Luminaire

Code	AC37510x
Name	OPTICAL GROUP BIRDIE 5,4W
Line	

Measurem.

Code	CL092A25D010GP
Name	OPTICAL GROUP BIRDIE 5,4W

Source Data

Code	SPMWH3326MS7WZW3SD	Correlated Color Temperature (CCT)	2757K	Q.ty	1
Name	Samsung	Color rendering index (CRI)	92		
Line					

Measurement data

Coordinate system	CG	Symmetry Type	Sym. on planes 270-90
Date	14-04-2025	Maximum Gamma Angle	90°
Measurement Distance	6.49m	Measurement Flux	480.2 lm
Maximum	1673.14 cd/klm	Position	C=0.0° G=0.0°
Remarks	RM24121602		

Electrical Parameters

Channel 1		Channel 2	
Voltage	24.09 V	Voltage	0.00 V
Current	0.22 A	Current	0.00 A
Power	5.40 W	Power	0.00 W
Frequency	0 Hz	Frequency	0 Hz
Power Factor	1.00	Power Factor	0.00

Environmental Parameters

Temperature	24.3 °C	Air Speed	0.0 m/s
Humidity	45.9 %		

Luminaire Dimensions

Rectangular Luminaire	Length	160 mm	Width	80 mm	Height	20 mm
Rectangular Luminous Area	Length	70 mm	Width	40 mm	Height	0 mm

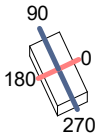
Horizontal Luminous Area	0.002800 m2	Emitting area on Plane 180°	0.000000 m2
Emitting area on Plane 0°	0.000000 m2	Emitting area on Plane 270°	0.000000 m2
Emitting area on Plane 90°	0.000000 m2	Glare area at 76°	0.000677 m2

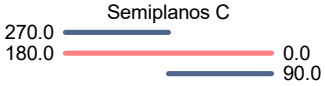
Photometric Assessment

Luminaire Flux	480.2 lm	Source Flux	480.2 lm
Efficacy	88.866 lm/W	Efficiency	100.0 %
CIE Flux Codes	92 98 100 100 100	D DIN 5040	A60
F UTE	1.00 A	B NBN	BZ 1

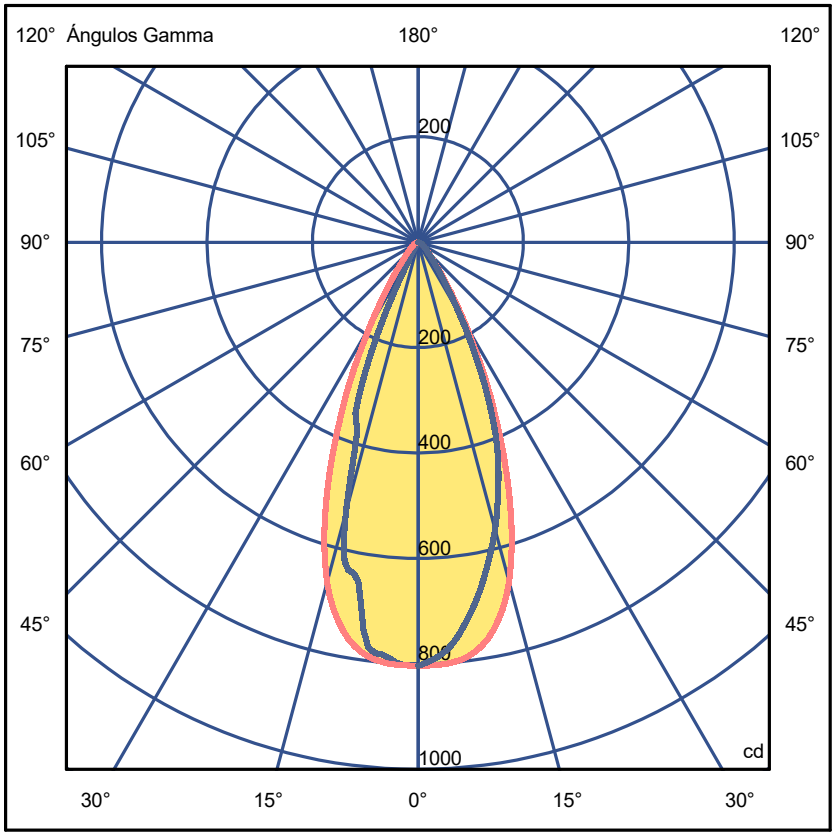


160mm x 80mm





ULOR 0.00 %
DLOR100.00 %
RN 0.00 %



Luminaire
Code AC37510x
Name OPTICAL GROUP BIRDIE 5,4W
Measurem.
Code CL092A25D010GP
Name OPTICAL GROUP BIRDIE 5,4W

Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.866 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

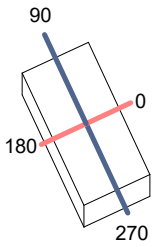
Luminous Intensity Table cd **Table 1/1**

	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	803	803	803	803	803	803	803	803	803	803	803	803	803
G 2.5	802	802	802	803	803	803	803	801	798	795	792	790	789
G 5.0	785	787	789	792	795	797	799	795	787	777	770	764	763
G 7.5	762	760	764	772	776	781	788	782	768	750	736	725	721
G 10.0	654	600	725	740	749	754	764	760	738	712	693	676	673
G 12.5	631	556	679	696	703	711	724	725	700	667	639	621	619
G 15.0	530	574	624	639	644	648	667	675	649	612	585	568	564
G 17.5	387	507	560	572	568	569	591	608	583	550	526	509	505
G 20.0	346	449	491	492	482	479	506	527	507	479	461	447	445
G 22.5	249	385	416	408	393	388	413	441	427	404	389	377	376
G 25.0	142	307	335	325	310	304	328	352	344	326	313	302	299
G 27.5	40	237	254	247	230	228	249	274	265	248	237	225	222
G 30.0	8	166	178	176	167	161	179	198	195	180	168	159	157
G 32.5	5	109	125	122	115	112	124	142	137	126	116	108	106
G 35.0	3	73	85	85	80	77	86	97	95	88	81	75	74
G 37.5	2	51	61	60	57	55	61	68	66	62	57	54	53
G 40.0	2	36	44	44	42	41	45	49	49	45	42	40	39
G 42.5	1	27	33	34	32	32	34	37	37	35	32	31	31
G 45.0	1	20	25	27	26	25	27	29	29	27	26	25	25
G 47.5	1	16	20	22	21	21	23	24	24	23	22	21	21
G 50.0	1	14	17	18	18	18	19	20	20	19	19	18	18
G 52.5	0	12	15	16	16	15	16	17	17	17	16	16	16
G 55.0	0	10	12	13	13	13	14	15	15	14	13	13	13
G 57.5	0	8	10	11	11	11	12	13	12	12	11	11	11
G 60.0	0	6	9	9	9	9	10	10	10	10	9	9	10
G 62.5	0	5	7	8	8	8	8	9	9	8	8	8	8
G 65.0	0	4	6	6	6	6	7	7	7	7	7	7	7
G 67.5	0	3	5	5	5	5	5	6	6	6	5	6	6
G 70.0	0	3	4	4	4	4	4	5	5	5	5	5	5
G 72.5	0	2	3	3	3	3	3	4	4	4	4	4	4
G 75.0	0	2	2	2	2	2	2	3	3	3	3	3	3
G 77.5	0	1	2	2	1	1	2	2	2	2	2	2	2
G 80.0	0	1	1	1	1	1	1	1	1	1	2	2	2
G 82.5	0	0	0	0	0	0	1	1	1	1	1	1	1
G 85.0	0	0	0	0	0	0	0	0	0	0	1	1	1
G 87.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G 90.0	0	0	0	0	0	0	0	0	0	0	0	0	0

Luminaire
Code AC37510x
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Measurem.
Code CL092A25D010GP
Name OPTICAL GROUP BIRDIE 5,4W

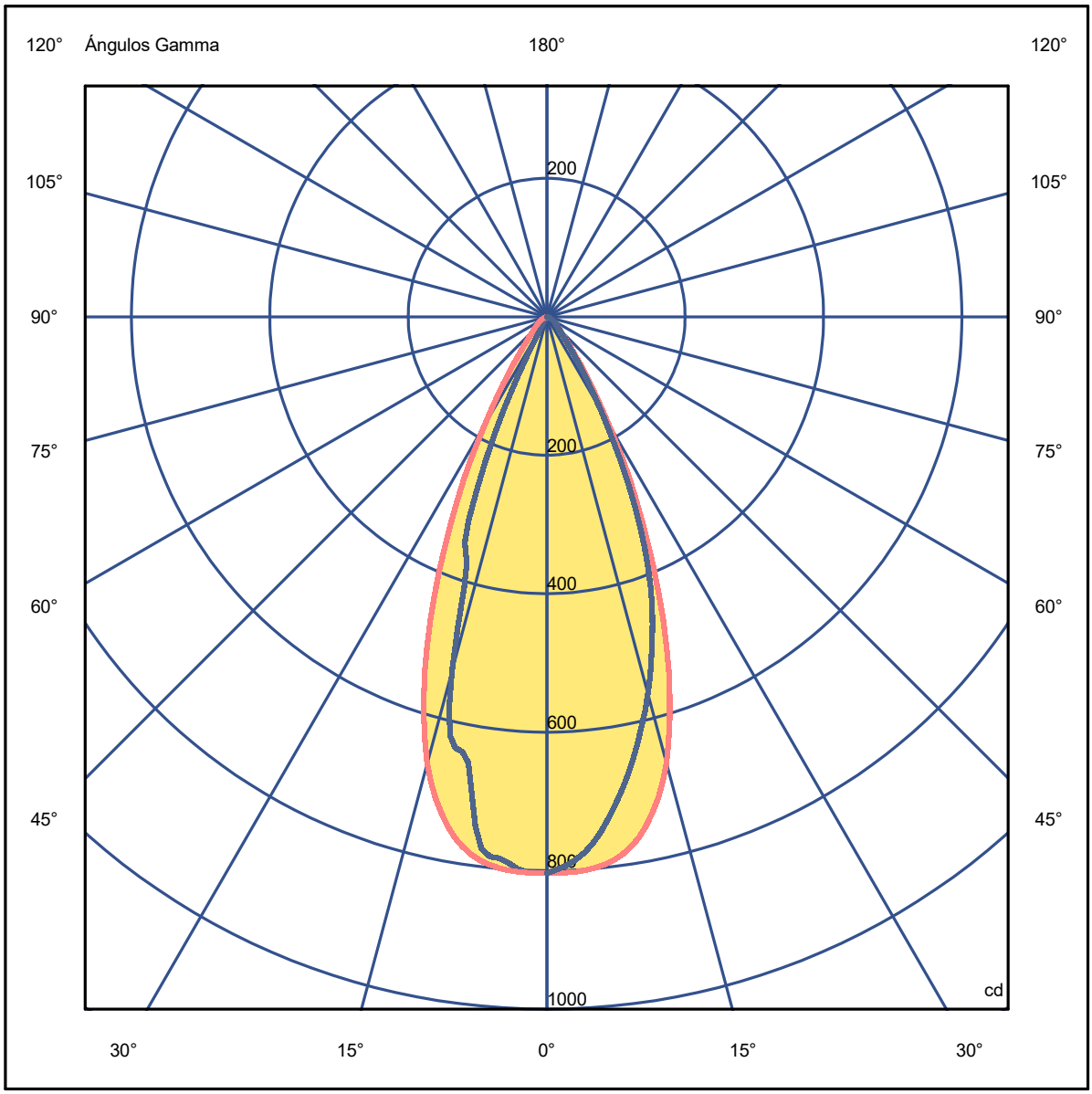
Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.866 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

160mm x 80mm



Semiplanos C





Luminaire
Code AC37510x
Name OPTICAL GROUP BIRDIE 5,4W
Measurem.
Code CL092A25D010GP
Name OPTICAL GROUP BIRDIE 5,4W

Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.866 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

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
Working Plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions	Lateral View					Viewed Endwise				
x=2H y=2H	16.4	17.1	16.6	17.3	17.5	14.4	15.1	14.7	15.3	15.5
x=2H y=3H	16.6	17.3	16.9	17.5	17.8	14.5	15.2	14.8	15.4	15.6
x=2H y=4H	16.7	17.3	17.0	17.6	17.9	14.5	15.1	14.8	15.3	15.6
x=2H y=6H	16.7	17.3	17.1	17.6	17.9	14.4	15.0	14.8	15.3	15.6
x=2H y=8H	16.7	17.3	17.1	17.5	17.8	14.4	14.9	14.7	15.2	15.5
x=2H y=12H	16.7	17.2	17.0	17.5	17.8	14.4	14.9	14.7	15.2	15.5
x=4H y=2H	16.4	17.1	16.7	17.3	17.6	14.7	15.3	15.0	15.5	15.8
x=4H y=3H	16.9	17.4	17.2	17.7	18.0	14.9	15.4	15.2	15.7	16.0
x=4H y=4H	17.0	17.4	17.4	17.8	18.1	15.0	15.4	15.3	15.7	16.1
x=4H y=6H	17.0	17.4	17.4	17.8	18.2	15.0	15.3	15.4	15.7	16.1
x=4H y=8H	17.0	17.4	17.4	17.7	18.1	14.9	15.3	15.3	15.6	16.0
x=4H y=12H	17.0	17.3	17.4	17.7	18.1	14.9	15.2	15.3	15.6	16.0
x=8H y=4H	17.0	17.3	17.4	17.7	18.1	15.0	15.3	15.4	15.7	16.1
x=8H y=6H	17.1	17.3	17.5	17.7	18.2	15.0	15.3	15.5	15.7	16.2
x=8H y=8H	17.1	17.3	17.5	17.7	18.2	15.0	15.2	15.5	15.7	16.1
x=8H y=12H	17.0	17.2	17.5	17.7	18.2	15.0	15.2	15.5	15.6	16.1
x=12H y=4H	17.0	17.3	17.4	17.7	18.1	15.0	15.3	15.4	15.7	16.1
x=12H y=6H	17.0	17.3	17.5	17.7	18.2	15.0	15.2	15.5	15.7	16.1
x=12H y=8H	17.0	17.2	17.5	17.7	18.2	15.0	15.2	15.5	15.6	16.1

Luminaire
Code AC37510x
Name OPTICAL GROUP BIRDIE 5,4W
Measurem.
Code CL092A25D010GP
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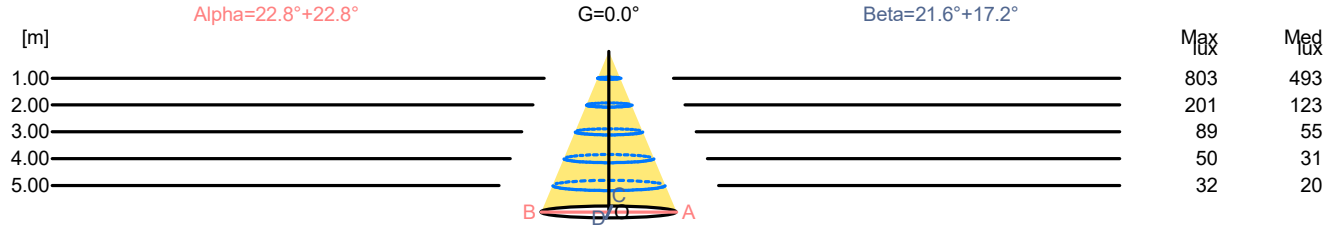
Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.866 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

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	0.42	0.84	1.26	1.68	2.10	OC	0.40	0.79	1.19	1.58	1.98
OB	0.42	0.84	1.26	1.68	2.10	OD	0.31	0.62	0.93	1.24	1.55

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	803.43	799.01	667.49	327.64	86.16	27.05	14.08	6.73	2.49	0.24
OB	803.43	799.01	667.49	327.64	86.16	27.05	14.08	6.73	2.49	0.24
OC	803.43	763.33	564.35	299.22	73.66	25.01	13.49	6.78	2.93	0.69
OD	803.43	785.08	530.00	142.09	3.26	0.93	0.49	0.25	0.10	0.04



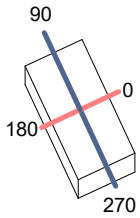
H[m]	D[m]	Max lux	Med lux	Alpha=22.8°+22.8° G=0.0
1.00	0.84	803	493	
2.00	1.68	201	123	
3.00	2.53	89	55	
4.00	3.37	50	31	
5.00	4.21	32	20	

H[m]	D[m]	Max lux	Med lux	Beta=17.2°+21.6° G=0.0
1.00	0.71	803	493	
2.00	1.41	201	123	
3.00	2.12	89	55	
4.00	2.82	50	31	
5.00	3.53	32	20	

Luminaire
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Name OPTICAL GROUP BIRDIE 5,4W
Measurem.
Code CL092A25D010GP
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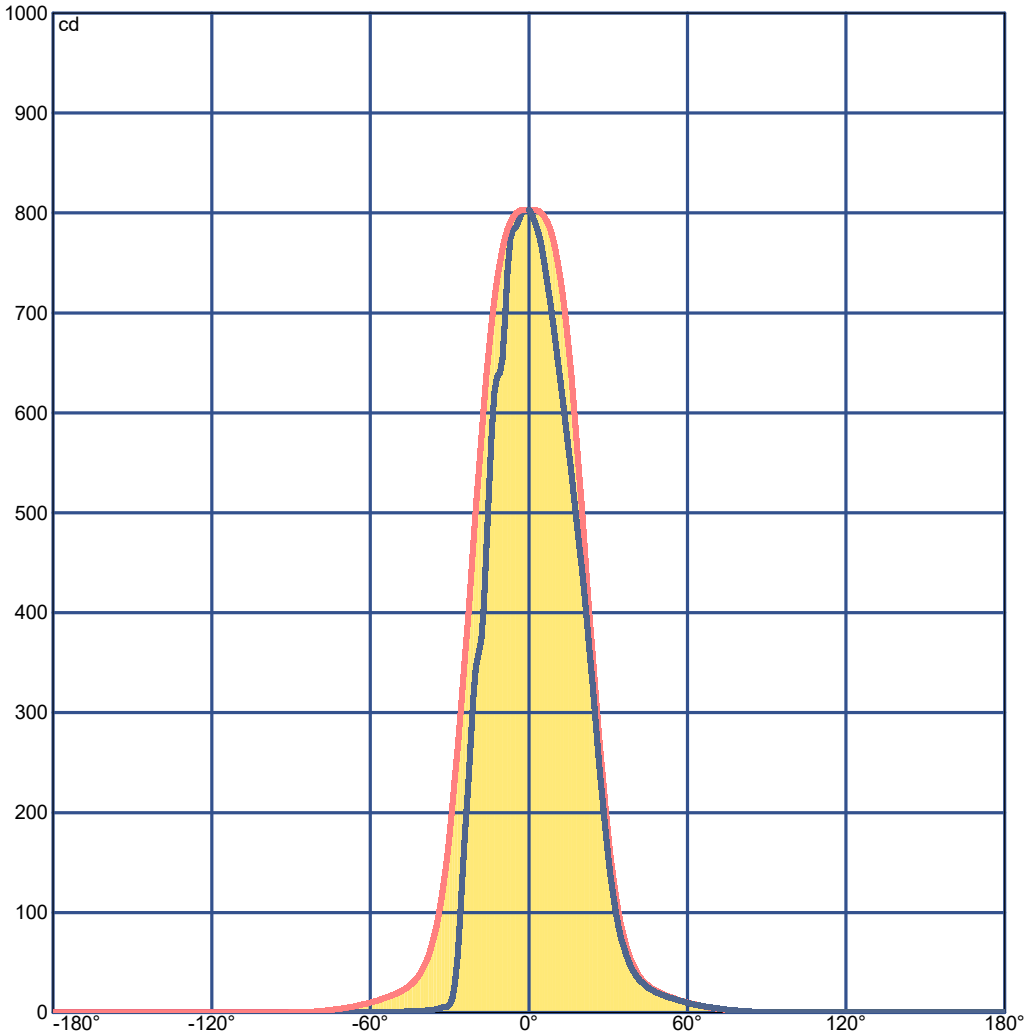
Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.866 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

160mm x 80mm



Semiplanos C





Luminaire
Code AC37510x
Name OPTICAL GROUP BIRDIE 5,4W
Measurem.
Code CL092A25D010GP
Name OPTICAL GROUP BIRDIE 5,4W

Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.866 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

Flujo Total=480.20 Flujo Luminaria=480.20

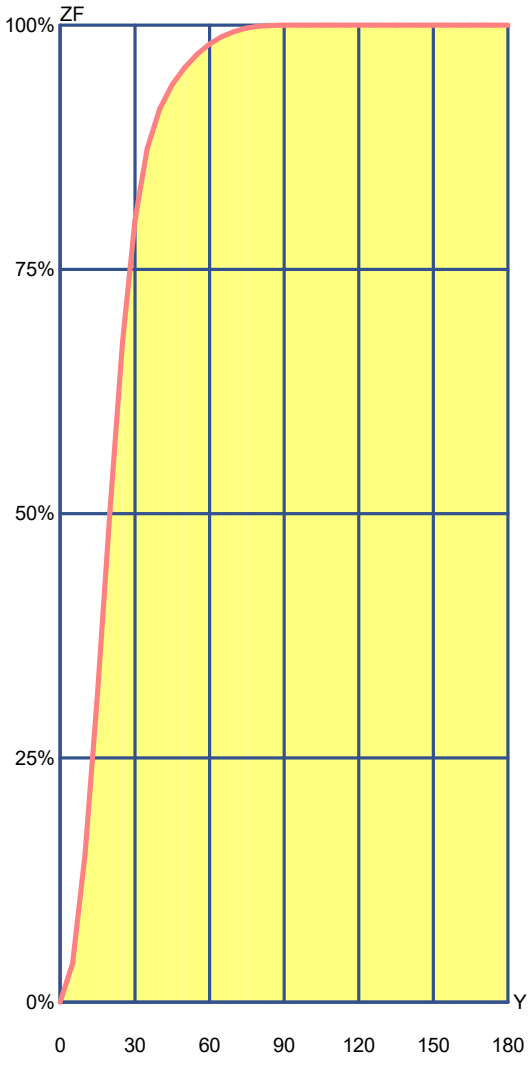
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.68	0.73	0.78	0.82	0.85	0.90	0.93	0.95	0.97	0.98	1.01	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

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)	152	504	800	914	956	980	993	999	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.
92 98 100 100 100

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



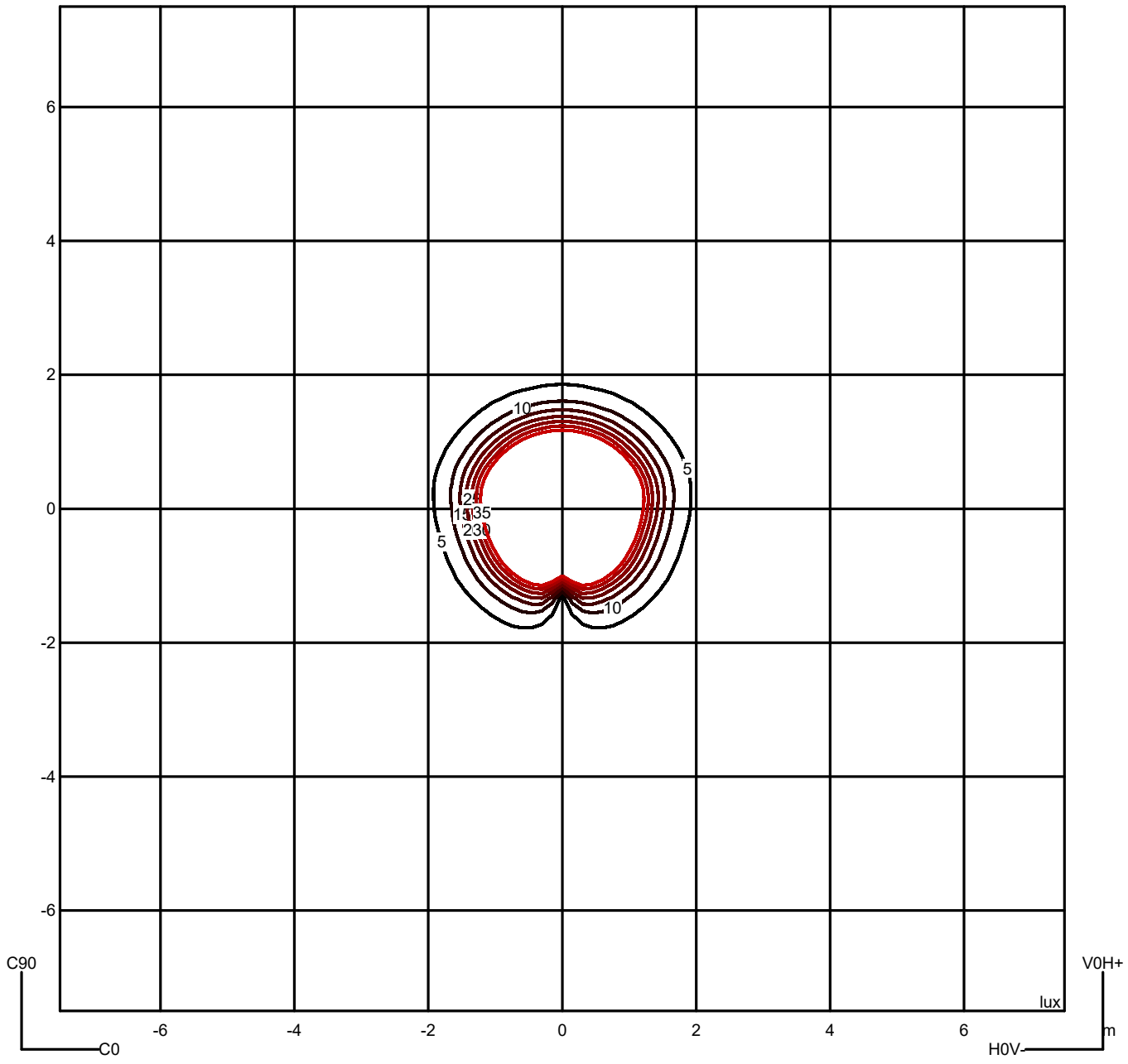
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	39.56	39.56	3.96 %	3.96 %
10°	112.19	151.75	11.22 %	15.18 %
15°	164.65	316.40	16.47 %	31.64 %
20°	187.40	503.80	18.74 %	50.38 %
25°	171.84	675.64	17.18 %	67.56 %
30°	124.66	800.31	12.47 %	80.03 %
35°	73.10	873.41	7.31 %	87.34 %
40°	40.58	913.99	4.06 %	91.40 %
45°	24.89	938.88	2.49 %	93.89 %
50°	17.59	956.48	1.76 %	95.65 %
55°	13.62	970.10	1.36 %	97.01 %
60°	10.37	980.47	1.04 %	98.05 %
65°	7.57	988.04	0.76 %	98.80 %
70°	5.36	993.40	0.54 %	99.34 %
75°	3.52	996.92	0.35 %	99.69 %
80°	1.98	998.90	0.20 %	99.89 %
85°	0.82	999.72	0.08 %	99.97 %
90°	0.28	1000.00	0.03 %	100.00 %
95°	0.00	1000.00	0.00 %	100.00 %
100°	0.00	1000.00	0.00 %	100.00 %
105°	0.00	1000.00	0.00 %	100.00 %
110°	0.00	1000.00	0.00 %	100.00 %
115°	0.00	1000.00	0.00 %	100.00 %
120°	0.00	1000.00	0.00 %	100.00 %
125°	0.00	1000.00	0.00 %	100.00 %
130°	0.00	1000.00	0.00 %	100.00 %
135°	0.00	1000.00	0.00 %	100.00 %
140°	0.00	1000.00	0.00 %	100.00 %
145°	0.00	1000.00	0.00 %	100.00 %
150°	0.00	1000.00	0.00 %	100.00 %
155°	0.00	1000.00	0.00 %	100.00 %
160°	0.00	1000.00	0.00 %	100.00 %
165°	0.00	1000.00	0.00 %	100.00 %
170°	0.00	1000.00	0.00 %	100.00 %
175°	0.00	1000.00	0.00 %	100.00 %
180°	0.00	1000.00	0.00 %	100.00 %

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Source Flux	480 lm	Maximum value	803.43 cd	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



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Source Flux	480 lm	Maximum value	803.43 cd	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

Spectral Data

Std.: No import standard

CIE1931	x =0.457132	y =0.412934
CIE1960	u =0.259699	v =0.351885
CIE1976	u'=0.259699	v'=0.527828
D(u,v)	0.00110	

Color rendering index (CRI)
Color Rendering Components

CCT = [2757 K]*

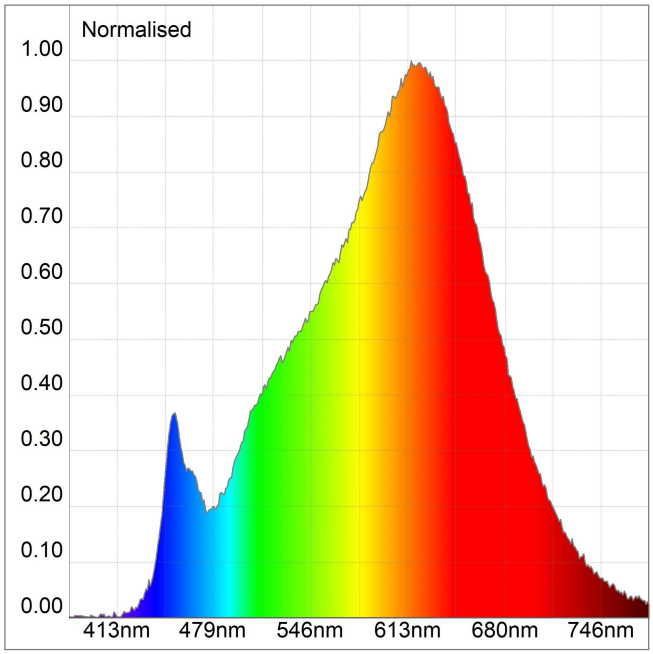
CRI8(Ra) [92.6]* CRI15(Rav) [89.8]*

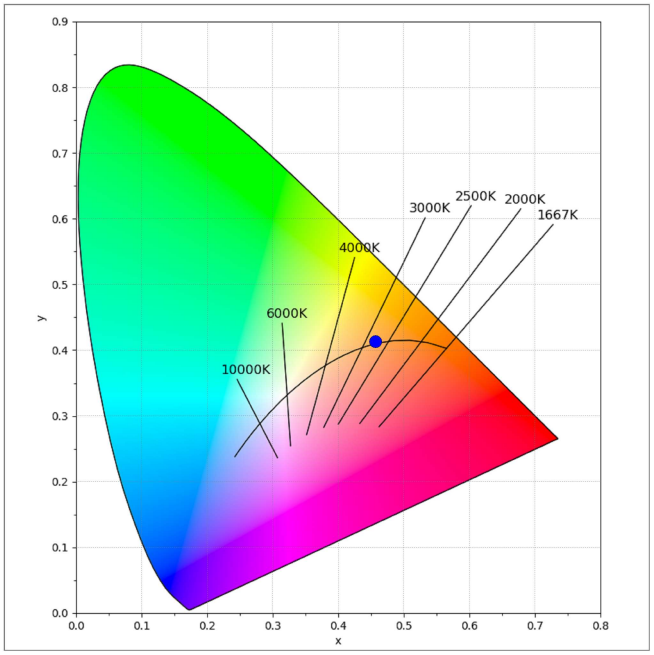
R 1: 92.7	R 2: 96.9	R 3: 99.1	R 4: 92.7	R 5: 92.6
R 6: 97.0	R 7: 90.8	R 8: 79.4	R 9: 55.1	R10: 92.2
R11: 94.4	R12: 83.3	R13: 93.8	R14: 99.5	R15: 87.5

Spectral Distribution

l(nm)	Normalised	l(nm)	Normalised	l(nm)	Normalised
380.0	0.002028	386.0	0.003392	392.0	0.001475
398.0	0.001038	404.0	0.006494	410.0	0.002155
416.0	0.002968	422.0	0.011235	428.0	0.024183
434.0	0.049004	440.0	0.107171	446.0	0.249801
452.0	0.365737	458.0	0.295618	464.0	0.262948
470.0	0.225100	476.0	0.191633	482.0	0.200000
488.0	0.232271	494.0	0.280478	500.0	0.315936
506.0	0.372112	512.0	0.402390	518.0	0.430279
524.0	0.458167	530.0	0.478088	536.0	0.505976
542.0	0.529880	548.0	0.549801	554.0	0.589641
560.0	0.617530	566.0	0.637450	572.0	0.673307
578.0	0.729084	584.0	0.764940	590.0	0.816733
596.0	0.872510	602.0	0.912351	608.0	0.948207
614.0	0.984064	620.0	0.992032	626.0	0.988048
632.0	0.956175	638.0	0.936255	644.0	0.872510
650.0	0.820717	656.0	0.760956	662.0	0.693227
668.0	0.617530	674.0	0.553785	680.0	0.486056
686.0	0.414343	692.0	0.362151	698.0	0.301992
704.0	0.258167	710.0	0.215936	716.0	0.185657
722.0	0.154183	728.0	0.128287	734.0	0.110757
740.0	0.091633	746.0	0.071315	752.0	0.059761
758.0	0.047809	764.0	0.042629	770.0	0.035458
776.0	0.030080				

Spectrum Graph

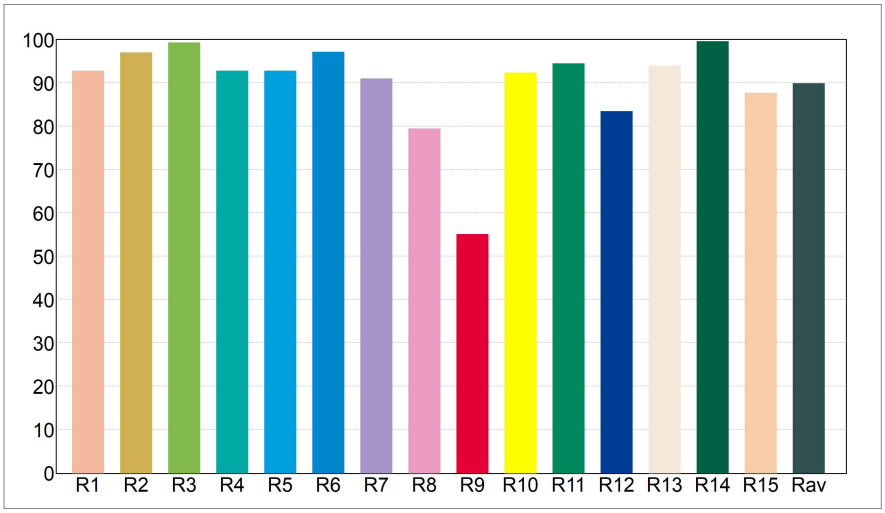


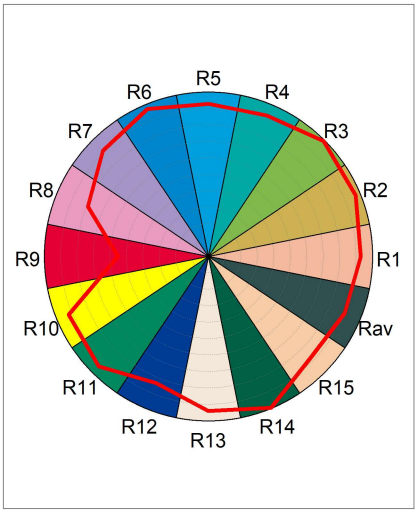


Luminaire
Code AC37510x
Name OPTICAL GROUP BIRDIE 5,4W
Measurem.
Code CL092A25D010GP
Name OPTICAL GROUP BIRDIE 5,4W

Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.866 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90

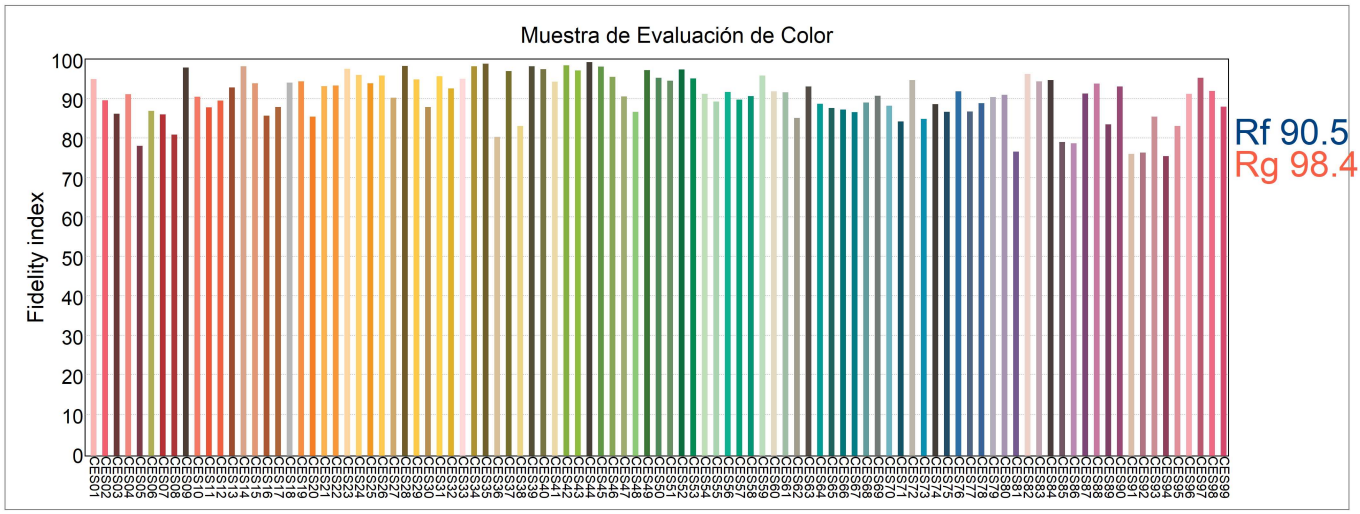
CRI Graphs



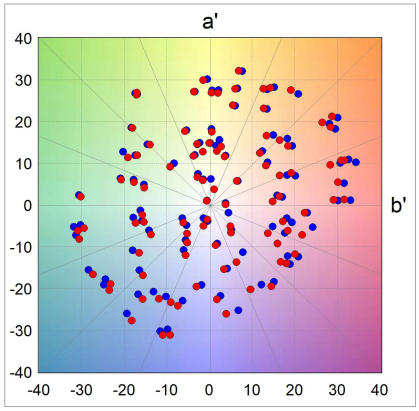


Luminaire
Code AC37510x
Name OPTICAL GROUP BIRDIE 5,4W
Measurem.
Code CL092A25D010GP
Name OPTICAL GROUP BIRDIE 5,4W

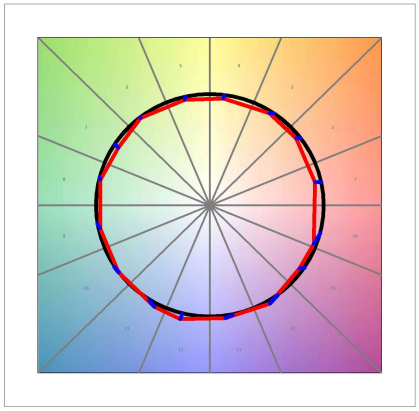
Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.866 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=0.00 G=0.00	CG	Sym. on planes 270-90



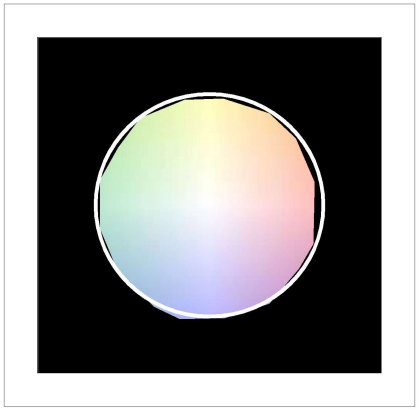
Chromatic Coordinates (a', b') 99 CES



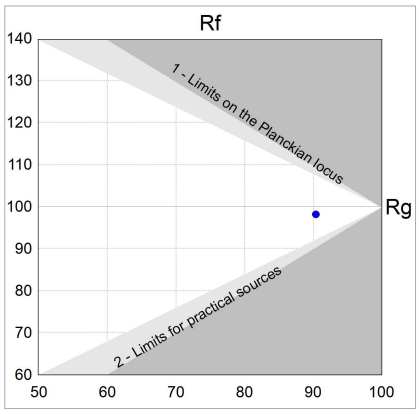
Color Vector Graphic



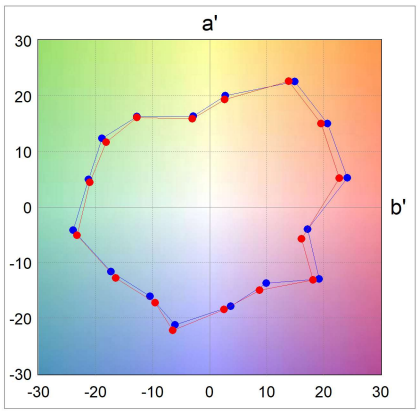
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

