Luminaria

Código	37802318189
Nombre	KANDO_P111R_2200K_WHITE_RIBBON_37802318189
Familia	OxyTech

Ensayo

Código	CL092A24D019GP
Nombre	KANDO_P111R_2200K_WHITE_RIBBON_37802318189

Datos Fuente de luz

Código	37802318189	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	11-12-2024	Máximo Ángulo Gamma	180°
Distancia de Ensayo	6.49m	Flujo de Ensayo	1437.0 lm
Máximo	579.98 cd/klm	Posición	C=0.0° G=7.5°
Notas	RM24120401		

Parám. Eléctricos

Canal 1		Canal 2	
Tensión	230.18 V	Tensión	0.00 V
Corriente	0.15 A	Corriente	0.00 A
Potencia	5.50 W	Potencia	0.00 W
Frecuencia	0 Hz	Frecuencia	0 Hz
Factor de Potencia	0.98	Factor de Potencia	0.00

Parámetros Ambientales

Temperatura	24.6 °C	Velocidad del Aire	0.0 m/s
Humedad	29.0 %		

Dim. de la Luminaria

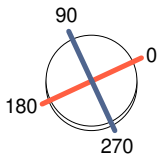
Luminaria Redonda	Diam.	490 mm	Altura	1110 mm	
Área Luminosa Redonda	Diam.	410 mm	Altura	810 mm	
Área Luminosa Horizontal	0.132025 m2		Área Emisión sobre Pl. 180°	0.332100 m2	
Área Emisión sobre Pl. 0°	0.332100 m2		Área Emisión sobre Pl. 270°	0.332100 m2	
Área Emisión sobre Pl. 90°	0.332100 m2		Área de deslumbramiento a 76°	0.354175 m2	

Análisis Fotométrico

Flujo Luminaria	251.0 lm	Flujo Fuente	251.0 lm
Eficacia	45.636 lm/W	Eficiencia	100.0 %
Códigos de Flujo C.I.E.	47 67 84 69 100	D DIN 5040	B31
F UTE	0.69 E + 0.31 T	B NBN	BZ 4 / 0.8 / BZ 5 / 2.5 / BZ 6

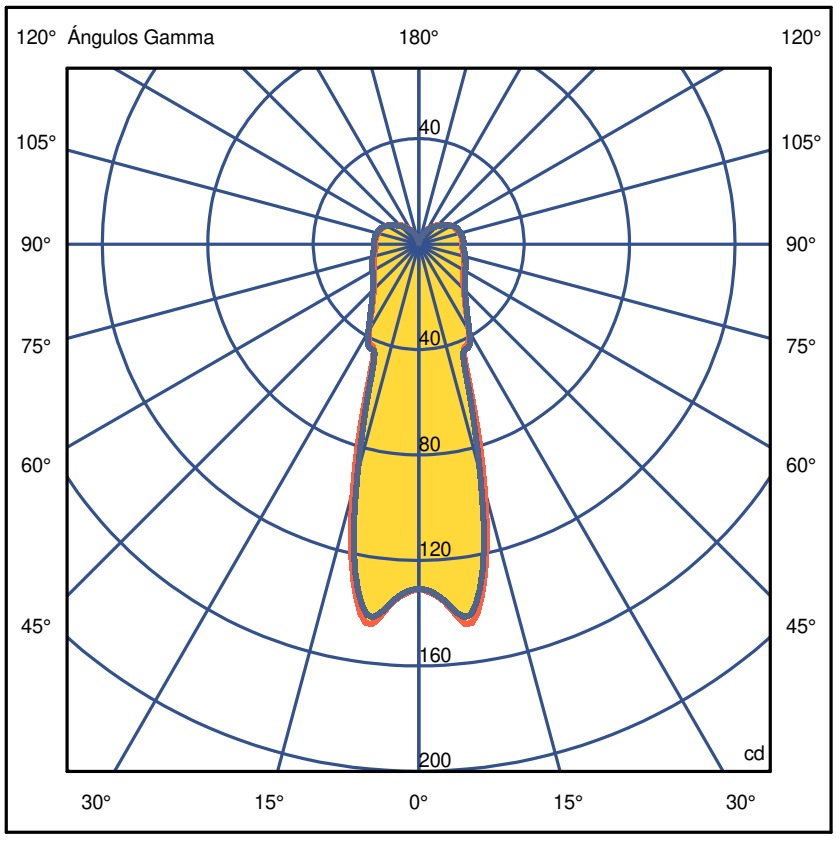


Diam=490mm





ULOR 31.01 %
DLOR 68.99 %
RN 31.01 %



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Flujo Luminaria	251 lm	Potencia Luminaria	5.5 W	Eficacia	45.636 lm/W	Eficiencia	100.00%
Flujo Fuente	251 lm	Valor Máximo	145.57 cd	Posición	C=0.00 G=7.50	CG	Bisimétrico

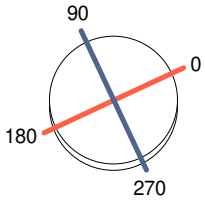
Tabla de Intensidad Luminosa cd **Tabla 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	130.60772	130.60772	130.60772	130.60772	130.60772	130.60772	130.60772
G 2.5	132.97579	133.02829	133.25144	133.32825	133.04980	132.63958	132.42915
G 5.0	138.67409	138.81741	139.29795	139.51538	139.06958	138.36135	137.99171
G 7.5	145.57456	145.25238	144.89467	144.46590	143.47737	142.61075	142.58336
G 10.0	136.40767	136.26923	135.46853	134.48587	133.72221	133.26100	133.10635
G 12.5	118.94350	117.72929	115.88350	114.33945	113.77775	113.86819	114.02787
G 15.0	96.60595	95.85507	94.62642	93.07582	91.41306	90.06374	89.50740
G 17.5	74.51669	74.29420	73.51417	72.22217	70.48507	68.87406	68.45690
G 20.0	55.72789	55.72960	55.08162	53.94105	52.93244	52.14201	51.82239
G 22.5	44.64745	44.59346	44.24658	43.90291	43.86632	43.86367	43.86516
G 25.0	42.43629	42.57729	42.77021	43.00675	43.26662	43.48148	43.57095
G 27.5	41.17613	41.37269	41.52798	41.60075	41.70842	41.80380	41.94511
G 30.0	37.95817	38.19004	38.31019	38.21549	38.23384	38.23533	38.33502
G 32.5	34.46811	34.69647	34.82483	34.75245	34.76072	34.74319	34.81826
G 35.0	31.42837	31.65516	31.80661	31.78797	31.83338	31.84958	31.93315
G 37.5	29.04292	29.25635	29.40819	29.41451	29.46979	29.49525	29.57284
G 40.0	27.08793	27.28156	27.42504	27.45135	27.54477	27.61160	27.70352
G 42.5	25.44301	25.55265	25.67741	25.80147	25.94214	26.04905	26.09150
G 45.0	24.09692	24.23121	24.38017	24.48605	24.63086	24.73758	24.77916
G 47.5	22.97343	23.09974	23.24718	23.35869	23.51226	23.62796	23.67366
G 50.0	22.01632	22.13397	22.27496	22.39063	22.55314	22.68054	22.73207
G 52.5	21.22793	21.33398	21.47214	21.59164	21.76045	21.89410	21.94846
G 55.0	20.55362	20.66268	20.80661	20.93125	21.09580	21.22252	21.27324
G 57.5	20.04049	20.11340	20.24557	20.40563	20.56176	20.68038	20.72748
G 60.0	19.57665	19.66399	19.81569	19.98873	20.14339	20.25320	20.29496
G 62.5	19.17364	19.25434	19.40938	19.59753	19.77826	19.91384	19.96725
G 65.0	18.82640	18.89682	19.04569	19.23788	19.43572	19.59136	19.65444
G 67.5	18.52186	18.59633	18.74663	18.92599	19.09082	19.21013	19.25609
G 70.0	18.23623	18.30744	18.44773	18.60846	18.74648	18.84071	18.87558
G 72.5	17.93133	17.99638	18.12677	18.27645	18.40471	18.49206	18.52433
G 75.0	17.62650	17.69259	17.82422	17.97167	18.09213	18.17045	18.19839
G 77.5	17.32593	17.39490	17.52801	17.67293	17.78562	17.85516	17.87892
G 80.0	17.04111	17.11097	17.24225	17.38302	17.48999	17.55432	17.57581
G 82.5	16.76513	16.83615	16.96808	17.10674	17.20766	17.26522	17.28350
G 85.0	16.49789	16.56975	16.70024	16.83698	16.93689	16.99421	17.01252
G 87.5	16.42389	16.48811	16.61441	16.74667	16.83936	16.88944	16.90445
G 90.0	16.49346	16.55950	16.68587	16.81672	16.90695	16.95463	16.96856
G 92.5	16.51538	16.58173	16.70694	16.83640	16.92600	16.97360	16.98761
G 95.0	16.52387	16.58326	16.70171	16.82624	16.91387	16.96144	16.97578
G 97.5	16.50859	16.55313	16.64796	16.75790	16.85195	16.91581	16.93934
G100.0	16.41025	16.44808	16.53204	16.63478	16.73062	16.80072	16.82790
G102.5	16.26343	16.29363	16.36619	16.46070	16.55633	16.63055	16.66039
G105.0	16.07869	16.08406	16.13306	16.24481	16.32775	16.39347	16.46689
G107.5	15.87434	15.88729	15.93413	16.01403	16.11914	16.21363	16.25464
G110.0	15.63592	15.66581	15.72613	15.80802	15.89937	15.97501	16.00654
G112.5	15.37126	15.41704	15.49353	15.57696	15.64648	15.69283	15.70969
G115.0	15.04519	15.11213	15.20925	15.28435	15.28286	15.25195	15.26638
G117.5	14.62869	14.71440	14.82249	14.87737	14.81434	14.71712	14.69037
G120.0	14.10935	14.23407	14.33858	14.34777	14.22448	14.06418	14.00031
G122.5	13.51420	13.64697	13.75457	13.75190	13.58383	13.37487	13.27953
G125.0	12.88528	13.02130	13.12225	13.09796	12.90108	12.65005	12.52610
G127.5	12.22732	12.35248	12.46567	12.44084	12.20733	11.91599	11.77305
G130.0	11.56829	11.69675	11.80646	11.76908	11.51393	11.20113	11.04846
G132.5	10.90675	11.03383	11.13780	11.08897	10.81689	10.48809	10.32832
G135.0	10.25283	10.36489	10.45070	10.39091	10.12188	9.80285	9.64874
G137.5	9.58707	9.68924	9.76367	9.69821	9.43380	9.12376	8.97455
G140.0	8.91834	9.00815	9.06432	8.99194	8.74295	8.45687	8.32008
G142.5	8.23792	8.31883	8.37027	8.30547	8.08030	7.82121	7.69727
G145.0	7.55904	7.62824	7.66338	7.60132	7.41213	7.19877	7.09739
G147.5	6.88073	6.93346	6.95950	6.91015	6.76243	6.59630	6.51744
G150.0	6.19643	6.24110	6.25784	6.21400	6.09588	5.96558	5.90414
G152.5	5.52405	5.54888	5.54761	5.51295	5.44535	5.37614	5.34438
G155.0	4.86092	4.87510	4.86779	4.84267	4.80563	4.77117	4.75597
G157.5	4.18264	4.19361	4.19084	4.18356	4.17916	4.17776	4.17768
G160.0	3.52545	3.54141	3.54842	3.55818	3.57826	3.59980	3.60986
G162.5	2.90468	2.91950	2.93437	2.95950	2.99984	3.03952	3.05744
G165.0	2.32333	2.34282	2.36743	2.40377	2.45367	2.49980	2.52009
G167.5	1.78226	1.80661	1.83859	1.88228	1.93743	1.98653	2.00774
G170.0	1.31020	1.33969	1.37149	1.40745	1.44702	1.48000	1.49380
G172.5	0.88952	0.92869	0.96053	0.98103	1.00718	1.02679	1.03451
G175.0	0.52075	0.55551	0.58341	0.60020	0.61284	0.61893	0.62051
G177.5	0.28156	0.29136	0.29857	0.30137	0.30088	0.29848	0.29703
G180.0	0.22431	0.22431	0.22431	0.22431	0.22431	0.22431	0.22431

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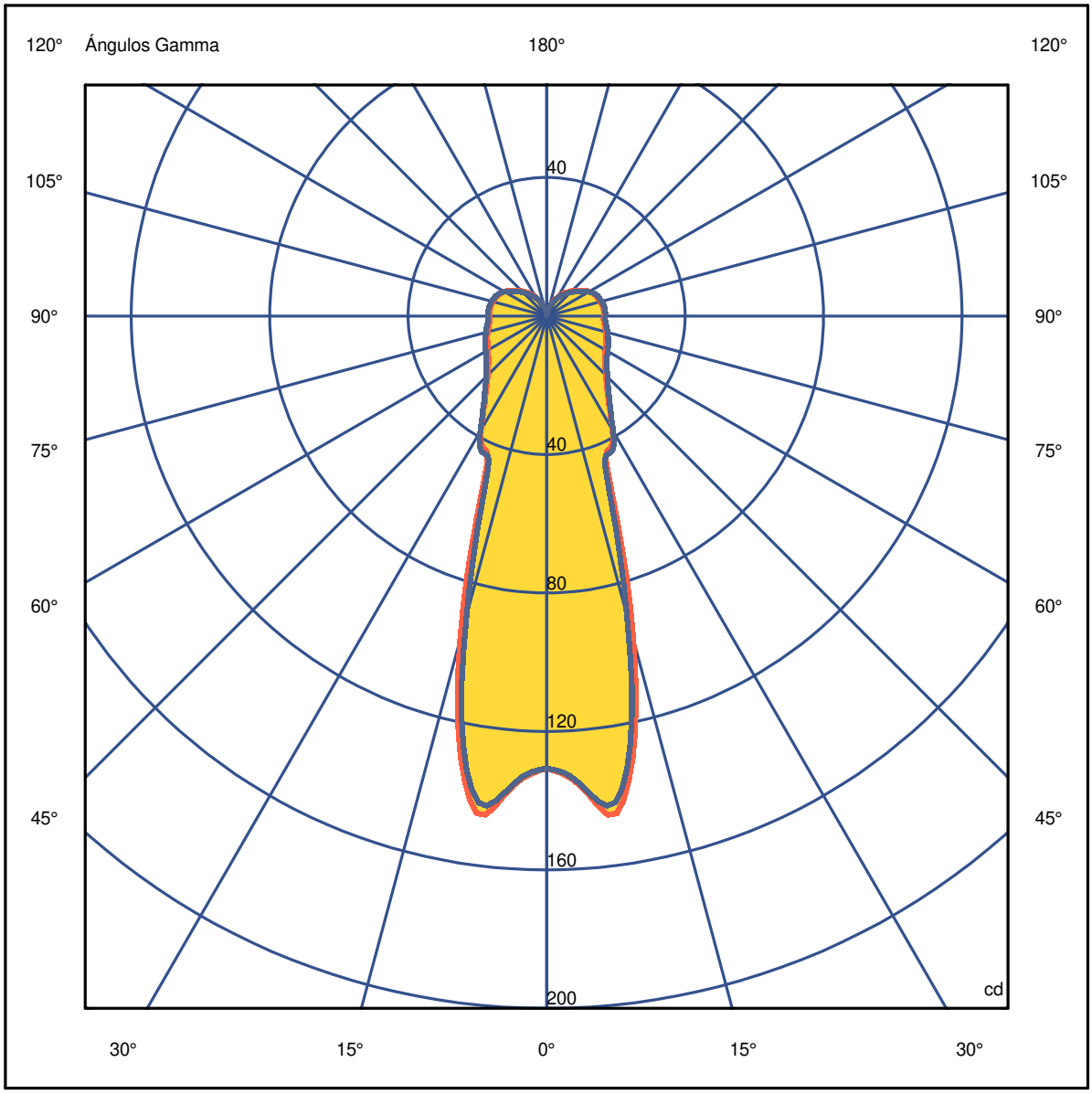
Flujo Luminaria	251 lm	Potencia Luminaria	5.5 W	Eficacia	45.636 lm/W	Eficiencia	100.00%
Flujo Fuente	251 lm	Valor Máximo	145.57 cd	Posición	C=0.00 G=7.50	CG	Bisimétrico

Diam=490mm



Semiplanos C

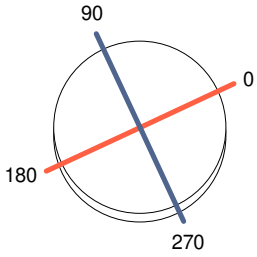




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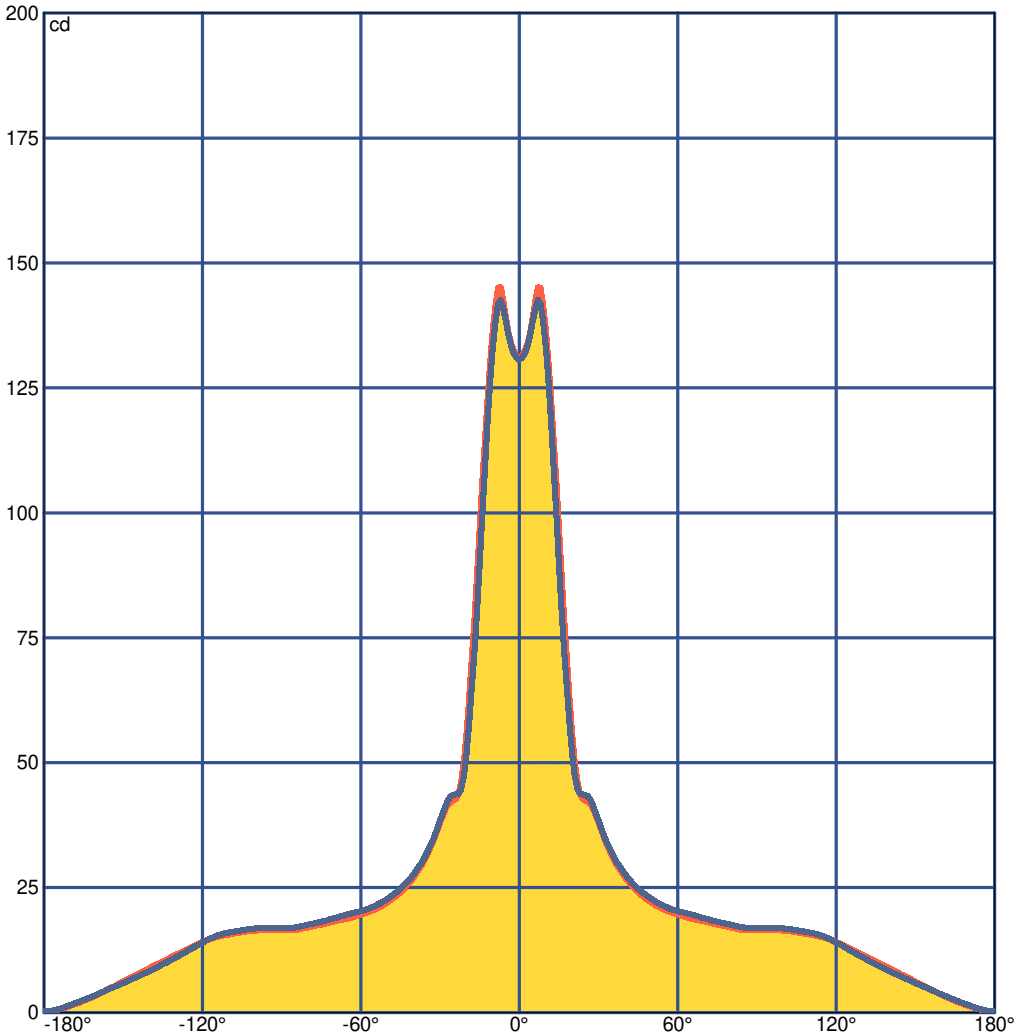
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Semiplanos C





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Flujo Fuente	251 lm	Valor Máximo	145.57 cd	Posición	C=0.00 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 Loca	Vista Lateral					Vista Longitudinal				
x=2H y=2H	< 0	0.8	0.5	1.5	2.3	< 0	1.0	0.7	1.7	2.5
x=2H y=3H	1.7	2.7	2.5	3.4	4.2	1.9	2.8	2.7	3.6	4.4
x=2H y=4H	2.8	3.6	3.5	4.4	5.3	3.0	3.8	3.7	4.6	5.4
x=2H y=6H	3.8	4.6	4.6	5.3	6.3	4.0	4.8	4.8	5.5	6.5
x=2H y=8H	4.3	5.1	5.1	5.8	6.7	4.5	5.3	5.3	6.0	6.9
x=2H y=12H	4.8	5.5	5.6	6.3	7.2	5.0	5.7	5.8	6.5	7.4
x=4H y=2H	0.5	1.3	1.2	2.1	3.0	0.6	1.4	1.3	2.2	3.1
x=4H y=3H	2.7	3.4	3.4	4.2	5.1	2.8	3.5	3.6	4.3	5.2
x=4H y=4H	3.8	4.5	4.6	5.3	6.3	4.0	4.7	4.8	5.5	6.4
x=4H y=6H	5.1	5.6	5.9	6.5	7.4	5.2	5.8	6.0	6.6	7.6
x=4H y=8H	5.6	6.2	6.5	7.0	8.0	5.8	6.4	6.6	7.2	8.2
x=4H y=12H	6.2	6.7	7.1	7.6	8.6	6.4	6.9	7.2	7.7	8.8
x=8H y=4H	4.3	4.8	5.1	5.7	6.7	4.4	5.0	5.3	5.8	6.8
x=8H y=6H	5.7	6.2	6.6	7.1	8.1	5.9	6.3	6.7	7.2	8.2
x=8H y=8H	6.5	6.9	7.4	7.8	8.8	6.6	7.0	7.5	7.9	9.0
x=8H y=12H	7.2	7.6	8.1	8.5	9.6	7.4	7.8	8.3	8.6	9.7
x=12H y=4H	4.4	4.9	5.2	5.7	6.7	4.5	5.0	5.3	5.8	6.9
x=12H y=6H	5.9	6.3	6.8	7.2	8.2	6.0	6.4	6.9	7.3	8.4
x=12H y=8H	6.7	7.1	7.6	8.0	9.1	6.9	7.2	7.8	8.1	9.2

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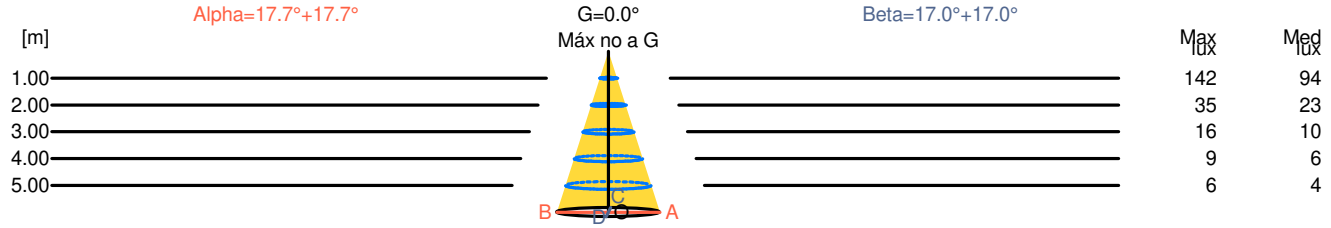
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Flujo Fuente	251 lm	Valor Máximo	145.57 cd	Posición	C=0.00 G=7.50	CG	Bisimétrico

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	0.32	0.64	0.96	1.28	1.60	OC	0.31	0.61	0.92	1.22	1.53
OB	0.32	0.64	0.96	1.28	1.60	OD	0.31	0.61	0.92	1.22	1.53

Intensidades Luminosas [cd]

	0	5	15	25	35	45	55	65	75	85
OA	130.61	138.67	96.61	42.44	31.43	24.10	20.55	18.83	17.63	16.50
OB	130.61	138.67	96.61	42.44	31.43	24.10	20.55	18.83	17.63	16.50
OC	130.61	137.99	89.51	43.57	31.93	24.78	21.27	19.65	18.20	17.01
OD	130.61	137.99	89.51	43.57	31.93	24.78	21.27	19.65	18.20	17.01



H[m]	D[m]	Max lux	Med lux	Alpha=17.7°+17.7°	G=0.0 Máx no a G
1.00	0.64	142	94		
2.00	1.28	35	23		
3.00	1.92	16	10		
4.00	2.56	9	6		
5.00	3.20	6	4		

H[m]	D[m]	Max lux	Med lux	Beta=17.0°+17.0°	G=0.0 Máx no a G
1.00	0.61	142	94		
2.00	1.22	35	23		
3.00	1.83	16	10		
4.00	2.44	9	6		
5.00	3.05	6	4		

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Flujo Total=251.00 Flujo Luminaria=251.00

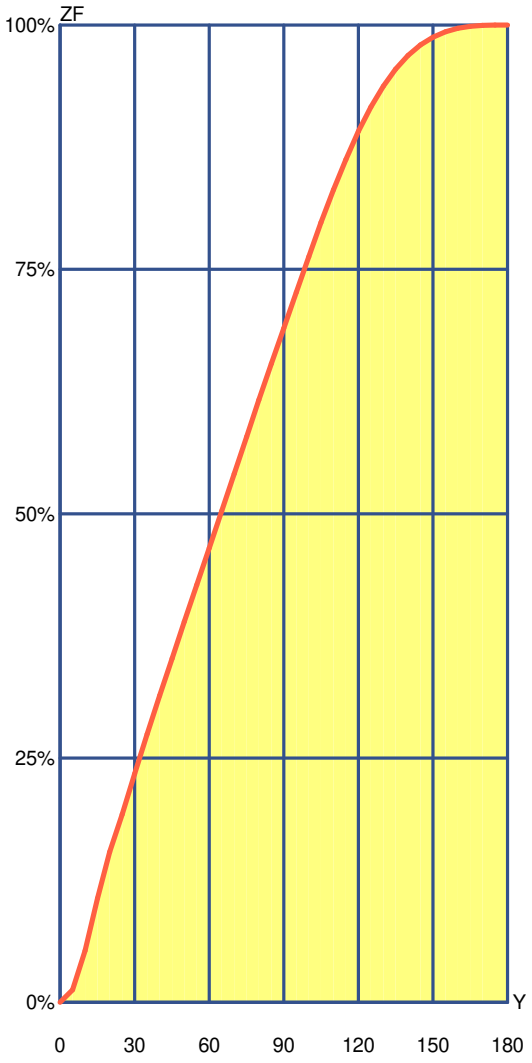
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.33	0.38	0.44	0.49	0.54	0.61	0.66	0.70	0.75	0.79	0.87	0.93
RC	5	5	5	6	6	6	7	7	7	7	7	7

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	154	234	314	390	465	541	616	690	763	831	891	937	969	988	997	1000	1000

Códigos de Flujo C.I.E.
47 67 84 69 100

C.I.E.	5/5/5/6/6/6/7/7/7/7/7/7	LOR	100.00000 %
D DIN 5040	B31	ULOR	31.00652 %
F UTE	0.69 E + 0.31 T	DLOR	68.99348 %
B NBN	BZ 4 / 0.8 / BZ 5 / 2.5 / BZ 6	UFF	31.00652 %
RN	31.00652 %	DFF	68.99348 %
BLF	1.0	FFR	44.94123 %



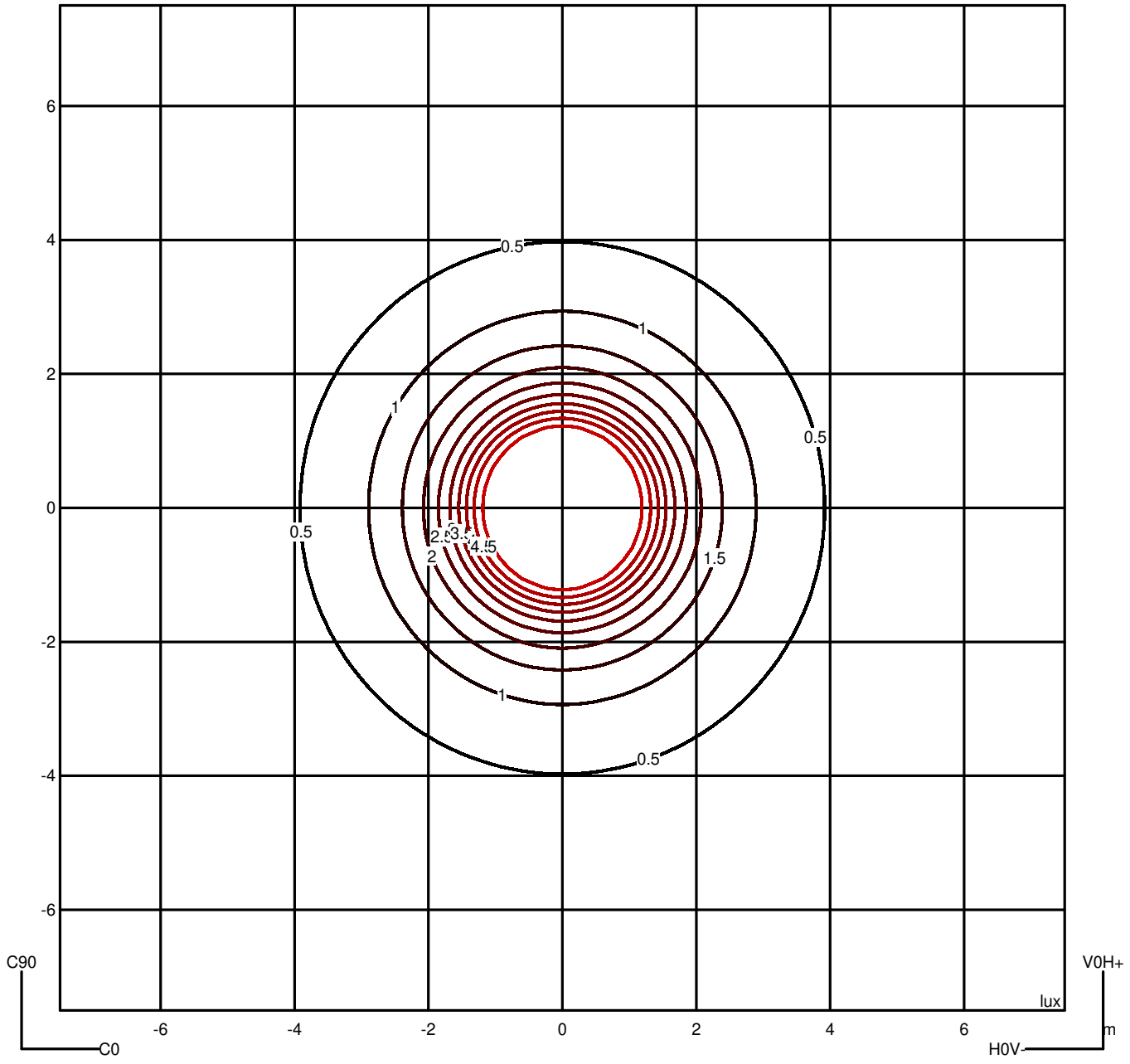
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	12.85	12.85	1.29 %	1.29 %
10°	39.99	52.84	4.00 %	5.28 %
15°	53.68	106.52	5.37 %	10.65 %
20°	47.26	153.78	4.73 %	15.38 %
25°	38.57	192.35	3.86 %	19.23 %
30°	41.40	233.75	4.14 %	23.37 %
35°	40.85	274.60	4.08 %	27.46 %
40°	39.18	313.77	3.92 %	31.38 %
45°	38.16	351.94	3.82 %	35.19 %
50°	37.66	389.60	3.77 %	38.96 %
55°	37.48	427.08	3.75 %	42.71 %
60°	37.61	464.69	3.76 %	46.47 %
65°	37.95	502.64	3.80 %	50.26 %
70°	38.15	540.80	3.82 %	54.08 %
75°	38.03	578.82	3.80 %	57.88 %
80°	37.61	616.44	3.76 %	61.64 %
85°	36.96	653.40	3.70 %	65.34 %
90°	36.54	689.93	3.65 %	68.99 %
95°	36.63	726.56	3.66 %	72.66 %
100°	36.21	762.78	3.62 %	76.28 %
105°	35.07	797.85	3.51 %	79.78 %
110°	33.40	831.24	3.34 %	83.12 %
115°	31.35	862.60	3.14 %	86.26 %
120°	28.56	891.15	2.86 %	89.12 %
125°	25.01	916.16	2.50 %	91.62 %
130°	21.20	937.37	2.12 %	93.74 %
135°	17.50	954.87	1.75 %	95.49 %
140°	14.02	968.89	1.40 %	96.89 %
145°	10.84	979.73	1.08 %	97.97 %
150°	8.00	987.73	0.80 %	98.77 %
155°	5.54	993.27	0.55 %	99.33 %
160°	3.52	996.79	0.35 %	99.68 %
165°	1.97	998.76	0.20 %	99.88 %
170°	0.91	999.67	0.09 %	99.97 %
175°	0.29	999.96	0.03 %	100.00 %
180°	0.04	1000.00	0.00 %	100.00 %

Luminaria
Código 37802318189
Nombre KANDO_P111R_2200K_WHITE_RIBBON_37802318189
Ensayo
Código CL092A24D019GP
Nombre KANDO_P111R_2200K_WHITE_RIBBON_37802318189

Flujo Luminaria	251 lm	Potencia Luminaria	5.5 W	Eficacia	45.636 lm/W	Eficiencia	100.00%
Flujo Fuente	251 lm	Valor Máximo	145.57 cd	Posición	C=0.00 G=7.50	CG	Bisimétrico

Isolux (Suelo)

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



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Flujo Fuente	251 lm	Valor Máximo	145.57 cd	Posición	C=0.00 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]*

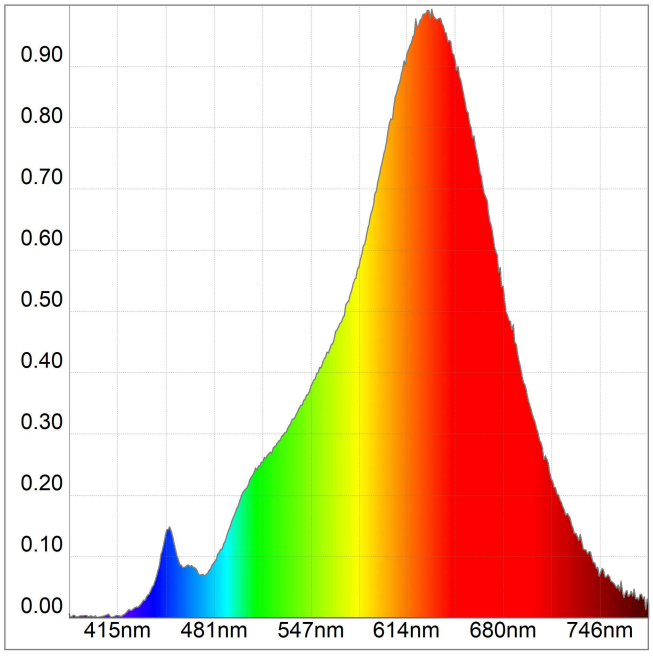
CRI8(Ra) [93.8]* CRI15(Rav) [92.2]*

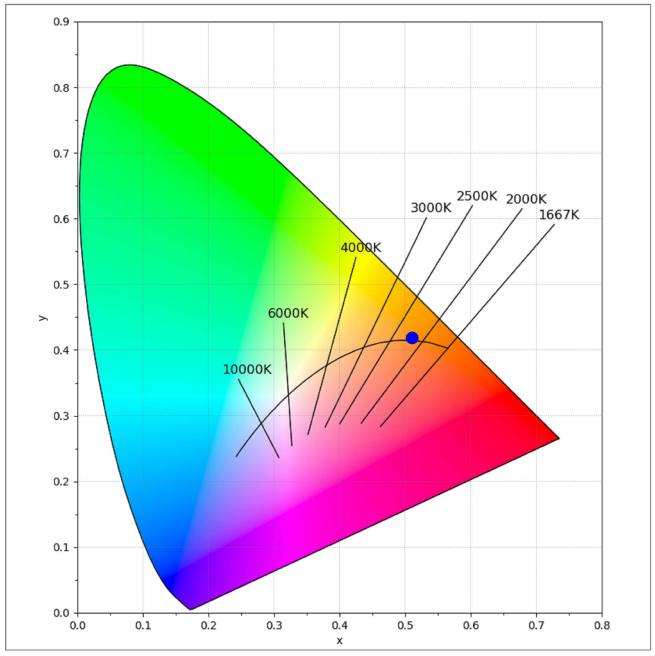
R 1: 94.5	R 2: 98.1	R 3: 99.2	R 4: 95.7	R 5: 95.2
R 6: 97.5	R 7: 90.4	R 8: 79.8	R 9: 58.8	R10: 95.3
R11: 99.3	R12: 95.7	R13: 95.7	R14: 98.9	R15: 88.3

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

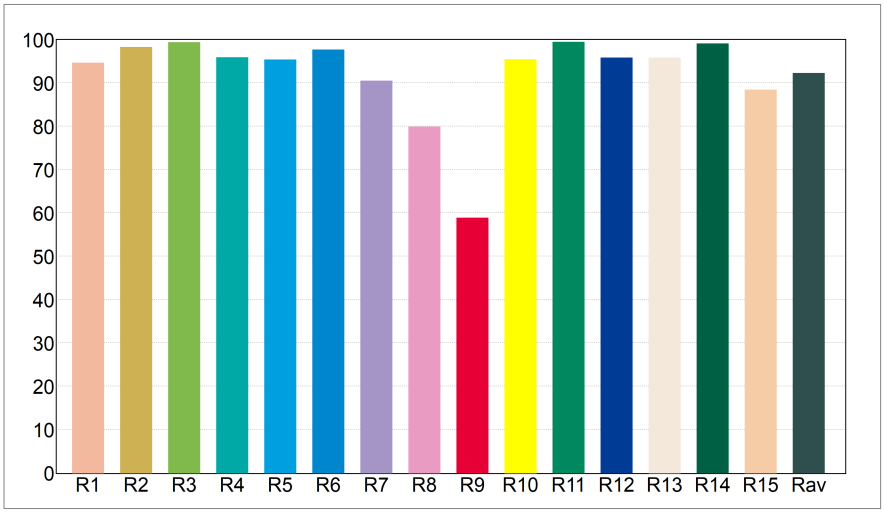


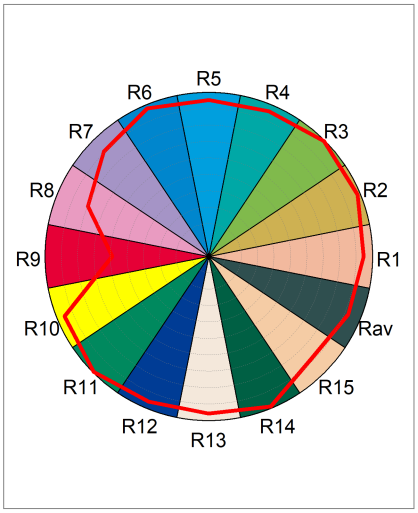


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Flujo Fuente	251 lm	Valor Máximo	145.57 cd	Posición	C=0.00 G=7.50	CG	Bisimétrico

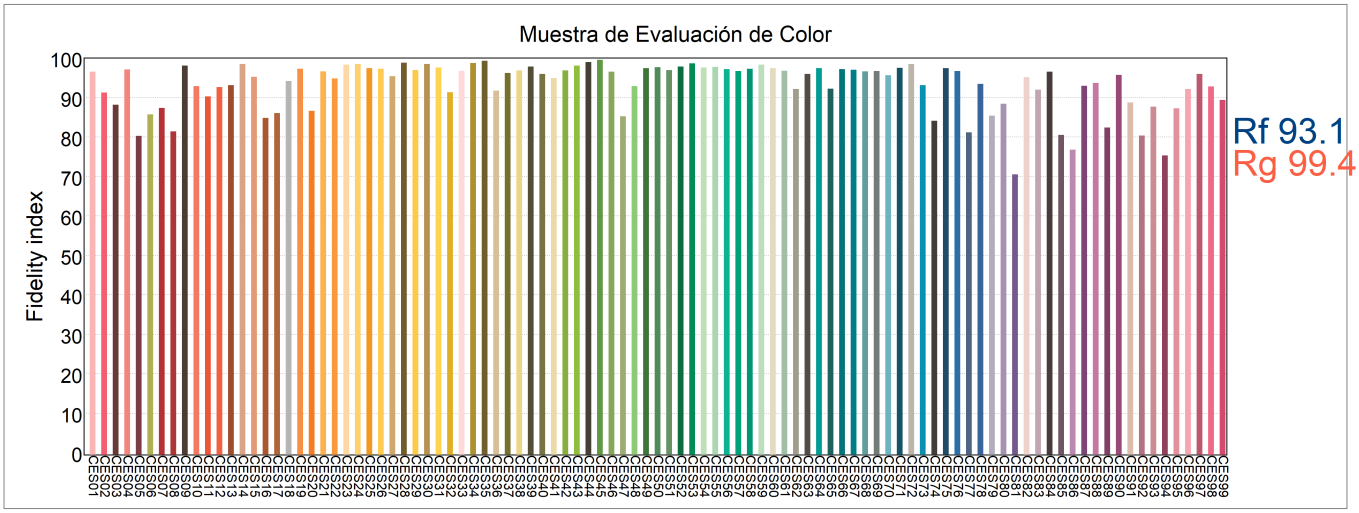
Gráficos del IRC





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Flujo Fuente	251 lm	Valor Máximo	145.57 cd	Posición	C=0.00 G=7.50	CG	Bisimétrico



Coordenadas de Cromaticidad (a' b') 99 muestras

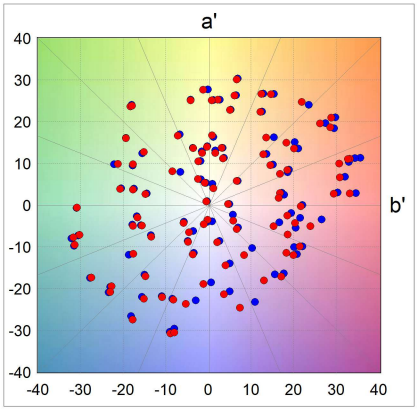


Gráfico Vectorial de Color

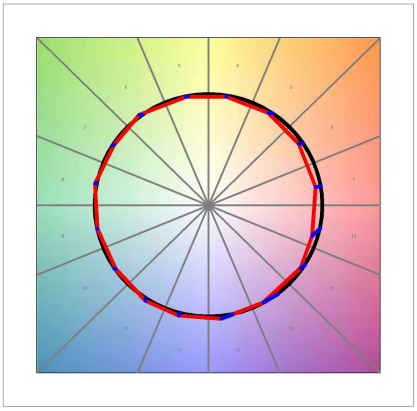


Gráfico de Distorsión de Color

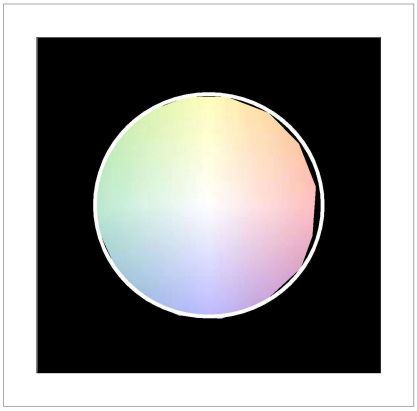


Diagrama Rf vs Rg

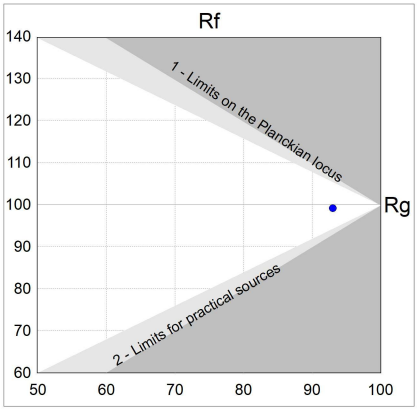
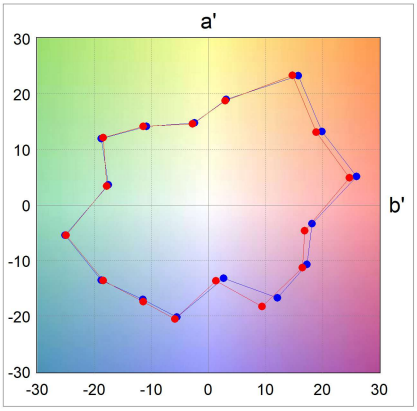


Diagrama Gamut



Cambios por Bin

