Luminaria

Código	37802318189
Nombre	KANDO_P111R_2400K_WHITE_RIBBON_37802318189
Familia	OxyTech

Ensayo

Código	CL092A24D019GP
Nombre	KANDO_P111R_2400K_WHITE_RIBBON_37802318189

Datos Fuente de luz

Código	37802318189	Temp. de Color Correlacionada (TCP)	2385K	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	5.10 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

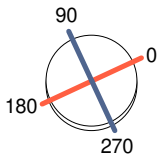
Luminaria Redonda	Diam.	490 mm	Altura	1110 mm	
Área Luminosa Redonda	Diam.	410 mm	Altura	810 mm	
Área Luminosa Horizontal	0.132025 m2		Área Emisión sobre Pl. 180°	0.332100 m2	
Área Emisión sobre Pl. 0°	0.332100 m2		Área Emisión sobre Pl. 270°	0.332100 m2	
Área Emisión sobre Pl. 90°	0.332100 m2		Área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

Análisis Fotométrico

Flujo Luminaria	261.0 lm	Flujo Fuente	261.0 lm
Eficacia	51.176 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

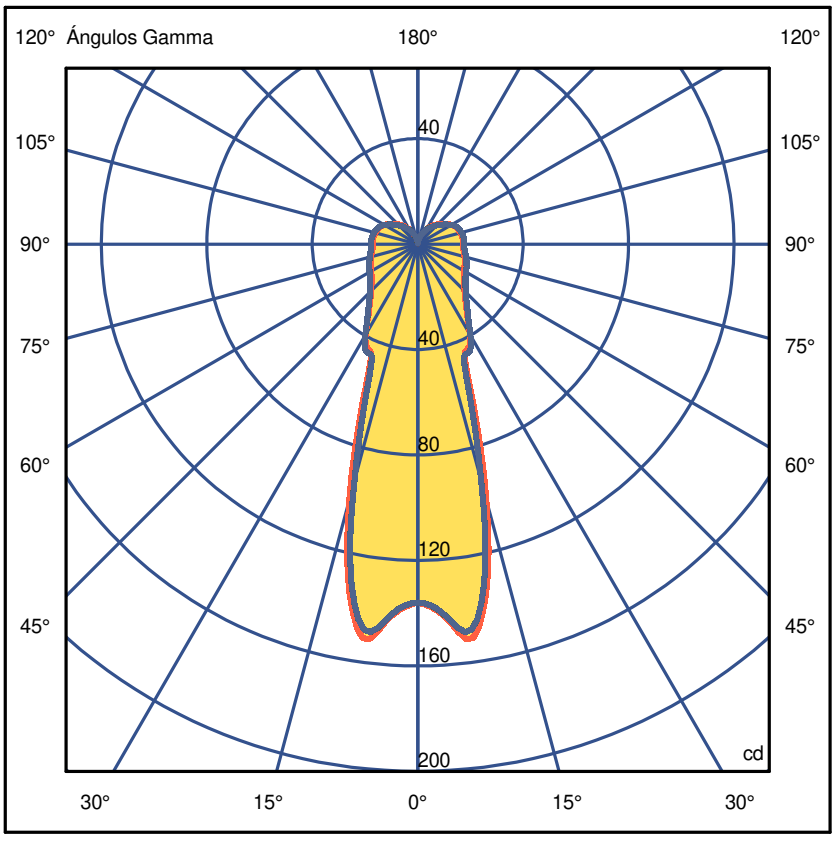


Diam=490mm





ULOR 31.01 %
DLOR 68.99 %
RN 31.01 %



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Flujo Luminaria	261 lm	Potencia Luminaria	5.1 W	Eficacia	51.176 lm/W	Eficiencia	100.00%
Flujo Fuente	261 lm	Valor Máximo	151.37 cd	Posición	C=0.00 G=7.50	CG	Bisimétrico

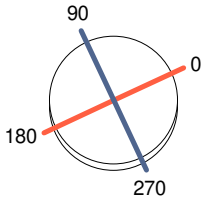
Tabla de Intensidad Luminosa cd **Tabla 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	135.81121	135.81121	135.81121	135.81121	135.81121	135.81121	135.81121
G 2.5	138.27363	138.32822	138.56027	138.64013	138.35059	137.92402	137.70521
G 5.0	144.19896	144.34798	144.84767	145.07376	144.61020	143.87375	143.48939
G 7.5	151.37434	151.03933	150.66737	150.22151	149.19359	148.29245	148.26398
G 10.0	141.84224	141.69828	140.86568	139.84388	139.04978	138.57020	138.40939
G 12.5	123.68228	122.41970	120.50038	118.89481	118.31073	118.40477	118.57081
G 15.0	100.45479	99.67400	98.39640	96.78402	95.05502	93.65194	93.07343
G 17.5	77.48548	77.25413	76.44302	75.09955	73.29324	71.61804	71.18427
G 20.0	57.94812	57.94990	57.27610	56.09010	55.04131	54.21938	53.88703
G 22.5	46.42624	46.37009	46.00939	45.65203	45.61398	45.61123	45.61278
G 25.0	44.12698	44.27359	44.47420	44.72017	44.99039	45.21381	45.30684
G 27.5	42.81661	43.02100	43.18248	43.25815	43.37011	43.46929	43.61623
G 30.0	39.47045	39.71156	39.83649	39.73802	39.75711	39.75865	39.86231
G 32.5	35.84135	36.07880	36.21228	36.13701	36.14561	36.12738	36.20544
G 35.0	32.68049	32.91632	33.07381	33.05442	33.10164	33.11849	33.20538
G 37.5	30.20001	30.42194	30.57983	30.58641	30.64389	30.67036	30.75104
G 40.0	28.16713	28.36847	28.51768	28.54503	28.64217	28.71167	28.80725
G 42.5	26.45668	26.57069	26.70042	26.82942	26.97570	27.08686	27.13100
G 45.0	25.05695	25.19660	25.35149	25.46159	25.61217	25.72314	25.76637
G 47.5	23.88871	24.02005	24.17337	24.28932	24.44900	24.56931	24.61684
G 50.0	22.89347	23.01580	23.16241	23.28269	23.45167	23.58415	23.63773
G 52.5	22.07366	22.18394	22.32761	22.45187	22.62740	22.76638	22.82290
G 55.0	21.37249	21.48589	21.63556	21.76516	21.93627	22.06804	22.12078
G 57.5	20.83891	20.91473	21.05217	21.21860	21.38095	21.50430	21.55328
G 60.0	20.35660	20.44742	20.60516	20.78509	20.94592	21.06010	21.10352
G 62.5	19.93753	20.02145	20.18267	20.37831	20.56624	20.70722	20.76276
G 65.0	19.57645	19.64968	19.80448	20.00433	20.21005	20.37189	20.43748
G 67.5	19.25979	19.33722	19.49350	19.68001	19.85141	19.97548	20.02326
G 70.0	18.96277	19.03682	19.18270	19.34983	19.49335	19.59134	19.62760
G 72.5	18.64573	18.71337	18.84895	19.00459	19.13796	19.22880	19.26235
G 75.0	18.32875	18.39748	18.53435	18.68767	18.81293	18.89437	18.92342
G 77.5	18.01620	18.08793	18.22634	18.37703	18.49421	18.56652	18.59123
G 80.0	17.72004	17.79268	17.92919	18.07557	18.18680	18.25369	18.27604
G 82.5	17.43306	17.50692	17.64410	17.78828	17.89323	17.95308	17.97208
G 85.0	17.15518	17.22989	17.36559	17.50778	17.61166	17.67127	17.69031
G 87.5	17.07822	17.14501	17.27634	17.41386	17.51025	17.56232	17.57793
G 90.0	17.15057	17.21924	17.35065	17.48670	17.58054	17.63011	17.64460
G 92.5	17.17336	17.24235	17.37256	17.50718	17.60034	17.64984	17.66441
G 95.0	17.18219	17.24395	17.36711	17.49661	17.58773	17.63719	17.65211
G 97.5	17.16630	17.21262	17.31122	17.42555	17.52334	17.58974	17.61422
G100.0	17.06404	17.10338	17.19069	17.29752	17.39718	17.47007	17.49834
G102.5	16.91138	16.94278	17.01823	17.11651	17.21595	17.29312	17.32415
G105.0	16.71928	16.72486	16.77581	16.89202	16.97826	17.04659	17.12294
G107.5	16.50678	16.52025	16.56896	16.65204	16.76134	16.85959	16.90224
G110.0	16.25886	16.28995	16.35267	16.43782	16.53281	16.61147	16.64425
G112.5	15.98367	16.03126	16.11080	16.19756	16.26984	16.31805	16.33558
G115.0	15.64460	15.71420	15.81520	15.89329	15.89174	15.85959	15.87460
G117.5	15.21151	15.30064	15.41303	15.47009	15.40455	15.30346	15.27565
G120.0	14.67147	14.80117	14.90984	14.91939	14.79119	14.62451	14.55809
G122.5	14.05262	14.19067	14.30256	14.29978	14.12502	13.90774	13.80860
G125.0	13.39864	13.54008	13.64505	13.61979	13.41507	13.15404	13.02515
G127.5	12.71447	12.84461	12.96231	12.93649	12.69368	12.39073	12.24210
G130.0	12.02918	12.16276	12.27684	12.23796	11.97265	11.64739	11.48864
G132.5	11.34128	11.47343	11.58154	11.53076	11.24784	10.90594	10.73980
G135.0	10.66131	10.77784	10.86706	10.80489	10.52515	10.19340	10.03315
G137.5	9.96902	10.07526	10.15266	10.08459	9.80965	9.48726	9.33210
G140.0	9.27365	9.36704	9.42545	9.35018	9.09127	8.79379	8.65156
G142.5	8.56613	8.65026	8.70375	8.63637	8.40223	8.13281	8.00393
G145.0	7.86020	7.93215	7.96869	7.90416	7.70744	7.48557	7.38015
G147.5	7.15487	7.20969	7.23677	7.18546	7.03185	6.85910	6.77710
G150.0	6.44330	6.48975	6.50716	6.46157	6.33875	6.20326	6.13937
G152.5	5.74413	5.76995	5.76863	5.73259	5.66230	5.59033	5.55731
G155.0	5.05458	5.06933	5.06172	5.03561	4.99709	4.96125	4.94546
G157.5	4.34928	4.36068	4.35781	4.35024	4.34566	4.34421	4.34412
G160.0	3.66591	3.68250	3.68980	3.69994	3.72082	3.74322	3.75368
G162.5	3.02041	3.03581	3.05128	3.07740	3.11936	3.16062	3.17925
G165.0	2.41590	2.43616	2.46175	2.49954	2.55142	2.59940	2.62049
G167.5	1.85327	1.87858	1.91184	1.95727	2.01462	2.06567	2.08773
G170.0	1.36240	1.39307	1.42613	1.46352	1.50467	1.53897	1.55331
G172.5	0.92496	0.96569	0.99880	1.02011	1.04731	1.06770	1.07573
G175.0	0.54150	0.57764	0.60666	0.62411	0.63726	0.64359	0.64523
G177.5	0.29278	0.30297	0.31047	0.31338	0.31287	0.31037	0.30887
G180.0	0.23325	0.23325	0.23325	0.23325	0.23325	0.23325	0.23325

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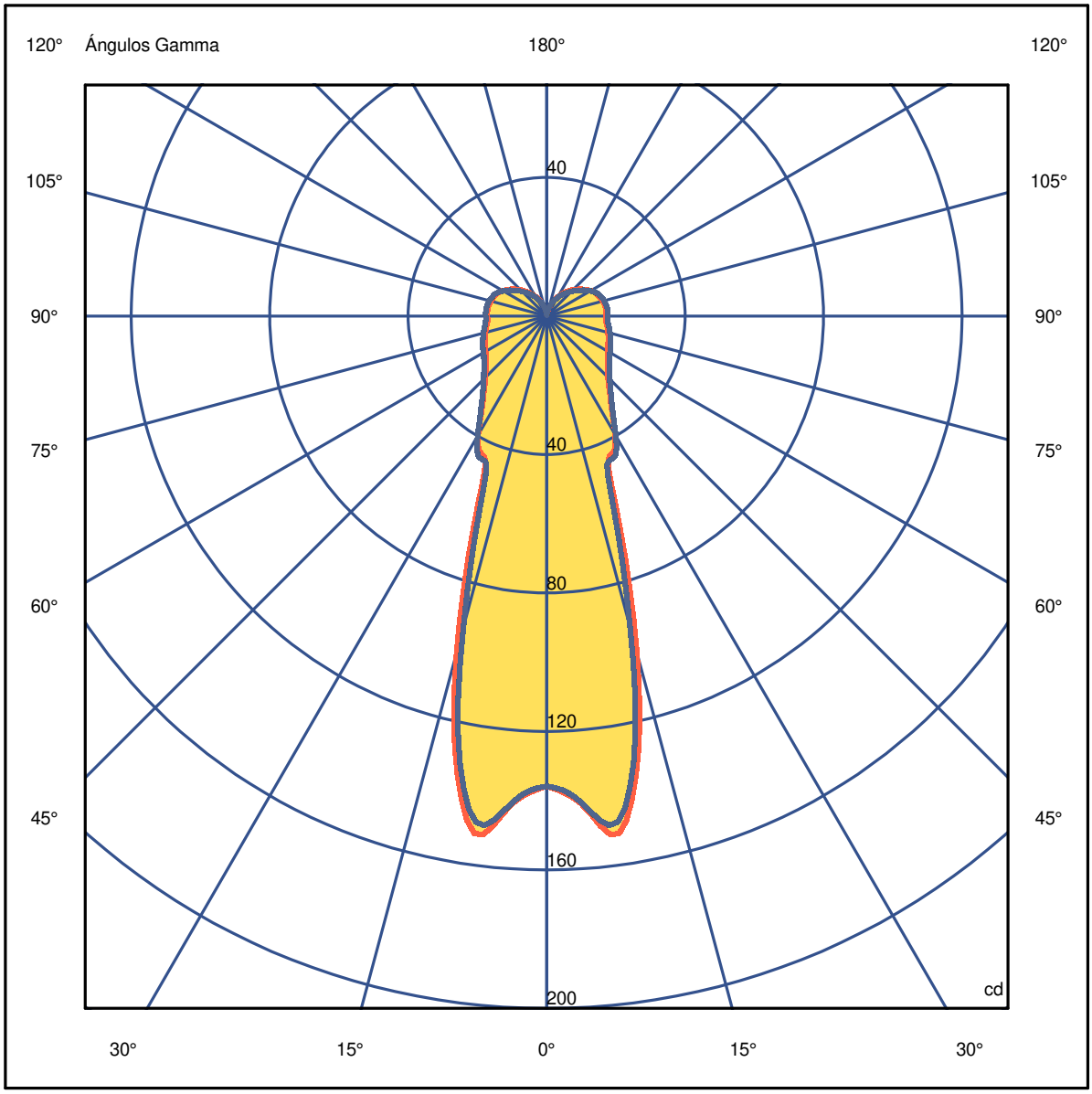
Flujo Luminaria	261 lm	Potencia Luminaria	5.1 W	Eficacia	51.176 lm/W	Eficiencia	100.00%
Flujo Fuente	261 lm	Valor Máximo	151.37 cd	Posición	C=0.00 G=7.50	CG	Bisimétrico

Diam=490mm



Semiplanos C

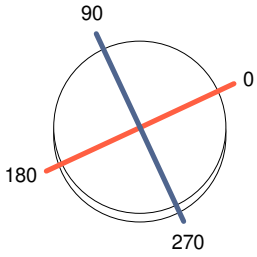




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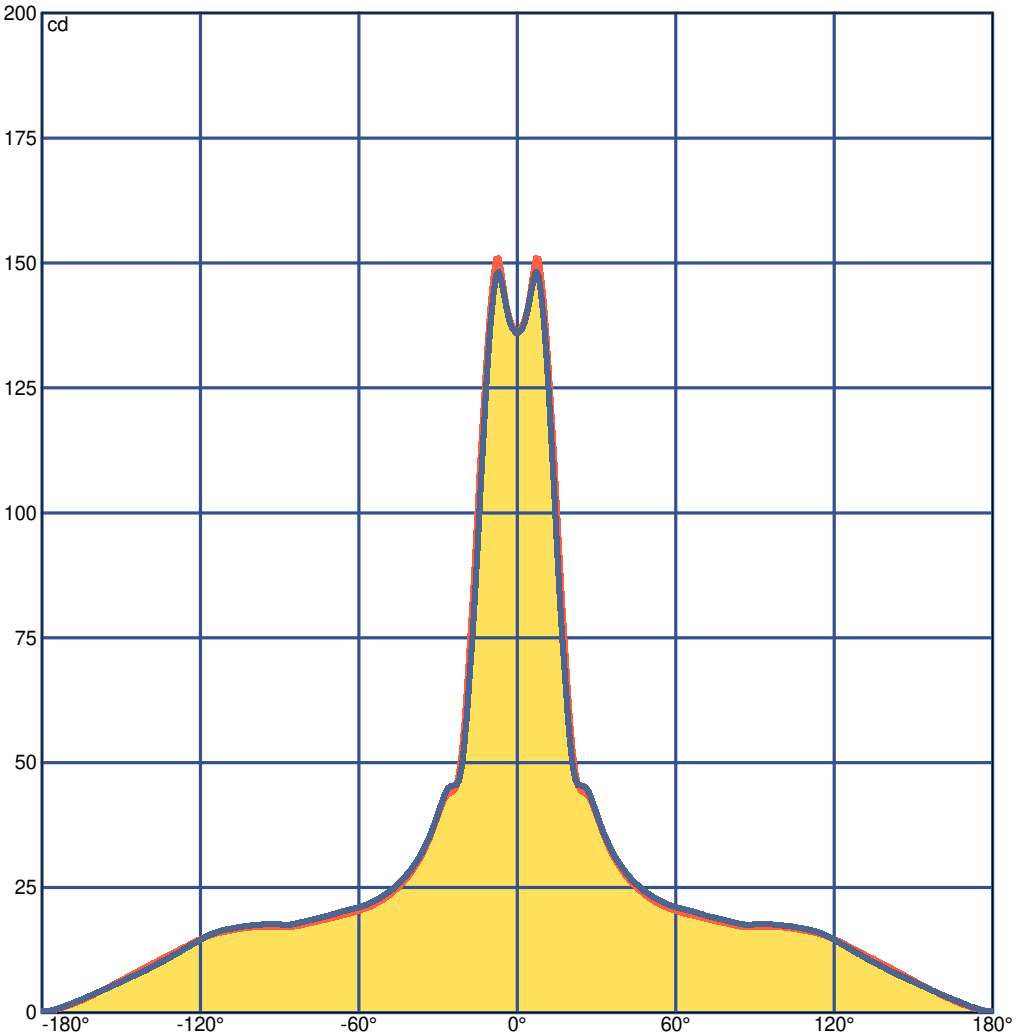
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Flujo Fuente	261 lm	Valor Máximo	151.37 cd	Posición	C=0.00 G=7.50	CG	Bisimétrico

Diam=490mm



Semiplanos C





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Flujo Fuente	261 lm	Valor Máximo	151.37 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	0.9	0.6	1.6	2.5	0.1	1.1	0.8	1.8	2.6
x=2H y=3H	1.9	2.8	2.6	3.5	4.4	2.1	3.0	2.8	3.7	4.5
x=2H y=4H	2.9	3.8	3.6	4.5	5.4	3.1	4.0	3.8	4.7	5.6
x=2H y=6H	3.9	4.7	4.7	5.5	6.4	4.1	4.9	4.9	5.7	6.6
x=2H y=8H	4.4	5.2	5.2	6.0	6.9	4.6	5.4	5.4	6.2	7.1
x=2H y=12H	4.9	5.7	5.7	6.4	7.4	5.1	5.9	5.9	6.6	7.6
x=4H y=2H	0.6	1.5	1.4	2.2	3.1	0.7	1.6	1.5	2.3	3.2
x=4H y=3H	2.8	3.5	3.6	4.3	5.2	2.9	3.7	3.7	4.4	5.4
x=4H y=4H	4.0	4.6	4.8	5.4	6.4	4.1	4.8	4.9	5.6	6.5
x=4H y=6H	5.2	5.8	6.0	6.6	7.6	5.4	5.9	6.2	6.8	7.8
x=4H y=8H	5.8	6.3	6.6	7.1	8.1	5.9	6.5	6.8	7.3	8.3
x=4H y=12H	6.4	6.9	7.2	7.7	8.7	6.5	7.0	7.4	7.9	8.9
x=8H y=4H	4.4	5.0	5.3	5.8	6.8	4.6	5.1	5.4	5.9	6.9
x=8H y=6H	5.9	6.3	6.7	7.2	8.2	6.0	6.5	6.9	7.3	8.4
x=8H y=8H	6.6	7.0	7.5	7.9	9.0	6.8	7.2	7.6	8.0	9.1
x=8H y=12H	7.4	7.7	8.3	8.6	9.7	7.5	7.9	8.4	8.8	9.9
x=12H y=4H	4.5	5.0	5.4	5.9	6.9	4.6	5.1	5.5	6.0	7.0
x=12H y=6H	6.1	6.5	6.9	7.3	8.4	6.2	6.6	7.0	7.4	8.5
x=12H y=8H	6.9	7.2	7.8	8.1	9.2	7.0	7.4	7.9	8.3	9.3

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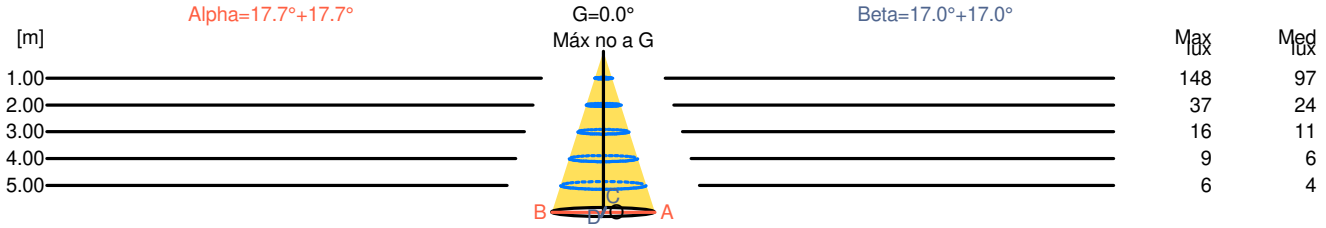
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Apertura a 50.00 % de Max Intensidad

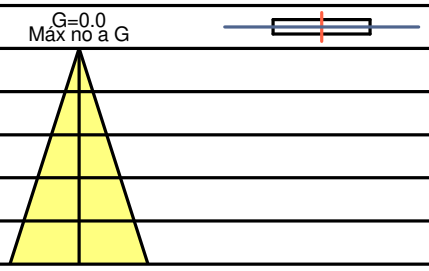
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	0.32	0.64	0.96	1.28	1.60	OC	0.31	0.61	0.92	1.22	1.53
OB	0.32	0.64	0.96	1.28	1.60	OD	0.31	0.61	0.92	1.22	1.53

Intensidades Luminosas [cd]

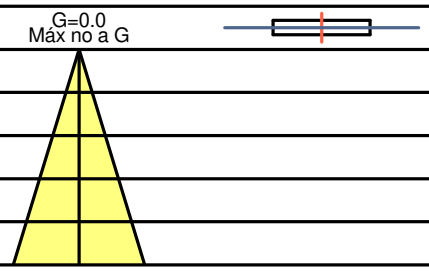
	0	5	15	25	35	45	55	65	75	85
OA	135.81	144.20	100.45	44.13	32.68	25.06	21.37	19.58	18.33	17.16
OB	135.81	144.20	100.45	44.13	32.68	25.06	21.37	19.58	18.33	17.16
OC	135.81	143.49	93.07	45.31	33.21	25.77	22.12	20.44	18.92	17.69
OD	135.81	143.49	93.07	45.31	33.21	25.77	22.12	20.44	18.92	17.69



H[m]	D[m]	Max lux	Med lux	Alpha=17.7°+17.7°
1.00	0.64	148	97	
2.00	1.28	37	24	
3.00	1.92	16	11	
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°
1.00	0.61	148	97	
2.00	1.22	37	24	
3.00	1.83	16	11	
4.00	2.44	9	6	
5.00	3.05	6	4	



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Flujo Total=261.00 Flujo Luminaria=261.00

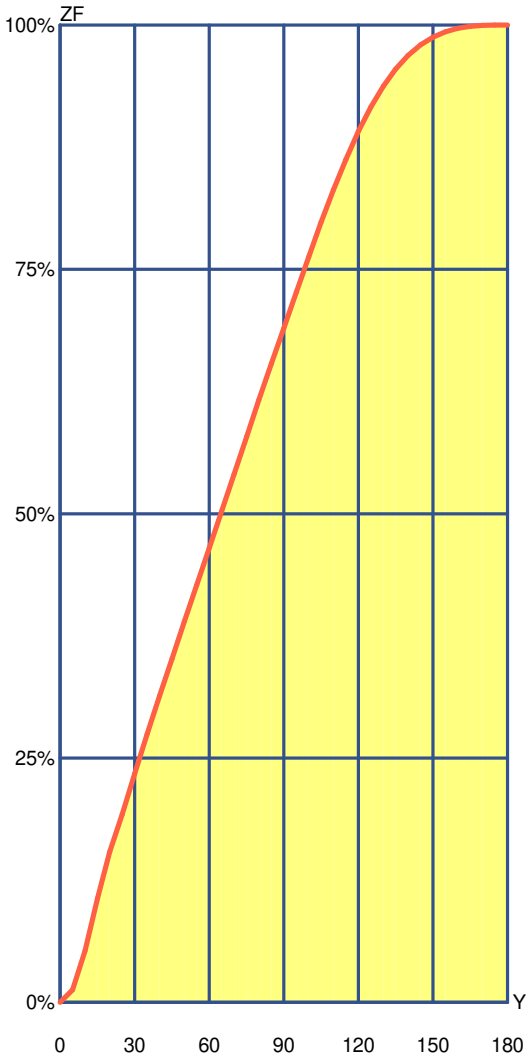
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.33	0.38	0.44	0.49	0.54	0.61	0.66	0.70	0.75	0.79	0.87	0.93
RC	5	5	5	6	6	6	7	7	7	7	7	7

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 %



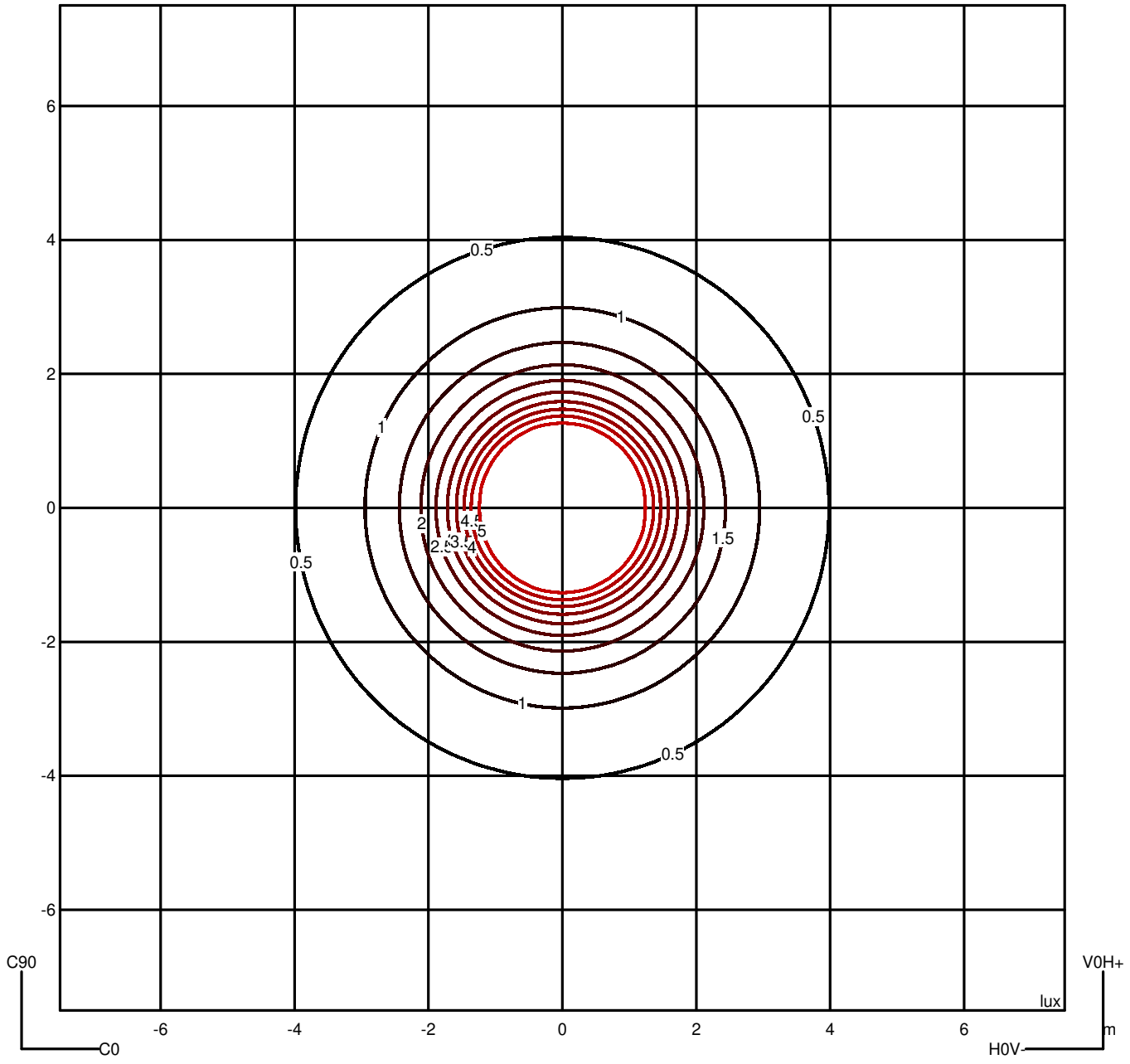
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	12.85	12.85	1.29 %	1.29 %
10°	39.99	52.84	4.00 %	5.28 %
15°	53.68	106.52	5.37 %	10.65 %
20°	47.26	153.78	4.73 %	15.38 %
25°	38.57	192.35	3.86 %	19.23 %
30°	41.40	233.75	4.14 %	23.37 %
35°	40.85	274.60	4.08 %	27.46 %
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
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Ensayo
Código CL092A24D019GP
Nombre KANDO_P111R_2400K_WHITE_RIBBON_37802318189

Flujo Luminaria	261 lm	Potencia Luminaria	5.1 W	Eficacia	51.176 lm/W	Eficiencia	100.00%
Flujo Fuente	261 lm	Valor Máximo	151.37 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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Datos Espectrales

Std.: No import standard

CIE1931	x =0.488157	y =0.415772	Índice repr. Cromática (CRI)
CIE1960	u =0.278432	v =0.355718	Comp.Reproducción Cromática
CIE1976	u'=0.278432	v'=0.533577	
D(u,v)	0.00032		

CCT = [2385 K]*

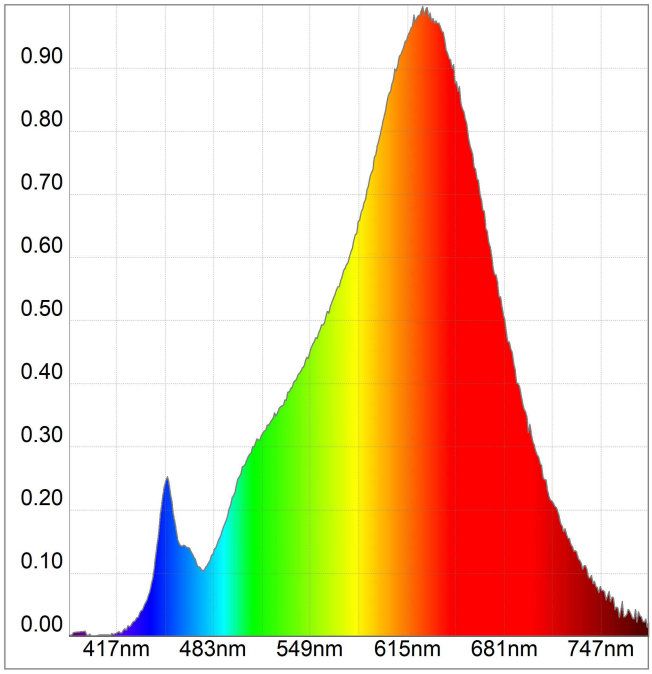
CRI8(Ra) [93.8]* CRI15(Rav) [91.8]*

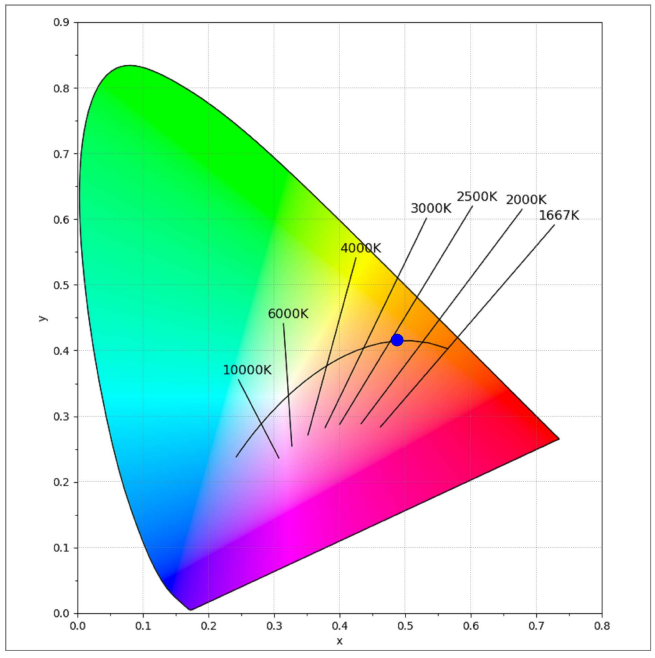
R 1: 94.2	R 2: 97.9	R 3: 99.2	R 4: 94.9	R 5: 94.7
R 6: 97.8	R 7: 90.8	R 8: 80.5	R 9: 59.6	R10: 94.6
R11: 97.8	R12: 90.8	R13: 95.4	R14: 99.1	R15: 88.9

Distribución Espectral

l(nm)	Potencia Radiante	l(nm)	Potencia Radiante	l(nm)	Potencia Radiante
385.0	0.000800	391.0	0.006375	397.0	0.001300
403.0	0.000475	409.0	0.001829	415.0	0.002700
421.0	0.005600	427.0	0.016400	433.0	0.036300
439.0	0.064700	445.0	0.146200	451.0	0.247400
457.0	0.181800	463.0	0.144000	469.0	0.130000
475.0	0.105600	481.0	0.119800	487.0	0.153100
493.0	0.190900	499.0	0.240200	505.0	0.272200
511.0	0.299700	517.0	0.321700	523.0	0.341700
529.0	0.363000	535.0	0.386400	541.0	0.414300
547.0	0.441700	553.0	0.472700	559.0	0.496100
565.0	0.534500	571.0	0.568900	577.0	0.608600
583.0	0.658600	589.0	0.713400	595.0	0.776900
601.0	0.837500	607.0	0.898100	613.0	0.932700
619.0	0.966300	625.0	0.991100	631.0	0.986900
637.0	0.970700	643.0	0.922400	649.0	0.878100
655.0	0.819000	661.0	0.742500	667.0	0.674200
673.0	0.602300	679.0	0.537200	685.0	0.465500
691.0	0.399900	697.0	0.347700	703.0	0.292800
709.0	0.247300	715.0	0.210800	721.0	0.174500
727.0	0.145000	733.0	0.119900	739.0	0.092700
745.0	0.076700	751.0	0.057200	757.0	0.042000
763.0	0.030000	769.0	0.028300	775.0	0.030300

Gráfico del Espectro

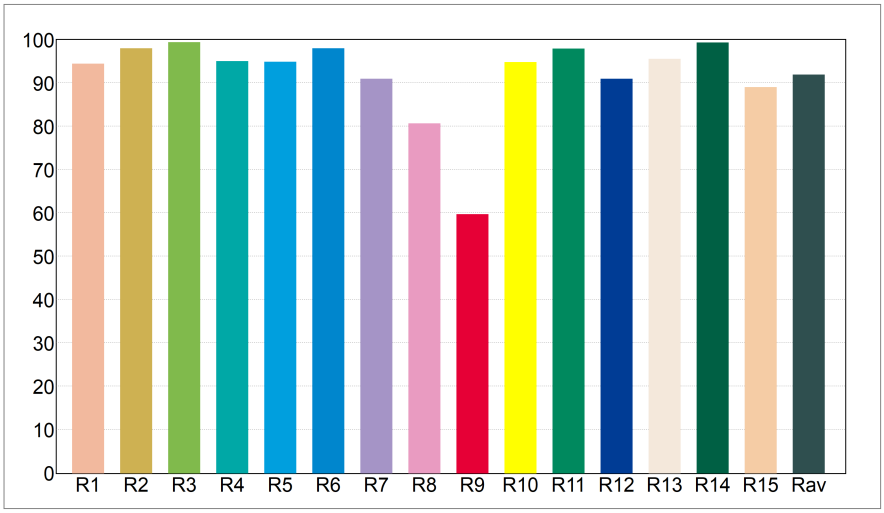


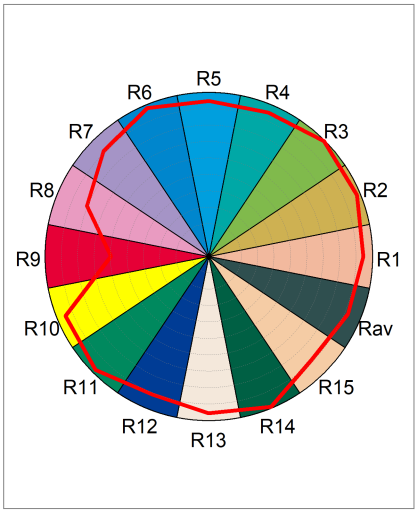


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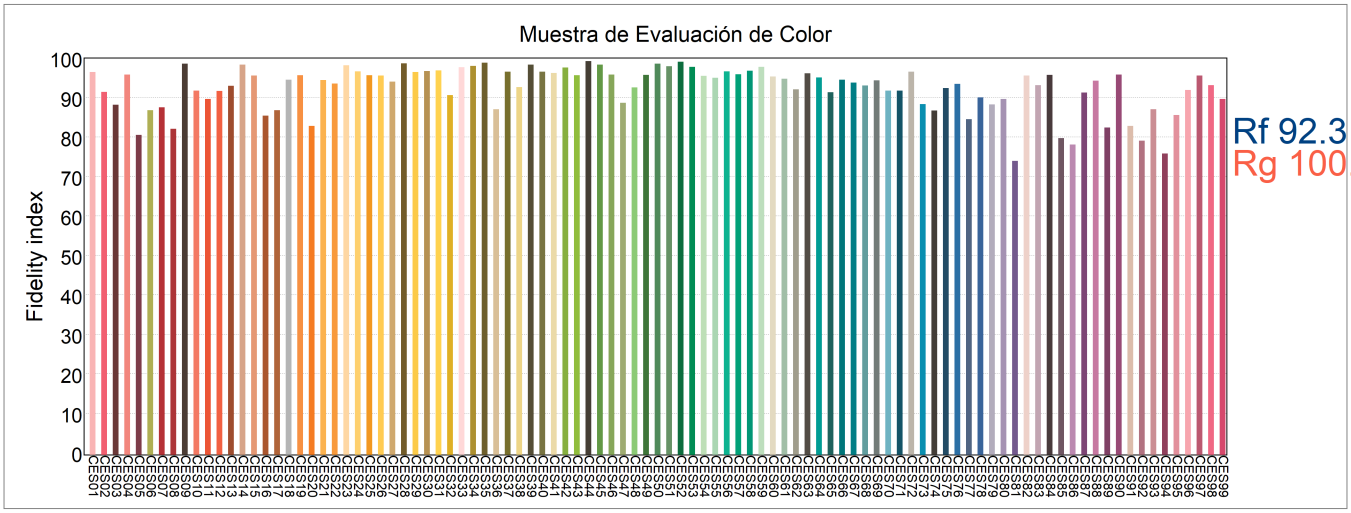
Gráficos del IRC





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Coordenadas de Cromaticidad (a' b') 99 muestras

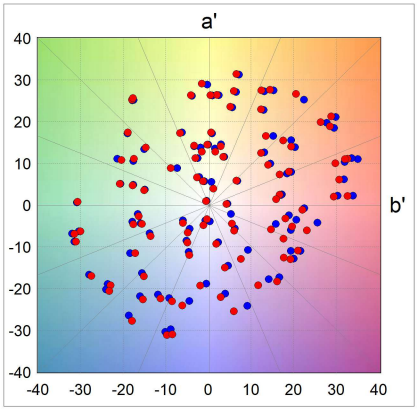


Gráfico Vectorial de Color

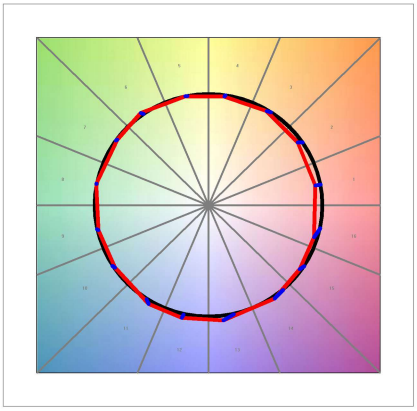


Gráfico de Distorsión de Color

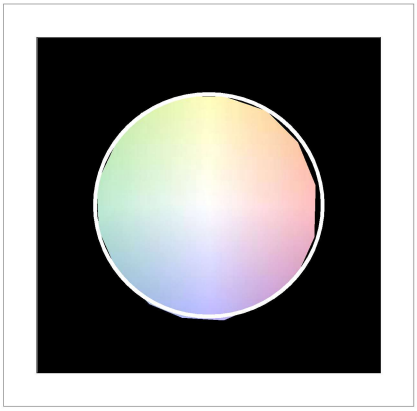


Diagrama Rf vs Rg

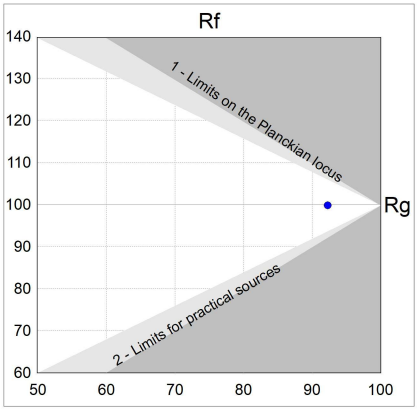
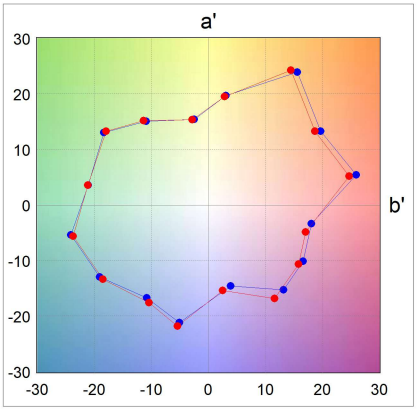


Diagrama Gamut



Cambios por Bin

