Luminaire
Code 30929214xxx
Name Nans Balis S/140 Outdoor
Measurem.
Code CL092A22D0027GP
Name Nans Balis S/140 Outdoor

Luminaire Flux	1761.12 lm	Luminaire Power	41.00 W	Efficacy	42.95 lm/W	Efficiency	100.00%
Sources Flux	1761.12 lm	Maximum value	437.71 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Rectangular Luminaire	Length	1400 mm	Width	275 mm	Height	130 mm
Rectangular Luminous Area	Length	1240 mm	Width	100 mm	Height	60 mm

Horizontal Luminous Area	0.124000 m2	Emitting area on Plane 180°	0.074400 m2
Emitting area on Plane 0°	0.074400 m2	Emitting area on Plane 270°	0.006000 m2
Emitting area on Plane 90°	0.006000 m2	Glare area at 76°	0.102188 m2

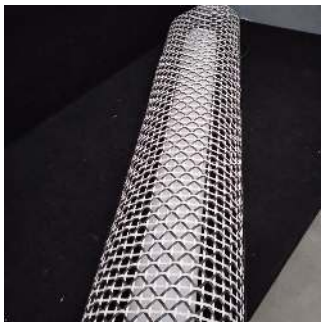
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	30-11-2022	Maximum Gamma Angle	180
Measurement Distance	6.44	Measurement Flux	1761.12 lm

Operator	Asselum T2	Rated Voltage	24.00 V
Temperature	24.90 °C	Rated Current	1.72 A
Humidity	26.20 %	Photocell	Czibula Grundmann
Notes	RM22110906		

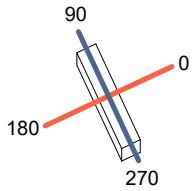
Luminaire Sources

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	LED	LED	1761.12	0.00	1

C.I.E.	41 71 89 83 100	D DIN 5040	B31
F UTE	0.83 G + 0.17 T	B NBN	BZ 5

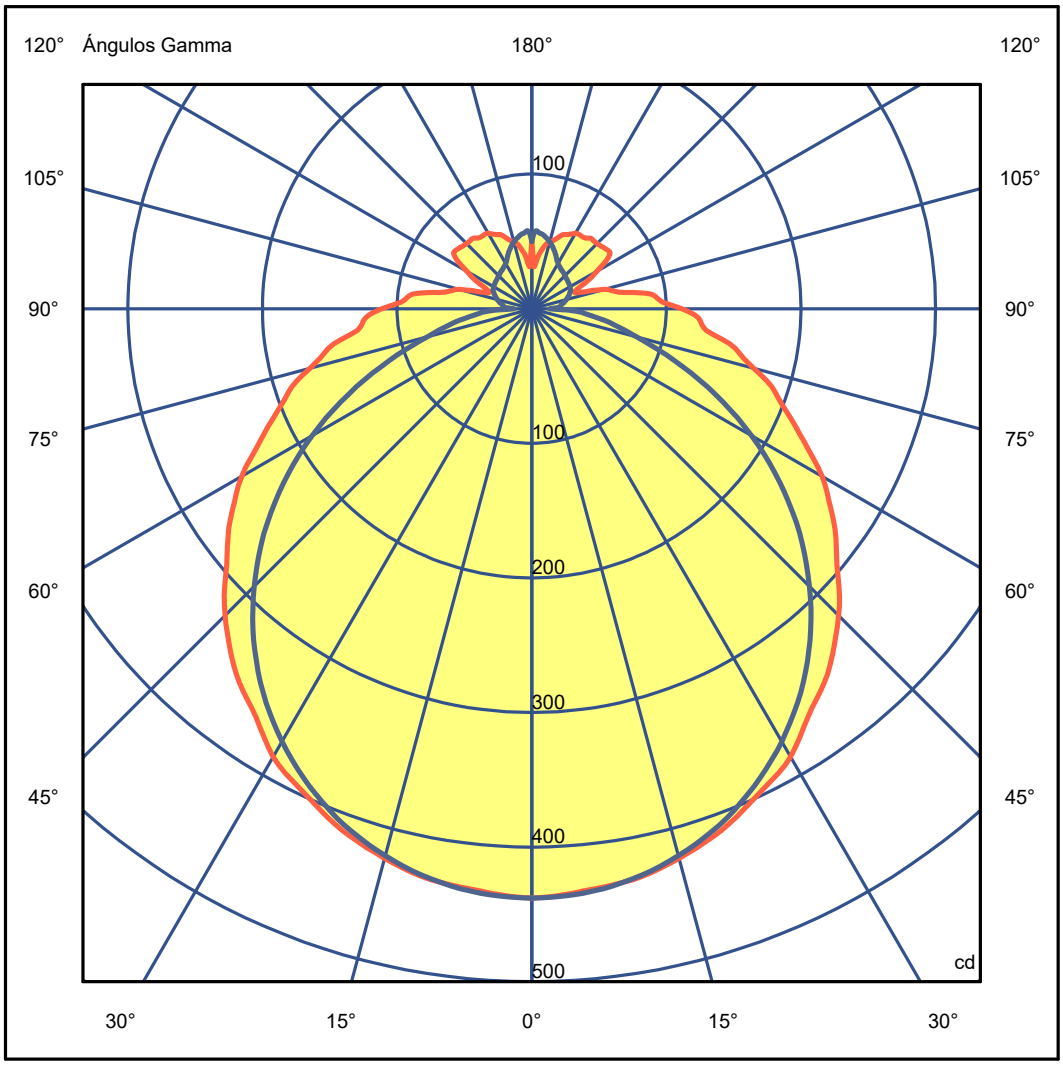


1400mm x 275mm



Semiplanos C

180.0 — 0.0
270.0 — 90.0



ULOR 17.40 %
DLOR 82.60 %
RN 17.40 %

Luminaire
Code 30929214xxx
Name Nans Balis S/140 Outdoor
Measurem.
Code CL092A22D0027GP
Name Nans Balis S/140 Outdoor

Luminaire Flux	1761.12 lm	Luminaire Power	41.00 W	Efficacy	42.95 lm/W	Efficiency	100.00%
Sources Flux	1761.12 lm	Maximum value	437.71 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

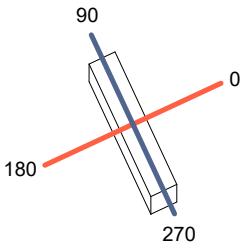
Luminous Intensity Table cd **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	437.71	437.71	437.71	437.71	437.71	437.71	437.71
G 2.5	436.54	436.89	437.35	437.19	437.20	437.22	437.27
G 5.0	434.28	435.00	435.77	436.08	436.00	435.82	435.89
G 7.5	432.57	433.02	433.58	434.15	434.08	433.48	433.53
G 10.0	430.69	430.86	430.63	430.92	431.16	430.29	430.08
G 12.5	427.27	427.49	427.45	426.83	427.09	426.34	425.92
G 15.0	422.67	423.02	423.20	422.13	421.64	421.41	420.62
G 17.5	417.64	417.93	417.93	417.00	415.67	415.66	414.68
G 20.0	412.22	412.17	411.62	410.70	409.01	408.93	407.99
G 22.5	405.20	405.43	404.30	403.52	401.80	401.06	399.91
G 25.0	397.95	398.42	397.15	395.27	393.77	392.39	391.14
G 27.5	391.72	391.57	389.72	386.53	384.82	382.62	381.61
G 30.0	384.41	382.99	381.22	377.44	374.80	372.37	371.24
G 32.5	373.05	372.94	370.84	368.24	363.88	361.07	359.97
G 35.0	362.56	362.99	360.66	358.05	352.17	349.29	348.09
G 37.5	354.42	353.69	350.43	345.62	340.14	336.62	335.06
G 40.0	344.90	343.53	339.68	333.14	328.01	323.50	321.45
G 42.5	333.62	332.23	327.68	321.21	315.55	309.42	306.88
G 45.0	322.34	320.88	315.83	309.19	301.28	294.71	291.66
G 47.5	309.73	308.31	304.08	295.92	285.79	279.38	275.88
G 50.0	295.88	294.72	290.53	281.99	270.70	262.90	259.84
G 52.5	284.90	283.27	275.96	268.36	255.98	246.27	242.33
G 55.0	273.52	271.54	263.62	253.38	241.33	229.20	224.89
G 57.5	261.11	258.28	250.70	238.36	224.70	212.30	207.01
G 60.0	248.94	245.68	236.95	223.97	208.90	195.03	188.35
G 62.5	233.51	232.02	224.57	210.04	193.47	177.12	169.60
G 65.0	219.42	216.44	209.34	195.25	176.46	159.05	150.50
G 67.5	206.68	204.53	193.99	180.93	160.63	141.15	131.46
G 70.0	195.23	193.84	180.64	165.97	145.36	124.23	113.16
G 72.5	185.25	179.43	170.07	151.72	130.85	107.80	95.84
G 75.0	170.69	168.54	157.63	139.58	116.16	92.55	80.63
G 77.5	159.32	157.41	143.30	125.69	101.12	78.08	68.86
G 80.0	149.22	142.94	134.00	115.97	89.76	66.08	58.80
G 82.5	132.56	132.49	119.59	101.26	77.54	54.74	48.25
G 85.0	126.58	124.66	107.78	93.63	67.42	44.76	39.64
G 87.5	122.19	116.04	107.43	83.31	57.95	37.05	30.83
G 90.0	111.63	106.00	94.37	75.98	51.68	30.56	13.33
G 92.5	98.91	98.48	82.29	68.64	45.61	26.22	19.85
G 95.0	93.26	89.05	80.44	57.90	36.87	23.97	21.31
G 97.5	87.25	78.62	67.00	50.97	31.72	23.66	21.79
G100.0	70.25	69.05	54.89	40.84	23.99	25.33	23.49
G102.5	61.69	60.12	51.00	34.23	25.02	27.60	25.17
G105.0	55.95	48.60	39.52	30.93	29.40	28.82	26.49
G107.5	43.59	41.61	30.54	31.17	34.91	30.38	27.81
G110.0	35.03	37.52	33.80	36.03	39.16	31.72	29.23
G112.5	34.81	37.25	38.41	42.25	39.51	33.49	30.60
G115.0	40.92	43.94	45.58	47.91	40.38	35.26	31.66
G117.5	49.04	50.29	52.86	51.32	41.15	36.14	32.34
G120.0	55.37	57.73	60.10	51.62	41.94	36.91	32.70
G122.5	64.35	64.73	63.52	50.84	43.28	37.55	33.13
G125.0	70.87	68.34	62.13	51.13	44.36	38.24	33.33
G127.5	71.40	68.71	61.28	50.68	44.59	38.68	33.66
G130.0	70.28	67.68	60.45	50.88	45.52	38.76	34.00
G132.5	69.31	67.30	59.75	52.02	46.67	38.68	34.43
G135.0	68.56	66.11	58.77	51.82	47.14	38.62	34.85
G137.5	68.25	66.27	58.36	52.53	46.47	38.62	35.41
G140.0	68.44	66.41	58.03	52.34	46.69	38.79	35.90
G142.5	66.25	65.98	56.59	53.25	46.98	39.17	36.33
G145.0	65.48	64.71	56.62	52.97	47.86	39.97	36.99
G147.5	65.51	63.73	56.29	52.88	48.69	40.96	37.80
G150.0	64.75	61.42	56.32	52.18	48.67	42.19	38.92
G152.5	62.66	59.38	55.54	51.93	48.27	43.86	40.54
G155.0	60.78	57.62	54.81	51.95	48.01	45.82	42.79
G157.5	59.48	55.81	53.72	51.65	48.31	47.90	45.11
G160.0	56.12	53.00	52.75	51.75	49.32	49.95	47.39
G162.5	53.26	50.37	51.15	51.76	50.52	51.79	49.52
G165.0	51.54	48.25	49.50	51.70	51.83	53.39	51.48
G167.5	49.29	45.67	48.28	52.37	53.31	54.70	53.21
G170.0	45.19	42.90	47.43	52.98	54.36	55.74	54.81
G172.5	40.76	40.37	47.04	52.96	54.73	56.41	56.13
G175.0	34.45	39.70	47.05	52.92	54.93	56.91	57.00
G177.5	32.22	40.21	47.38	52.71	55.09	57.26	57.89
G180.0	50.09	50.09	50.09	50.09	50.09	50.09	50.09

Luminaire
Code 30929214xxx
Name Nans Balis S/140 Outdoor
Measurem.
Code CL092A22D0027GP
Name Nans Balis S/140 Outdoor

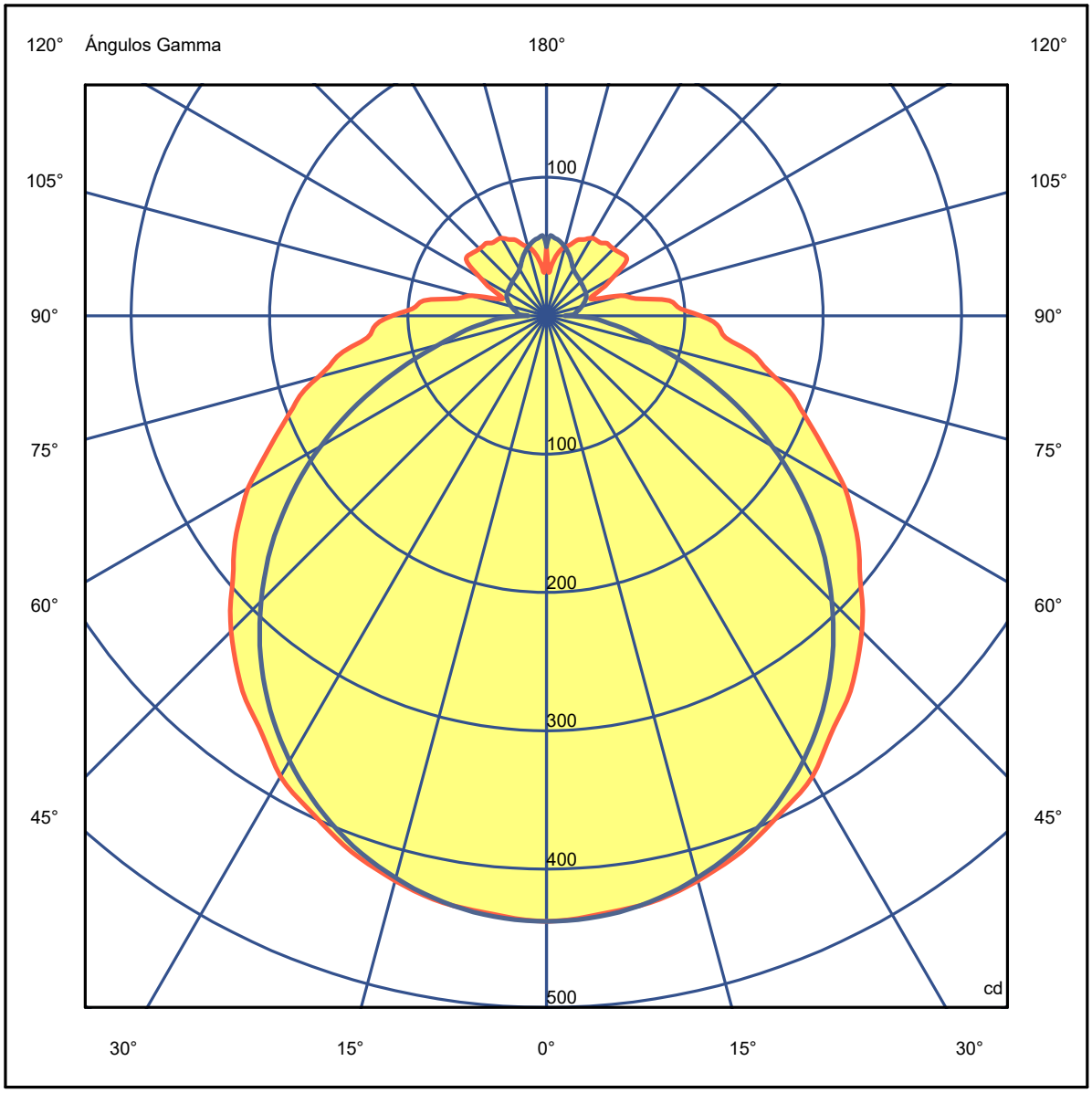
Luminaire Flux	1761.12 lm	Luminaire Power	41.00 W	Efficacy	42.95 lm/W	Efficiency	100.00%
Sources Flux	1761.12 lm	Maximum value	437.71 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

1400mm x 275mm



Semiplanos C





Luminaire
Code 30929214xxx
Name Nans Balis S/140 Outdoor
Measurem.
Code CL092A22D0027GP
Name Nans Balis S/140 Outdoor

Luminaire Flux	1761.12 lm	Luminaire Power	41.00 W	Efficacy	42.95 lm/W	Efficiency	100.00%
Sources Flux	1761.12 lm	Maximum value	437.71 cd	Position	C=0.00 G=0.00	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	14.3	15.5	14.8	16.0	16.6	14.3	15.5	14.8	16.0	16.6
x=2H y=3H	16.0	17.1	16.6	17.7	18.3	15.7	16.8	16.3	17.3	18.0
x=2H y=4H	16.9	17.9	17.5	18.5	19.1	16.3	17.3	16.8	17.8	18.5
x=2H y=6H	17.7	18.6	18.3	19.2	19.9	16.7	17.7	17.3	18.2	18.9
x=2H y=8H	18.1	19.0	18.7	19.6	20.2	16.9	17.8	17.5	18.4	19.1
x=2H y=12H	18.4	19.3	19.0	19.9	20.6	17.1	18.0	17.7	18.6	19.3
x=4H y=2H	14.9	15.9	15.5	16.5	17.1	14.9	15.9	15.5	16.5	17.1
x=4H y=3H	16.8	17.7	17.5	18.3	19.0	16.5	17.4	17.1	18.0	18.7
x=4H y=4H	17.9	18.6	18.5	19.3	20.0	17.2	17.9	17.8	18.6	19.3
x=4H y=6H	18.8	19.5	19.5	20.2	20.9	17.7	18.4	18.4	19.1	19.8
x=4H y=8H	19.3	19.9	20.0	20.6	21.4	18.0	18.6	18.7	19.3	20.1
x=4H y=12H	19.7	20.3	20.4	21.0	21.8	18.2	18.8	18.9	19.5	20.3
x=8H y=4H	18.2	18.8	18.8	19.5	20.2	17.5	18.2	18.2	18.9	19.6
x=8H y=6H	19.3	19.9	20.1	20.6	21.4	18.3	18.8	19.0	19.5	20.3
x=8H y=8H	19.9	20.4	20.7	21.1	21.9	18.6	19.1	19.4	19.8	20.6
x=8H y=12H	20.5	21.0	21.3	21.7	22.5	19.0	19.4	19.7	20.1	21.0
x=12H y=4H	18.5	19.1	19.2	19.7	20.5	18.4	18.9	19.1	19.6	20.4
x=12H y=6H	19.6	20.1	20.4	20.8	21.6	19.0	19.5	19.8	20.2	21.0
x=12H y=8H	20.3	20.7	21.0	21.4	22.2	19.4	19.8	20.1	20.5	21.4

Luminaire
Code 30929214xxx
Name Nans Balis S/140 Outdoor
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Code CL092A22D0027GP
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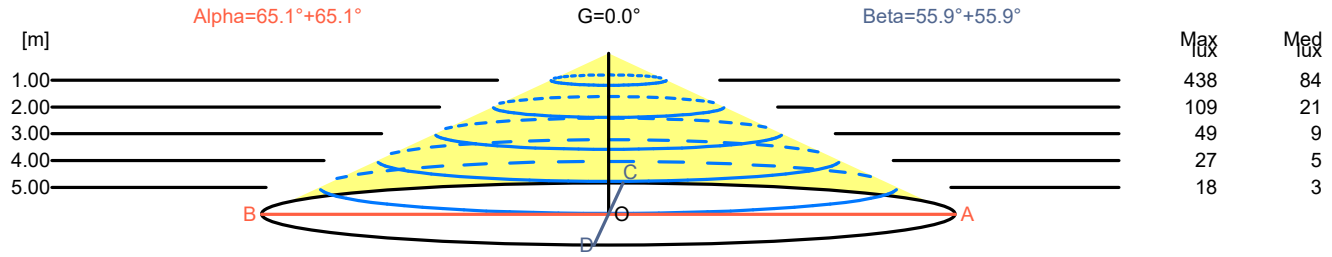
Luminaire Flux	1761.12 lm	Luminaire Power	41.00 W	Efficacy	42.95 lm/W	Efficiency	100.00%
Sources Flux	1761.12 lm	Maximum value	437.71 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Width at 50.00 % of Max Intensity

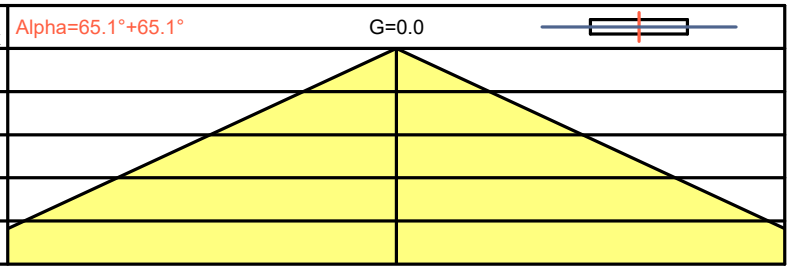
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	2.16	4.31	6.47	8.62	10.78	OC	1.47	2.95	4.42	5.90	7.37
OB	2.16	4.31	6.47	8.62	10.78	OD	1.47	2.95	4.42	5.90	7.37

Luminous Intensities [cd]

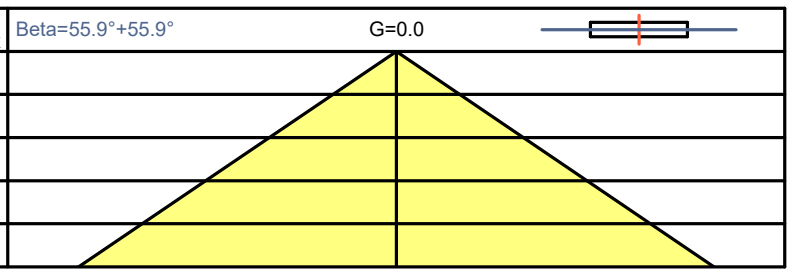
	0	5	15	25	35	45	55	65	75	85
OA	437.71	434.28	422.67	397.95	362.56	322.34	273.52	219.42	170.69	126.58
OB	437.71	434.28	422.67	397.95	362.56	322.34	273.52	219.42	170.69	126.58
OC	437.71	435.89	420.62	391.14	348.09	291.66	224.89	150.50	80.63	39.64
OD	437.71	435.89	420.62	391.14	348.09	291.66	224.89	150.50	80.63	39.64



H[m]	D[m]	Max lux	Med lux
1.00	4.31	438	84
2.00	8.62	109	21
3.00	12.93	49	9
4.00	17.24	27	5
5.00	21.55	18	3



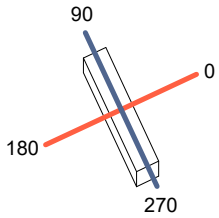
H[m]	D[m]	Max lux	Med lux
1.00	2.95	438	84
2.00	5.90	109	21
3.00	8.85	49	9
4.00	11.80	27	5
5.00	14.75	18	3



Luminaire
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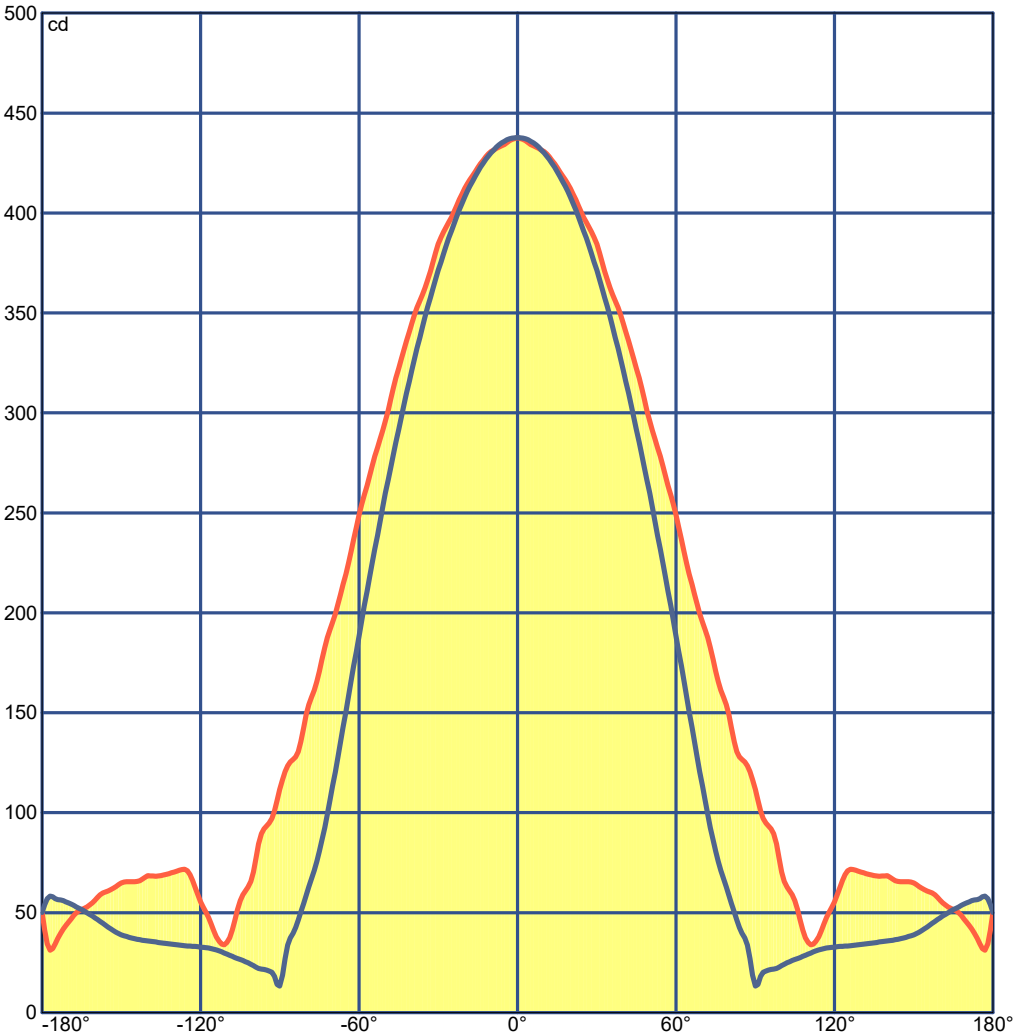
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Sources Flux	1761.12 lm	Maximum value	437.71 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

1400mm x 275mm



Semiplanos C





Luminaire
Code 30929214xxx
Name Nans Balis S/140 Outdoor
Measurem.
Code CL092A22D0027GP
Name Nans Balis S/140 Outdoor

Luminaire Flux	1761.12 lm	Luminaire Power	41.00 W	Efficacy	42.95 lm/W	Efficiency	100.00%
Sources Flux	1761.12 lm	Maximum value	437.71 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Flujo Total=1761.12 Flujo Luminaria=1761.12

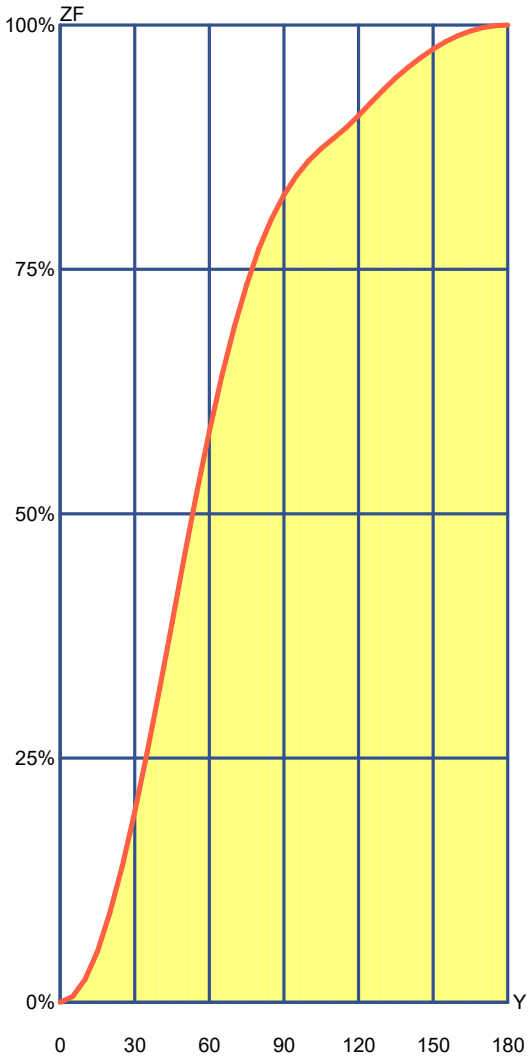
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.27	0.34	0.41	0.48	0.53	0.62	0.68	0.72	0.77	0.81	0.89	0.94
RC	6	6	6	6	6	6	6	6	7	7	7	7

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)	24	91	195	321	456	584	691	771	826	861	884	907	934	957	975	989	997	1000

Códigos de Flujo C.I.E.
41 71 89 83 100

C.I.E.	6/6/6/6/6/6/6/7/7/7/7	LOR	100.00000 %
D DIN 5040	B31	ULOR	17.40389 %
F UTE	0.83 G + 0.17 T	DLOR	82.59611 %
B NBN	BZ 5	UFF	17.40389 %
RN	17.40389 %	DFF	82.59611 %
BLF	1.0	FFR	21.07107 %



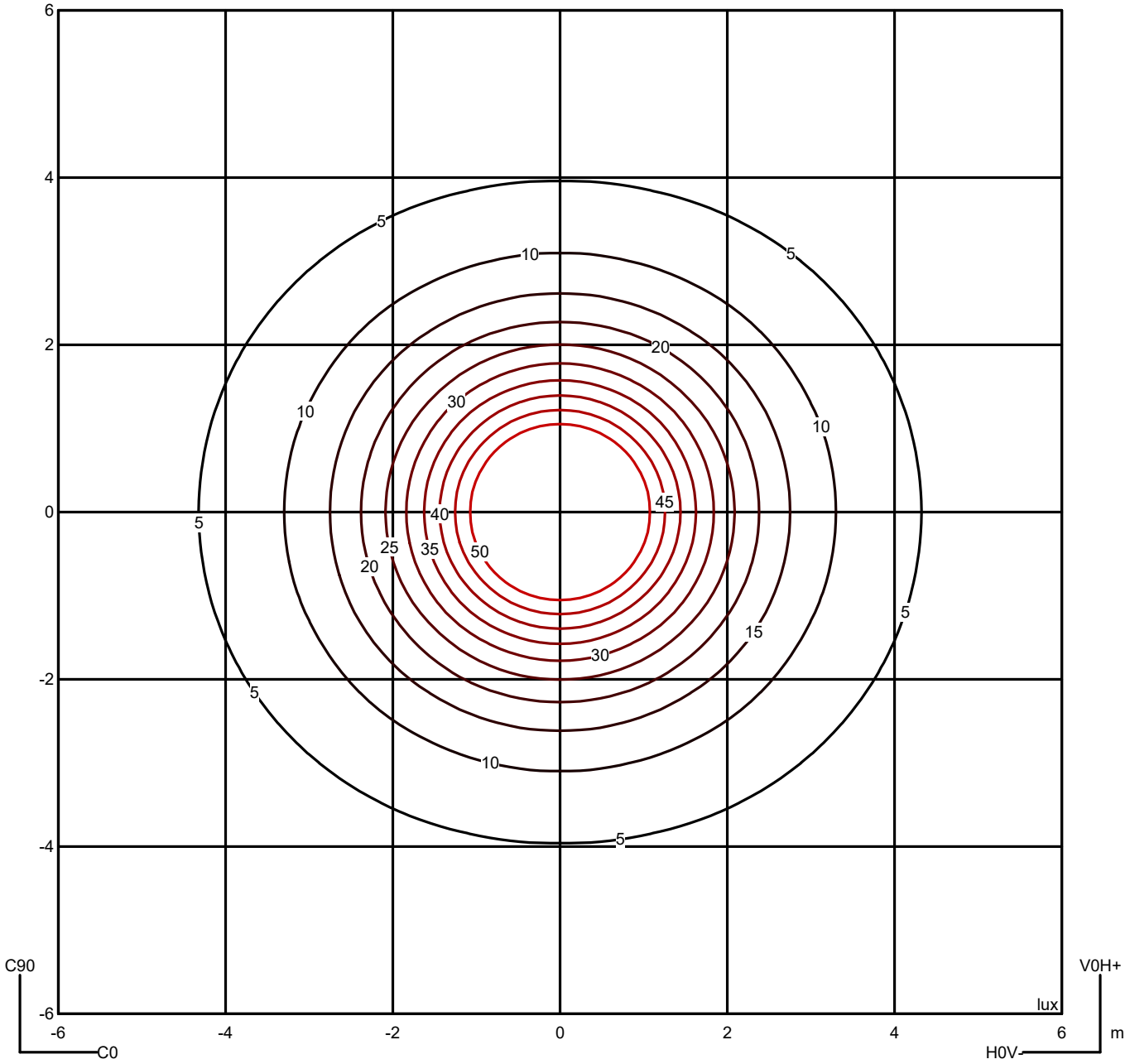
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	5.93	5.93	0.59 %	0.59 %
10°	17.60	23.53	1.76 %	2.35 %
15°	28.73	52.26	2.87 %	5.23 %
20°	38.96	91.22	3.90 %	9.12 %
25°	47.97	139.19	4.80 %	13.92 %
30°	55.56	194.75	5.56 %	19.47 %
35°	61.37	256.12	6.14 %	25.61 %
40°	65.35	321.47	6.54 %	32.15 %
45°	67.45	388.93	6.75 %	38.89 %
50°	67.47	456.40	6.75 %	45.64 %
55°	65.55	521.95	6.55 %	52.19 %
60°	62.04	583.98	6.20 %	58.40 %
65°	56.90	640.88	5.69 %	64.09 %
70°	50.38	691.26	5.04 %	69.13 %
75°	43.59	734.85	4.36 %	73.48 %
80°	36.61	771.46	3.66 %	77.15 %
85°	29.90	801.36	2.99 %	80.14 %
90°	24.60	825.96	2.46 %	82.60 %
95°	19.80	845.76	1.98 %	84.58 %
100°	15.68	861.44	1.57 %	86.14 %
105°	12.19	873.63	1.22 %	87.36 %
110°	10.36	883.98	1.04 %	88.40 %
115°	10.86	894.85	1.09 %	89.48 %
120°	12.49	907.34	1.25 %	90.73 %
125°	13.41	920.75	1.34 %	92.07 %
130°	13.01	933.76	1.30 %	93.38 %
135°	12.07	945.83	1.21 %	94.58 %
140°	11.01	956.84	1.10 %	95.68 %
145°	9.90	966.74	0.99 %	96.67 %
150°	8.74	975.48	0.87 %	97.55 %
155°	7.45	982.93	0.74 %	98.29 %
160°	6.14	989.07	0.61 %	98.91 %
165°	4.79	993.86	0.48 %	99.39 %
170°	3.43	997.29	0.34 %	99.73 %
175°	2.03	999.33	0.20 %	99.93 %
180°	0.67	1000.00	0.07 %	100.00 %

Luminaire
Code 30929214xxx
Name Nans Balis S/140 Outdoor
Measurem.
Code CL092A22D0027GP
Name Nans Balis S/140 Outdoor

Luminaire Flux	1761.12 lm	Luminaire Power	41.00 W	Efficacy	42.95 lm/W	Efficiency	100.00%
Sources Flux	1761.12 lm	Maximum value	437.71 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

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



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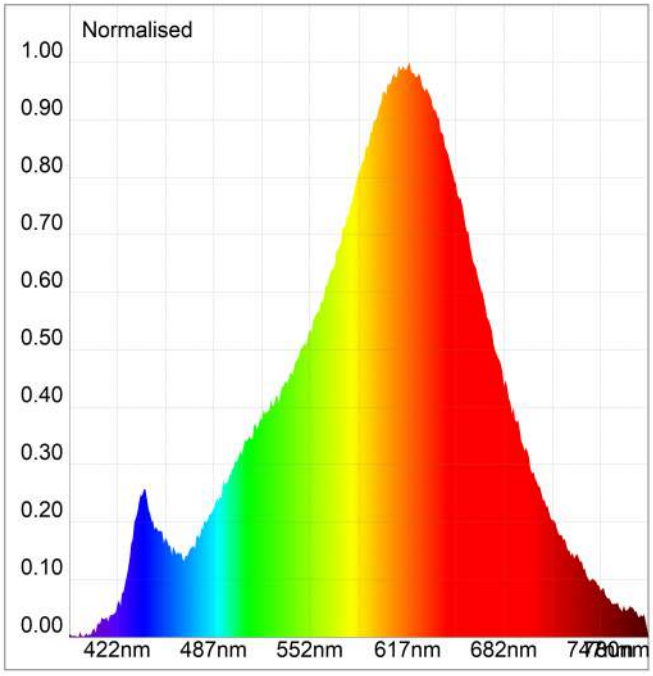
Spectral Data

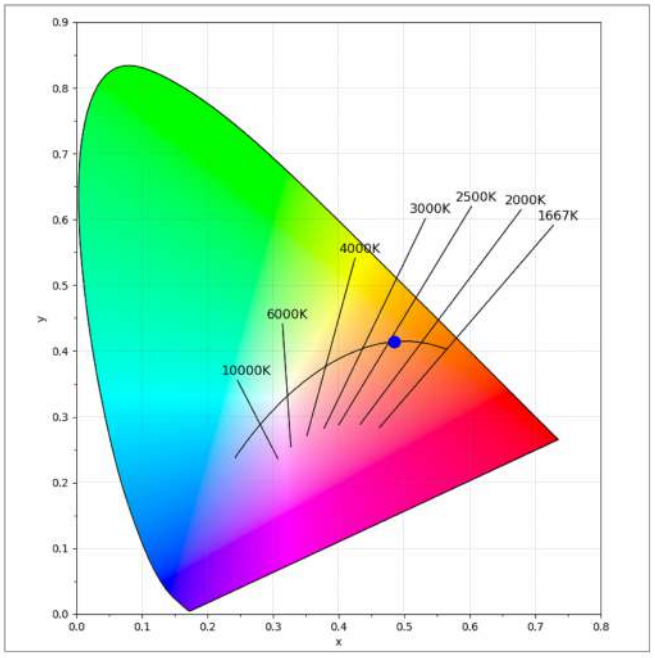
CIE1931	x =0.485827	y =0.413287	Color rendering index (CRI)	CRI8(Ra) 91.4		CRI15(Rav) 88.9		
CIE1960	u =0.278101	v =0.354865	Color Rendering Components	R 1: 91.7	R 2: 97.2	R 3: 97.7	R 4: 90.9	R 5: 92.0
CIE1976	u'=0.278101	v'=0.532297		R 6: 97.4	R 7: 88.3	R 8: 75.8	R 9: 50.8	R10: 93.0
D(u,v)	0.00046		S/P ratio = 1.13225	R11: 92.6	R12: 87.4	R13: 93.3	R14: 99.7	R15: 86.2
			CCT = 2394 K	M/P Well = 0.41119				

Spectral Distribution

l(nm)	Normalised	l(nm)	Normalised	l(nm)	Normalised
390.0	0.005199	396.0	0.002695	402.0	0.002029
408.0	0.000542	414.0	0.009103	420.0	0.005917
426.0	0.024679	432.0	0.026859	438.0	0.057756
444.0	0.105769	450.0	0.207692	456.0	0.257692
462.0	0.186538	468.0	0.162821	474.0	0.157692
480.0	0.135256	486.0	0.157051	492.0	0.188462
498.0	0.214103	504.0	0.244872	510.0	0.278846
516.0	0.312179	522.0	0.343590	528.0	0.360897
534.0	0.391026	540.0	0.418590	546.0	0.445513
552.0	0.472436	558.0	0.510897	564.0	0.550000
570.0	0.583333	576.0	0.640385	582.0	0.685897
588.0	0.750000	594.0	0.807692	600.0	0.858974
606.0	0.916667	612.0	0.961538	618.0	0.974359
624.0	0.987179	630.0	0.974359	636.0	0.948718
642.0	0.916667	648.0	0.871795	654.0	0.807692
660.0	0.750000	666.0	0.666667	672.0	0.605128
678.0	0.542949	684.0	0.481410	690.0	0.415385
696.0	0.377564	702.0	0.323718	708.0	0.270513
714.0	0.227564	720.0	0.198077	726.0	0.171154
732.0	0.136538	738.0	0.117949	744.0	0.101923
750.0	0.082692	756.0	0.059744	762.0	0.048205
768.0	0.053782	774.0	0.033590	780.0	0.033141

Spectrum Graph

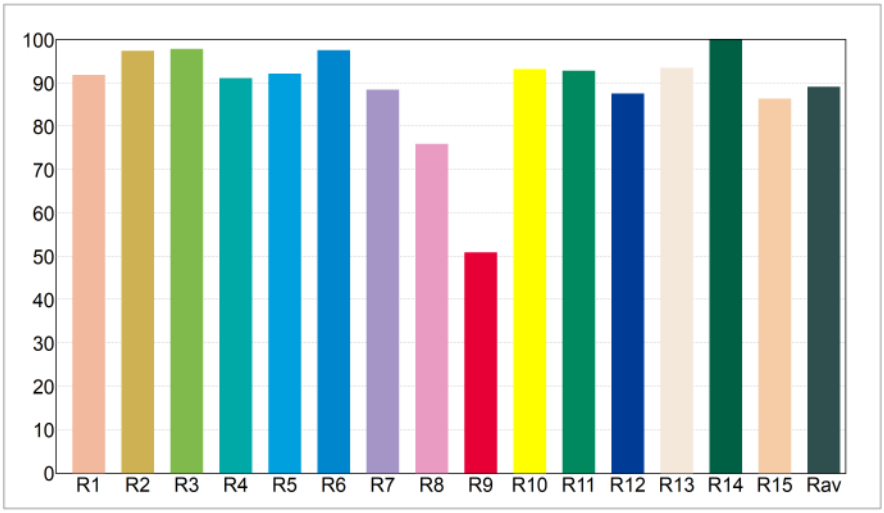


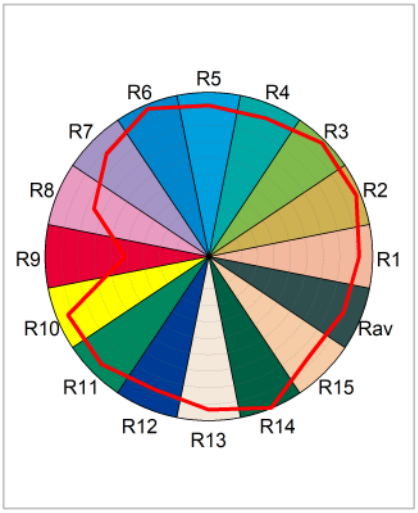


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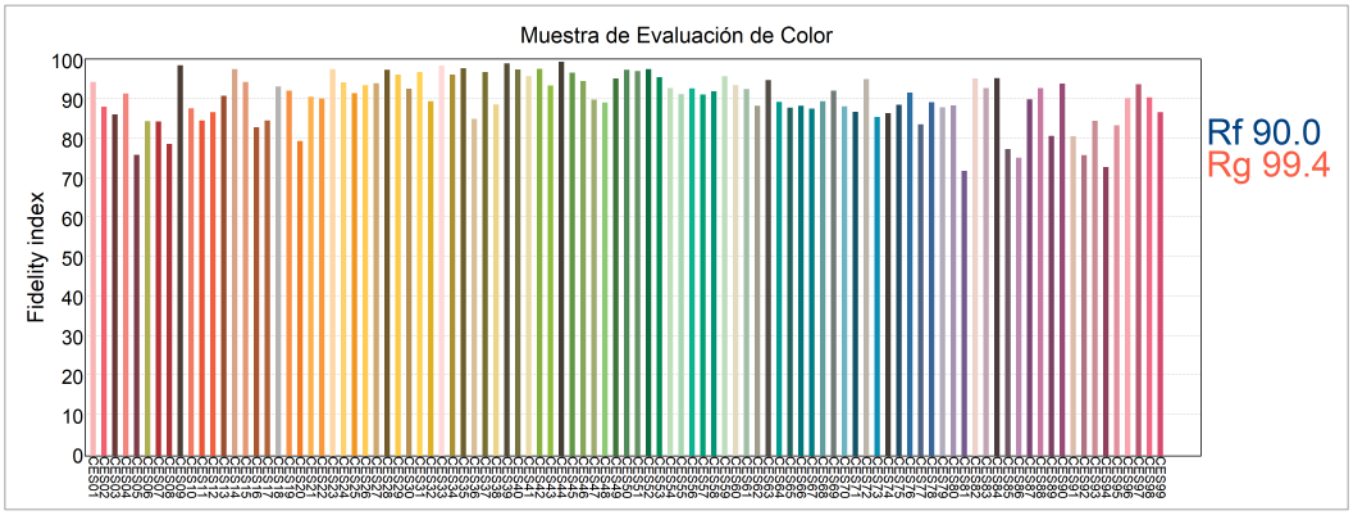
CRI Graphs



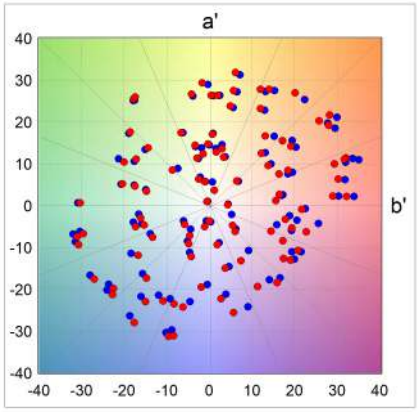


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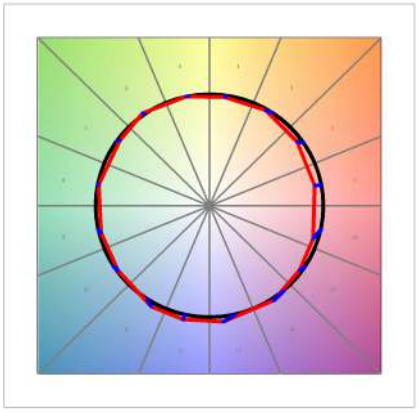
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Chromatic Coordinates (a', b') 99 CES



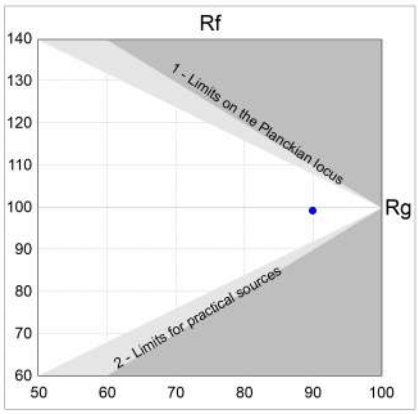
Color Vector Graphic



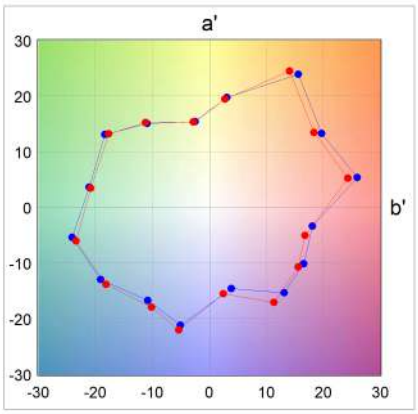
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

