Luminaire
Code 37803327190
Name KANDO_M40_2700K_CREAM_RIBBON
Measurem.
Code CL092A24D014GP
Name KANDO_M40_2700K_CREAM_RIBBON

Luminaire Flux	417 lm	Luminaire Power	14.4 W	Efficacy	28.958 lm/W	Efficiency	100.00%
Source Flux	417 lm	Maximum value	309.54 cd	Position	C=75.00 G=5.00	CG	Double Symmetrical

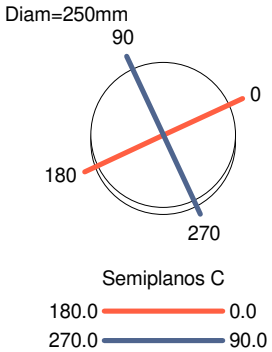
Round Luminaire	Diam.	250 mm	Height	60 mm	
Round Luminous Area	Diam.	170 mm	Height	60 mm	
Horizontal Luminous Area	0.022698 m2		Emitting area on Plane 180°		0.010200 m2
Emitting area on Plane 0°	0.010200 m2		Emitting area on Plane 270°		0.010200 m2
Emitting area on Plane 90°	0.010200 m2		Glare area at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

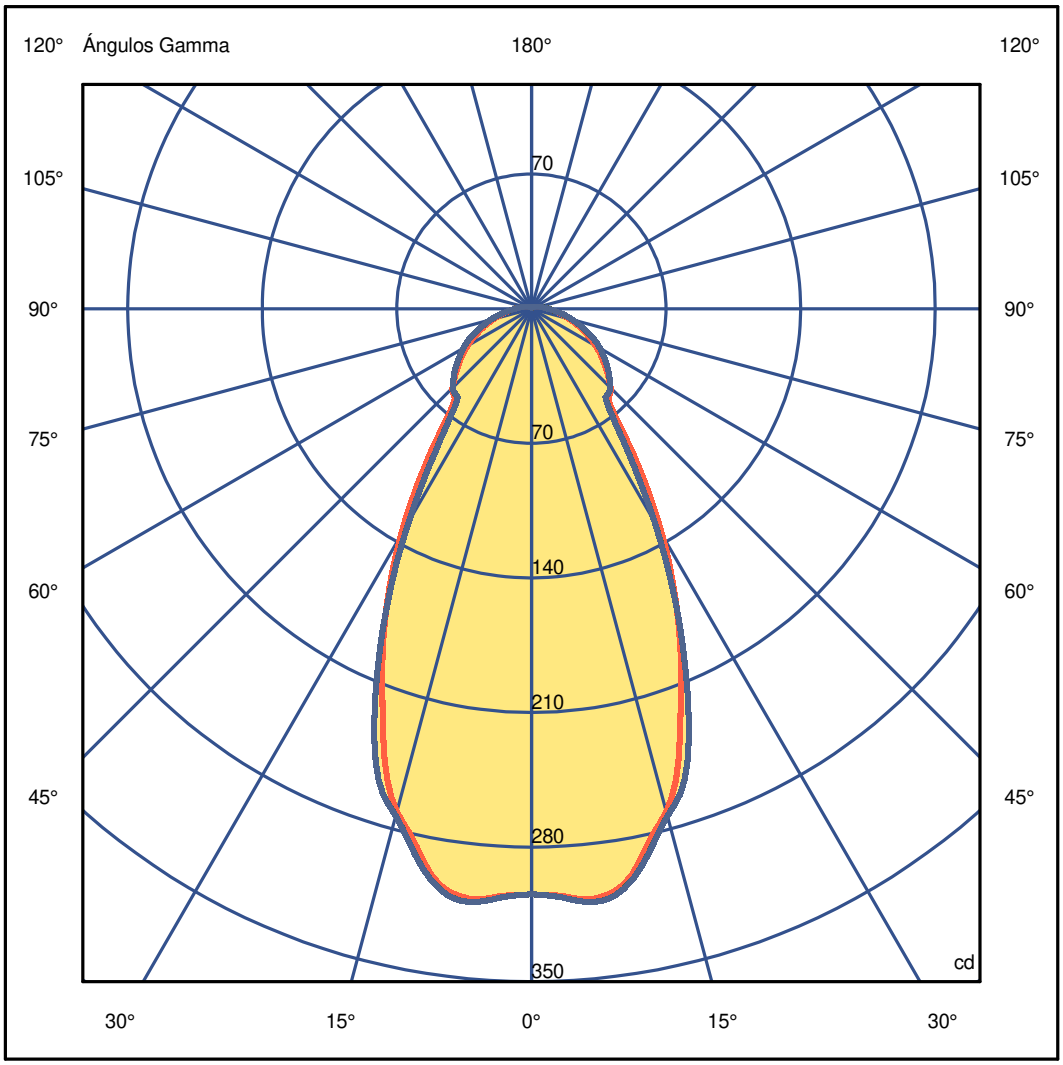
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	JB2835BWT-G-U27EA0000 (60x)	JB2835BWT-G-U22EA0000 (60x)	417.00	14.40	1

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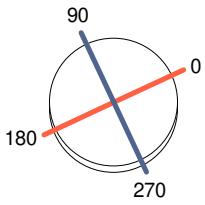
Luminous Intensity Table cd **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	304.55	304.55	304.55	304.55	304.55	304.55	304.55
G 2.5	305.24	305.06	305.31	305.67	305.87	305.95	305.95
G 5.0	308.26	308.44	308.85	309.31	309.53	309.54	309.50
G 7.5	307.15	307.65	308.07	308.39	308.80	309.15	309.29
G 10.0	299.30	300.36	300.62	300.68	300.99	301.41	301.62
G 12.5	283.23	284.88	285.73	286.23	286.73	287.15	287.33
G 15.0	270.67	270.21	269.51	269.37	270.30	271.85	273.03
G 17.5	252.01	250.66	249.55	250.72	254.11	258.17	261.15
G 20.0	226.42	227.41	227.97	229.66	233.34	237.29	239.14
G 22.5	203.16	205.06	206.50	207.86	209.33	210.58	211.10
G 25.0	180.96	182.03	182.53	182.70	182.75	182.74	182.73
G 27.5	158.31	157.80	156.42	155.11	154.57	154.57	154.67
G 30.0	136.21	135.02	132.43	129.83	128.34	127.78	127.70
G 32.5	113.40	112.49	109.94	106.98	104.65	103.19	102.69
G 35.0	92.19	91.98	90.30	87.75	84.95	82.68	81.75
G 37.5	73.26	74.03	73.72	72.37	69.84	67.55	67.24
G 40.0	62.39	62.05	62.04	62.38	61.16	59.92	59.93
G 42.5	60.19	59.65	59.67	60.17	59.62	58.99	59.26
G 45.0	58.10	58.25	58.55	58.69	58.20	57.58	57.89
G 47.5	54.66	54.64	54.80	55.00	55.15	55.22	55.24
G 50.0	51.26	51.05	51.09	51.36	51.85	52.32	52.53
G 52.5	47.87	47.55	47.52	47.86	48.58	49.34	49.69
G 55.0	44.87	44.40	44.24	44.56	45.57	46.69	46.81
G 57.5	41.75	41.27	41.09	41.45	42.55	43.76	43.97
G 60.0	38.54	38.11	38.01	38.44	39.59	40.82	41.06
G 62.5	35.37	35.07	35.10	35.59	36.68	37.80	38.01
G 65.0	32.17	32.02	32.20	32.75	33.62	34.47	34.85
G 67.5	29.01	28.99	29.31	29.89	30.62	31.26	31.54
G 70.0	25.98	26.08	26.51	27.08	27.64	28.07	28.25
G 72.5	23.09	23.25	23.71	24.25	24.70	25.01	25.12
G 75.0	20.41	20.60	21.06	21.54	21.85	22.00	22.03
G 77.5	17.91	18.12	18.55	18.96	19.16	19.20	19.20
G 80.0	15.73	15.93	16.31	16.62	16.69	16.61	16.55
G 82.5	13.57	13.78	14.11	14.34	14.33	14.19	14.10
G 85.0	11.70	11.83	12.05	12.18	12.13	12.00	11.92
G 87.5	10.09	10.21	10.41	10.51	10.40	10.20	10.10
G 90.0	8.84	8.97	9.15	9.22	9.07	8.86	8.74
G 92.5	7.75	7.89	8.05	8.09	7.95	7.74	7.63
G 95.0	6.81	6.96	7.11	7.14	6.98	6.76	6.65
G 97.5	6.02	6.17	6.30	6.33	6.18	5.97	5.86
G100.0	5.30	5.49	5.65	5.66	5.53	5.35	5.26
G102.5	4.71	4.89	5.06	5.11	5.00	4.84	4.75
G105.0	4.27	4.44	4.59	4.65	4.56	4.42	4.35
G107.5	3.90	4.05	4.19	4.24	4.17	4.06	4.00
G110.0	3.54	3.68	3.79	3.83	3.78	3.69	3.64
G112.5	3.18	3.30	3.39	3.43	3.39	3.31	3.27
G115.0	2.81	2.93	3.02	3.05	3.02	2.96	2.93
G117.5	2.51	2.62	2.69	2.72	2.68	2.62	2.59
G120.0	2.25	2.34	2.41	2.44	2.42	2.38	2.36
G122.5	2.00	2.09	2.17	2.22	2.21	2.17	2.15
G125.0	1.84	1.92	2.00	2.03	2.02	1.98	1.97
G127.5	1.72	1.79	1.85	1.89	1.87	1.83	1.81
G130.0	1.60	1.67	1.73	1.77	1.75	1.71	1.69
G132.5	1.48	1.55	1.62	1.66	1.64	1.60	1.58
G135.0	1.39	1.45	1.51	1.53	1.52	1.48	1.46
G137.5	1.30	1.36	1.42	1.44	1.42	1.38	1.35
G140.0	1.24	1.30	1.35	1.37	1.35	1.30	1.28
G142.5	1.18	1.24	1.30	1.32	1.30	1.26	1.23
G145.0	1.13	1.19	1.24	1.27	1.25	1.21	1.19
G147.5	1.09	1.14	1.20	1.22	1.20	1.16	1.14
G150.0	1.04	1.09	1.14	1.17	1.16	1.12	1.10
G152.5	0.99	1.04	1.09	1.12	1.11	1.08	1.06
G155.0	0.95	0.99	1.03	1.06	1.05	1.03	1.02
G157.5	0.89	0.93	0.97	0.99	0.99	0.97	0.96
G160.0	0.84	0.87	0.90	0.92	0.92	0.91	0.91
G162.5	0.78	0.81	0.84	0.85	0.85	0.85	0.84
G165.0	0.71	0.74	0.77	0.79	0.78	0.78	0.78
G167.5	0.66	0.69	0.71	0.72	0.71	0.71	0.71
G170.0	0.60	0.62	0.64	0.65	0.64	0.63	0.63
G172.5	0.54	0.56	0.57	0.58	0.58	0.57	0.57
G175.0	0.47	0.49	0.51	0.51	0.51	0.50	0.50
G177.5	0.42	0.43	0.43	0.43	0.43	0.43	0.43
G180.0	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Luminaire
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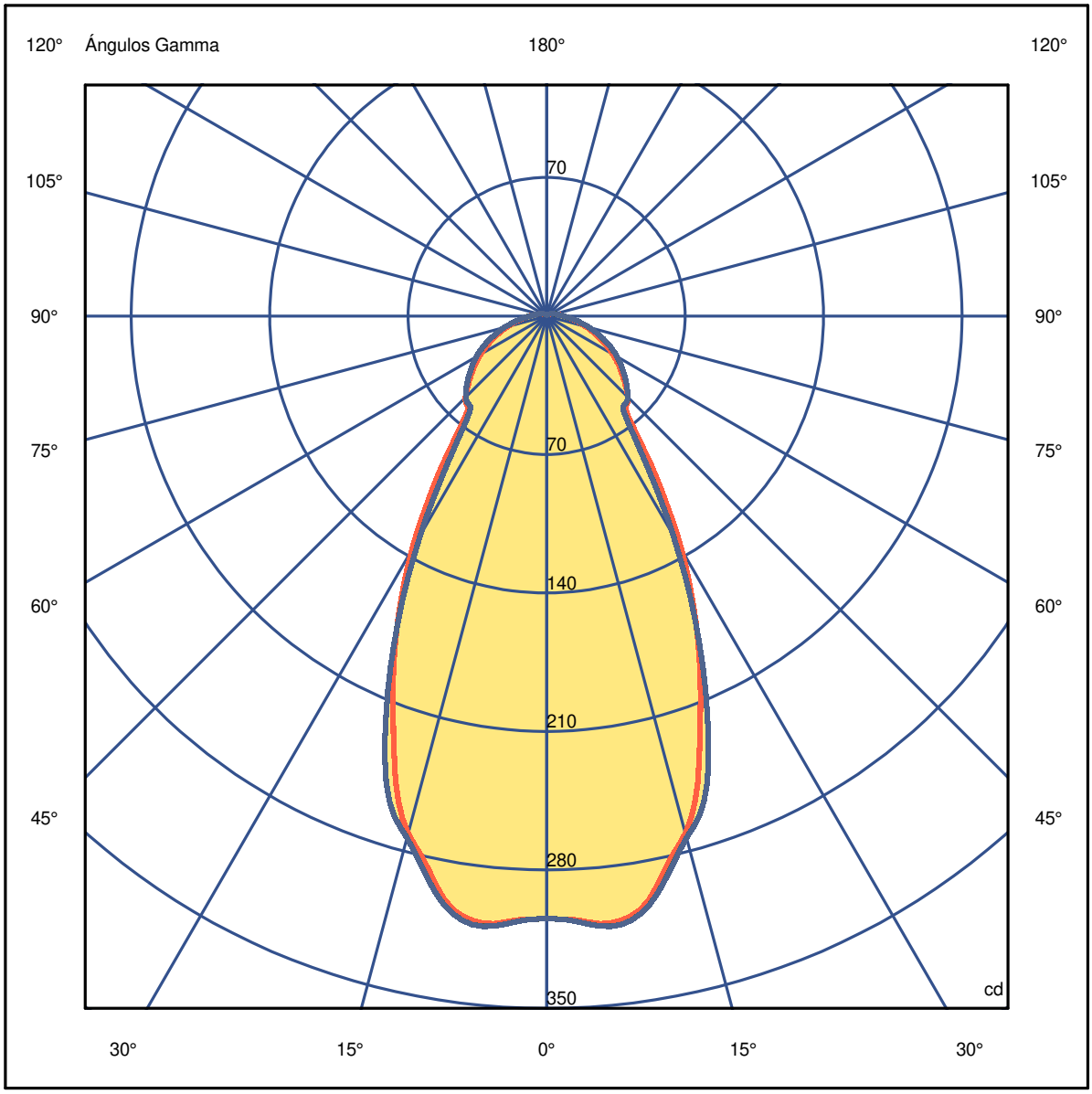
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Source Flux	417 lm	Maximum value	309.54 cd	Position	C=75.00 G=5.00	CG	Double Symmetrical

Diam=250mm



Semiplanos C

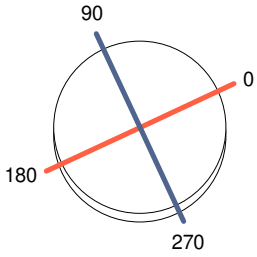
180.0 0.0
270.0 90.0



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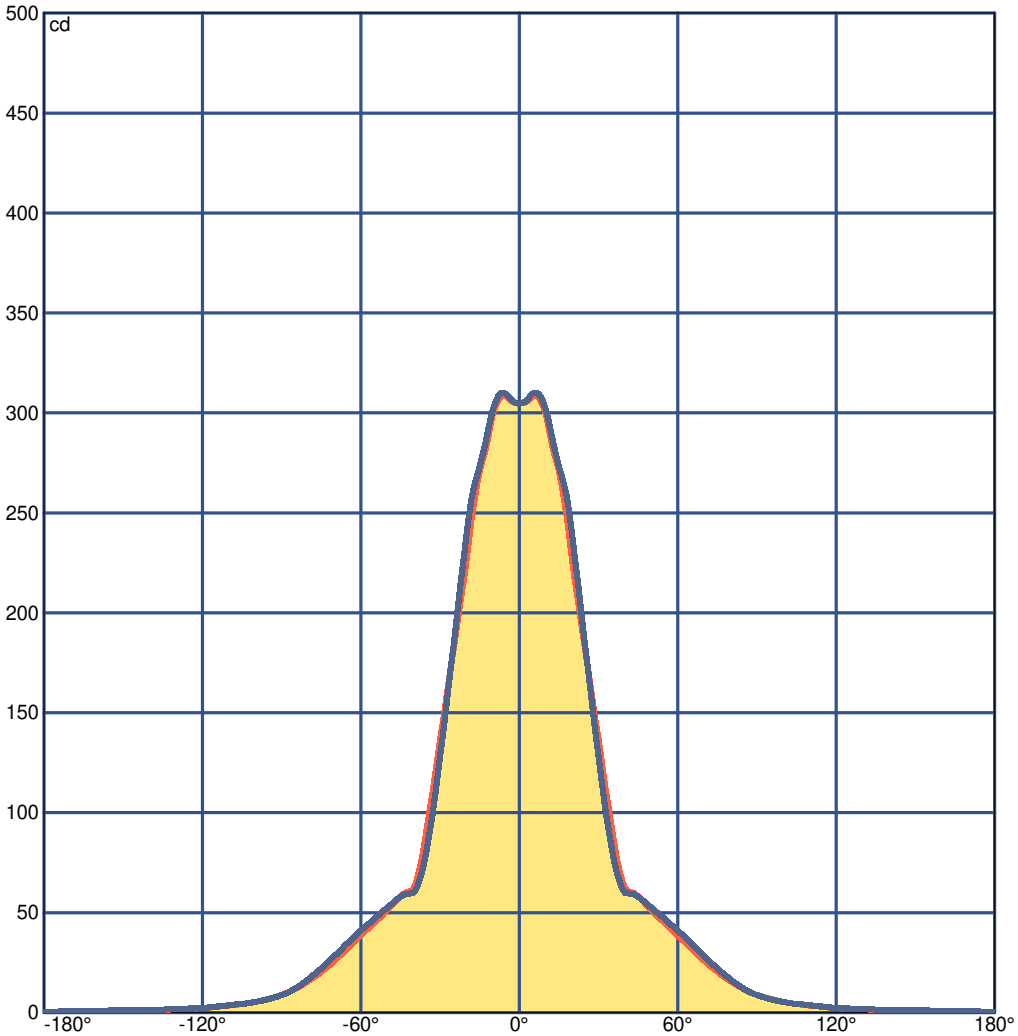
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Source Flux	417 lm	Maximum value	309.54 cd	Position	C=75.00 G=5.00	CG	Double Symmetrical

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	13.5	14.6	13.9	14.9	15.2	13.7	14.8	14.1	15.1	15.4
x=2H y=3H	14.9	15.9	15.3	16.2	16.5	15.2	16.2	15.6	16.5	16.9
x=2H y=4H	15.5	16.4	15.9	16.7	17.1	15.8	16.7	16.2	17.1	17.5
x=2H y=6H	15.9	16.8	16.4	17.2	17.6	16.3	17.2	16.7	17.5	17.9
x=2H y=8H	16.2	17.0	16.6	17.4	17.8	16.5	17.4	17.0	17.7	18.1
x=2H y=12H	16.3	17.1	16.8	17.5	18.0	16.7	17.5	17.1	17.9	18.3
x=4H y=2H	14.1	15.0	14.5	15.4	15.8	14.3	15.2	14.7	15.6	15.9
x=4H y=3H	15.7	16.5	16.1	16.9	17.3	16.0	16.7	16.4	17.2	17.6
x=4H y=4H	16.4	17.1	16.9	17.5	18.0	16.7	17.4	17.2	17.9	18.3
x=4H y=6H	17.0	17.6	17.5	18.1	18.6	17.4	18.0	17.9	18.4	18.9
x=4H y=8H	17.3	17.9	17.8	18.3	18.9	17.6	18.2	18.1	18.7	19.2
x=4H y=12H	17.6	18.1	18.1	18.6	19.1	17.9	18.4	18.4	18.9	19.4
x=8H y=4H	16.7	17.3	17.2	17.7	18.3	17.0	17.6	17.5	18.0	18.5
x=8H y=6H	17.5	18.0	18.1	18.5	19.1	17.8	18.3	18.4	18.8	19.3
x=8H y=8H	17.9	18.3	18.5	18.8	19.4	18.2	18.6	18.7	19.1	19.7
x=8H y=12H	18.3	18.6	18.8	19.2	19.8	18.5	18.9	19.1	19.4	20.0
x=12H y=4H	16.7	17.3	17.3	17.8	18.3	17.0	17.5	17.5	18.0	18.5
x=12H y=6H	17.6	18.0	18.2	18.5	19.1	17.9	18.3	18.4	18.8	19.4
x=12H y=8H	18.0	18.4	18.6	19.0	19.5	18.3	18.7	18.9	19.2	19.8

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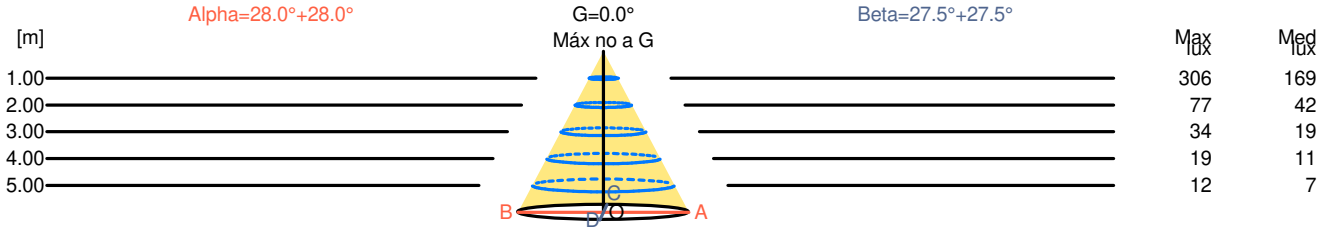
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Width at 50.00 % of Max Intensity

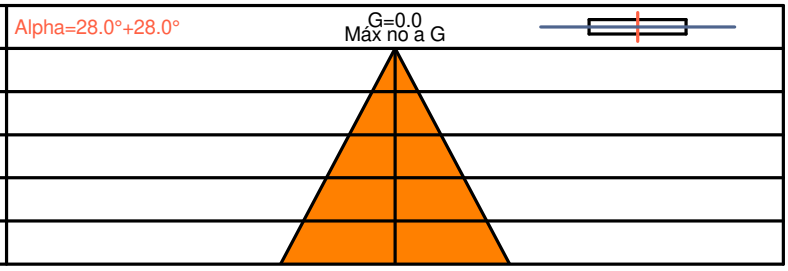
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	0.53	1.06	1.59	2.12	2.65	OC	0.52	1.04	1.56	2.09	2.61
OB	0.53	1.06	1.59	2.12	2.65	OD	0.52	1.04	1.56	2.09	2.61

Luminous Intensities [cd]

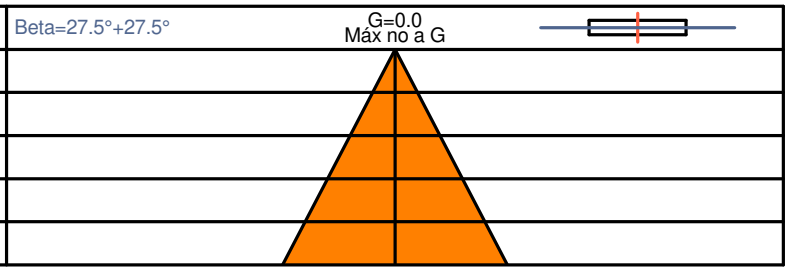
	0	5	15	25	35	45	55	65	75	85
OA	304.55	308.26	270.67	180.96	92.19	58.10	44.87	32.17	20.41	11.70
OB	304.55	308.26	270.67	180.96	92.19	58.10	44.87	32.17	20.41	11.70
OC	304.55	309.50	273.03	182.73	81.75	57.89	46.81	34.85	22.03	11.92
OD	304.55	309.50	273.03	182.73	81.75	57.89	46.81	34.85	22.03	11.92



H[m]	D[m]	Max lux	Med lux
1.00	1.06	306	169
2.00	2.12	77	42
3.00	3.18	34	19
4.00	4.25	19	11
5.00	5.31	12	7



H[m]	D[m]	Max lux	Med lux
1.00	1.04	306	169
2.00	2.09	77	42
3.00	3.13	34	19
4.00	4.17	19	11
5.00	5.21	12	7



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Flujo Total=417.00 Flujo Luminaria=417.00

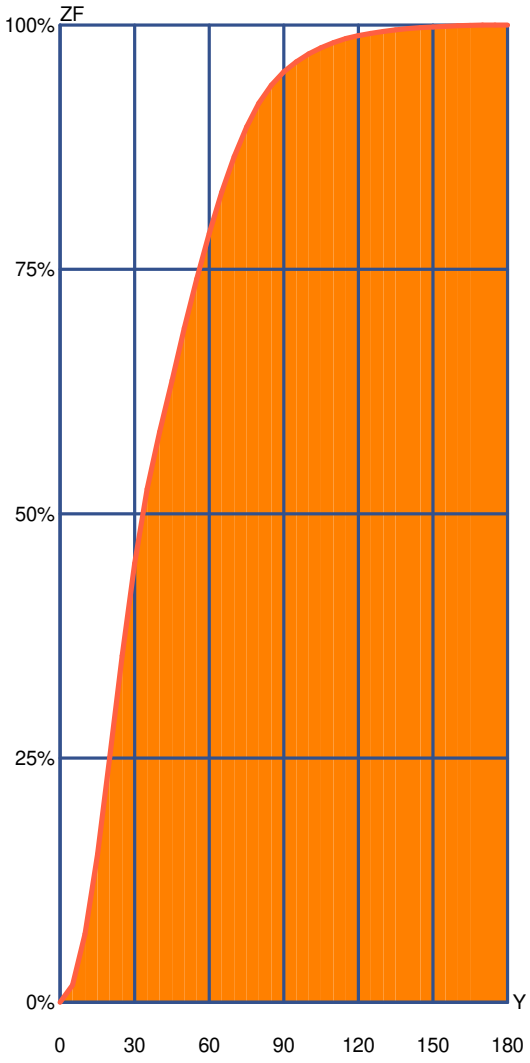
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.44	0.51	0.57	0.63	0.67	0.74	0.79	0.82	0.86	0.89	0.94	0.97
RC	3	3	3	3	3	3	3	3	3	3	3	3

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 %



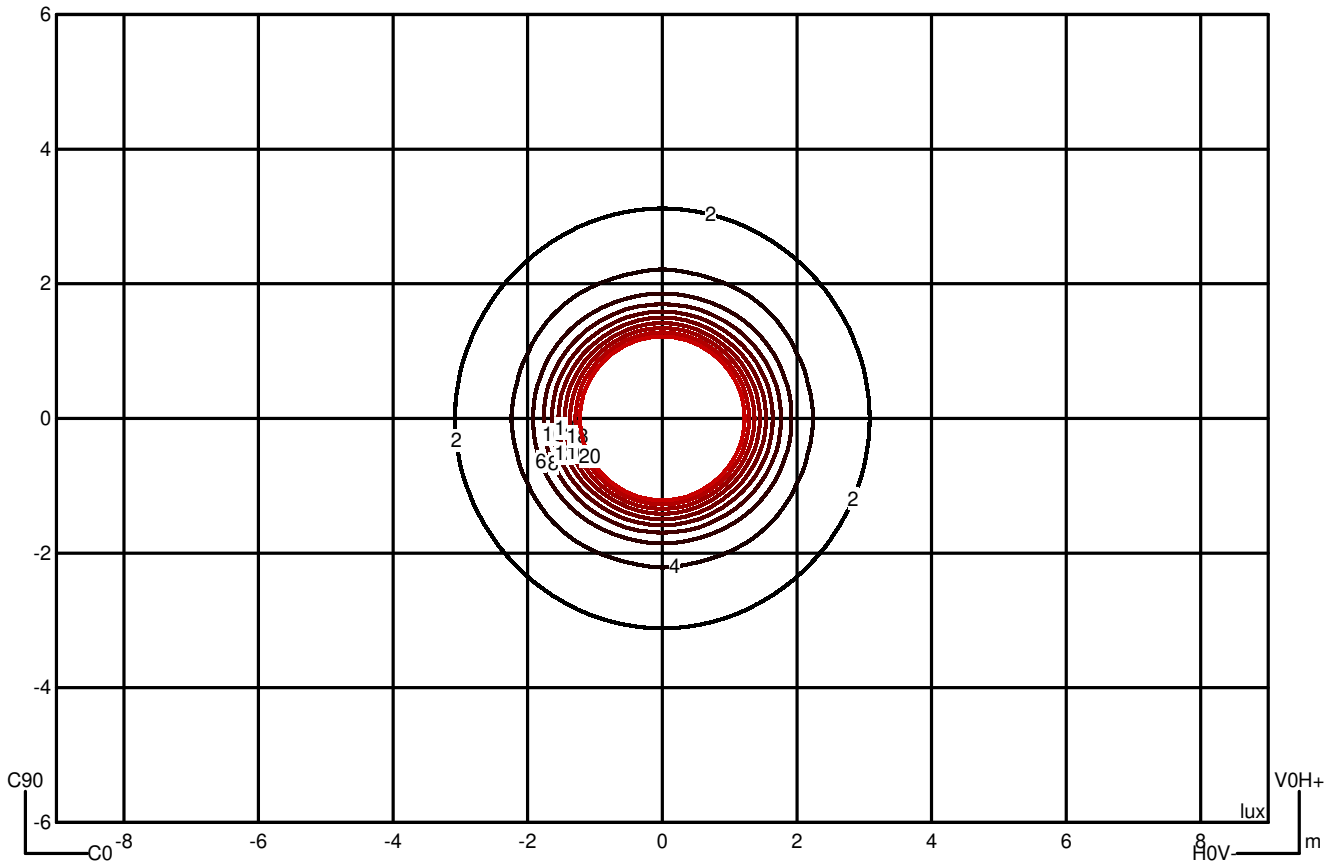
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	17.59	17.59	1.76 %	1.76 %
10°	52.55	70.14	5.26 %	7.01 %
15°	81.10	151.25	8.11 %	15.12 %
20°	99.39	250.64	9.94 %	25.06 %
25°	103.97	354.61	10.40 %	35.46 %
30°	94.51	449.12	9.45 %	44.91 %
35°	76.27	525.38	7.63 %	52.54 %
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_2700K_CREAM_RIBBON
Measurem.
Code CL092A24D014GP
Name KANDO_M40_2700K_CREAM_RIBBON

Luminaire Flux	417 lm	Luminaire Power	14.4 W	Efficacy	28.958 lm/W	Efficiency	100.00%
Source Flux	417 lm	Maximum value	309.54 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 =0.453302	y =0.408299	Color rendering index (CRI)
CIE1960	u =0.259289	v =0.350322	Color Rendering Components
CIE1976	u'=0.259289	v'=0.525483	
D(u,v)	0.00027		

CCT = [2776 K]*

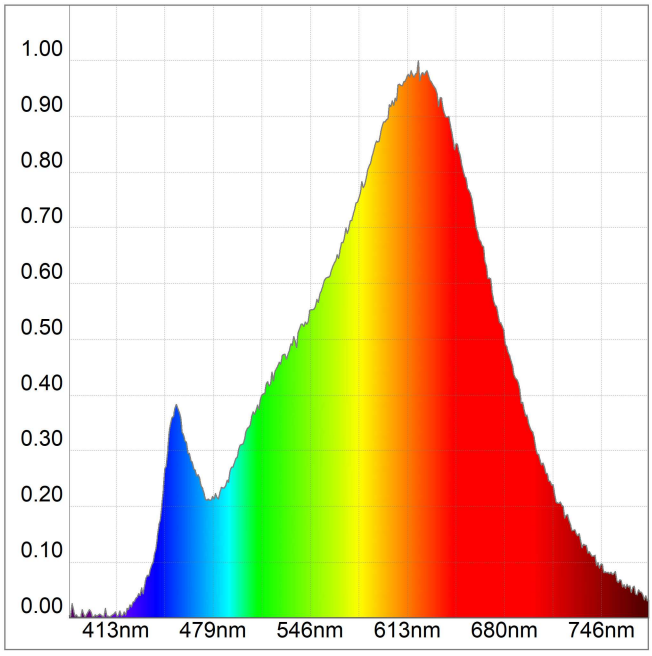
CRI8(Ra) [92.0]* CRI15(Rav) [89.3]*

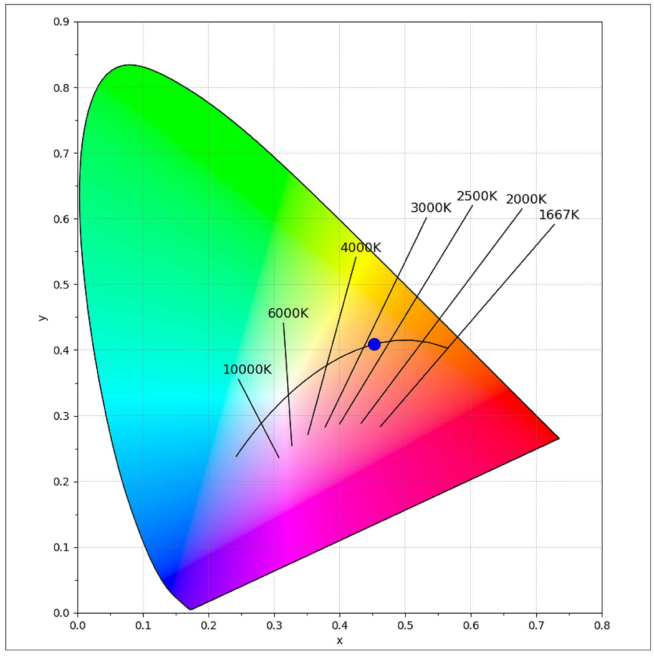
R 1: 92.1	R 2: 96.9	R 3: 98.3	R 4: 91.4	R 5: 92.1
R 6: 96.5	R 7: 90.1	R 8: 78.6	R 9: 54.1	R10: 92.2
R11: 92.4	R12: 83.6	R13: 93.5	R14: 99.7	R15: 87.5

Spectral Distribution

l(nm)	Radiant Power	l(nm)	Radiant Power	l(nm)	Radiant Power
380.0	0.004000	386.0	0.000925	392.0	0.005465
398.0	0.005200	404.0	0.000567	410.0	0.005200
416.0	0.003320	422.0	0.023300	428.0	0.043400
434.0	0.076300	440.0	0.125000	446.0	0.268000
452.0	0.361000	458.0	0.333000	464.0	0.282000
470.0	0.251000	476.0	0.213000	482.0	0.216000
488.0	0.237000	494.0	0.278000	500.0	0.312000
506.0	0.362000	512.0	0.393000	518.0	0.416000
524.0	0.452000	530.0	0.464000	536.0	0.497000
542.0	0.523000	548.0	0.553000	554.0	0.587000
560.0	0.614000	566.0	0.645000	572.0	0.690000
578.0	0.745000	584.0	0.778000	590.0	0.837000
596.0	0.883000	602.0	0.918000	608.0	0.958000
614.0	0.976000	620.0	0.978000	626.0	0.979000
632.0	0.953000	638.0	0.915000	644.0	0.873000
650.0	0.829000	656.0	0.767000	662.0	0.692000
668.0	0.632000	674.0	0.560000	680.0	0.516000
686.0	0.453000	692.0	0.385000	698.0	0.342000
704.0	0.293000	710.0	0.259000	716.0	0.208000
722.0	0.179000	728.0	0.157000	734.0	0.126000
740.0	0.114000	746.0	0.089200	752.0	0.081500
758.0	0.066800	764.0	0.052700	770.0	0.056600
776.0	0.040700				

Spectrum Graph

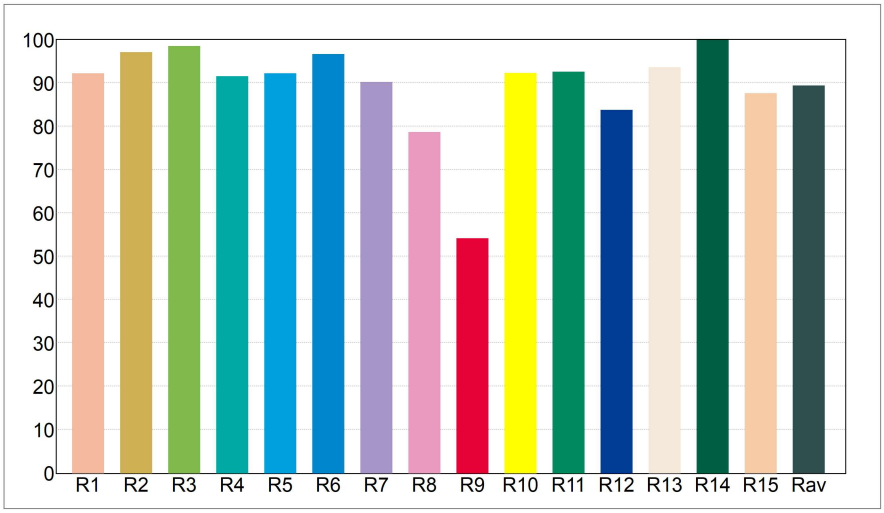


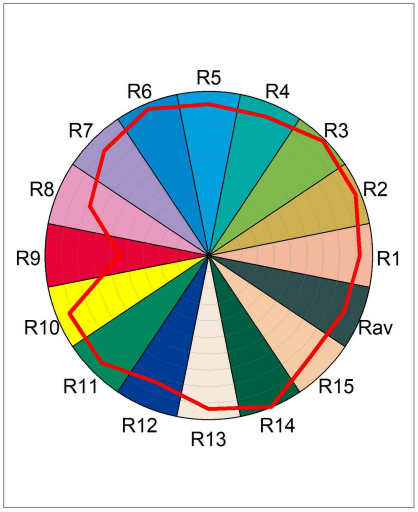


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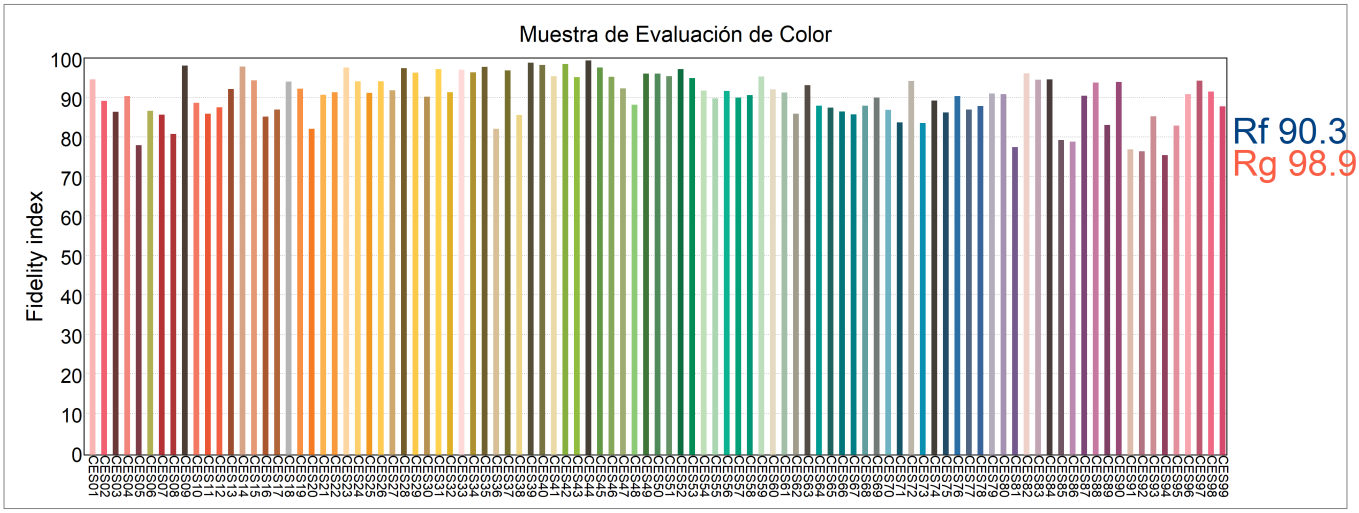
CRI Graphs



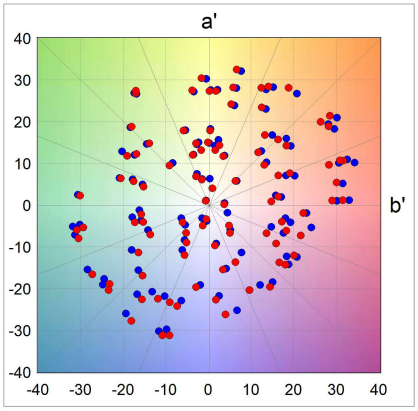


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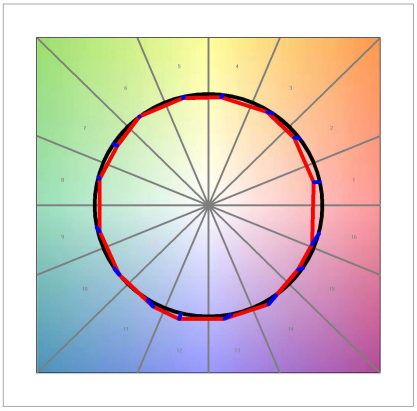
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Source Flux	417 lm	Maximum value	309.54 cd	Position	C=75.00 G=5.00	CG	Double Symmetrical



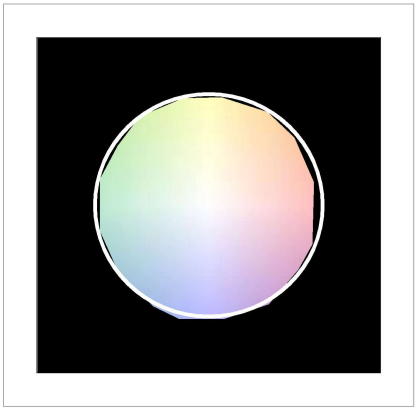
Chromatic Coordinates (a', b') 99 CES



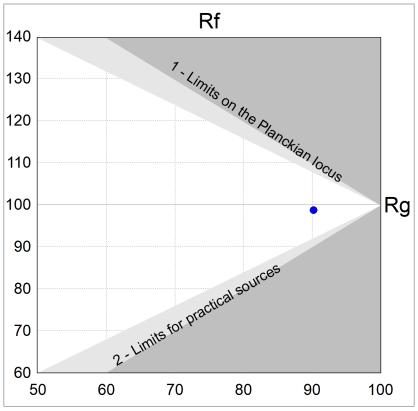
Color Vector Graphic



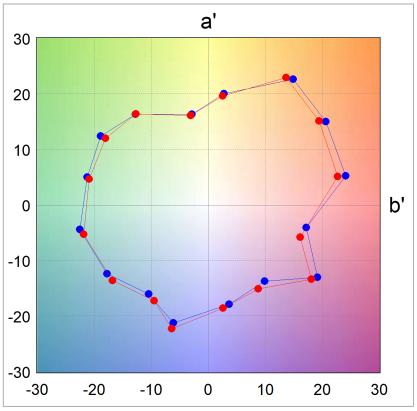
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

