Luminaria

Código	37801324300
Nombre	KANDO_P76R_OUTDOOR_2200K_SAND_37801324300
Familia	OxyTech

Ensayo

Código	CL092A24D006VP
Nombre	KANDO_P76R_OUTDOOR_2200K_SAND_37801324300

Datos Fuente de luz

Código	37801324300	Temp. de Color Correlacionada (TCP)	2166K	Cant.	1
Nombre	Cree J Series 2835 3-V	Índice repr. Cromática (CRI)	93		
Familia					

Datos del Ensayo

Sist. de Coorden.	CG	Tipo de Simetría	Bisimétrico
Fecha	04-07-2024	Máximo Ángulo Gamma	180°
Distancia de Ensayo	6.49m	Flujo de Ensayo	359.2 lm
Máximo	963.43 cd/klm	Posición	C=90.0° G=7.5°
Notas	RM24070304.1		

Parám. Eléctricos

Canal 1		Canal 2	
Tensión	230.00 V	Tensión	0.00 V
Corriente	0.13 A	Corriente	0.00 A
Potencia	5.50 W	Potencia	0.00 W
Frecuencia	0 Hz	Frecuencia	0 Hz
Factor de Potencia	0.64	Factor de Potencia	0.00

Parámetros Ambientales

Temperatura	25.0 °C	Velocidad del Aire	0.0 m/s
Humedad	56.0 %		

Dim. de la Luminaria

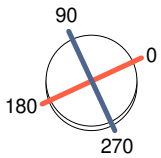
Luminaria Redonda	Diam.	490 mm	Altura	760 mm	
Área Luminosa Redonda	Diam.	410 mm	Altura	460 mm	
Área Luminosa Horizontal	0.132025 m2		Área Emisión sobre Pl. 180°	0.188600 m2	
Área Emisión sobre Pl. 0°	0.188600 m2		Área Emisión sobre Pl. 270°	0.188600 m2	
Área Emisión sobre Pl. 90°	0.188600 m2		Área de deslumbramiento a 76°	0.214938 m2	

Análisis Fotométrico

Flujo Luminaria	114.0 lm	Flujo Fuente	114.0 lm
Eficacia	20.727 lm/W	Eficiencia	100.0 %
Códigos de Flujo C.I.E.	52 78 93 93 100	D DIN 5040	A41
F UTE	0.93 D + 0.07 T	B NBN	BZ 3 / 0.6 / BZ 4 / 3 / BZ 5

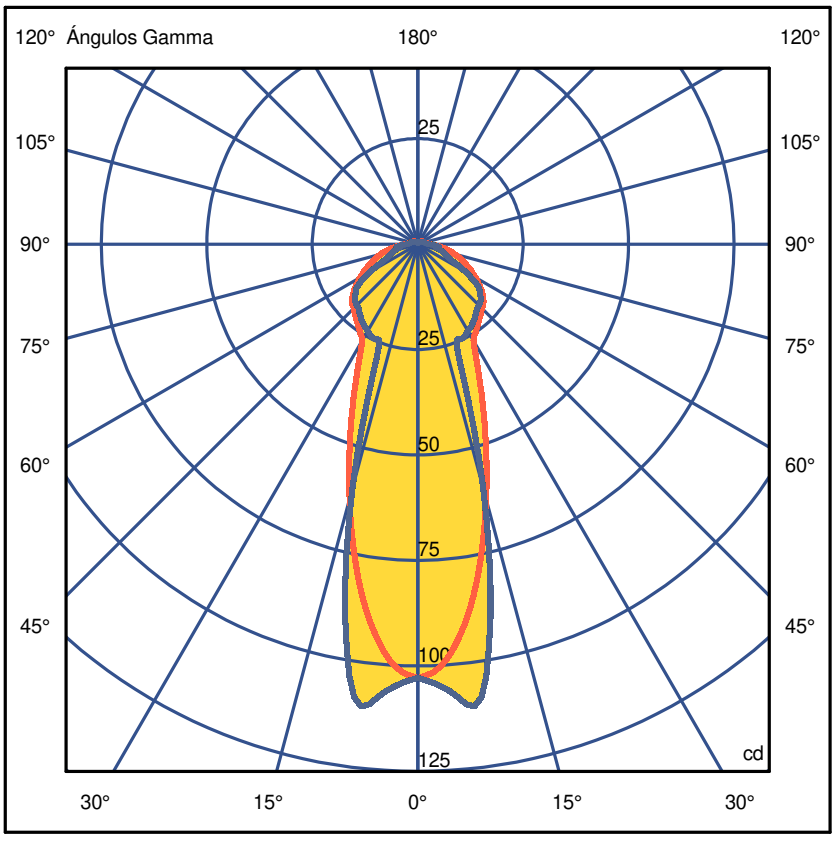


Diam=490mm





ULOR 7.33 %
DLOR 92.67 %
RN 7.33 %



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Flujo Luminaria	114 lm	Potencia Luminaria	5.5 W	Eficacia	20.727 lm/W	Eficiencia	100.00%
Flujo Fuente	114 lm	Valor Máximo	109.83 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

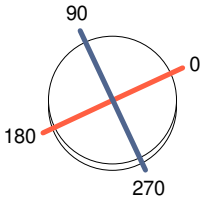
Tabla de Intensidad Luminosa cd **Tabla 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	102.81772	102.81772	102.81772	102.81772	102.81772	102.81772	102.81772
G 2.5	101.06218	101.31461	101.95111	102.78863	103.61032	104.21436	104.45114
G 5.0	96.30482	97.07719	98.95034	101.45458	104.31650	106.73917	107.74082
G 7.5	89.30962	90.45330	93.01167	97.62056	103.70675	108.13142	109.83122
G 10.0	80.84050	81.74658	83.74317	89.18658	93.63602	96.11658	97.21065
G 12.5	71.66142	71.42220	71.09162	73.52311	75.81375	78.05720	79.11059
G 15.0	62.53633	60.36687	55.99901	56.10837	58.31299	59.47045	59.74972
G 17.5	54.11200	50.89215	42.31096	41.66863	43.63386	42.95710	41.85699
G 20.0	46.56650	42.67922	34.70012	31.75976	33.64211	30.97227	28.48439
G 22.5	39.96075	35.69926	29.54349	27.39266	29.21459	26.47521	24.35291
G 25.0	34.35565	30.42282	26.38004	25.55859	28.41911	25.84055	24.68463
G 27.5	29.81212	26.93952	24.60402	25.45970	27.77407	25.25679	24.34644
G 30.0	26.39106	24.99353	23.58288	25.38453	26.50065	24.73487	23.77185
G 32.5	25.25663	23.91205	22.85236	24.39925	25.19384	23.88894	23.31340
G 35.0	24.32327	23.24803	22.03424	23.01414	23.88433	22.80525	22.76259
G 37.5	23.53598	23.15826	21.07776	21.82707	22.88342	21.76224	22.12903
G 40.0	22.83976	22.05948	19.79045	20.88375	21.88040	20.95121	21.42683
G 42.5	22.17960	20.96993	18.72550	19.92919	21.08639	20.22695	20.78121
G 45.0	21.50052	19.82710	17.79819	18.84465	20.06306	19.35949	20.45406
G 47.5	21.02377	18.71831	16.96214	17.62744	18.83670	18.36752	20.08997
G 50.0	20.26941	17.72706	16.19231	16.37720	17.55618	17.34608	19.37061
G 52.5	19.30212	16.86618	15.61841	15.23073	16.15644	16.31017	18.50877
G 55.0	18.18663	16.09246	15.11666	14.30442	14.84036	15.13569	17.46429
G 57.5	16.98764	15.34899	14.59407	13.72183	13.77021	13.60616	15.46177
G 60.0	15.76985	14.57030	14.03055	13.13434	12.53085	11.59933	12.94279
G 62.5	14.58567	13.70454	13.46964	12.20721	11.14779	9.56035	10.39995
G 65.0	13.43834	12.74583	12.79609	11.14821	9.76606	7.85166	8.34384
G 67.5	12.31881	11.71752	11.95828	10.10762	8.95108	7.06965	7.54771
G 70.0	11.21802	10.64089	10.97801	9.08885	8.81490	6.92531	6.93550
G 72.5	10.12691	9.53890	9.88825	8.23056	8.75413	6.36377	6.25511
G 75.0	9.03643	8.43470	8.73776	7.49429	8.22401	5.56976	5.55931
G 77.5	7.94217	7.35333	7.59178	6.85557	7.27401	4.97980	4.90289
G 80.0	6.85830	6.31264	6.50736	6.16941	6.14468	4.36952	4.26632
G 82.5	5.80365	5.32707	5.49505	5.35749	5.02645	3.76050	5.17770
G 85.0	4.79704	4.40980	4.56979	4.46245	4.08834	3.24592	4.35588
G 87.5	3.85729	3.57322	3.73625	3.56487	3.33674	2.84552	3.50697
G 90.0	3.00323	2.82940	2.99759	2.75423	2.73156	2.53048	2.63580
G 92.5	2.61891	2.57134	2.71504	2.46866	2.39090	2.22080	2.31241
G 95.0	2.32338	2.34621	2.46049	2.23798	2.15283	1.94889	2.00218
G 97.5	2.10092	2.15077	2.23580	2.05475	1.98775	1.77059	1.83041
G100.0	1.93581	1.98179	2.04279	1.91109	1.85573	1.64862	1.76427
G102.5	1.81235	1.83599	1.88435	1.81325	1.73830	1.58834	1.70202
G105.0	1.71480	1.71770	1.78818	1.72940	1.64485	1.53907	1.62514
G107.5	1.62971	1.64036	1.72045	1.65497	1.56593	1.48519	1.55564
G110.0	1.55267	1.56615	1.66431	1.58939	1.51605	1.44678	1.50079
G112.5	1.48150	1.49474	1.60960	1.53075	1.48668	1.41315	1.45691
G115.0	1.41406	1.42594	1.54604	1.47157	1.43232	1.36474	1.39699
G117.5	1.34818	1.35960	1.46810	1.40473	1.36058	1.29896	1.31386
G120.0	1.28169	1.29361	1.37994	1.33070	1.30185	1.23040	1.20832
G122.5	1.21307	1.22676	1.29222	1.25484	1.22122	1.13311	1.10971
G125.0	1.14320	1.15865	1.21339	1.17901	1.13302	1.05141	1.03139
G127.5	1.07362	1.09088	1.14493	1.10741	1.06502	0.99746	0.98026
G130.0	1.00585	1.02549	1.08350	1.04509	1.00018	0.92384	0.93602
G132.5	0.94140	0.96395	1.02303	0.99118	0.94446	0.88425	0.89918
G135.0	0.88180	0.90717	0.96374	0.94247	0.90775	0.85688	0.87074
G137.5	0.82827	0.85523	0.90808	0.89561	0.86597	0.83094	0.83408
G140.0	0.78081	0.80750	0.85849	0.85295	0.82902	0.80224	0.80662
G142.5	0.73912	0.76460	0.81619	0.81408	0.79398	0.76951	0.77090
G145.0	0.70289	0.72726	0.77977	0.77557	0.75582	0.73595	0.73233
G147.5	0.67183	0.69538	0.74444	0.73816	0.71435	0.69897	0.69558
G150.0	0.64564	0.66773	0.70733	0.70306	0.67590	0.66189	0.65684
G152.5	0.62363	0.64178	0.67095	0.67011	0.64356	0.62441	0.61917
G155.0	0.60360	0.61676	0.63851	0.63724	0.61262	0.59121	0.58435
G157.5	0.58296	0.59161	0.60904	0.60051	0.58057	0.55946	0.55154
G160.0	0.55913	0.56461	0.57933	0.56377	0.54717	0.52691	0.51805
G162.5	0.52952	0.53313	0.54491	0.52778	0.50760	0.49385	0.48669
G165.0	0.49155	0.49334	0.50090	0.48767	0.46890	0.45522	0.44989
G167.5	0.44406	0.44451	0.44839	0.44180	0.42763	0.41582	0.41086
G170.0	0.39167	0.39147	0.39301	0.39058	0.38242	0.37415	0.37041
G172.5	0.34040	0.34006	0.34010	0.33924	0.33573	0.33145	0.32935
G175.0	0.29630	0.29613	0.29548	0.29478	0.29363	0.29231	0.29146
G177.5	0.26542	0.26543	0.26515	0.26473	0.26427	0.26386	0.26355
G180.0	0.25378	0.25378	0.25378	0.25378	0.25378	0.25378	0.25378

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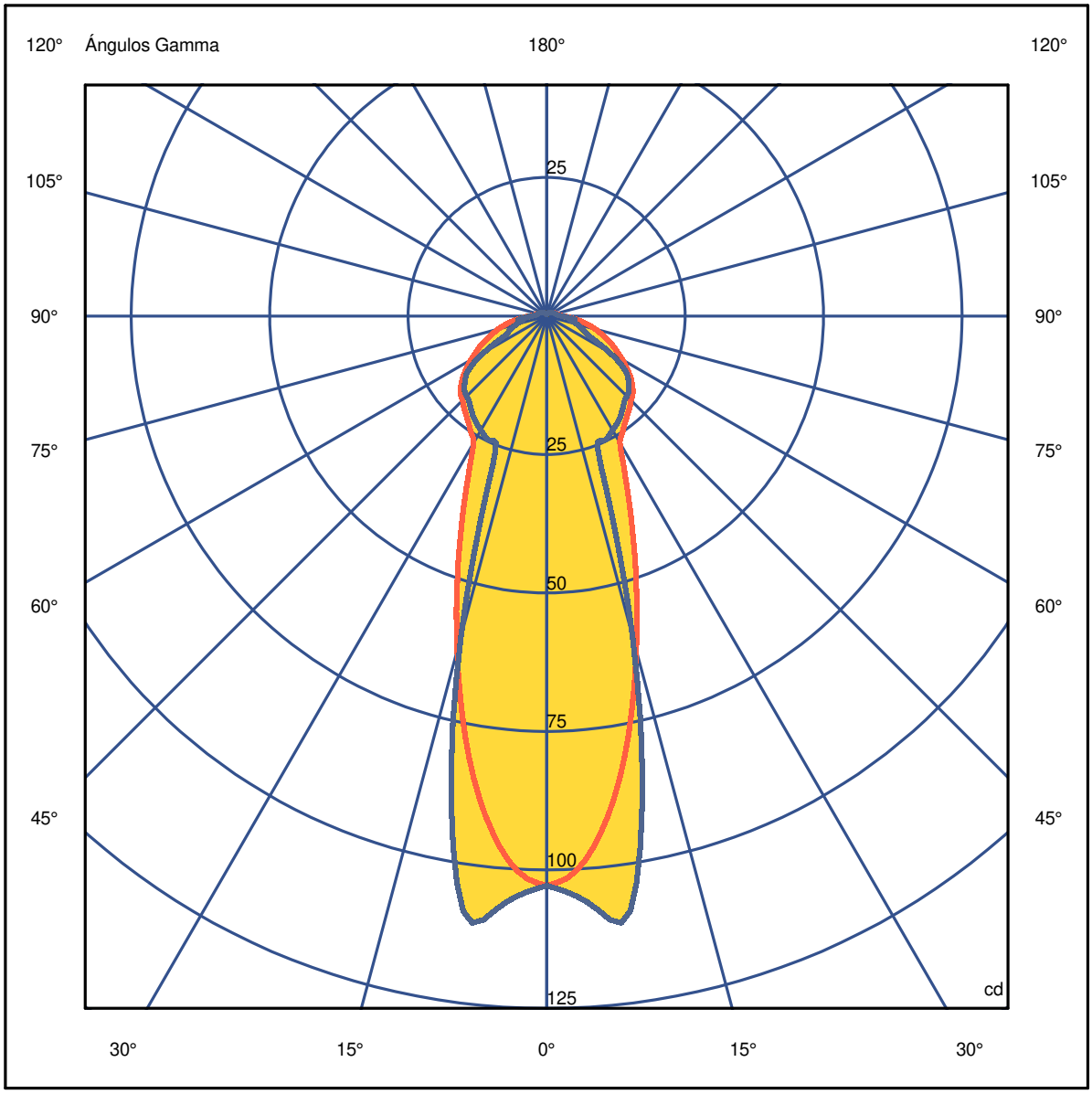
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Flujo Fuente	114 lm	Valor Máximo	109.83 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

Diam=490mm



Semiplanos C

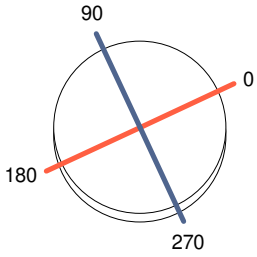
180.0 0.0
270.0 90.0



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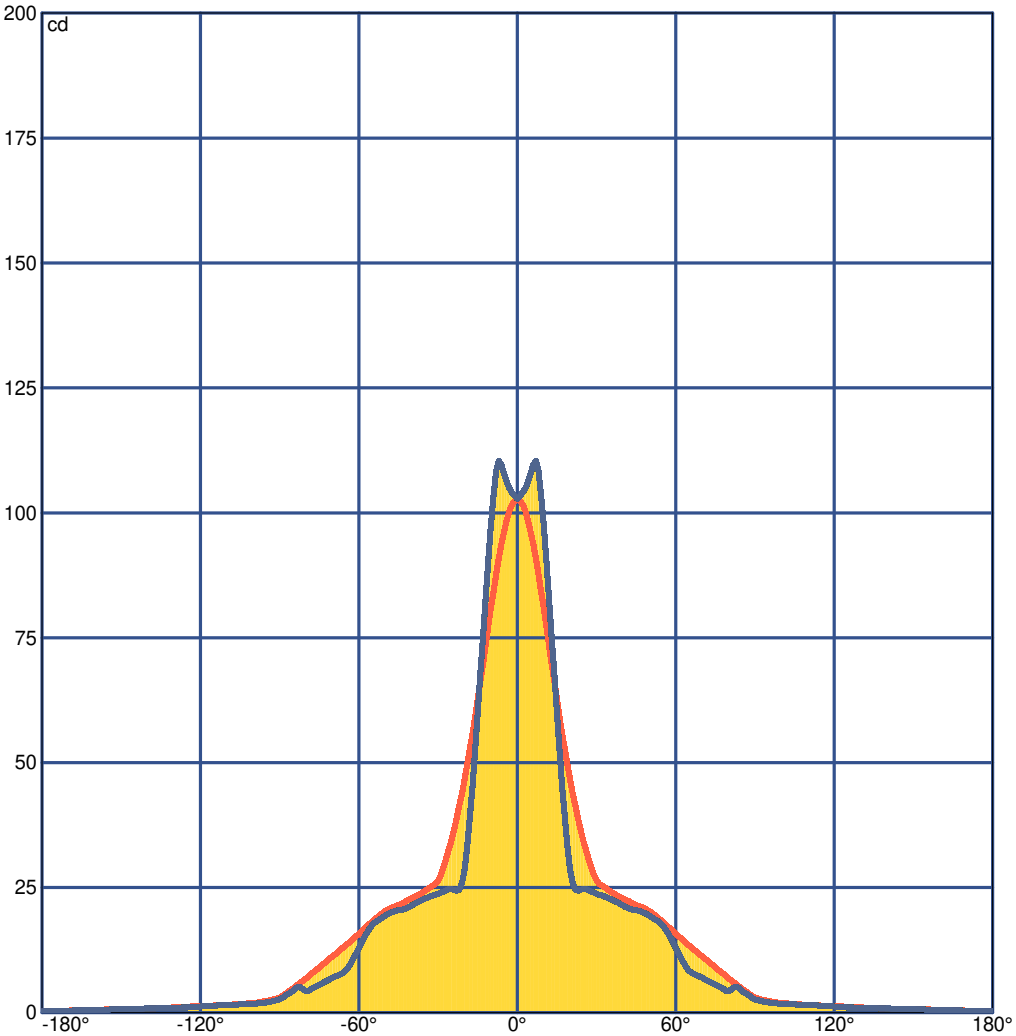
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Semiplanos C





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Flujo Fuente	114 lm	Valor Máximo	109.83 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

UGR
S = 0.250

Reflectancias										
Techo/Cavidad	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Paredes	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
PDT	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Dimensiones del Local	Vista Lateral					Vista Longitudinal				
x=2H y=2H	2.5	3.7	2.9	4.1	4.4	1.8	3.0	2.2	3.3	3.7
x=2H y=3H	4.0	5.1	4.4	5.5	5.9	2.5	3.6	3.0	4.0	4.4
x=2H y=4H	4.6	5.6	5.1	6.0	6.5	2.9	3.9	3.3	4.3	4.7
x=2H y=6H	5.1	6.0	5.6	6.5	6.9	3.2	4.1	3.7	4.6	5.0
x=2H y=8H	5.3	6.2	5.8	6.6	7.1	3.4	4.3	3.8	4.7	5.2
x=2H y=12H	5.4	6.3	5.9	6.7	7.2	3.6	4.4	4.1	4.9	5.4
x=4H y=2H	3.0	4.0	3.4	4.4	4.8	2.4	3.4	2.8	3.8	4.2
x=4H y=3H	4.7	5.6	5.2	6.1	6.6	3.4	4.3	3.9	4.8	5.3
x=4H y=4H	5.5	6.3	6.0	6.7	7.3	4.0	4.8	4.5	5.2	5.8
x=4H y=6H	6.1	6.8	6.6	7.3	7.8	4.4	5.1	4.9	5.6	6.1
x=4H y=8H	6.3	7.0	6.9	7.5	8.0	4.6	5.2	5.2	5.7	6.3
x=4H y=12H	6.5	7.1	7.1	7.6	8.2	4.8	5.4	5.4	5.9	6.5
x=8H y=4H	5.7	6.3	6.3	6.8	7.4	4.4	5.0	5.0	5.6	6.1
x=8H y=6H	6.5	7.0	7.0	7.5	8.1	5.0	5.6	5.6	6.1	6.7
x=8H y=8H	6.8	7.2	7.4	7.8	8.5	5.3	5.8	5.9	6.4	7.0
x=8H y=12H	7.1	7.5	7.7	8.1	8.7	5.6	6.0	6.2	6.6	7.2
x=12H y=4H	5.7	6.3	6.3	6.8	7.4	4.5	5.0	5.0	5.6	6.1
x=12H y=6H	6.5	7.0	7.1	7.6	8.2	5.2	5.6	5.7	6.2	6.8
x=12H y=8H	6.9	7.3	7.5	7.9	8.5	5.5	5.9	6.1	6.5	7.1

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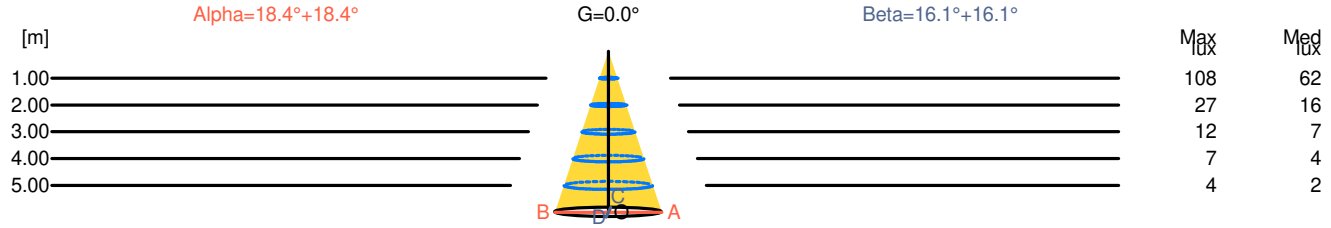
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Flujo Fuente	114 lm	Valor Máximo	109.83 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

Apertura a 50.00 % de Max Intensidad

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	0.33	0.66	1.00	1.33	1.66	OC	0.29	0.58	0.87	1.16	1.45
OB	0.33	0.66	1.00	1.33	1.66	OD	0.29	0.58	0.87	1.16	1.45

Intensidades Luminosas [cd]

	0	5	15	25	35	45	55	65	75	85
OA	102.82	96.30	62.54	34.36	24.32	21.50	18.19	13.44	9.04	4.80
OB	102.82	96.30	62.54	34.36	24.32	21.50	18.19	13.44	9.04	4.80
OC	102.82	107.74	59.75	24.68	22.76	20.45	17.46	8.34	5.56	4.36
OD	102.82	107.74	59.75	24.68	22.76	20.45	17.46	8.34	5.56	4.36



H[m]	D[m]	Max lux	Med lux	Alpha=18.4°+18.4° G=0.0
1.00	0.66	108	62	
2.00	1.33	27	16	
3.00	1.99	12	7	
4.00	2.66	7	4	
5.00	3.32	4	2	

H[m]	D[m]	Max lux	Med lux	Beta=16.1°+16.1° G=0.0
1.00	0.58	108	62	
2.00	1.16	27	16	
3.00	1.73	12	7	
4.00	2.31	7	4	
5.00	2.89	4	2	

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Flujo Total=114.00 Flujo Luminaria=114.00

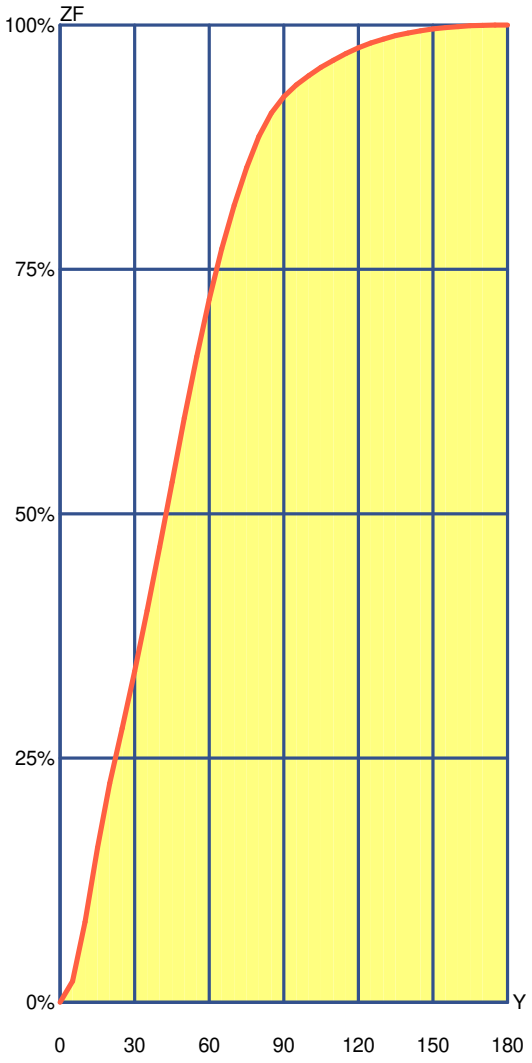
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.35	0.43	0.49	0.56	0.61	0.68	0.74	0.78	0.82	0.85	0.92	0.96
RC	4	4	4	5	5	5	5	5	5	5	5	5

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)	82	224	339	466	598	719	815	886	927	948	964	977	986	992	996	999	1000	1000

Códigos de Flujo C.I.E.
52 78 93 93 100

C.I.E.	4/4/4/5/5/5/5/5/5/5/5	LOR	100.00000 %
D DIN 5040	A41	ULOR	7.32595 %
F UTE	0.93 D + 0.07 T	DLOR	92.67405 %
B NBN	BZ 3 / 0.6 / BZ 4 / 3 / BZ 5	UFF	7.32595 %
RN	7.32595 %	DFF	92.67405 %
BLF	1.0	FFR	7.90507 %



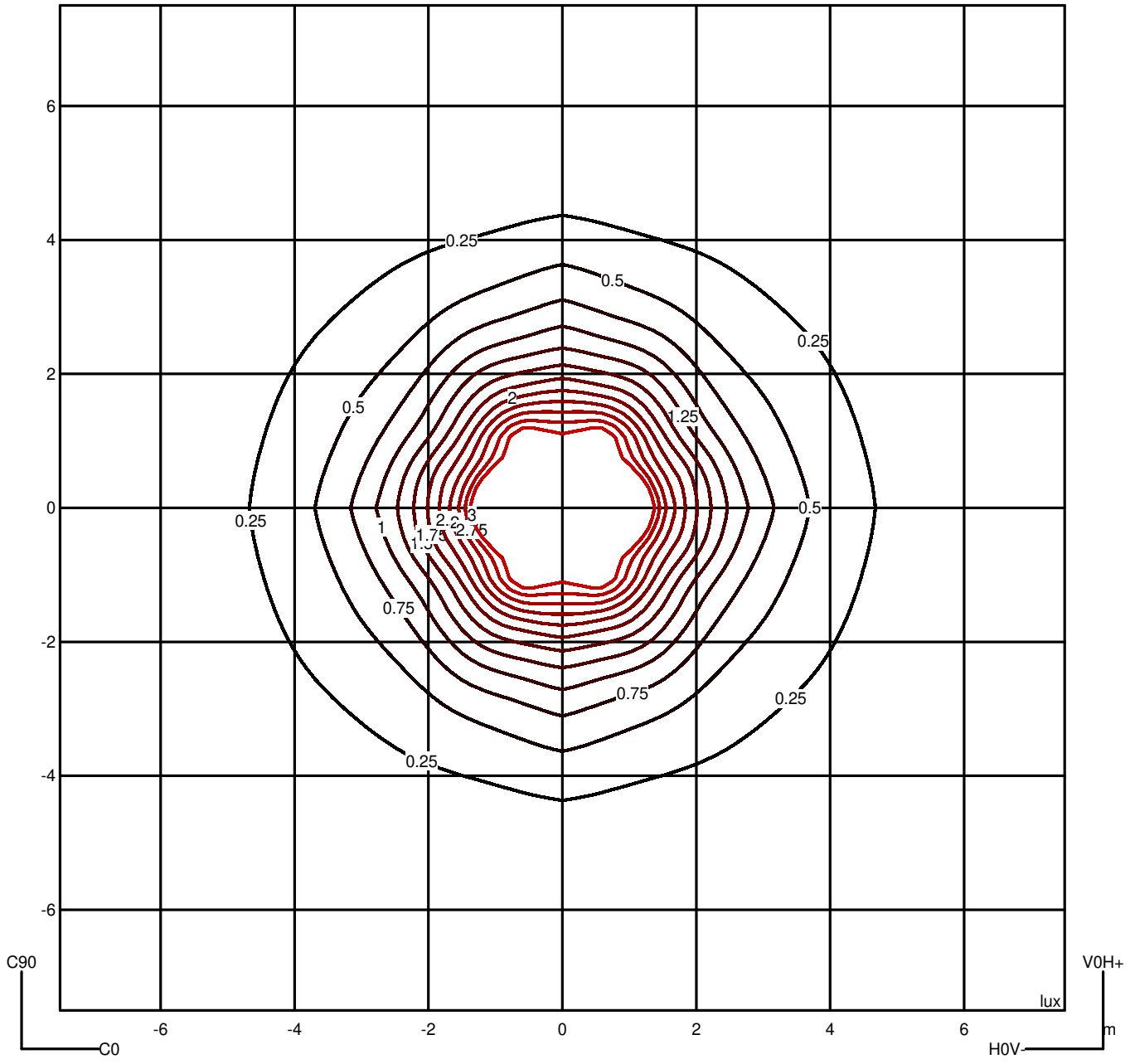
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	21.48	21.48	2.15 %	2.15 %
10°	60.57	82.05	6.06 %	8.20 %
15°	76.21	158.26	7.62 %	15.83 %
20°	65.78	224.03	6.58 %	22.40 %
25°	56.43	280.46	5.64 %	28.05 %
30°	58.28	338.74	5.83 %	33.87 %
35°	62.16	400.90	6.22 %	40.09 %
40°	65.01	465.91	6.50 %	46.59 %
45°	66.21	532.11	6.62 %	53.21 %
50°	65.55	597.66	6.56 %	59.77 %
55°	62.99	660.66	6.30 %	66.07 %
60°	58.78	719.44	5.88 %	71.94 %
65°	51.61	771.05	5.16 %	77.10 %
70°	44.44	815.49	4.44 %	81.55 %
75°	38.82	854.30	3.88 %	85.43 %
80°	31.63	885.94	3.16 %	88.59 %
85°	24.09	910.03	2.41 %	91.00 %
90°	16.71	926.74	1.67 %	92.67 %
95°	11.94	938.68	1.19 %	93.87 %
100°	9.72	948.40	0.97 %	94.84 %
105°	8.34	956.73	0.83 %	95.67 %
110°	7.40	964.13	0.74 %	96.41 %
115°	6.66	970.79	0.67 %	97.08 %
120°	5.84	976.63	0.58 %	97.66 %
125°	4.93	981.57	0.49 %	98.16 %
130°	4.09	985.66	0.41 %	98.57 %
135°	3.39	989.05	0.34 %	98.91 %
140°	2.81	991.87	0.28 %	99.19 %
145°	2.30	994.17	0.23 %	99.42 %
150°	1.84	996.01	0.18 %	99.60 %
155°	1.44	997.45	0.14 %	99.74 %
160°	1.08	998.52	0.11 %	99.85 %
165°	0.75	999.27	0.08 %	99.93 %
170°	0.45	999.73	0.05 %	99.97 %
175°	0.21	999.94	0.02 %	99.99 %
180°	0.06	1000.00	0.01 %	100.00 %

Luminaria
Código 37801324300
Nombre KANDO_P76R_OUTDOOR_2200K_SAND_37801324300
Ensayo
Código CL092A24D006VP
Nombre KANDO_P76R_OUTDOOR_2200K_SAND_37801324300

Flujo Luminaria	114 lm	Potencia Luminaria	5.5 W	Eficacia	20.727 lm/W	Eficiencia	100.00%
Flujo Fuente	114 lm	Valor Máximo	109.83 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

Isolux (Suelo)

Posición Luminaria X=0.00m Y=0.00m Z=2.50m



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Flujo Fuente	114 lm	Valor Máximo	109.83 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

Datos Espectrales

Std.: No import standard

CIE1931	x =0.511133	y =0.418032
CIE1960	u =0.292322	v =0.358614
CIE1976	u'=0.292322	v'=0.537922
D(u,v)	0.00094	

Índice repr. Cromática (CRI)
Comp.Reproducción Cromática

CCT = [2166 K]*

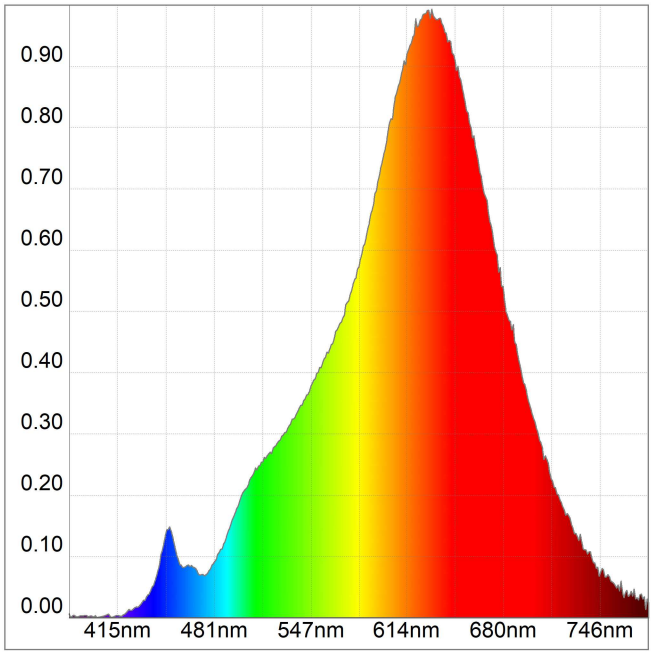
CRI8(Ra) [93.8]* CRI15(Rav) [92.2]*

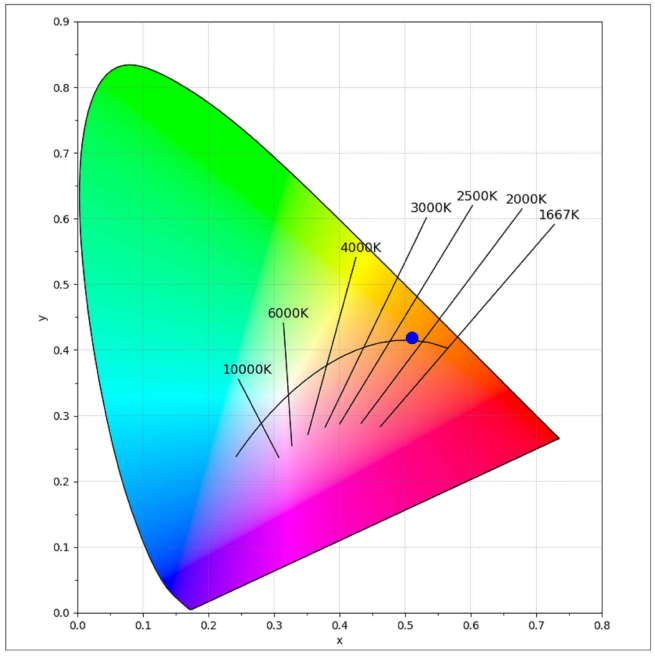
R 1: 94.5	R 2: 98.1	R 3: 99.2	R 4: 95.7	R 5: 95.2
R 6: 97.5	R 7: 90.4	R 8: 79.8	R 9: 58.8	R10: 95.3
R11: 99.3	R12: 95.7	R13: 95.7	R14: 98.9	R15: 88.3

Distribución Espectral

l(nm)	Potencia Radiante	l(nm)	Potencia Radiante	l(nm)	Potencia Radiante
382.0	0.006400	388.0	0.001400	394.0	0.003500
400.0	0.003500	406.0	0.002900	412.0	0.001167
418.0	0.002200	424.0	0.011900	430.0	0.018800
436.0	0.037200	442.0	0.068200	448.0	0.133500
454.0	0.122200	460.0	0.081700	466.0	0.085400
472.0	0.069500	478.0	0.076700	484.0	0.103800
490.0	0.131900	496.0	0.170700	502.0	0.206700
508.0	0.232300	514.0	0.254300	520.0	0.270300
526.0	0.288300	532.0	0.308600	538.0	0.332300
544.0	0.356900	550.0	0.388000	556.0	0.415300
562.0	0.445800	568.0	0.480700	574.0	0.517200
580.0	0.569300	586.0	0.621600	592.0	0.692400
598.0	0.756000	604.0	0.813600	610.0	0.885800
616.0	0.933800	622.0	0.966400	628.0	0.991300
634.0	0.976600	640.0	0.955800	646.0	0.919400
652.0	0.864800	658.0	0.800300	664.0	0.728000
670.0	0.659800	676.0	0.591700	682.0	0.499700
688.0	0.449100	694.0	0.383600	700.0	0.332200
706.0	0.285600	712.0	0.237000	718.0	0.200400
724.0	0.170200	730.0	0.137600	736.0	0.110600
742.0	0.089700	748.0	0.080500	754.0	0.060000
760.0	0.043500	766.0	0.034600	772.0	0.032900
778.0	0.013100				

Gráfico del Espectro

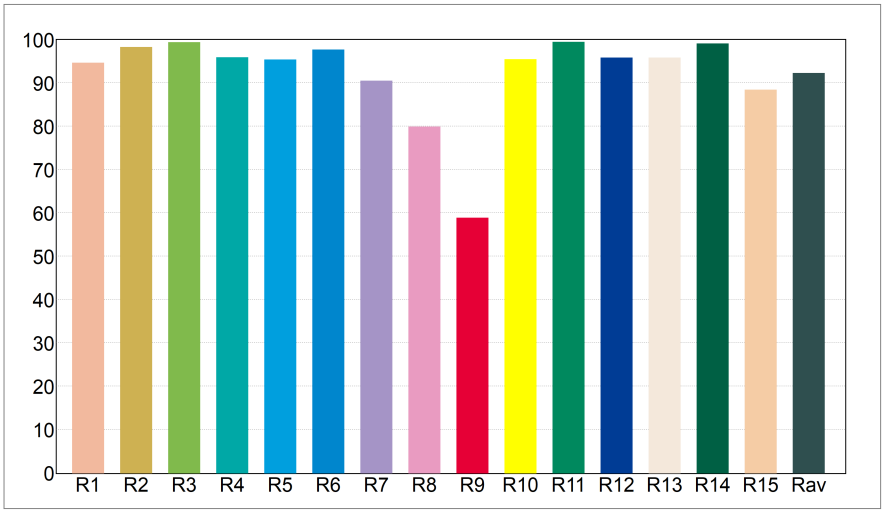


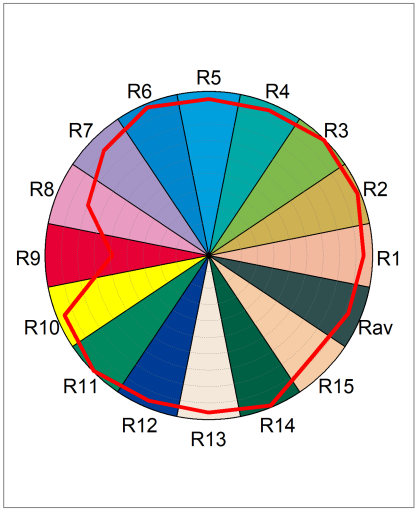


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Flujo Fuente	114 lm	Valor Máximo	109.83 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

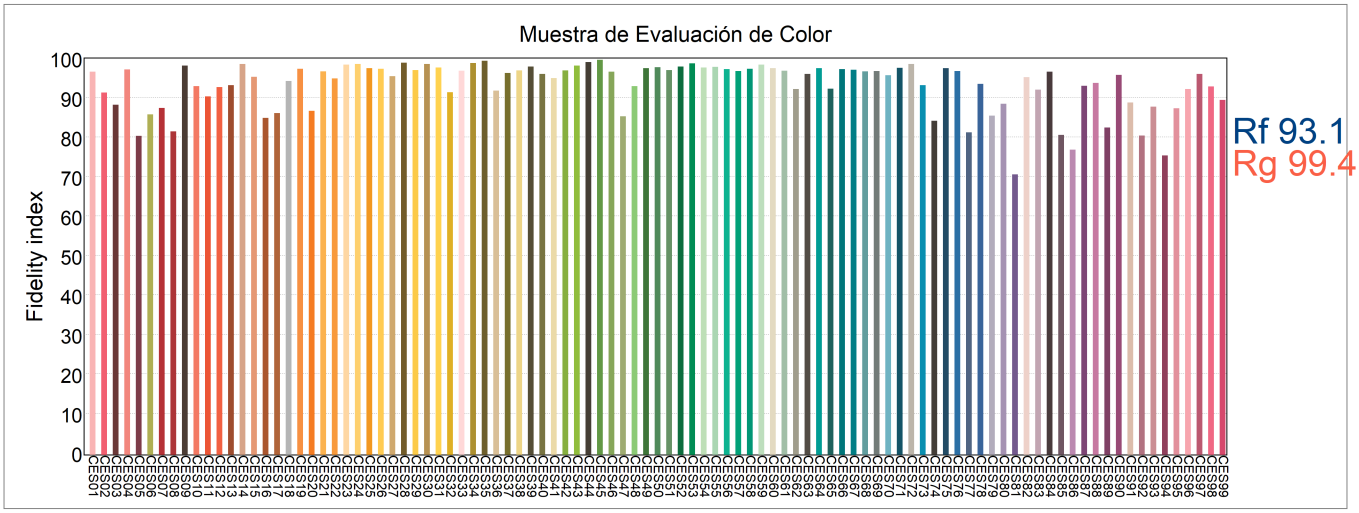
Gráficos del IRC





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Flujo Fuente	114 lm	Valor Máximo	109.83 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico



Coordenadas de Cromaticidad (a' b') 99 muestras

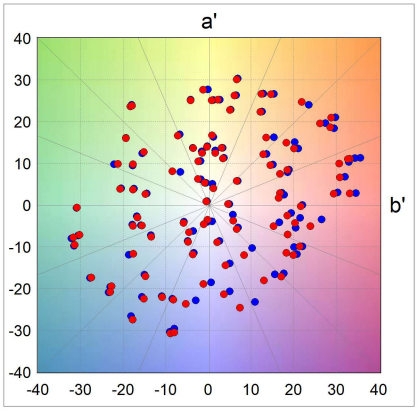


Gráfico Vectorial de Color

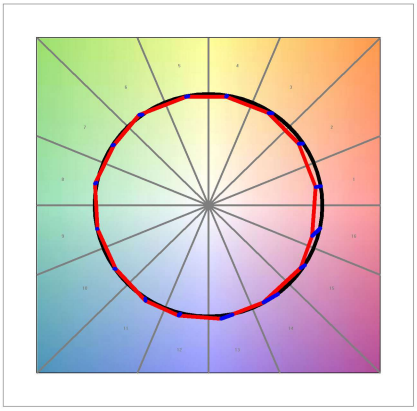


Gráfico de Distorsión de Color

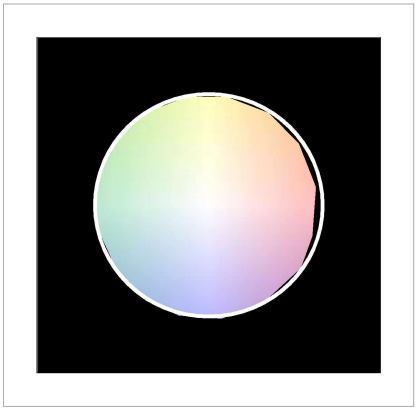


Diagrama Rf vs Rg

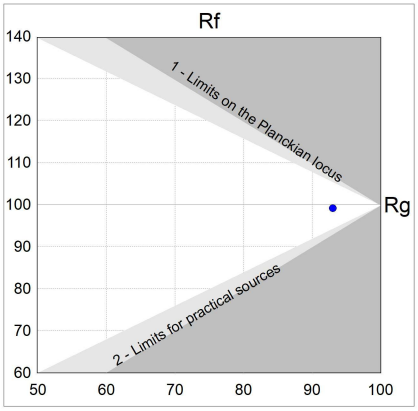
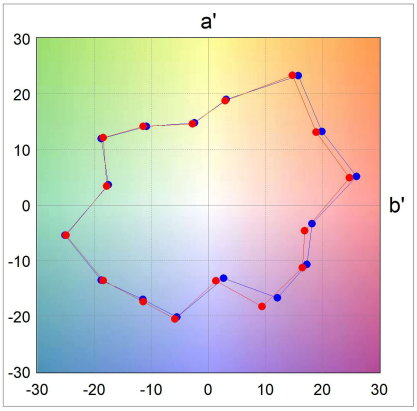


Diagrama Gamut



Cambios por Bin

