Luminaria
Código 36502012357
Nombre FANALET A02 TRIAC INDIRECT
Ensayo
Código CL092A24D018GP
Nombre FANALET A02 TRIAC INDIRECT

Flujo Luminaria	303 lm	Potencia Luminaria	12.6 W	Eficacia	24.048 lm/W	Eficiencia	100.00%
Flujo Fuente	303 lm	Valor Máximo	79.46 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico

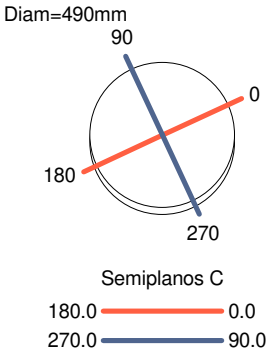
Luminaria Redonda	Diam. 490 mm	Altura	170 mm
Área Luminosa Redonda	Diam. 200 mm	Altura	0 mm
Área Luminosa Horizontal	0.031416 m2	Área Emisión sobre Pl. 180°	0.000000 m2
Área Emisión sobre Pl. 0°	0.000000 m2	Área Emisión sobre Pl. 270°	0.000000 m2
Área Emisión sobre Pl. 90°	0.000000 m2	Área de deslumbramiento a 76°	0.007600 m2
Sist. de Coorden.	CG	Tipo de Simetría	Bisimétrico
Fecha	26-11-2024	Máximo Ángulo Gamma	90
Distancia de Ensayo	6.49	Flujo de Ensayo	303 lm
Operador	Asselum T2	Tensión Nominal	230.19 V
Temperatura	24.80 °C	Corriente Nominal	0.06 A
Humedad	39.80 %	Fotocélula	Czibula Grundmann
Notas	RM24111406		

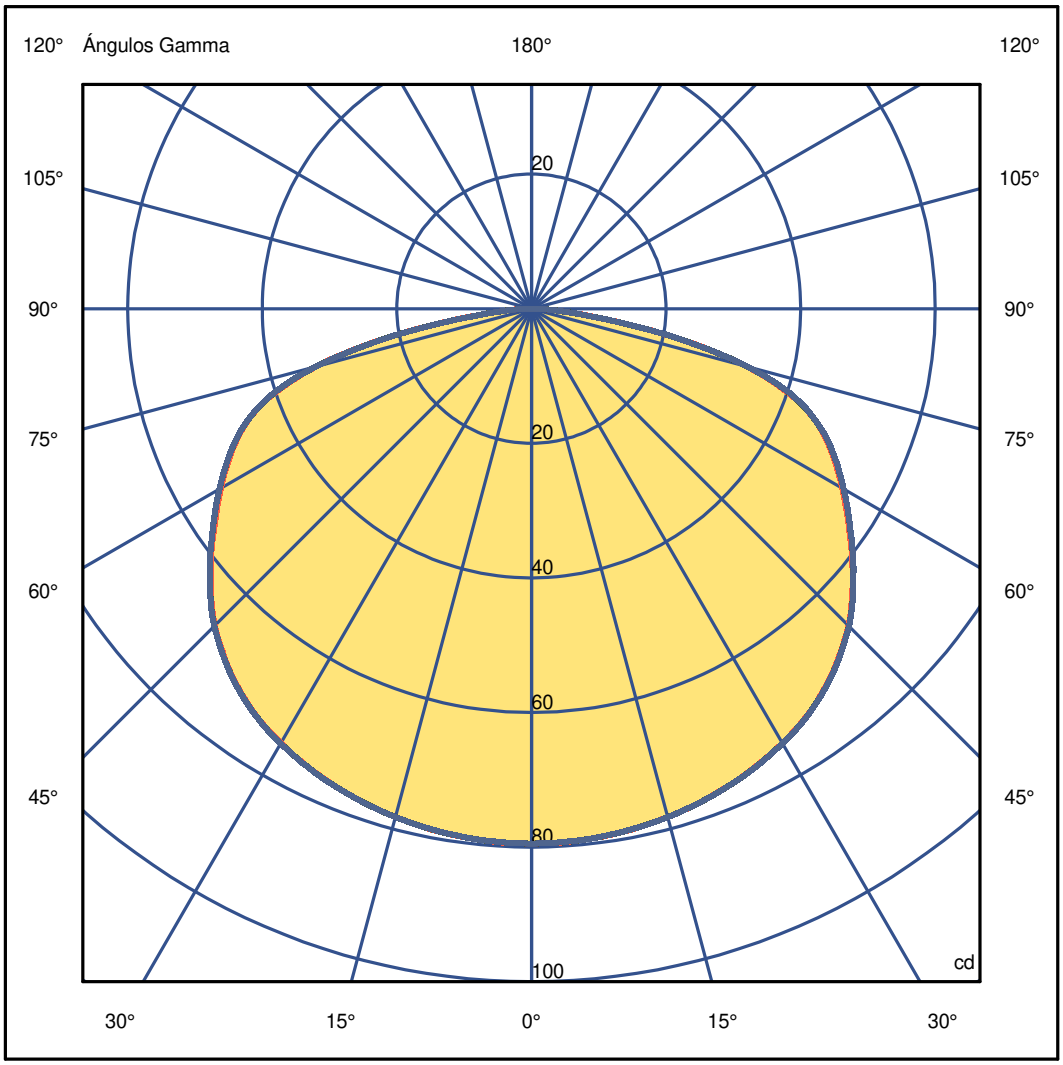
Fuentes de luz de la Luminaria

Familia	Código	Nombre	Flujo [lm]	Pot. [W]	Cant.
	2836 LM281B+PRO (VK)	LED	303.00	12.60	1

C.I.E.	39 70 94 100 100	D DIN 5040	A20
F UTE	1.00 G	B NBN	BZ 6 / 0.8 / BZ 5







ULOR 0.00 %
DLOR100.00 %
RN 0.00 %

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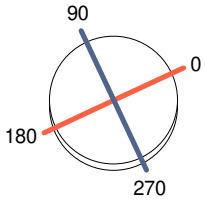
Tabla de Intensidad Luminosa cd **Tabla 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	79.46	79.46	79.46	79.46	79.46	79.46	79.46
G 2.5	79.44	79.42	79.41	79.42	79.43	79.42	79.43
G 5.0	79.32	79.30	79.30	79.31	79.31	79.31	79.30
G 7.5	79.14	79.12	79.11	79.11	79.12	79.13	79.12
G 10.0	78.88	78.86	78.85	78.87	78.86	78.87	78.86
G 12.5	78.56	78.54	78.53	78.54	78.56	78.56	78.56
G 15.0	78.18	78.16	78.16	78.16	78.17	78.18	78.18
G 17.5	77.74	77.73	77.73	77.74	77.74	77.75	77.74
G 20.0	77.25	77.23	77.22	77.25	77.25	77.24	77.26
G 22.5	76.67	76.67	76.67	76.67	76.68	76.70	76.70
G 25.0	76.05	76.04	76.04	76.05	76.07	76.07	76.07
G 27.5	75.33	75.33	75.33	75.36	75.37	75.37	75.37
G 30.0	74.54	74.54	74.54	74.57	74.56	74.59	74.57
G 32.5	73.66	73.66	73.64	73.68	73.70	73.70	73.71
G 35.0	72.64	72.59	72.61	72.64	72.66	72.67	72.67
G 37.5	71.34	71.32	71.34	71.38	71.40	71.41	71.42
G 40.0	69.95	69.91	69.91	69.94	69.98	70.00	70.00
G 42.5	68.30	68.32	68.34	68.37	68.42	68.41	68.40
G 45.0	66.61	66.56	66.58	66.67	66.67	66.69	66.69
G 47.5	64.53	64.52	64.56	64.64	64.63	64.68	64.67
G 50.0	62.29	62.33	62.36	62.42	62.42	62.46	62.42
G 52.5	60.04	60.02	60.04	60.14	60.17	60.19	60.21
G 55.0	57.68	57.73	57.76	57.90	57.90	57.93	57.90
G 57.5	55.46	55.50	55.52	55.61	55.65	55.70	55.73
G 60.0	53.33	53.33	53.37	53.49	53.47	53.52	53.55
G 62.5	51.17	51.18	51.23	51.31	51.32	51.38	51.39
G 65.0	48.96	48.97	48.98	49.10	49.10	49.17	49.15
G 67.5	46.49	46.46	46.47	46.56	46.55	46.61	46.61
G 70.0	43.37	43.37	43.29	43.39	43.39	43.44	43.44
G 72.5	39.00	39.08	38.93	39.05	38.97	39.06	39.22
G 75.0	33.23	33.27	33.04	33.17	33.09	33.19	33.26
G 77.5	25.75	25.88	25.64	25.71	25.61	25.77	25.76
G 80.0	17.35	17.50	17.17	17.45	17.35	17.43	17.41
G 82.5	9.97	9.78	9.80	9.90	9.80	9.89	9.91
G 85.0	5.21	5.15	5.14	5.19	5.11	5.26	5.22
G 87.5	2.62	2.62	2.55	2.57	2.53	2.60	2.61
G 90.0	0.75	0.74	0.71	0.76	0.73	0.75	0.75

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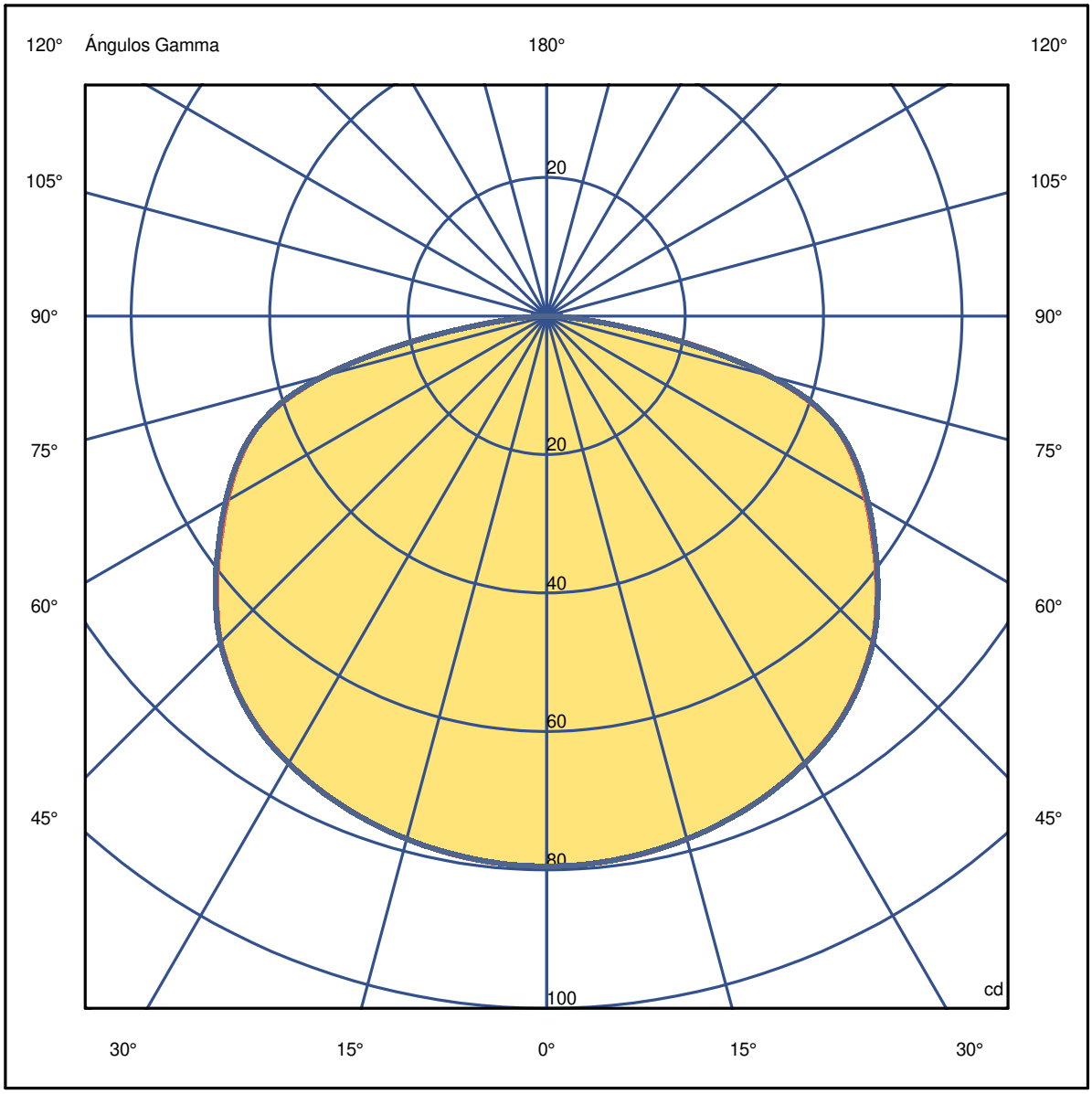
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Flujo Fuente	303 lm	Valor Máximo	79.46 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico

Diam=490mm



Semiplanos C

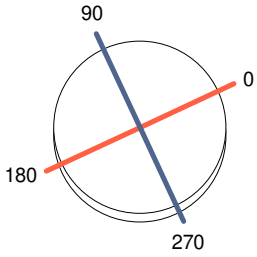




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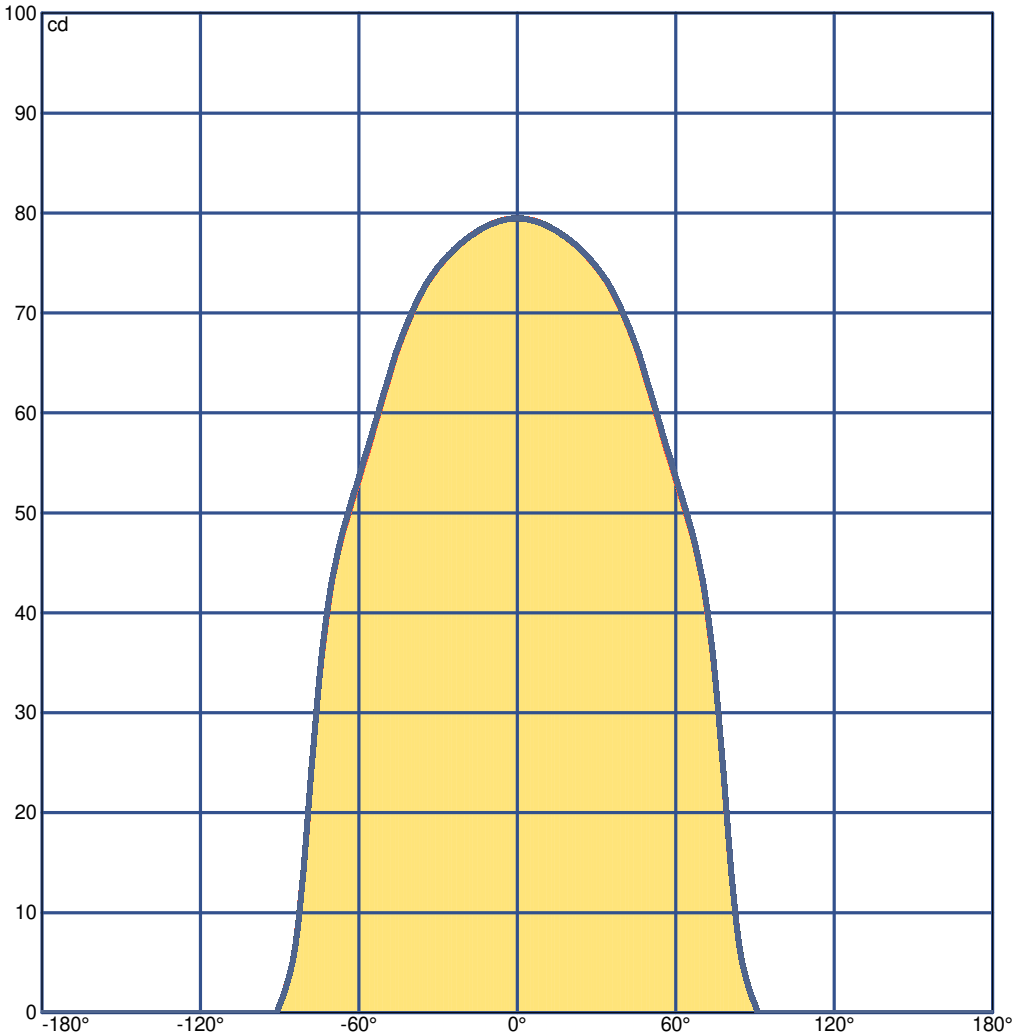
Flujo Luminaria	303 lm	Potencia Luminaria	12.6 W	Eficacia	24.048 lm/W	Eficiencia	100.00%
Flujo Fuente	303 lm	Valor Máximo	79.46 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico

Diam=490mm



Semiplanos C





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Flujo Fuente	303 lm	Valor Máximo	79.46 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico

UGR
S = 0.250

Reflectancias										
Techo/Cavidad	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Paredes	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
PDT	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Dimensiones del Loca	Vista Lateral					Vista Longitudinal				
x=2H y=2H	17.0	18.5	17.4	18.7	19.0	17.1	18.5	17.4	18.8	19.0
x=2H y=3H	19.5	20.8	19.8	21.1	21.4	19.5	20.8	19.8	21.1	21.4
x=2H y=4H	20.5	21.8	20.9	22.1	22.4	20.6	21.8	20.9	22.1	22.4
x=2H y=6H	21.2	22.4	21.6	22.7	23.0	21.2	22.4	21.6	22.7	23.0
x=2H y=8H	21.3	22.4	21.7	22.8	23.1	21.3	22.5	21.7	22.8	23.1
x=2H y=12H	21.4	22.4	21.7	22.8	23.1	21.4	22.4	21.7	22.8	23.1
x=4H y=2H	18.0	19.2	18.3	19.5	19.8	18.0	19.3	18.4	19.5	19.8
x=4H y=3H	20.6	21.7	21.0	22.0	22.4	20.6	21.7	21.0	22.0	22.4
x=4H y=4H	21.8	22.7	22.2	23.1	23.5	21.8	22.8	22.2	23.1	23.5
x=4H y=6H	22.5	23.4	23.0	23.8	24.2	22.5	23.4	23.0	23.8	24.2
x=4H y=8H	22.7	23.5	23.1	23.9	24.3	22.7	23.5	23.1	23.9	24.3
x=4H y=12H	22.8	23.5	23.2	23.9	24.3	22.8	23.5	23.2	23.9	24.3
x=8H y=4H	22.2	23.0	22.7	23.4	23.8	22.2	23.0	22.7	23.4	23.8
x=8H y=6H	23.1	23.7	23.6	24.2	24.6	23.1	23.7	23.6	24.2	24.6
x=8H y=8H	23.3	23.8	23.8	24.3	24.8	23.3	23.8	23.8	24.3	24.8
x=8H y=12H	23.4	23.9	23.9	24.4	24.8	23.4	23.9	23.9	24.4	24.9
x=12H y=4H	22.3	23.0	22.7	23.4	23.8	22.3	23.0	22.7	23.4	23.8
x=12H y=6H	23.1	23.7	23.6	24.1	24.6	23.1	23.7	23.6	24.2	24.6
x=12H y=8H	23.4	23.8	23.9	24.3	24.8	23.4	23.9	23.9	24.3	24.8

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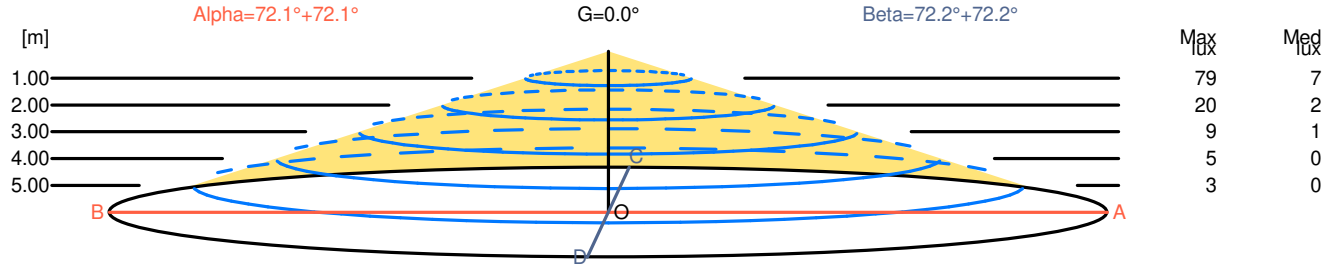
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Flujo Fuente	303 lm	Valor Máximo	79.46 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico

Apertura a 50.00 % de Max Intensidad

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	3.10	6.20	9.30	12.40	15.50	OC	3.12	6.24	9.36	12.48	15.60
OB	3.10	6.20	9.30	12.40	15.50	OD	3.12	6.24	9.36	12.48	15.60

Intensidades Luminosas [cd]

	0	5	15	25	35	45	55	65	75	85
OA	79.46	79.32	78.18	76.05	72.64	66.61	57.68	48.96	33.23	5.21
OB	79.46	79.32	78.18	76.05	72.64	66.61	57.68	48.96	33.23	5.21
OC	79.46	79.30	78.18	76.07	72.67	66.69	57.90	49.15	33.26	5.22
OD	79.46	79.30	78.18	76.07	72.67	66.69	57.90	49.15	33.26	5.22



H[m]	D[m]	Max lux	Med lux	Alpha=72.1°+72.1° G=0.0
1.00	6.20	79	7	
2.00	12.40	20	2	
3.00	18.60	9	1	
4.00	24.80	5	0	
5.00	31.00	3	0	

H[m]	D[m]	Max lux	Med lux	Beta=72.2°+72.2° G=0.0
1.00	6.24	79	7	
2.00	12.48	20	2	
3.00	18.72	9	1	
4.00	24.96	5	0	
5.00	31.20	3	0	

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Flujo Total=303.00 Flujo Luminaria=303.00

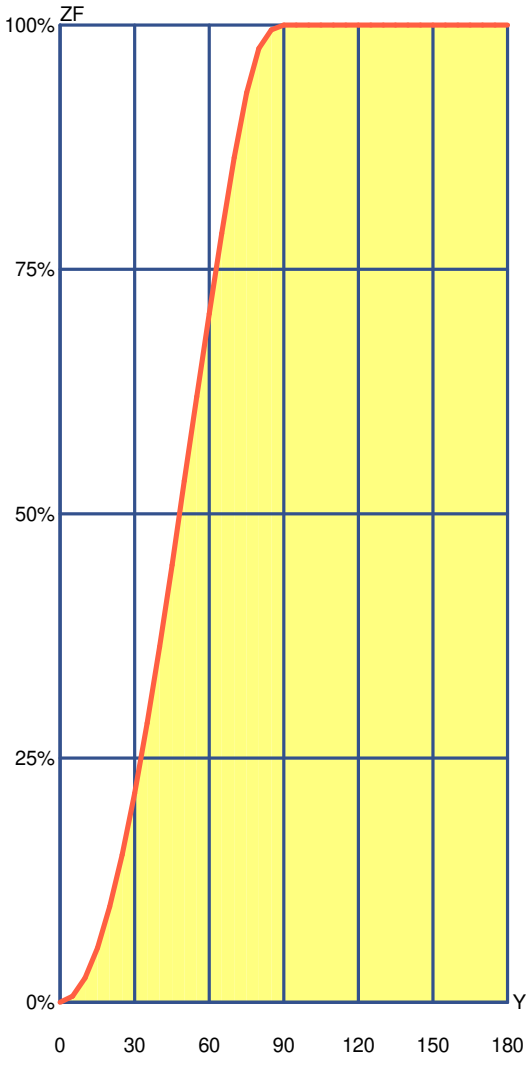
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.25	0.33	0.40	0.47	0.53	0.62	0.69	0.73	0.80	0.83	0.92	0.96
RC	6	6	6	6	6	6	6	6	6	6	5	5

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)	25	98	214	364	534	705	864	976	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.
39 70 94 100 100

C.I.E.	6/6/6/6/6/6/6/6/6/5/5	LOR	100.00000 %
D DIN 5040	A20	ULOR	0.00000 %
F UTE	1.00 G	DLOR	100.00000 %
B NBN	BZ 6 / 0.8 / BZ 5	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



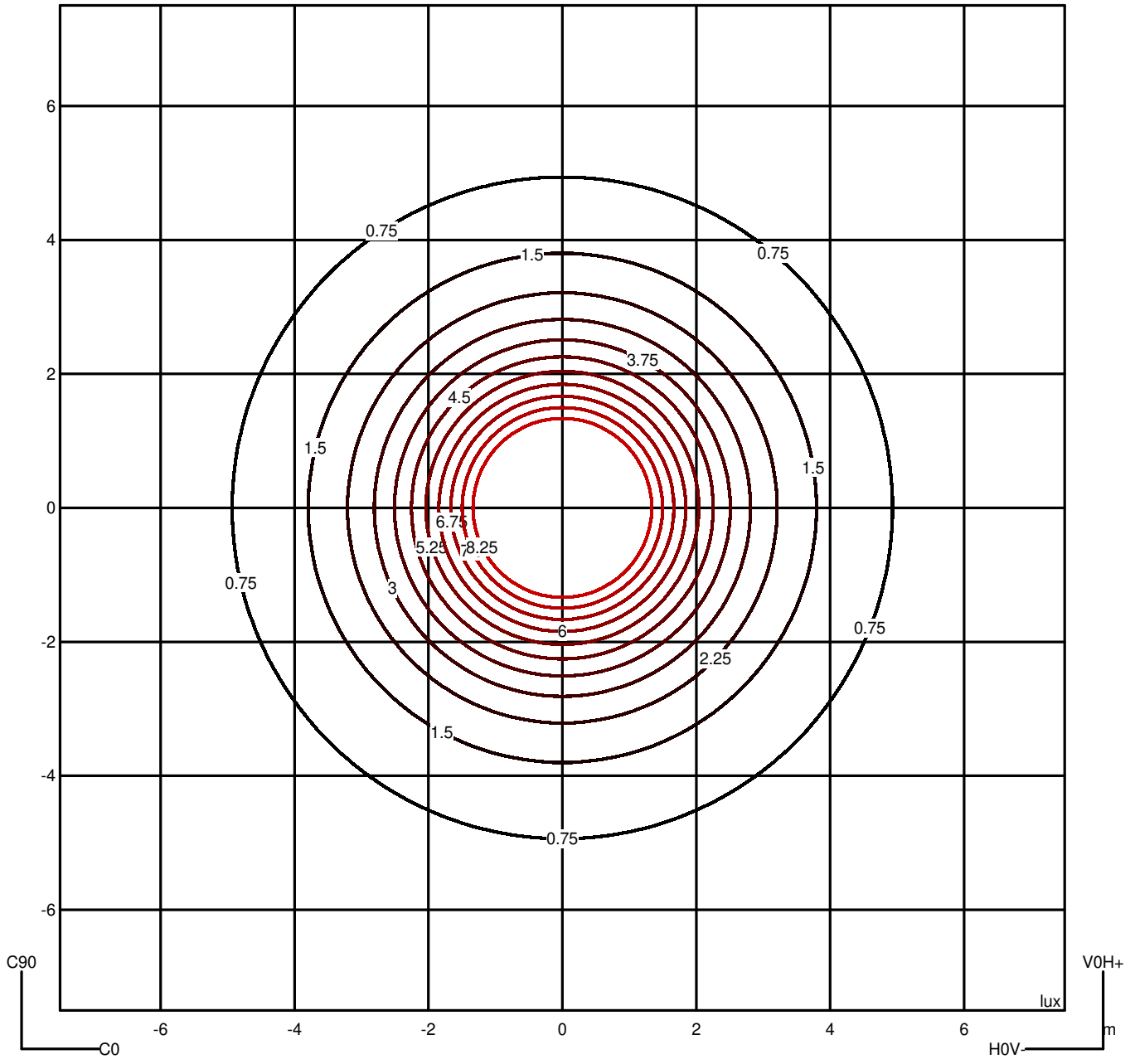
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	6.26	6.26	0.63 %	0.63 %
10°	18.67	24.94	1.87 %	2.49 %
15°	30.74	55.68	3.07 %	5.57 %
20°	42.27	97.95	4.23 %	9.80 %
25°	53.06	151.01	5.31 %	15.10 %
30°	62.91	213.92	6.29 %	21.39 %
35°	71.56	285.48	7.16 %	28.55 %
40°	78.53	364.02	7.85 %	36.40 %
45°	83.49	447.50	8.35 %	44.75 %
50°	86.08	533.58	8.61 %	53.36 %
55°	86.25	619.83	8.62 %	61.98 %
60°	84.83	704.66	8.48 %	70.47 %
65°	82.25	786.91	8.22 %	78.69 %
70°	77.49	864.40	7.75 %	86.44 %
75°	66.66	931.06	6.67 %	93.11 %
80°	45.00	976.06	4.50 %	97.61 %
85°	18.93	994.99	1.89 %	99.50 %
90°	5.01	1000.00	0.50 %	100.00 %
95°	0.00	1000.00	0.00 %	100.00 %
100°	0.00	1000.00	0.00 %	100.00 %
105°	0.00	1000.00	0.00 %	100.00 %
110°	0.00	1000.00	0.00 %	100.00 %
115°	0.00	1000.00	0.00 %	100.00 %
120°	0.00	1000.00	0.00 %	100.00 %
125°	0.00	1000.00	0.00 %	100.00 %
130°	0.00	1000.00	0.00 %	100.00 %
135°	0.00	1000.00	0.00 %	100.00 %
140°	0.00	1000.00	0.00 %	100.00 %
145°	0.00	1000.00	0.00 %	100.00 %
150°	0.00	1000.00	0.00 %	100.00 %
155°	0.00	1000.00	0.00 %	100.00 %
160°	0.00	1000.00	0.00 %	100.00 %
165°	0.00	1000.00	0.00 %	100.00 %
170°	0.00	1000.00	0.00 %	100.00 %
175°	0.00	1000.00	0.00 %	100.00 %
180°	0.00	1000.00	0.00 %	100.00 %

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Isolux (Suelo)

Posición Luminaria X=0.00m Y=0.00m Z=2.50m



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Flujo Fuente	303 lm	Valor Máximo	79.46 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico

Datos Espectrales

Std.: No import standard

CIE1931	x =0.463362	y =0.405698
CIE1960	u =0.267004	v =0.350664
CIE1976	u'=0.267004	v'=0.525996
D(u,v)	0.00207	

Índice repr. Cromática (CRI)
Comp.Reproducción Cromática

CCT = 2614 K

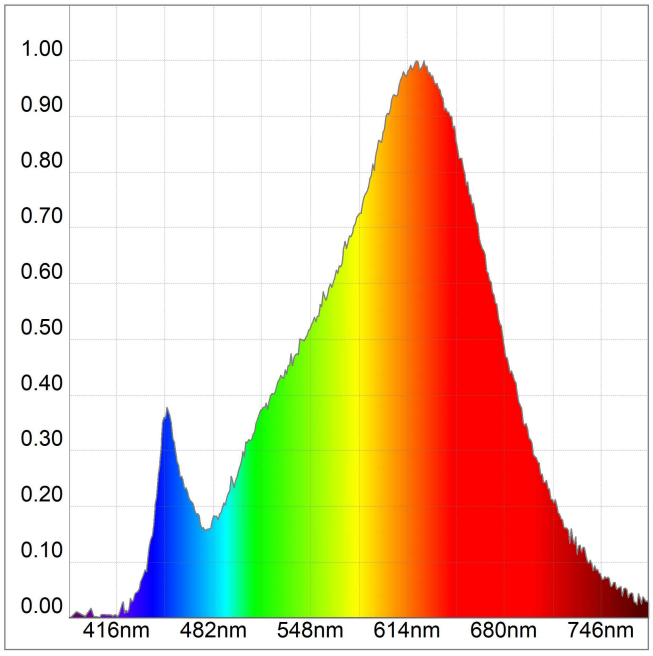
CRI8(Ra) 92.0
R 1: 92.4 R 2: 96.8 R 3: 98.2 R 4: 91.8 R 5: 92.5
R 6: 96.4 R 7: 89.4 R 8: 78.0 R 9: 53.9 R10: 91.8
R11: 93.1 R12: 86.7 R13: 93.8 R14: 99.0 R15: 87.9

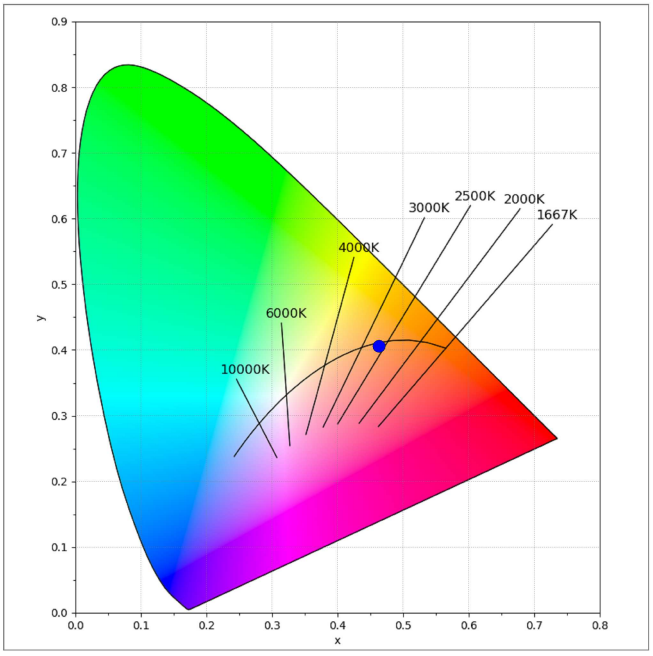
CRI15(Rav) 89.4

Distribución Espectral

l(nm)	Potencia Radiante	l(nm)	Potencia Radiante	l(nm)	Potencia Radiante
383.0	0.000073	389.0	0.009351	395.0	0.005987
401.0	0.002081	407.0	0.005351	413.0	0.002755
419.0	0.022543	425.0	0.035067	431.0	0.051638
437.0	0.109827	443.0	0.219653	449.0	0.358382
455.0	0.315992	461.0	0.246628	467.0	0.208092
473.0	0.166667	479.0	0.159923	485.0	0.175723
491.0	0.215800	497.0	0.246628	503.0	0.289017
509.0	0.329480	515.0	0.373796	521.0	0.398844
527.0	0.427746	533.0	0.452794	539.0	0.473988
545.0	0.502890	551.0	0.539499	557.0	0.585742
563.0	0.593449	569.0	0.630058	575.0	0.685934
581.0	0.722543	587.0	0.764933	593.0	0.830443
599.0	0.876686	605.0	0.938343	611.0	0.971098
617.0	0.992293	623.0	0.982659	629.0	0.976879
635.0	0.959538	641.0	0.915222	647.0	0.882466
653.0	0.807322	659.0	0.741811	665.0	0.670520
671.0	0.605010	677.0	0.539499	683.0	0.466281
689.0	0.421965	695.0	0.344894	701.0	0.292871
707.0	0.258189	713.0	0.211946	719.0	0.185356
725.0	0.156647	731.0	0.113680	737.0	0.111561
743.0	0.093449	749.0	0.068593	755.0	0.057418
761.0	0.055877	767.0	0.042389	773.0	0.043738
779.0	0.030058				

Gráfico del Espectro

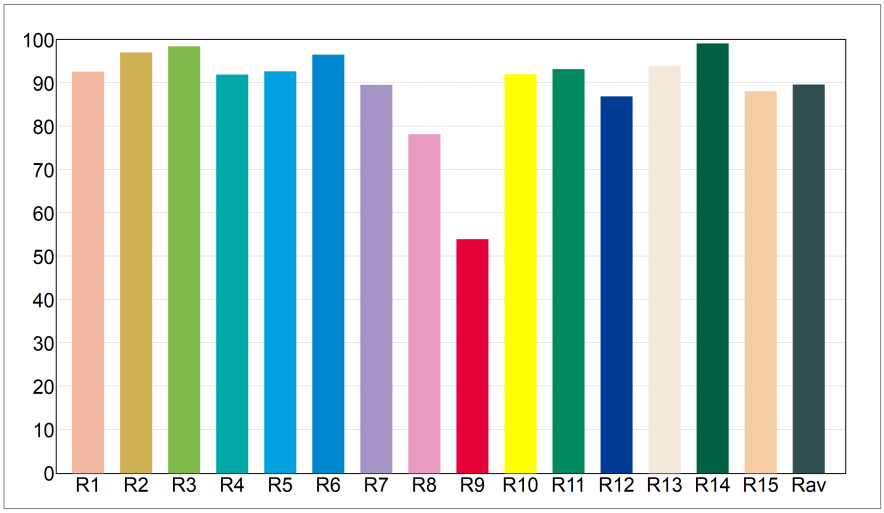


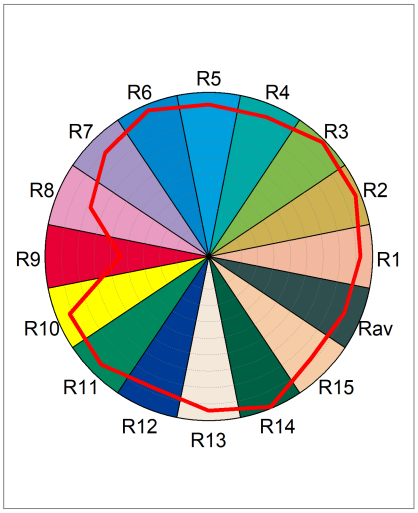


Luminaria
Código 36502012357
Nombre FANALET A02 TRIAC INDIRECT
Ensayo
Código CL092A24D018GP
Nombre FANALET A02 TRIAC INDIRECT

Flujo Luminaria	303 lm	Potencia Luminaria	12.6 W	Eficacia	24.048 lm/W	Eficiencia	100.00%
Flujo Fuente	303 lm	Valor Máximo	79.46 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico

Gráficos del IRC

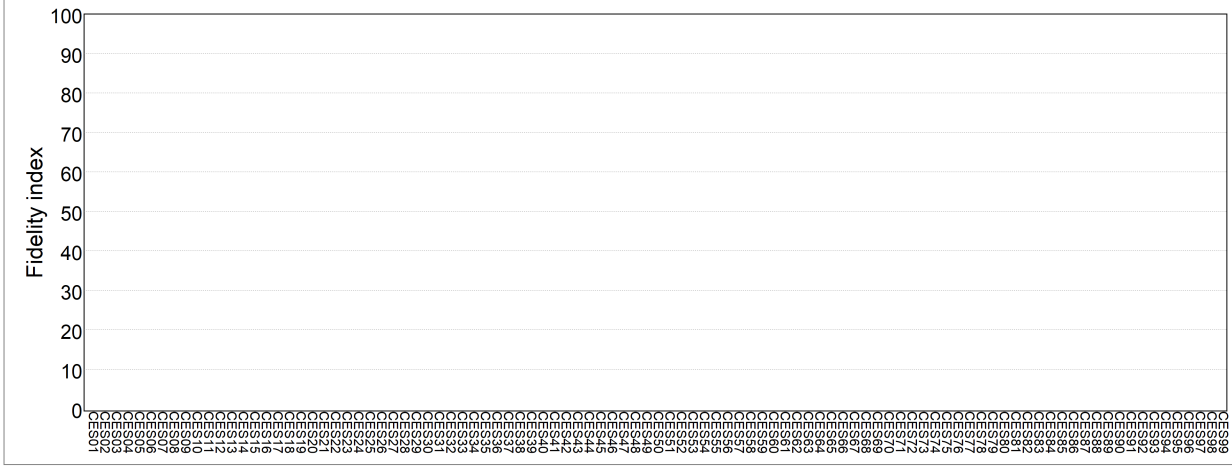




Luminaria
Código 36502012357
Nombre FANALET A02 TRIAC INDIRECT
Ensayo
Código CL092A24D018GP
Nombre FANALET A02 TRIAC INDIRECT

Flujo Luminaria	303 lm	Potencia Luminaria	12.6 W	Eficacia	24.048 lm/W	Eficiencia	100.00%
Flujo Fuente	303 lm	Valor Máximo	79.46 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico

Muestra de Evaluación de Color



Coordenadas de Cromaticidad (a' b') 99 muestras

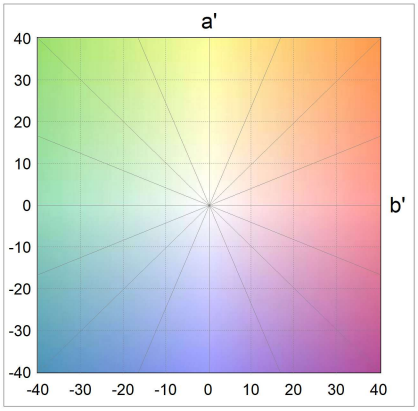


Gráfico Vectorial de Color

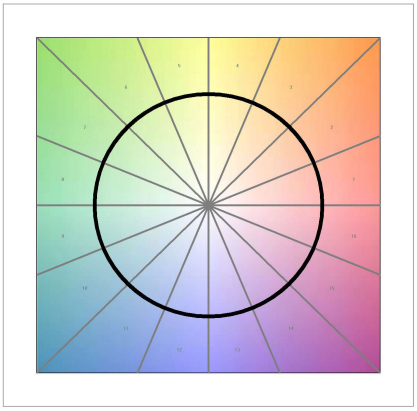


Gráfico de Distorsión de Color

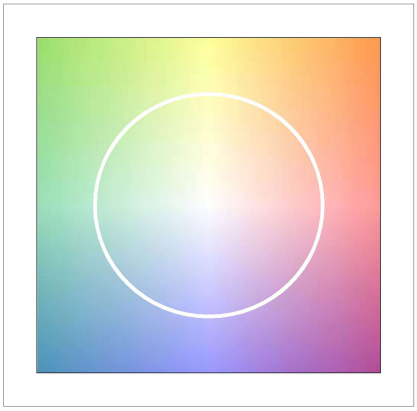


Diagrama Rf vs Rg

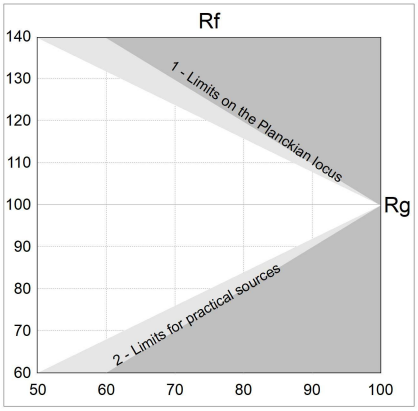
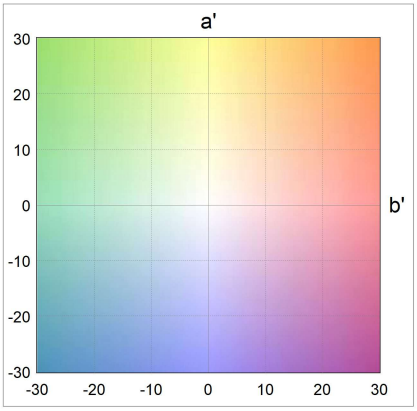


Diagrama Gamut



Cambios por Bin

