Luminaire
Code 37001xxx127
Name PERRIS BROWN OPTIC SET
Measurem.
Code CL092A23D002GP
Name PERRIS BROWN OPTIC SET

Luminaire Flux	911.24 lm	Luminaire Power	17.60 W	Efficacy	51.77 lm/W	Efficiency	100.00%
Sources Flux	911.24 lm	Maximum value	513.34 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

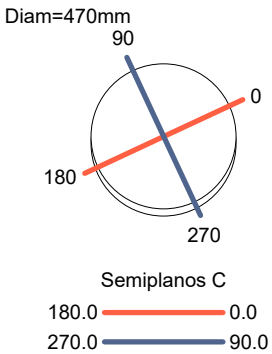
Round Luminaire	Diam. 470 mm	Height	210 mm
Round Luminous Area	Diam. 470 mm	Height	210 mm
Horizontal Luminous Area	0.173494 m2	Emitting area on Plane 180°	0.098700 m2
Emitting area on Plane 0°	0.098700 m2	Emitting area on Plane 270°	0.098700 m2
Emitting area on Plane 90°	0.098700 m2	Glare area at 76°	0.137740 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	30-01-2023	Maximum Gamma Angle	180
Measurement Distance	6.44	Measurement Flux	911.24 lm
Operator	Asselum T2	Rated Voltage	25.10 V
Temperature	24.60 °C	Rated Current	0.70 A
Humidity	17.80 %	Photocell	Czibula Grundmann
Notes	RM22122106		

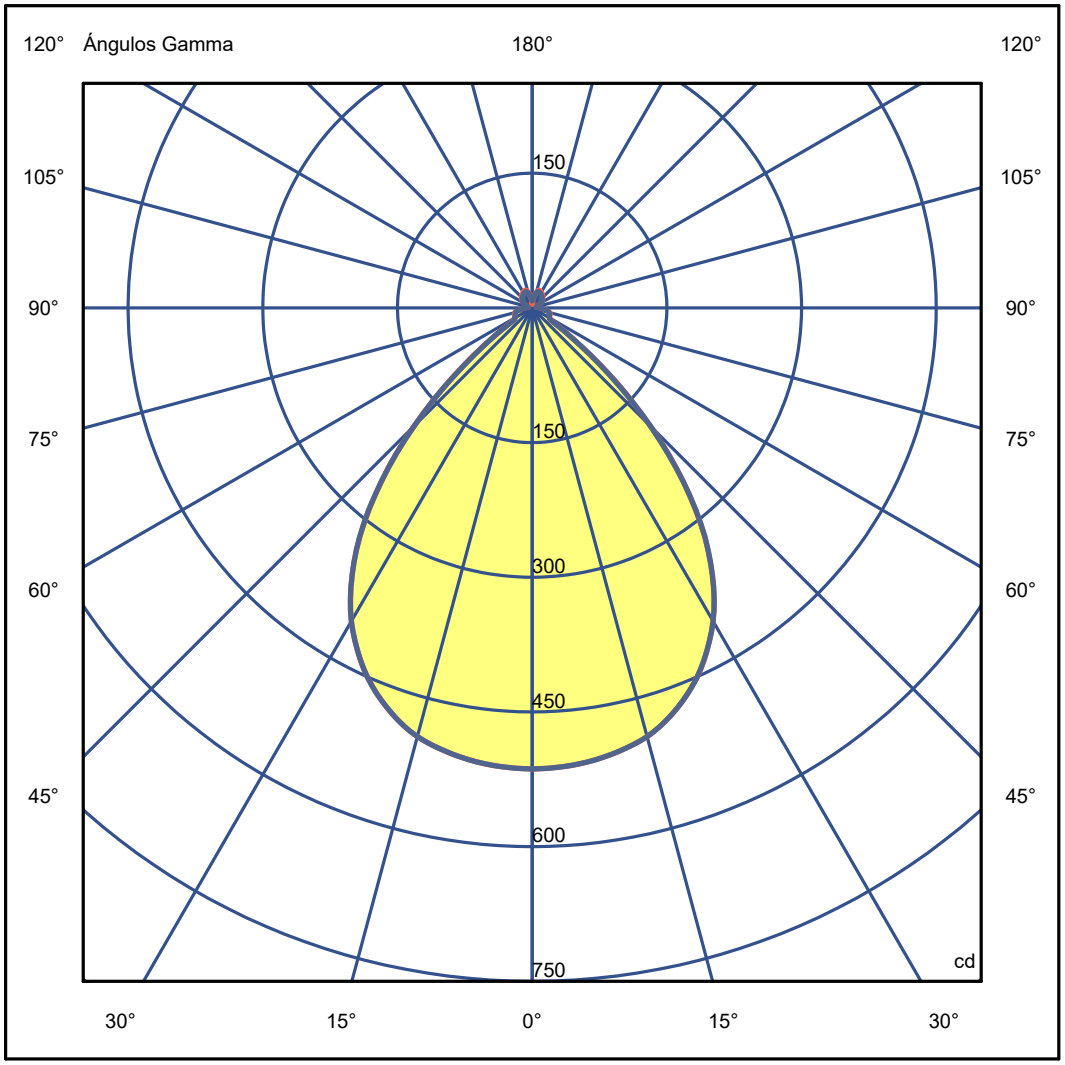
Luminaire Sources

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	LED	LED	911.24	17.60	1

C.I.E.	75 93 97 92 100	D DIN 5040	A61
F UTE	0.92 B + 0.08 T	B NBN	BZ 2







ULOR 7.66 %
DLOR 92.34 %
RN 7.66 %

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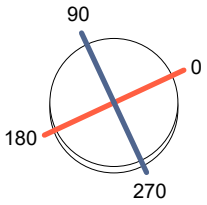
Luminous Intensity Table cd **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	513.3	513.3	513.3	513.3	513.3	513.3	513.3
G 2.5	512.7	512.9	512.8	512.8	512.8	512.8	512.8
G 5.0	511.3	511.2	511.3	511.2	511.3	511.3	511.1
G 7.5	508.6	508.6	508.8	508.6	508.7	508.7	508.7
G 10.0	505.1	505.0	505.1	505.0	505.0	505.1	504.9
G 12.5	500.3	500.1	500.4	500.2	500.4	500.2	500.3
G 15.0	494.2	493.5	494.1	493.3	494.1	493.4	494.2
G 17.5	485.2	484.6	485.1	484.3	485.0	484.5	485.1
G 20.0	473.7	473.1	473.7	473.1	473.5	473.1	473.4
G 22.5	459.8	459.2	459.9	459.3	459.8	459.6	460.1
G 25.0	444.0	443.1	443.7	442.9	443.7	442.9	443.7
G 27.5	424.5	423.9	424.5	423.7	424.3	424.2	424.4
G 30.0	402.9	401.4	402.1	400.4	402.1	401.5	402.9
G 32.5	376.3	374.9	375.4	373.6	375.9	375.3	376.7
G 35.0	346.2	344.8	344.8	343.0	345.2	345.3	346.3
G 37.5	311.8	309.7	310.1	307.7	309.8	309.3	312.6
G 40.0	272.5	270.7	270.6	268.6	270.2	271.0	273.1
G 42.5	231.5	229.3	228.1	225.8	227.7	229.1	230.6
G 45.0	186.5	186.1	183.6	182.0	183.3	186.2	186.4
G 47.5	143.0	142.9	139.6	139.0	138.1	141.6	141.3
G 50.0	101.1	102.2	96.8	98.2	96.1	100.3	98.3
G 52.5	63.8	67.0	60.7	63.9	59.9	66.1	62.1
G 55.0	36.7	41.7	34.8	39.9	34.1	41.2	34.9
G 57.5	23.6	28.0	23.1	27.3	22.7	27.9	22.7
G 60.0	22.3	22.4	22.4	22.3	22.1	22.1	21.9
G 62.5	21.9	21.8	21.7	21.7	21.5	21.4	21.6
G 65.0	21.5	21.4	21.2	21.0	20.9	20.9	20.9
G 67.5	21.3	21.1	20.8	20.5	20.4	20.5	20.4
G 70.0	21.1	20.8	20.4	20.3	20.2	20.1	20.2
G 72.5	20.7	20.3	20.1	19.9	19.9	19.7	19.9
G 75.0	20.0	19.5	19.6	19.4	19.4	19.1	19.4
G 77.5	18.7	18.3	18.4	18.4	18.5	18.1	18.4
G 80.0	16.9	16.7	16.9	16.9	17.0	16.8	16.8
G 82.5	14.8	14.7	14.8	14.7	14.9	14.9	14.9
G 85.0	12.5	12.5	12.7	12.6	12.9	12.5	12.8
G 87.5	10.2	10.7	10.3	10.9	10.4	10.8	10.4
G 90.0	8.6	8.9	8.8	9.1	8.9	9.0	8.8
G 92.5	7.5	7.6	7.6	7.8	7.7	7.6	7.6
G 95.0	6.5	6.6	6.6	6.7	6.7	6.7	6.7
G 97.5	5.6	5.7	5.7	5.8	5.7	5.8	5.7
G100.0	4.9	5.1	5.0	5.1	5.1	5.2	5.0
G102.5	4.5	4.8	4.5	4.6	4.6	4.8	4.7
G105.0	4.5	4.8	4.3	4.4	4.5	4.8	4.6
G107.5	5.0	5.2	4.4	4.5	4.9	5.3	5.0
G110.0	5.9	5.9	5.0	5.1	5.7	6.1	6.0
G112.5	7.3	7.0	6.2	6.1	6.9	7.2	7.4
G115.0	8.6	8.3	7.5	7.4	8.1	8.4	8.6
G117.5	9.9	9.5	8.7	8.7	9.3	9.6	9.9
G120.0	11.1	10.7	10.0	10.0	10.4	10.7	11.0
G122.5	12.3	11.9	11.3	11.1	11.5	11.7	12.2
G125.0	13.5	13.0	12.6	12.3	12.5	12.6	13.2
G127.5	14.4	14.0	13.6	13.2	13.3	13.4	13.8
G130.0	15.2	14.9	14.4	14.1	13.9	14.0	14.4
G132.5	15.9	15.6	15.1	14.7	14.4	14.6	15.0
G135.0	16.6	16.3	15.8	15.3	15.0	15.2	15.5
G137.5	17.3	16.9	16.4	15.9	15.6	15.9	16.1
G140.0	17.9	17.5	16.9	16.5	16.3	16.5	16.6
G142.5	18.6	18.1	17.4	17.1	17.0	17.1	17.1
G145.0	19.2	18.7	17.8	17.7	17.7	17.6	17.6
G147.5	19.8	19.1	18.3	18.2	18.3	18.2	18.1
G150.0	20.2	19.4	18.7	18.7	18.9	18.7	18.5
G152.5	20.6	19.7	18.9	18.9	19.5	19.1	19.0
G155.0	20.9	19.9	18.8	19.0	19.9	19.4	19.4
G157.5	21.2	20.0	18.7	18.6	20.0	19.3	19.5
G160.0	21.0	19.5	18.4	18.3	19.3	18.7	19.4
G162.5	20.0	18.7	18.4	17.8	17.9	17.6	18.4
G165.0	18.5	17.8	17.8	16.6	16.0	16.4	16.8
G167.5	16.4	16.4	16.2	14.9	14.3	15.1	15.2
G170.0	14.2	14.2	13.7	13.4	13.1	13.6	13.5
G172.5	11.7	11.8	11.2	11.4	11.6	12.4	12.3
G175.0	8.3	9.0	8.5	8.4	9.4	10.0	10.8
G177.5	4.2	6.3	6.8	7.2	7.6	8.5	8.4
G180.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0

Luminaire
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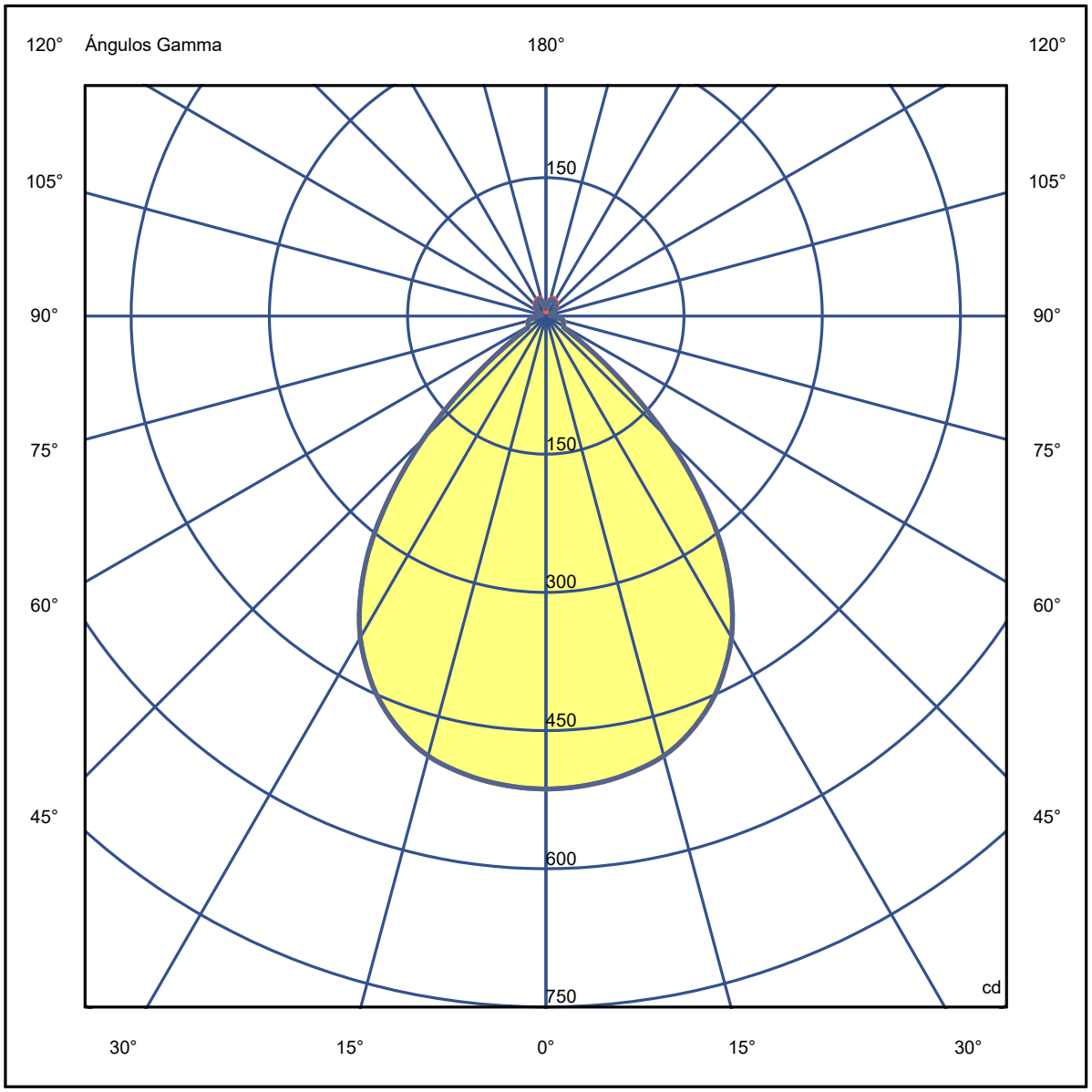
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Sources Flux	911.24 lm	Maximum value	513.34 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=470mm



Semiplanos C

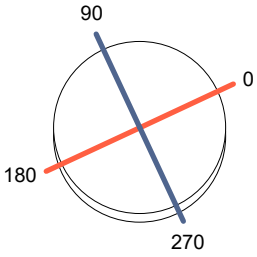
180.0 0.0
270.0 90.0



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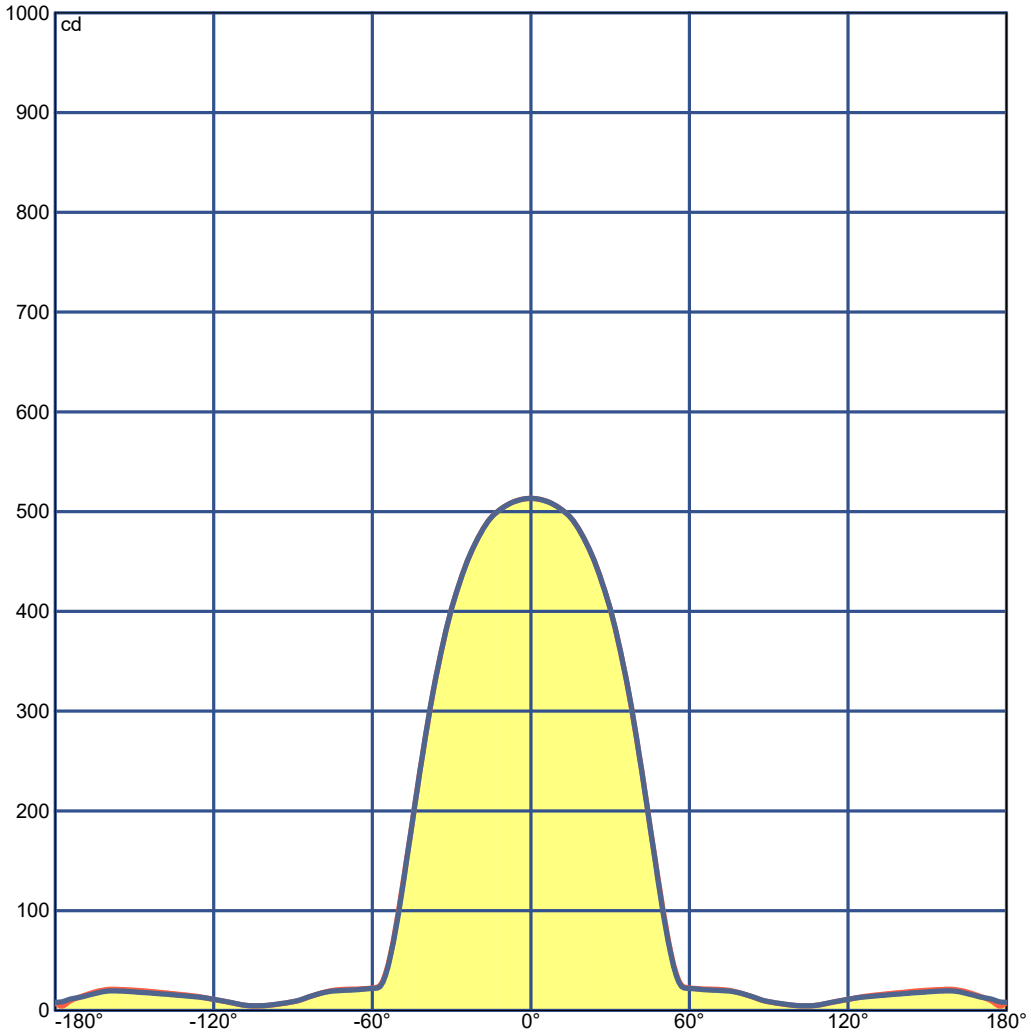
Luminaire Flux	911.24 lm	Luminaire Power	17.60 W	Efficacy	51.77 lm/W	Efficiency	100.00%
Sources Flux	911.24 lm	Maximum value	513.34 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=470mm



Semiplanos C





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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
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	8.1	9.0	8.5	9.4	9.7	8.1	9.0	8.5	9.3	9.7
x=2H y=3H	8.2	9.0	8.6	9.4	9.8	8.2	9.0	8.6	9.4	9.8
x=2H y=4H	8.3	9.1	8.8	9.5	9.9	8.3	9.0	8.7	9.4	9.9
x=2H y=6H	8.5	9.2	9.0	9.6	10.1	8.5	9.2	8.9	9.6	10.0
x=2H y=8H	8.6	9.3	9.1	9.7	10.1	8.5	9.2	9.0	9.6	10.1
x=2H y=12H	8.7	9.3	9.1	9.7	10.2	8.6	9.3	9.1	9.7	10.2
x=4H y=2H	8.0	8.7	8.4	9.1	9.5	7.9	8.7	8.4	9.1	9.5
x=4H y=3H	8.2	8.8	8.7	9.3	9.7	8.1	8.8	8.6	9.2	9.7
x=4H y=4H	8.4	9.0	8.9	9.4	9.9	8.4	8.9	8.9	9.4	9.9
x=4H y=6H	8.7	9.2	9.3	9.7	10.3	8.7	9.2	9.2	9.7	10.2
x=4H y=8H	8.9	9.3	9.4	9.8	10.4	8.8	9.3	9.4	9.8	10.4
x=4H y=12H	9.0	9.4	9.6	9.9	10.5	9.0	9.4	9.5	9.9	10.5
x=8H y=4H	8.5	8.9	9.0	9.4	10.0	8.4	8.9	9.0	9.4	9.9
x=8H y=6H	8.9	9.3	9.5	9.8	10.4	8.9	9.2	9.5	9.8	10.4
x=8H y=8H	9.2	9.5	9.7	10.0	10.7	9.1	9.4	9.7	10.0	10.6
x=8H y=12H	9.4	9.6	10.0	10.2	10.9	9.3	9.6	10.0	10.2	10.9
x=12H y=4H	8.7	9.1	9.3	9.6	10.2	8.7	9.1	9.2	9.6	10.2
x=12H y=6H	9.2	9.5	9.8	10.0	10.7	9.1	9.4	9.7	10.0	10.6
x=12H y=8H	9.4	9.7	10.0	10.3	10.9	9.4	9.6	10.0	10.2	10.9

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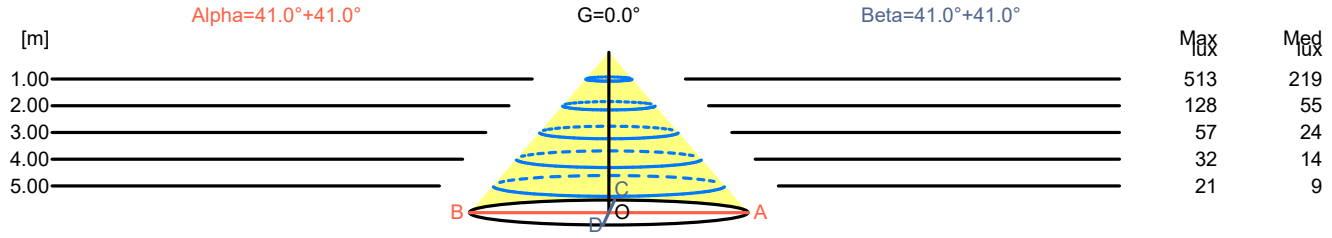
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Sources Flux	911.24 lm	Maximum value	513.34 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	0.87	1.74	2.61	3.48	4.34	OC	0.87	1.74	2.61	3.47	4.34
OB	0.87	1.74	2.61	3.48	4.34	OD	0.87	1.74	2.61	3.47	4.34

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	513.34	511.29	494.21	443.99	346.17	186.49	36.71	21.51	20.00	12.54
OB	513.34	511.29	494.21	443.99	346.17	186.49	36.71	21.51	20.00	12.54
OC	513.34	511.11	494.18	443.72	346.28	186.44	34.94	20.91	19.35	12.75
OD	513.34	511.11	494.18	443.72	346.28	186.44	34.94	20.91	19.35	12.75



H[m]	D[m]	Max lux	Med lux	Alpha=41.0°+41.0° G=0.0
1.00	1.74	513	219	
2.00	3.48	128	55	
3.00	5.21	57	24	
4.00	6.95	32	14	
5.00	8.69	21	9	

H[m]	D[m]	Max lux	Med lux	Beta=41.0°+41.0° G=0.0
1.00	1.74	513	219	
2.00	3.47	128	55	
3.00	5.21	57	24	
4.00	6.95	32	14	
5.00	8.69	21	9	

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Flujo Total=911.24 Flujo Luminaria=911.24

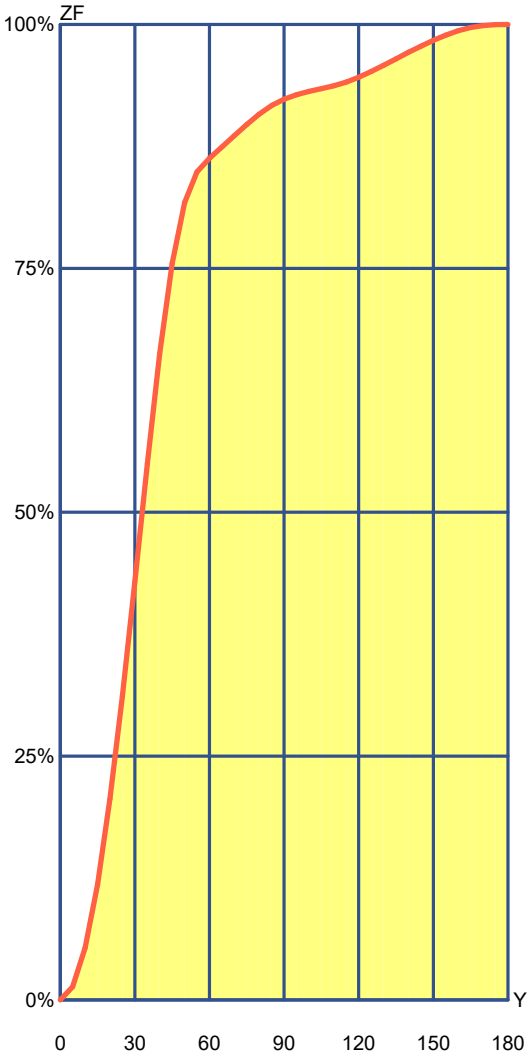
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.52	0.59	0.66	0.71	0.75	0.82	0.86	0.88	0.91	0.93	0.96	0.98
RC	1	1	1	1	1	1	1	1	1	1	1	1

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)	53	206	429	663	818	863	886	908	923	931	937	946	958	971	984	994	999	1000

Códigos de Flujo C.I.E.
75 93 97 92 100

C.I.E.	1	LOR	100.00000 %
D DIN 5040	A61	ULOR	7.66373 %
F UTE	0.92 B + 0.08 T	DLOR	92.33627 %
B NBN	BZ 2	UFF	7.66373 %
RN	7.66373 %	DFF	92.33627 %
BLF	1.0	FFR	8.29981 %



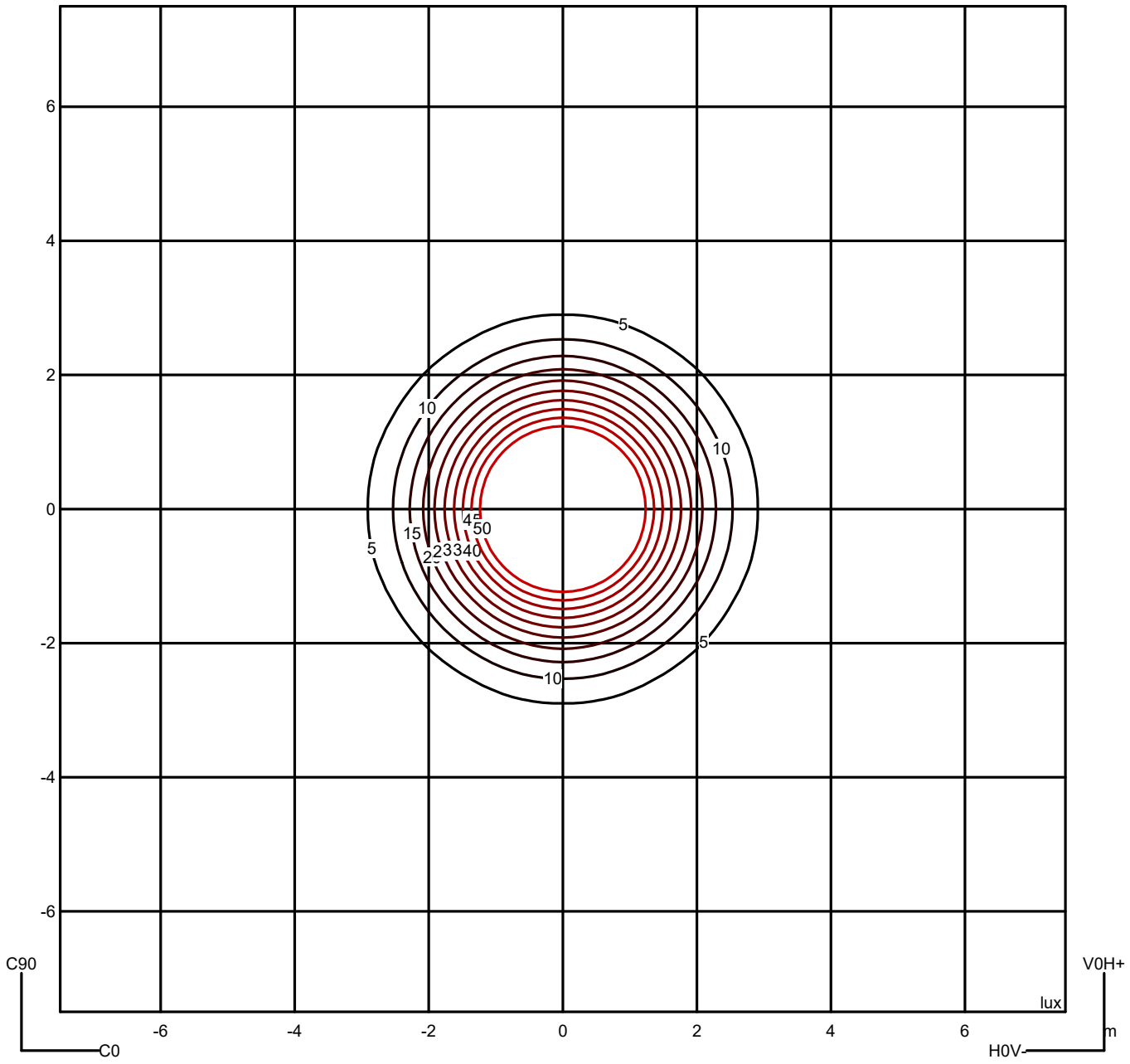
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	13.44	13.44	1.34 %	1.34 %
10°	39.90	53.34	3.99 %	5.33 %
15°	65.04	118.38	6.50 %	11.84 %
20°	87.51	205.89	8.75 %	20.59 %
25°	105.57	311.46	10.56 %	31.15 %
30°	117.47	428.93	11.75 %	42.89 %
35°	120.81	549.74	12.08 %	54.97 %
40°	112.88	662.62	11.29 %	66.26 %
45°	92.47	755.09	9.25 %	75.51 %
50°	62.41	817.51	6.24 %	81.75 %
55°	31.33	848.84	3.13 %	84.88 %
60°	14.04	862.88	1.40 %	86.29 %
65°	11.56	874.44	1.16 %	87.44 %
70°	11.52	885.95	1.15 %	88.60 %
75°	11.47	897.42	1.15 %	89.74 %
80°	10.73	908.15	1.07 %	90.82 %
85°	8.81	916.96	0.88 %	91.70 %
90°	6.40	923.36	0.64 %	92.34 %
95°	4.63	927.99	0.46 %	92.80 %
100°	3.45	931.45	0.35 %	93.14 %
105°	2.78	934.23	0.28 %	93.42 %
110°	2.86	937.09	0.29 %	93.71 %
115°	3.78	940.87	0.38 %	94.09 %
120°	4.94	945.81	0.49 %	94.58 %
125°	5.89	951.70	0.59 %	95.17 %
130°	6.47	958.17	0.65 %	95.82 %
135°	6.64	964.81	0.66 %	96.48 %
140°	6.59	971.40	0.66 %	97.14 %
145°	6.37	977.77	0.64 %	97.78 %
150°	5.97	983.74	0.60 %	98.37 %
155°	5.35	989.10	0.54 %	98.91 %
160°	4.46	993.56	0.45 %	99.36 %
165°	3.29	996.85	0.33 %	99.69 %
170°	2.01	998.87	0.20 %	99.89 %
175°	0.92	999.79	0.09 %	99.98 %
180°	0.21	1000.00	0.02 %	100.00 %

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Sources Flux	911.24 lm	Maximum value	513.34 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

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



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Code CL092A23D002GP
Name PERRIS BROWN OPTIC SET

Luminaire Flux	911.24 lm	Luminaire Power	17.60 W	Efficacy	51.77 lm/W	Efficiency	100.00%
Sources Flux	911.24 lm	Maximum value	513.34 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

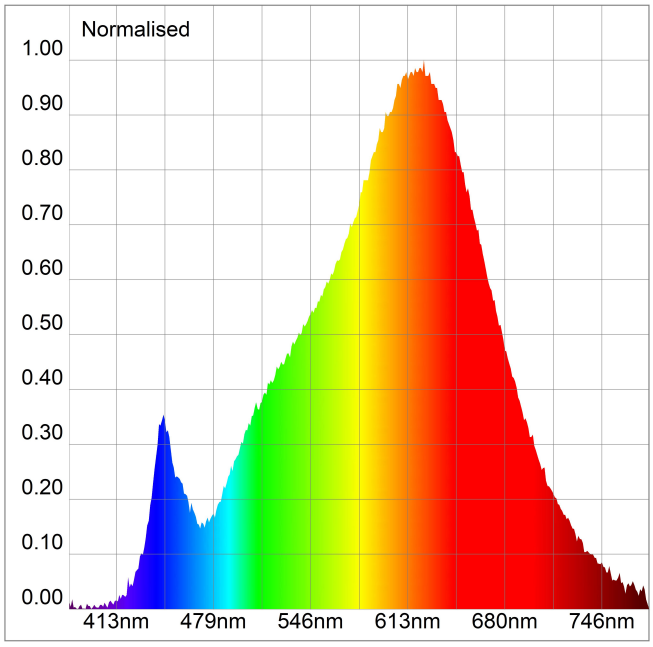
Spectral Data

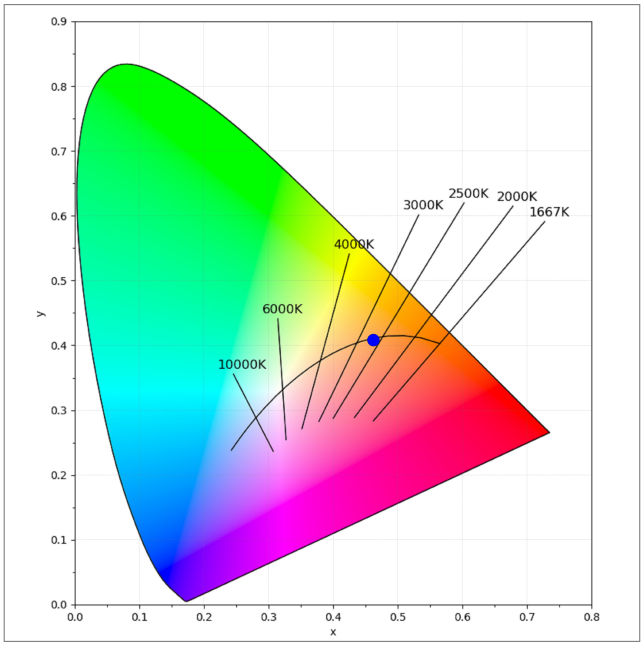
CIE1931	x =0.462488	y =0.407967	Color rendering index (CRI)	CRI8(Ra) 92.1			CRI15(Rav) 89.4		
CIE1960	u =0.265393	v =0.351160	Color Rendering Components	R 1: 92.4	R 2: 96.4	R 3: 98.3	R 4: 92.2	R 5: 92.3	
CIE1976	u'=0.265393	v'=0.526739		R 6: 96.0	R 7: 90.4	R 8: 79.0	R 9: 55.0	R10: 90.6	
D(u,v)	0.00117			R11: 93.3	R12: 86.0	R13: 93.5	R14: 98.4	R15: 87.9	
			CCT = 2643 K						

Spectral Distribution

l(nm)	Normalised	l(nm)	Normalised	l(nm)	Normalised
380.0	0.011898	386.0	0.000727	392.0	0.000239
398.0	0.005277	404.0	0.002496	410.0	0.011679
416.0	0.007956	422.0	0.025912	428.0	0.046277
434.0	0.095620	440.0	0.160584	446.0	0.299270
452.0	0.321898	458.0	0.239416	464.0	0.210219
470.0	0.181752	476.0	0.157664	482.0	0.164964
488.0	0.194891	494.0	0.240876	500.0	0.278102
506.0	0.326277	512.0	0.365693	518.0	0.390511
524.0	0.411679	530.0	0.450365	536.0	0.458394
542.0	0.503650	548.0	0.524818	554.0	0.548175
560.0	0.586131	566.0	0.616058	572.0	0.654745
578.0	0.695620	584.0	0.759124	590.0	0.795620
596.0	0.854015	602.0	0.897810	608.0	0.934307
614.0	0.970803	620.0	0.970803	626.0	0.978102
632.0	0.956204	638.0	0.927007	644.0	0.883212
650.0	0.824818	656.0	0.759124	662.0	0.702920
668.0	0.635036	674.0	0.561314	680.0	0.504380
686.0	0.437956	692.0	0.379562	698.0	0.329927
704.0	0.281022	710.0	0.233577	716.0	0.203650
722.0	0.171533	728.0	0.146715	734.0	0.127007
740.0	0.100000	746.0	0.082482	752.0	0.066861
758.0	0.052263	764.0	0.027810	770.0	0.043723
776.0	0.042847	782.0	0.029270	788.0	0.029270

Spectrum Graph

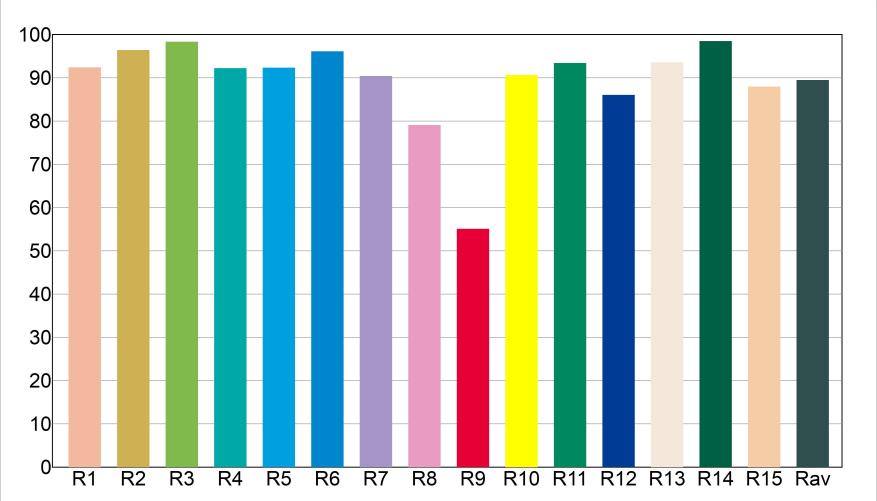


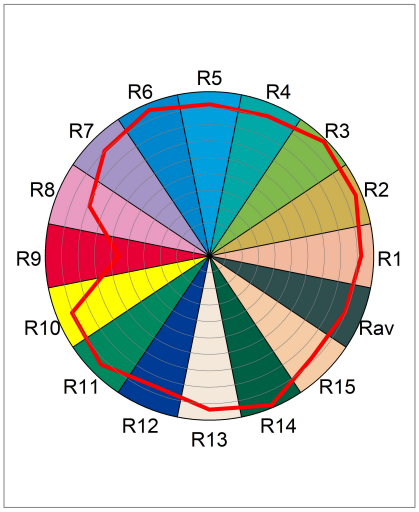


Luminaire
Code 37001xxx127
Name PERRIS BROWN OPTIC SET
Measurem.
Code CL092A23D002GP
Name PERRIS BROWN OPTIC SET

Luminaire Flux	911.24 lm	Luminaire Power	17.60 W	Efficacy	51.77 lm/W	Efficiency	100.00%
Sources Flux	911.24 lm	Maximum value	513.34 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

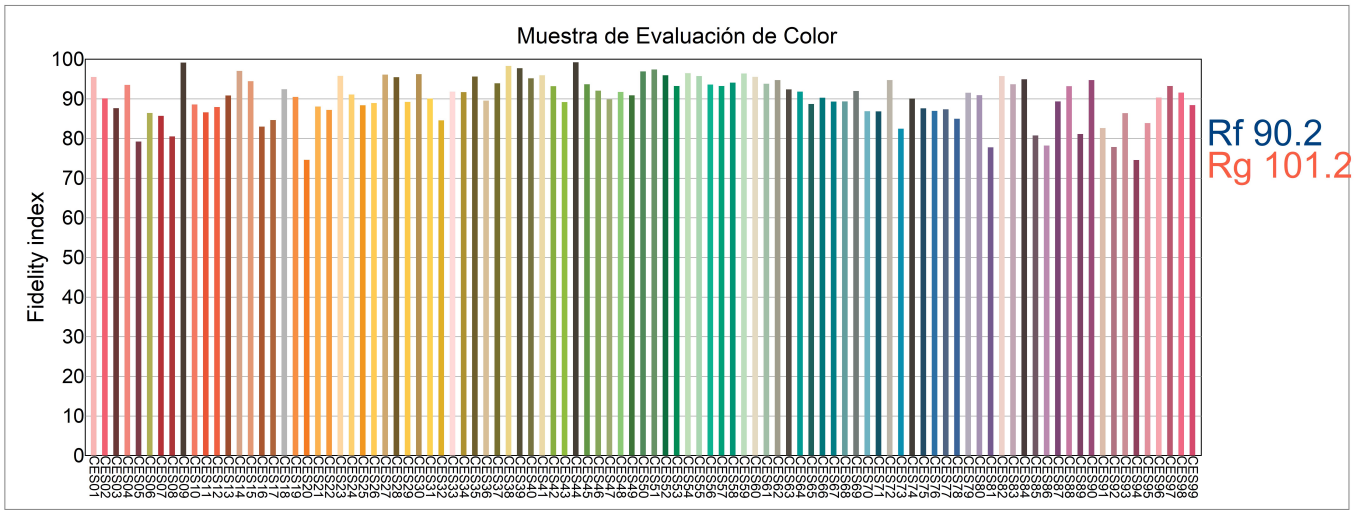
CRI Graphs



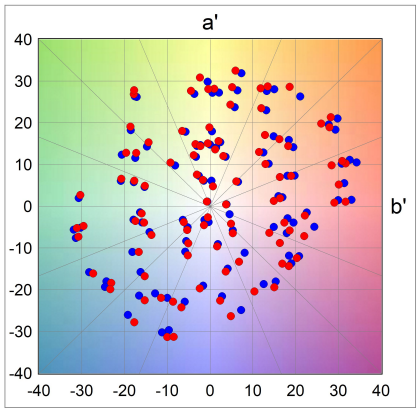


Luminaire
Code 37001xxx127
Name PERRIS BROWN OPTIC SET
Measurem.
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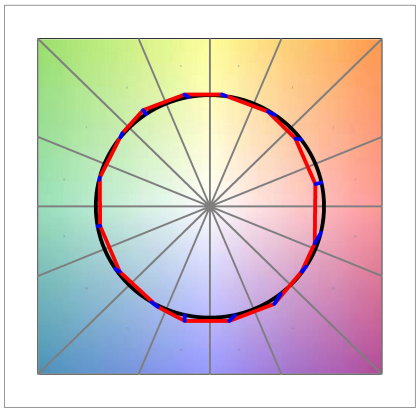
Luminaire Flux	911.24 lm	Luminaire Power	17.60 W	Efficacy	51.77 lm/W	Efficiency	100.00%
Sources Flux	911.24 lm	Maximum value	513.34 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical



Chromatic Coordinates (a', b') 99 CES



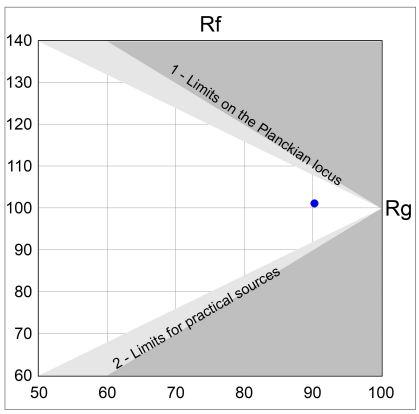
Color Vector Graphic



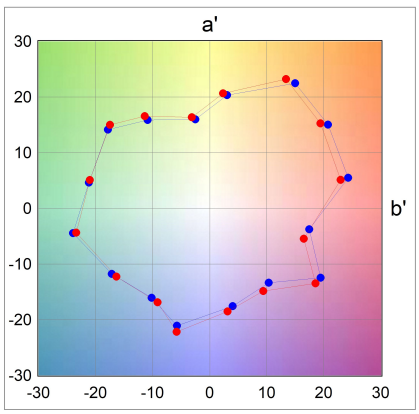
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

