.4	24.8	24.9	25.3	25.8
x=8H y=12H	25.0	25.4	25.5	25.9	25.9	24.5	24.9	25.0	25.4	25.9
x=12H y=4H	23.9	24.5	24.4	25.0	25.1	23.6	24.2	24.1	24.7	25.1
x=12H y=6H	24.6	25.1	25.1	25.6	25.7	24.2	24.7	24.7	25.2	25.7
x=12H y=8H	24.9	25.3	25.4	25.8	25.9	24.4	24.8	24.9	25.3	25.9

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Utilizations CIE

Mounting Direct Normalization Normalised Suspension Ratio 1/3 Standard CIE Settings

Ceiling

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	229	206	184	166	196	158	122	104	98	84	58	43	28	19	78	46	41	23	18	39	19	17	6
0.80	264	242	196	180	230	172	152	133	112	98	68	54	36	26	92	57	51	30	25	49	26	23	8
1.00	288	267	198	185	254	177	175	156	119	107	76	62	42	32	100	65	59	36	31	56	32	28	9
1.25	308	290	196	186	276	178	199	181	124	114	83	70	49	40	107	72	67	43	38	64	39	35	10
1.50	322	306	192	183	291	177	218	201	127	118	88	76	56	46	111	78	73	50	44	69	45	41	10
2.00	340	327	181	175	312	170	247	231	129	121	95	85	66	57	115	85	81	60	54	78	55	51	11
2.50	352	340	173	169	325	163	268	254	129	123	99	91	73	65	117	91	87	68	63	84	63	58	12
3.00	360	350	166	163	334	158	284	271	128	123	102	95	79	72	118	95	91	74	69	88	69	65	13
4.00	371	363	158	155	348	152	306	295	128	124	107	101	88	81	119	100	98	83	79	94	78	74	14
5.00	378	372	153	151	356	147	321	312	128	125	110	105	94	88	120	104	102	89	85	98	85	81	14
10.00	394	390	140	139	375	137	355	349	127	125	117	114	107	104	121	112	111	103	101	108	100	96	16
20.00	402	400	133	132	384	130	374	371	125	125	120	119	115	113	121	117	116	112	111	113	109	106	16

Wall

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	466	454	408	399	447	395	352	344	318	312	267	262	230	227	309	262	260	228	226	259	226	225	205
0.80	525	511	446	438	502	431	408	398	360	353	309	302	270	266	348	302	300	267	265	298	265	264	240
1.00	563	550	466	459	538	451	449	438	386	379	337	330	299	294	373	330	327	295	293	324	293	290	264
1.25	596	584	481	474	569	466	486	474	407	401	362	355	325	320	394	353	351	321	318	347	317	314	285
1.50	620	609	490	484	592	476	514	502	422	417	380	373	345	340	408	371	368	340	337	364	336	332	300
2.00	643	633	490	485	613	477	546	535	433	428	397	391	366	360	418	387	384	360	357	379	354	350	313
2.50	656	648	487	483	626	475	567	556	438	434	406	401	379	373	423	396	393	372	369	387	365	360	321
3.00	663	656	482	479	632	471	580	570	439	435	411	406	387	381	424	400	398	379	375	390	371	365	324
4.00	677	671	480	478	646	470	603	594	444	441	422	417	401	396	430	410	408	392	389	399	384	376	332
5.00	688	682	480	478	655	470	619	611	449	447	430	426	412	407	434	418	416	402	399	407	393	385	339
10.00	707	704	477	476	674	468	653	648	457	455	446	443	435	432	442	432	431	423	421	420	412	402	352
20.00	706	704	463	463	673	455	661	658	449	448	443	442	437	435	435	429	429	424	423	416	412	400	348

Working Pl.

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	588	575	549	538	566	532	451	442	434	428	368	362	320	317	423	362	360	318	316	359	316	315	298
0.80	697	681	642	631	669	622	553	542	528	520	460	453	409	404	513	452	449	405	403	446	403	401	383
1.00	781	766	712	702	750	692	638	625	603	595	537	528	485	480	585	527	524	480	477	519	477	474	455
1.25	861	846	776	767	826	755	720	706	674	666	611	602	561	554	654	599	596	555	551	590	549	545	528
1.50	921	906	822	815	882	802	783	769	728	720	668	659	620	612	706	655	651	612	608	644	606	600	583
2.00	1000	994	887	881	965	867	879	865	806	799	755	746	712	704	783	739	736	702	697	726	693	686	669
2.50	1000	1000	927	922	1000	908	944	929	856	850	812	803	773	765	832	794	791	761	756	780	751	741	726
3.00	1000	1000	955	950	1000	936	990	977	891	886	852	844	818	809	867	834	830	804	799	818	792	781	767
4.00	1000	1000	987	984	1000	970	1000	1000	934	930	902	895	874	866	909	882	879	858	853	864	843	830	817
5.00	1000	1000	1000	1000	1000	990	1000	1000	960	956	933	927	909	901	935	912	909	891	887	893	875	861	847
10.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	999	995	985	980	988	975	974	963	961	953	943	925	913
20.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	986	981	960	948

LM53 SHR C0-C180: 1.262 SHR C90-C270: 1.250 SHR Square: 1.396

bover
barcelona lights

Luminaire
Code 33201201xx
Name NON-LA S 10.5W
Measurem.
Code 33204013xx
Name Aplique leds NON-LA-A 10.5W

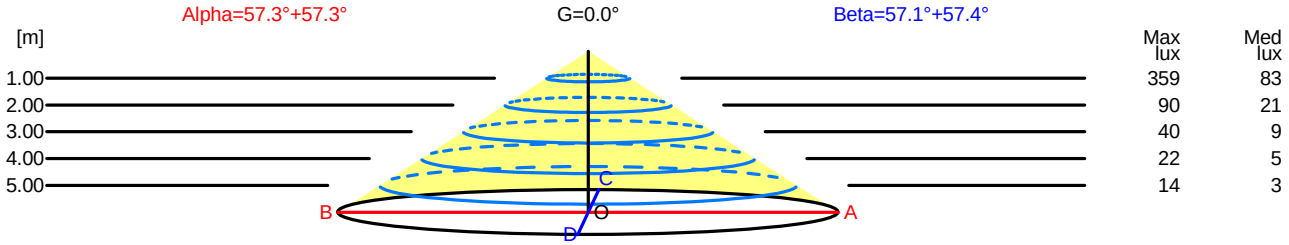
Luminaire Flux	1050.95 lm	Luminaire Power	11.00 W	Efficacy	95.54 lm/W	Efficiency	100.00%
Lamps Flux	1050.96 lm	Maximum value	341.83 cd/klm	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

Width at 50.00 % of Max Intensity

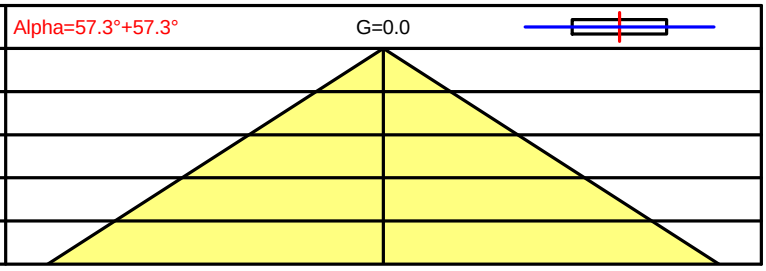
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	1.56	3.11	4.67	6.22	7.78	OC	1.55	3.10	4.64	6.19	7.74
OB	1.56	3.11	4.67	6.22	7.78	OD	1.56	3.13	4.69	6.25	7.82

Luminous Intensities [cd/klm]

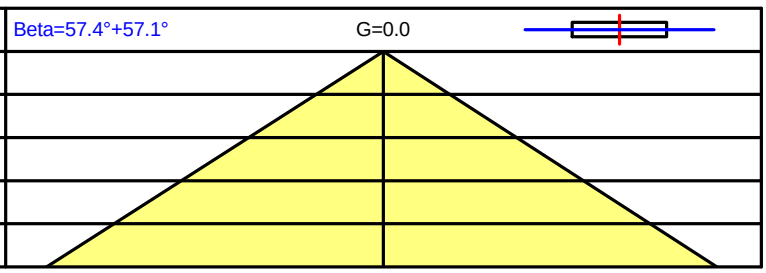
	0	5	15	25	35	45	55	65	75	85
OA	359.25	357.55	344.89	321.41	287.08	243.33	192.39	132.24	68.29	16.02
OB	359.25	357.55	344.89	321.41	287.08	243.33	192.39	132.24	68.29	16.02
OC	359.25	357.31	344.44	319.66	284.50	239.38	187.43	86.26	39.60	1.71
OD	359.25	358.39	347.30	324.01	287.23	243.49	192.36	134.17	72.06	15.37



H[m]	D[m]	Max lux	Med lux
1.00	3.11	359	83
2.00	6.22	90	21
3.00	9.33	40	9
4.00	12.45	22	5
5.00	15.56	14	3



H[m]	D[m]	Max lux	Med lux
1.00	3.11	359	83
2.00	6.22	90	21
3.00	9.34	40	9
4.00	12.45	22	5
5.00	15.56	14	3

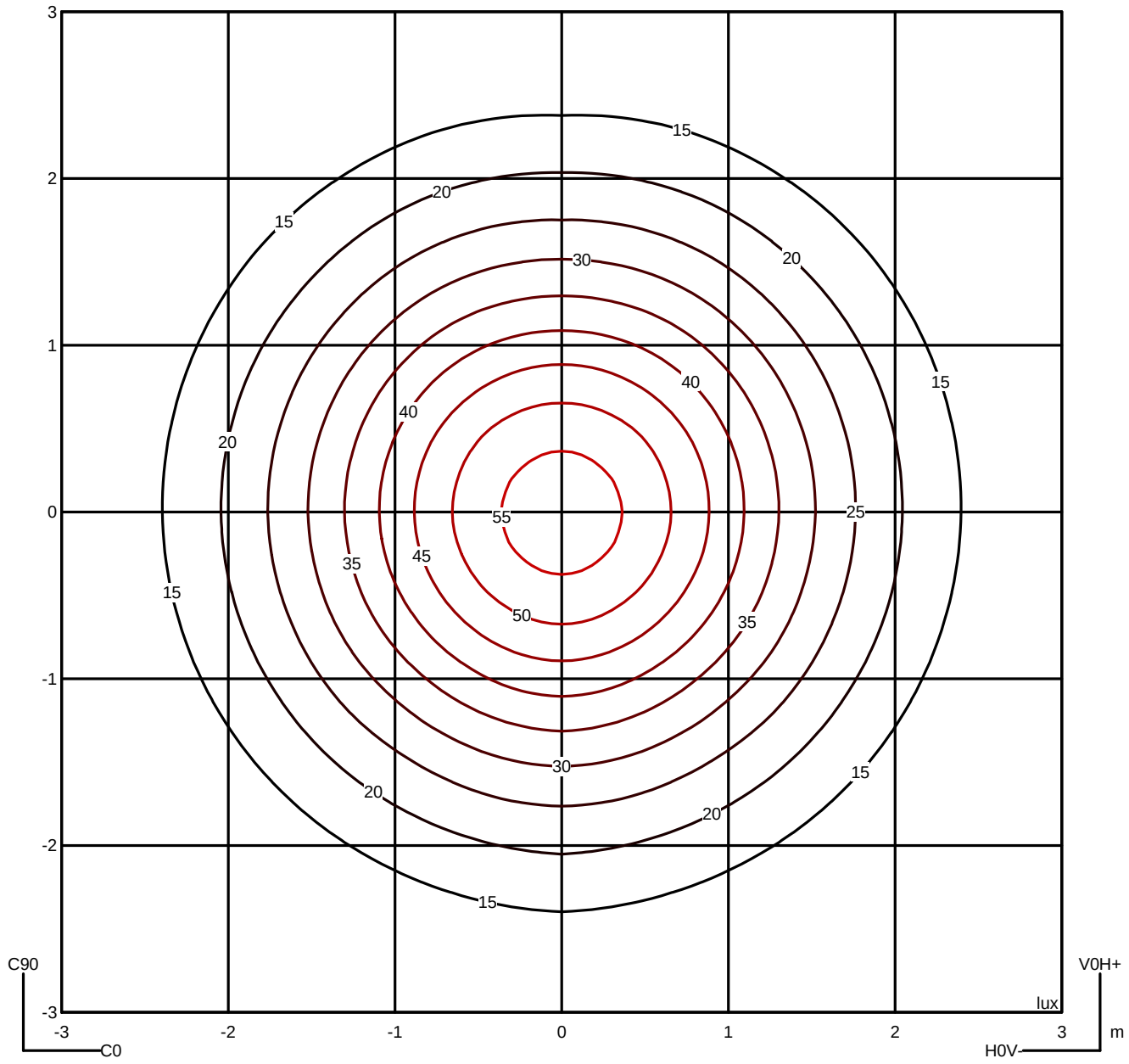


Luminaire
Code 33201201xx
Name NON-LA S 10.5W
Measurem.
Code 33204013xx
Name Aplique leds NON-LA-A 10.5W

Luminaire Flux	1050.95 lm	Luminaire Power	11.00 W	Efficacy	95.54 lm/W	Efficiency	100.00%
Lamps Flux	1050.96 lm	Maximum value	341.83 cd/klm	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m



bover
barcelona lights

Luminaire
Code 33201201xx
Name NON-LA S 10.5W
Measurem.
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Name Aplique leds NON-LA-A 10.5W

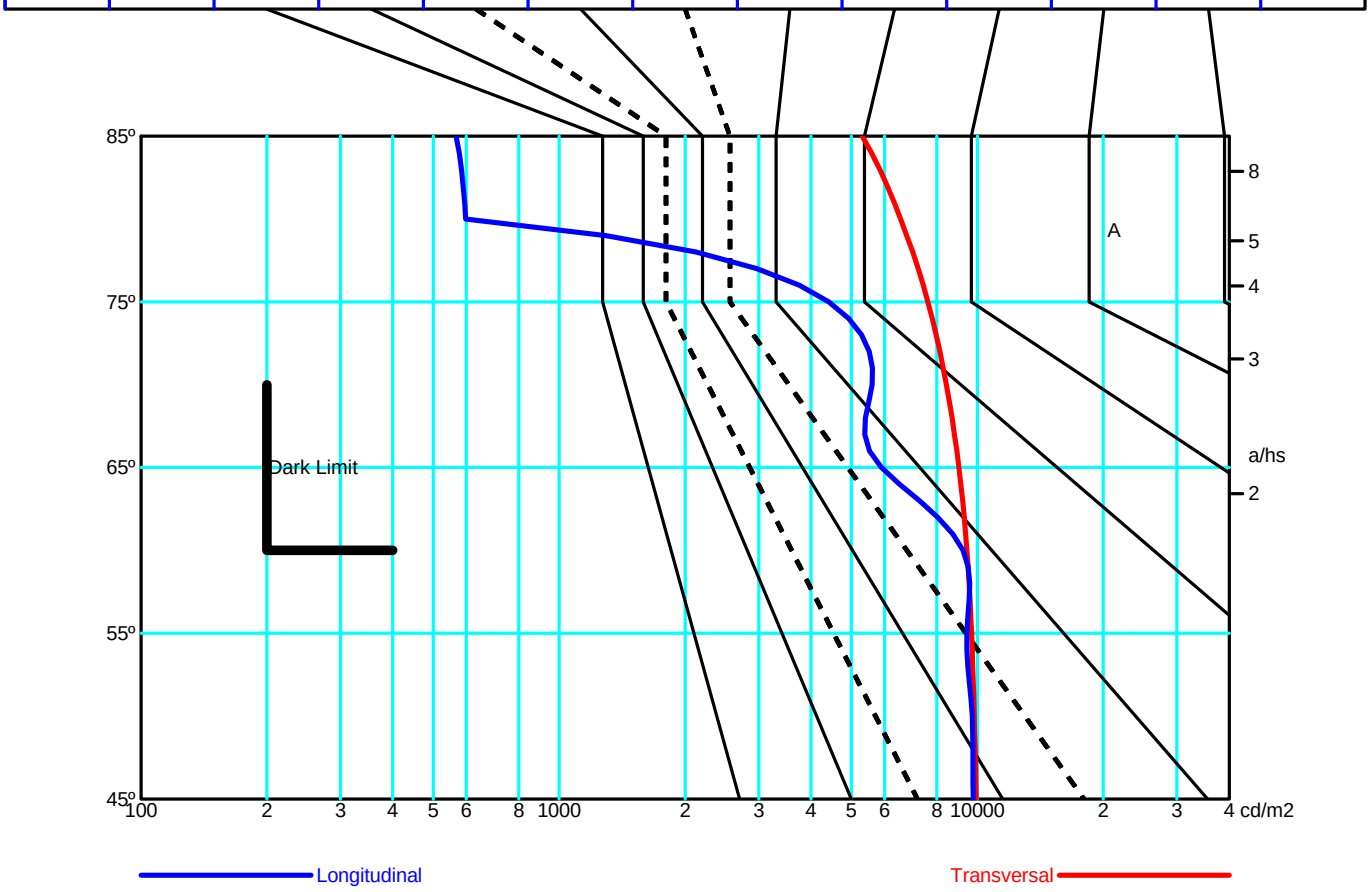
Luminaire Flux	1050.95 lm	Luminaire Power	11.00 W	Efficacy	95.54 lm/W	Efficiency	100.00%
Lamps Flux	1050.96 lm	Maximum value	341.83 cd/klm	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

Average Luminance [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	9936	9829	9684	9444	9034	8433	7618	6552	5307	---
90.0°	9774	9717	9434	9235	5893	5605	4418	598	567	---

Flujo montado o vista longitudinal

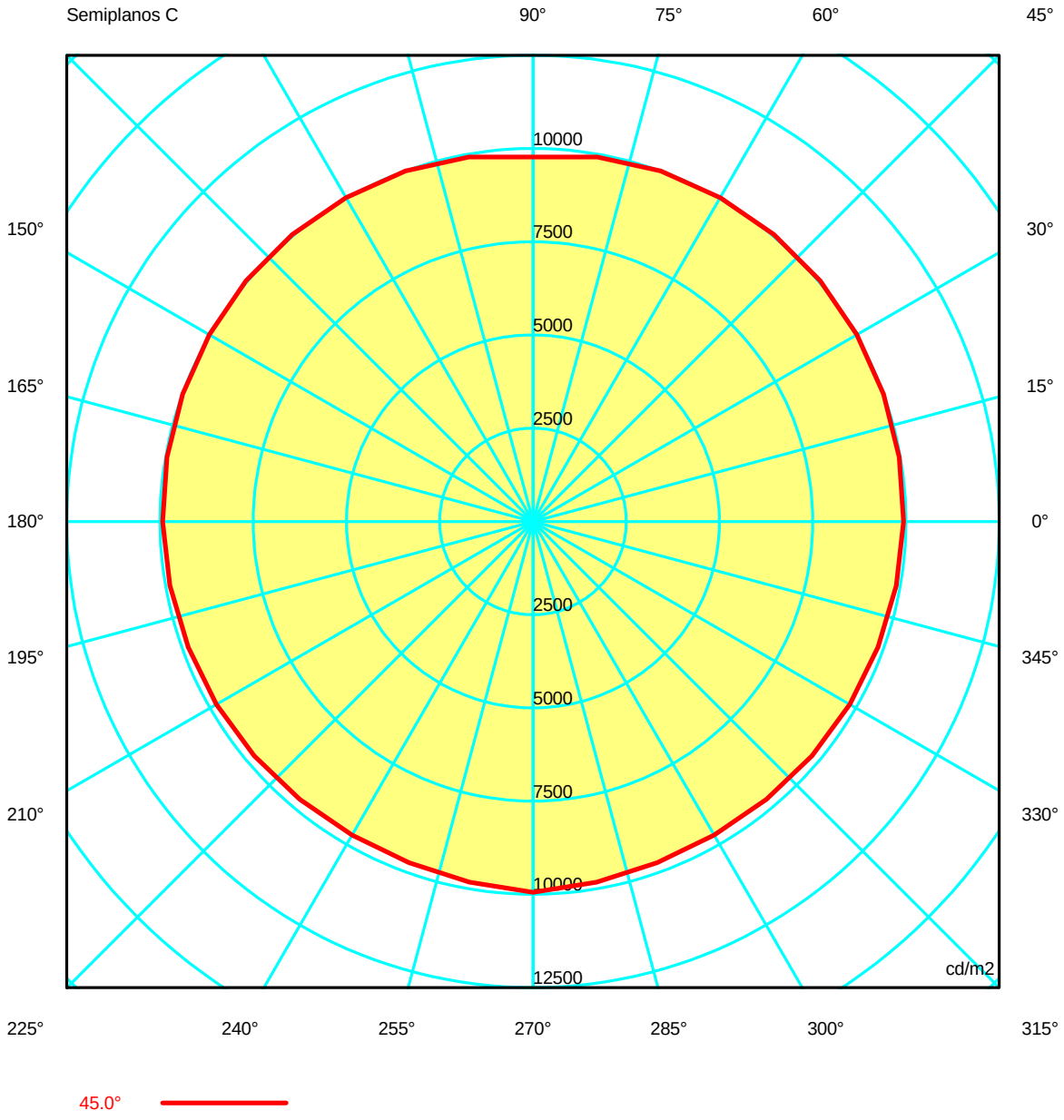
		Iluminancia (lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



Luminaire
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Luminaire Flux	1050.95 lm	Luminaire Power	11.00 W	Efficacy	95.54 lm/W	Efficiency	100.00%
Lamps Flux	1050.96 lm	Maximum value	341.83 cd/klm	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

Luminance



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barcelona lights

Luminaire
Code 33201201xx
Name NON-LA S 10.5W
Measurem.
Code 33204013xx
Name Aplique leds NON-LA-A 10.5W

Luminaire Flux	1050.95 lm	Luminaire Power	11.00 W	Efficacy	95.54 lm/W	Efficiency	100.00%
Lamps Flux	1050.96 lm	Maximum value	341.83 cd/klm	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

Luminance cd/m2 **Table 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	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17
G 5.0	10362.57	10356.25	10349.92	10348.33	10348.39	10349.59	10351.60	10353.58	10354.86	10355.46	10354.86	10353.58	10351.60
G 10.0	10339.03	10331.80	10332.07	10340.66	10335.45	10330.96	10334.83	10339.54	10342.69	10344.48	10342.69	10339.54	10334.83
G 15.0	10308.78	10309.25	10310.10	10311.34	10318.33	10316.19	10305.22	10299.61	10297.37	10295.30	10297.37	10299.61	10305.22
G 20.0	10276.61	10286.70	10295.24	10299.29	10298.76	10291.21	10280.89	10276.75	10277.29	10279.56	10277.29	10276.75	10280.89
G 25.0	10238.85	10248.94	10255.97	10263.40	10266.23	10264.30	10252.84	10226.56	10201.10	10183.22	10201.10	10226.56	10252.84
G 30.0	10188.35	10202.80	10213.33	10228.23	10237.49	10239.30	10226.23	10191.87	10164.27	10153.51	10164.27	10191.87	10226.23
G 35.0	10118.40	10140.21	10156.77	10172.74	10182.90	10189.89	10182.24	10141.42	10085.14	10027.58	10085.14	10141.42	10182.24
G 40.0	10032.10	10061.53	10088.15	10108.81	10115.66	10123.96	10123.05	10083.48	10027.40	9972.16	10027.40	10083.48	10123.05
G 45.0	9935.52	9970.19	9998.16	10025.34	10049.30	10049.23	10029.99	10007.45	9923.92	9774.00	9923.92	10007.45	10029.99
G 50.0	9829.27	9871.41	9904.00	9936.11	9959.07	9950.48	9924.81	9912.02	9846.88	9716.73	9846.88	9912.02	9924.81
G 55.0	9683.97	9740.25	9792.74	9847.99	9876.55	9860.10	9830.57	9822.19	9697.48	9434.34	9697.48	9822.19	9830.57
G 60.0	9443.65	9523.13	9605.36	9683.18	9702.13	9672.14	9644.38	9620.69	9518.35	9235.33	9518.35	9620.69	9644.38
G 65.0	9034.41	9147.94	9252.14	9358.55	9428.58	9381.41	9325.68	9276.01	8458.69	5893.18	8458.69	9276.01	9325.68
G 70.0	8432.83	8578.79	8699.57	8818.89	8926.10	8885.06	8841.62	8687.73	7881.70	5604.68	7881.70	8687.73	8841.62
G 75.0	7617.98	7788.46	7916.55	8030.16	8135.18	8108.94	8055.86	7786.62	6847.74	4417.57	6847.74	7786.62	8055.86
G 80.0	6552.30	6723.10	6837.24	6936.23	7033.37	6925.38	6905.12	6679.50	5130.94	597.80	5130.94	6679.50	6905.12
G 85.0	5306.70	5436.55	5516.30	5572.33	5592.40	5473.55	5325.70	5144.20	3593.35	566.85	3593.35	5144.20	5325.70
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

bover
barcelona lights

Luminaire
Code 33201201xx
Name NON-LA S 10.5W
Measurem.
Code 33204013xx
Name Aplique leds NON-LA-A 10.5W

Luminaire Flux	1050.95 lm	Luminaire Power	11.00 W	Efficacy	95.54 lm/W	Efficiency	100.00%
Lamps Flux	1050.96 lm	Maximum value	341.83 cd/klm	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

Luminance cd/m2 **Table 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	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17
G 5.0	10349.59	10348.39	10348.33	10349.92	10356.25	10362.57	10360.12	10357.79	10360.41	10364.87	10370.45	10376.57	10382.00
G 10.0	10330.96	10335.45	10340.66	10332.07	10331.80	10339.03	10332.33	10335.54	10348.12	10344.55	10342.77	10351.88	10362.16
G 15.0	10316.19	10318.33	10311.34	10310.10	10309.25	10308.78	10301.32	10291.98	10288.11	10295.00	10306.17	10322.24	10348.55
G 20.0	10291.21	10298.76	10299.29	10295.24	10286.70	10276.61	10268.30	10253.38	10237.95	10238.92	10247.02	10260.47	10286.15
G 25.0	10264.30	10266.23	10263.40	10255.97	10248.94	10238.85	10217.11	10193.18	10174.75	10163.06	10159.72	10177.91	10230.36
G 30.0	10239.30	10237.49	10228.23	10213.33	10202.80	10188.35	10154.28	10134.51	10125.07	10091.00	10073.56	10093.76	10134.25
G 35.0	10189.89	10182.90	10172.74	10156.77	10140.21	10118.40	10081.75	10048.86	10031.45	10020.63	9984.34	9957.09	10010.58
G 40.0	10123.96	10115.66	10108.81	10088.15	10061.53	10032.10	9995.05	9956.89	9923.22	9896.36	9880.53	9875.39	9886.73
G 45.0	10049.23	10049.30	10025.34	9998.16	9970.19	9935.52	9889.29	9844.12	9804.77	9765.55	9728.37	9709.57	9734.94
G 50.0	9950.48	9959.07	9936.11	9904.00	9871.41	9829.27	9763.40	9693.74	9634.58	9587.56	9559.94	9540.92	9531.57
G 55.0	9860.10	9876.55	9847.99	9792.74	9740.25	9683.97	9594.49	9502.87	9423.84	9353.70	9340.41	9347.82	9345.13
G 60.0	9672.14	9702.13	9683.18	9605.36	9523.13	9443.65	9330.18	9221.52	9139.47	9075.88	9046.88	9031.84	9055.99
G 65.0	9381.41	9428.58	9358.55	9252.14	9147.94	9034.41	8891.64	8768.56	8688.09	8634.04	8606.27	8577.55	8592.92
G 70.0	8885.06	8926.10	8818.89	8699.57	8578.79	8432.83	8254.30	8097.23	7984.52	7899.93	7855.96	7852.56	7917.18
G 75.0	8108.94	8135.18	8030.16	7916.55	7788.46	7617.98	7405.71	7211.02	7035.15	6845.75	6760.35	6788.23	6875.91
G 80.0	6925.38	7033.37	6936.23	6837.24	6723.10	6552.30	6330.16	6116.89	5883.47	5553.62	5266.74	5087.75	5081.74
G 85.0	5473.55	5592.40	5572.33	5516.30	5436.55	5306.70	5108.48	4903.80	4646.23	4230.84	3818.53	3315.26	2666.70
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

bover
barcelona lights

Luminaire
Code 33201201xx
Name NON-LA S 10.5W
Measurem.
Code 33204013xx
Name Aplique leds NON-LA-A 10.5W

Luminaire Flux	1050.95 lm	Luminaire Power	11.00 W	Efficacy	95.54 lm/W	Efficiency 100.00%
Lamps Flux	1050.96 lm	Maximum value	341.83 cd/klm	Position	C=0.00 G=0.00	CG Sym. on planes 270-90

Luminance cd/m2 **Table 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	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17	10372.17
G 5.0	10385.38	10386.91	10385.38	10382.00	10376.57	10370.45	10364.87	10360.41	10357.79	10360.12
G 10.0	10369.14	10372.91	10369.14	10362.16	10351.88	10342.77	10344.55	10348.12	10335.54	10332.33
G 15.0	10369.85	10380.92	10369.85	10348.55	10322.24	10306.17	10295.00	10288.11	10291.98	10301.32
G 20.0	10309.33	10324.03	10309.33	10286.15	10260.47	10247.02	10238.92	10237.95	10253.38	10268.30
G 25.0	10283.51	10321.93	10283.51	10230.36	10177.91	10159.72	10163.06	10174.75	10193.18	10217.11
G 30.0	10183.92	10236.67	10183.92	10134.25	10093.76	10073.56	10091.00	10125.07	10134.51	10154.28
G 35.0	10079.11	10123.82	10079.11	10010.58	9957.09	9984.34	10020.63	10031.45	10048.86	10081.75
G 40.0	9962.56	10101.17	9962.56	9886.73	9875.39	9880.53	9896.36	9923.22	9956.89	9995.05
G 45.0	9817.64	9941.94	9817.64	9734.94	9709.57	9728.37	9765.55	9804.77	9844.12	9889.29
G 50.0	9652.86	9912.16	9652.86	9531.57	9540.92	9559.94	9587.56	9634.58	9693.74	9763.40
G 55.0	9421.65	9682.60	9421.65	9345.13	9347.82	9340.41	9353.70	9423.84	9502.87	9594.49
G 60.0	9187.27	9556.57	9187.27	9055.99	9031.84	9046.88	9075.88	9139.47	9221.52	9330.18
G 65.0	8736.81	9166.17	8736.81	8592.92	8577.55	8606.27	8634.04	8688.09	8768.56	8891.64
G 70.0	8256.53	8863.92	8256.53	7917.18	7852.56	7855.96	7899.93	7984.52	8097.23	8254.30
G 75.0	7289.70	8038.09	7289.70	6875.91	6788.23	6760.35	6845.75	7035.15	7211.02	7405.71
G 80.0	5801.92	7234.32	5801.92	5081.74	5087.75	5266.74	5553.62	5883.47	6116.89	6330.16
G 85.0	3201.89	5091.26	3201.89	2666.70	3315.26	3818.53	4230.84	4646.23	4903.80	5108.48
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00