Luminaire

Code	AC37500x
Name	OPTICAL GROUP BIRDIE 2,7W 20º
Line	

Measurem.

Code	CL092A25D001GPE1
Name	OPTICAL GROUP BIRDIE 2,7W 20º

Source Data

Code	SPMWH3326MS7WZW3SD	Correlated Color Temperature (CCT)	2733K	Q.ty	1
Name	Samsung	Color rendering index (CRI)	92		
Line					

Measurement data

Coordinate system	CG	Symmetry Type	Sym. on planes 270-90
Date	15-01-2025	Maximum Gamma Angle	180°
Measurement Distance	6.44m	Measurement Flux	193.4 lm
Maximum	1624.90 cd/klm	Position	C=75.0° G=17.5°
Remarks	RM21121604		

Electrical Parameters

Channel 1		Channel 2	
Voltage	24.16 V	Voltage	0.00 V
Current	0.11 A	Current	0.00 A
Power	2.75 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	16.3 %		

Luminaire Dimensions

Rectangular Luminaire	Length	90 mm	Width	45 mm	Height	20 mm
Rectangular Luminous Area	Length	40 mm	Width	30 mm	Height	0 mm

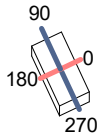
Horizontal Luminous Area	0.001200 m2	Emitting area on Plane 180°	0.000000 m2
Emitting area on Plane 0°	0.000000 m2	Emitting area on Plane 270°	0.000000 m2
Emitting area on Plane 90°	0.000000 m2	Glare area at 76°	0.000290 m2

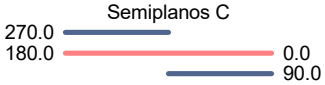
Photometric Assessment

Luminaire Flux	193.4 lm	Source Flux	193.4 lm
Efficacy	70.404 lm/W	Efficiency	100.0 %
CIE Flux Codes	81 95 99 100 100	D DIN 5040	A60
F UTE	1.00 B	B NBN	BZ 1

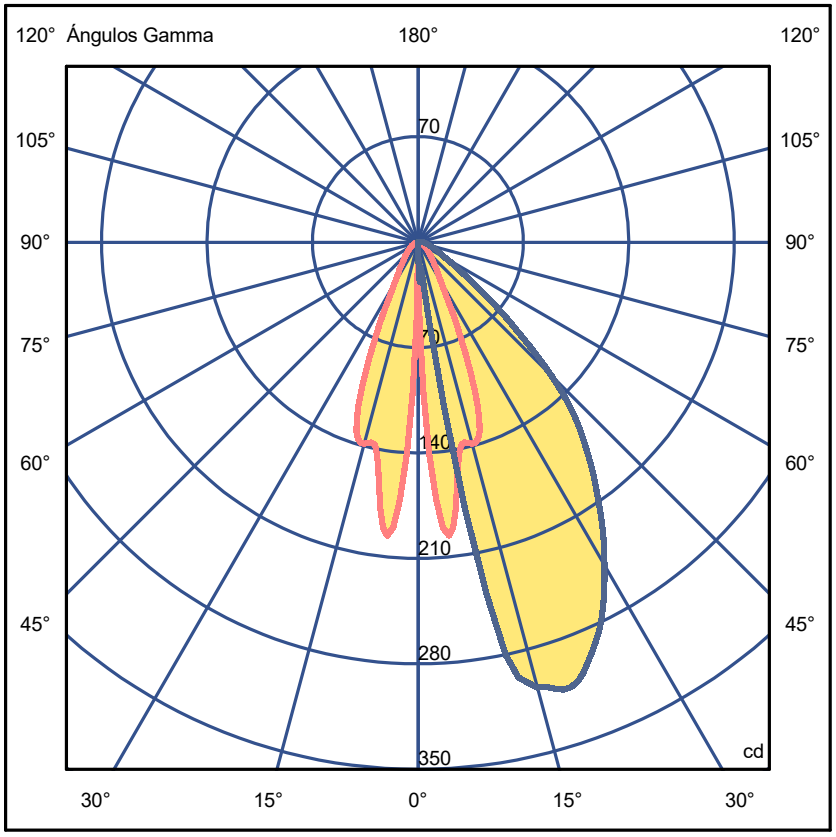


90mm x 45mm





ULOR 0.48 %
DLOR 99.52 %
RN 0.48 %



Luminaire
Code AC37500x
Name OPTICAL GROUP BIRDIE 2,7W 20º
Measurem.
Code CL092A25D001GPE1
Name OPTICAL GROUP BIRDIE 2,7W 20º

Luminaire Flux	193 lm	Luminaire Power	2.7 W	Efficacy	70.404 lm/W	Efficiency	100.00%
Source Flux	193 lm	Maximum value	314.22 cd	Position	C=75.00 G=17.50	CG	Sym. on planes 270-90

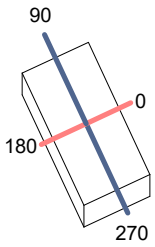
Luminous Intensity Table cd **Table 1/1**

	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	0	0	0	0	0	0	0	0	0	0	0	0	0
G 2.5	1	27	53	75	95	110	121	128	129	120	99	67	28
G 5.0	1	41	81	117	147	171	190	210	229	232	202	129	24
G 7.5	1	43	84	122	151	169	186	210	241	259	283	215	34
G 10.0	0	39	75	103	121	134	152	186	219	253	281	303	179
G 12.5	0	33	63	80	86	100	137	196	244	275	284	310	294
G 15.0	0	26	47	58	61	84	139	209	254	290	314	308	306
G 17.5	0	19	34	39	44	76	135	188	216	264	297	314	311
G 20.0	0	15	25	28	35	69	116	145	188	271	308	307	310
G 22.5	0	12	20	21	29	58	87	108	187	272	281	298	298
G 25.0	0	10	15	16	24	46	61	89	179	242	254	287	284
G 27.5	0	8	12	13	20	35	42	80	160	195	238	258	267
G 30.0	0	7	10	11	17	25	31	72	133	156	230	236	248
G 32.5	0	6	9	9	14	19	25	62	103	131	217	220	228
G 35.0	1	5	7	8	12	15	21	49	75	109	189	205	208
G 37.5	0	4	6	7	10	12	17	37	49	90	156	187	190
G 40.0	0	4	5	6	9	10	14	28	33	74	116	165	170
G 42.5	0	3	4	5	8	8	12	21	24	61	84	141	151
G 45.0	0	3	4	5	7	7	10	16	19	48	61	112	125
G 47.5	0	3	3	4	6	6	9	12	15	35	44	83	96
G 50.0	0	2	2	3	5	5	8	10	13	28	33	58	72
G 52.5	0	2	2	3	4	5	7	9	11	22	25	40	52
G 55.0	0	1	1	3	3	4	6	8	10	17	19	29	37
G 57.5	0	1	1	2	3	4	6	7	9	14	16	22	28
G 60.0	0	1	1	2	2	3	5	6	8	11	14	17	22
G 62.5	0	1	1	1	2	3	4	5	7	9	12	14	18
G 65.0	0	1	1	1	1	2	4	4	6	8	10	12	15
G 67.5	0	1	1	1	1	2	3	4	5	7	9	10	13
G 70.0	1	1	1	1	1	2	3	3	5	6	8	9	11
G 72.5	0	0	0	1	1	1	2	3	4	5	7	8	9
G 75.0	0	0	0	1	1	1	2	2	4	4	6	7	8
G 77.5	0	0	0	0	1	1	2	2	3	4	5	6	7
G 80.0	0	0	0	0	0	1	1	2	3	3	4	5	6
G 82.5	0	0	0	0	0	1	1	1	2	3	4	4	6
G 85.0	0	0	0	0	0	0	1	1	2	2	3	4	5
G 87.5	0	0	0	0	0	0	1	1	2	2	3	3	4
G 90.0	0	0	0	0	0	0	1	1	1	1	3	3	4
G 92.5	0	0	0	0	0	0	0	1	1	1	2	2	3
G 95.0	0	0	0	0	0	0	0	1	1	1	2	2	3
G 97.5	0	0	0	0	0	0	0	0	1	1	1	2	2
G100.0	0	0	0	0	0	0	0	0	1	1	1	1	2
G102.5	0	0	0	0	0	0	0	0	0	1	1	1	1
G105.0	0	0	0	0	0	0	0	0	0	0	1	1	1
G107.5	0	0	0	0	0	0	0	0	0	0	0	1	1
G110.0	0	0	0	0	0	0	0	0	0	0	0	0	1
G112.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G115.0	0	0	0	0	0	0	0	0	0	0	0	0	0
G117.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G120.0	0	0	0	0	0	0	0	0	0	0	0	0	0
G122.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G125.0	0	0	0	0	0	0	0	0	0	0	0	0	0
G127.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G130.0	0	0	0	0	0	0	0	0	0	0	0	0	0
G132.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G135.0	0	0	0	0	0	0	0	0	0	0	0	0	0
G137.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G140.0	0	0	0	0	0	0	0	0	0	0	0	0	0
G142.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G145.0	0	0	0	0	0	0	0	0	0	0	0	0	0
G147.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G150.0	0	0	0	0	0	0	0	0	0	0	0	0	0
G152.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G155.0	0	0	0	0	0	0	0	0	0	0	0	0	0
G157.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G160.0	0	0	0	0	0	0	0	0	0	0	0	0	0
G162.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G165.0	0	0	0	0	0	0	0	0	0	0	0	0	0
G167.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G170.0	0	0	0	0	0	0	0	0	0	0	0	0	0
G172.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G175.0	0	0	0	0	0	0	0	0	0	0	0	0	0
G177.5	0	0	0	0	0	0	0	0	0	0	0	0	0
G180.0	0	0	0	0	0	0	0	0	0	0	0	0	0

Luminaire
Code AC37500x
Name OPTICAL GROUP BIRDIE 2,7W 20º
Measurem.
Code CL092A25D001GPE1
Name OPTICAL GROUP BIRDIE 2,7W 20º

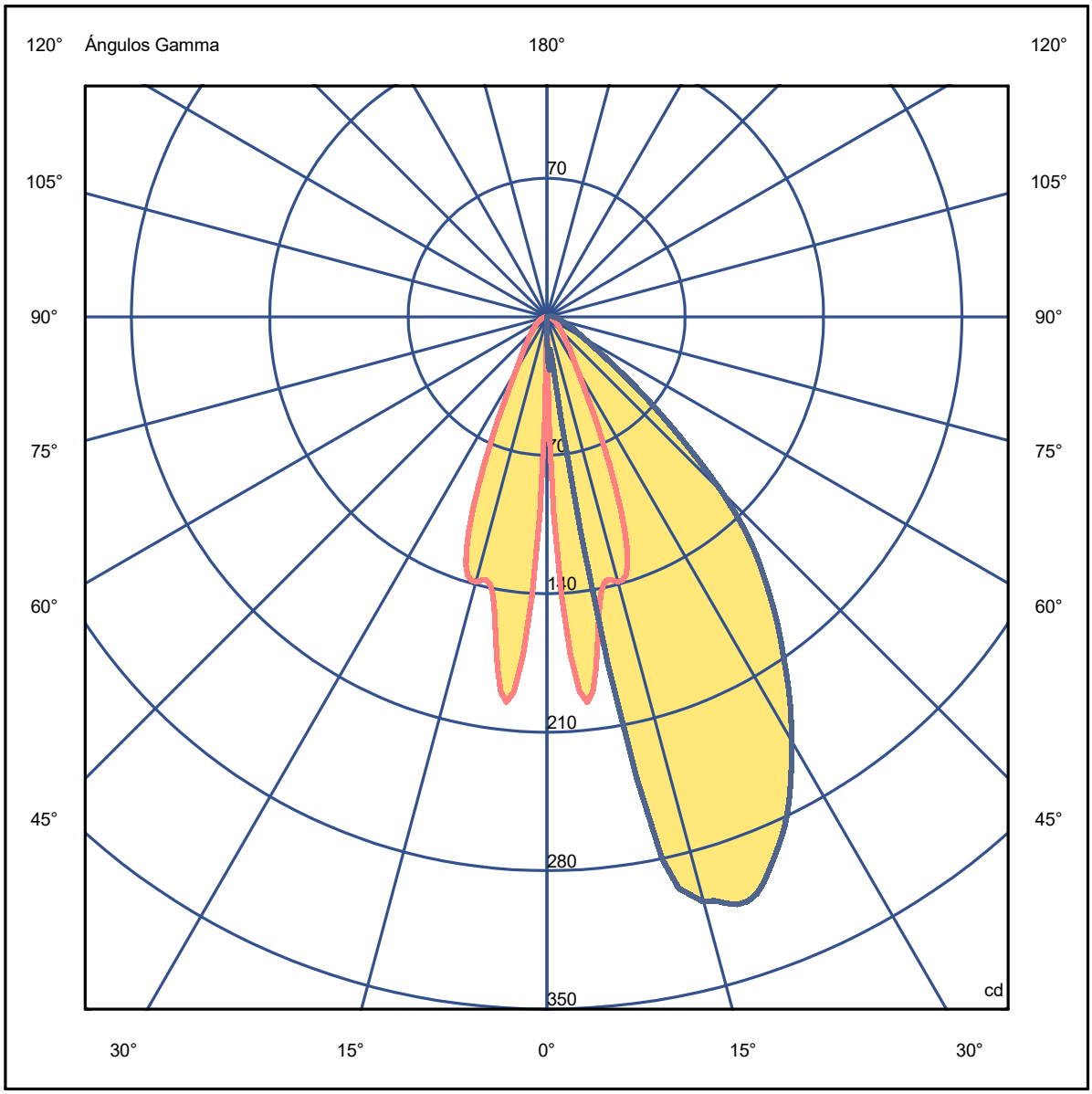
Luminaire Flux	193 lm	Luminaire Power	2.7 W	Efficacy	70.404 lm/W	Efficiency	100.00%
Source Flux	193 lm	Maximum value	314.22 cd	Position	C=75.00 G=17.50	CG	Sym. on planes 270-90

90mm x 45mm



Semiplanos C





Luminaire
Code AC37500x
Name OPTICAL GROUP BIRDIE 2,7W 20º
Measurem.
Code CL092A25D001GPE1
Name OPTICAL GROUP BIRDIE 2,7W 20º

Luminaire Flux	193 lm	Luminaire Power	2.7 W	Efficacy	70.404 lm/W	Efficiency	100.00%
Source Flux	193 lm	Maximum value	314.22 cd	Position	C=75.00 G=17.50	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	17.9	18.7	18.1	19.0	19.2	5.4	6.3	5.7	6.5	6.7
x=2H y=3H	18.2	19.0	18.5	19.2	19.5	5.8	6.6	6.1	6.8	7.1
x=2H y=4H	18.4	19.1	18.7	19.4	19.7	5.7	6.5	6.1	6.8	7.0
x=2H y=6H	18.5	19.2	18.9	19.5	19.8	5.7	6.3	6.0	6.6	6.9
x=2H y=8H	18.6	19.3	18.9	19.6	19.9	5.6	6.3	6.0	6.6	6.9
x=2H y=12H	18.7	19.3	19.0	19.6	19.9	5.6	6.2	5.9	6.5	6.9
x=4H y=2H	18.4	19.2	18.8	19.5	19.7	6.3	7.1	6.7	7.3	7.6
x=4H y=3H	19.0	19.6	19.3	19.9	20.2	6.8	7.4	7.1	7.7	8.1
x=4H y=4H	19.2	19.8	19.6	20.1	20.5	6.7	7.3	7.1	7.6	8.0
x=4H y=6H	19.5	20.0	19.9	20.3	20.7	6.6	7.1	7.1	7.5	7.9
x=4H y=8H	19.6	20.0	20.0	20.4	20.8	6.6	7.0	7.0	7.4	7.8
x=4H y=12H	19.7	20.1	20.1	20.5	20.9	6.6	6.9	7.0	7.3	7.8
x=8H y=4H	19.7	20.1	20.1	20.5	20.9	6.9	7.3	7.3	7.7	8.1
x=8H y=6H	20.1	20.4	20.6	20.9	21.3	6.8	7.2	7.3	7.6	8.0
x=8H y=8H	20.3	20.6	20.8	21.0	21.5	6.8	7.1	7.3	7.5	8.0
x=8H y=12H	20.5	20.7	21.0	21.2	21.7	6.7	7.0	7.2	7.5	8.0
x=12H y=4H	19.8	20.2	20.2	20.6	21.0	6.9	7.3	7.3	7.7	8.1
x=12H y=6H	20.3	20.6	20.8	21.1	21.5	6.8	7.1	7.3	7.6	8.0
x=12H y=8H	20.6	20.8	21.1	21.3	21.8	6.8	7.0	7.3	7.5	8.0

Luminaire
Code AC37500x
Name OPTICAL GROUP BIRDIE 2,7W 20º
Measurem.
Code CL092A25D001GPE1
Name OPTICAL GROUP BIRDIE 2,7W 20º

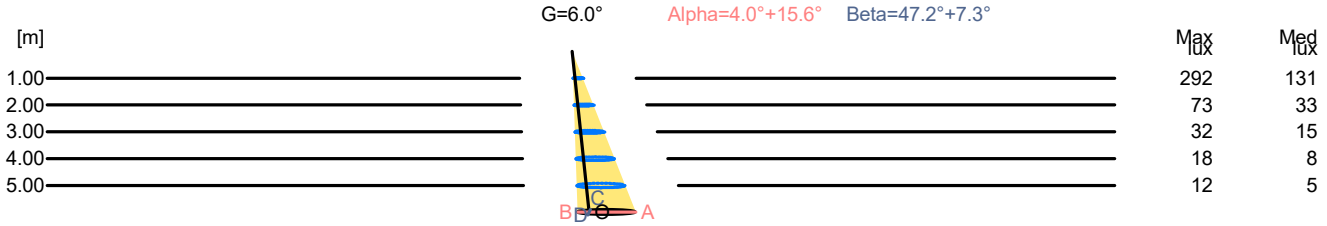
Luminaire Flux	193 lm	Luminaire Power	2.7 W	Efficacy	70.404 lm/W	Efficiency	100.00%
Source Flux	193 lm	Maximum value	314.22 cd	Position	C=75.00 G=17.50	CG	Sym. on planes 270-90

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	0.29	0.58	0.87	1.16	1.45	OC	1.08	2.17	3.25	4.34	5.42
OB	0.07	0.14	0.21	0.28	0.35	OD	0.13	0.26	0.39	0.52	0.65

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	0.21	190.16	138.54	60.86	20.68	10.48	6.46	3.66	1.84	0.72
OB	0.21	190.16	138.54	60.86	20.68	10.48	6.46	3.66	1.84	0.72
OC	0.21	23.52	306.07	284.47	208.39	125.28	37.30	15.15	8.02	4.89
OD	0.21	0.58	0.45	0.45	0.53	0.49	0.45	0.49	0.00	0.00



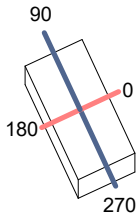
H[m]	D[m]	Max lux	Med lux	Alpha=4.0°+15.6° G=6.0
1.00	0.36	292	131	
2.00	0.72	73	33	
3.00	1.08	32	15	
4.00	1.44	18	8	
5.00	1.80	12	5	

H[m]	D[m]	Max lux	Med lux	Beta=7.3°+47.2° G=0.0
1.00	1.21	292	131	
2.00	2.43	73	33	
3.00	3.64	32	15	
4.00	4.86	18	8	
5.00	6.07	12	5	

Luminaire
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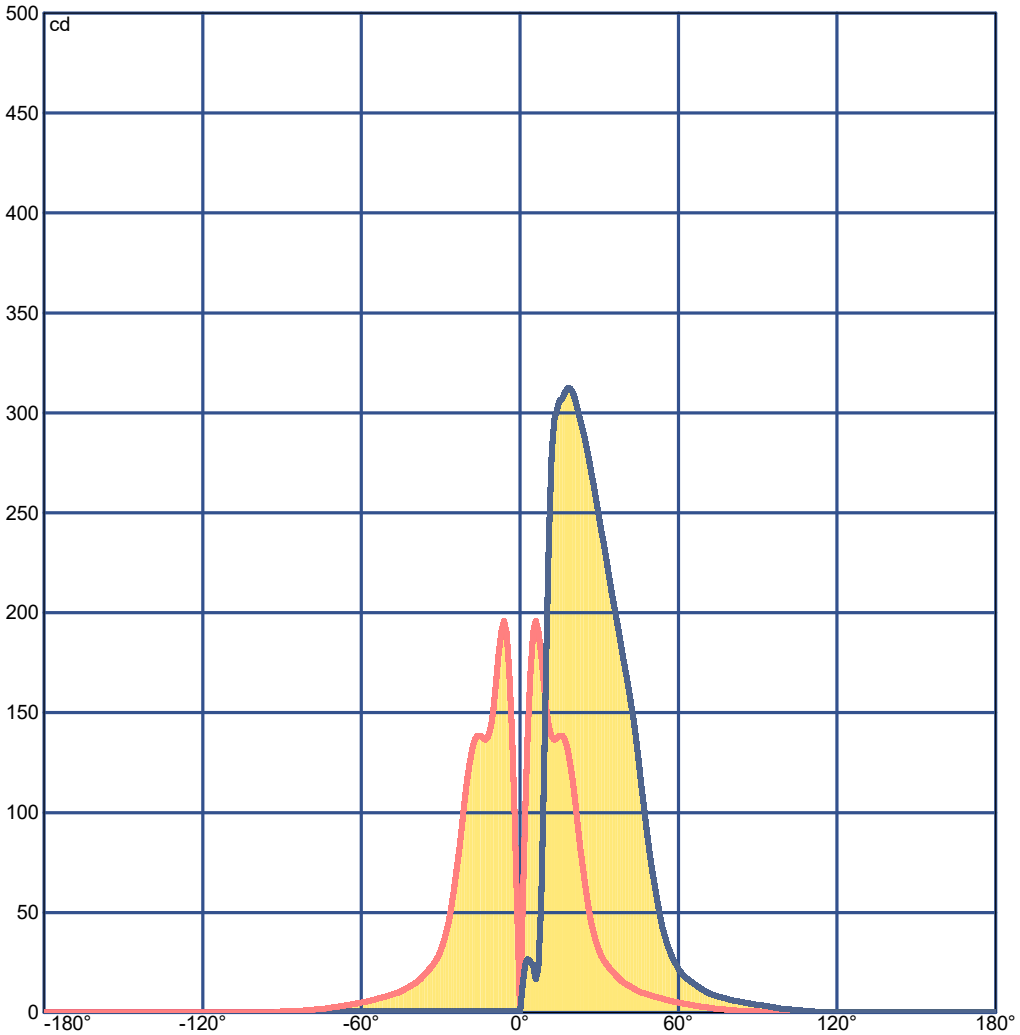
Luminaire Flux	193 lm	Luminaire Power	2.7 W	Efficacy	70.404 lm/W	Efficiency	100.00%
Source Flux	193 lm	Maximum value	314.22 cd	Position	C=75.00 G=17.50	CG	Sym. on planes 270-90

90mm x 45mm



Semiplanos C





Luminaire
Code AC37500x
Name OPTICAL GROUP BIRDIE 2,7W 20º
Measurem.
Code CL092A25D001GPE1
Name OPTICAL GROUP BIRDIE 2,7W 20º

Luminaire Flux	193 lm	Luminaire Power	2.7 W	Efficacy	70.404 lm/W	Efficiency	100.00%
Source Flux	193 lm	Maximum value	314.22 cd	Position	C=75.00 G=17.50	CG	Sym. on planes 270-90

Flujo Total=193.38 Flujo Luminaria=193.38

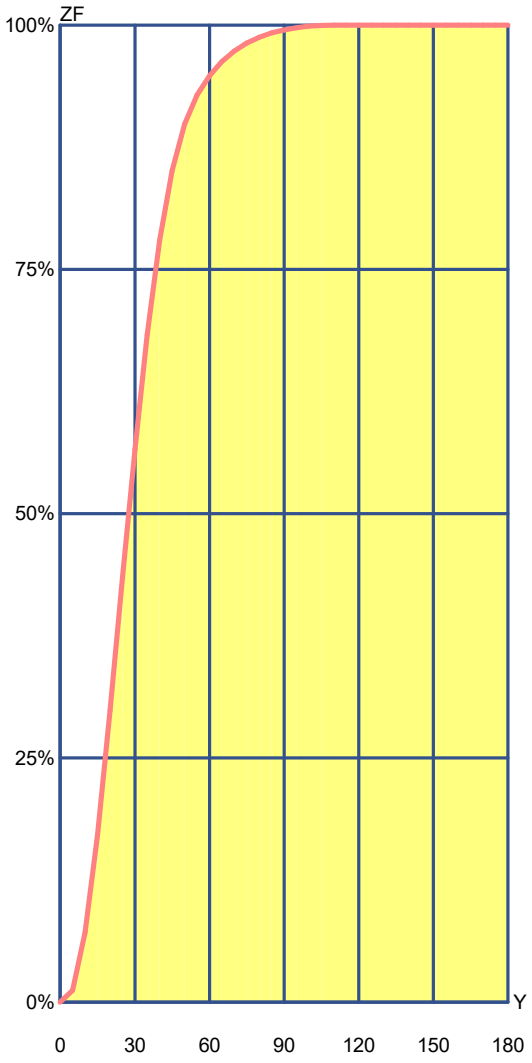
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.57	0.64	0.70	0.75	0.79	0.85	0.88	0.91	0.94	0.95	0.98	1.00
RC	-	-	-	1	1	1	1	-	-	-	-	-

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)	72	298	566	780	899	948	973	988	995	999	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.
81 95 99 100 100

C.I.E.	-/-/-/1/1/1/1/-/-/-/-/-	LOR	100.00000 %
D DIN 5040	A60	ULOR	0.48326 %
F UTE	1.00 B	DLOR	99.51674 %
B NBN	BZ 1	UFF	0.48326 %
RN	0.48326 %	DFF	99.51674 %
BLF	1.0	FFR	0.48561 %



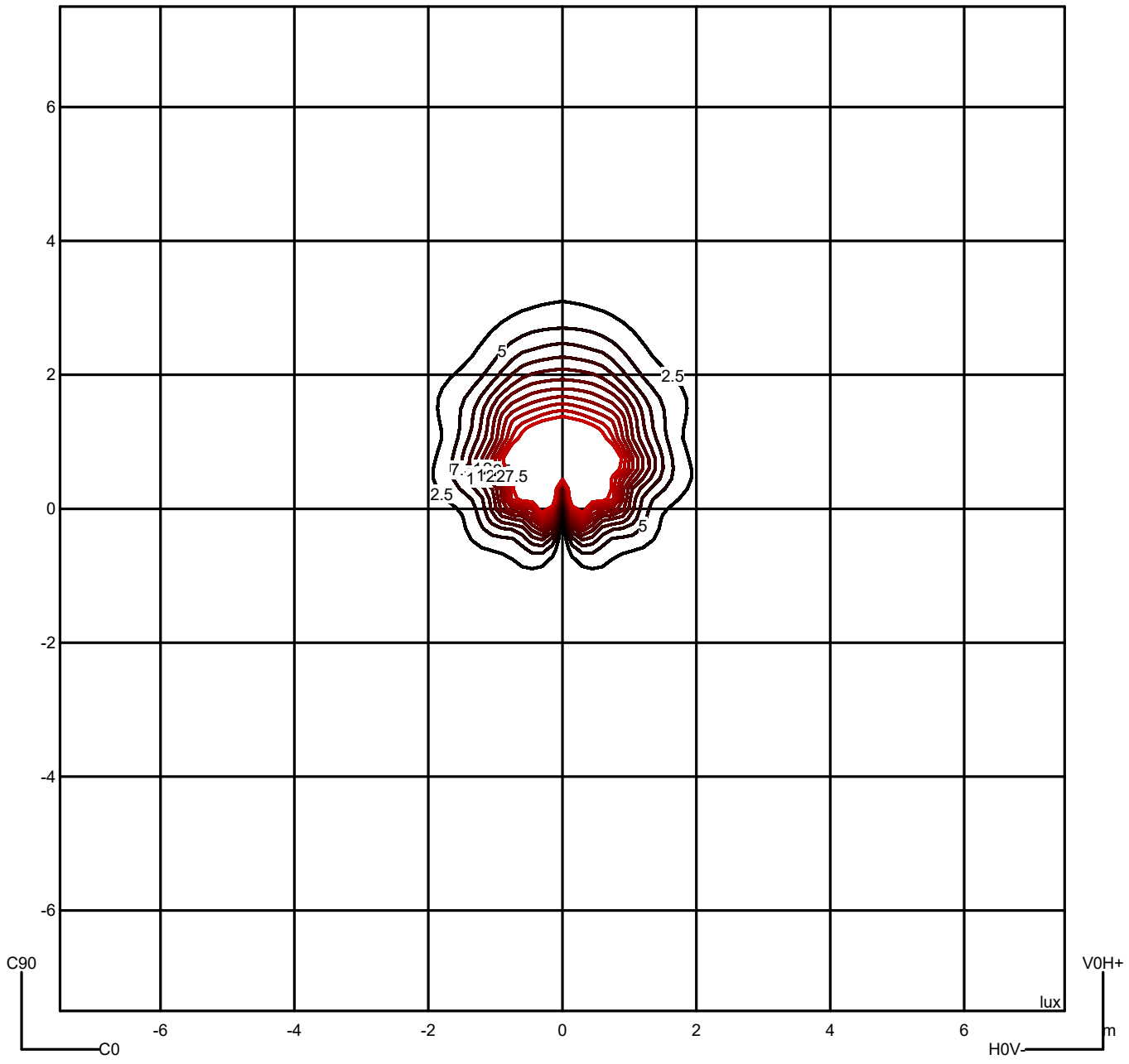
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	12.15	12.15	1.22 %	1.22 %
10°	59.41	71.56	5.94 %	7.16 %
15°	99.80	171.37	9.98 %	17.14 %
20°	126.94	298.31	12.69 %	29.83 %
25°	136.88	435.19	13.69 %	43.52 %
30°	130.76	565.95	13.08 %	56.59 %
35°	117.31	683.25	11.73 %	68.33 %
40°	96.47	779.72	9.65 %	77.97 %
45°	71.50	851.23	7.15 %	85.12 %
50°	47.53	898.75	4.75 %	89.88 %
55°	29.69	928.44	2.97 %	92.84 %
60°	19.77	948.21	1.98 %	94.82 %
65°	14.25	962.46	1.42 %	96.25 %
70°	10.88	973.34	1.09 %	97.33 %
75°	8.21	981.56	0.82 %	98.16 %
80°	6.07	987.63	0.61 %	98.76 %
85°	4.39	992.02	0.44 %	99.20 %
90°	3.15	995.17	0.32 %	99.52 %
95°	2.21	997.38	0.22 %	99.74 %
100°	1.43	998.81	0.14 %	99.88 %
105°	0.85	999.66	0.08 %	99.97 %
110°	0.32	999.98	0.03 %	100.00 %
115°	0.02	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 %

Luminaire
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Code CL092A25D001GPE1
Name OPTICAL GROUP BIRDIE 2,7W 20º

Luminaire Flux	193 lm	Luminaire Power	2.7 W	Efficacy	70.404 lm/W	Efficiency	100.00%
Source Flux	193 lm	Maximum value	314.22 cd	Position	C=75.00 G=17.50	CG	Sym. on planes 270-90

Isolux (Floor)

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



Luminaire
Code AC37500x
Name OPTICAL GROUP BIRDIE 2,7W 20º
Measurem.
Code CL092A25D001GPE1
Name OPTICAL GROUP BIRDIE 2,7W 20º

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Source Flux	193 lm	Maximum value	314.22 cd	Position	C=75.00 G=17.50	CG	Sym. on planes 270-90

Spectral Data

Std.: No import standard

CIE1931	x =0.458072	y =0.411610
CIE1960	u =0.260891	v =0.351644
CIE1976	u'=0.260891	v'=0.527467
D(u,v)	0.00053	

Color rendering index (CRI)
Color Rendering Components

CCT = [2733 K]*

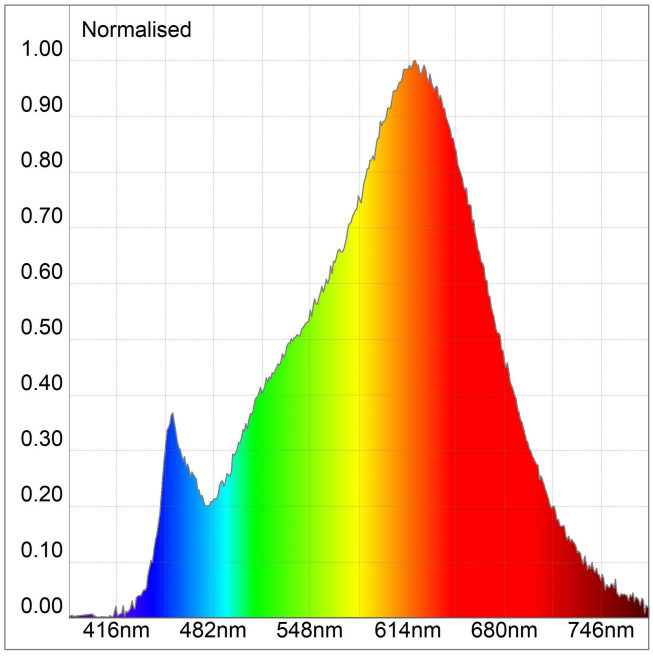
CRI8(Ra) [92.5]* CRI15(Rav) [89.9]*

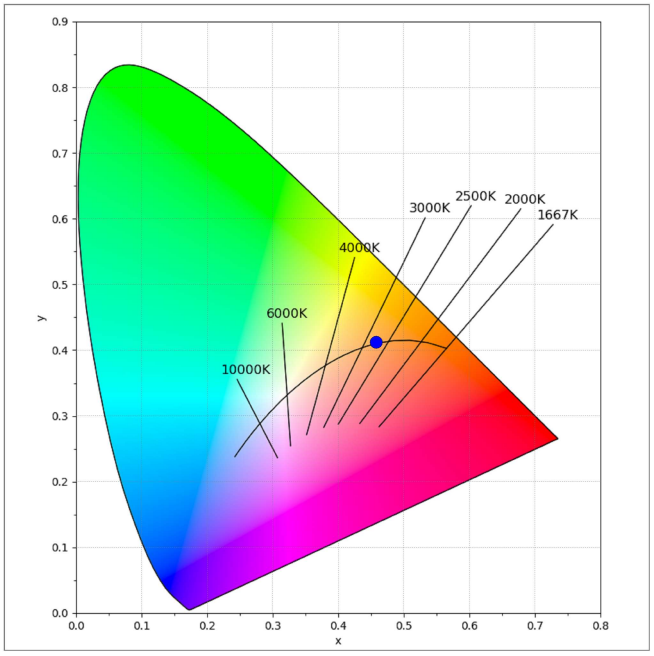
R 1: 92.9	R 2: 97.5	R 3: 98.4	R 4: 92.4	R 5: 92.9
R 6: 97.3	R 7: 90.1	R 8: 78.8	R 9: 54.7	R10: 93.4
R11: 94.1	R12: 84.2	R13: 94.3	R14: 99.8	R15: 87.7

Spectral Distribution

l(nm)	Normalised	l(nm)	Normalised	l(nm)	Normalised
383.0	0.000814	389.0	0.003191	395.0	0.005202
401.0	0.002465	407.0	0.001744	413.0	0.001062
419.0	0.007419	425.0	0.016589	431.0	0.039690
437.0	0.078295	443.0	0.148837	449.0	0.308527
455.0	0.349612	461.0	0.281395	467.0	0.262016
473.0	0.215504	479.0	0.201550	485.0	0.221705
491.0	0.258915	497.0	0.296124	503.0	0.334884
509.0	0.372093	515.0	0.403101	521.0	0.428682
527.0	0.452713	533.0	0.493023	539.0	0.508527
545.0	0.528682	551.0	0.572868	557.0	0.584496
563.0	0.617829	569.0	0.656589	575.0	0.707752
581.0	0.757364	587.0	0.806202	593.0	0.844961
599.0	0.891473	605.0	0.945736	611.0	0.968992
617.0	0.984496	623.0	0.976744	629.0	0.961240
635.0	0.953488	641.0	0.899225	647.0	0.844961
653.0	0.775194	659.0	0.710078	665.0	0.638760
671.0	0.576744	677.0	0.510853	683.0	0.458140
689.0	0.393023	695.0	0.330233	701.0	0.286047
707.0	0.247287	713.0	0.196899	719.0	0.165116
725.0	0.146512	731.0	0.116279	737.0	0.098450
743.0	0.081395	749.0	0.069457	755.0	0.060155
761.0	0.043101	767.0	0.041008	773.0	0.031163
779.0	0.019380				

Spectrum Graph

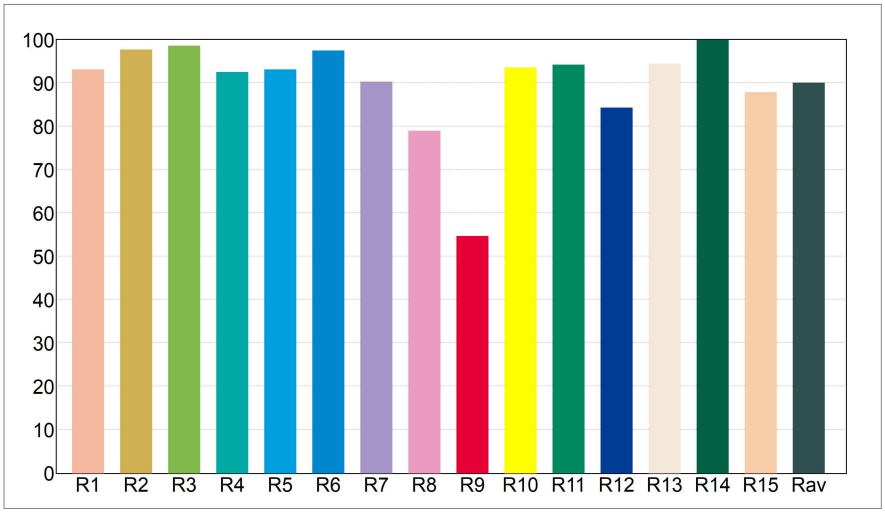


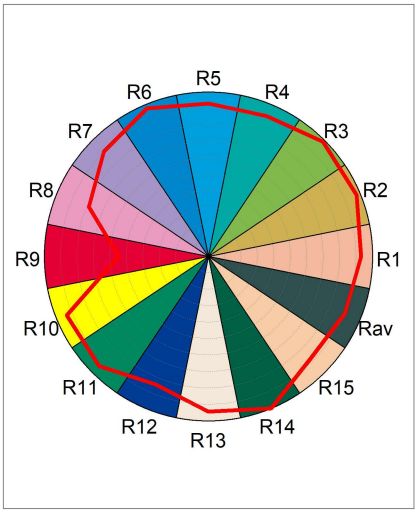


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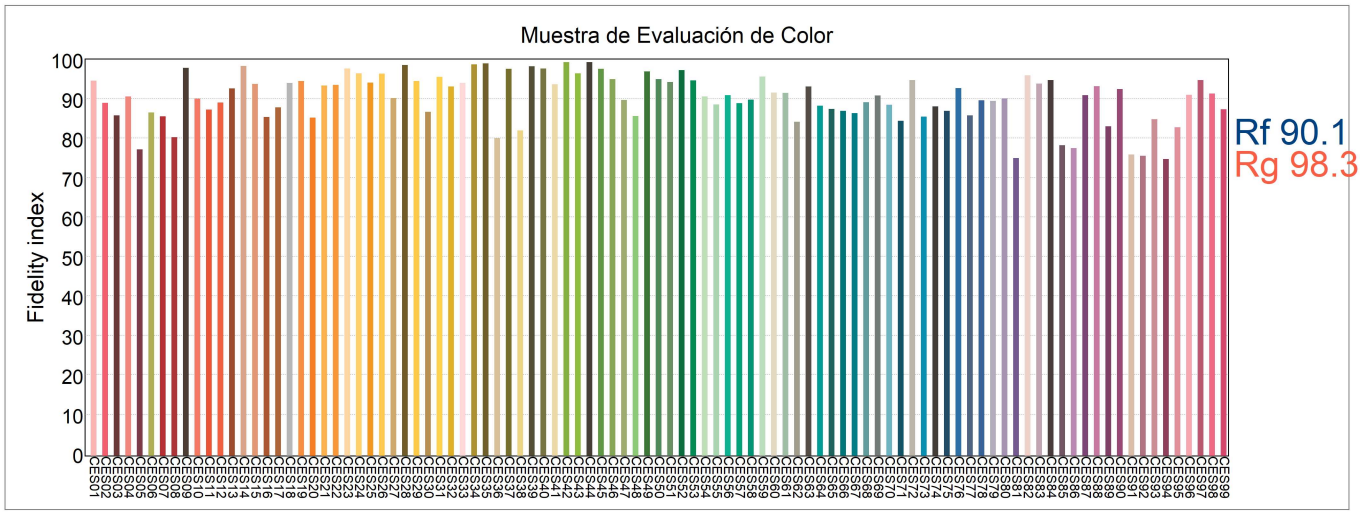
CRI Graphs



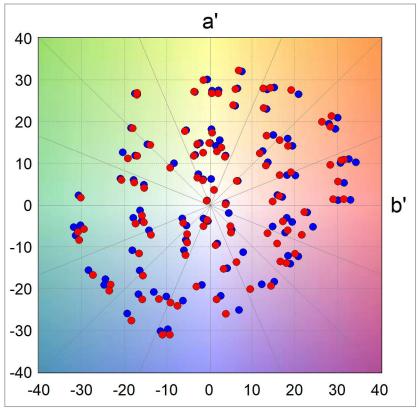


Luminaire
Code AC37500x
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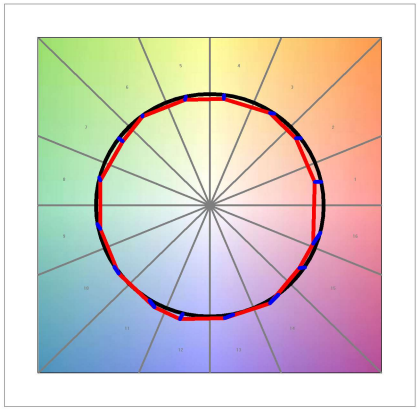
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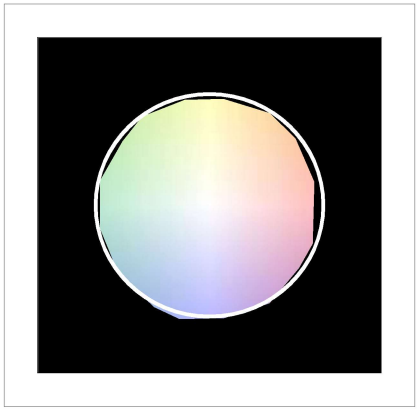
Chromatic Coordinates (a', b') 99 CES



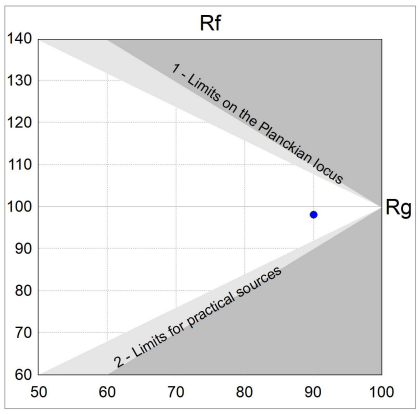
Color Vector Graphic



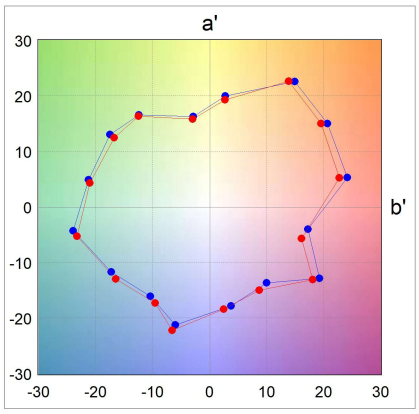
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

