Luminaria

Código	37802324300
Nombre	KANDO_P111R_OUTDOOR_2700K_SAND_37802324300
Familia	OxyTech

Ensayo

Código	CL092A24D006VP
Nombre	KANDO_P111R_OUTDOOR_2700K_SAND_37802324300

Datos Fuente de luz

Código	37802324300	Temp. de Color Correlacionada (TCP)	2776K	Cant.	1
Nombre	Cree J Series 2835 3-V	Índice repr. Cromática (CRI)	91		
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

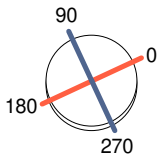
Luminaria Redonda	Diam.	490 mm	Altura	1110 mm	
Área Luminosa Redonda	Diam.	410 mm	Altura	810 mm	
Área Luminosa Horizontal	0.132025 m2		Área Emisión sobre Pl. 180°	0.332100 m2	
Área Emisión sobre Pl. 0°	0.332100 m2		Área Emisión sobre Pl. 270°	0.332100 m2	
Área Emisión sobre Pl. 90°	0.332100 m2		Área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

Análisis Fotométrico

Flujo Luminaria	131.0 lm	Flujo Fuente	131.0 lm
Eficacia	23.818 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

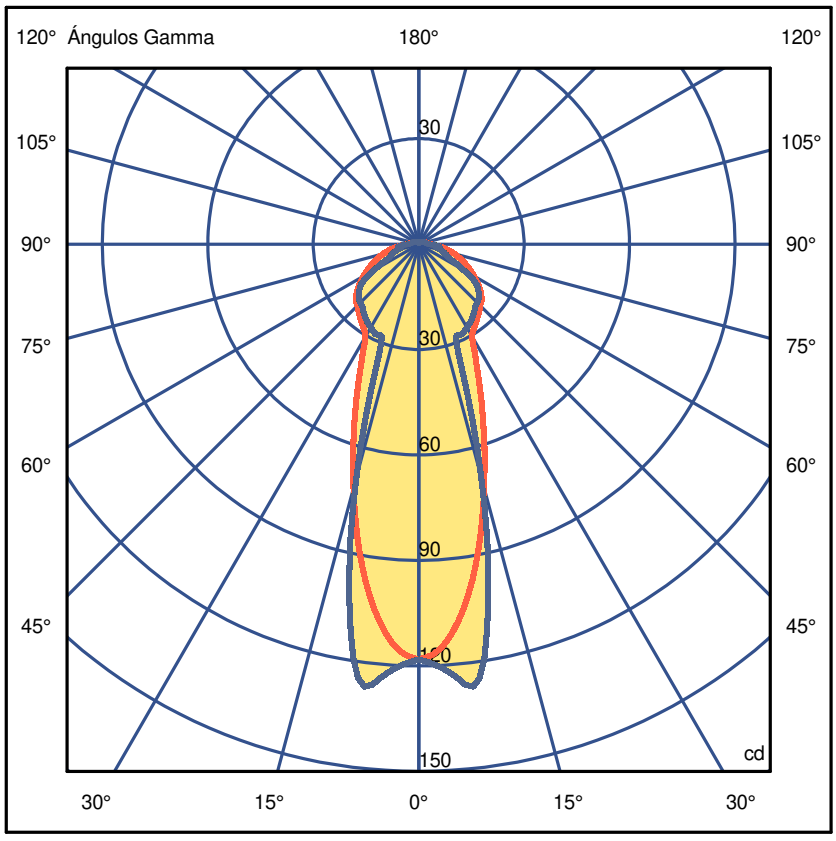


Diam=490mm





ULOR 7.33 %
DLOR 92.67 %
RN 7.33 %



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Flujo Luminaria	131 lm	Potencia Luminaria	5.5 W	Eficacia	23.818 lm/W	Eficiencia	100.00%
Flujo Fuente	131 lm	Valor Máximo	126.21 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

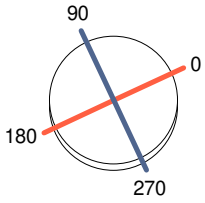
Tabla de Intensidad Luminosa cd **Tabla 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	118.15019	118.15019	118.15019	118.15019	118.15019	118.15019	118.15019
G 2.5	116.13285	116.42293	117.15434	118.11675	119.06098	119.75510	120.02719
G 5.0	110.66607	111.55361	113.70609	116.58377	119.87246	122.65642	123.80743
G 7.5	102.62772	103.94195	106.88183	112.17801	119.17179	124.25628	126.20956
G 10.0	92.89567	93.93686	96.23119	102.48633	107.59928	110.44975	111.70697
G 12.5	82.34778	82.07288	81.69300	84.48708	87.11931	89.69731	90.90779
G 15.0	71.86192	69.36894	64.34974	64.47540	67.00879	68.33885	68.65977
G 17.5	62.18133	58.48133	48.62049	47.88237	50.14066	49.36298	48.09882
G 20.0	53.51062	49.04366	39.87469	36.49586	38.65892	35.59094	32.73207
G 22.5	45.91981	41.02283	33.94910	31.47753	33.57115	30.42327	27.98448
G 25.0	39.47886	34.95956	30.31390	29.36995	32.65705	29.69397	28.36567
G 27.5	34.25779	30.95681	28.27304	29.25632	31.91581	29.02315	27.97705
G 30.0	30.32657	28.72064	27.09962	29.16995	30.45250	28.42340	27.31677
G 32.5	29.02297	27.47788	26.26017	28.03774	28.95081	27.45133	26.78997
G 35.0	27.95042	26.71484	25.32005	26.44608	27.44603	26.20604	26.15701
G 37.5	27.04573	26.61169	24.22094	25.08199	26.29587	25.00749	25.42898
G 40.0	26.24568	25.34905	22.74166	23.99800	25.14326	24.07551	24.62205
G 42.5	25.48708	24.09702	21.51790	22.90109	24.23085	23.24325	23.88016
G 45.0	24.70673	22.78377	20.45230	21.65482	23.05493	22.24643	23.50423
G 47.5	24.15889	21.50964	19.49159	20.25609	21.64568	21.10653	23.08584
G 50.0	23.29204	20.37056	18.60695	18.81941	20.17421	19.93278	22.25921
G 52.5	22.18051	19.38131	17.94747	17.50198	18.56573	18.74239	21.26885
G 55.0	20.89867	18.49222	17.37090	16.43753	17.05340	17.39277	20.06862
G 57.5	19.52088	17.63787	16.77037	15.76807	15.82366	15.63515	17.76748
G 60.0	18.12149	16.74306	16.12282	15.09297	14.39949	13.32905	14.87286
G 62.5	16.76072	15.74820	15.47827	14.02759	12.81018	10.98602	11.95082
G 65.0	15.44230	14.64652	14.70428	12.81067	11.22241	9.02252	9.58809
G 67.5	14.15582	13.46487	13.74153	11.61489	10.28589	8.12390	8.67325
G 70.0	12.89088	12.22769	12.61508	10.44420	10.12940	7.95804	7.96974
G 72.5	11.63706	10.96137	11.36282	9.45792	10.05957	7.31276	7.18789
G 75.0	10.38397	9.69250	10.04075	8.61187	9.45040	6.40033	6.38833
G 77.5	9.12653	8.44987	8.72389	7.87790	8.35873	5.72240	5.63402
G 80.0	7.88103	7.25400	7.47776	7.08941	7.06099	5.02111	4.90253
G 82.5	6.66911	6.12145	6.31449	6.15641	5.77601	4.32127	5.94981
G 85.0	5.51239	5.06740	5.25125	5.12790	4.69800	3.72996	5.00545
G 87.5	4.43251	4.10607	4.29341	4.09647	3.83432	3.26985	4.02994
G 90.0	3.45108	3.25133	3.44460	3.16495	3.13889	2.90783	3.02886
G 92.5	3.00945	2.95479	3.11992	2.83679	2.74744	2.55197	2.65725
G 95.0	2.66985	2.69608	2.82741	2.57171	2.47386	2.23951	2.30075
G 97.5	2.41421	2.47150	2.56921	2.36116	2.28417	2.03463	2.10336
G100.0	2.22449	2.27732	2.34742	2.19608	2.13246	1.89447	2.02737
G102.5	2.08261	2.10977	2.16535	2.08365	1.99752	1.82520	1.95583
G105.0	1.97051	1.97385	2.05484	1.98730	1.89013	1.76858	1.86749
G107.5	1.87274	1.88498	1.97701	1.90177	1.79944	1.70666	1.78762
G110.0	1.78420	1.79970	1.91249	1.82640	1.74212	1.66253	1.72459
G112.5	1.70243	1.71764	1.84963	1.75902	1.70838	1.62389	1.67417
G115.0	1.62493	1.63858	1.77659	1.69102	1.64591	1.56826	1.60531
G117.5	1.54922	1.56235	1.68703	1.61421	1.56348	1.49266	1.50979
G120.0	1.47282	1.48652	1.58572	1.52914	1.49598	1.41388	1.38850
G122.5	1.39396	1.40970	1.48492	1.44196	1.40333	1.30208	1.27519
G125.0	1.31368	1.33143	1.39433	1.35483	1.30197	1.20820	1.18520
G127.5	1.23372	1.25356	1.31566	1.27255	1.22383	1.14620	1.12644
G130.0	1.15584	1.17841	1.24508	1.20093	1.14933	1.06161	1.07560
G132.5	1.08178	1.10770	1.17558	1.13899	1.08531	1.01611	1.03327
G135.0	1.01330	1.04246	1.10745	1.08302	1.04311	0.98466	1.00059
G137.5	0.95179	0.98276	1.04349	1.02916	0.99510	0.95485	0.95846
G140.0	0.89725	0.92792	0.98651	0.98014	0.95264	0.92187	0.92690
G142.5	0.84934	0.87862	0.93790	0.93547	0.91238	0.88426	0.88586
G145.0	0.80771	0.83571	0.89605	0.89123	0.86853	0.84570	0.84154
G147.5	0.77202	0.79907	0.85545	0.84824	0.82087	0.80321	0.79931
G150.0	0.74192	0.76731	0.81281	0.80791	0.77669	0.76059	0.75479
G152.5	0.71663	0.73748	0.77100	0.77004	0.73953	0.71752	0.71150
G155.0	0.69361	0.70873	0.73373	0.73227	0.70398	0.67937	0.67149
G157.5	0.66989	0.67984	0.69986	0.69006	0.66715	0.64289	0.63379
G160.0	0.64251	0.64881	0.66572	0.64784	0.62876	0.60548	0.59530
G162.5	0.60849	0.61263	0.62617	0.60648	0.58330	0.56749	0.55926
G165.0	0.56485	0.56691	0.57559	0.56040	0.53883	0.52310	0.51698
G167.5	0.51028	0.51079	0.51526	0.50768	0.49140	0.47783	0.47213
G170.0	0.45007	0.44985	0.45162	0.44883	0.43945	0.42994	0.42565
G172.5	0.39116	0.39077	0.39082	0.38983	0.38579	0.38087	0.37846
G175.0	0.34049	0.34029	0.33955	0.33874	0.33742	0.33591	0.33493
G177.5	0.30500	0.30501	0.30469	0.30420	0.30368	0.30320	0.30286
G180.0	0.29162	0.29162	0.29162	0.29162	0.29162	0.29162	0.29162

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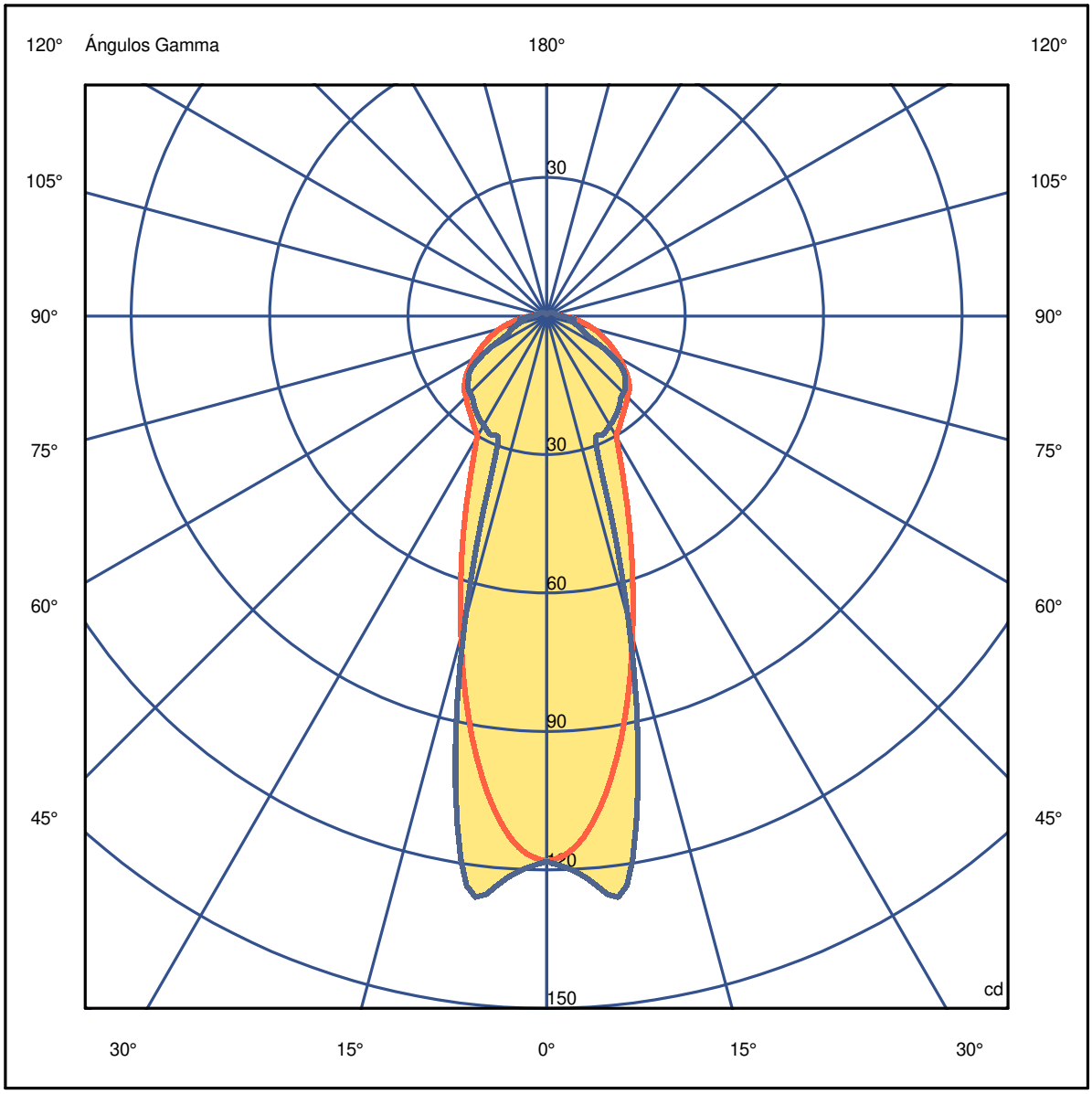
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Flujo Fuente	131 lm	Valor Máximo	126.21 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

Diam=490mm



Semiplanos C

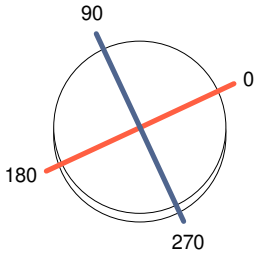




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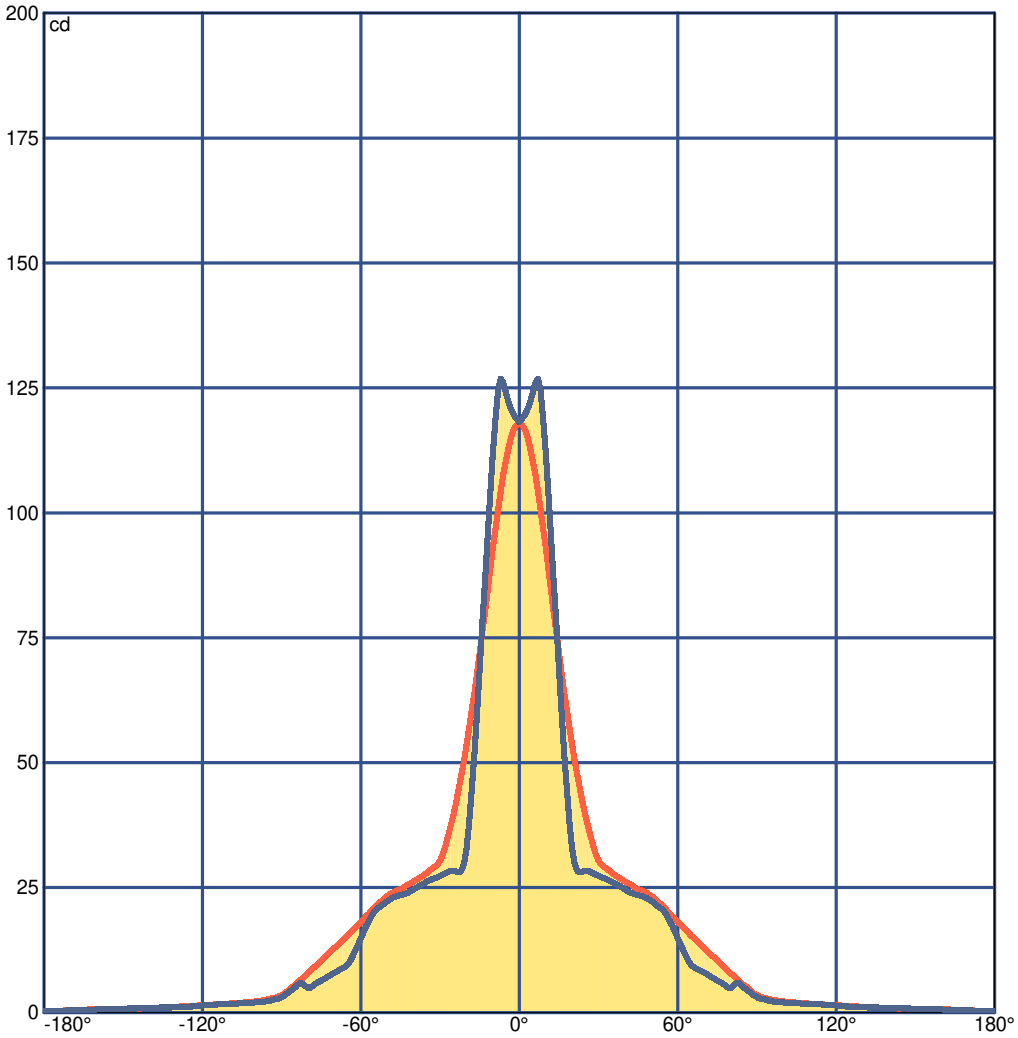
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Semiplanos C





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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	1.6	2.8	2.0	3.1	3.5	0.9	2.1	1.3	2.4	2.8
x=2H y=3H	3.0	4.1	3.4	4.5	4.9	1.6	2.7	2.0	3.0	3.4
x=2H y=4H	3.6	4.6	4.0	5.0	5.4	1.9	2.9	2.3	3.3	3.8
x=2H y=6H	4.0	4.9	4.5	5.4	5.8	2.2	3.1	2.6	3.5	4.0
x=2H y=8H	4.2	5.1	4.7	5.5	6.0	2.3	3.2	2.8	3.7	4.2
x=2H y=12H	4.3	5.2	4.8	5.6	6.1	2.5	3.4	3.0	3.8	4.3
x=4H y=2H	2.0	3.0	2.5	3.4	3.9	1.4	2.4	1.9	2.8	3.3
x=4H y=3H	3.7	4.6	4.2	5.0	5.5	2.4	3.3	2.9	3.7	4.2
x=4H y=4H	4.4	5.2	4.9	5.7	6.2	2.9	3.7	3.4	4.2	4.7
x=4H y=6H	5.0	5.7	5.5	6.2	6.7	3.3	4.0	3.9	4.5	5.1
x=4H y=8H	5.2	5.8	5.7	6.3	6.9	3.5	4.1	4.1	4.7	5.2
x=4H y=12H	5.4	5.9	5.9	6.5	7.1	3.7	4.3	4.3	4.8	5.4
x=8H y=4H	4.6	5.2	5.2	5.8	6.3	3.3	4.0	3.9	4.5	5.1
x=8H y=6H	5.3	5.8	5.9	6.4	7.0	3.9	4.4	4.5	5.0	5.6
x=8H y=8H	5.6	6.1	6.2	6.7	7.3	4.2	4.6	4.8	5.2	5.9
x=8H y=12H	5.9	6.3	6.5	6.9	7.5	4.4	4.8	5.0	5.4	6.1
x=12H y=4H	4.6	5.2	5.2	5.7	6.3	3.4	3.9	3.9	4.5	5.1
x=12H y=6H	5.4	5.8	6.0	6.4	7.0	4.0	4.5	4.6	5.1	5.7
x=12H y=8H	5.7	6.1	6.3	6.7	7.4	4.4	4.8	5.0	5.3	6.0

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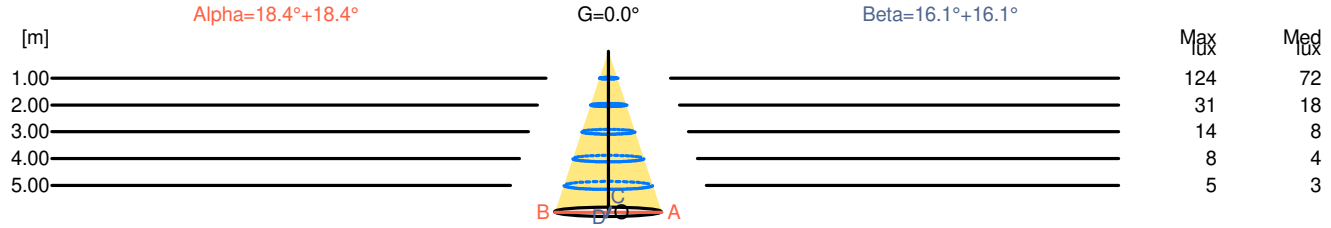
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Apertura a 50.00 % de Max Intensidad

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	0.33	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	118.15	110.67	71.86	39.48	27.95	24.71	20.90	15.44	10.38	5.51
OB	118.15	110.67	71.86	39.48	27.95	24.71	20.90	15.44	10.38	5.51
OC	118.15	123.81	68.66	28.37	26.16	23.50	20.07	9.59	6.39	5.01
OD	118.15	123.81	68.66	28.37	26.16	23.50	20.07	9.59	6.39	5.01



H[m]	D[m]	Max lux	Med lux	Alpha=18.4°+18.4° G=0.0
1.00	0.66	124	72	
2.00	1.33	31	18	
3.00	1.99	14	8	
4.00	2.66	8	4	
5.00	3.32	5	3	

H[m]	D[m]	Max lux	Med lux	Beta=16.1°+16.1° G=0.0
1.00	0.58	124	72	
2.00	1.16	31	18	
3.00	1.73	14	8	
4.00	2.31	8	4	
5.00	2.89	5	3	

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Flujo Total=131.00 Flujo Luminaria=131.00

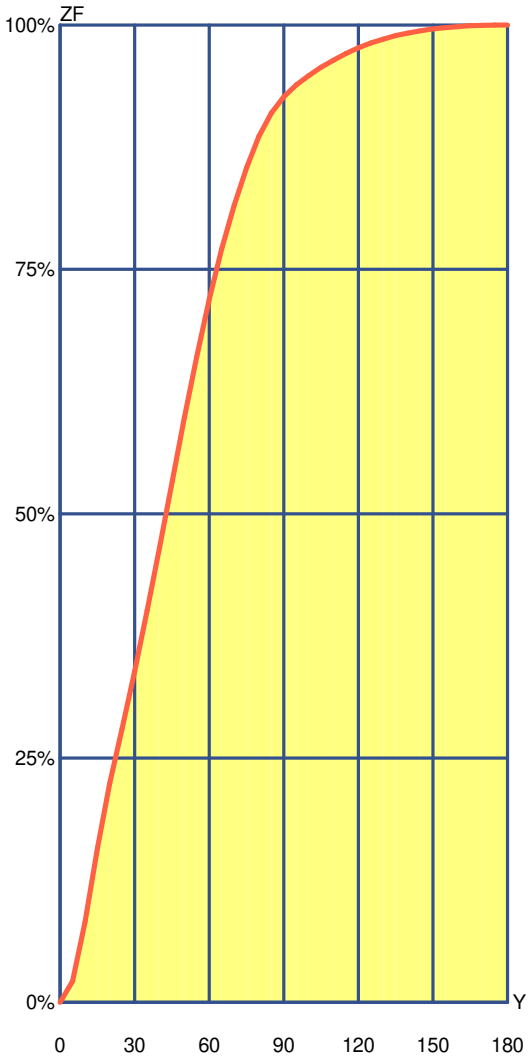
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.35	0.43	0.49	0.56	0.61	0.68	0.74	0.78	0.82	0.85	0.92	0.96
RC	4	4	4	5	5	5	5	5	5	5	5	5

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 %



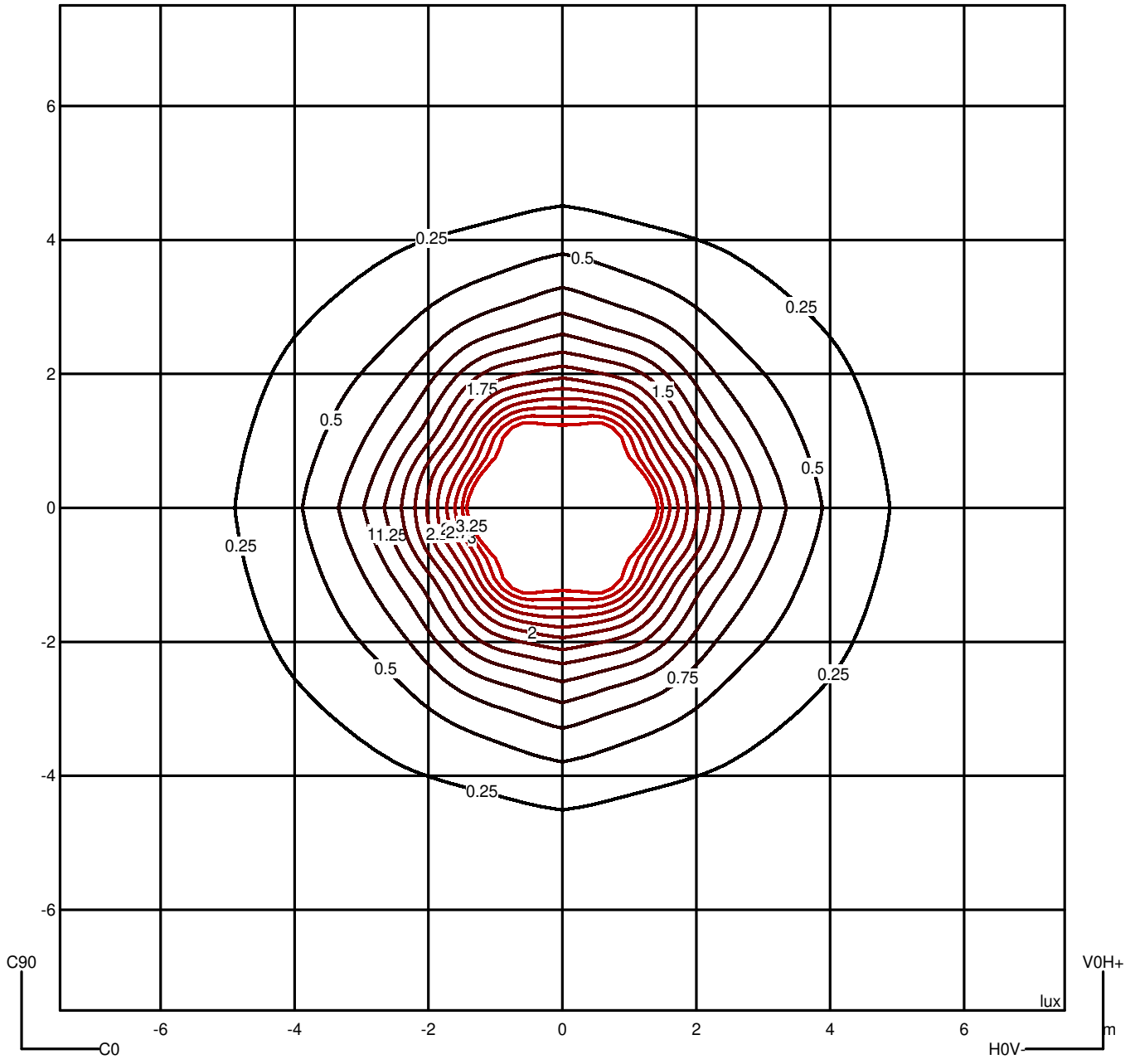
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	21.48	21.48	2.15 %	2.15 %
10°	60.57	82.05	6.06 %	8.20 %
15°	76.21	158.26	7.62 %	15.83 %
20°	65.78	224.03	6.58 %	22.40 %
25°	56.43	280.46	5.64 %	28.05 %
30°	58.28	338.74	5.83 %	33.87 %
35°	62.16	400.90	6.22 %	40.09 %
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
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Nombre KANDO_P111R_OUTDOOR_2700K_SAND_37802324300
Ensayo
Código CL092A24D006VP
Nombre KANDO_P111R_OUTDOOR_2700K_SAND_37802324300

Flujo Luminaria	131 lm	Potencia Luminaria	5.5 W	Eficacia	23.818 lm/W	Eficiencia	100.00%
Flujo Fuente	131 lm	Valor Máximo	126.21 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	131 lm	Valor Máximo	126.21 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

Datos Espectrales

Std.: No import standard

CIE1931	x =0.453304	y =0.408310	Índice repr. Cromática (CRI)
CIE1960	u =0.259286	v =0.350325	Comp.Reproducción Cromática
CIE1976	u'=0.259286	v'=0.525487	
D(u,v)	0.00026		

CCT = [2776 K]*

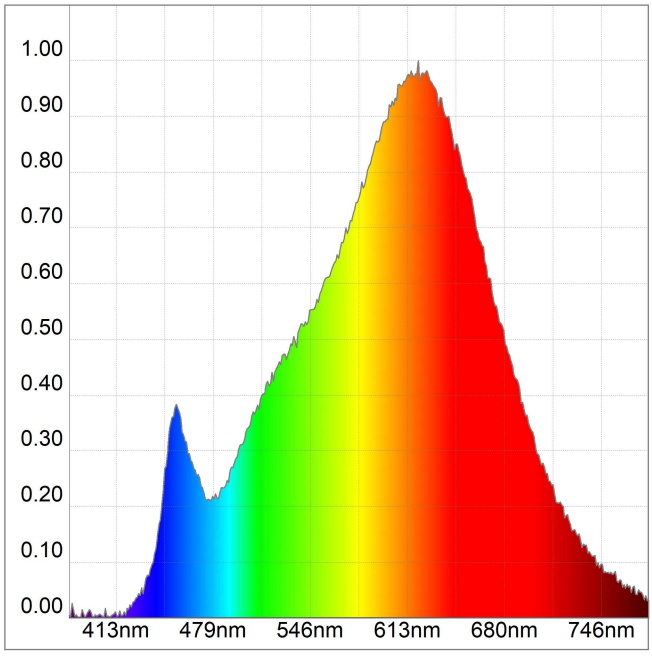
CRI8(Ra) [92.0]* CRI15(Rav) [89.3]*

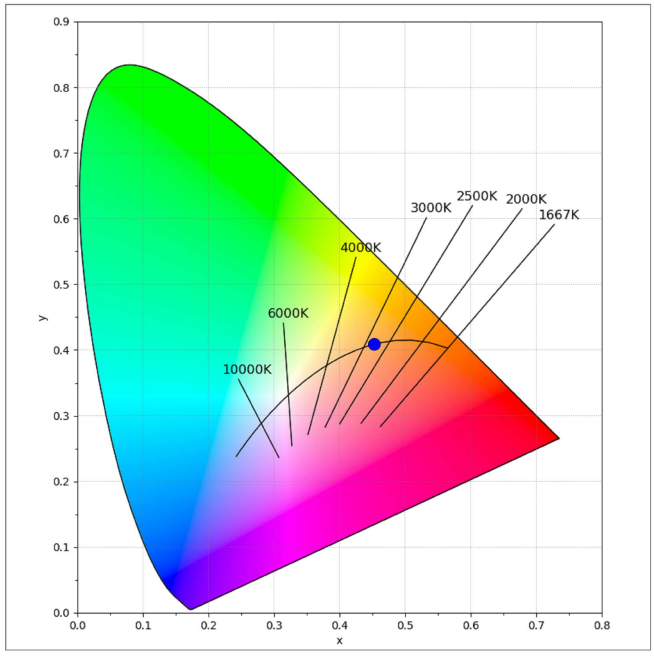
R 1: 92.1	R 2: 96.9	R 3: 98.3	R 4: 91.4	R 5: 92.1
R 6: 96.5	R 7: 90.1	R 8: 78.6	R 9: 54.1	R10: 92.2
R11: 92.4	R12: 83.6	R13: 93.5	R14: 99.7	R15: 87.5

Distribución Espectral

l(nm)	Potencia Radiante	l(nm)	Potencia Radiante	l(nm)	Potencia Radiante
380.0	0.004001	386.0	0.000925	392.0	0.005476
398.0	0.005197	404.0	0.000567	410.0	0.005201
416.0	0.003323	422.0	0.023251	428.0	0.043428
434.0	0.076270	440.0	0.125064	446.0	0.268362
452.0	0.360778	458.0	0.333099	464.0	0.282114
470.0	0.251205	476.0	0.212924	482.0	0.215547
488.0	0.236536	494.0	0.278196	500.0	0.312159
506.0	0.361688	512.0	0.392649	518.0	0.416094
524.0	0.451718	530.0	0.463612	536.0	0.496542
542.0	0.523259	548.0	0.553419	554.0	0.587196
560.0	0.614220	566.0	0.645442	572.0	0.690138
578.0	0.745305	584.0	0.777663	590.0	0.836884
596.0	0.883233	602.0	0.917527	608.0	0.957882
614.0	0.976145	620.0	0.977614	626.0	0.979238
632.0	0.952786	638.0	0.915178	644.0	0.872713
650.0	0.828673	656.0	0.766604	662.0	0.691860
668.0	0.631889	674.0	0.559757	680.0	0.515740
686.0	0.452544	692.0	0.384870	698.0	0.341962
704.0	0.292752	710.0	0.258974	716.0	0.207726
722.0	0.178819	728.0	0.157004	734.0	0.125711
740.0	0.114078	746.0	0.089233	752.0	0.081486
758.0	0.066811	764.0	0.052664	770.0	0.056635
776.0	0.040674				

Gráfico del Espectro

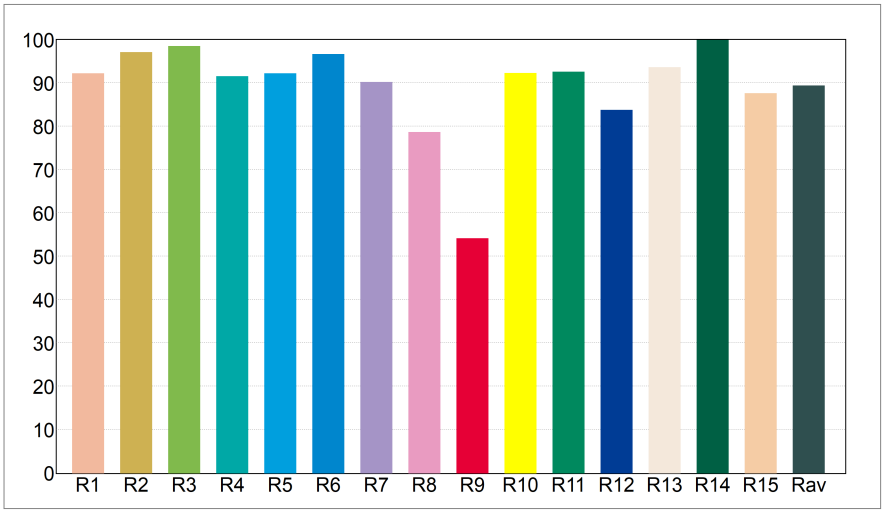


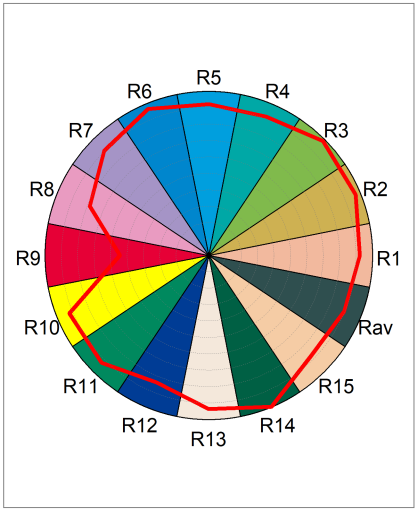


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Flujo Fuente	131 lm	Valor Máximo	126.21 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

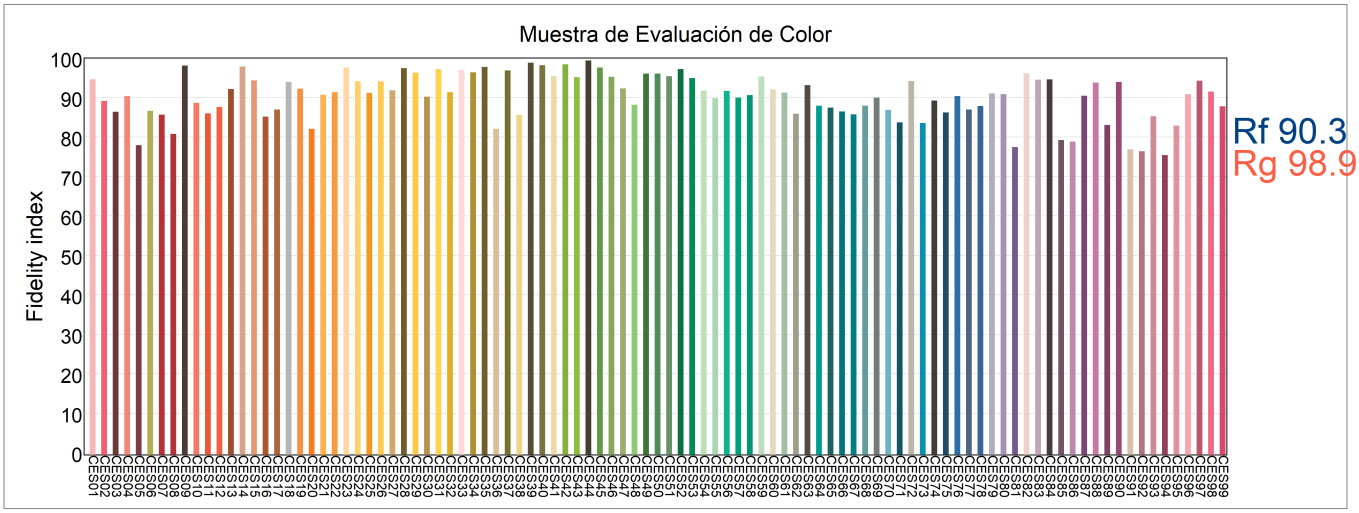
Gráficos del IRC





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Flujo Fuente	131 lm	Valor Máximo	126.21 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico



Coordenadas de Cromaticidad (a' b') 99 muestras

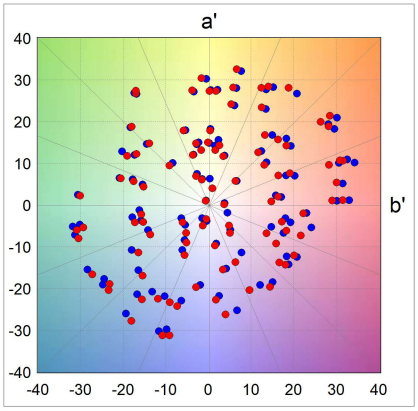


Gráfico Vectorial de Color

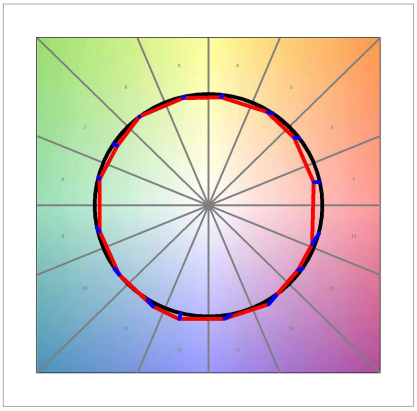


Gráfico de Distorsión de Color

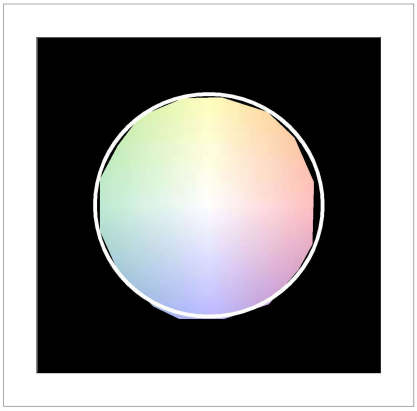


Diagrama Rf vs Rg

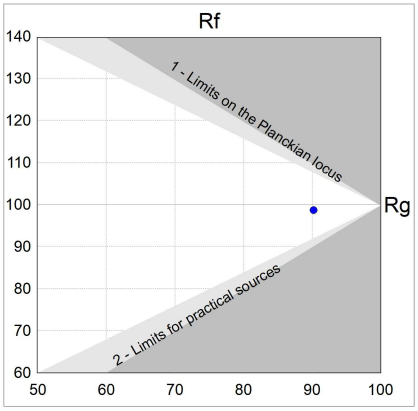
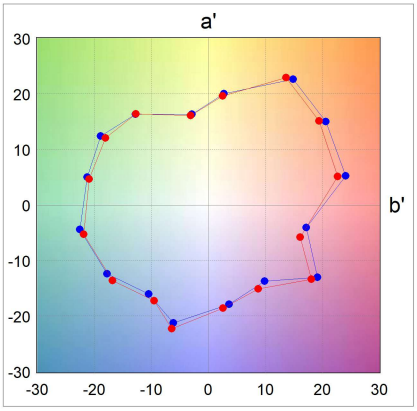


Diagrama Gamut



Cambios por Bin

