Luminaria

Código	37802324300
Nombre	KANDO_P111R_OUTDOOR_2400K_SAND_37802324300
Familia	OxyTech

Ensayo

Código	CL092A24D006VP
Nombre	KANDO_P111R_OUTDOOR_2400K_SAND_37802324300

Datos Fuente de luz

Código	37802324300	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	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	5.10 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

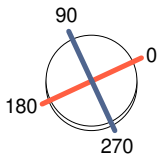
Luminaria Redonda	Diam.	490 mm	Altura	1110 mm	
Área Luminosa Redonda	Diam.	410 mm	Altura	810 mm	
Área Luminosa Horizontal	0.132025 m2		Área Emisión sobre Pl. 180°	0.332100 m2	
Área Emisión sobre Pl. 0°	0.332100 m2		Área Emisión sobre Pl. 270°	0.332100 m2	
Área Emisión sobre Pl. 90°	0.332100 m2		Área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

Análisis Fotométrico

Flujo Luminaria	118.0 lm	Flujo Fuente	118.0 lm
Eficacia	23.137 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

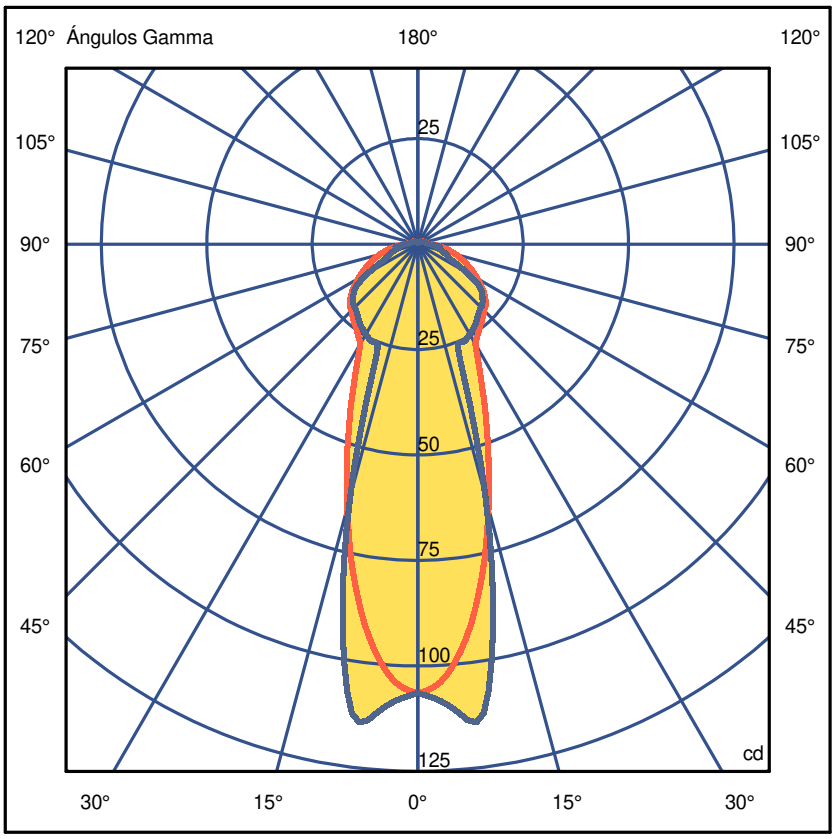


Diam=490mm





ULOR 7.33 %
DLOR 92.67 %
RN 7.33 %



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Flujo Luminaria	118 lm	Potencia Luminaria	5.1 W	Eficacia	23.137 lm/W	Eficiencia	100.00%
Flujo Fuente	118 lm	Valor Máximo	113.68 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

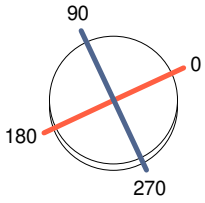
Tabla de Intensidad Luminosa cd **Tabla 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	106.42536	106.42536	106.42536	106.42536	106.42536	106.42536	106.42536
G 2.5	104.60822	104.86951	105.52834	106.39524	107.24577	107.87101	108.11609
G 5.0	99.68394	100.48341	102.42228	105.01439	107.97672	110.48441	111.52120
G 7.5	92.44329	93.62710	96.27524	101.04584	107.34558	111.92550	113.68495
G 10.0	83.67701	84.61489	86.68153	92.31593	96.92149	99.48909	100.62155
G 12.5	74.17586	73.92824	73.58606	76.10287	78.47388	80.79605	81.88640
G 15.0	64.73059	62.48500	57.96389	58.07708	60.35906	61.55714	61.84620
G 17.5	56.01066	52.67784	43.79556	43.13069	45.16487	44.46437	43.32565
G 20.0	48.20041	44.17674	35.91766	32.87413	34.82253	32.05901	29.48385
G 22.5	41.36288	36.95186	30.58011	28.35381	30.23966	27.40416	25.20740
G 25.0	35.56111	31.49029	27.30565	26.45538	29.41627	26.74724	25.55076
G 27.5	30.85816	27.88476	25.46731	26.35302	28.74860	26.14299	25.20070
G 30.0	27.31706	25.87050	24.41035	26.27522	27.43050	25.60276	24.60595
G 32.5	26.14283	24.75107	23.65420	25.25537	26.07783	24.72715	24.13142
G 35.0	25.17672	24.06375	22.80737	23.82166	24.72238	23.60544	23.56128
G 37.5	24.36180	23.97083	21.81733	22.59294	23.68635	22.52583	22.90549
G 40.0	23.64115	22.83350	20.48485	21.61652	22.64813	21.68634	22.17864
G 42.5	22.95783	21.70572	19.38254	20.62846	21.82626	20.93666	21.51037
G 45.0	22.25492	20.52279	18.42268	19.50587	20.76703	20.03877	21.17175
G 47.5	21.76145	19.37509	17.55731	18.24594	19.49764	19.01199	20.79488
G 50.0	20.98061	18.34906	16.76046	16.95184	18.17219	17.95472	20.05028
G 52.5	19.97939	17.45797	16.16642	15.76514	16.72333	16.88245	19.15820
G 55.0	18.82476	16.65711	15.64707	14.80633	15.36108	15.66677	18.07708
G 57.5	17.58370	15.88755	15.10614	14.20330	14.25337	14.08357	16.00429
G 60.0	16.32317	15.08154	14.52285	13.59519	12.97053	12.00632	13.39692
G 62.5	15.09744	14.18540	13.94226	12.63554	11.53894	9.89580	10.76486
G 65.0	13.90986	13.19305	13.24508	11.53938	10.10873	8.12715	8.63660
G 67.5	12.75105	12.12866	12.37787	10.46227	9.26515	7.31771	7.81254
G 70.0	11.61163	11.01425	11.36320	9.40775	9.12420	7.16831	7.17885
G 72.5	10.48224	9.87360	10.23521	8.51935	9.06129	6.58706	6.47459
G 75.0	9.35350	8.73065	9.04434	7.75725	8.51257	5.76519	5.75438
G 77.5	8.22084	7.61134	7.85816	7.09612	7.52924	5.15453	5.07492
G 80.0	7.09894	6.53414	6.73569	6.38588	6.36028	4.52283	4.41602
G 82.5	6.00729	5.51398	5.68786	5.54547	5.20281	3.89245	5.35937
G 85.0	4.96536	4.56453	4.73014	4.61903	4.23179	3.35981	4.50872
G 87.5	3.99264	3.69860	3.86734	3.68995	3.45382	2.94536	3.63002
G 90.0	3.10861	2.92868	3.10277	2.85087	2.82740	2.61927	2.72829
G 92.5	2.71080	2.66156	2.81031	2.55528	2.47479	2.29872	2.39355
G 95.0	2.40490	2.42853	2.54682	2.31651	2.22837	2.01727	2.07243
G 97.5	2.17464	2.22623	2.31425	2.12685	2.05750	1.83272	1.89463
G100.0	2.00374	2.05133	2.11447	1.97815	1.92084	1.70647	1.82618
G102.5	1.87594	1.90041	1.95047	1.87688	1.79929	1.64407	1.76174
G105.0	1.77497	1.77797	1.85093	1.79008	1.70256	1.59307	1.68216
G107.5	1.68689	1.69792	1.78082	1.71304	1.62087	1.53730	1.61022
G110.0	1.60715	1.62110	1.72270	1.64516	1.56924	1.49755	1.55345
G112.5	1.53348	1.54719	1.66608	1.58446	1.53884	1.46274	1.50803
G115.0	1.46367	1.47598	1.60029	1.52321	1.48257	1.41263	1.44600
G117.5	1.39548	1.40731	1.51961	1.45402	1.40832	1.34454	1.35996
G120.0	1.32667	1.33900	1.42836	1.37739	1.34753	1.27357	1.25071
G122.5	1.25563	1.26980	1.33756	1.29887	1.26407	1.17287	1.14864
G125.0	1.18332	1.19931	1.25596	1.22038	1.17277	1.08830	1.06758
G127.5	1.11129	1.12916	1.18510	1.14627	1.10238	1.03245	1.01466
G130.0	1.04114	1.06147	1.12152	1.08176	1.03528	0.95626	0.96886
G132.5	0.97443	0.99777	1.05892	1.02596	0.97760	0.91527	0.93073
G135.0	0.91274	0.93901	0.99755	0.97554	0.93960	0.88695	0.90129
G137.5	0.85733	0.88523	0.93994	0.92703	0.89635	0.86009	0.86335
G140.0	0.80821	0.83583	0.88861	0.88288	0.85810	0.83039	0.83492
G142.5	0.76505	0.79143	0.84482	0.84264	0.82184	0.79651	0.79795
G145.0	0.72756	0.75278	0.80713	0.80279	0.78234	0.76178	0.75803
G147.5	0.69541	0.71978	0.77056	0.76406	0.73941	0.72350	0.71999
G150.0	0.66829	0.69116	0.73215	0.72773	0.69962	0.68511	0.67989
G152.5	0.64551	0.66430	0.69449	0.69362	0.66614	0.64631	0.64089
G155.0	0.62478	0.63840	0.66091	0.65960	0.63412	0.61195	0.60485
G157.5	0.60342	0.61237	0.63041	0.62158	0.60095	0.57909	0.57089
G160.0	0.57875	0.58443	0.59966	0.58355	0.56636	0.54540	0.53622
G162.5	0.54810	0.55184	0.56403	0.54630	0.52541	0.51117	0.50376
G165.0	0.50880	0.51065	0.51847	0.50479	0.48536	0.47119	0.46568
G167.5	0.45964	0.46011	0.46413	0.45730	0.44263	0.43041	0.42528
G170.0	0.40541	0.40521	0.40680	0.40429	0.39584	0.38727	0.38341
G172.5	0.35234	0.35199	0.35204	0.35114	0.34751	0.34308	0.34090
G175.0	0.30670	0.30652	0.30585	0.30513	0.30393	0.30257	0.30169
G177.5	0.27473	0.27474	0.27445	0.27402	0.27354	0.27311	0.27280
G180.0	0.26268	0.26268	0.26268	0.26268	0.26268	0.26268	0.26268

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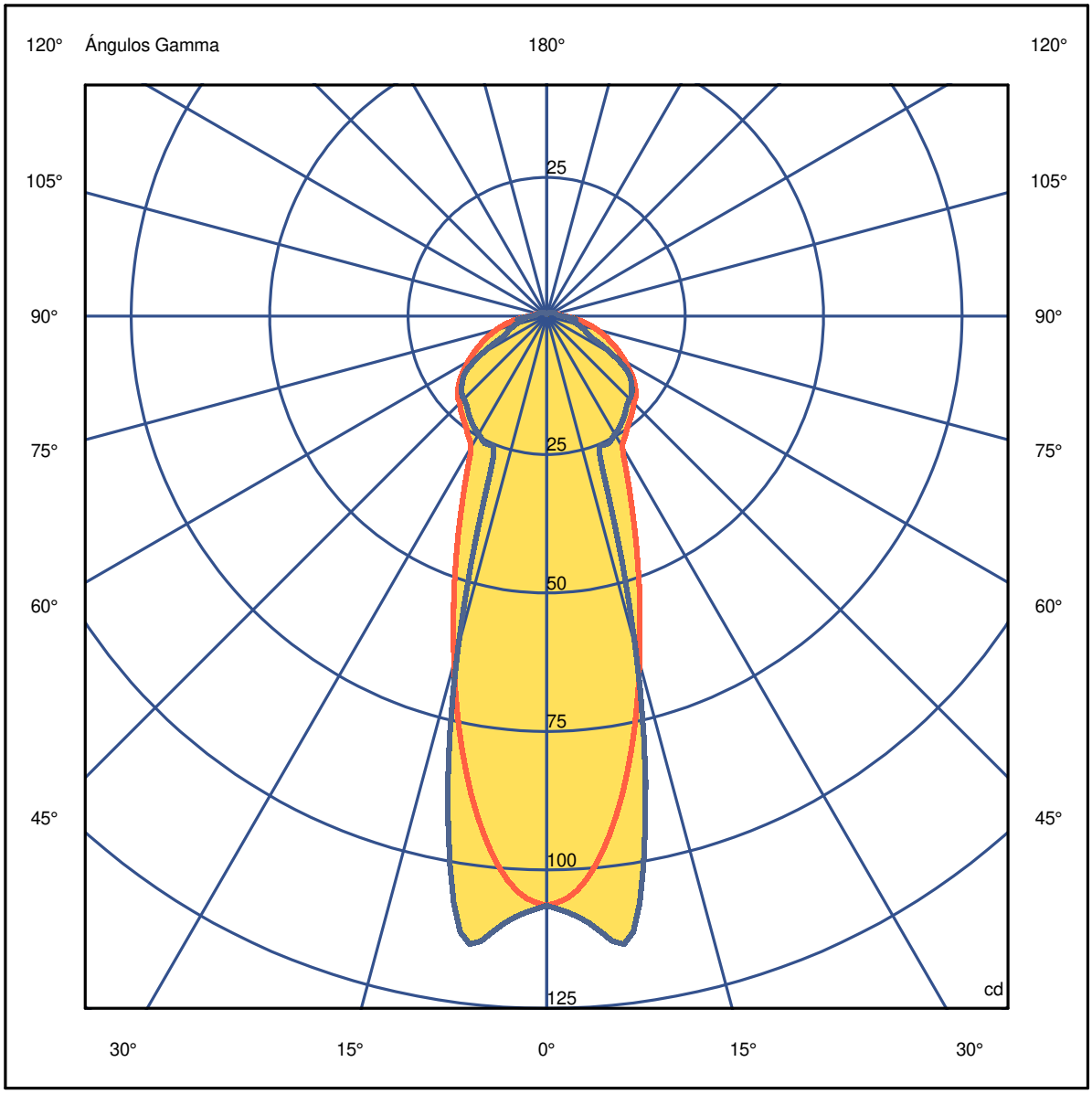
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Flujo Fuente	118 lm	Valor Máximo	113.68 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

Diam=490mm



Semiplanos C

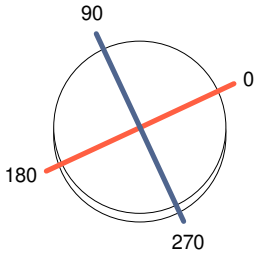




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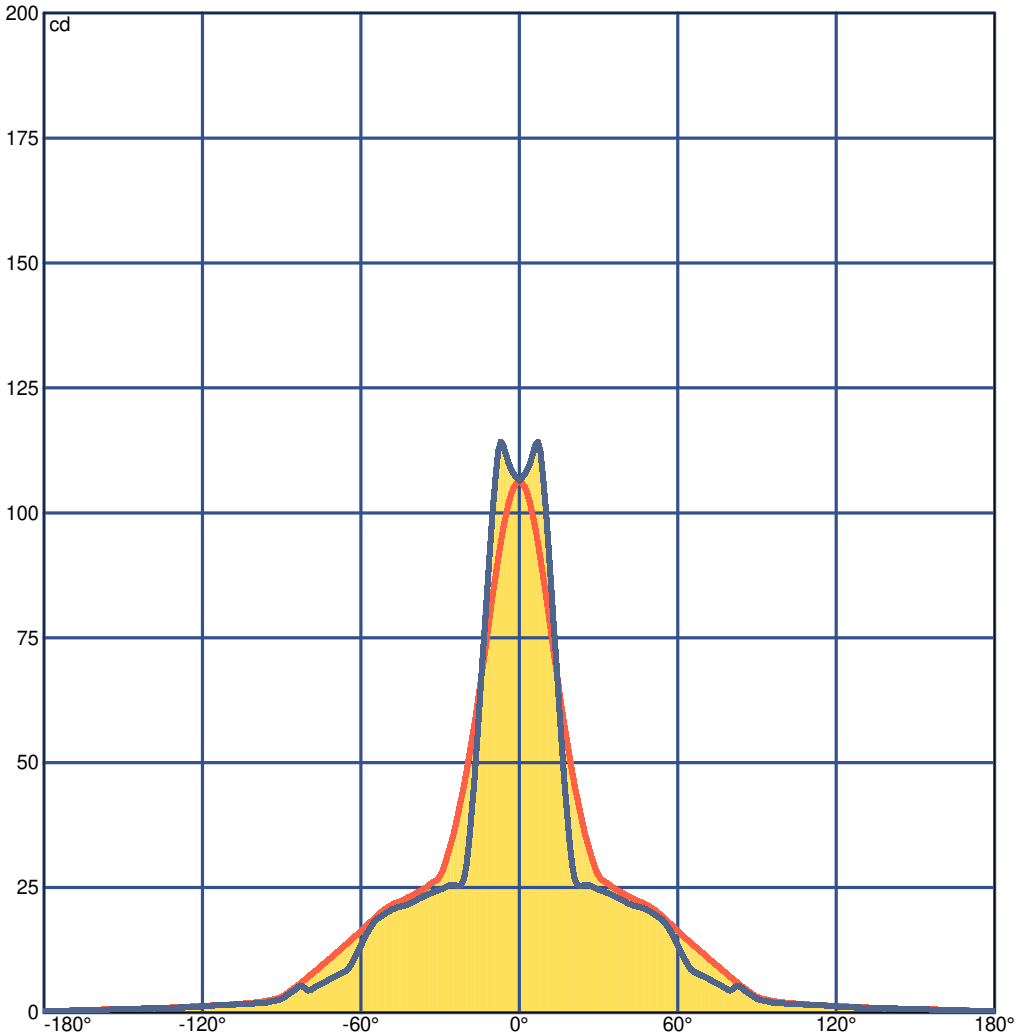
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Semiplanos C





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Flujo Fuente	118 lm	Valor Máximo	113.68 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 Loca	Vista Lateral					Vista Longitudinal				
x=2H y=2H	1.2	2.4	1.6	2.8	3.1	0.5	1.7	0.9	2.1	2.4
x=2H y=3H	2.7	3.7	3.1	4.1	4.5	1.2	2.3	1.6	2.7	3.1
x=2H y=4H	3.2	4.2	3.7	4.6	5.1	1.5	2.5	2.0	3.0	3.4
x=2H y=6H	3.6	4.6	4.1	5.0	5.5	1.8	2.7	2.3	3.2	3.6
x=2H y=8H	3.8	4.7	4.3	5.2	5.6	2.0	2.9	2.4	3.3	3.8
x=2H y=12H	3.9	4.8	4.4	5.3	5.8	2.1	3.0	2.6	3.5	4.0
x=4H y=2H	1.7	2.7	2.1	3.1	3.5	1.1	2.1	1.5	2.5	2.9
x=4H y=3H	3.3	4.2	3.8	4.7	5.2	2.1	2.9	2.6	3.4	3.9
x=4H y=4H	4.0	4.8	4.6	5.3	5.8	2.6	3.4	3.1	3.8	4.3
x=4H y=6H	4.6	5.3	5.1	5.8	6.3	3.0	3.6	3.5	4.1	4.7
x=4H y=8H	4.8	5.5	5.4	6.0	6.5	3.1	3.8	3.7	4.3	4.9
x=4H y=12H	5.0	5.6	5.6	6.1	6.7	3.3	3.9	3.9	4.4	5.0
x=8H y=4H	4.2	4.9	4.8	5.4	6.0	3.0	3.6	3.5	4.1	4.7
x=8H y=6H	5.0	5.5	5.5	6.0	6.6	3.6	4.1	4.1	4.6	5.2
x=8H y=8H	5.3	5.7	5.9	6.3	6.9	3.8	4.3	4.4	4.9	5.5
x=8H y=12H	5.5	5.9	6.1	6.5	7.2	4.1	4.5	4.7	5.1	5.7
x=12H y=4H	4.3	4.8	4.8	5.4	5.9	3.0	3.6	3.6	4.1	4.7
x=12H y=6H	5.0	5.5	5.6	6.1	6.7	3.7	4.1	4.3	4.7	5.3
x=12H y=8H	5.4	5.8	6.0	6.4	7.0	4.0	4.4	4.6	5.0	5.6

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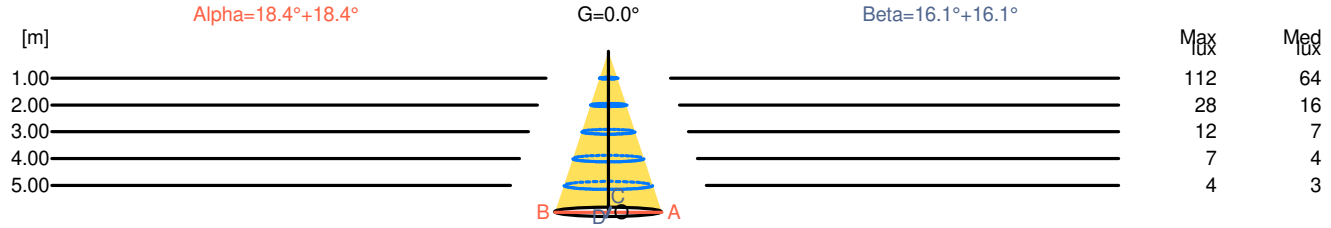
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Flujo Fuente	118 lm	Valor Máximo	113.68 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

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	106.43	99.68	64.73	35.56	25.18	22.25	18.82	13.91	9.35	4.97
OB	106.43	99.68	64.73	35.56	25.18	22.25	18.82	13.91	9.35	4.97
OC	106.43	111.52	61.85	25.55	23.56	21.17	18.08	8.64	5.75	4.51
OD	106.43	111.52	61.85	25.55	23.56	21.17	18.08	8.64	5.75	4.51



H[m]	D[m]	Max lux	Med lux	Alpha=18.4°+18.4° G=0.0
1.00	0.66	112	64	
2.00	1.33	28	16	
3.00	1.99	12	7	
4.00	2.66	7	4	
5.00	3.32	4	3	

H[m]	D[m]	Max lux	Med lux	Beta=16.1°+16.1° G=0.0
1.00	0.58	112	64	
2.00	1.16	28	16	
3.00	1.73	12	7	
4.00	2.31	7	4	
5.00	2.89	4	3	

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Flujo Total=118.00 Flujo Luminaria=118.00

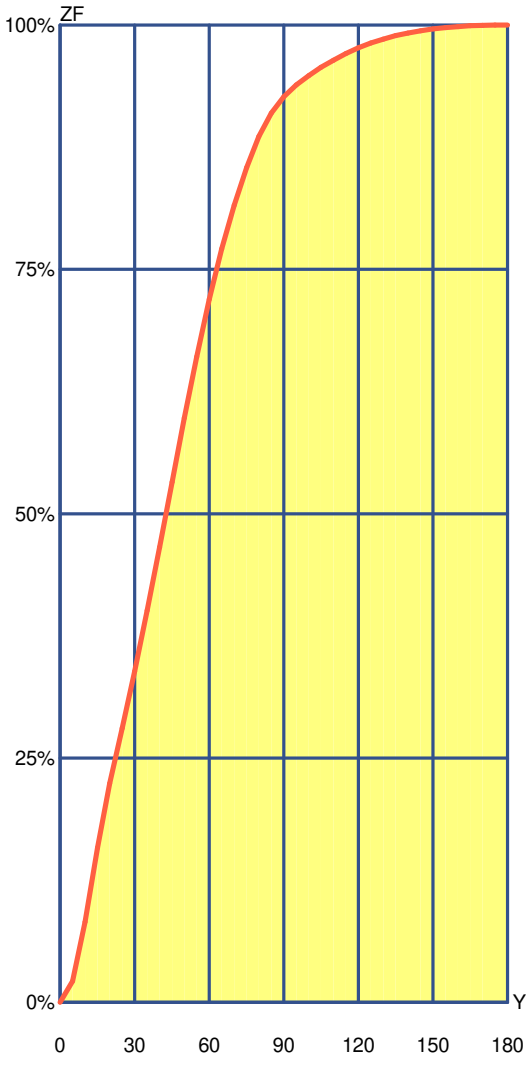
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.35	0.43	0.49	0.56	0.61	0.68	0.74	0.78	0.82	0.85	0.92	0.96
RC	4	4	4	5	5	5	5	5	5	5	5	5

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 %



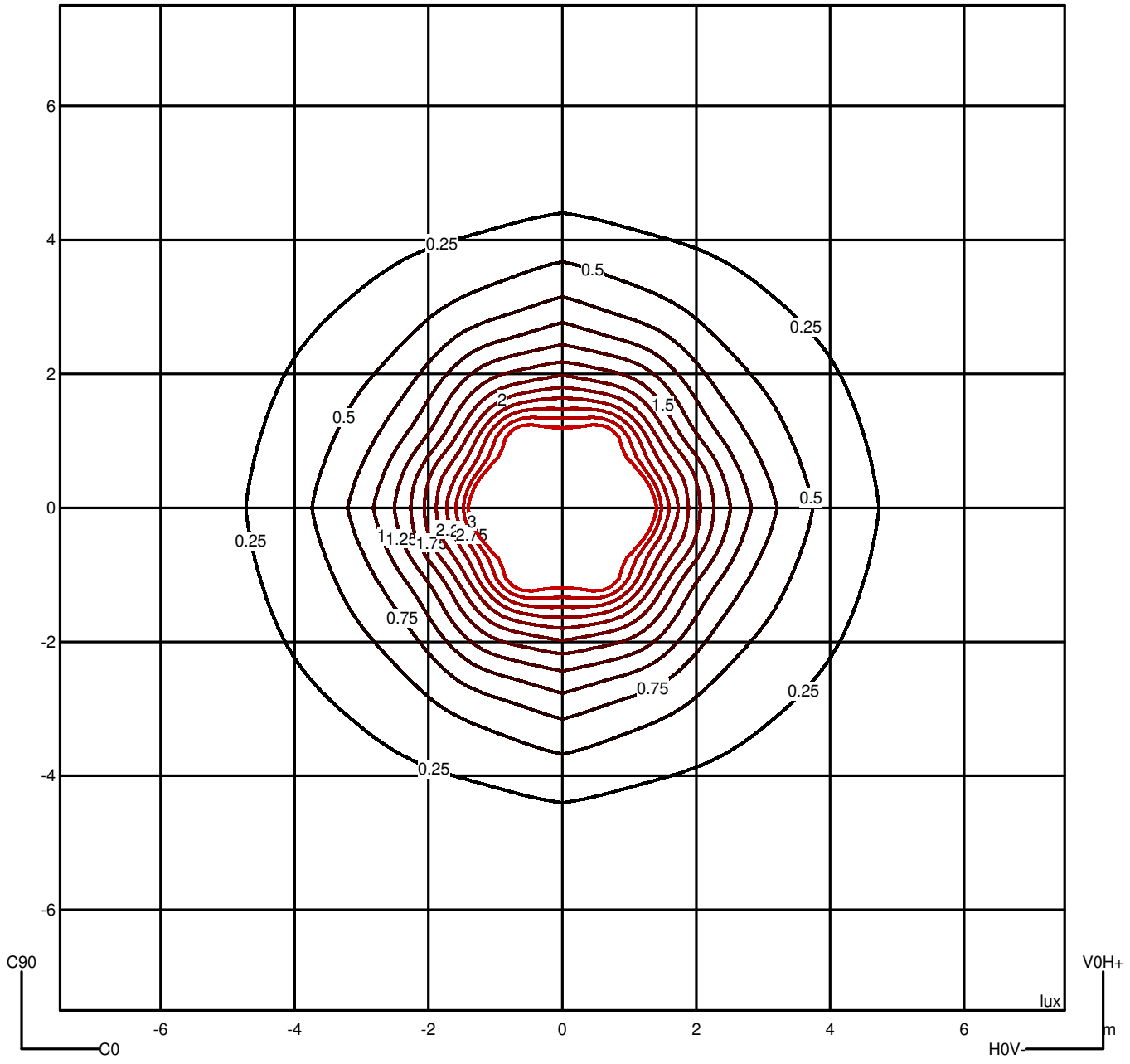
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	21.48	21.48	2.15 %	2.15 %
10°	60.57	82.05	6.06 %	8.20 %
15°	76.21	158.26	7.62 %	15.83 %
20°	65.78	224.03	6.58 %	22.40 %
25°	56.43	280.46	5.64 %	28.05 %
30°	58.28	338.74	5.83 %	33.87 %
35°	62.16	400.90	6.22 %	40.09 %
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_2400K_SAND_37802324300
Ensayo
Código CL092A24D006VP
Nombre KANDO_P111R_OUTDOOR_2400K_SAND_37802324300

Flujo Luminaria	118 lm	Potencia Luminaria	5.1 W	Eficacia	23.137 lm/W	Eficiencia	100.00%
Flujo Fuente	118 lm	Valor Máximo	113.68 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	118 lm	Valor Máximo	113.68 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

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]*

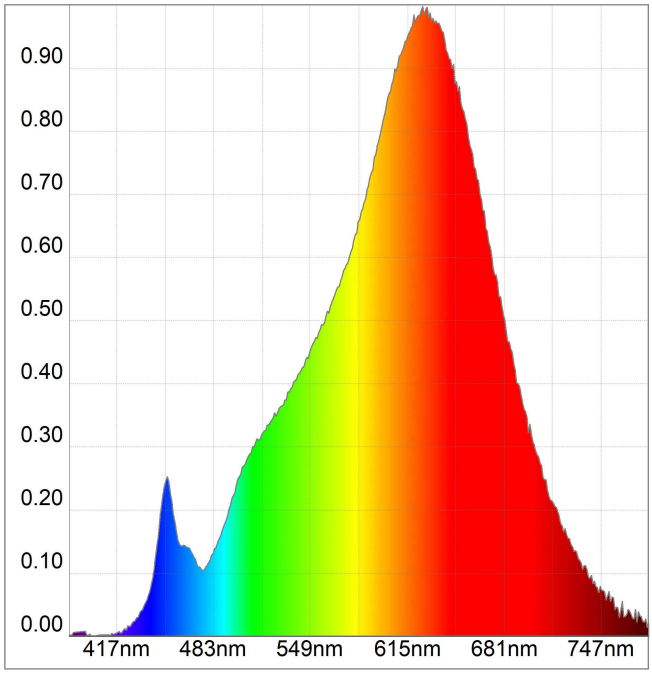
CRI8(Ra) [93.8]* CRI15(Rav) [91.8]*

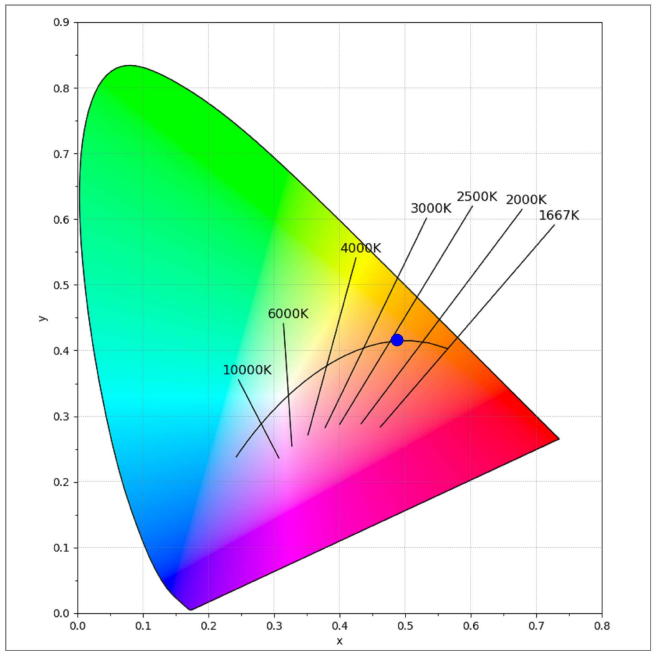
R 1: 94.2	R 2: 97.9	R 3: 99.2	R 4: 94.9	R 5: 94.7
R 6: 97.8	R 7: 90.8	R 8: 80.5	R 9: 59.6	R10: 94.6
R11: 97.8	R12: 90.8	R13: 95.4	R14: 99.1	R15: 88.9

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

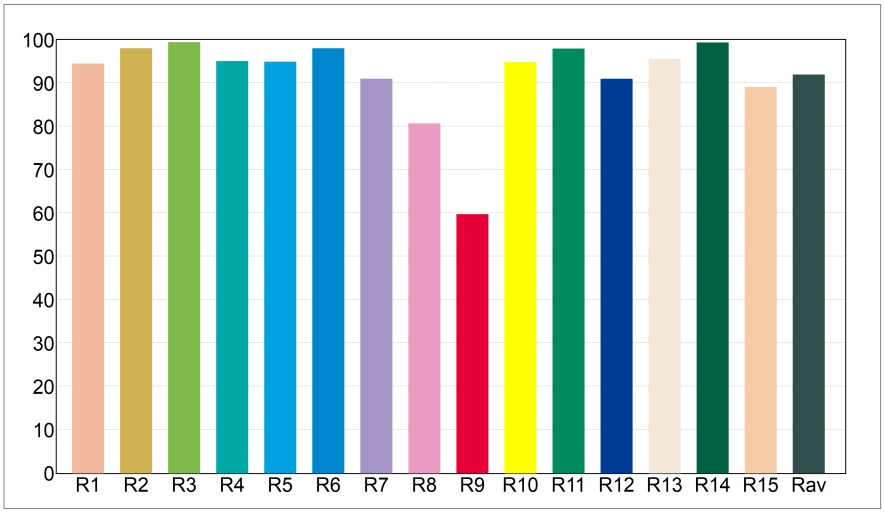


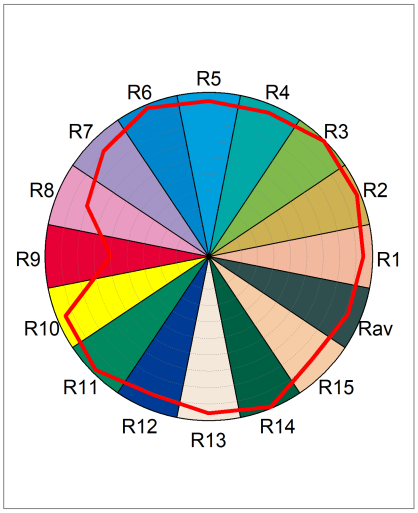


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Flujo Luminaria	118 lm	Potencia Luminaria	5.1 W	Eficacia	23.137 lm/W	Eficiencia	100.00%
Flujo Fuente	118 lm	Valor Máximo	113.68 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico

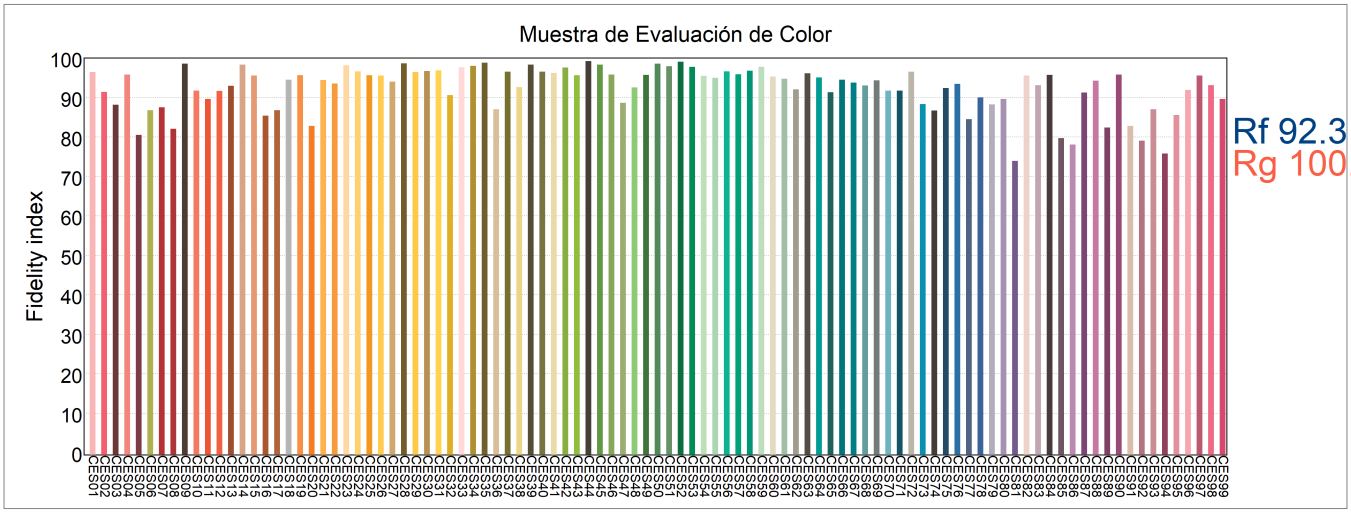
Gráficos del IRC





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Flujo Fuente	118 lm	Valor Máximo	113.68 cd	Posición	C=90.00 G=7.50	CG	Bisimétrico



Coordenadas de Cromaticidad (a' b') 99 muestras

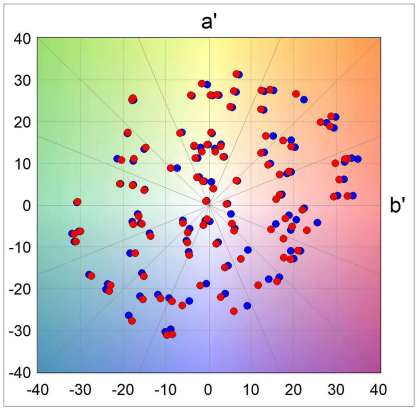


Gráfico Vectorial de Color

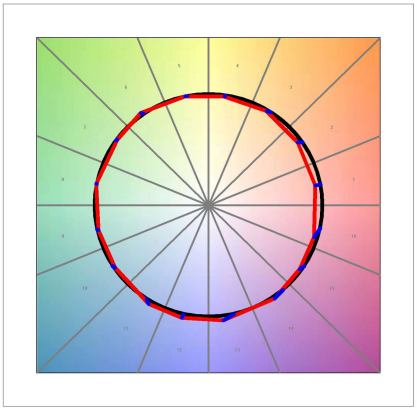


Gráfico de Distorsión de Color

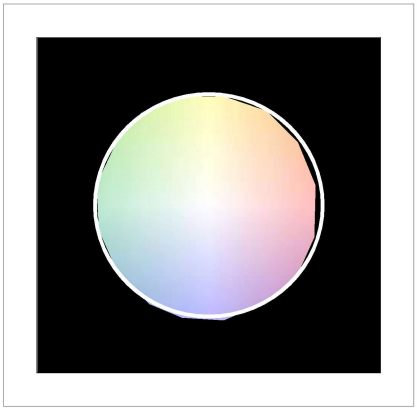


Diagrama Rf vs Rg

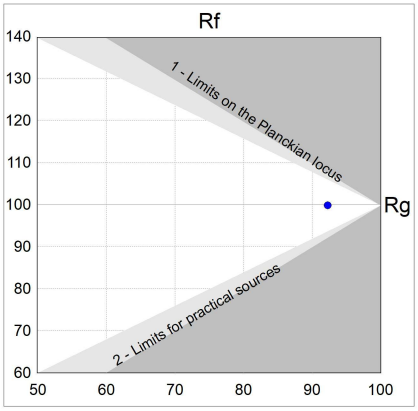
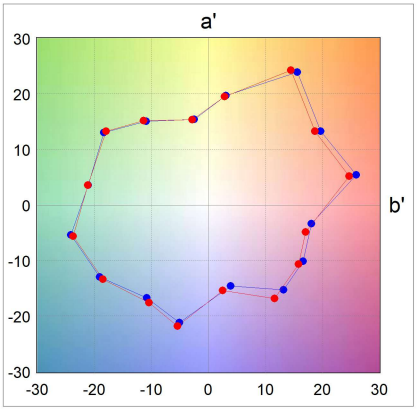


Diagrama Gamut



Cambios por Bin

