Luminaire

Code	36608222190U
Name	RODA_S90V_REMOTE_10V_BROWN_CREAM_RIBBON
Line	OxyTech

Measurem.

Code	CL092A23F013GE1
Name	RODA_S90V_REMOTE_10V_BROWN_CREAM_RIBBON

Source Data

Code	RF-xxHI35DS-EF-2N-Y 1030E0 2021-12-41	Correlated Color Temperature (CCT)	2108K	Q.ty	1
Name	REFOND	Color rendering index (CRI)	84		
Line					

Measurement data

Coordinate system	CG	Symmetry Type	Asymmetrical
Date	21-07-2023	Maximum Gamma Angle	180°
Measurement Distance	6.44m	Measurement Flux	504.6 lm
Maximum	155.63 cd/klm	Position	C=0.0° G=0.0°

Electrical Parameters

Channel 1		Channel 2	
Voltage	0.00 V	Voltage	0.00 V
Current	0.00 A	Current	0.00 A
Power	47.50 W	Power	0.00 W
Frequency	50 Hz	Frequency	50 Hz
Power Factor	1.00	Power Factor	1.00

Environmental Parameters

Temperature	24.8 °C	Air Speed	0.0 m/s
Humidity	54.1 %		

Luminaire Dimensions

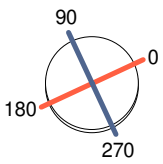
Round Luminaire	Diam.	900 mm	Height	60 mm	
Round Luminous Area	Diam.	900 mm	Height	60 mm	
Horizontal Luminous Area	0.636173 m2		Emitting area on Plane 180°	0.054000 m2	
Emitting area on Plane 0°	0.054000 m2		Emitting area on Plane 270°	0.054000 m2	
Emitting area on Plane 90°	0.054000 m2		Glare area at 76°	0.206300 m2	

Photometric Assessment

Luminaire Flux	505.0 lm	Source Flux	505.0 lm
Efficacy	10.632 lm/W	Efficiency	100.0 %
CIE Flux Codes	42 71 90 50 100	D DIN 5040	C31
F UTE	0.50 G + 0.50 T	B NBN	BZ 5

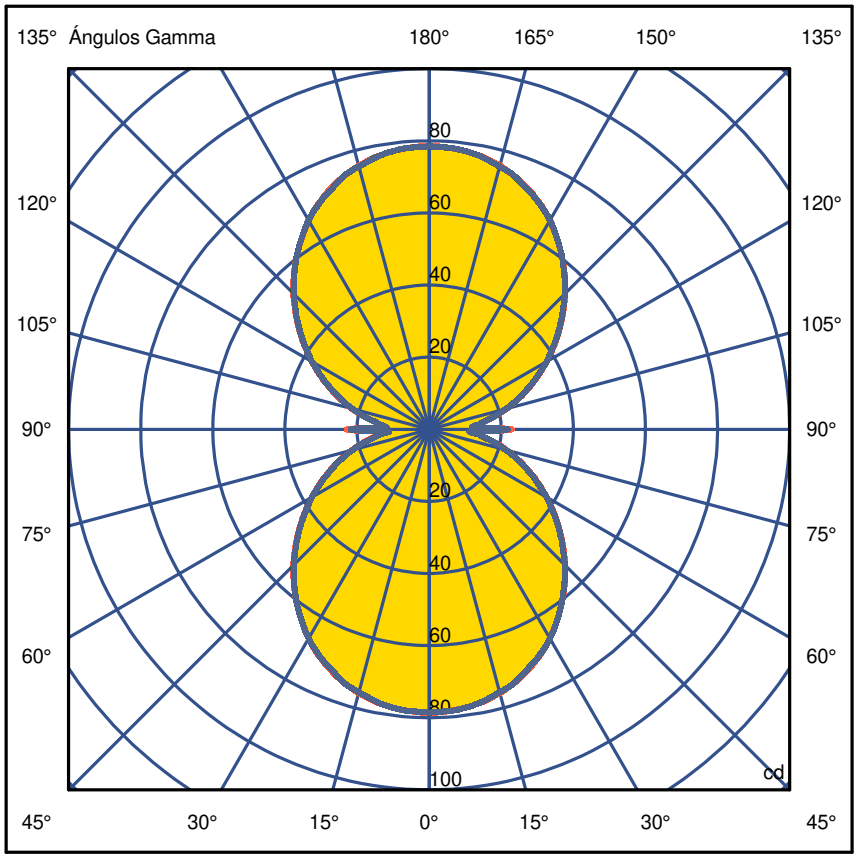


Diam=900mm





ULOR 49.99 %
DLOR 50.01 %
RN 49.99 %



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Luminaire Flux	505 lm	Luminaire Power	47.5 W	Efficacy	10.632 lm/W	Efficiency	100.00%
Source Flux	505 lm	Maximum value	78.59 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

Luminous Intensity Table cd **Table 1/2**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00	C 105.00	C 120.00	C 135.00	C 150.00	C 165.00	C 180.00
G 0.0	79	79	79	79	79	79	79	79	79	79	79	79	79
G 2.5	78	79	79	79	78	78	78	78	78	79	79	79	78
G 5.0	78	78	78	78	78	78	78	78	78	78	78	78	78
G 7.5	78	78	78	78	78	78	78	78	78	78	78	78	78
G 10.0	77	77	77	77	77	77	77	77	77	77	77	77	77
G 12.5	77	77	77	77	77	76	76	76	77	77	77	77	77
G 15.0	76	76	76	76	76	76	75	76	76	76	76	76	76
G 17.5	75	75	75	75	75	75	75	75	75	75	75	75	75
G 20.0	73	74	74	74	74	73	73	73	74	74	74	74	73
G 22.5	72	72	72	72	72	72	72	72	72	72	72	72	72
G 25.0	70	71	71	71	71	70	70	70	71	71	71	71	70
G 27.5	69	69	69	69	69	69	69	69	69	69	69	69	69
G 30.0	67	67	67	67	67	67	67	67	67	67	67	67	67
G 32.5	65	65	65	65	65	65	65	65	65	65	65	65	65
G 35.0	63	63	63	63	63	63	63	63	63	63	63	63	63
G 37.5	60	61	61	61	61	61	60	61	61	61	61	61	60
G 40.0	58	58	59	59	58	58	58	58	58	59	59	58	58
G 42.5	56	56	56	56	56	56	56	56	56	56	56	56	56
G 45.0	53	53	54	54	53	53	53	53	53	54	54	53	53
G 47.5	51	51	51	51	51	51	50	51	51	51	51	51	51
G 50.0	48	48	48	48	48	48	48	48	48	48	48	48	48
G 52.5	45	46	46	46	46	45	45	45	46	46	46	46	45
G 55.0	43	43	43	43	43	43	43	43	43	43	43	43	43
G 57.5	40	40	40	40	40	40	40	40	40	40	40	40	40
G 60.0	38	38	38	38	38	38	37	38	38	38	38	38	38
G 62.5	35	35	35	35	35	35	35	35	35	35	35	35	35
G 65.0	32	32	33	32	32	32	32	32	32	32	33	32	32
G 67.5	30	30	30	30	30	30	30	30	30	30	30	30	30
G 70.0	27	27	27	27	27	27	27	27	27	27	27	27	27
G 72.5	25	25	25	25	25	25	25	25	25	25	25	25	25
G 75.0	22	22	22	22	22	22	22	22	22	22	22	22	22
G 77.5	20	20	20	20	20	20	20	20	20	20	20	20	20
G 80.0	17	17	17	17	17	17	17	17	17	17	17	17	17
G 82.5	15	15	15	15	15	15	15	15	15	15	15	15	15
G 85.0	13	13	13	13	13	13	13	13	13	13	13	13	13
G 87.5	13	13	13	13	12	12	12	12	12	13	13	13	13
G 90.0	23	23	23	23	23	22	22	22	23	23	23	23	23
G 92.5	12	12	12	12	12	12	12	12	12	12	12	12	12
G 95.0	13	13	13	13	13	13	13	13	13	13	13	13	13
G 97.5	15	15	15	15	15	15	15	15	15	15	15	15	15
G100.0	17	17	17	17	17	17	17	17	17	17	17	17	17
G102.5	20	20	20	20	20	20	20	20	20	20	20	20	20
G105.0	22	22	22	22	22	22	22	22	22	22	22	22	22
G107.5	25	25	25	25	25	25	25	25	25	25	25	25	25
G110.0	27	27	27	27	27	27	27	27	27	27	27	27	27
G112.5	30	30	30	30	30	30	30	30	30	30	30	30	30
G115.0	32	32	33	32	32	32	32	32	32	32	33	32	32
G117.5	35	35	35	35	35	35	35	35	35	35	35	35	35
G120.0	38	38	38	38	38	38	37	38	38	38	38	38	38
G122.5	40	40	40	40	40	40	40	40	40	40	40	40	40
G125.0	43	43	43	43	43	43	43	43	43	43	43	43	43
G127.5	45	46	46	46	46	45	45	45	46	46	46	46	45
G130.0	48	48	48	48	48	48	48	48	48	48	48	48	48
G132.5	51	51	51	51	51	51	50	51	51	51	51	51	51
G135.0	53	53	54	54	53	53	53	53	53	54	54	53	53
G137.5	56	56	56	56	56	56	56	56	56	56	56	56	56
G140.0	58	58	59	59	58	58	58	58	58	59	59	58	58
G142.5	60	61	61	61	61	61	60	61	61	61	61	61	60
G145.0	63	63	63	63	63	63	63	63	63	63	63	63	63
G147.5	65	65	65	65	65	65	65	65	65	65	65	65	65
G150.0	67	67	67	67	67	67	67	67	67	67	67	67	67
G152.5	69	69	69	69	69	69	69	69	69	69	69	69	69
G155.0	70	71	71	71	71	70	70	70	71	71	71	71	70
G157.5	72	72	72	72	72	72	72	72	72	72	72	72	72
G160.0	73	74	74	74	74	73	73	73	74	74	74	74	73
G162.5	75	75	75	75	75	75	75	75	75	75	75	75	75
G165.0	76	76	76	76	76	76	75	76	76	76	76	76	76
G167.5	77	77	77	77	77	76	76	76	77	77	77	77	77
G170.0	77	77	77	77	77	77	77	77	77	77	77	77	77
G172.5	78	78	78	78	78	78	78	78	78	78	78	78	78
G175.0	78	78	78	78	78	78	78	78	78	78	78	78	78
G177.5	78	79	79	79	78	78	78	78	78	79	79	79	78
G180.0	79	79	79	79	79	79	79	79	79	79	79	79	79

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Luminaire Flux	505 lm	Luminaire Power	47.5 W	Efficacy	10.632 lm/W	Efficiency	100.00%
Source Flux	505 lm	Maximum value	78.59 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

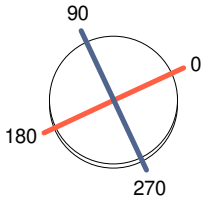
Luminous Intensity Table cd **Table 2/2**

	C 195.00	C 210.00	C 225.00	C 240.00	C 255.00	C 270.00	C 285.00	C 300.00	C 315.00	C 330.00	C 345.00
G 0.0	79	79	79	79	79	79	79	79	79	79	79
G 2.5	79	79	79	78	78	78	78	78	79	79	79
G 5.0	78	78	78	78	78	78	78	78	78	78	78
G 7.5	78	78	78	78	78	78	78	78	78	78	78
G 10.0	77	77	77	77	77	77	77	77	77	77	77
G 12.5	77	77	77	77	76	76	76	77	77	77	77
G 15.0	76	76	76	76	76	75	76	76	76	76	76
G 17.5	75	75	75	75	75	75	75	75	75	75	75
G 20.0	74	74	74	74	73	73	73	74	74	74	74
G 22.5	72	72	72	72	72	72	72	72	72	72	72
G 25.0	71	71	71	71	70	70	70	71	71	71	71
G 27.5	69	69	69	69	69	69	69	69	69	69	69
G 30.0	67	67	67	67	67	67	67	67	67	67	67
G 32.5	65	65	65	65	65	65	65	65	65	65	65
G 35.0	63	63	63	63	63	63	63	63	63	63	63
G 37.5	61	61	61	61	61	60	61	61	61	61	61
G 40.0	58	59	59	58	58	58	58	58	59	59	58
G 42.5	56	56	56	56	56	56	56	56	56	56	56
G 45.0	53	54	54	53	53	53	53	53	54	54	53
G 47.5	51	51	51	51	51	50	51	51	51	51	51
G 50.0	48	48	48	48	48	48	48	48	48	48	48
G 52.5	46	46	46	46	45	45	45	46	46	46	46
G 55.0	43	43	43	43	43	43	43	43	43	43	43
G 57.5	40	40	40	40	40	40	40	40	40	40	40
G 60.0	38	38	38	38	38	37	38	38	38	38	38
G 62.5	35	35	35	35	35	35	35	35	35	35	35
G 65.0	32	33	32	32	32	32	32	32	32	33	32
G 67.5	30	30	30	30	30	30	30	30	30	30	30
G 70.0	27	27	27	27	27	27	27	27	27	27	27
G 72.5	25	25	25	25	25	25	25	25	25	25	25
G 75.0	22	22	22	22	22	22	22	22	22	22	22
G 77.5	20	20	20	20	20	20	20	20	20	20	20
G 80.0	17	17	17	17	17	17	17	17	17	17	17
G 82.5	15	15	15	15	15	15	15	15	15	15	15
G 85.0	13	13	13	13	13	13	13	13	13	13	13
G 87.5	13	13	13	12	12	12	12	12	13	13	13
G 90.0	23	23	23	23	22	22	22	23	23	23	23
G 92.5	12	12	12	12	12	12	12	12	12	12	12
G 95.0	13	13	13	13	13	13	13	13	13	13	13
G 97.5	15	15	15	15	15	15	15	15	15	15	15
G100.0	17	17	17	17	17	17	17	17	17	17	17
G102.5	20	20	20	20	20	20	20	20	20	20	20
G105.0	22	22	22	22	22	22	22	22	22	22	22
G107.5	25	25	25	25	25	25	25	25	25	25	25
G110.0	27	27	27	27	27	27	27	27	27	27	27
G112.5	30	30	30	30	30	30	30	30	30	30	30
G115.0	32	33	32	32	32	32	32	32	32	33	32
G117.5	35	35	35	35	35	35	35	35	35	35	35
G120.0	38	38	38	38	38	37	38	38	38	38	38
G122.5	40	40	40	40	40	40	40	40	40	40	40
G125.0	43	43	43	43	43	43	43	43	43	43	43
G127.5	46	46	46	46	45	45	45	46	46	46	46
G130.0	48	48	48	48	48	48	48	48	48	48	48
G132.5	51	51	51	51	51	50	51	51	51	51	51
G135.0	53	54	54	53	53	53	53	53	54	54	53
G137.5	56	56	56	56	56	56	56	56	56	56	56
G140.0	58	59	59	58	58	58	58	58	59	59	58
G142.5	61	61	61	61	61	60	61	61	61	61	61
G145.0	63	63	63	63	63	63	63	63	63	63	63
G147.5	65	65	65	65	65	65	65	65	65	65	65
G150.0	67	67	67	67	67	67	67	67	67	67	67
G152.5	69	69	69	69	69	69	69	69	69	69	69
G155.0	71	71	71	71	70	70	70	71	71	71	71
G157.5	72	72	72	72	72	72	72	72	72	72	72
G160.0	74	74	74	74	73	73	73	74	74	74	74
G162.5	75	75	75	75	75	75	75	75	75	75	75
G165.0	76	76	76	76	76	75	76	76	76	76	76
G167.5	77	77	77	77	76	76	76	77	77	77	77
G170.0	77	77	77	77	77	77	77	77	77	77	77
G172.5	78	78	78	78	78	78	78	78	78	78	78
G175.0	78	78	78	78	78	78	78	78	78	78	78
G177.5	79	79	79	78	78	78	78	78	79	79	79
G180.0	79	79	79	79	79	79	79	79	79	79	79

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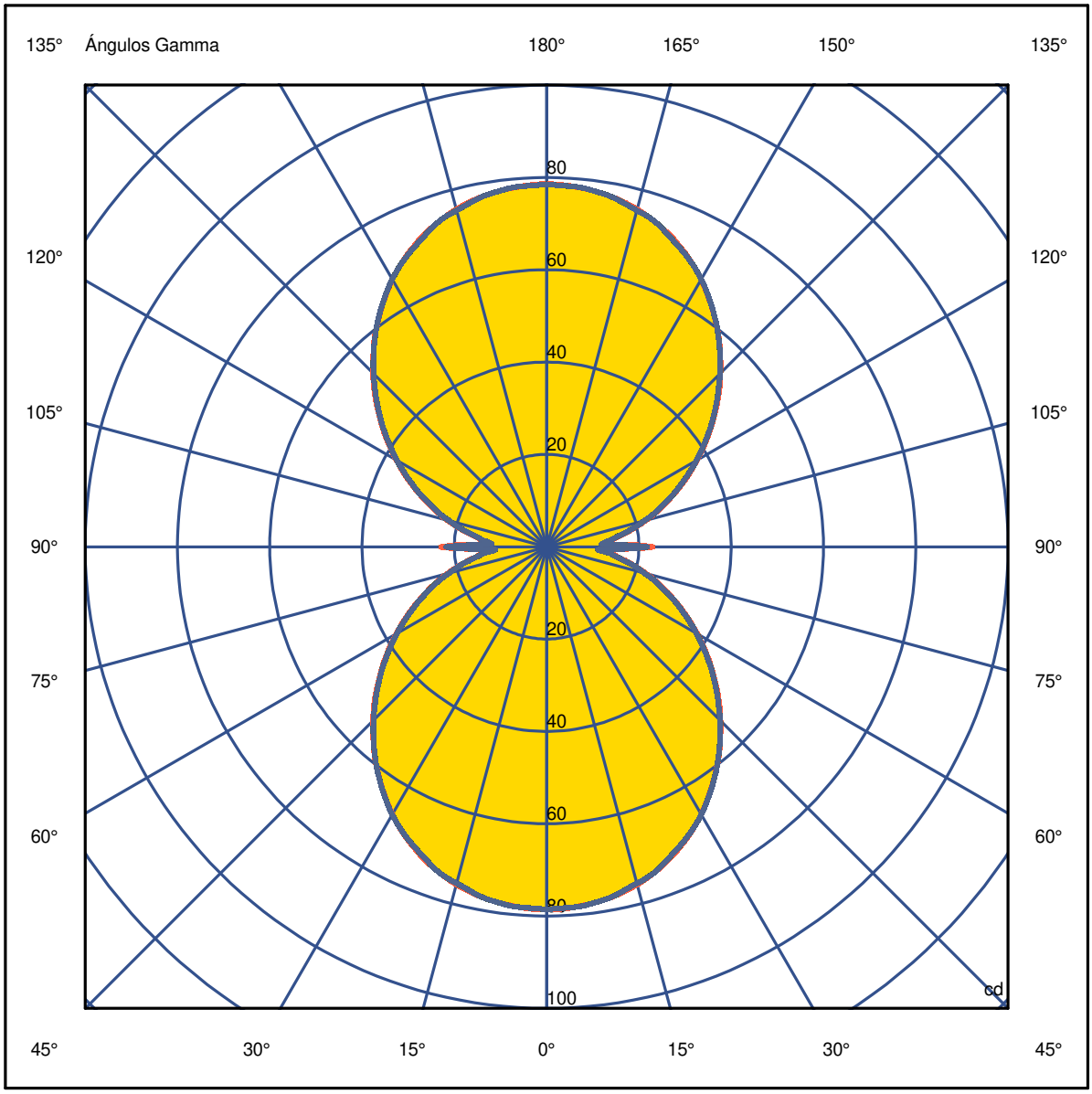
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Diam=900mm



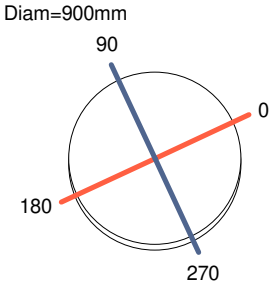
Semiplanos C

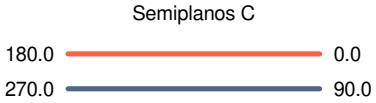
180.0 0.0
270.0 90.0

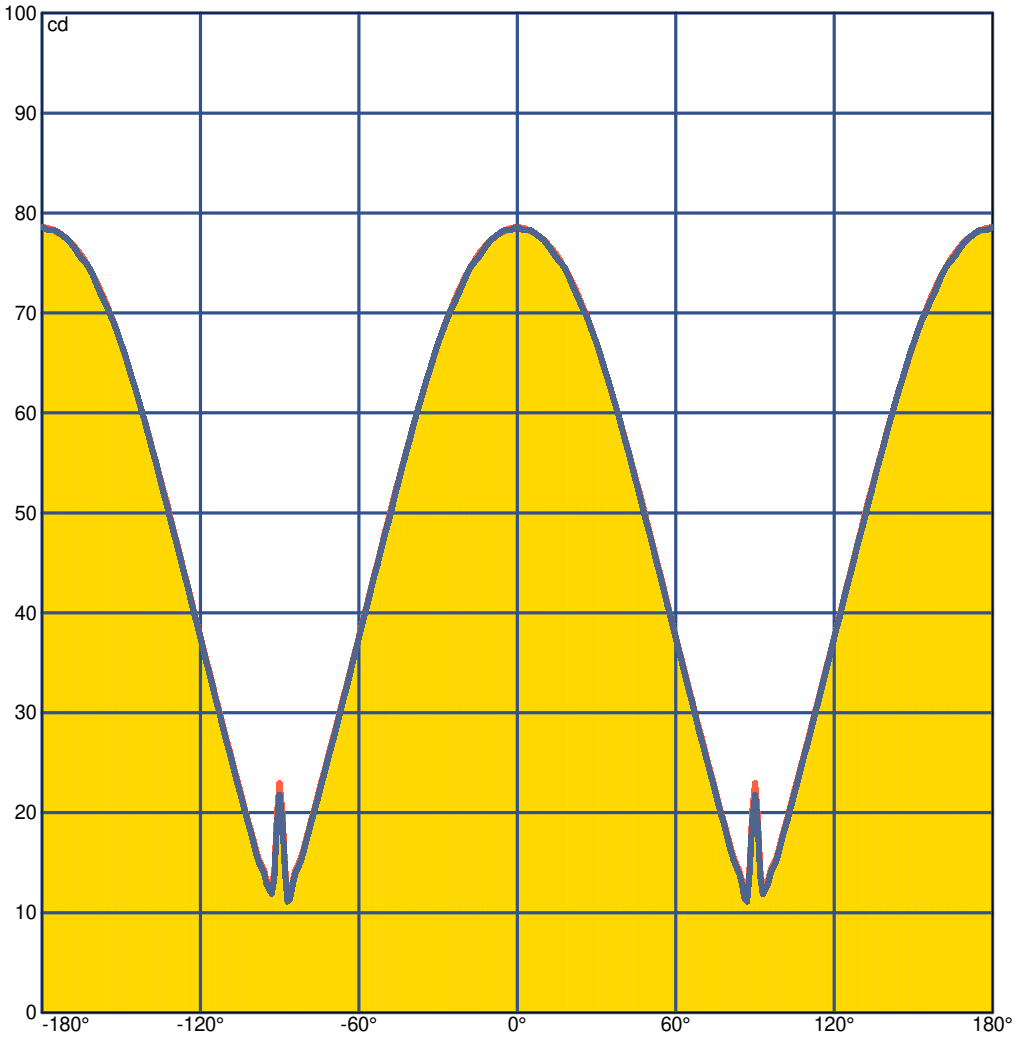


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Source Flux	505 lm	Maximum value	78.59 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

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	1.3	2.1	2.2	3.0	4.2	1.3	2.1	2.1	3.0	4.1
x=2H y=3H	3.0	3.8	3.9	4.7	5.9	3.0	3.7	3.9	4.7	5.8
x=2H y=4H	3.9	4.6	4.8	5.5	6.7	3.8	4.5	4.7	5.4	6.6
x=2H y=6H	4.6	5.3	5.6	6.2	7.4	4.6	5.2	5.5	6.2	7.4
x=2H y=8H	5.0	5.6	5.9	6.5	7.8	4.9	5.5	5.9	6.5	7.7
x=2H y=12H	5.3	5.9	6.3	6.9	8.1	5.3	5.8	6.2	6.8	8.0
x=4H y=2H	1.9	2.6	2.8	3.5	4.7	1.8	2.5	2.8	3.5	4.7
x=4H y=3H	3.8	4.4	4.8	5.4	6.6	3.8	4.4	4.7	5.3	6.6
x=4H y=4H	4.8	5.3	5.8	6.3	7.5	4.8	5.3	5.7	6.3	7.5
x=4H y=6H	5.7	6.2	6.7	7.2	8.4	5.7	6.1	6.6	7.1	8.4
x=4H y=8H	6.1	6.6	7.1	7.6	8.9	6.1	6.5	7.1	7.5	8.8
x=4H y=12H	6.6	7.0	7.6	8.0	9.3	6.5	6.9	7.5	7.9	9.2
x=8H y=4H	5.1	5.5	6.1	6.5	7.8	5.1	5.5	6.1	6.5	7.8
x=8H y=6H	6.2	6.6	7.3	7.6	8.9	6.2	6.5	7.2	7.6	8.9
x=8H y=8H	6.8	7.1	7.8	8.1	9.5	6.8	7.0	7.8	8.1	9.4
x=8H y=12H	7.4	7.7	8.5	8.7	10.1	7.3	7.6	8.4	8.6	10.0
x=12H y=4H	5.2	5.5	6.2	6.5	7.8	5.1	5.5	6.1	6.5	7.8
x=12H y=6H	6.3	6.6	7.4	7.7	9.0	6.3	6.6	7.3	7.6	9.0
x=12H y=8H	7.0	7.3	8.0	8.3	9.6	6.9	7.2	8.0	8.2	9.6

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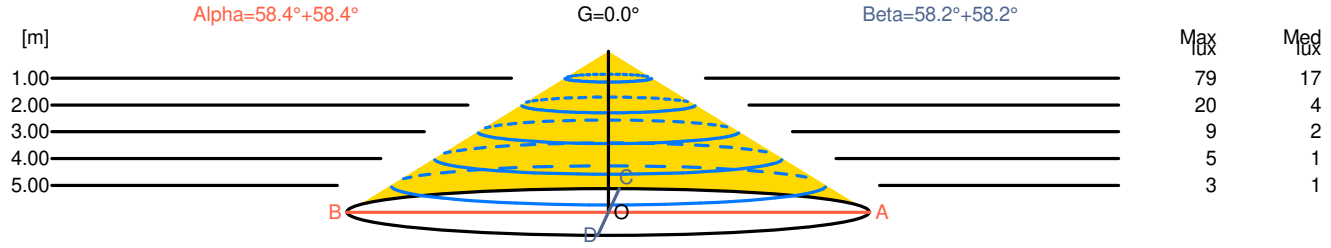
Luminaire Flux	505 lm	Luminaire Power	47.5 W	Efficacy	10.632 lm/W	Efficiency	100.00%
Source Flux	505 lm	Maximum value	78.59 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

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	1.62	3.25	4.87	6.50	8.12	OC	1.62	3.23	4.85	6.46	8.08
OB	1.62	3.25	4.87	6.50	8.12	OD	1.62	3.23	4.85	6.46	8.08

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	78.59	78.18	75.71	70.48	62.68	53.26	42.90	32.39	22.25	13.24
OB	78.59	78.18	75.71	70.48	62.68	53.26	42.90	32.39	22.25	13.24
OC	78.59	78.26	75.43	70.34	62.71	53.10	42.73	32.20	21.95	12.93
OD	78.59	78.26	75.43	70.34	62.71	53.10	42.73	32.20	21.95	12.93



H[m]	D[m]	Max lux	Med lux	Alpha=58.4°+58.4° G=0.0
1.00	3.25	79	17	
2.00	6.50	20	4	
3.00	9.75	9	2	
4.00	13.00	5	1	
5.00	16.24	3	1	

H[m]	D[m]	Max lux	Med lux	Beta=58.2°+58.2° G=0.0
1.00	3.23	79	17	
2.00	6.46	20	4	
3.00	9.69	9	2	
4.00	12.92	5	1	
5.00	16.15	3	1	

Luminaire
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Flujo Total=505.00 Flujo Luminaria=505.00

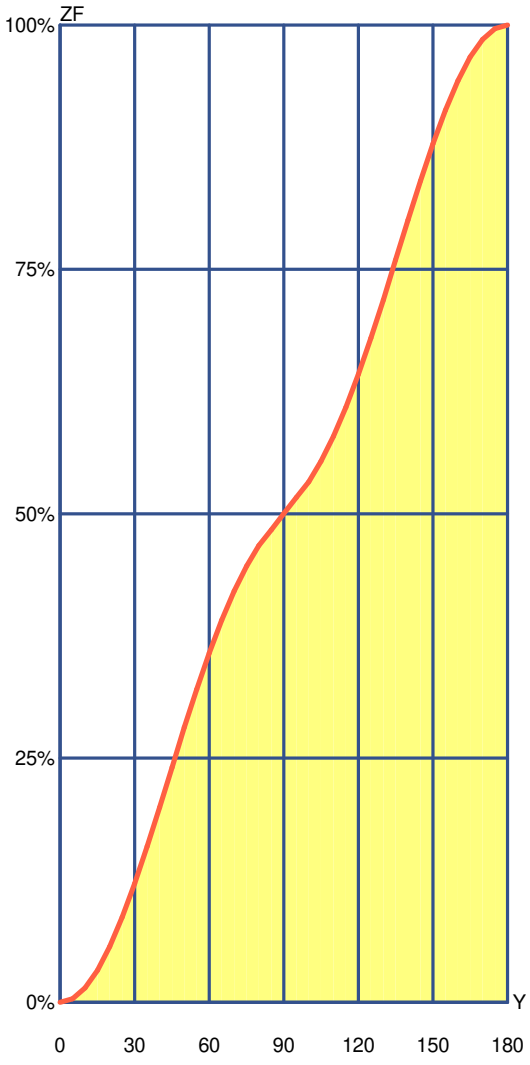
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.27	0.35	0.42	0.49	0.54	0.62	0.68	0.72	0.78	0.81	0.89	0.94
RC	6	6	6	6	6	6	6	6	6	6	7	7

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)	15	57	122	200	281	357	421	467	500	533	579	643	719	800	878	943	985	1000

Códigos de Flujo C.I.E.
42 71 90 50 100

C.I.E.	6/6/6/6/6/6/6/6/6/7/7	LOR	100.00000 %
D DIN 5040	C31	ULOR	49.98544 %
F UTE	0.50 G + 0.50 T	DLOR	50.01456 %
B NBN	BZ 5	UFF	49.98544 %
RN	49.98544 %	DFF	50.01456 %
BLF	1.0	FFR	99.94178 %



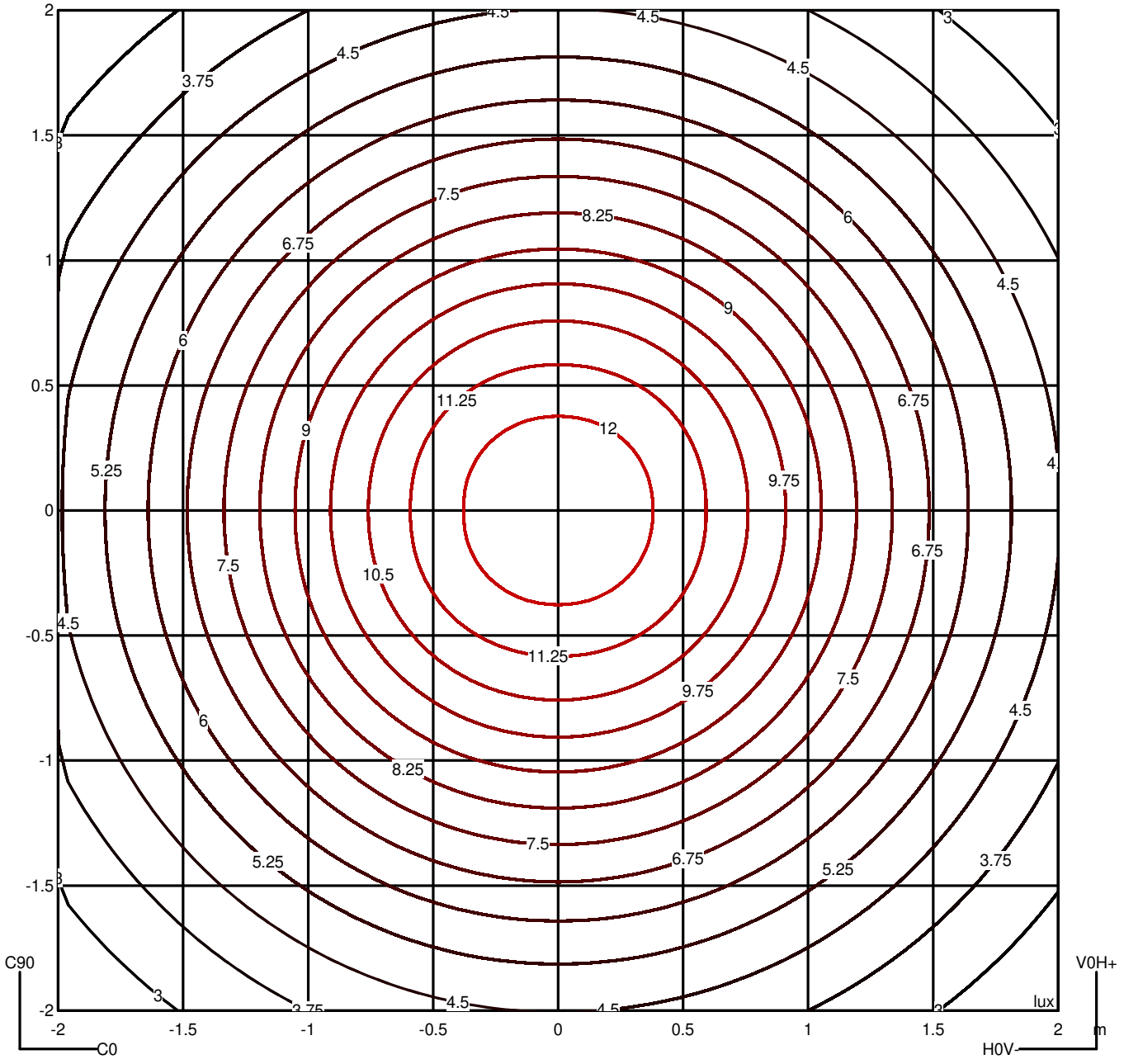
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	3.71	3.71	0.37 %	0.37 %
10°	11.02	14.73	1.10 %	1.47 %
15°	17.99	32.72	1.80 %	3.27 %
20°	24.38	57.10	2.44 %	5.71 %
25°	29.93	87.03	2.99 %	8.70 %
30°	34.51	121.54	3.45 %	12.15 %
35°	37.91	159.45	3.79 %	15.94 %
40°	40.08	199.53	4.01 %	19.95 %
45°	40.99	240.52	4.10 %	24.05 %
50°	40.69	281.22	4.07 %	28.12 %
55°	39.26	320.47	3.93 %	32.05 %
60°	36.85	357.32	3.68 %	35.73 %
65°	33.66	390.98	3.37 %	39.10 %
70°	29.89	420.87	2.99 %	42.09 %
75°	25.60	446.47	2.56 %	44.65 %
80°	20.88	467.35	2.09 %	46.73 %
85°	16.27	483.62	1.63 %	48.36 %
90°	16.53	500.15	1.65 %	50.01 %
95°	16.24	516.38	1.62 %	51.64 %
100°	16.27	532.65	1.63 %	53.27 %
105°	20.88	553.53	2.09 %	55.35 %
110°	25.60	579.13	2.56 %	57.91 %
115°	29.89	609.02	2.99 %	60.90 %
120°	33.66	642.68	3.37 %	64.27 %
125°	36.85	679.53	3.68 %	67.95 %
130°	39.26	718.78	3.93 %	71.88 %
135°	40.69	759.48	4.07 %	75.95 %
140°	40.99	800.47	4.10 %	80.05 %
145°	40.08	840.55	4.01 %	84.06 %
150°	37.91	878.46	3.79 %	87.85 %
155°	34.51	912.97	3.45 %	91.30 %
160°	29.93	942.90	2.99 %	94.29 %
165°	24.38	967.28	2.44 %	96.73 %
170°	17.99	985.27	1.80 %	98.53 %
175°	11.02	996.29	1.10 %	99.63 %
180°	3.71	1000.00	0.37 %	100.00 %

Luminaire
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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 =0.523351	y =0.426187
CIE1960	u =0.296200	v =0.361812
CIE1976	u'=0.296200	v'=0.542718
D(u,v)	0.00363	

Color rendering index (CRI)
Color Rendering Components

CCT = [2108 K]*

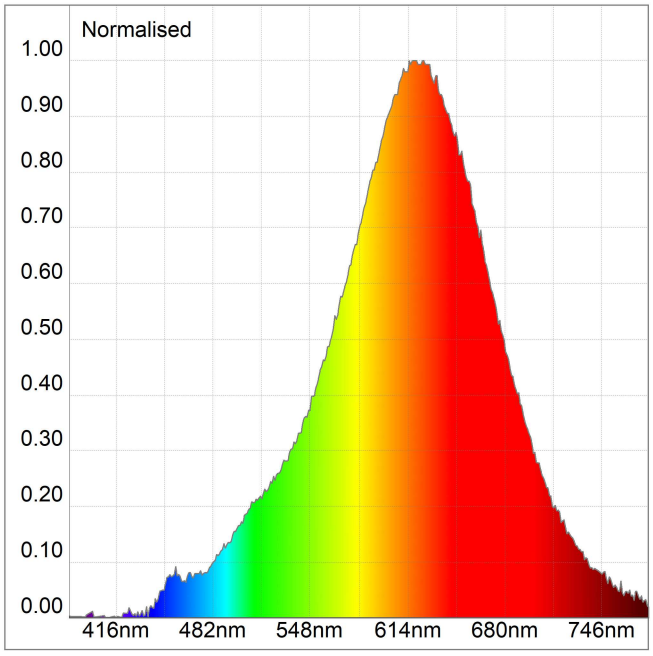
CRI8(Ra) [84.1]* CRI15(Rav) [80.0]*

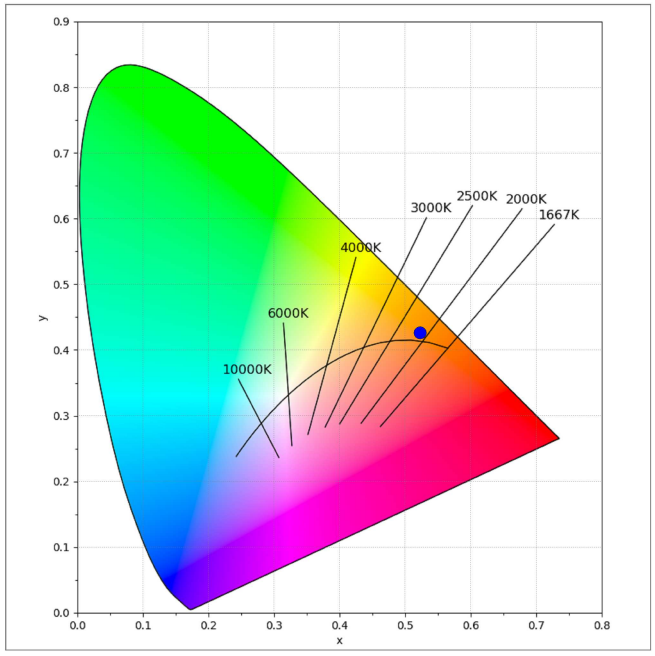
R 1: 82.3	R 2: 92.1	R 3: 96.5	R 4: 80.5	R 5: 81.7
R 6: 92.5	R 7: 84.1	R 8: 63.0	R 9: 25.4	R10: 83.1
R11: 79.3	R12: 80.9	R13: 83.9	R14: 98.9	R15: 75.4

Spectral Distribution

l(nm)	Normalised	l(nm)	Normalised	l(nm)	Normalised
383.0	0.002365	389.0	0.001912	395.0	0.005250
401.0	0.001316	407.0	0.003757	413.0	0.002072
419.0	0.000268	425.0	0.012230	431.0	0.003108
437.0	0.001797	443.0	0.027770	449.0	0.061351
455.0	0.077703	461.0	0.064730	467.0	0.074324
473.0	0.084460	479.0	0.089865	485.0	0.111486
491.0	0.131081	497.0	0.154730	503.0	0.183784
509.0	0.206757	515.0	0.213514	521.0	0.244595
527.0	0.259459	533.0	0.282432	539.0	0.318243
545.0	0.361486	551.0	0.398649	557.0	0.462838
563.0	0.507432	569.0	0.577027	575.0	0.631757
581.0	0.689189	587.0	0.756757	593.0	0.817568
599.0	0.878378	605.0	0.932432	611.0	0.972973
617.0	0.993243	623.0	0.993243	629.0	0.993243
635.0	0.972973	641.0	0.912162	647.0	0.864865
653.0	0.817568	659.0	0.743243	665.0	0.695946
671.0	0.605405	677.0	0.527027	683.0	0.471622
689.0	0.410135	695.0	0.354054	701.0	0.295270
707.0	0.255405	713.0	0.218243	719.0	0.189865
725.0	0.154054	731.0	0.128378	737.0	0.108108
743.0	0.088513	749.0	0.081757	755.0	0.060068
761.0	0.065811	767.0	0.049730	773.0	0.038243
779.0	0.022095				

Spectrum Graph

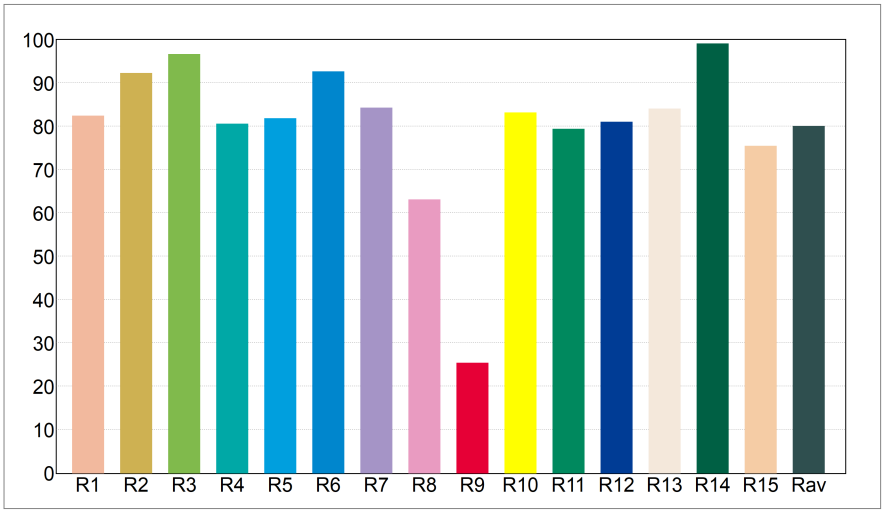


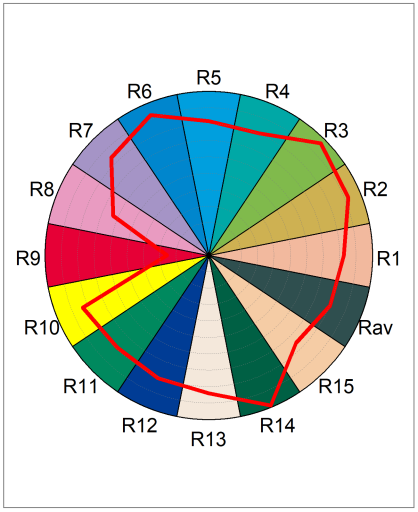


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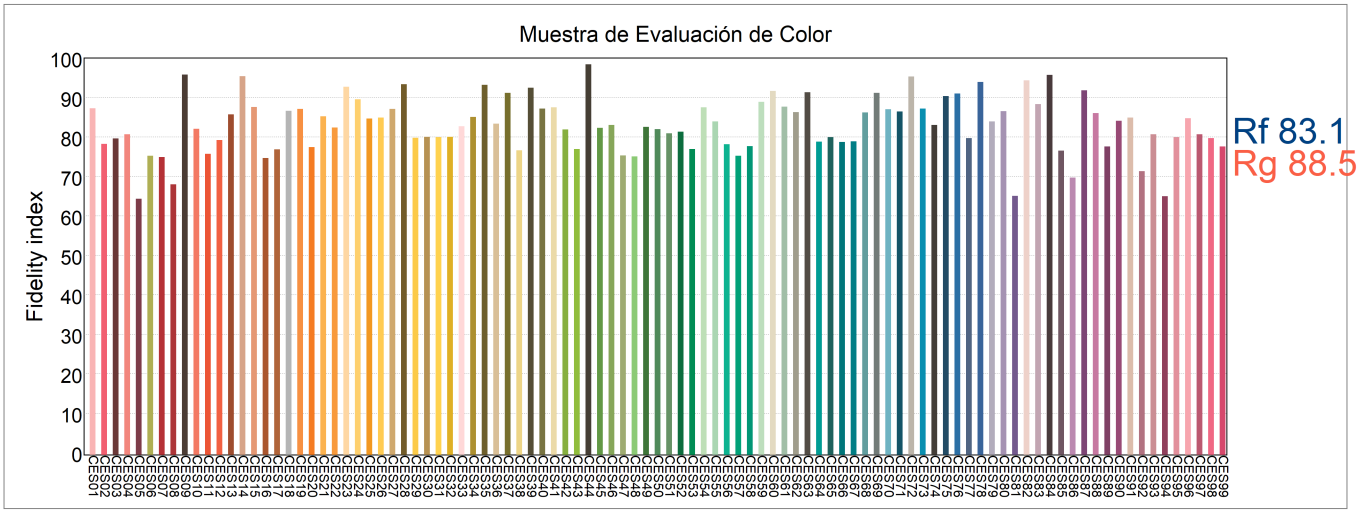
CRI Graphs



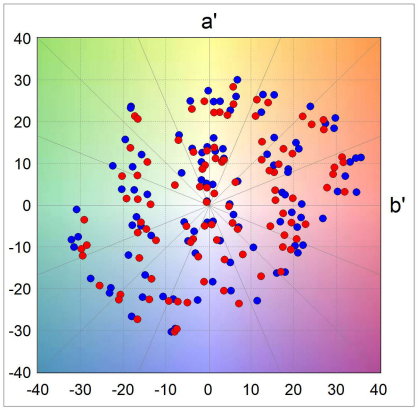


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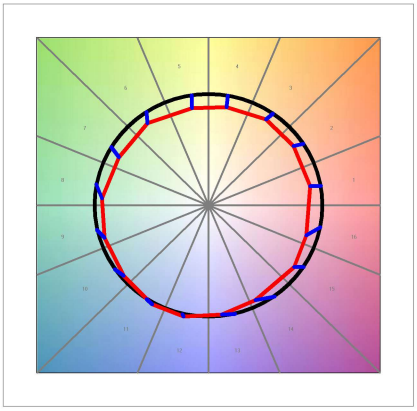
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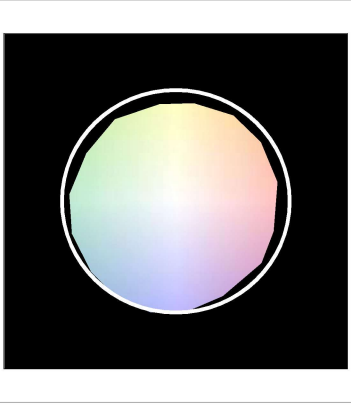
Chromatic Coordinates (a', b') 99 CES



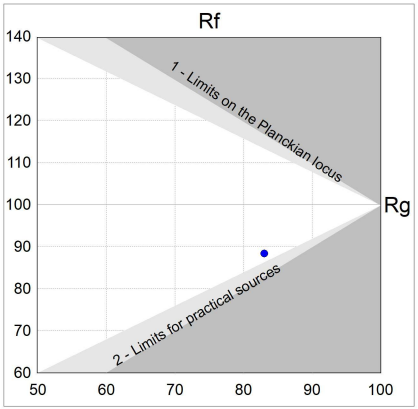
Color Vector Graphic



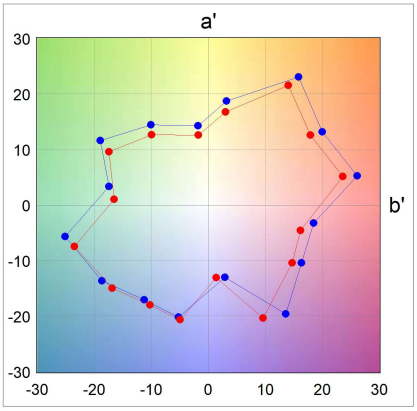
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

