Luminaire
Code 37803327190
Name KANDO_M40_2200K_CREAM_RIBBON
Measurem.
Code CL092A24D014GP
Name KANDO_M40_2200K_CREAM_RIBBON

Luminaire Flux	363 lm	Luminaire Power	14.4 W	Efficacy	25.208 lm/W	Efficiency	100.00%
Source Flux	363 lm	Maximum value	269.45 cd	Position	C=75.00 G=5.00	CG	Double Symmetrical

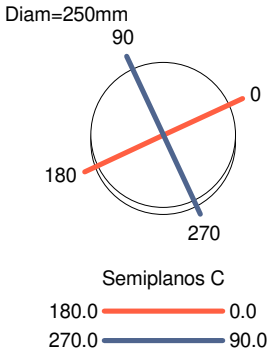
Round Luminaire	Diam. 250 mm	Height	60 mm
Round Luminous Area	Diam. 170 mm	Height	60 mm
Horizontal Luminous Area	0.022698 m2	Emitting area on Plane 180°	0.010200 m2
Emitting area on Plane 0°	0.010200 m2	Emitting area on Plane 270°	0.010200 m2
Emitting area on Plane 90°	0.010200 m2	Glare area at 76°	0.015388 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	24-10-2024	Maximum Gamma Angle	180
Measurement Distance	6.49	Measurement Flux	369 lm
Operator	ASSELUM	Rated Voltage	230.13 V
Temperature	24.80 °C	Rated Current	0.15 A
Humidity	44.60 %	Photocell	Czibula Grundmann
Notes	RM24093002		

Luminaire Sources

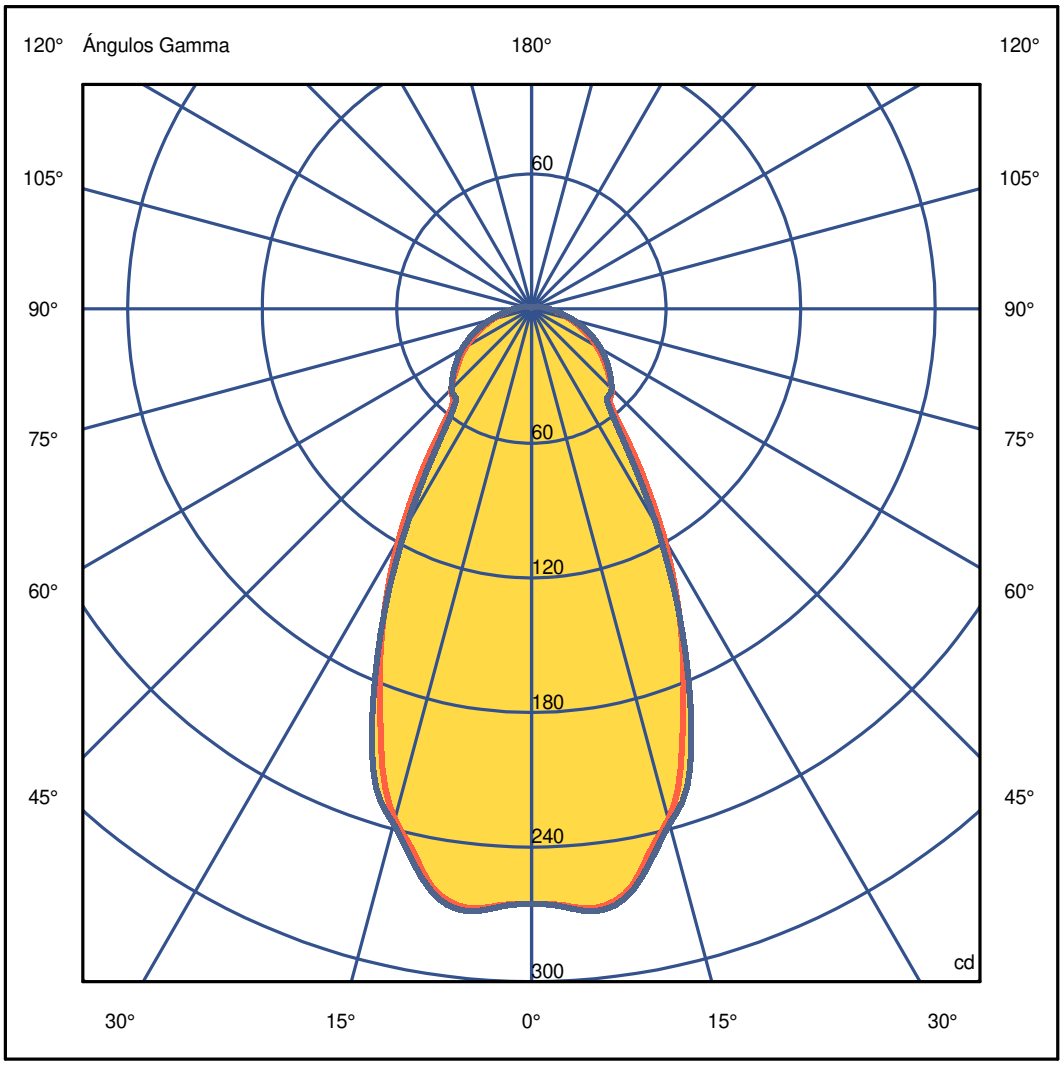
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	JB2835BWT-G-U27EA0000 (60x)	JB2835BWT-G-U22EA0000 (60x)	363.00	14.40	1

C.I.E.	63 83 94 95 100	D DIN 5040	A51
F UTE	0.95 C + 0.05 T	B NBN	BZ 2 / 1 / BZ 3 / 4 / BZ 4





ULOR 4.79 %
DLOR 95.21 %
RN 4.79 %



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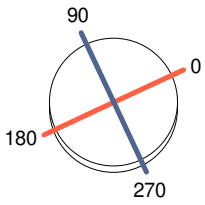
Luminous Intensity Table cd **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	265.11	265.11	265.11	265.11	265.11	265.11	265.11
G 2.5	265.71	265.56	265.77	266.08	266.26	266.33	266.33
G 5.0	268.34	268.49	268.86	269.26	269.45	269.45	269.42
G 7.5	267.37	267.81	268.17	268.46	268.81	269.11	269.24
G 10.0	260.54	261.47	261.69	261.74	262.02	262.38	262.56
G 12.5	246.55	247.99	248.73	249.17	249.60	249.97	250.13
G 15.0	235.61	235.21	234.61	234.49	235.30	236.65	237.68
G 17.5	219.38	218.20	217.23	218.25	221.20	224.73	227.34
G 20.0	197.10	197.96	198.45	199.92	203.12	206.56	208.17
G 22.5	176.86	178.50	179.76	180.94	182.22	183.31	183.76
G 25.0	157.53	158.46	158.90	159.05	159.08	159.07	159.06
G 27.5	137.81	137.36	136.17	135.03	134.55	134.55	134.64
G 30.0	118.57	117.54	115.28	113.02	111.72	111.23	111.16
G 32.5	98.71	97.93	95.71	93.13	91.09	89.83	89.40
G 35.0	80.25	80.07	78.61	76.39	73.95	71.98	71.16
G 37.5	63.77	64.45	64.17	63.00	60.79	58.80	58.54
G 40.0	54.31	54.02	54.01	54.30	53.24	52.16	52.17
G 42.5	52.39	51.92	51.94	52.38	51.90	51.35	51.59
G 45.0	50.57	50.71	50.97	51.09	50.67	50.12	50.40
G 47.5	47.58	47.56	47.70	47.88	48.01	48.07	48.08
G 50.0	44.62	44.44	44.47	44.71	45.13	45.54	45.73
G 52.5	41.67	41.40	41.36	41.66	42.29	42.95	43.25
G 55.0	39.06	38.65	38.51	38.79	39.67	40.64	40.75
G 57.5	36.35	35.92	35.77	36.08	37.04	38.10	38.28
G 60.0	33.55	33.17	33.09	33.47	34.47	35.53	35.74
G 62.5	30.79	30.53	30.56	30.98	31.93	32.91	33.09
G 65.0	28.01	27.87	28.03	28.51	29.27	30.01	30.33
G 67.5	25.25	25.23	25.51	26.02	26.65	27.21	27.45
G 70.0	22.61	22.71	23.07	23.57	24.06	24.44	24.59
G 72.5	20.10	20.24	20.64	21.11	21.51	21.77	21.86
G 75.0	17.76	17.93	18.33	18.75	19.02	19.15	19.18
G 77.5	15.59	15.78	16.15	16.50	16.68	16.72	16.71
G 80.0	13.69	13.86	14.19	14.47	14.53	14.46	14.40
G 82.5	11.81	11.99	12.28	12.49	12.47	12.35	12.27
G 85.0	10.19	10.30	10.49	10.60	10.56	10.44	10.38
G 87.5	8.78	8.89	9.06	9.15	9.05	8.88	8.79
G 90.0	7.69	7.81	7.96	8.02	7.90	7.71	7.61
G 92.5	6.74	6.87	7.00	7.04	6.92	6.74	6.64
G 95.0	5.92	6.06	6.19	6.21	6.08	5.89	5.79
G 97.5	5.24	5.37	5.49	5.51	5.38	5.19	5.10
G100.0	4.62	4.78	4.92	4.92	4.82	4.66	4.58
G102.5	4.10	4.26	4.40	4.45	4.36	4.21	4.13
G105.0	3.72	3.87	4.00	4.04	3.97	3.85	3.78
G107.5	3.40	3.53	3.64	3.69	3.63	3.53	3.48
G110.0	3.08	3.20	3.30	3.34	3.29	3.21	3.17
G112.5	2.76	2.87	2.95	2.98	2.95	2.88	2.85
G115.0	2.45	2.55	2.63	2.66	2.63	2.58	2.55
G117.5	2.19	2.28	2.35	2.37	2.33	2.28	2.25
G120.0	1.96	2.04	2.09	2.12	2.10	2.07	2.05
G122.5	1.74	1.82	1.89	1.93	1.92	1.89	1.87
G125.0	1.60	1.67	1.74	1.77	1.76	1.73	1.71
G127.5	1.49	1.56	1.61	1.65	1.63	1.59	1.58
G130.0	1.39	1.45	1.51	1.54	1.53	1.49	1.47
G132.5	1.29	1.35	1.41	1.44	1.43	1.39	1.37
G135.0	1.21	1.26	1.31	1.34	1.32	1.29	1.27
G137.5	1.13	1.18	1.23	1.26	1.24	1.20	1.18
G140.0	1.08	1.13	1.18	1.20	1.17	1.14	1.11
G142.5	1.03	1.08	1.13	1.15	1.13	1.09	1.07
G145.0	0.99	1.03	1.08	1.11	1.09	1.05	1.03
G147.5	0.95	0.99	1.04	1.06	1.05	1.01	0.99
G150.0	0.91	0.95	1.00	1.02	1.01	0.98	0.96
G152.5	0.86	0.90	0.95	0.97	0.96	0.94	0.92
G155.0	0.82	0.86	0.90	0.92	0.91	0.90	0.89
G157.5	0.78	0.81	0.84	0.86	0.86	0.85	0.84
G160.0	0.73	0.76	0.79	0.80	0.80	0.79	0.79
G162.5	0.68	0.70	0.73	0.74	0.74	0.74	0.73
G165.0	0.62	0.65	0.67	0.68	0.68	0.68	0.68
G167.5	0.57	0.60	0.61	0.62	0.62	0.62	0.61
G170.0	0.52	0.54	0.56	0.56	0.56	0.55	0.55
G172.5	0.47	0.49	0.50	0.50	0.50	0.50	0.49
G175.0	0.41	0.42	0.44	0.45	0.44	0.43	0.43
G177.5	0.37	0.37	0.38	0.38	0.37	0.37	0.37
G180.0	0.35	0.35	0.35	0.35	0.35	0.35	0.35

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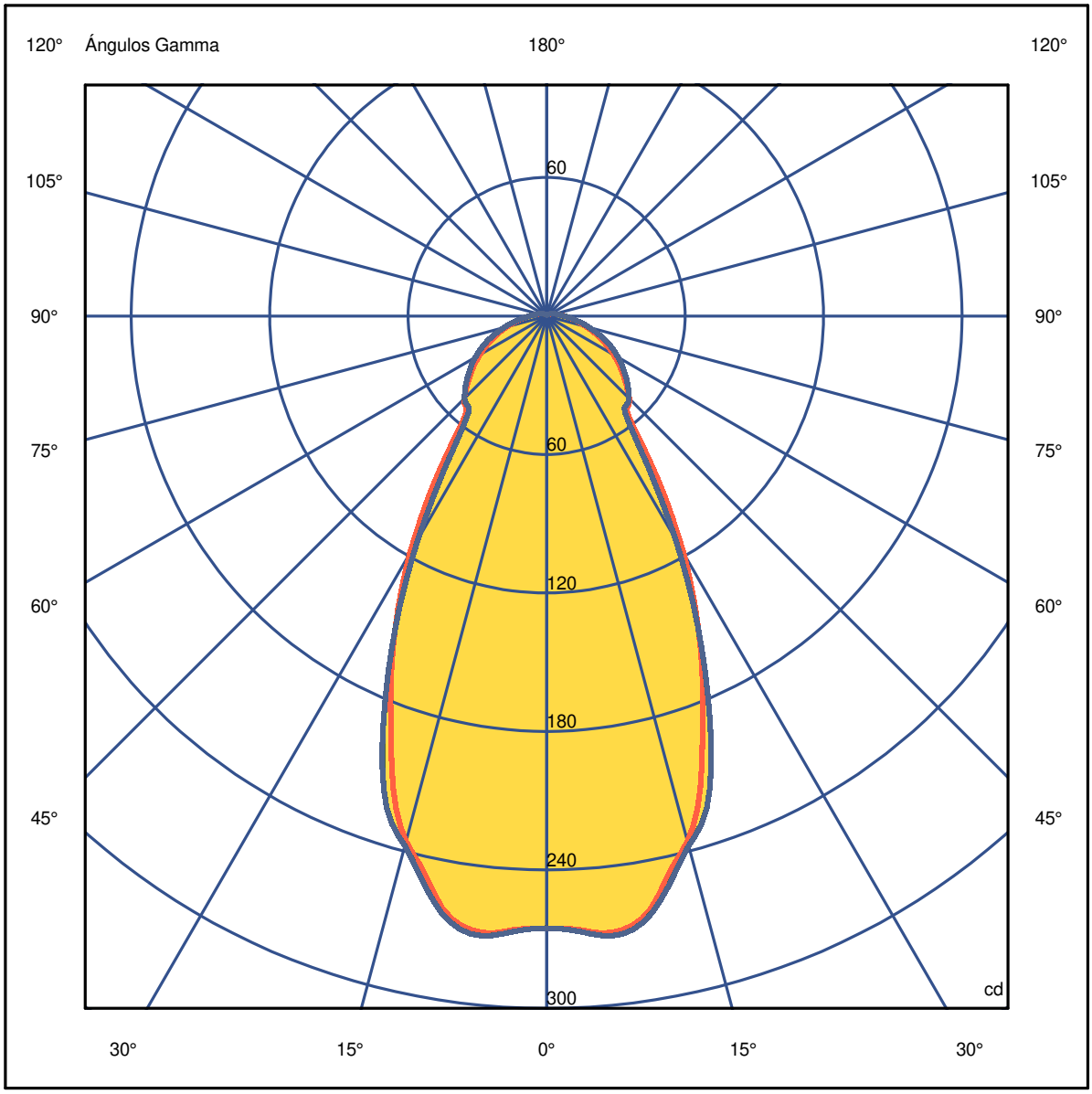
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Source Flux	363 lm	Maximum value	269.45 cd	Position	C=75.00 G=5.00	CG	Double Symmetrical

Diam=250mm



Semiplanos C

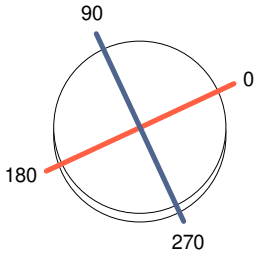




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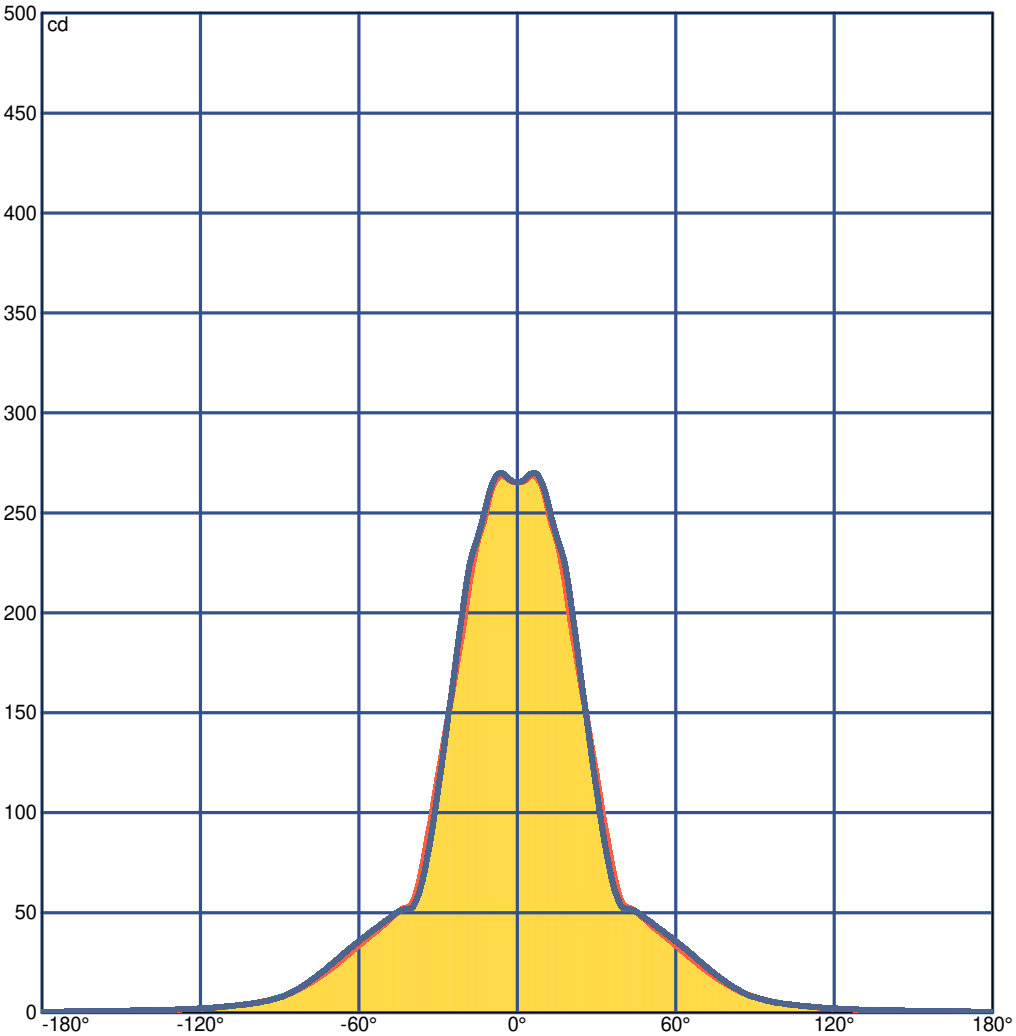
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Semiplanos C





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Source Flux	363 lm	Maximum value	269.45 cd	Position	C=75.00 G=5.00	CG	Double Symmetrical

UGR
S = 0.250

Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Working Plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions	Lateral View					Viewed Endwise				
x=2H y=2H	13.0	14.1	13.4	14.4	14.7	13.2	14.3	13.6	14.6	14.9
x=2H y=3H	14.4	15.4	14.8	15.7	16.1	14.7	15.7	15.1	16.0	16.4
x=2H y=4H	15.0	15.9	15.4	16.3	16.6	15.3	16.3	15.7	16.6	17.0
x=2H y=6H	15.5	16.3	15.9	16.7	17.1	15.8	16.7	16.3	17.1	17.5
x=2H y=8H	15.7	16.5	16.1	16.9	17.3	16.0	16.9	16.5	17.3	17.7
x=2H y=12H	15.8	16.6	16.3	17.0	17.5	16.2	17.0	16.6	17.4	17.8
x=4H y=2H	13.6	14.6	14.0	14.9	15.3	13.8	14.7	14.2	15.1	15.5
x=4H y=3H	15.2	16.0	15.6	16.4	16.8	15.5	16.3	15.9	16.7	17.1
x=4H y=4H	15.9	16.6	16.4	17.1	17.5	16.2	16.9	16.7	17.4	17.8
x=4H y=6H	16.6	17.2	17.0	17.6	18.1	16.9	17.5	17.4	18.0	18.5
x=4H y=8H	16.8	17.4	17.3	17.9	18.4	17.2	17.7	17.6	18.2	18.7
x=4H y=12H	17.1	17.6	17.6	18.1	18.6	17.4	17.9	17.9	18.4	18.9
x=8H y=4H	16.2	16.8	16.7	17.3	17.8	16.5	17.1	17.0	17.5	18.1
x=8H y=6H	17.0	17.5	17.6	18.0	18.6	17.3	17.8	17.9	18.3	18.9
x=8H y=8H	17.4	17.8	18.0	18.4	18.9	17.7	18.1	18.3	18.6	19.2
x=8H y=12H	17.8	18.1	18.3	18.7	19.3	18.0	18.4	18.6	19.0	19.5
x=12H y=4H	16.3	16.8	16.8	17.3	17.8	16.5	17.0	17.1	17.5	18.1
x=12H y=6H	17.1	17.5	17.7	18.1	18.6	17.4	17.8	18.0	18.3	18.9
x=12H y=8H	17.6	17.9	18.1	18.5	19.1	17.8	18.2	18.4	18.7	19.3

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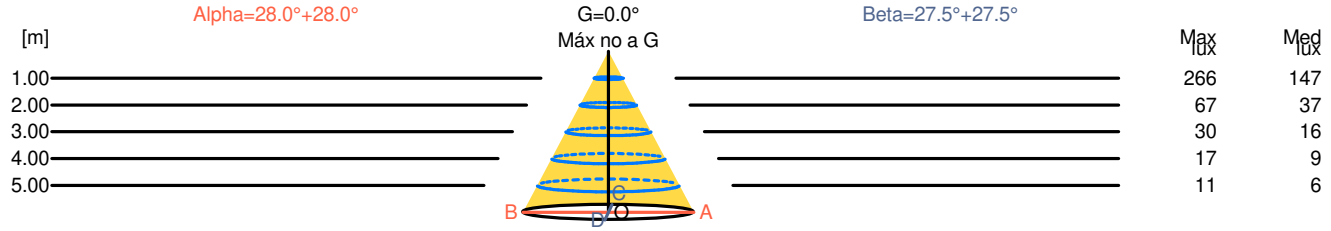
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Width at 50.00 % of Max Intensity

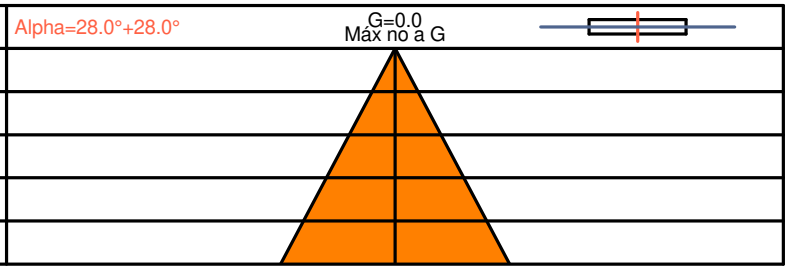
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	0.53	1.06	1.59	2.12	2.65	OC	0.52	1.04	1.56	2.09	2.61
OB	0.53	1.06	1.59	2.12	2.65	OD	0.52	1.04	1.56	2.09	2.61

Luminous Intensities [cd]

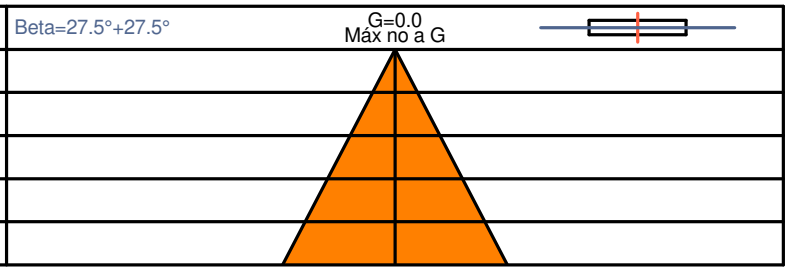
	0	5	15	25	35	45	55	65	75	85
OA	265.11	268.34	235.61	157.53	80.25	50.57	39.06	28.01	17.76	10.19
OB	265.11	268.34	235.61	157.53	80.25	50.57	39.06	28.01	17.76	10.19
OC	265.11	269.42	237.68	159.06	71.16	50.40	40.75	30.33	19.18	10.38
OD	265.11	269.42	237.68	159.06	71.16	50.40	40.75	30.33	19.18	10.38



H[m]	D[m]	Max lux	Med lux
1.00	1.06	266	147
2.00	2.12	67	37
3.00	3.18	30	16
4.00	4.25	17	9
5.00	5.31	11	6



H[m]	D[m]	Max lux	Med lux
1.00	1.04	266	147
2.00	2.09	67	37
3.00	3.13	30	16
4.00	4.17	17	9
5.00	5.21	11	6



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Flujo Total=363.00 Flujo Luminaria=363.00

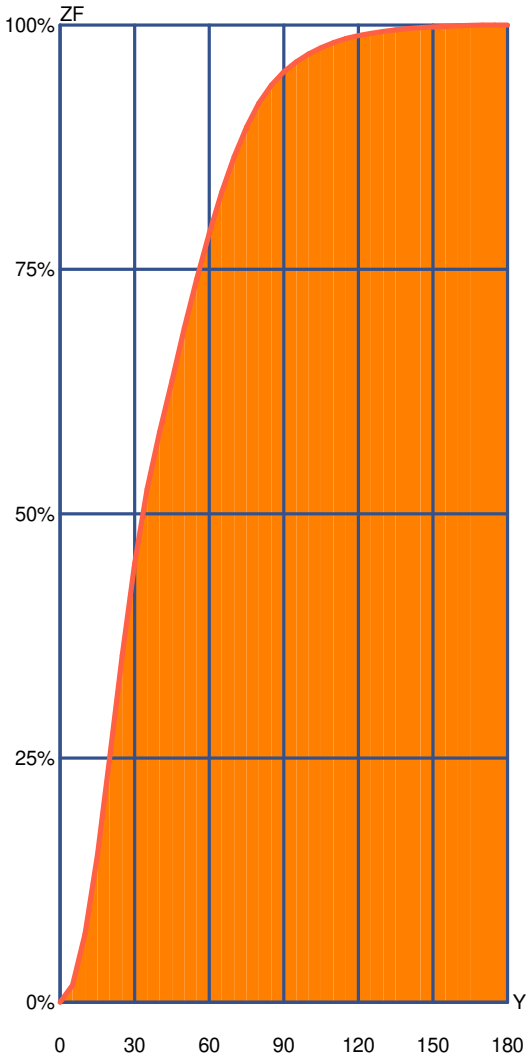
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.44	0.51	0.57	0.63	0.67	0.74	0.79	0.82	0.86	0.89	0.94	0.97
RC	3	3	3	3	3	3	3	3	3	3	3	3

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)	70	251	449	584	690	787	865	920	952	971	982	989	994	996	998	999	1000	1000

Códigos de Flujo C.I.E.
63 83 94 95 100

C.I.E.	3	LOR	100.00000 %
D DIN 5040	A51	ULOR	4.79402 %
F UTE	0.95 C + 0.05 T	DLOR	95.20598 %
B NBN	BZ 2 / 1 / BZ 3 / 4 / BZ 4	UFF	4.79402 %
RN	4.79402 %	DFF	95.20598 %
BLF	1.0	FFR	5.03542 %



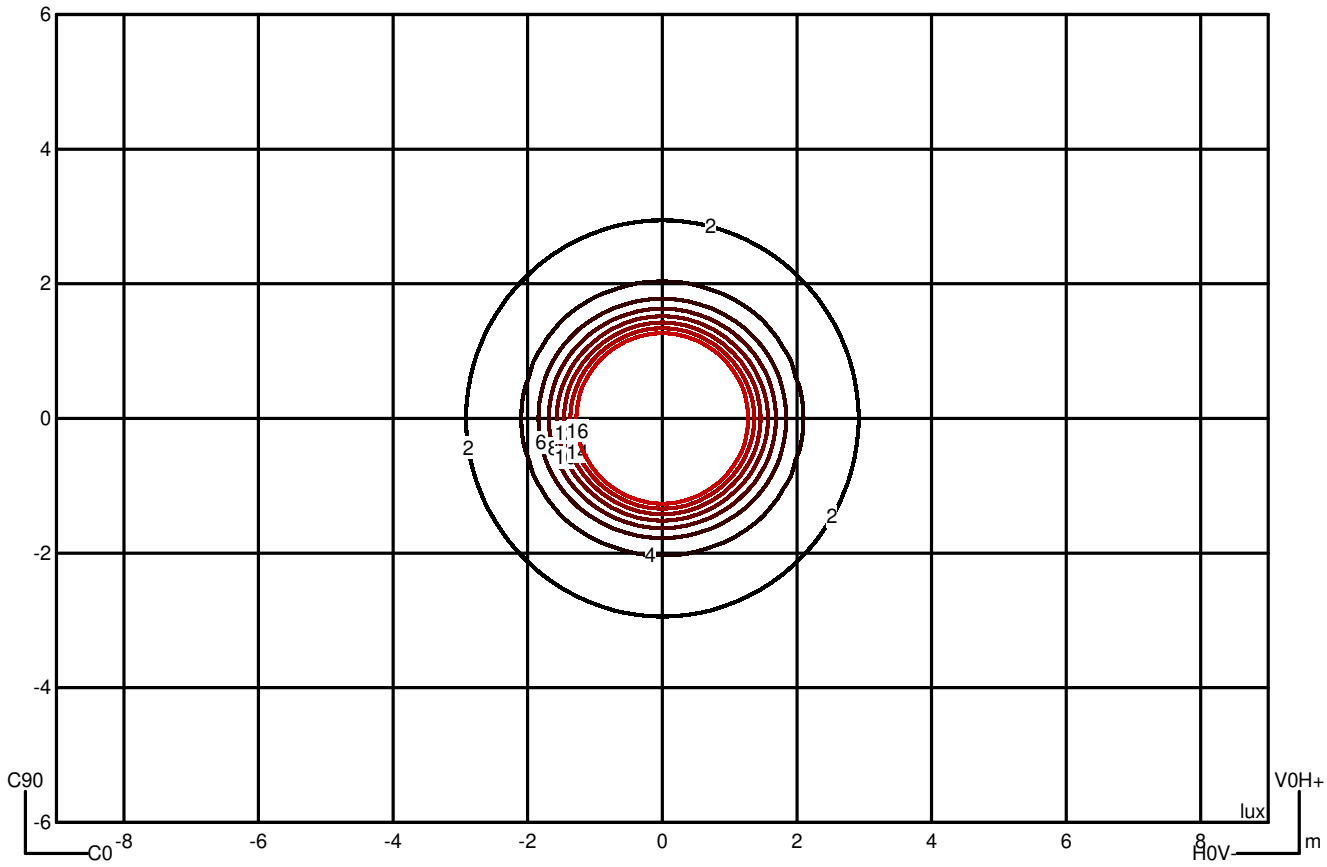
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	17.59	17.59	1.76 %	1.76 %
10°	52.55	70.14	5.26 %	7.01 %
15°	81.10	151.25	8.11 %	15.12 %
20°	99.39	250.64	9.94 %	25.06 %
25°	103.97	354.61	10.40 %	35.46 %
30°	94.51	449.12	9.45 %	44.91 %
35°	76.27	525.38	7.63 %	52.54 %
40°	58.16	583.55	5.82 %	58.35 %
45°	53.03	636.58	5.30 %	63.66 %
50°	53.20	689.78	5.32 %	68.98 %
55°	50.38	740.16	5.04 %	74.02 %
60°	46.73	786.89	4.67 %	78.69 %
65°	42.11	829.00	4.21 %	82.90 %
70°	36.50	865.50	3.65 %	86.55 %
75°	30.33	895.83	3.03 %	89.58 %
80°	24.14	919.97	2.41 %	92.00 %
85°	18.43	938.40	1.84 %	93.84 %
90°	13.66	952.06	1.37 %	95.21 %
95°	10.43	962.49	1.04 %	96.25 %
100°	8.06	970.55	0.81 %	97.05 %
105°	6.37	976.92	0.64 %	97.69 %
110°	5.15	982.07	0.52 %	98.21 %
115°	4.06	986.14	0.41 %	98.61 %
120°	3.11	989.24	0.31 %	98.92 %
125°	2.40	991.65	0.24 %	99.16 %
130°	1.92	993.57	0.19 %	99.36 %
135°	1.55	995.12	0.16 %	99.51 %
140°	1.24	996.36	0.12 %	99.64 %
145°	1.02	997.38	0.10 %	99.74 %
150°	0.83	998.21	0.08 %	99.82 %
155°	0.65	998.86	0.07 %	99.89 %
160°	0.48	999.34	0.05 %	99.93 %
165°	0.33	999.68	0.03 %	99.97 %
170°	0.20	999.88	0.02 %	99.99 %
175°	0.10	999.97	0.01 %	100.00 %
180°	0.03	1000.00	0.00 %	100.00 %

Luminaire
Code 37803327190
Name KANDO_M40_2200K_CREAM_RIBBON
Measurem.
Code CL092A24D014GP
Name KANDO_M40_2200K_CREAM_RIBBON

Luminaire Flux	363 lm	Luminaire Power	14.4 W	Efficacy	25.208 lm/W	Efficiency	100.00%
Source Flux	363 lm	Maximum value	269.45 cd	Position	C=75.00 G=5.00	CG	Double Symmetrical

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m



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Spectral Data

Std.: No import standard

CIE1931	x =0.506879	y =0.415422	Color rendering index (CRI)
CIE1960	u =0.290838	v =0.357541	Color Rendering Components
CIE1976	u'=0.290838	v'=0.536312	
D(u,v)	0.00008		
			CCT = [2189 K]*

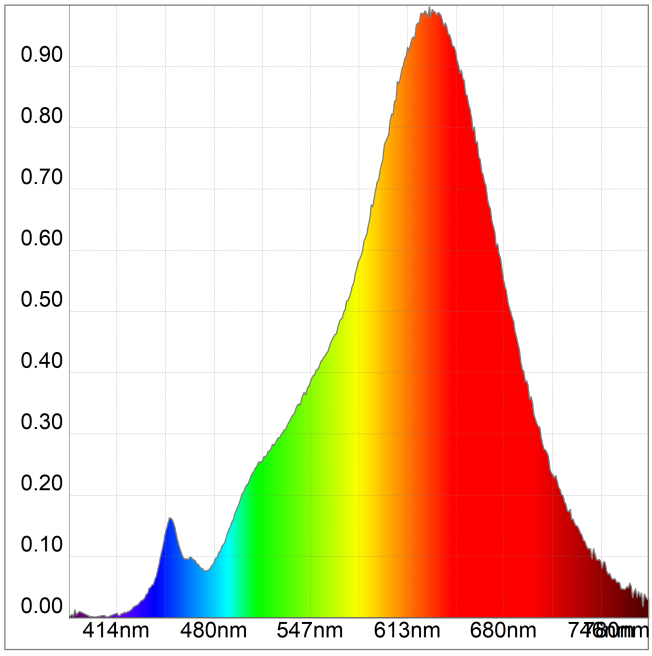
CRI8(Ra) [94.0]* CRI15(Rav) [92.4]*

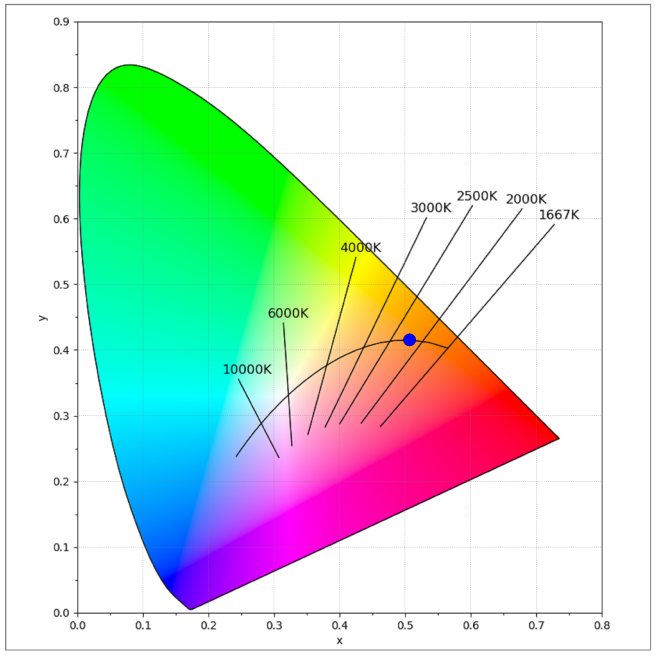
R 1: 94.8	R 2: 98.5	R 3: 99.1	R 4: 95.8	R 5: 95.6
R 6: 97.1	R 7: 90.4	R 8: 80.4	R 9: 60.6	R10: 96.0
R11: 98.7	R12: 95.4	R13: 96.1	R14: 99.0	R15: 89.1

Spectral Distribution

l(nm)	Radiant Power	l(nm)	Radiant Power	l(nm)	Radiant Power
381.0	0.001100	387.0	0.007400	393.0	0.004486
399.0	0.001120	405.0	0.003700	411.0	0.004675
417.0	0.006700	423.0	0.011900	429.0	0.022900
435.0	0.039500	441.0	0.067900	447.0	0.136000
453.0	0.154000	459.0	0.101000	465.0	0.098500
471.0	0.082700	477.0	0.077900	483.0	0.098400
489.0	0.130000	495.0	0.170000	501.0	0.205000
507.0	0.235000	513.0	0.253000	519.0	0.272000
525.0	0.294000	531.0	0.313000	537.0	0.341000
543.0	0.368000	549.0	0.395000	555.0	0.420000
561.0	0.449000	567.0	0.483000	573.0	0.518000
579.0	0.570000	585.0	0.620000	591.0	0.685000
597.0	0.749000	603.0	0.822000	609.0	0.881000
615.0	0.925000	621.0	0.971000	627.0	0.987000
633.0	0.989000	639.0	0.965000	645.0	0.932000
651.0	0.894000	657.0	0.830000	663.0	0.752000
669.0	0.684000	675.0	0.607000	681.0	0.541000
687.0	0.484000	693.0	0.405000	699.0	0.361000
705.0	0.311000	711.0	0.263000	717.0	0.223000
723.0	0.185000	729.0	0.154000	735.0	0.126000
741.0	0.096000	747.0	0.092500	753.0	0.072700
759.0	0.057800	765.0	0.050700	771.0	0.047200
777.0	0.038400				

Spectrum Graph

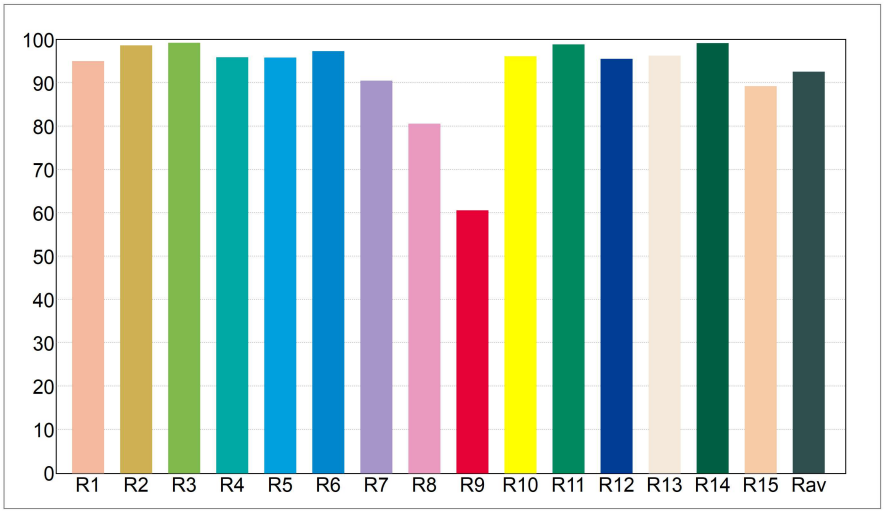


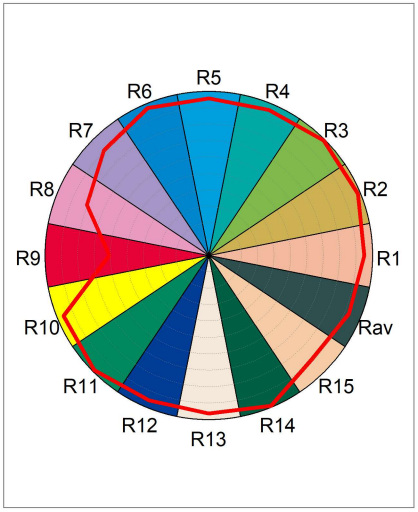


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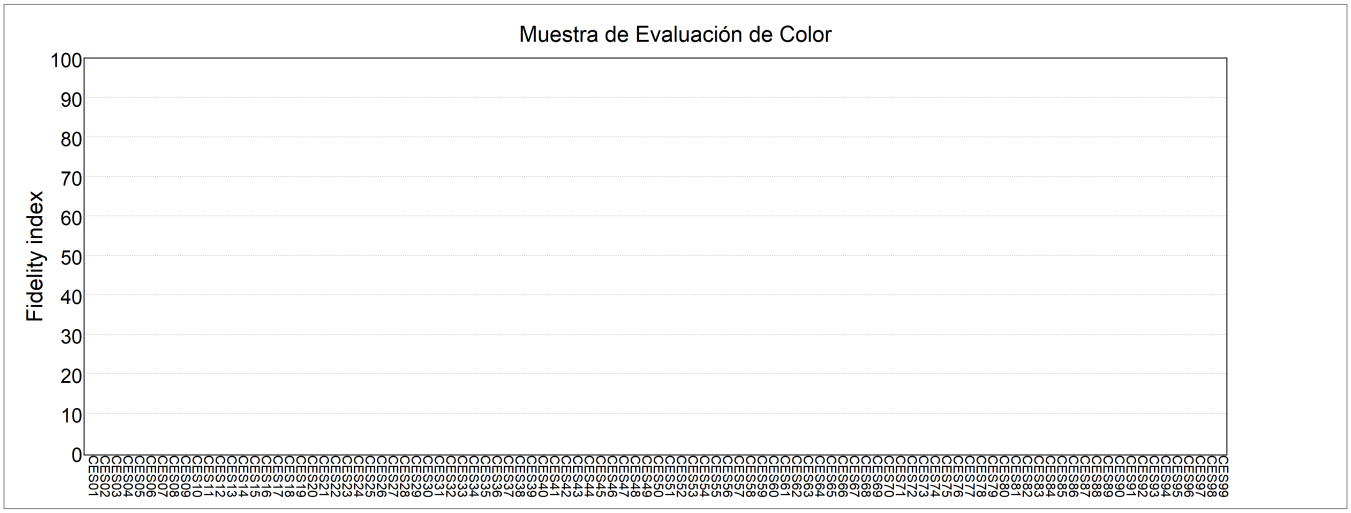
CRI Graphs



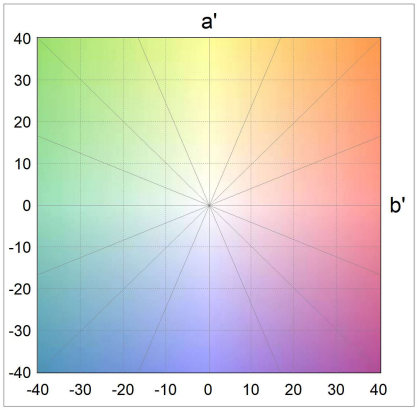


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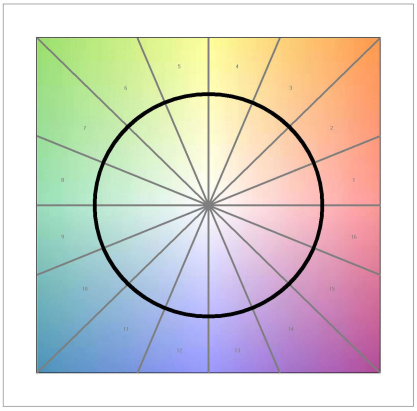
Luminaire Flux	363 lm	Luminaire Power	14.4 W	Efficacy	25.208 lm/W	Efficiency	100.00%
Source Flux	363 lm	Maximum value	269.45 cd	Position	C=75.00 G=5.00	CG	Double Symmetrical



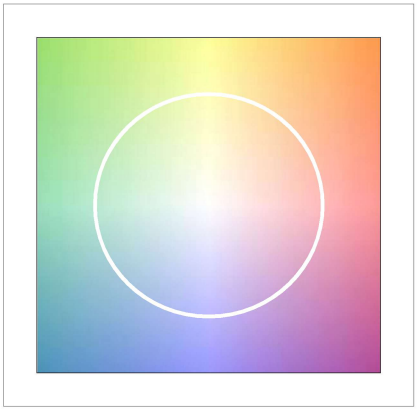
Chromatic Coordinates (a', b') 99 CES



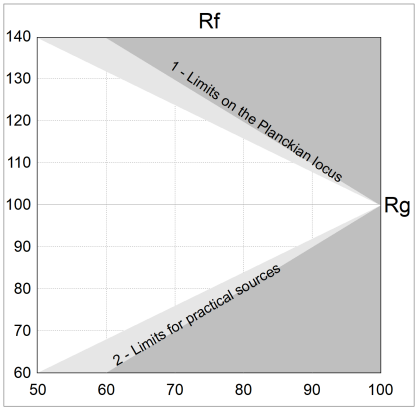
Color Vector Graphic



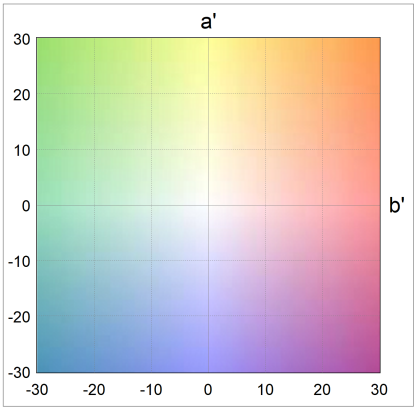
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

