Luminaire

Code	36502204014U
Name	FANALET S49 0-10V INDIRECT
Line	Eulumdat

Measurem.

Code	CL092A24D018GP
Name	FANALET S49 0-10V INDIRECT

Source Data

Code	2836 LM281B+PRO (VK)	Correlated Color Temperature (CCT)	2670K	Q.ty	1
Name	2836 LM281B+PRO (VK)	Color rendering index (CRI)	92		
Line					

Measurement data

Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	26-11-2024	Maximum Gamma Angle	180°
Measurement Distance	0.00m	Measurement Flux	303.1 lm
Maximum	262.17 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	10.40 W	Power	0.00 W
Frequency	0 Hz	Frequency	0 Hz
Power Factor	0.00	Power Factor	0.00

Environmental Parameters

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

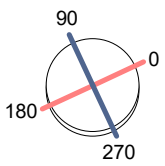
Luminaire Dimensions

Round Luminaire	Diam.	490 mm	Height	170 mm	
Round Luminous Area	Diam.	200 mm	Height	0 mm	
Horizontal Luminous Area		0.031416 m2	Emitting area on Plane 180°		0.000000 m2
Emitting area on Plane 0°		0.000000 m2	Emitting area on Plane 270°		0.000000 m2
Emitting area on Plane 90°		0.000000 m2	Glare area at 76°		0.007600 m2

Photometric Assessment

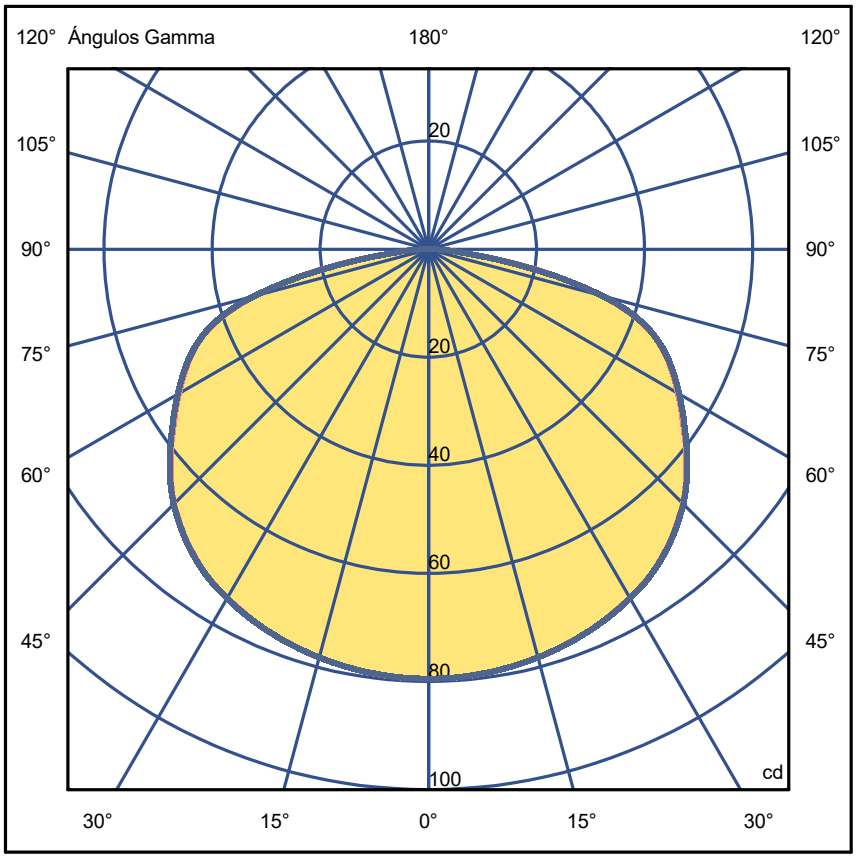
Luminaire Flux	303.1 lm	Source Flux	303.1 lm
Efficacy	29.144 lm/W	Efficiency	100.0 %
CIE Flux Codes	39 70 94 100 100	D DIN 5040	A20
F UTE	1.00 G	B NBN	BZ 6 / 0.8 / BZ 5

Diam=490mm





ULOR 0.03 %
DLOR 99.97 %
RN 0.03 %



Luminaire
Code 36502204014U
Name FANALET S49 0-10V INDIRECT
Measurem.
Code CL092A24D018GP
Name FANALET S49 0-10V INDIRECT

Luminaire Flux	303 lm	Luminaire Power	10.4 W	Efficacy	29.144 lm/W	Efficiency	100.00%
Source Flux	303 lm	Maximum value	79.46 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

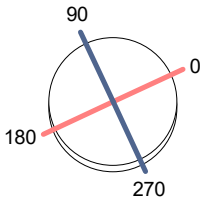
Luminous Intensity Table cd **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	79	79	79	79	79	79	79
G 2.5	79	79	79	79	79	79	79
G 5.0	79	79	79	79	79	79	79
G 7.5	79	79	79	79	79	79	79
G 10.0	79	79	79	79	79	79	79
G 12.5	79	79	79	79	79	79	79
G 15.0	78	78	78	78	78	78	78
G 17.5	78	78	78	78	78	78	78
G 20.0	77	77	77	77	77	77	77
G 22.5	77	77	77	77	77	77	77
G 25.0	76	76	76	76	76	76	76
G 27.5	75	75	75	75	75	75	75
G 30.0	75	75	75	75	75	75	75
G 32.5	74	74	74	74	74	74	74
G 35.0	73	73	73	73	73	73	73
G 37.5	71	71	71	71	71	71	71
G 40.0	70	70	70	70	70	70	70
G 42.5	68	68	68	68	68	68	68
G 45.0	67	67	67	67	67	67	67
G 47.5	65	65	65	65	65	65	65
G 50.0	62	62	62	62	62	62	62
G 52.5	60	60	60	60	60	60	60
G 55.0	58	58	58	58	58	58	58
G 57.5	55	55	56	56	56	56	56
G 60.0	53	53	53	53	53	54	54
G 62.5	51	51	51	51	51	51	51
G 65.0	49	49	49	49	49	49	49
G 67.5	46	46	46	47	47	47	47
G 70.0	43	43	43	43	43	43	43
G 72.5	39	39	39	39	39	39	39
G 75.0	33	33	33	33	33	33	33
G 77.5	26	26	26	26	26	26	26
G 80.0	17	17	17	17	17	17	17
G 82.5	10	10	10	10	10	10	10
G 85.0	5	5	5	5	5	5	5
G 87.5	3	3	3	3	3	3	3
G 90.0	1	1	1	1	1	1	1
G 92.5	0	0	0	0	0	0	0
G 95.0	0	0	0	0	0	0	0
G 97.5	0	0	0	0	0	0	0
G100.0	0	0	0	0	0	0	0
G102.5	0	0	0	0	0	0	0
G105.0	0	0	0	0	0	0	0
G107.5	0	0	0	0	0	0	0
G110.0	0	0	0	0	0	0	0
G112.5	0	0	0	0	0	0	0
G115.0	0	0	0	0	0	0	0
G117.5	0	0	0	0	0	0	0
G120.0	0	0	0	0	0	0	0
G122.5	0	0	0	0	0	0	0
G125.0	0	0	0	0	0	0	0
G127.5	0	0	0	0	0	0	0
G130.0	0	0	0	0	0	0	0
G132.5	0	0	0	0	0	0	0
G135.0	0	0	0	0	0	0	0
G137.5	0	0	0	0	0	0	0
G140.0	0	0	0	0	0	0	0
G142.5	0	0	0	0	0	0	0
G145.0	0	0	0	0	0	0	0
G147.5	0	0	0	0	0	0	0
G150.0	0	0	0	0	0	0	0
G152.5	0	0	0	0	0	0	0
G155.0	0	0	0	0	0	0	0
G157.5	0	0	0	0	0	0	0
G160.0	0	0	0	0	0	0	0
G162.5	0	0	0	0	0	0	0
G165.0	0	0	0	0	0	0	0
G167.5	0	0	0	0	0	0	0
G170.0	0	0	0	0	0	0	0
G172.5	0	0	0	0	0	0	0
G175.0	0	0	0	0	0	0	0
G177.5	0	0	0	0	0	0	0
G180.0	0	0	0	0	0	0	0

Luminaire
Code 36502204014U
Name FANALET S49 0-10V INDIRECT
Measurem.
Code CL092A24D018GP
Name FANALET S49 0-10V INDIRECT

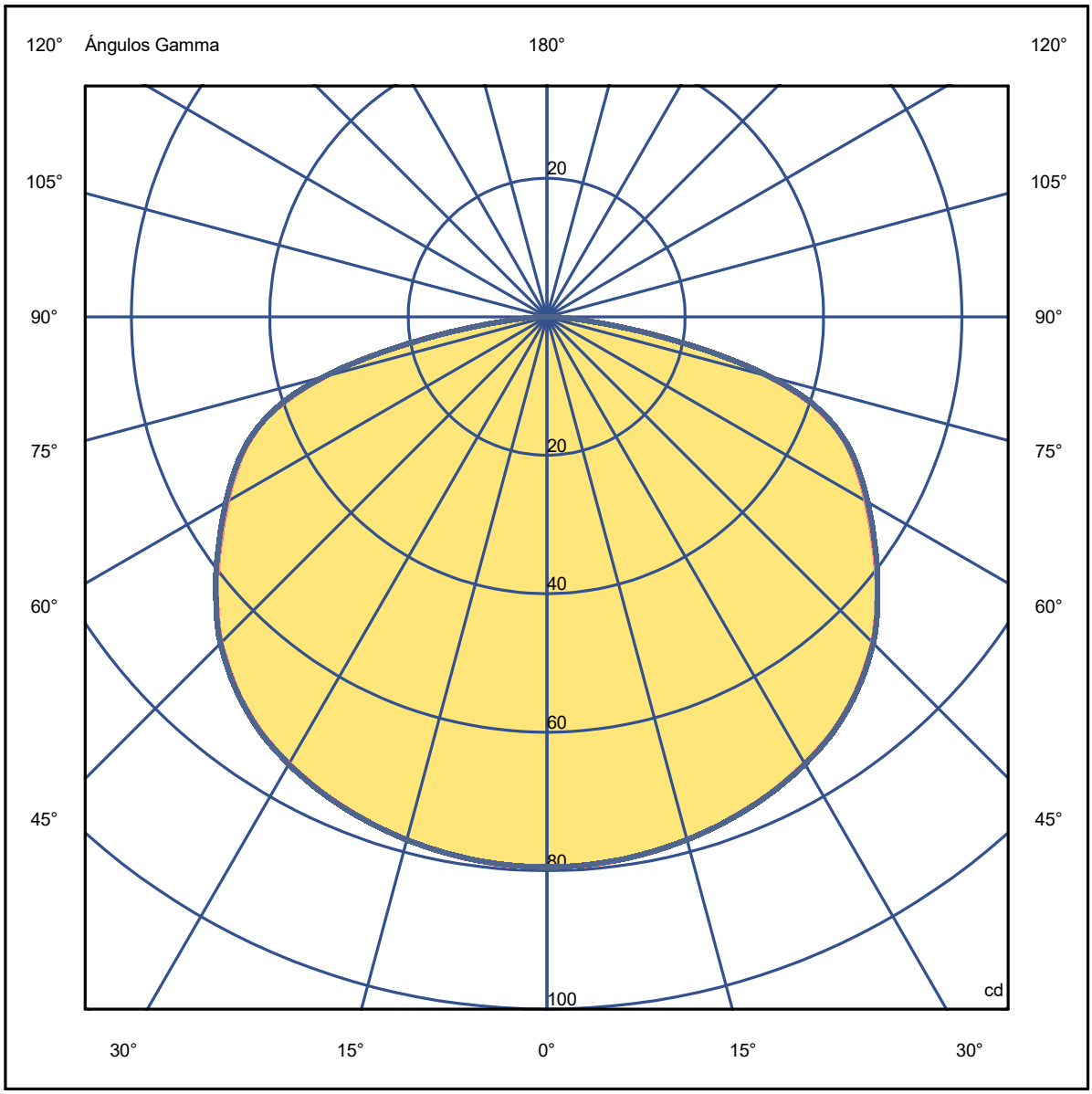
Luminaire Flux	303 lm	Luminaire Power	10.4 W	Efficacy	29.144 lm/W	Efficiency	100.00%
Source Flux	303 lm	Maximum value	79.46 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=490mm



Semiplanos C





Luminaire
Code 36502204014U
Name FANALET S49 0-10V INDIRECT
Measurem.
Code CL092A24D018GP
Name FANALET S49 0-10V INDIRECT

Luminaire Flux	303 lm	Luminaire Power	10.4 W	Efficacy	29.144 lm/W	Efficiency	100.00%
Source Flux	303 lm	Maximum value	79.46 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	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	21.3	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	19.6	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	22.8	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	23.9	23.8	24.3	24.8	23.3	23.9	23.8	24.3	24.8
x=8H y=12H	23.4	23.9	23.9	24.4	24.9	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	23.2	23.7	23.6	24.1	24.6
x=12H y=8H	23.4	23.9	23.9	24.3	24.8	23.4	23.9	23.9	24.3	24.8

Luminaire
Code 36502204014U
Name FANALET S49 0-10V INDIRECT
Measurem.
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Name FANALET S49 0-10V INDIRECT

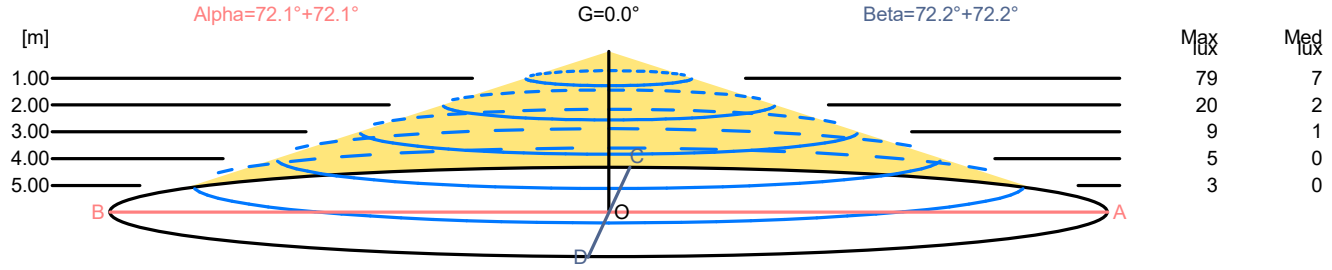
Luminaire Flux	303 lm	Luminaire Power	10.4 W	Efficacy	29.144 lm/W	Efficiency	100.00%
Source Flux	303 lm	Maximum value	79.46 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	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

Luminous Intensities [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



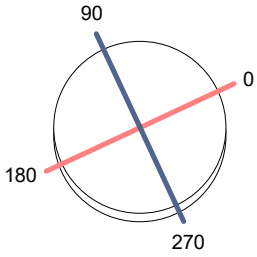
H[m]	D[m]	Max lux	Med lux	Alpha=72.1°+72.1° G=0.0
1.00	6.20	79	7	
2.00	12.40	20	2	
3.00	18.60	9	1	
4.00	24.80	5	0	
5.00	31.00	3	0	

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	

Luminaire
Code 36502204014U
Name FANALET S49 0-10V INDIRECT
Measurem.
Code CL092A24D018GP
Name FANALET S49 0-10V INDIRECT

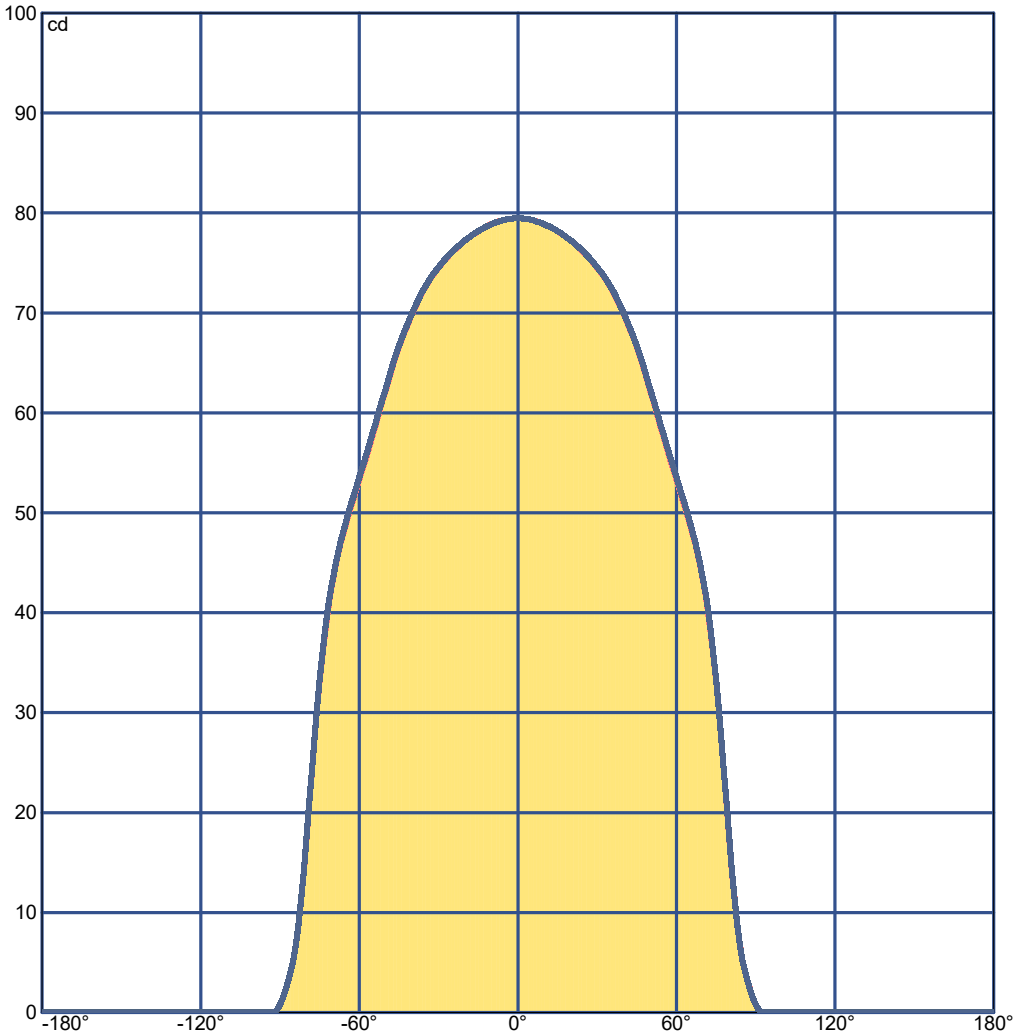
Luminaire Flux	303 lm	Luminaire Power	10.4 W	Efficacy	29.144 lm/W	Efficiency	100.00%
Source Flux	303 lm	Maximum value	79.46 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=490mm



Semiplanos C





Luminaire
Code 36502204014U
Name FANALET S49 0-10V INDIRECT
Measurem.
Code CL092A24D018GP
Name FANALET S49 0-10V INDIRECT

Luminaire Flux	303 lm	Luminaire Power	10.4 W	Efficacy	29.144 lm/W	Efficiency	100.00%
Source Flux	303 lm	Maximum value	79.46 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Flujo Total=303.10 Flujo Luminaria=303.10

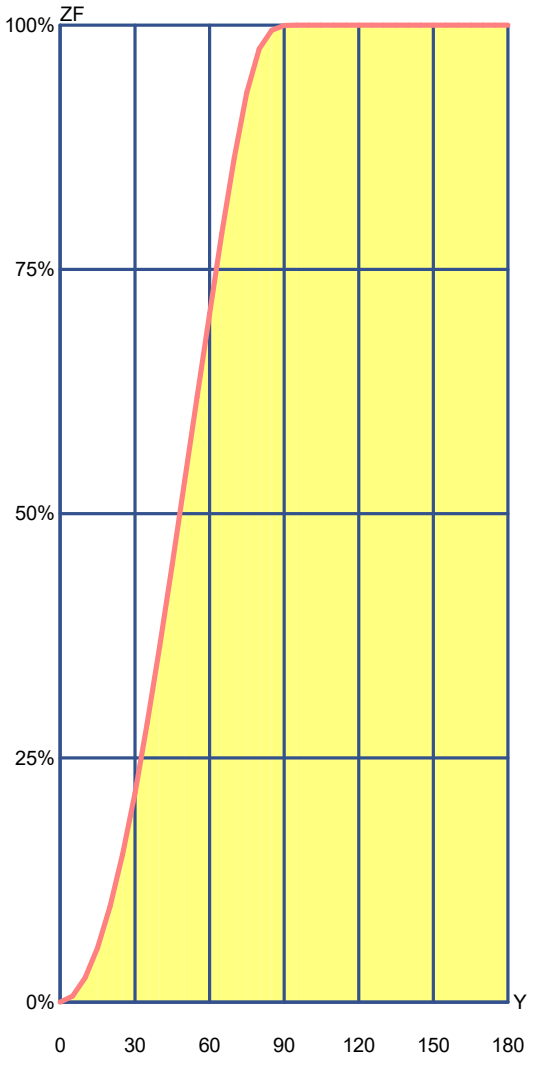
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.25	0.33	0.40	0.47	0.53	0.62	0.69	0.73	0.80	0.83	0.92	0.96
RC	6	6	6	6	6	6	6	6	6	6	5	5

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	533	704	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	0.03349 %
F UTE	1.00 G	DLOR	99.96651 %
B NBN	BZ 6 / 0.8 / BZ 5	UFF	0.03349 %
RN	0.03349 %	DFF	99.96651 %
BLF	1.0	FFR	0.03350 %



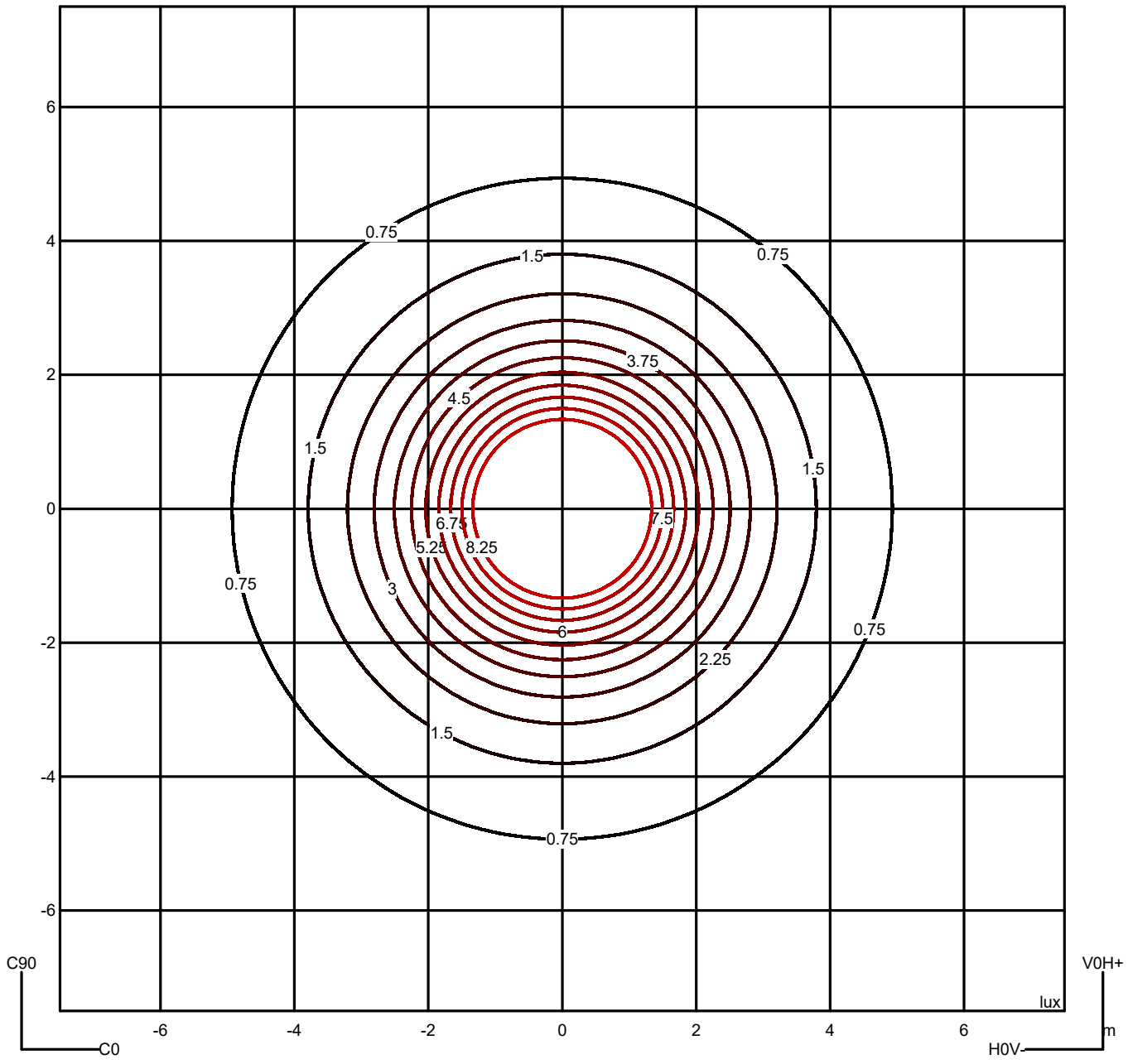
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	6.26	6.26	0.63 %	0.63 %
10°	18.67	24.93	1.87 %	2.49 %
15°	30.73	55.66	3.07 %	5.57 %
20°	42.26	97.92	4.23 %	9.79 %
25°	53.04	150.96	5.30 %	15.10 %
30°	62.89	213.85	6.29 %	21.39 %
35°	71.54	285.39	7.15 %	28.54 %
40°	78.51	363.89	7.85 %	36.39 %
45°	83.46	447.35	8.35 %	44.74 %
50°	86.05	533.40	8.60 %	53.34 %
55°	86.22	619.62	8.62 %	61.96 %
60°	84.80	704.43	8.48 %	70.44 %
65°	82.22	786.64	8.22 %	78.66 %
70°	77.46	864.11	7.75 %	86.41 %
75°	66.64	930.75	6.66 %	93.07 %
80°	44.99	975.73	4.50 %	97.57 %
85°	18.93	994.66	1.89 %	99.47 %
90°	5.00	999.67	0.50 %	99.97 %
95°	0.33	1000.00	0.03 %	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 %

Luminaire
Code 36502204014U
Name FANALET S49 0-10V INDIRECT
Measurem.
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Name FANALET S49 0-10V INDIRECT

Luminaire Flux	303 lm	Luminaire Power	10.4 W	Efficacy	29.144 lm/W	Efficiency	100.00%
Source Flux	303 lm	Maximum value	79.46 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

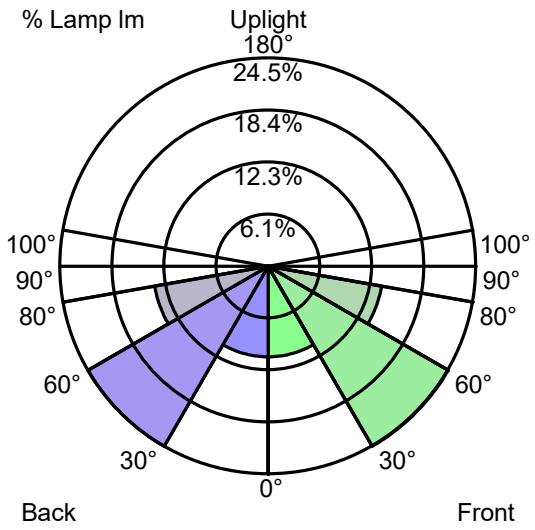
Luminaire position X=0.00m Y=0.00m Z=2.50m

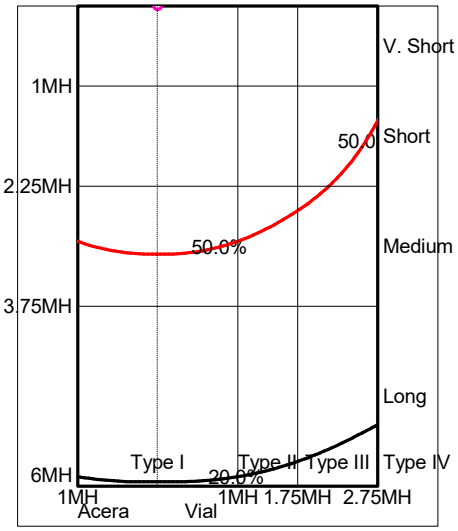


Luminaire
Code 36502204014U
Name FANALET S49 0-10V INDIRECT
Measurem.
Code CL092A24D018GP
Name FANALET S49 0-10V INDIRECT

Luminaire Flux	303 lm	Luminaire Power	10.4 W	Efficacy	29.144 lm/W	Efficiency	100.00%
Source Flux	303 lm	Maximum value	79.46 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

US ROAD STANDARDS





Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	32.4 lm	10.7 %	10.7 %
FM	30° -- 60°	74.4 lm	24.5 %	24.5 %
FH	60° -- 80°	41.2 lm	13.6 %	13.6 %
FVH	80° -- 90°	3.5 lm	1.2 %	1.2 %
BL	0° -- 30°	32.4 lm	10.7 %	10.7 %
BM	30° -- 60°	74.4 lm	24.5 %	24.5 %
BH	60° -- 80°	41.2 lm	13.6 %	13.6 %
BVH	80° -- 90°	3.5 lm	1.2 %	1.2 %
UL	90° -- 100°	0.1 lm	0.0 %	0.0 %
UH	100° -- 180°	0.0 lm	0.0 %	0.0 %
TOTALS		303.1 lm	100.0 %	100.0 %
BUG B0 U1 G0		Type V Very Short		Quadrilateral Symmetry

Luminaire
Code 36502204014U
Name FANALET S49 0-10V INDIRECT
Measurem.
Code CL092A24D018GP
Name FANALET S49 0-10V INDIRECT

Luminaire Flux	303 lm	Luminaire Power	10.4 W	Efficacy	29.144 lm/W	Efficiency	100.00%
Source Flux	303 lm	Maximum value	79.46 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Spectral Data

Std.: No import standard

CIE1931	x =0.460526	y =0.407983
CIE1960	u =0.264111	v =0.350966
CIE1976	u'=0.264111	v'=0.526449
D(u,v)	0.00102	

Color rendering index (CRI)
Color Rendering Components

CCT = [2670 K]*

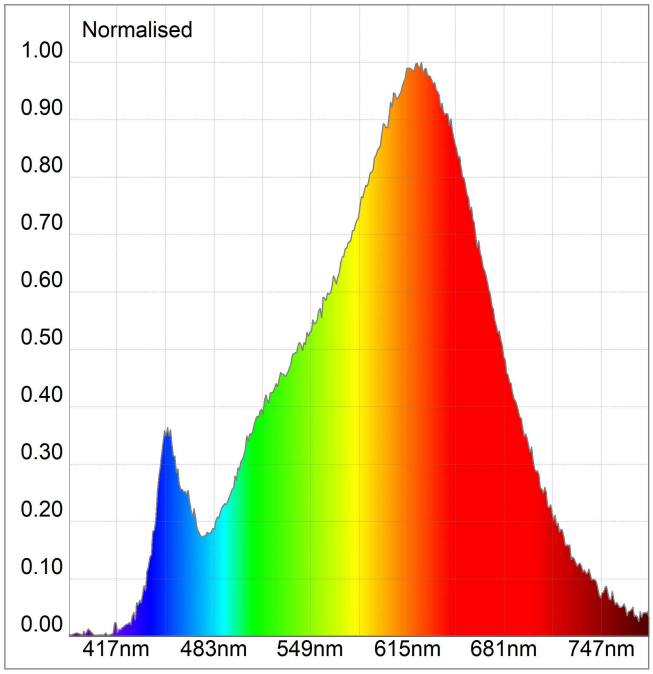
CRI8(Ra) [92.7]* CRI15(Rav) [90.2]*

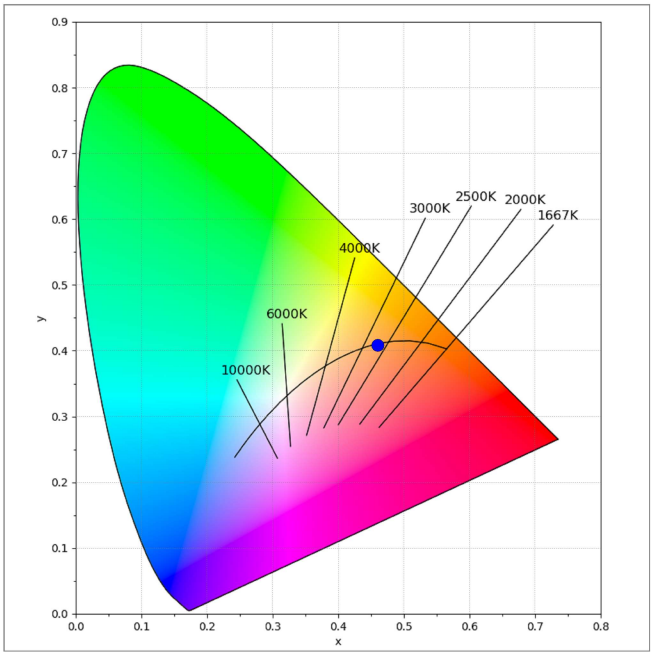
R 1: 93.1	R 2: 97.3	R 3: 98.5	R 4: 92.7	R 5: 93.2
R 6: 96.9	R 7: 90.3	R 8: 79.6	R 9: 56.9	R10: 93.1
R11: 94.2	R12: 85.6	R13: 94.4	R14: 99.4	R15: 88.5

Spectral Distribution

l(nm)	Normalised	l(nm)	Normalised	l(nm)	Normalised
385.0	0.002683	391.0	0.004526	397.0	0.007630
403.0	0.001381	409.0	0.003208	415.0	0.004222
421.0	0.014687	427.0	0.019857	433.0	0.062791
439.0	0.120751	445.0	0.246869	451.0	0.348837
457.0	0.313059	463.0	0.250447	469.0	0.205725
475.0	0.172272	481.0	0.178354	487.0	0.205725
493.0	0.234347	499.0	0.271914	505.0	0.325581
511.0	0.368515	517.0	0.386404	523.0	0.423971
529.0	0.459750	535.0	0.466905	541.0	0.508050
547.0	0.529517	553.0	0.545617	559.0	0.588551
565.0	0.627907	571.0	0.660107	577.0	0.690519
583.0	0.745975	589.0	0.792487	595.0	0.846154
601.0	0.885510	607.0	0.944544	613.0	0.966011
619.0	0.985689	625.0	1.000000	631.0	0.974955
637.0	0.942755	643.0	0.908766	649.0	0.847943
655.0	0.785331	661.0	0.719141	667.0	0.642218
673.0	0.574240	679.0	0.516995	685.0	0.441860
691.0	0.391771	697.0	0.343470	703.0	0.286225
709.0	0.259392	715.0	0.202147	721.0	0.184258
727.0	0.133810	733.0	0.126834	739.0	0.116816
745.0	0.084794	751.0	0.087120	757.0	0.054919
763.0	0.056172	769.0	0.050805	775.0	0.032558

Spectrum Graph

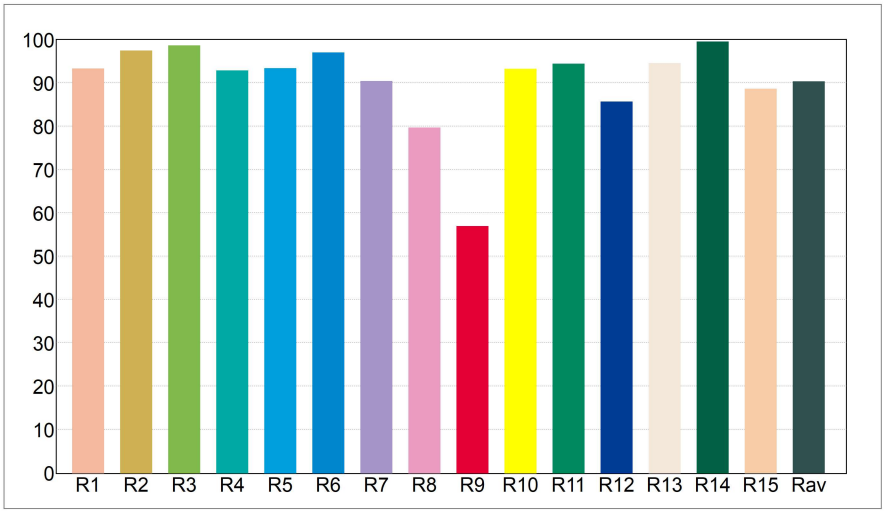


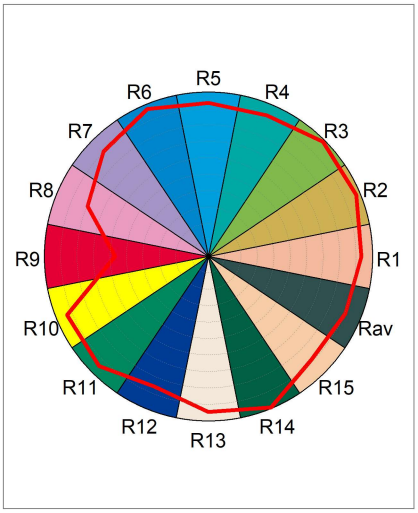


Luminaire
Code 36502204014U
Name FANALET S49 0-10V INDIRECT
Measurem.
Code CL092A24D018GP
Name FANALET S49 0-10V INDIRECT

Luminaire Flux	303 lm	Luminaire Power	10.4 W	Efficacy	29.144 lm/W	Efficiency	100.00%
Source Flux	303 lm	Maximum value	79.46 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

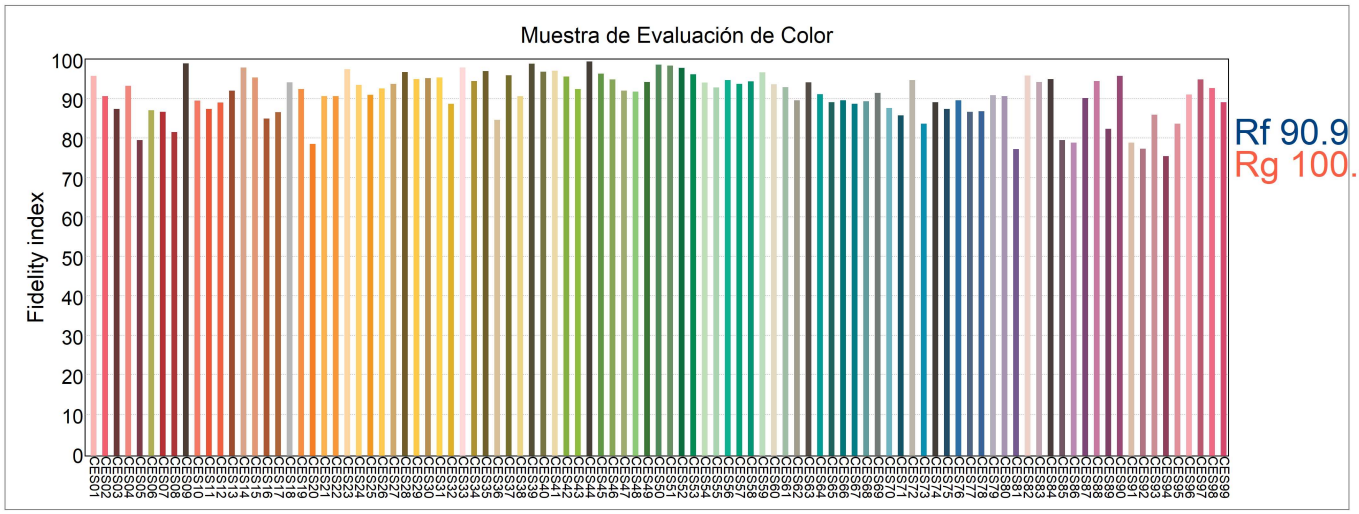
CRI Graphs



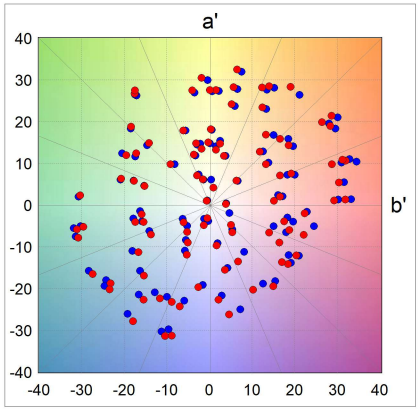


Luminaire
Code 36502204014U
Name FANALET S49 0-10V INDIRECT
Measurem.
Code CL092A24D018GP
Name FANALET S49 0-10V INDIRECT

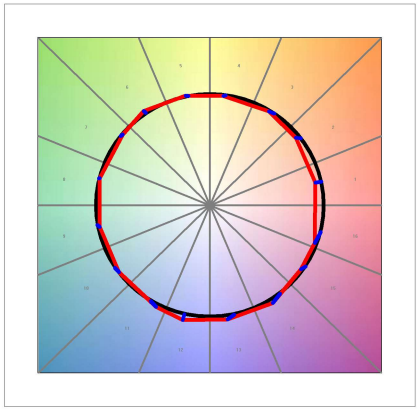
Luminaire Flux	303 lm	Luminaire Power	10.4 W	Efficacy	29.144 lm/W	Efficiency	100.00%
Source Flux	303 lm	Maximum value	79.46 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical



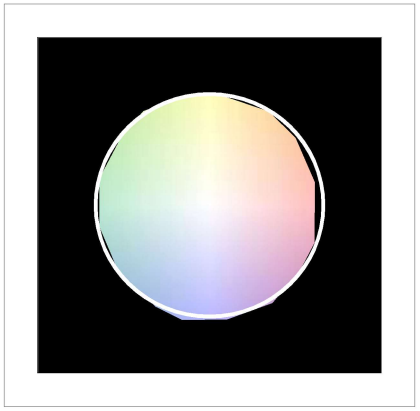
Chromatic Coordinates (a', b') 99 CES



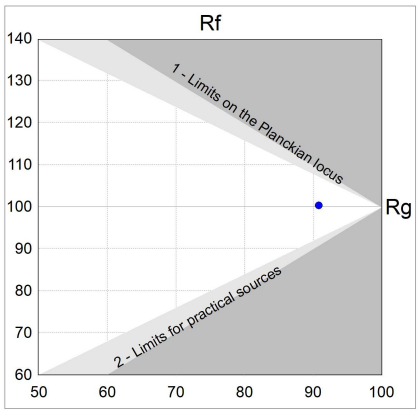
Color Vector Graphic



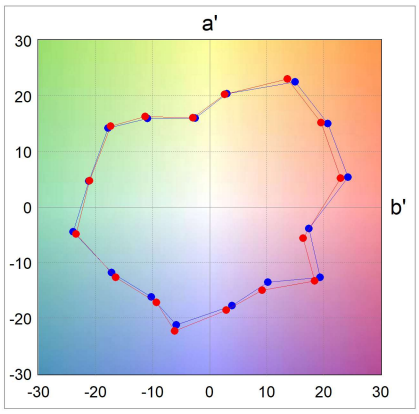
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

