Luminaire
Code 37803327190
Name KANDO_M40_2400K_CREAM_RIBBON
Measurem.
Code CL092A24D014GP
Name KANDO_M40_2400K_CREAM_RIBBON

Luminaire Flux	401 lm	Luminaire Power	14.4 W	Efficacy	27.847 lm/W	Efficiency	100.00%
Source Flux	401 lm	Maximum value	297.66 cd	Position	C=75.00 G=5.00	CG	Double Symmetrical

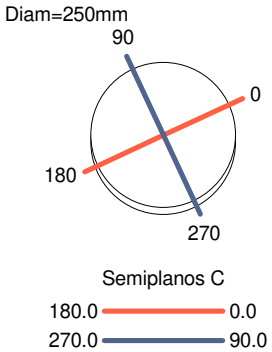
Round Luminaire	Diam. 250 mm	Height	60 mm
Round Luminous Area	Diam. 170 mm	Height	60 mm
Horizontal Luminous Area	0.022698 m2	Emitting area on Plane 180°	0.010200 m2
Emitting area on Plane 0°	0.010200 m2	Emitting area on Plane 270°	0.010200 m2
Emitting area on Plane 90°	0.010200 m2	Glare area at 76°	0.015388 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		

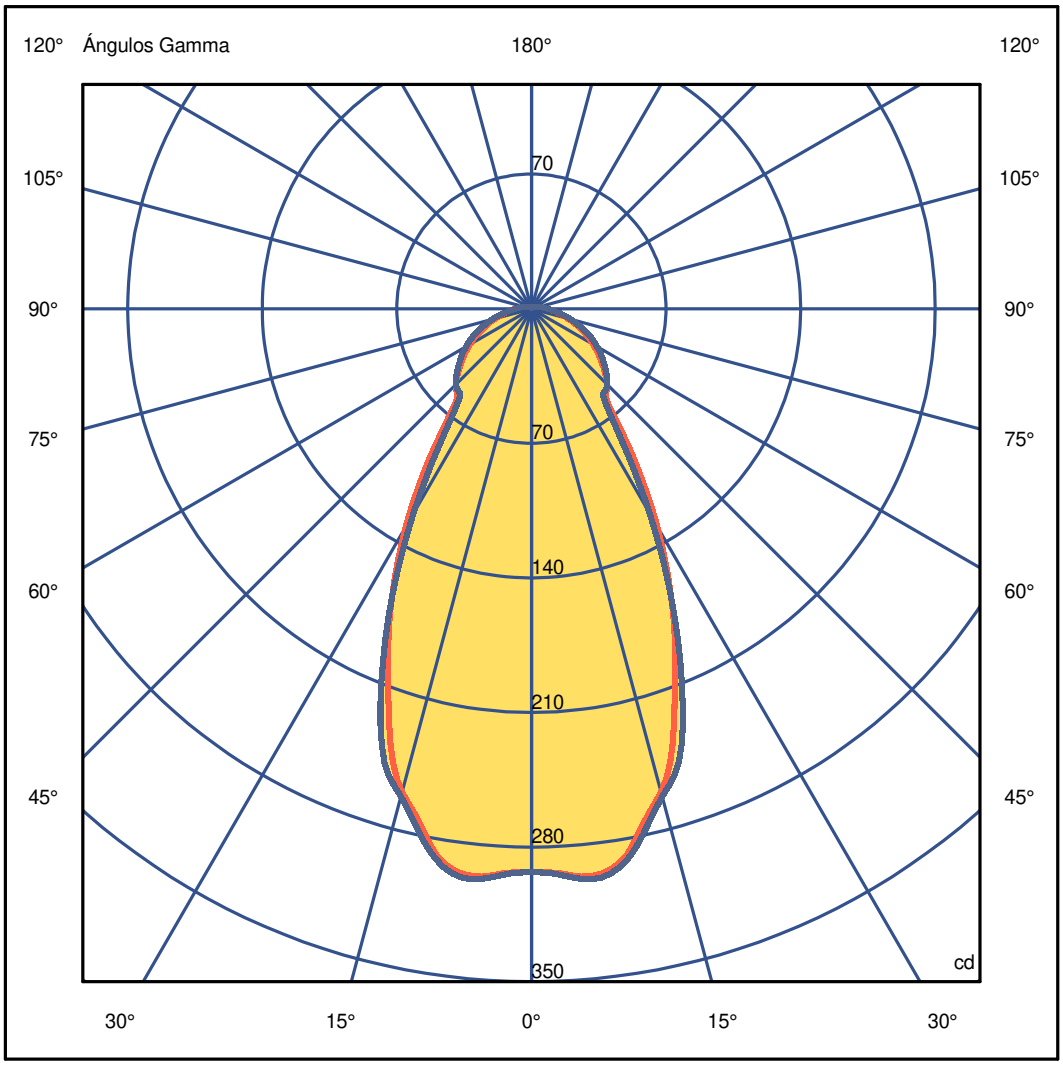
Luminaire Sources

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	JB2835BWT-G-U27EA0000 (60x)	JB2835BWT-G-U22EA0000 (60x)	401.00	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 %

Luminaire
Code 37803327190
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Code CL092A24D014GP
Name KANDO_M40_2400K_CREAM_RIBBON

Luminaire Flux	401 lm	Luminaire Power	14.4 W	Efficacy	27.847 lm/W	Efficiency	100.00%
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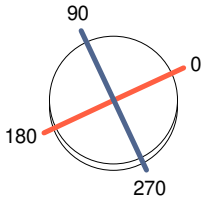
Luminous Intensity Table cd **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	292.86	292.86	292.86	292.86	292.86	292.86	292.86
G 2.5	293.53	293.36	293.60	293.94	294.14	294.21	294.21
G 5.0	296.43	296.60	297.00	297.44	297.66	297.66	297.62
G 7.5	295.36	295.85	296.25	296.56	296.95	297.28	297.42
G 10.0	287.82	288.84	289.08	289.14	289.45	289.85	290.05
G 12.5	272.36	273.95	274.77	275.25	275.73	276.14	276.31
G 15.0	260.28	259.84	259.17	259.03	259.93	261.42	262.56
G 17.5	242.34	241.04	239.97	241.10	244.36	248.26	251.13
G 20.0	217.73	218.68	219.23	220.85	224.39	228.19	229.96
G 22.5	195.37	197.19	198.58	199.88	201.30	202.50	203.00
G 25.0	174.02	175.05	175.53	175.69	175.74	175.73	175.71
G 27.5	152.23	151.74	150.42	149.16	148.64	148.64	148.74
G 30.0	130.98	129.84	127.35	124.85	123.41	122.88	122.80
G 32.5	109.05	108.18	105.73	102.88	100.63	99.23	98.75
G 35.0	88.66	88.45	86.84	84.38	81.69	79.51	78.61
G 37.5	70.45	71.19	70.89	69.60	67.16	64.96	64.66
G 40.0	59.99	59.67	59.66	59.98	58.81	57.62	57.63
G 42.5	57.88	57.36	57.38	57.87	57.34	56.73	56.99
G 45.0	55.87	56.02	56.31	56.44	55.97	55.37	55.67
G 47.5	52.56	52.54	52.70	52.89	53.03	53.10	53.12
G 50.0	49.29	49.09	49.13	49.39	49.86	50.31	50.52
G 52.5	46.03	45.73	45.69	46.02	46.72	47.44	47.78
G 55.0	43.14	42.69	42.54	42.85	43.82	44.90	45.01
G 57.5	40.15	39.69	39.52	39.86	40.92	42.08	42.29
G 60.0	37.06	36.64	36.55	36.97	38.08	39.25	39.48
G 62.5	34.01	33.73	33.76	34.22	35.27	36.35	36.55
G 65.0	30.94	30.79	30.96	31.49	32.33	33.15	33.51
G 67.5	27.90	27.88	28.18	28.74	29.45	30.06	30.33
G 70.0	24.98	25.08	25.49	26.04	26.58	27.00	27.16
G 72.5	22.21	22.36	22.80	23.32	23.76	24.05	24.15
G 75.0	19.62	19.81	20.25	20.71	21.01	21.15	21.19
G 77.5	17.22	17.43	17.84	18.23	18.42	18.47	18.46
G 80.0	15.12	15.31	15.68	15.98	16.05	15.97	15.91
G 82.5	13.05	13.25	13.57	13.79	13.78	13.64	13.56
G 85.0	11.25	11.38	11.58	11.71	11.67	11.54	11.46
G 87.5	9.70	9.82	10.01	10.11	10.00	9.81	9.71
G 90.0	8.50	8.63	8.80	8.86	8.73	8.52	8.41
G 92.5	7.45	7.58	7.74	7.78	7.64	7.44	7.34
G 95.0	6.54	6.69	6.83	6.87	6.72	6.50	6.40
G 97.5	5.79	5.93	6.06	6.09	5.94	5.74	5.64
G100.0	5.10	5.28	5.43	5.44	5.32	5.15	5.06
G102.5	4.53	4.70	4.86	4.91	4.81	4.65	4.57
G105.0	4.11	4.27	4.42	4.47	4.39	4.25	4.18
G107.5	3.75	3.90	4.03	4.08	4.01	3.90	3.84
G110.0	3.40	3.54	3.64	3.69	3.63	3.54	3.50
G112.5	3.05	3.17	3.26	3.30	3.26	3.19	3.15
G115.0	2.70	2.81	2.90	2.93	2.90	2.85	2.81
G117.5	2.42	2.52	2.59	2.62	2.58	2.52	2.49
G120.0	2.17	2.25	2.31	2.34	2.32	2.29	2.27
G122.5	1.92	2.01	2.09	2.13	2.12	2.09	2.06
G125.0	1.77	1.85	1.92	1.96	1.94	1.91	1.89
G127.5	1.65	1.72	1.78	1.82	1.80	1.76	1.74
G130.0	1.54	1.60	1.66	1.70	1.68	1.64	1.62
G132.5	1.43	1.49	1.56	1.59	1.58	1.54	1.52
G135.0	1.33	1.39	1.45	1.48	1.46	1.42	1.40
G137.5	1.25	1.31	1.36	1.39	1.37	1.32	1.30
G140.0	1.19	1.25	1.30	1.32	1.30	1.25	1.23
G142.5	1.14	1.19	1.25	1.27	1.25	1.21	1.19
G145.0	1.09	1.14	1.20	1.22	1.20	1.16	1.14
G147.5	1.05	1.10	1.15	1.18	1.16	1.12	1.09
G150.0	1.00	1.05	1.10	1.13	1.11	1.08	1.06
G152.5	0.95	1.00	1.05	1.07	1.06	1.04	1.02
G155.0	0.91	0.95	0.99	1.02	1.01	0.99	0.98
G157.5	0.86	0.89	0.93	0.95	0.95	0.93	0.93
G160.0	0.81	0.84	0.87	0.89	0.89	0.88	0.87
G162.5	0.75	0.78	0.80	0.82	0.82	0.81	0.81
G165.0	0.68	0.71	0.74	0.76	0.75	0.75	0.75
G167.5	0.63	0.66	0.68	0.69	0.69	0.68	0.68
G170.0	0.58	0.60	0.61	0.62	0.62	0.61	0.60
G172.5	0.52	0.54	0.55	0.56	0.56	0.55	0.55
G175.0	0.45	0.47	0.49	0.49	0.49	0.48	0.48
G177.5	0.41	0.41	0.41	0.42	0.41	0.41	0.41
G180.0	0.39	0.39	0.39	0.39	0.39	0.39	0.39

Luminaire
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Measurem.
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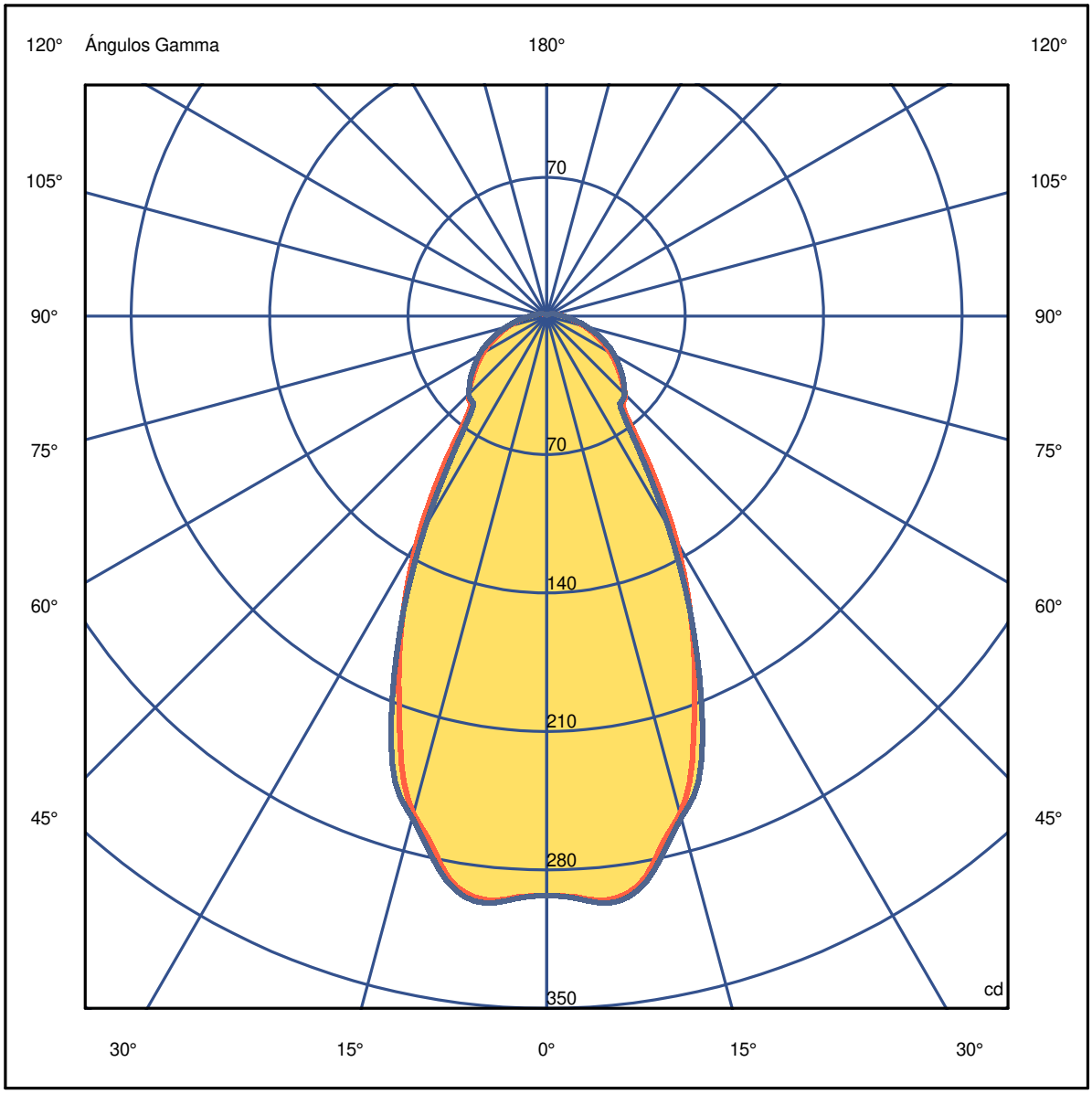
Luminaire Flux	401 lm	Luminaire Power	14.4 W	Efficacy	27.847 lm/W	Efficiency	100.00%
Source Flux	401 lm	Maximum value	297.66 cd	Position	C=75.00 G=5.00	CG	Double Symmetrical

Diam=250mm



Semiplanos C

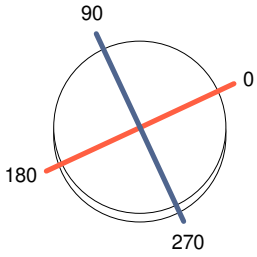
180.0 0.0
270.0 90.0



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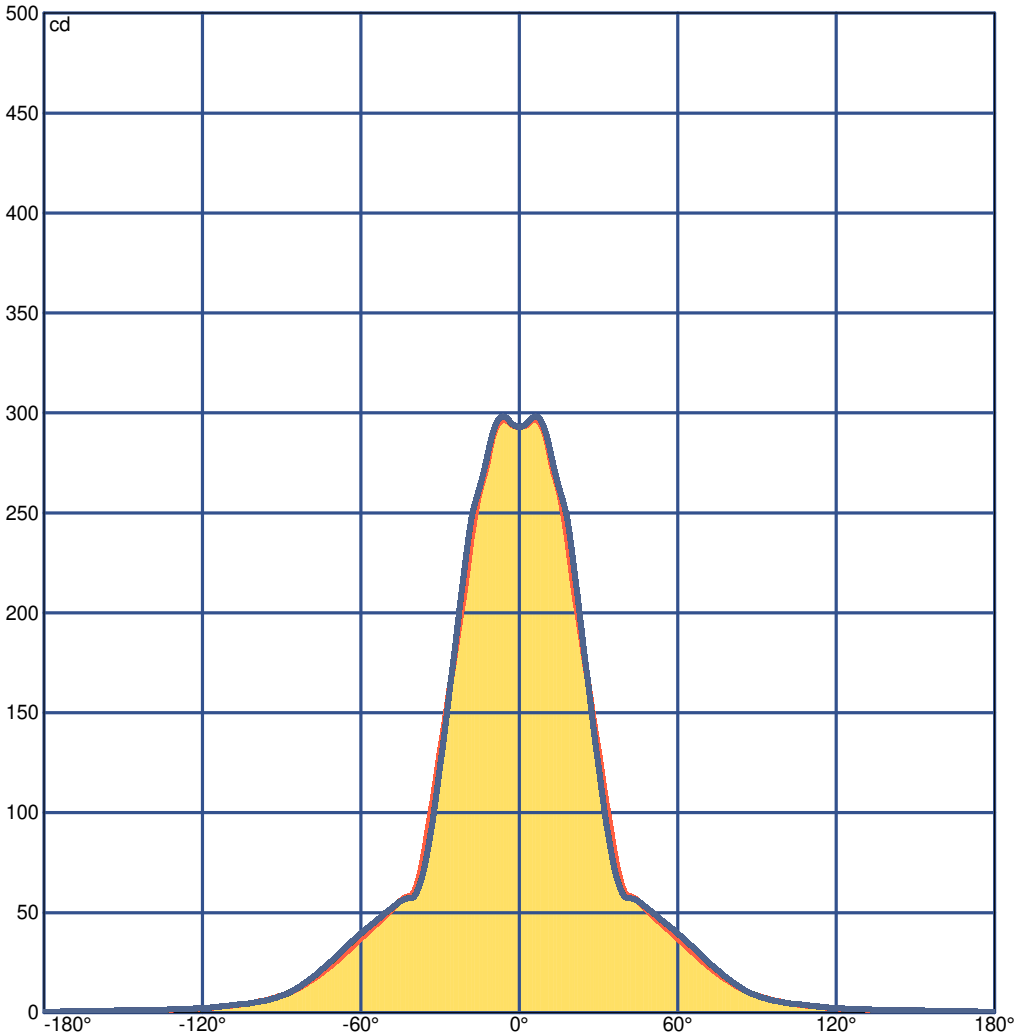
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Source Flux	401 lm	Maximum value	297.66 cd	Position	C=75.00 G=5.00	CG	Double Symmetrical

Diam=250mm



Semiplanos C





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Source Flux	401 lm	Maximum value	297.66 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	13.4	14.5	13.7	14.7	15.1	13.6	14.7	13.9	15.0	15.3
x=2H y=3H	14.7	15.7	15.1	16.1	16.4	15.1	16.0	15.4	16.4	16.7
x=2H y=4H	15.3	16.3	15.7	16.6	17.0	15.7	16.6	16.1	17.0	17.3
x=2H y=6H	15.8	16.7	16.2	17.0	17.4	16.2	17.0	16.6	17.4	17.8
x=2H y=8H	16.0	16.9	16.5	17.2	17.6	16.4	17.2	16.8	17.6	18.0
x=2H y=12H	16.2	17.0	16.6	17.4	17.8	16.5	17.3	17.0	17.7	18.2
x=4H y=2H	14.0	14.9	14.4	15.3	15.6	14.1	15.1	14.6	15.4	15.8
x=4H y=3H	15.5	16.3	16.0	16.7	17.2	15.8	16.6	16.3	17.0	17.5
x=4H y=4H	16.3	17.0	16.7	17.4	17.9	16.6	17.3	17.1	17.7	18.2
x=4H y=6H	16.9	17.5	17.4	18.0	18.5	17.2	17.8	17.7	18.3	18.8
x=4H y=8H	17.2	17.7	17.7	18.2	18.7	17.5	18.1	18.0	18.5	19.0
x=4H y=12H	17.4	17.9	17.9	18.4	18.9	17.7	18.2	18.2	18.7	19.3
x=8H y=4H	16.6	17.1	17.1	17.6	18.1	16.9	17.4	17.4	17.9	18.4
x=8H y=6H	17.4	17.9	17.9	18.4	18.9	17.7	18.1	18.2	18.7	19.2
x=8H y=8H	17.8	18.2	18.3	18.7	19.3	18.0	18.5	18.6	19.0	19.6
x=8H y=12H	18.1	18.5	18.7	19.0	19.6	18.4	18.7	19.0	19.3	19.9
x=12H y=4H	16.6	17.1	17.1	17.6	18.1	16.9	17.4	17.4	17.9	18.4
x=12H y=6H	17.5	17.9	18.0	18.4	19.0	17.8	18.2	18.3	18.7	19.3
x=12H y=8H	17.9	18.3	18.5	18.8	19.4	18.2	18.5	18.7	19.1	19.7

Luminaire
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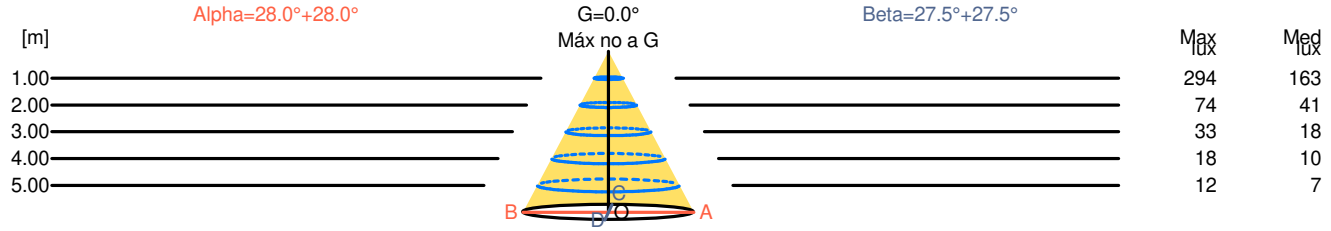
Luminaire Flux	401 lm	Luminaire Power	14.4 W	Efficacy	27.847 lm/W	Efficiency	100.00%
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Width at 50.00 % of Max Intensity

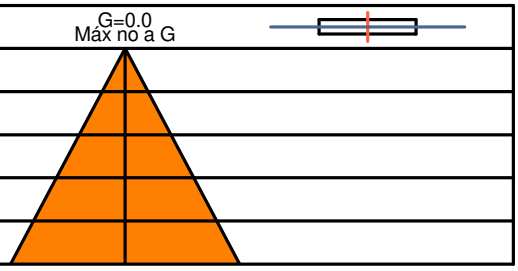
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	0.53	1.06	1.59	2.12	2.65	OC	0.52	1.04	1.56	2.09	2.61
OB	0.53	1.06	1.59	2.12	2.65	OD	0.52	1.04	1.56	2.09	2.61

Luminous Intensities [cd]

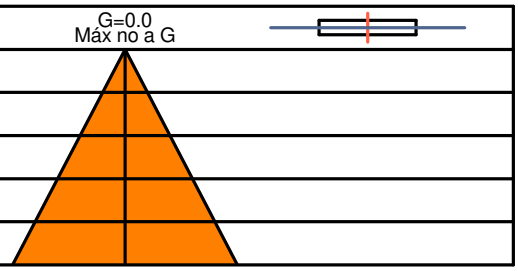
	0	5	15	25	35	45	55	65	75	85
OA	292.86	296.43	260.28	174.02	88.66	55.87	43.14	30.94	19.62	11.25
OB	292.86	296.43	260.28	174.02	88.66	55.87	43.14	30.94	19.62	11.25
OC	292.86	297.62	262.56	175.71	78.61	55.67	45.01	33.51	21.19	11.46
OD	292.86	297.62	262.56	175.71	78.61	55.67	45.01	33.51	21.19	11.46



H[m]	D[m]	Max lux	Med lux	Alpha=28.0°+28.0°
1.00	1.06	294	163	
2.00	2.12	74	41	
3.00	3.18	33	18	
4.00	4.25	18	10	
5.00	5.31	12	7	



H[m]	D[m]	Max lux	Med lux	Beta=27.5°+27.5°
1.00	1.04	294	163	
2.00	2.09	74	41	
3.00	3.13	33	18	
4.00	4.17	18	10	
5.00	5.21	12	7	



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Flujo Total=401.00 Flujo Luminaria=401.00

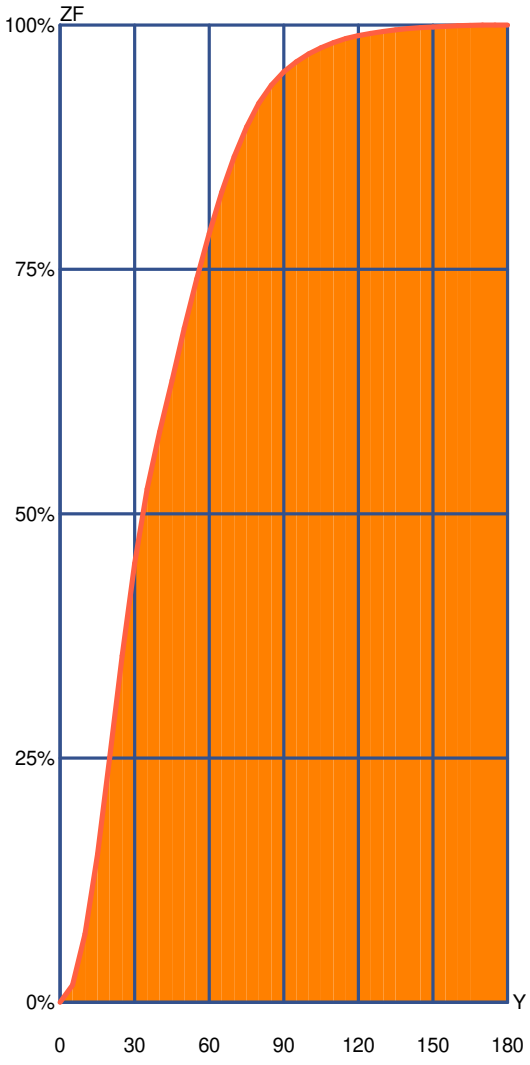
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.44	0.51	0.57	0.63	0.67	0.74	0.79	0.82	0.86	0.89	0.94	0.97
RC	3	3	3	3	3	3	3	3	3	3	3	3

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 %



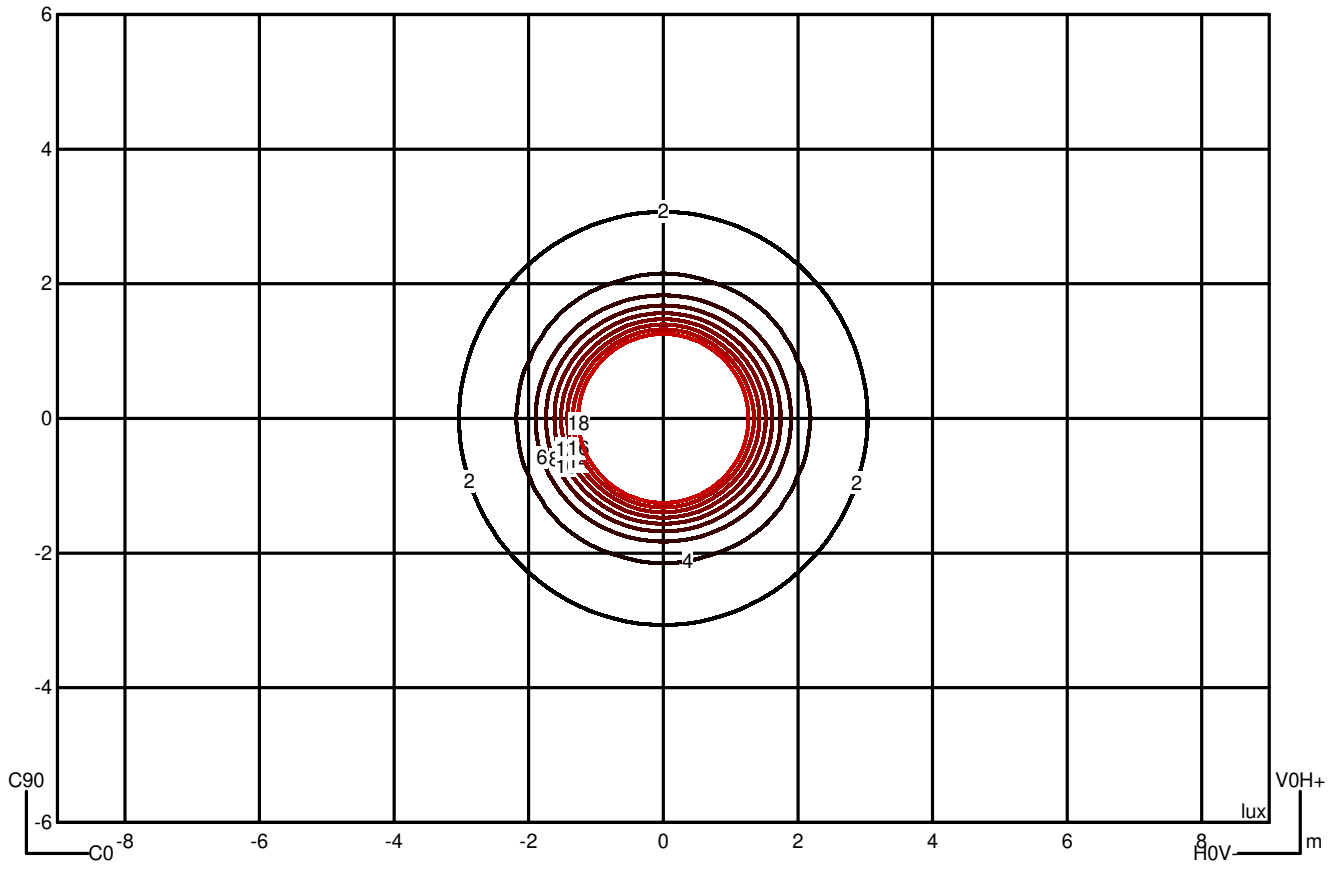
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	17.59	17.59	1.76 %	1.76 %
10°	52.55	70.14	5.26 %	7.01 %
15°	81.10	151.25	8.11 %	15.12 %
20°	99.39	250.64	9.94 %	25.06 %
25°	103.97	354.61	10.40 %	35.46 %
30°	94.51	449.12	9.45 %	44.91 %
35°	76.27	525.38	7.63 %	52.54 %
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_2400K_CREAM_RIBBON
Measurem.
Code CL092A24D014GP
Name KANDO_M40_2400K_CREAM_RIBBON

Luminaire Flux	401 lm	Luminaire Power	14.4 W	Efficacy	27.847 lm/W	Efficiency	100.00%
Source Flux	401 lm	Maximum value	297.66 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 =0.482801	y =0.411691
CIE1960	u =0.276887	v =0.354159
CIE1976	u'=0.276887	v'=0.531238
D(u,v)	0.00091	

Color rendering index (CRI)
Color Rendering Components

CCT = [2417 K]*

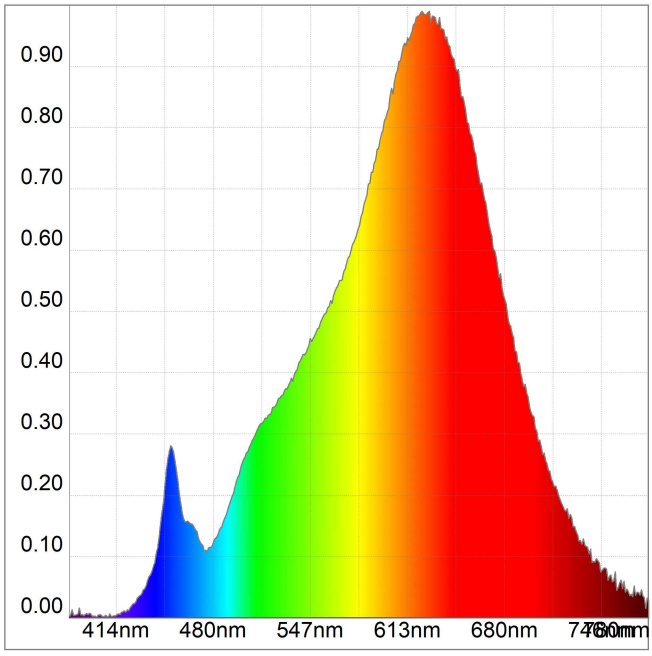
CRI8(Ra) [93.9]* CRI15(Rav) [92.1]*

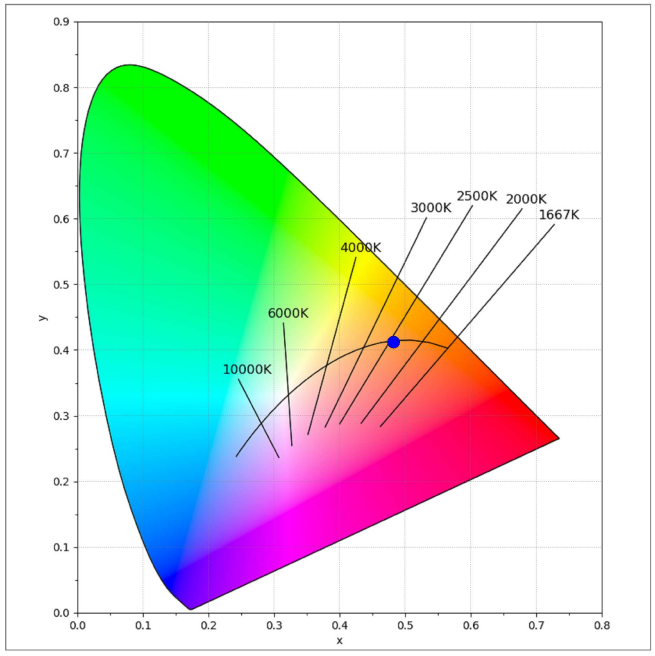
R 1: 94.7	R 2: 98.1	R 3: 98.9	R 4: 94.9	R 5: 95.2
R 6: 97.4	R 7: 90.7	R 8: 81.1	R 9: 61.1	R10: 95.2
R11: 97.3	R12: 91.6	R13: 95.8	R14: 99.1	R15: 89.7

Spectral Distribution

l(nm)	Radiant Power	l(nm)	Radiant Power	l(nm)	Radiant Power
381.0	0.001000	387.0	0.005600	393.0	0.007000
399.0	0.002400	405.0	0.001200	411.0	0.002500
417.0	0.008800	423.0	0.016500	429.0	0.034800
435.0	0.061100	441.0	0.106000	447.0	0.218000
453.0	0.269000	459.0	0.169000	465.0	0.153000
471.0	0.124000	477.0	0.114000	483.0	0.133000
489.0	0.167000	495.0	0.212000	501.0	0.258000
507.0	0.289000	513.0	0.317000	519.0	0.332000
525.0	0.358000	531.0	0.373000	537.0	0.402000
543.0	0.429000	549.0	0.456000	555.0	0.487000
561.0	0.518000	567.0	0.550000	573.0	0.587000
579.0	0.626000	585.0	0.682000	591.0	0.742000
597.0	0.795000	603.0	0.864000	609.0	0.908000
615.0	0.942000	621.0	0.982000	627.0	0.985000
633.0	0.980000	639.0	0.959000	645.0	0.914000
651.0	0.850000	657.0	0.791000	663.0	0.723000
669.0	0.659000	675.0	0.589000	681.0	0.519000
687.0	0.457000	693.0	0.387000	699.0	0.335000
705.0	0.290000	711.0	0.240000	717.0	0.208000
723.0	0.174000	729.0	0.149000	735.0	0.129000
741.0	0.090000	747.0	0.074500	753.0	0.067800
759.0	0.049400	765.0	0.046600	771.0	0.036600
777.0	0.032600				

Spectrum Graph

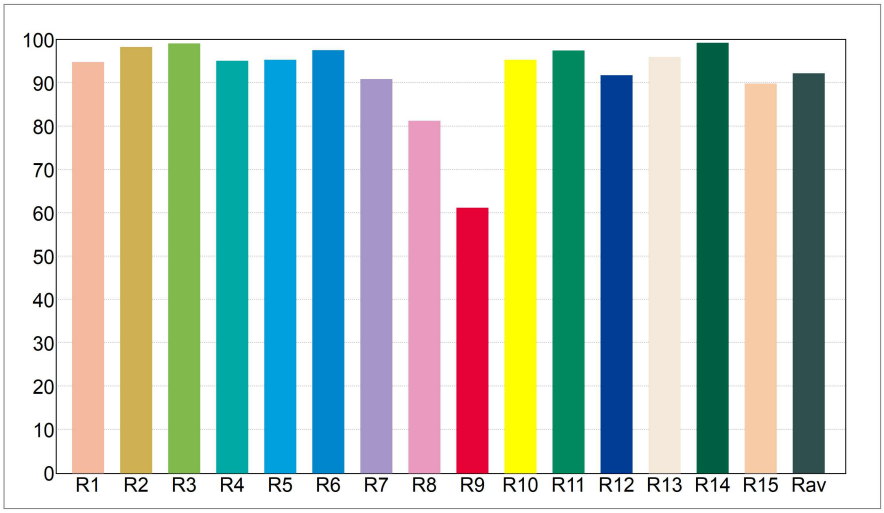


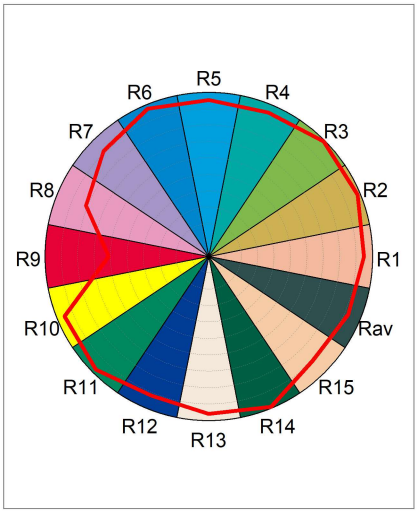


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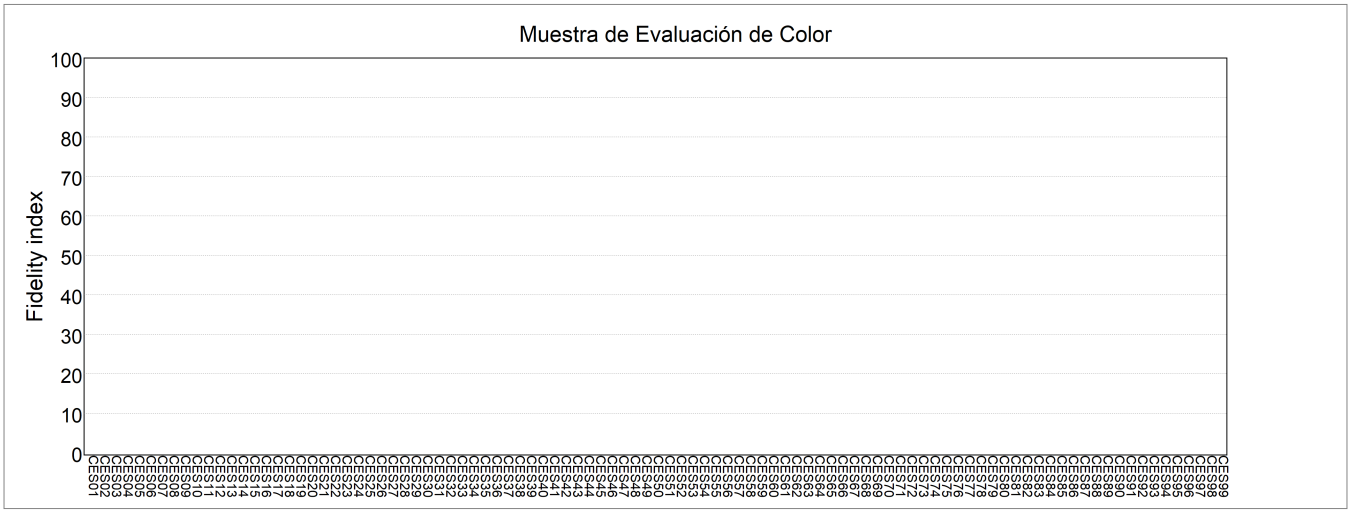
CRI Graphs



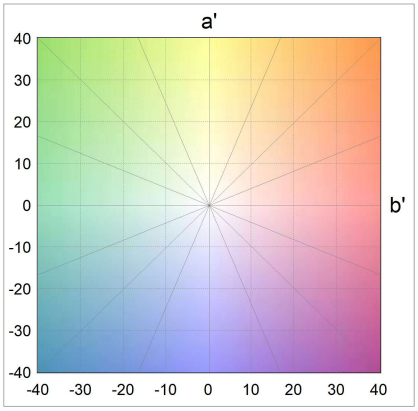


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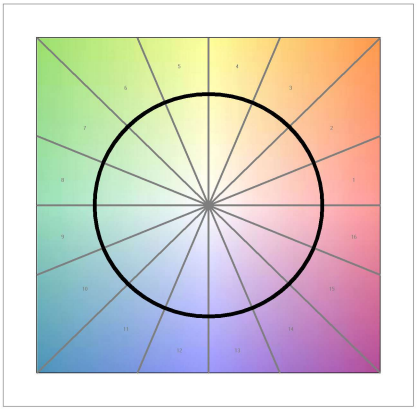
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Source Flux	401 lm	Maximum value	297.66 cd	Position	C=75.00 G=5.00	CG	Double Symmetrical



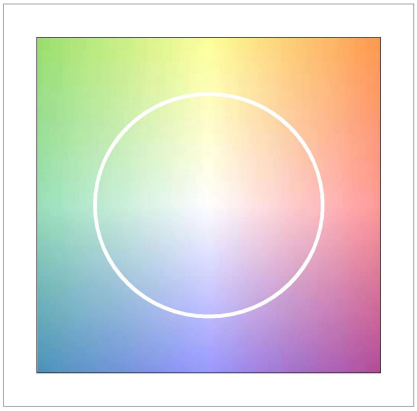
Chromatic Coordinates (a', b') 99 CES



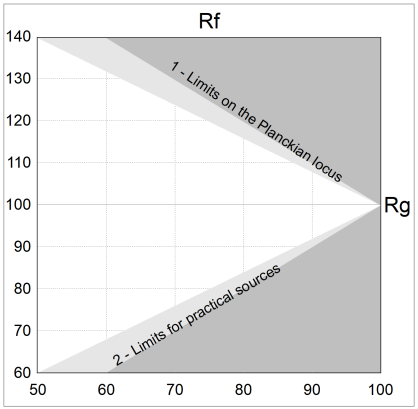
Color Vector Graphic



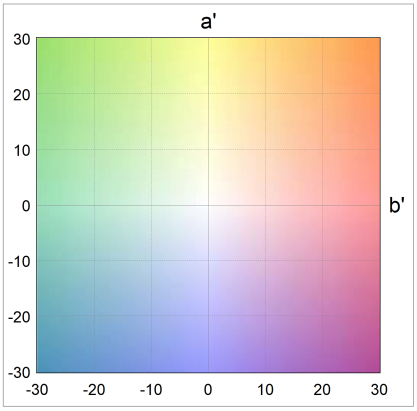
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

