Luminaria

Código	37802318189
Nombre	KANDO_P111R_2700K_WHITE_RIBBON_37802318189
Familia	OxyTech

Ensayo

Código	CL092A24D019GP
Nombre	KANDO_P111R_2700K_WHITE_RIBBON_37802318189

Datos Fuente de luz

Código	37802318189	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	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

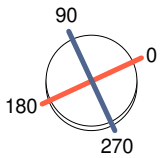
Luminaria Redonda	Diam.	490 mm	Altura	760 mm	
Área Luminosa Redonda	Diam.	410 mm	Altura	460 mm	
Área Luminosa Horizontal	0.132025 m2		Área Emisión sobre Pl. 180°	0.188600 m2	
Área Emisión sobre Pl. 0°	0.188600 m2		Área Emisión sobre Pl. 270°	0.188600 m2	
Área Emisión sobre Pl. 90°	0.188600 m2		Área de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

Análisis Fotométrico

Flujo Luminaria	289.0 lm	Flujo Fuente	289.0 lm
Eficacia	52.545 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

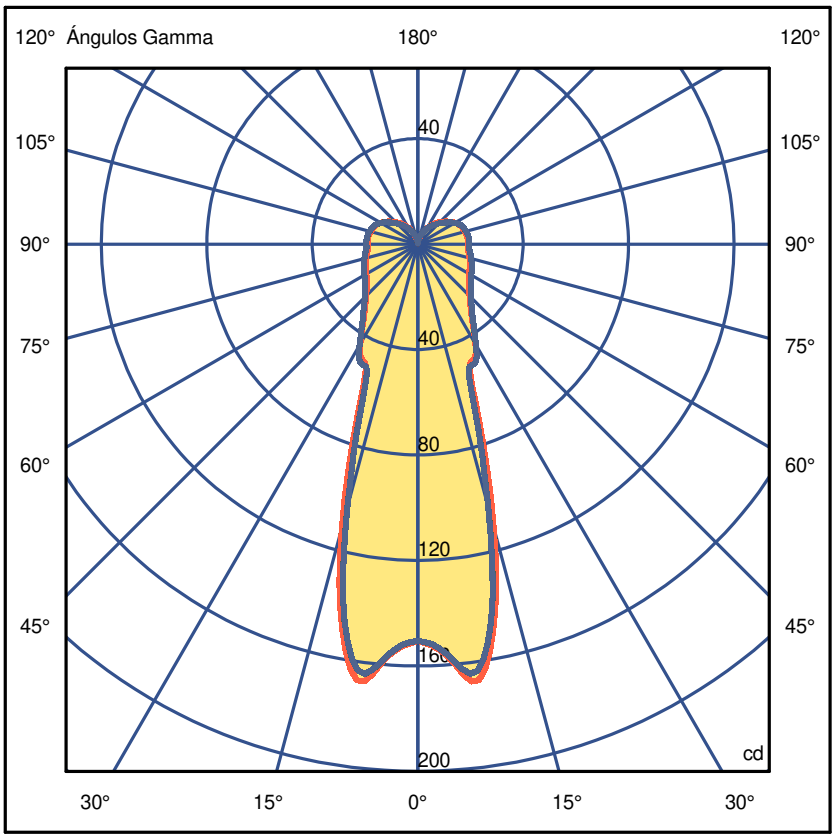


Diam=490mm





ULOR 31.01 %
DLOR 68.99 %
RN 31.01 %



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Flujo Luminaria	289 lm	Potencia Luminaria	5.5 W	Eficacia	52.545 lm/W	Eficiencia	100.00%
Flujo Fuente	289 lm	Valor Máximo	167.61 cd	Posición	C=0.00 G=7.50	CG	Bisimétrico

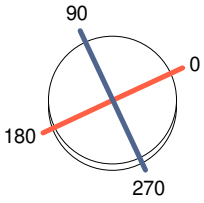
Tabla de Intensidad Luminosa cd **Tabla 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	150.38100	150.38100	150.38100	150.38100	150.38100	150.38100	150.38100
G 2.5	153.10758	153.16803	153.42497	153.51340	153.19280	152.72047	152.47818
G 5.0	159.66858	159.83359	160.38689	160.63723	160.12394	159.30849	158.88289
G 7.5	167.61373	167.24278	166.83092	166.33723	165.19904	164.20122	164.16969
G 10.0	157.05903	156.89963	155.97771	154.84629	153.96700	153.43597	153.25791
G 12.5	136.95088	135.55285	133.42762	131.64981	131.00306	131.10720	131.29105
G 15.0	111.23155	110.36700	108.95233	107.16698	105.25249	103.69889	103.05832
G 17.5	85.79810	85.54192	84.64381	83.15620	81.15611	79.30121	78.82090
G 20.0	64.16478	64.16675	63.42066	62.10742	60.94612	60.03602	59.66802
G 22.5	51.40683	51.34466	50.94527	50.54957	50.50743	50.50439	50.50611
G 25.0	48.86091	49.02325	49.24538	49.51773	49.81695	50.06433	50.16735
G 27.5	47.40997	47.63628	47.81509	47.89887	48.02284	48.13267	48.29537
G 30.0	43.70483	43.97180	44.11014	44.00110	44.02224	44.02395	44.13873
G 32.5	39.68639	39.94933	40.09712	40.01377	40.02330	40.00311	40.08955
G 35.0	36.18645	36.44757	36.62196	36.60049	36.65277	36.67143	36.76765
G 37.5	33.43985	33.68560	33.86043	33.86771	33.93135	33.96066	34.05001
G 40.0	31.18889	31.41183	31.57704	31.60733	31.71489	31.79184	31.89768
G 42.5	29.29494	29.42118	29.56483	29.70767	29.86964	29.99273	30.04160
G 45.0	27.74506	27.89968	28.07119	28.19310	28.35984	28.48271	28.53058
G 47.5	26.45148	26.59691	26.76668	26.89507	27.07188	27.20510	27.25772
G 50.0	25.34947	25.48493	25.64727	25.78045	25.96755	26.11425	26.17358
G 52.5	24.44172	24.56382	24.72291	24.86050	25.05486	25.20875	25.27133
G 55.0	23.66533	23.79089	23.95661	24.10012	24.28958	24.43549	24.49389
G 57.5	23.07451	23.15845	23.31064	23.49493	23.67470	23.81128	23.86551
G 60.0	22.54045	22.64101	22.81567	23.01491	23.19299	23.31942	23.36750
G 62.5	22.07642	22.16934	22.34786	22.56449	22.77257	22.92868	22.99019
G 65.0	21.67661	21.75769	21.92910	22.15039	22.37817	22.55738	22.63001
G 67.5	21.32597	21.41171	21.58476	21.79128	21.98107	22.11844	22.17135
G 70.0	20.99709	21.07908	21.24062	21.42568	21.58459	21.69309	21.73324
G 72.5	20.64603	20.72094	20.87106	21.04340	21.19108	21.29165	21.32881
G 75.0	20.29505	20.37116	20.52271	20.69248	20.83118	20.92135	20.95352
G 77.5	19.94898	20.02839	20.18166	20.34852	20.47826	20.55833	20.58569
G 80.0	19.62104	19.70148	19.85263	20.01472	20.13787	20.21194	20.23669
G 82.5	19.30328	19.38505	19.53696	19.69661	19.81281	19.87908	19.90012
G 85.0	18.99558	19.07831	19.22857	19.38601	19.50104	19.56704	19.58812
G 87.5	18.91037	18.98432	19.12974	19.28202	19.38874	19.44640	19.46369
G 90.0	18.99048	19.06652	19.21202	19.36267	19.46657	19.52146	19.53750
G 92.5	19.01571	19.09211	19.23628	19.38534	19.48850	19.54331	19.55944
G 95.0	19.02549	19.09387	19.23025	19.37364	19.47453	19.52931	19.54582
G 97.5	19.00790	19.05918	19.16837	19.29495	19.40324	19.47676	19.50386
G100.0	18.89467	18.93823	19.03490	19.15319	19.26355	19.34426	19.37556
G102.5	18.72563	18.76040	18.84394	18.95276	19.06287	19.14832	19.18268
G105.0	18.51292	18.51910	18.57551	18.70419	18.79968	18.87535	18.95989
G107.5	18.27762	18.29253	18.34647	18.43846	18.55949	18.66828	18.71551
G110.0	18.00311	18.03753	18.10698	18.20127	18.30644	18.39354	18.42984
G112.5	17.69839	17.75109	17.83916	17.93523	18.01527	18.06864	18.08805
G115.0	17.32295	17.40002	17.51185	17.59832	17.59660	17.56100	17.57763
G117.5	16.84339	16.94208	17.06653	17.12972	17.05714	16.94521	16.91441
G120.0	16.24542	16.38903	16.50936	16.51994	16.37798	16.19342	16.11988
G122.5	15.56018	15.71304	15.83694	15.83386	15.64035	15.39976	15.28998
G125.0	14.83604	14.99265	15.10888	15.08092	14.85423	14.56520	14.42248
G127.5	14.07847	14.22257	14.35290	14.32431	14.05546	13.72001	13.55543
G130.0	13.31967	13.46758	13.59390	13.55085	13.25707	12.89692	12.72114
G132.5	12.55797	12.70429	12.82400	12.76777	12.45451	12.07593	11.89197
G135.0	11.80505	11.93408	12.03288	11.96403	11.65428	11.28694	11.10950
G137.5	11.03849	11.15614	11.24184	11.16647	10.86202	10.50505	10.33324
G140.0	10.26853	10.37193	10.43661	10.35326	10.06658	9.73719	9.57970
G142.5	9.48510	9.57825	9.63748	9.56287	9.30362	9.00529	8.86259
G145.0	8.70344	8.78311	8.82357	8.75211	8.53429	8.28862	8.17189
G147.5	7.92244	7.98314	8.01313	7.95631	7.78623	7.59494	7.50414
G150.0	7.13454	7.18597	7.20524	7.15476	7.01876	6.86874	6.79799
G152.5	6.36036	6.38895	6.38749	6.34758	6.26974	6.19005	6.15349
G155.0	5.59683	5.61316	5.60474	5.57583	5.53317	5.49350	5.47600
G157.5	4.81587	4.82849	4.82531	4.81693	4.81186	4.81025	4.81015
G160.0	4.05919	4.07756	4.08564	4.09687	4.11999	4.14479	4.15638
G162.5	3.34444	3.36149	3.37862	3.40755	3.45400	3.49969	3.52032
G165.0	2.67507	2.69751	2.72585	2.76769	2.82514	2.87826	2.90162
G167.5	2.05208	2.08012	2.11694	2.16725	2.23075	2.28728	2.31171
G170.0	1.50856	1.54251	1.57913	1.62053	1.66609	1.70407	1.71995
G172.5	1.02419	1.06929	1.10595	1.12955	1.15966	1.18224	1.19113
G175.0	0.59959	0.63961	0.67174	0.69107	0.70562	0.71263	0.71445
G177.5	0.32419	0.33547	0.34377	0.34700	0.34643	0.34366	0.34200
G180.0	0.25827	0.25827	0.25827	0.25827	0.25827	0.25827	0.25827

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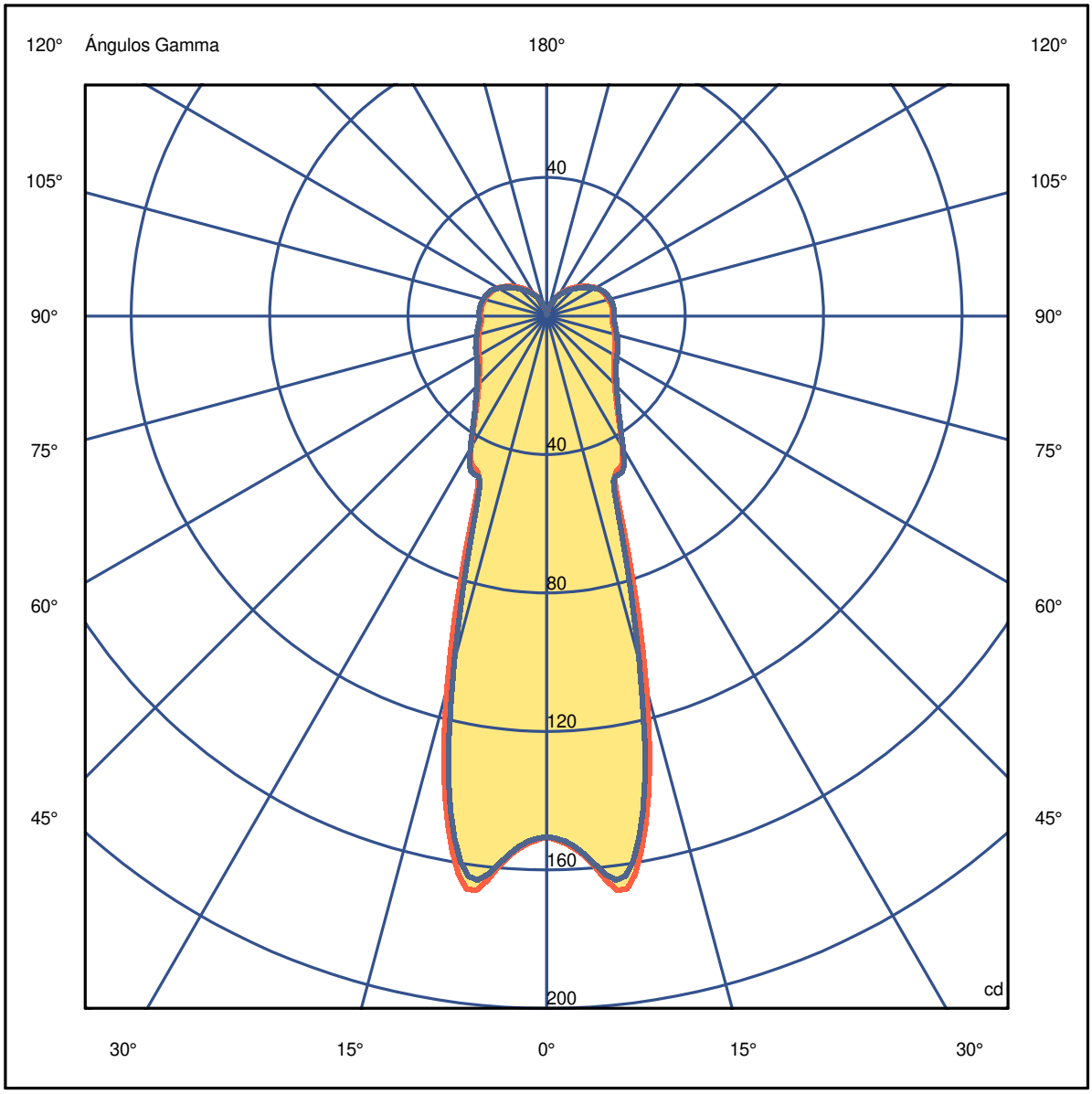
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Flujo Fuente	289 lm	Valor Máximo	167.61 cd	Posición	C=0.00 G=7.50	CG	Bisimétrico

Diam=490mm



Semiplanos C

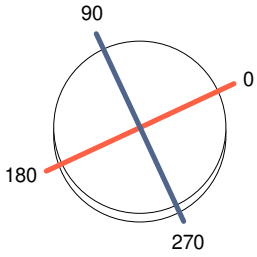




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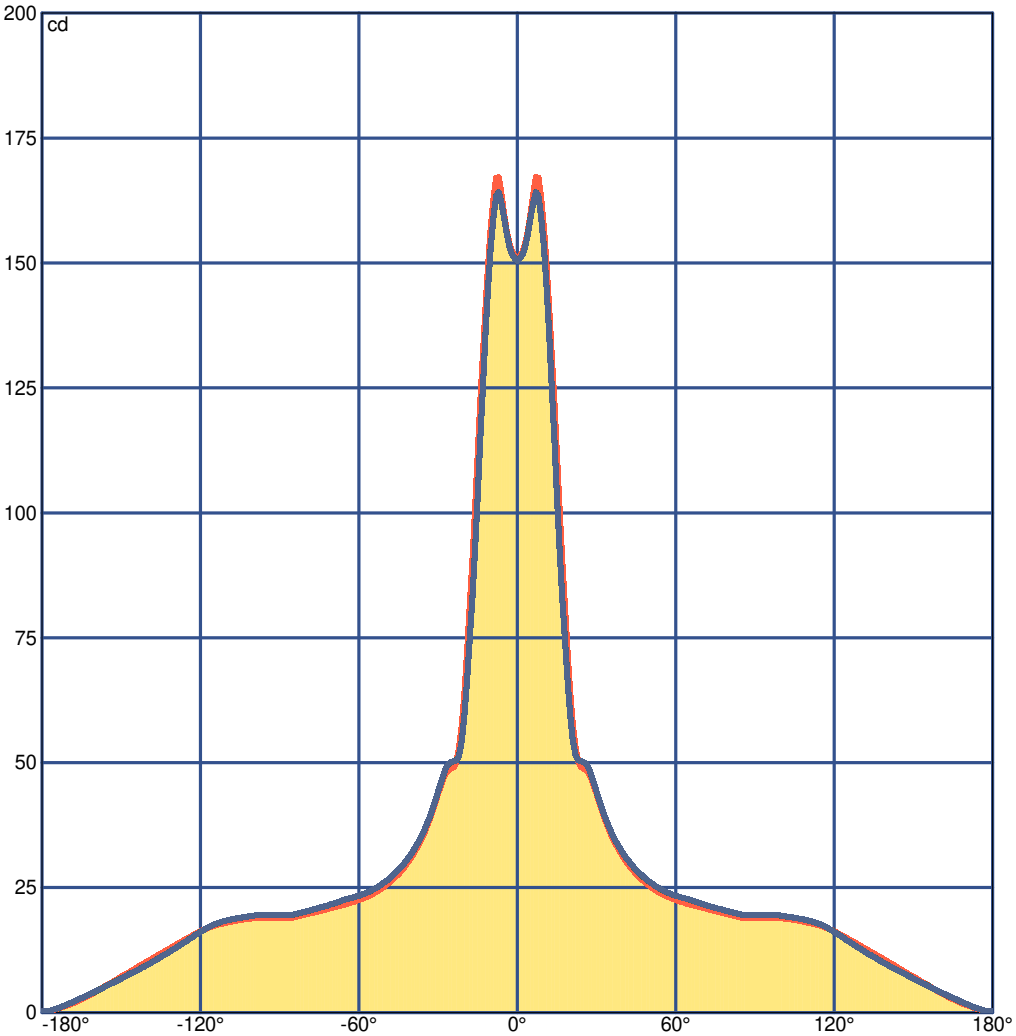
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Semiplanos C





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Flujo Fuente	289 lm	Valor Máximo	167.61 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	1.7	2.7	2.4	3.4	4.2	1.9	2.9	2.6	3.6	4.4
x=2H y=3H	3.8	4.7	4.5	5.4	6.2	3.9	4.9	4.7	5.6	6.4
x=2H y=4H	4.8	5.7	5.6	6.4	7.3	5.0	5.9	5.8	6.6	7.5
x=2H y=6H	5.9	6.7	6.7	7.5	8.4	6.1	6.9	6.9	7.7	8.6
x=2H y=8H	6.5	7.2	7.2	8.0	8.9	6.7	7.4	7.4	8.2	9.1
x=2H y=12H	7.0	7.7	7.7	8.5	9.4	7.2	7.9	7.9	8.7	9.6
x=4H y=2H	2.4	3.3	3.2	4.0	4.9	2.5	3.4	3.3	4.1	5.0
x=4H y=3H	4.7	5.4	5.5	6.2	7.1	4.8	5.6	5.6	6.4	7.3
x=4H y=4H	5.9	6.6	6.7	7.4	8.3	6.1	6.8	6.9	7.6	8.5
x=4H y=6H	7.2	7.8	8.0	8.6	9.6	7.4	8.0	8.2	8.8	9.8
x=4H y=8H	7.8	8.4	8.6	9.2	10.2	8.0	8.5	8.8	9.4	10.4
x=4H y=12H	8.4	8.9	9.3	9.8	10.8	8.6	9.1	9.5	10.0	11.0
x=8H y=4H	6.4	7.0	7.2	7.8	8.8	6.6	7.1	7.4	7.9	8.9
x=8H y=6H	7.9	8.4	8.8	9.2	10.3	8.1	8.5	8.9	9.4	10.4
x=8H y=8H	8.7	9.1	9.6	10.0	11.0	8.8	9.2	9.7	10.1	11.2
x=8H y=12H	9.5	9.8	10.4	10.7	11.8	9.6	10.0	10.5	10.9	12.0
x=12H y=4H	6.5	7.0	7.3	7.8	8.9	6.6	7.1	7.5	8.0	9.0
x=12H y=6H	8.1	8.5	9.0	9.4	10.4	8.2	8.6	9.1	9.5	10.6
x=12H y=8H	9.0	9.3	9.8	10.2	11.3	9.1	9.5	10.0	10.3	11.4

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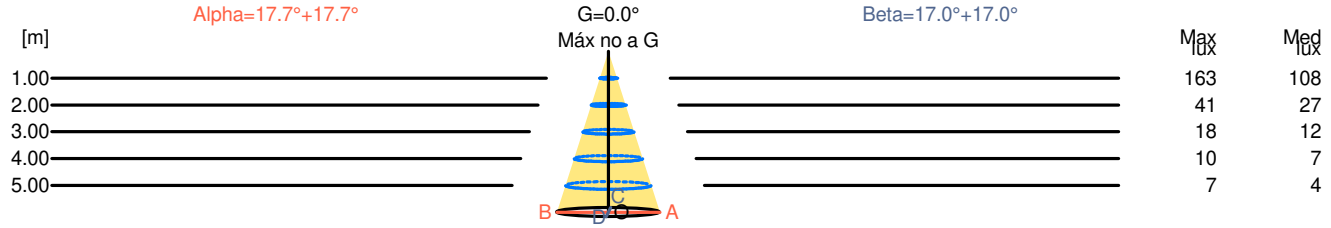
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Apertura a 50.00 % de Max Intensidad

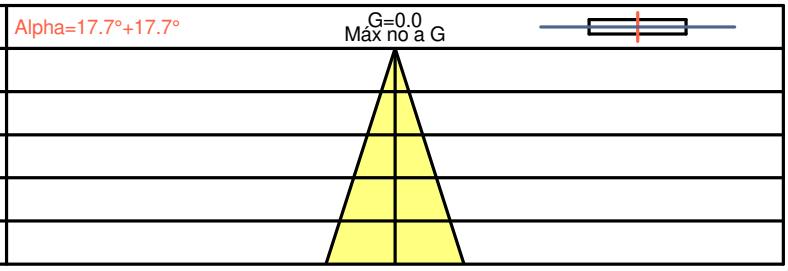
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	0.32	0.64	0.96	1.28	1.60	OC	0.31	0.61	0.92	1.22	1.53
OB	0.32	0.64	0.96	1.28	1.60	OD	0.31	0.61	0.92	1.22	1.53

Intensidades Luminosas [cd]

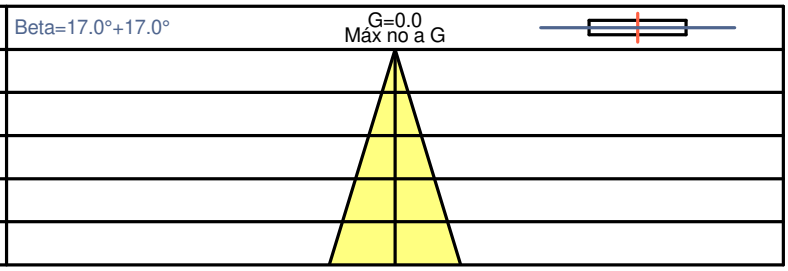
	0	5	15	25	35	45	55	65	75	85
OA	150.38	159.67	111.23	48.86	36.19	27.75	23.67	21.68	20.30	19.00
OB	150.38	159.67	111.23	48.86	36.19	27.75	23.67	21.68	20.30	19.00
OC	150.38	158.88	103.06	50.17	36.77	28.53	24.49	22.63	20.95	19.59
OD	150.38	158.88	103.06	50.17	36.77	28.53	24.49	22.63	20.95	19.59



H[m]	D[m]	Max lux	Med lux
1.00	0.64	163	108
2.00	1.28	41	27
3.00	1.92	18	12
4.00	2.56	10	7
5.00	3.20	7	4



H[m]	D[m]	Max lux	Med lux
1.00	0.61	163	108
2.00	1.22	41	27
3.00	1.83	18	12
4.00	2.44	10	7
5.00	3.05	7	4



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Flujo Total=289.00 Flujo Luminaria=289.00

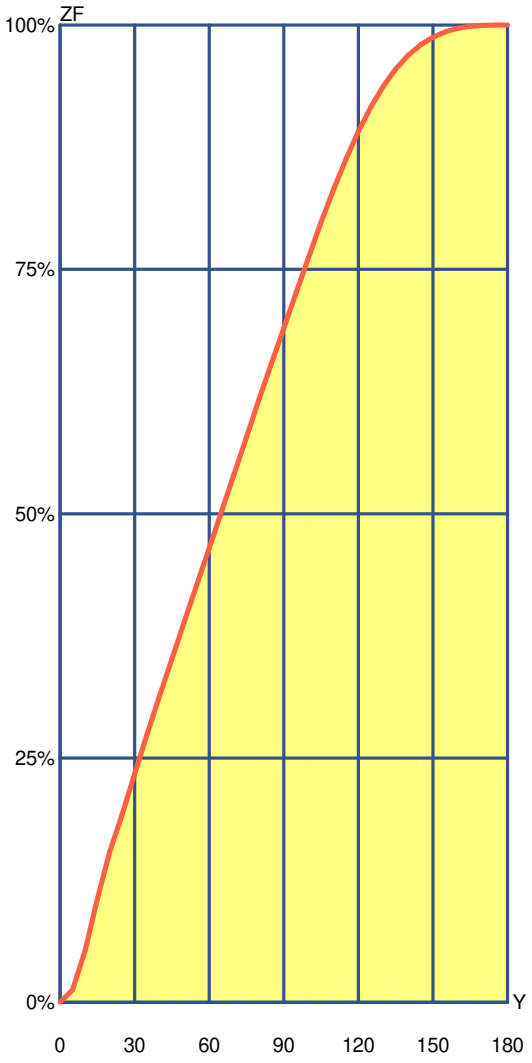
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.33	0.38	0.44	0.49	0.54	0.61	0.66	0.70	0.75	0.79	0.87	0.93
RC	5	5	5	6	6	6	7	7	7	7	7	7

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 %



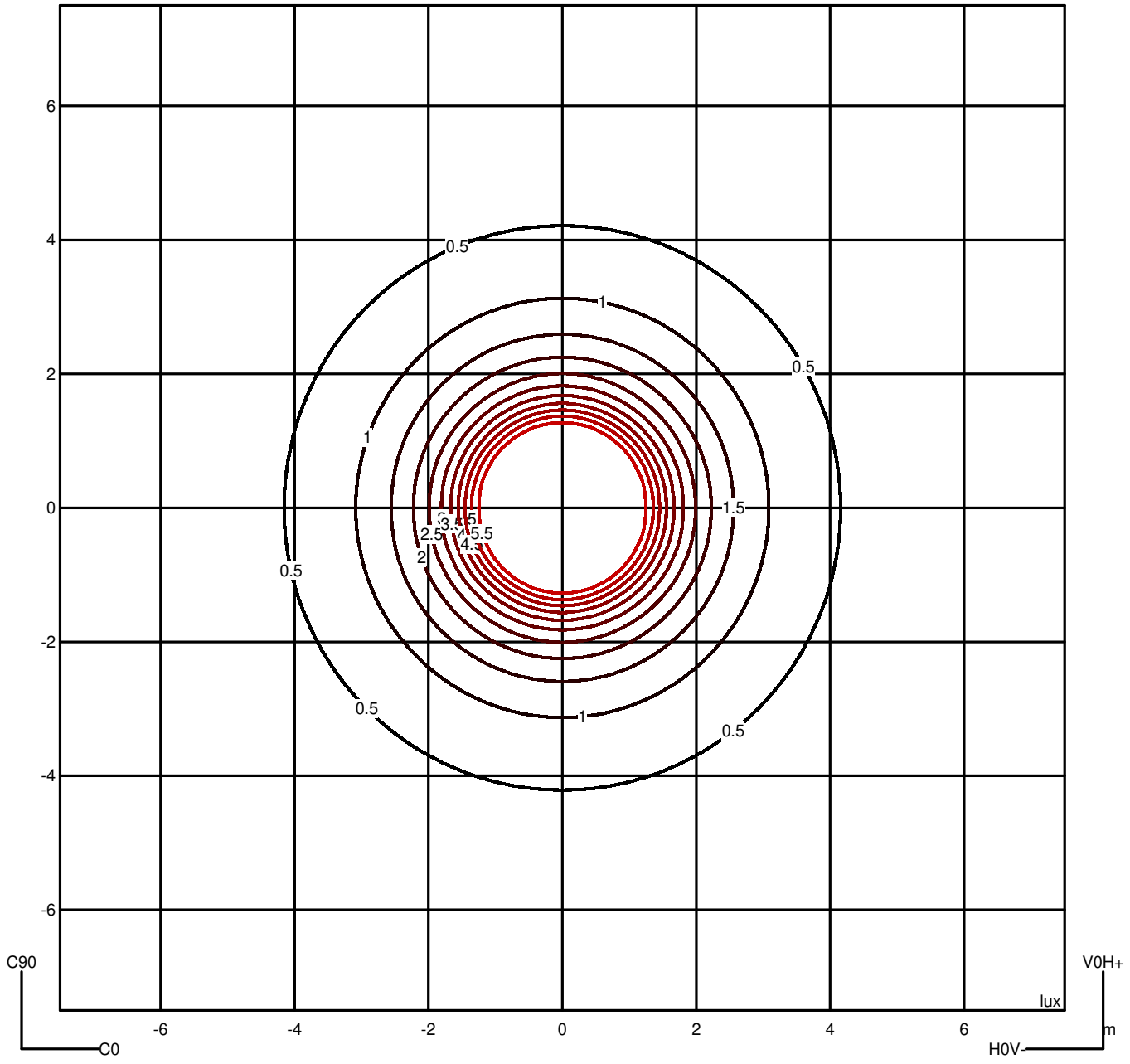
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	12.85	12.85	1.29 %	1.29 %
10°	39.99	52.84	4.00 %	5.28 %
15°	53.68	106.52	5.37 %	10.65 %
20°	47.26	153.78	4.73 %	15.38 %
25°	38.57	192.35	3.86 %	19.23 %
30°	41.40	233.75	4.14 %	23.37 %
35°	40.85	274.60	4.08 %	27.46 %
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_2700K_WHITE_RIBBON_37802318189

Flujo Luminaria	289 lm	Potencia Luminaria	5.5 W	Eficacia	52.545 lm/W	Eficiencia	100.00%
Flujo Fuente	289 lm	Valor Máximo	167.61 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	289 lm	Valor Máximo	167.61 cd	Posición	C=0.00 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]*

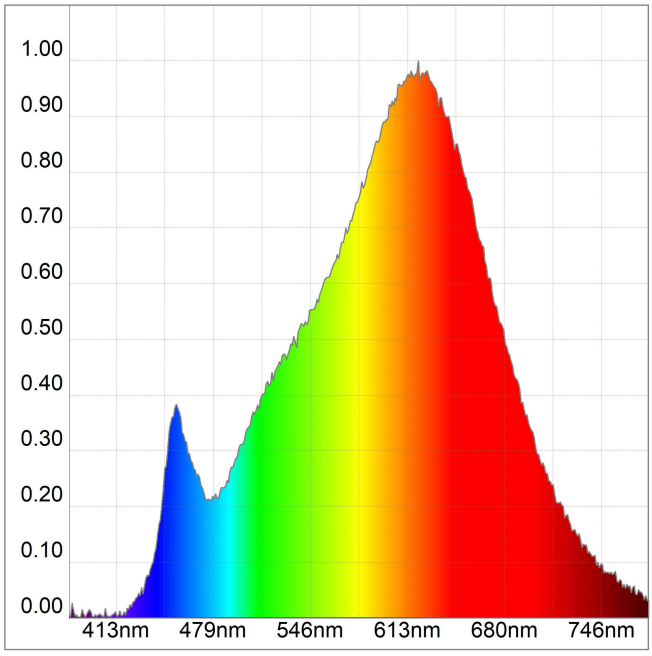
CRI8(Ra) [92.0]* CRI15(Rav) [89.3]*

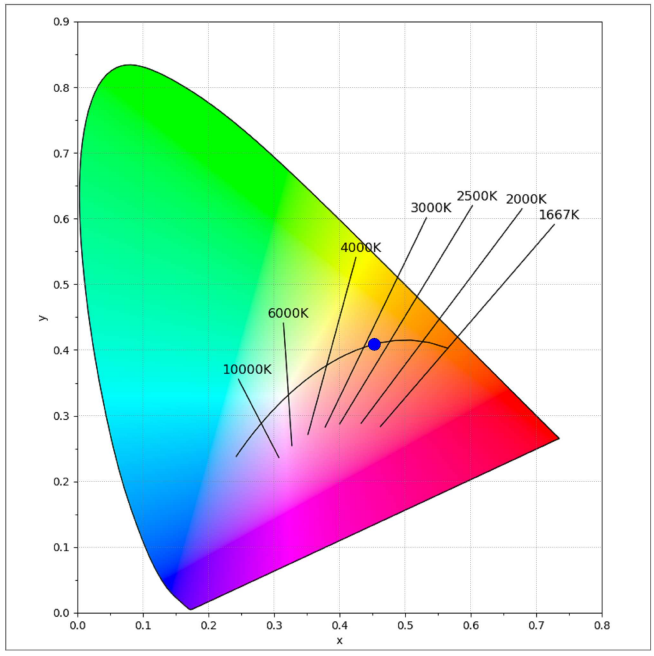
R 1: 92.1	R 2: 96.9	R 3: 98.3	R 4: 91.4	R 5: 92.1
R 6: 96.5	R 7: 90.1	R 8: 78.6	R 9: 54.1	R10: 92.2
R11: 92.4	R12: 83.6	R13: 93.5	R14: 99.7	R15: 87.5

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

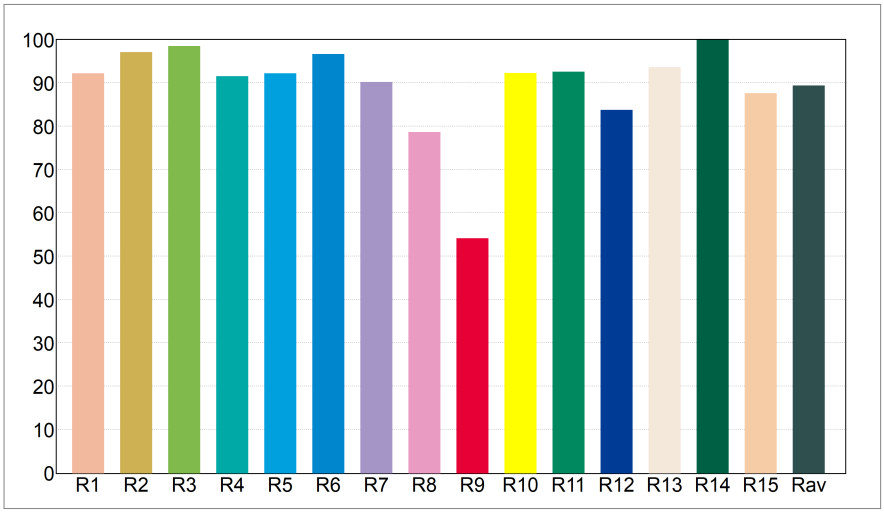


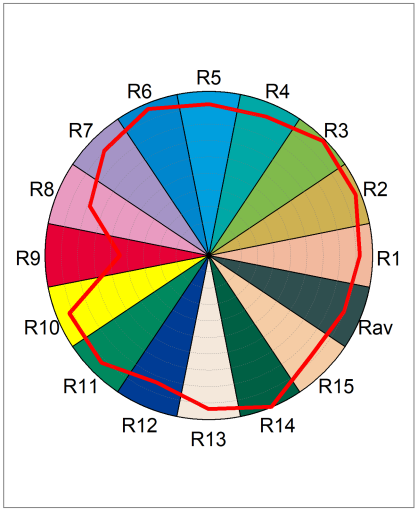


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Flujo Fuente	289 lm	Valor Máximo	167.61 cd	Posición	C=0.00 G=7.50	CG	Bisimétrico

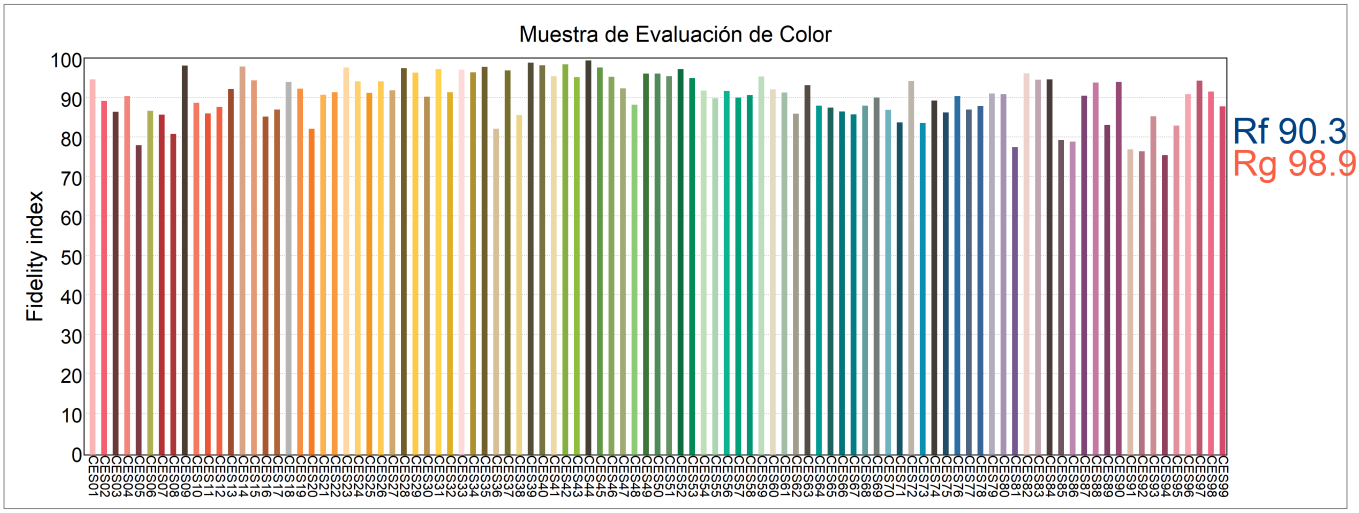
Gráficos del IRC





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Coordenadas de Cromaticidad (a' b') 99 muestras

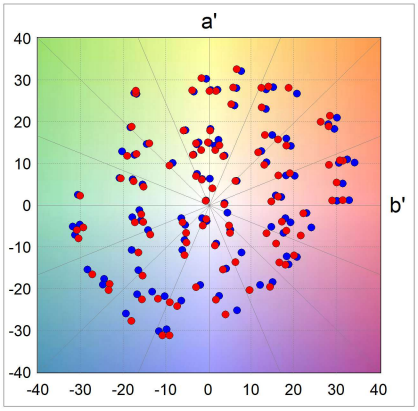


Gráfico Vectorial de Color

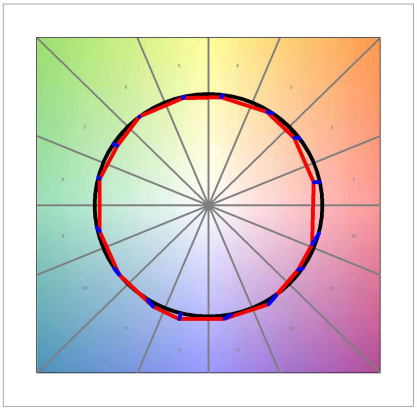


Gráfico de Distorsión de Color

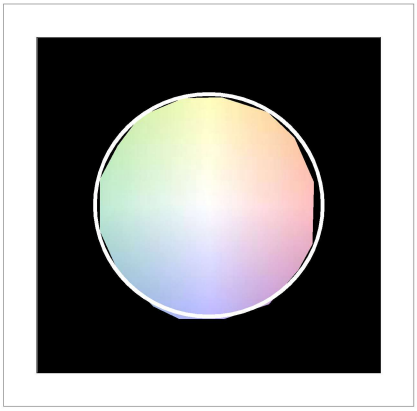


Diagrama Rf vs Rg

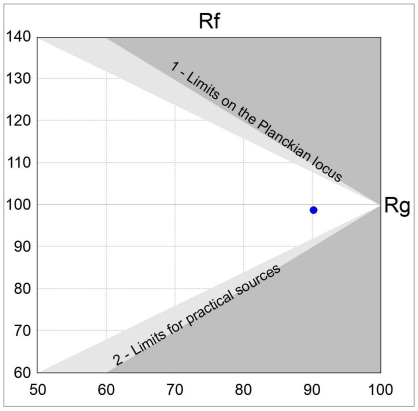
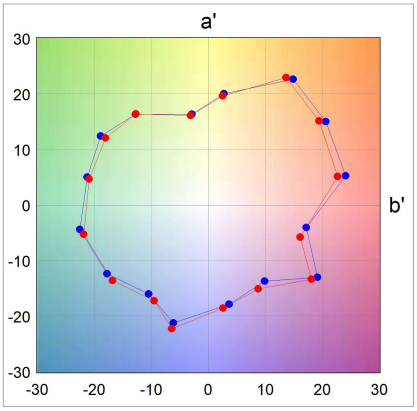


Diagrama Gamut



Cambios por Bin

