Luminaire

Code	AC37510x
Name	OPTICAL GROUP BIRDIE 5,4W 20º
Line	

Measurem.

Code	CL092A25D010GPE1
Name	OPTICAL GROUP BIRDIE 5,4W 20º

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	180°
Measurement Distance	6.49m	Measurement Flux	480.2 lm
Maximum	1673.02 cd/klm	Position	C=90.0° G=20.0°
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

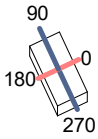
Horizontal Luminous Area	0.002800 m2	Emitting area on Plane 180°	0.000000 m2
Emitting area on Plane 0°	0.000000 m2	Emitting area on Plane 270°	0.000000 m2
Emitting area on Plane 90°	0.000000 m2	Glare area at 76°	0.000677 m2

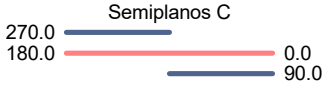
Photometric Assessment

Luminaire Flux	480.2 lm	Source Flux	480.2 lm
Efficacy	88.872 lm/W	Efficiency	100.0 %
CIE Flux Codes	82 97 99 100 100	D DIN 5040	A60
F UTE	1.00 B	B NBN	BZ 1

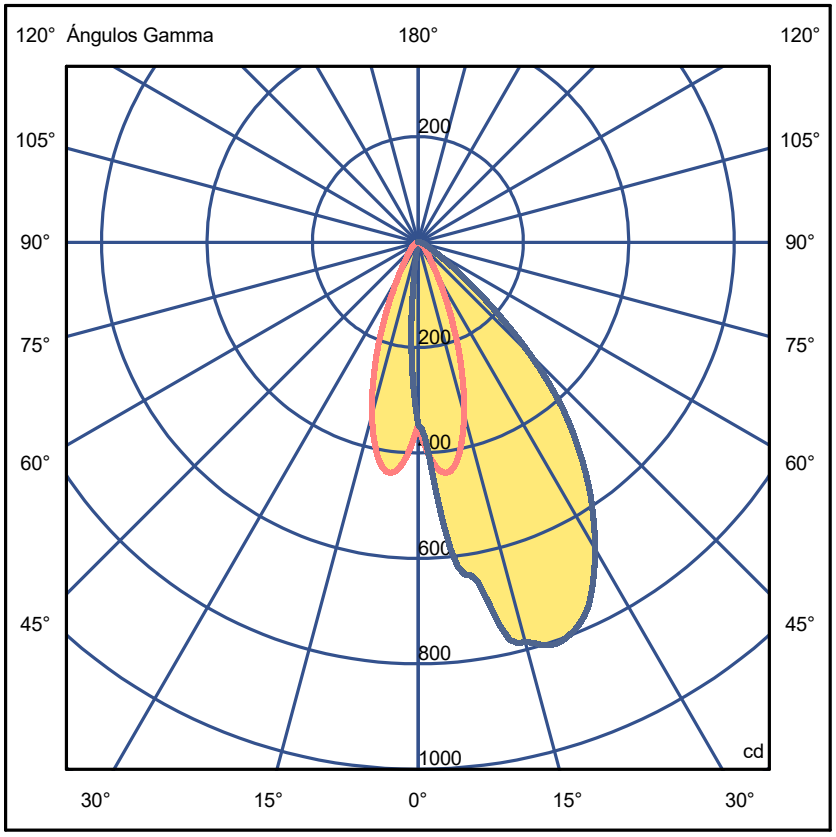


160mm x 80mm





ULOR 0.20 %
DLOR 99.80 %
RN 0.20 %



Luminaire
Code AC37510x
Name OPTICAL GROUP BIRDIE 5,4W 20º
Measurem.
Code CL092A25D010GPE1
Name OPTICAL GROUP BIRDIE 5,4W 20º

Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.872 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90

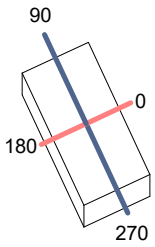
Luminous Intensity Table cd **Table 1/1**

	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	346	346	346	346	346	346	346	346	346	346	346	346	346
G 2.5	249	270	296	325	353	378	397	410	416	417	413	403	387
G 5.0	142	188	240	293	345	393	432	462	488	512	528	533	530
G 7.5	40	113	189	261	324	385	441	492	542	583	575	566	631
G 10.0	8	77	151	224	289	351	423	496	568	629	628	571	654
G 12.5	5	57	114	165	222	301	385	478	574	655	712	720	762
G 15.0	3	42	83	123	168	243	337	444	561	664	739	776	785
G 17.5	2	31	61	89	128	187	285	399	533	662	752	792	802
G 20.0	2	23	45	65	93	143	231	347	492	644	752	798	803
G 22.5	1	18	34	49	68	107	180	292	441	617	748	790	789
G 25.0	1	15	26	37	51	80	136	235	387	582	730	762	763
G 27.5	1	12	21	28	39	59	100	185	334	540	695	720	721
G 30.0	1	10	17	23	31	45	74	141	283	488	642	670	673
G 32.5	1	9	15	19	25	35	56	106	231	428	574	614	619
G 35.0	0	8	13	16	21	29	43	79	182	362	500	555	564
G 37.5	0	6	11	14	18	24	34	60	139	297	426	492	505
G 40.0	0	5	9	12	16	20	28	46	105	231	350	424	445
G 42.5	0	4	8	10	14	17	23	37	79	172	275	350	376
G 45.0	0	4	6	9	12	15	20	30	60	125	205	275	299
G 47.5	0	3	5	7	10	13	17	25	45	88	147	201	222
G 50.0	0	3	4	6	8	11	15	22	36	64	104	140	157
G 52.5	0	2	4	5	7	9	13	19	29	48	73	97	106
G 55.0	0	2	3	4	6	8	11	17	24	37	53	68	74
G 57.5	0	1	2	3	5	6	9	15	21	29	39	49	53
G 60.0	0	1	2	2	4	5	8	13	18	24	31	37	39
G 62.5	0	0	1	2	3	4	7	11	16	20	25	29	31
G 65.0	0	0	1	1	2	3	6	9	14	18	21	24	25
G 67.5	0	0	0	1	1	3	4	8	12	15	18	20	21
G 70.0	0	0	0	0	1	2	4	6	10	13	15	17	18
G 72.5	0	0	0	0	0	1	3	5	8	11	13	15	16
G 75.0	0	0	0	0	0	1	2	4	7	9	11	13	13
G 77.5	0	0	0	0	0	0	1	3	6	8	9	11	11
G 80.0	0	0	0	0	0	0	1	3	5	6	8	9	10
G 82.5	0	0	0	0	0	0	1	2	4	5	6	8	8
G 85.0	0	0	0	0	0	0	0	1	3	4	5	6	7
G 87.5	0	0	0	0	0	0	0	1	2	3	4	5	6
G 90.0	0	0	0	0	0	0	0	0	1	3	4	4	5
G 92.5	0	0	0	0	0	0	0	0	1	2	3	3	4
G 95.0	0	0	0	0	0	0	0	0	1	1	2	3	3
G 97.5	0	0	0	0	0	0	0	0	0	1	2	2	2
G100.0	0	0	0	0	0	0	0	0	0	0	1	1	2
G102.5	0	0	0	0	0	0	0	0	0	0	1	1	1
G105.0	0	0	0	0	0	0	0	0	0	0	0	1	1
G107.5	0	0	0	0	0	0	0	0	0	0	0	0	1
G110.0	0	0	0	0	0	0	0	0	0	0	0	0	0
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 AC37510x
Name OPTICAL GROUP BIRDIE 5,4W 20º
Measurem.
Code CL092A25D010GPE1
Name OPTICAL GROUP BIRDIE 5,4W 20º

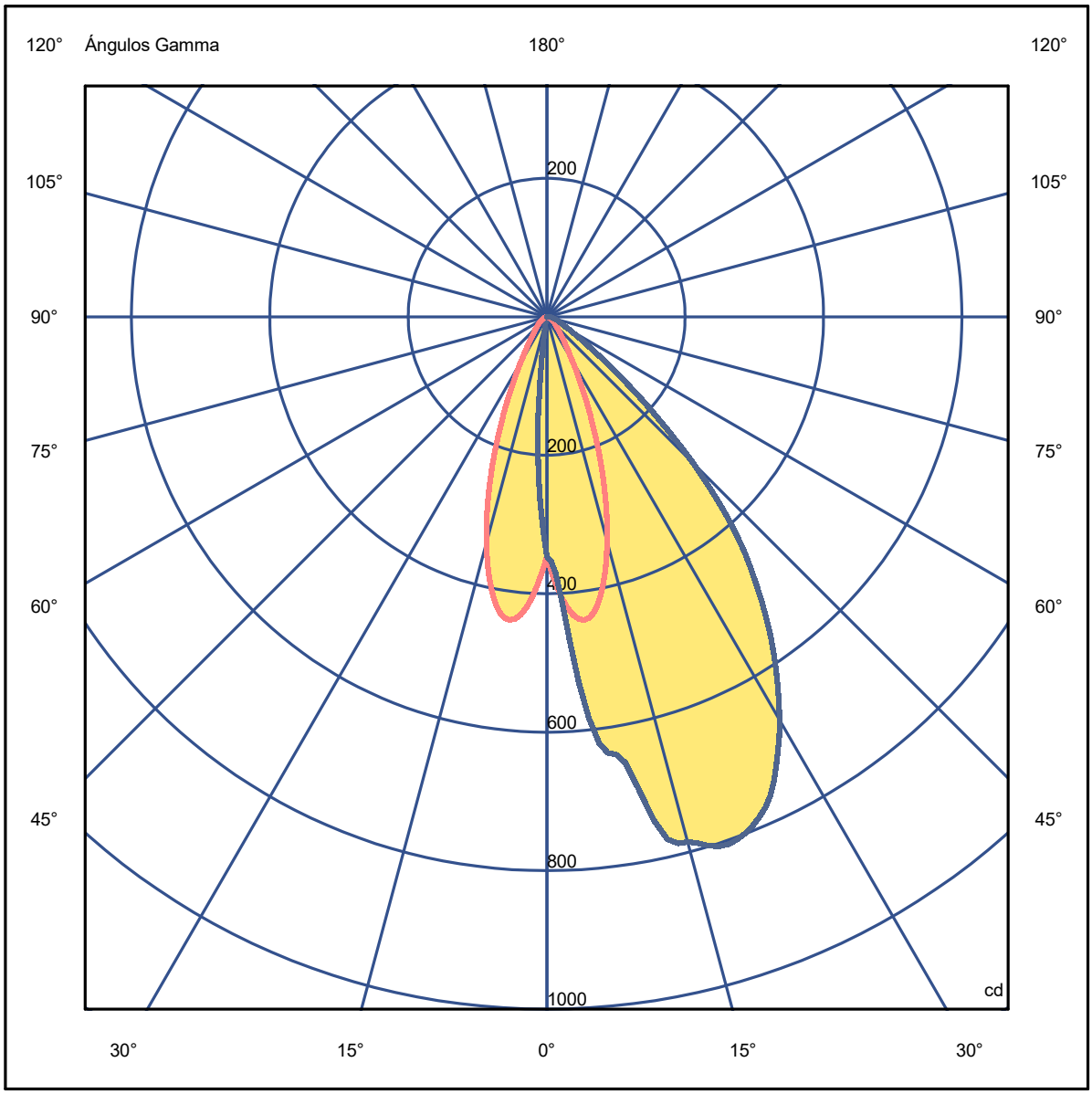
Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.872 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90

160mm x 80mm



Semiplanos C





Luminaire
Code AC37510x
Name OPTICAL GROUP BIRDIE 5,4W 20º
Measurem.
Code CL092A25D010GPE1
Name OPTICAL GROUP BIRDIE 5,4W 20º

Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.872 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=90.00 G=20.00	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	18.0	18.8	18.3	19.0	19.3	2.6	3.4	2.9	3.6	3.9
x=2H y=3H	18.1	18.9	18.4	19.1	19.4	2.4	3.2	2.7	3.5	3.7
x=2H y=4H	18.1	18.8	18.4	19.1	19.4	2.4	3.1	2.7	3.3	3.6
x=2H y=6H	18.1	18.8	18.4	19.0	19.3	2.3	2.9	2.6	3.2	3.5
x=2H y=8H	18.1	18.7	18.4	19.0	19.3	2.2	2.9	2.6	3.2	3.5
x=2H y=12H	18.0	18.6	18.4	18.9	19.3	2.2	2.8	2.6	3.1	3.4
x=4H y=2H	18.5	19.2	18.8	19.4	19.7	3.2	3.9	3.5	4.2	4.5
x=4H y=3H	18.7	19.3	19.1	19.6	20.0	3.1	3.7	3.4	4.0	4.3
x=4H y=4H	18.9	19.4	19.2	19.7	20.1	3.0	3.5	3.4	3.9	4.2
x=4H y=6H	18.9	19.4	19.3	19.7	20.1	2.9	3.4	3.3	3.7	4.1
x=4H y=8H	18.9	19.3	19.3	19.7	20.1	2.9	3.3	3.3	3.7	4.1
x=4H y=12H	18.9	19.2	19.3	19.6	20.1	2.8	3.2	3.3	3.6	4.0
x=8H y=4H	19.2	19.6	19.6	19.9	20.3	2.9	3.3	3.3	3.7	4.1
x=8H y=6H	19.3	19.7	19.8	20.1	20.5	2.9	3.2	3.3	3.6	4.0
x=8H y=8H	19.4	19.7	19.9	20.1	20.6	2.8	3.1	3.3	3.5	4.0
x=8H y=12H	19.4	19.6	19.9	20.1	20.6	2.7	3.0	3.2	3.5	3.9
x=12H y=4H	19.2	19.6	19.7	20.0	20.4	2.9	3.2	3.3	3.7	4.1
x=12H y=6H	19.5	19.8	20.0	20.2	20.7	2.8	3.1	3.3	3.5	4.0
x=12H y=8H	19.6	19.8	20.1	20.3	20.8	2.7	3.0	3.2	3.5	3.9

Luminaire
Code AC37510x
Name OPTICAL GROUP BIRDIE 5,4W 20º
Measurem.
Code CL092A25D010GPE1
Name OPTICAL GROUP BIRDIE 5,4W 20º

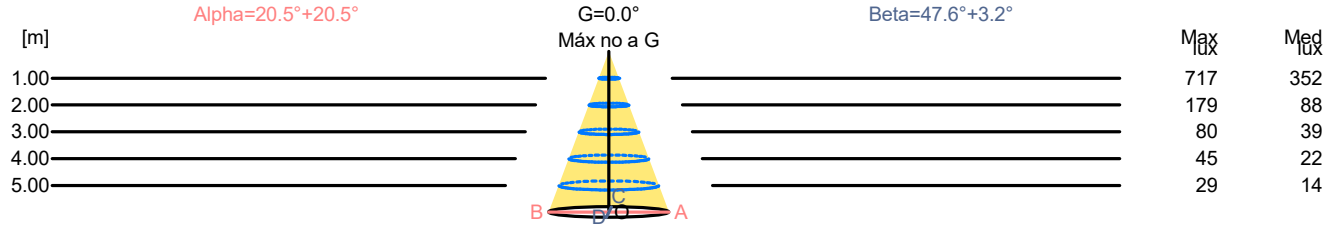
Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.872 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90

Width at 50.00 % of Max Intensity

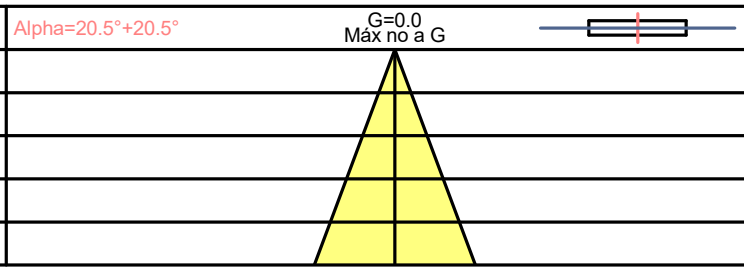
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	0.37	0.75	1.12	1.50	1.87	OC	1.09	2.19	3.28	4.38	5.47
OB	0.37	0.75	1.12	1.50	1.87	OD	0.06	0.11	0.17	0.22	0.28

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	346.26	431.87	336.51	135.90	42.96	19.92	11.12	5.53	2.07	0.19
OB	346.26	431.87	336.51	135.90	42.96	19.92	11.12	5.53	2.07	0.19
OC	346.26	530.00	785.08	763.33	564.35	299.22	73.66	25.01	13.49	6.78
OD	346.26	142.09	3.26	0.93	0.49	0.25	0.10	0.04	0.00	0.00



H[m]	D[m]	Max lux	Med lux
1.00	0.75	717	352
2.00	1.50	179	88
3.00	2.24	80	39
4.00	2.99	45	22
5.00	3.74	29	14



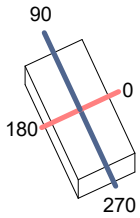
H[m]	D[m]	Max lux	Med lux
1.00	1.15	717	352
2.00	2.30	179	88
3.00	3.45	80	39
4.00	4.60	45	22
5.00	5.75	29	14



Luminaire
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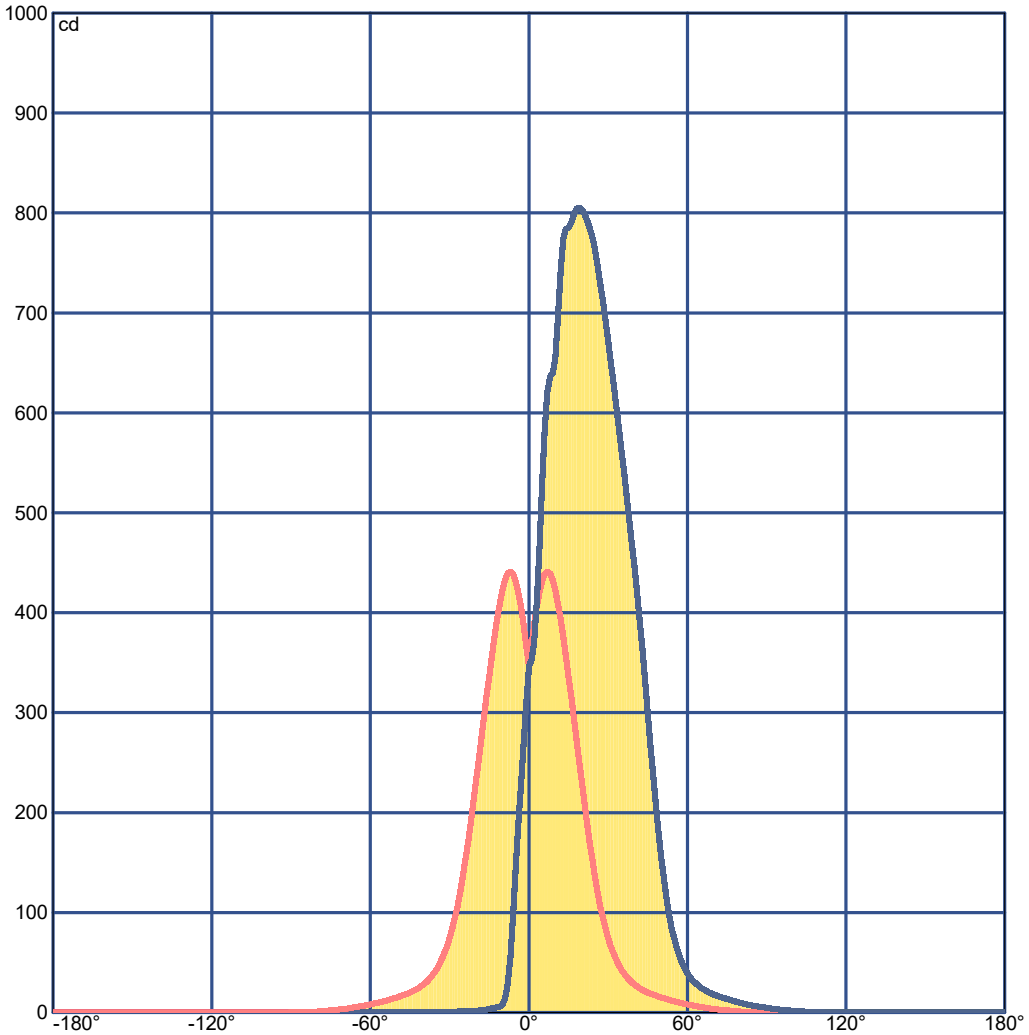
Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.872 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90

160mm x 80mm



Semiplanos C





Luminaire
Code AC37510x
Name OPTICAL GROUP BIRDIE 5,4W 20º
Measurem.
Code CL092A25D010GPE1
Name OPTICAL GROUP BIRDIE 5,4W 20º

Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.872 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90

Flujo Total=480.23 Flujo Luminaria=480.23

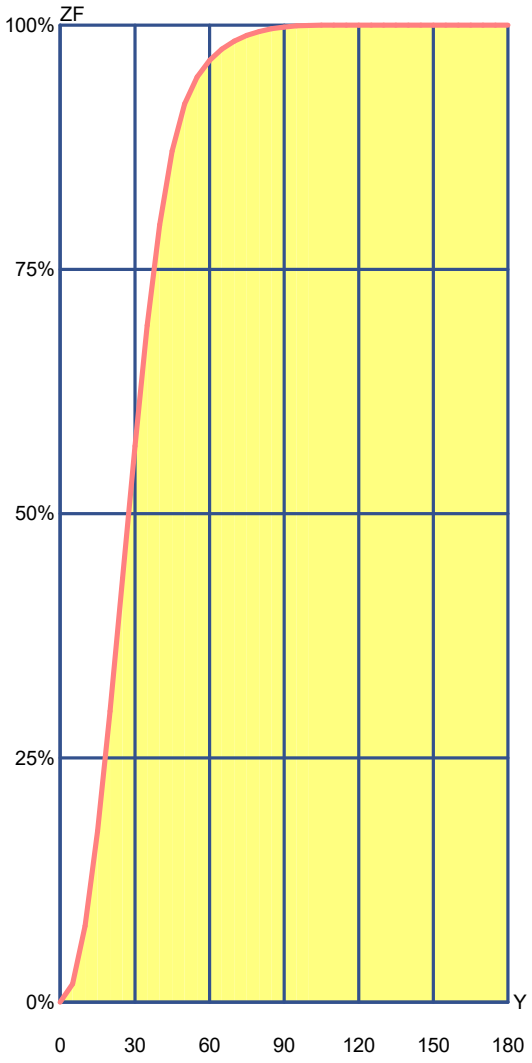
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.58	0.65	0.71	0.76	0.80	0.86	0.89	0.92	0.94	0.96	0.98	1.00
RC	-	-	-	-	-	-	-	-	-	-	-	-

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)	78	298	569	795	919	964	983	993	998	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.
82 97 99 100 100

C.I.E.	-/-/-/-/-/-/-/-/-/-/-	LOR	100.00000 %
D DIN 5040	A60	ULOR	0.19665 %
F UTE	1.00 B	DLOR	99.80335 %
B NBN	BZ 1	UFF	0.19665 %
RN	0.19665 %	DFF	99.80335 %
BLF	1.0	FFR	0.19704 %



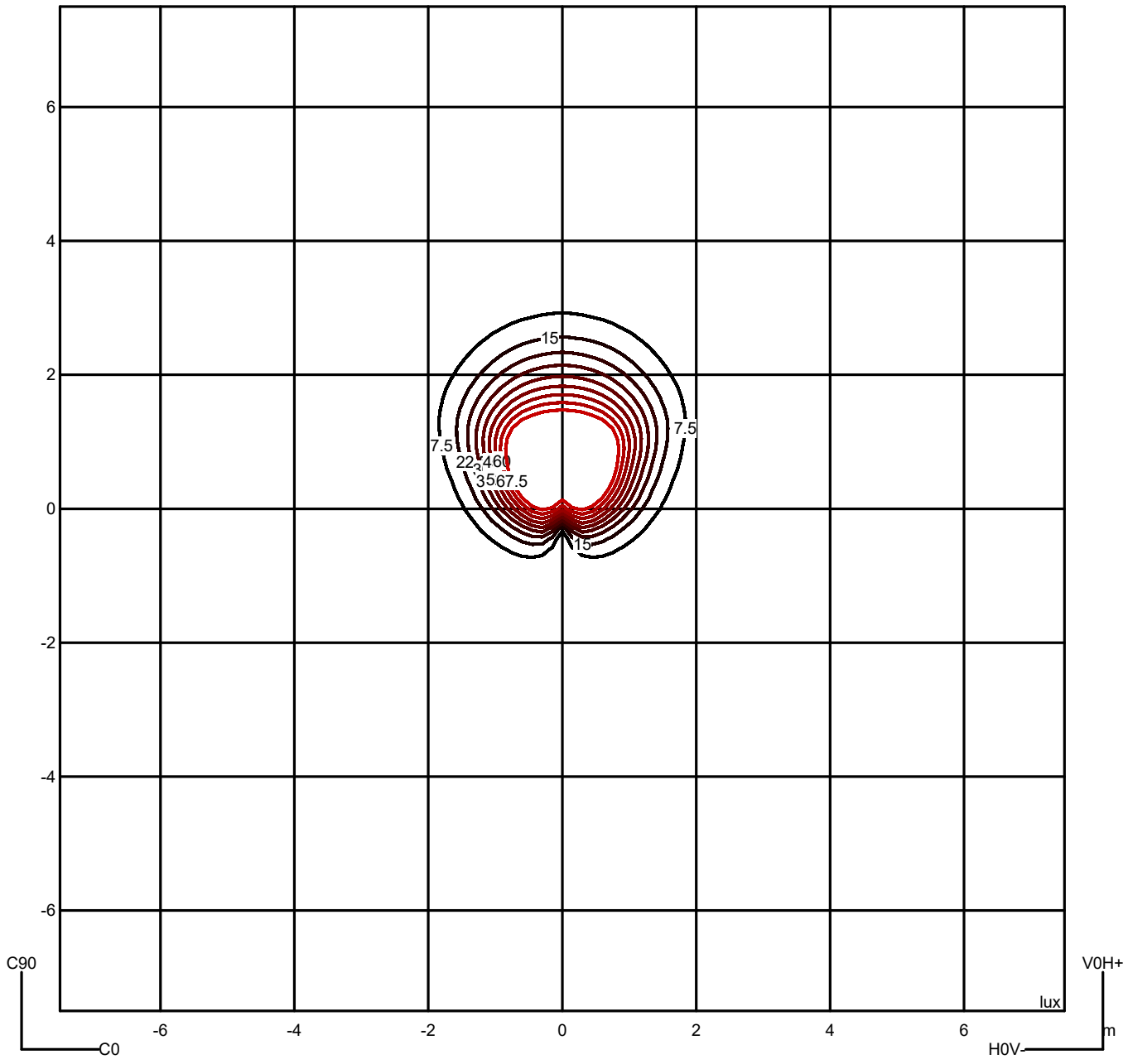
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	18.67	18.67	1.87 %	1.87 %
10°	59.27	77.94	5.93 %	7.79 %
15°	96.90	174.84	9.69 %	17.48 %
20°	123.06	297.90	12.31 %	29.79 %
25°	135.65	433.55	13.56 %	43.35 %
30°	135.58	569.13	13.56 %	56.91 %
35°	123.62	692.75	12.36 %	69.28 %
40°	102.61	795.36	10.26 %	79.54 %
45°	75.81	871.17	7.58 %	87.12 %
50°	48.04	919.21	4.80 %	91.92 %
55°	27.77	946.98	2.78 %	94.70 %
60°	16.90	963.88	1.69 %	96.39 %
65°	11.38	975.26	1.14 %	97.53 %
70°	8.15	983.41	0.81 %	98.34 %
75°	5.88	989.29	0.59 %	98.93 %
80°	4.13	993.41	0.41 %	99.34 %
85°	2.80	996.21	0.28 %	99.62 %
90°	1.82	998.03	0.18 %	99.80 %
95°	1.09	999.12	0.11 %	99.91 %
100°	0.56	999.68	0.06 %	99.97 %
105°	0.24	999.93	0.02 %	99.99 %
110°	0.07	999.99	0.01 %	100.00 %
115°	0.01	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
Code AC37510x
Name OPTICAL GROUP BIRDIE 5,4W 20º
Measurem.
Code CL092A25D010GPE1
Name OPTICAL GROUP BIRDIE 5,4W 20º

Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.872 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=90.00 G=20.00	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=90.00 G=20.00	CG	Sym. on planes 270-90

Spectral Data

Std.: No import standard

CIE1931	x =0.457132	y =0.412934	Color rendering index (CRI)
CIE1960	u =0.259699	v =0.351885	Color Rendering Components
CIE1976	u'=0.259699	v'=0.527828	
D(u,v)	0.00110		

CCT = [2757 K]*

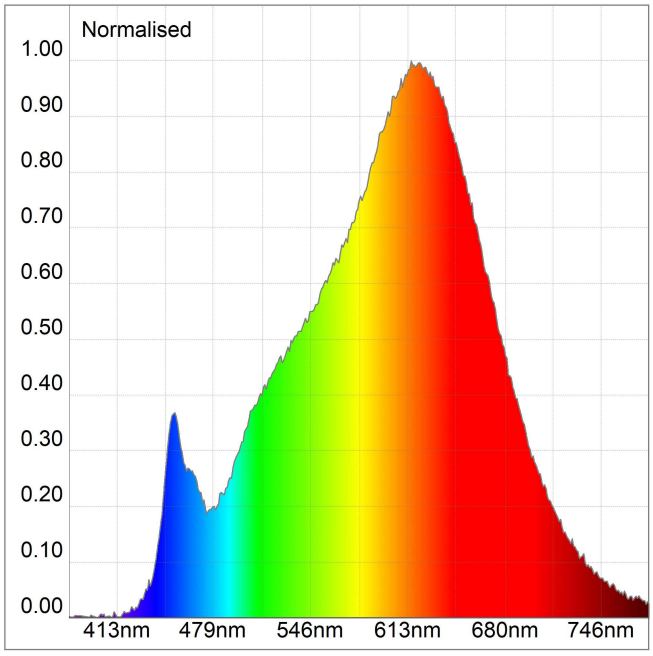
CRI8(Ra) [92.6]* CRI15(Rav) [89.8]*

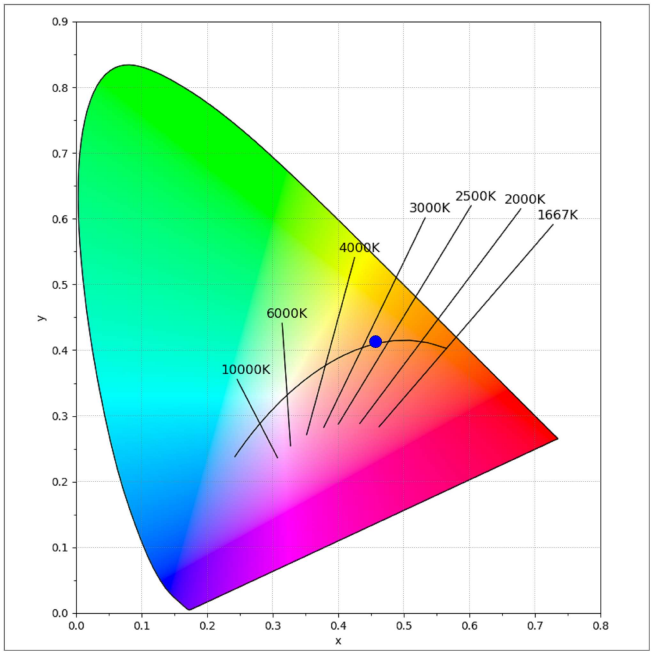
R 1: 92.7	R 2: 96.9	R 3: 99.1	R 4: 92.7	R 5: 92.6
R 6: 97.0	R 7: 90.8	R 8: 79.4	R 9: 55.1	R10: 92.2
R11: 94.4	R12: 83.3	R13: 93.8	R14: 99.5	R15: 87.5

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

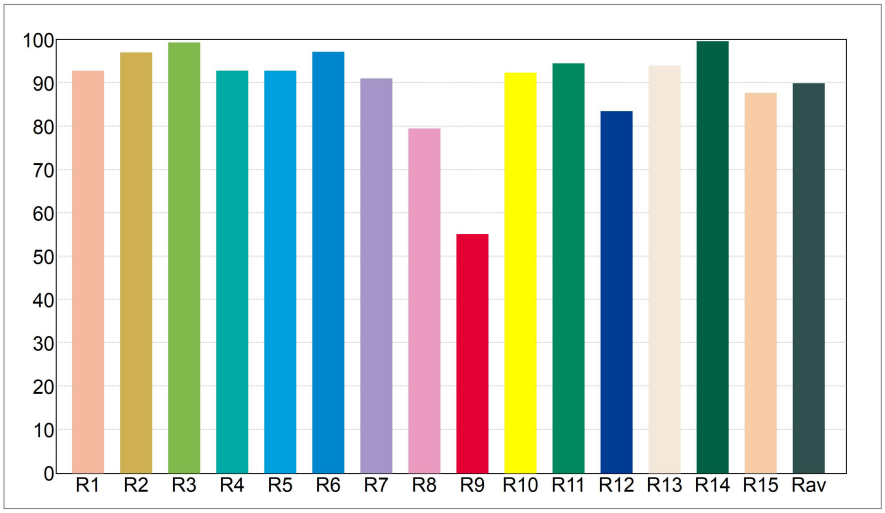


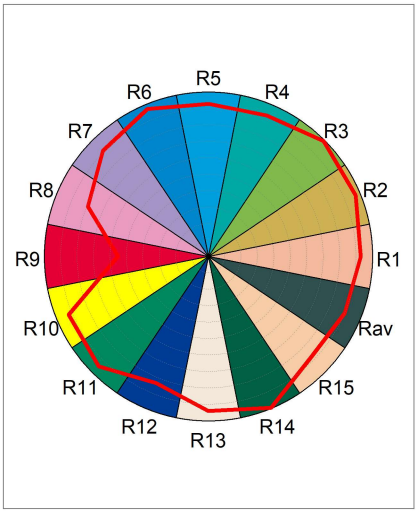


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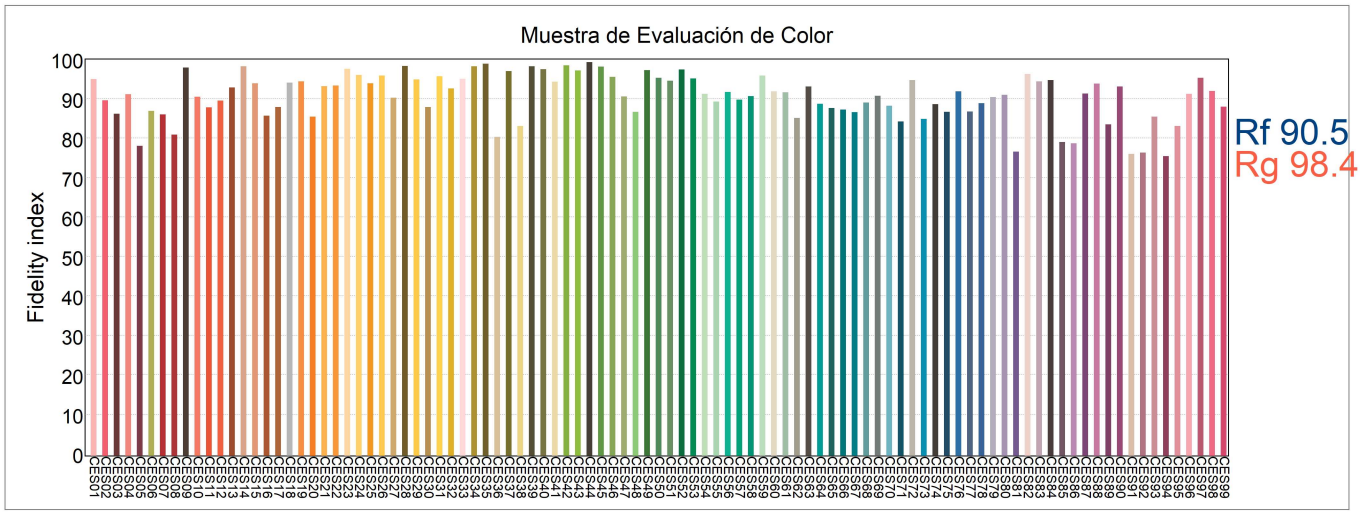
CRI Graphs



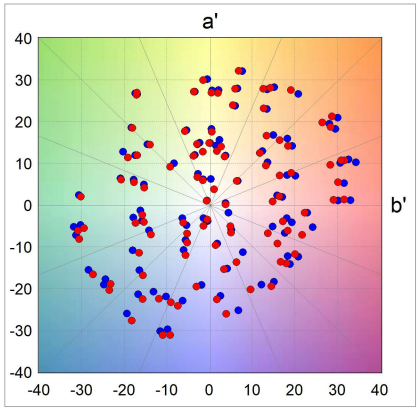


Luminaire
Code AC37510x
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Measurem.
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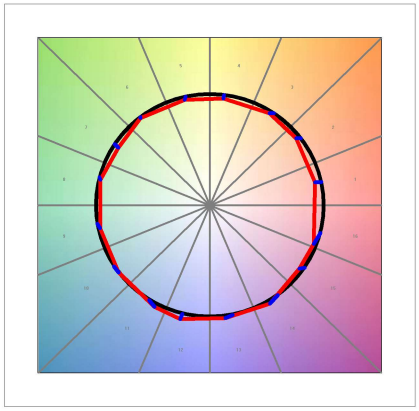
Luminaire Flux	480 lm	Luminaire Power	5.4 W	Efficacy	88.872 lm/W	Efficiency	100.00%
Source Flux	480 lm	Maximum value	803.43 cd	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90



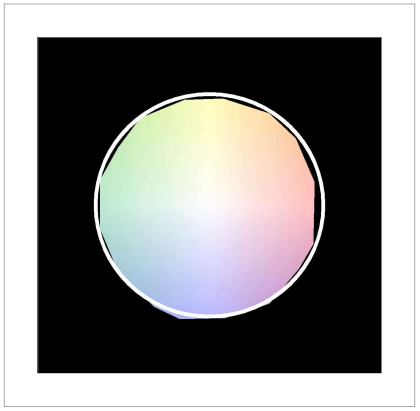
Chromatic Coordinates (a', b') 99 CES



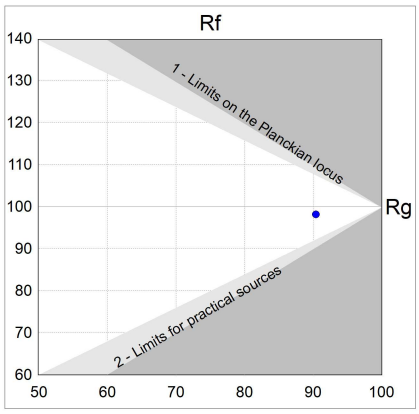
Color Vector Graphic



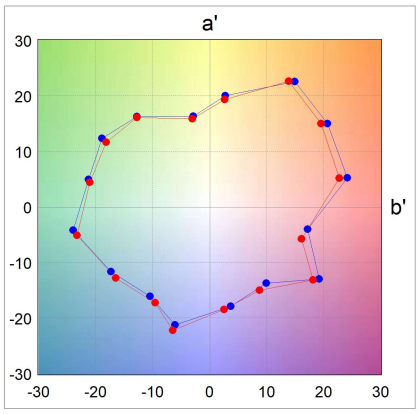
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

