Luminaire

Code	36502214014U
Name	FANALET S49 TRIAC
Line	Eulumdat

Measurem.

Code	CL092A24D016GP
Name	FANALET S49 TRIAC

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	25-11-2024	Maximum Gamma Angle	180°
Measurement Distance	0.00m	Measurement Flux	643.0 lm
Maximum	574.79 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	26.85 W	Power	0.00 W
Frequency	0 Hz	Frequency	0 Hz
Power Factor	0.00	Power Factor	0.00

Environmental Parameters

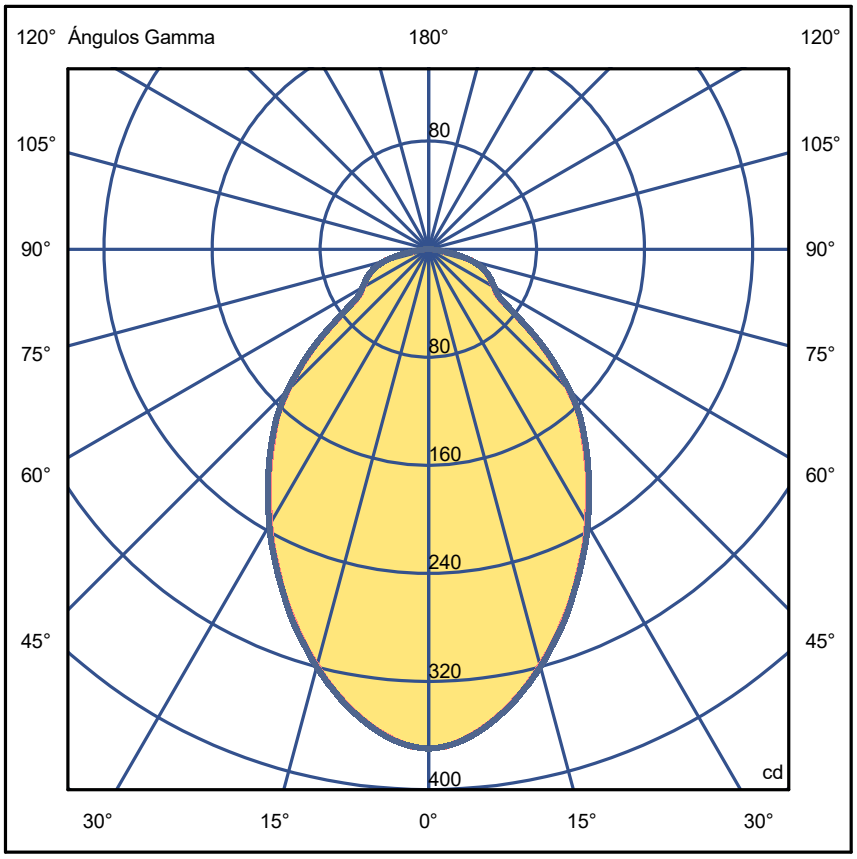
Temperature	0.0 °C	Air Speed	0.0 m/s
Humidity	0.0 %		

Luminaire Dimensions

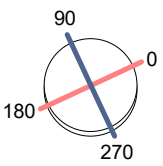
Round Luminaire	Diam.	490 mm	Height	170 mm	
Round Luminous Area	Diam.	200 mm	Height	80 mm	
Horizontal Luminous Area	0.031416 m2		Emitting area on Plane 180°	0.016000 m2	
Emitting area on Plane 0°	0.016000 m2		Emitting area on Plane 270°	0.016000 m2	
Emitting area on Plane 90°	0.016000 m2		Glare area at 76°	0.023125 m2	

Photometric Assessment

Luminaire Flux	643.0 lm	Source Flux	643.0 lm
Efficacy	23.948 lm/W	Efficiency	100.0 %
CIE Flux Codes	61 86 97 100 100	D DIN 5040	A50
F UTE	1.00 C	B NBN	BZ 3



Diam=490mm





ULOR 0.14 %
DLOR 99.86 %
RN 0.14 %

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Luminaire Flux	643 lm	Luminaire Power	26.9 W	Efficacy	23.948 lm/W	Efficiency	100.00%
Source Flux	643 lm	Maximum value	369.59 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

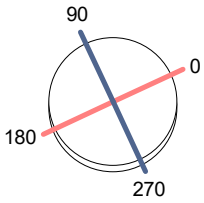
Luminous Intensity Table cd **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	370	370	370	370	370	370	370
G 2.5	367	367	367	367	368	367	367
G 5.0	361	362	361	362	362	362	362
G 7.5	353	353	354	353	354	354	354
G 10.0	343	343	343	344	344	344	344
G 12.5	332	332	332	332	332	332	332
G 15.0	319	320	319	320	320	320	320
G 17.5	306	306	306	307	307	307	307
G 20.0	292	293	293	293	293	293	293
G 22.5	278	278	278	278	279	279	279
G 25.0	263	264	264	264	264	264	264
G 27.5	249	249	249	250	250	250	250
G 30.0	234	235	235	235	235	235	236
G 32.5	220	220	220	220	221	221	221
G 35.0	206	206	206	206	207	207	207
G 37.5	192	192	192	192	193	192	193
G 40.0	178	178	178	178	179	179	179
G 42.5	164	164	164	164	165	164	165
G 45.0	147	147	147	147	148	147	148
G 47.5	128	128	128	128	129	128	128
G 50.0	107	108	108	108	108	107	109
G 52.5	85	86	86	86	86	86	86
G 55.0	66	67	67	68	68	68	68
G 57.5	59	59	60	60	60	60	60
G 60.0	56	56	56	56	56	56	56
G 62.5	53	53	53	53	53	53	53
G 65.0	50	50	50	50	50	50	50
G 67.5	47	47	47	47	47	47	47
G 70.0	43	44	43	43	43	44	44
G 72.5	39	39	39	39	39	39	39
G 75.0	33	33	33	33	33	33	33
G 77.5	25	25	25	25	25	25	25
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	2	2	2	3	3
G 90.0	0	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
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Name FANALET S49 TRIAC

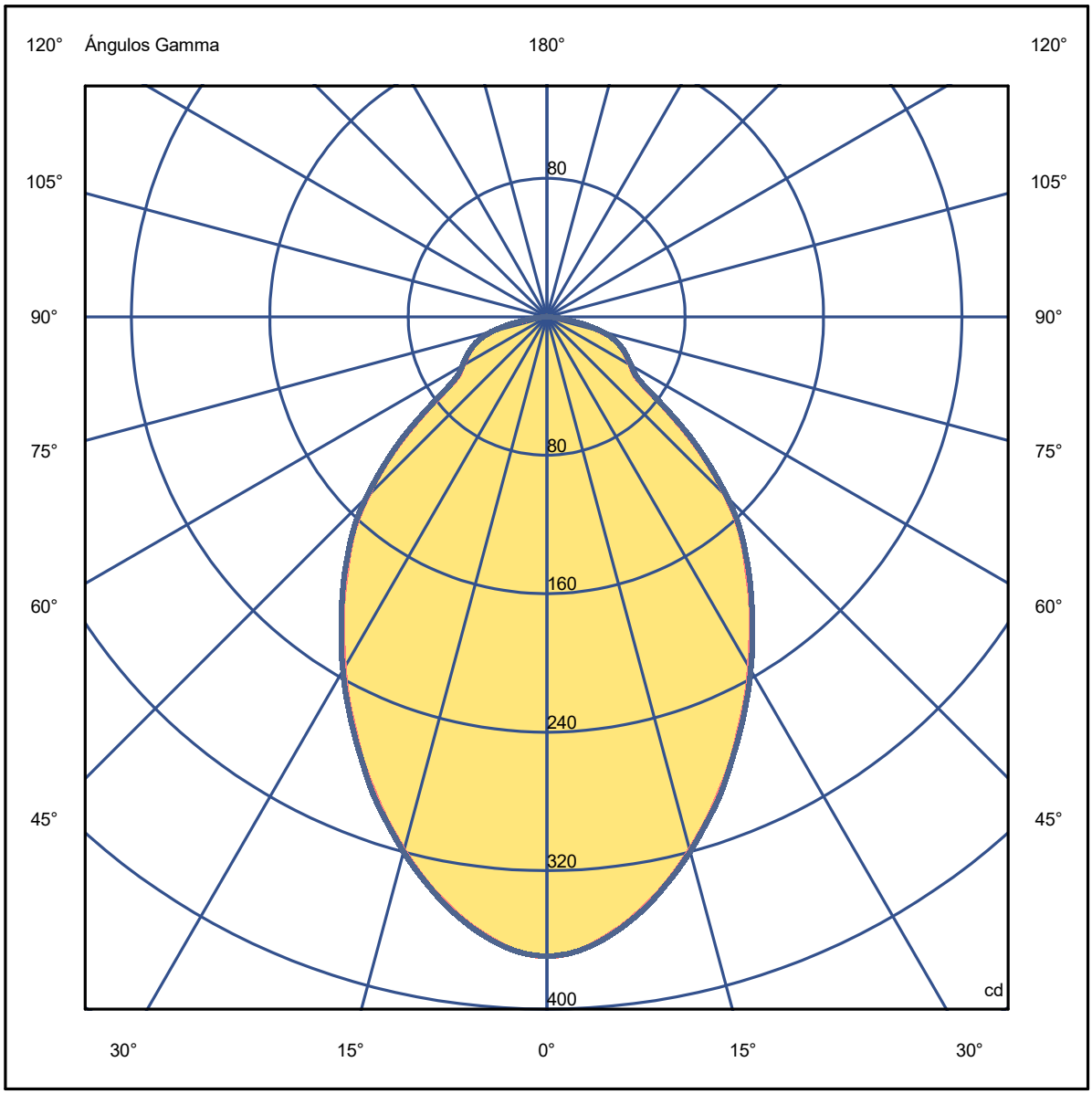
Luminaire Flux	643 lm	Luminaire Power	26.9 W	Efficacy	23.948 lm/W	Efficiency	100.00%
Source Flux	643 lm	Maximum value	369.59 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=490mm



Semiplanos C





Luminaire
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Measurem.
Code CL092A24D016GP
Name FANALET S49 TRIAC

Luminaire Flux	643 lm	Luminaire Power	26.9 W	Efficacy	23.948 lm/W	Efficiency	100.00%
Source Flux	643 lm	Maximum value	369.59 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	15.1	16.3	15.4	16.5	16.7	15.2	16.3	15.4	16.5	16.8
x=2H y=3H	16.2	17.2	16.5	17.5	17.7	16.2	17.2	16.5	17.5	17.7
x=2H y=4H	16.7	17.6	17.0	17.9	18.2	16.7	17.7	17.0	17.9	18.2
x=2H y=6H	16.9	17.8	17.3	18.1	18.4	16.9	17.8	17.3	18.1	18.4
x=2H y=8H	16.9	17.8	17.3	18.1	18.4	17.0	17.8	17.3	18.1	18.4
x=2H y=12H	16.9	17.7	17.3	18.1	18.4	16.9	17.8	17.3	18.1	18.4
x=4H y=2H	15.5	16.4	15.8	16.7	17.0	15.5	16.5	15.8	16.7	17.0
x=4H y=3H	16.8	17.6	17.2	17.9	18.3	16.8	17.6	17.2	18.0	18.3
x=4H y=4H	17.4	18.2	17.8	18.5	18.9	17.5	18.2	17.8	18.5	18.9
x=4H y=6H	17.8	18.4	18.2	18.8	19.2	17.8	18.4	18.2	18.8	19.2
x=4H y=8H	17.8	18.4	18.2	18.8	19.2	17.8	18.4	18.3	18.8	19.2
x=4H y=12H	17.8	18.3	18.3	18.7	19.2	17.8	18.3	18.3	18.7	19.2
x=8H y=4H	17.6	18.2	18.1	18.6	19.0	17.7	18.2	18.1	18.6	19.0
x=8H y=6H	18.1	18.5	18.5	18.9	19.4	18.1	18.5	18.5	19.0	19.4
x=8H y=8H	18.1	18.5	18.6	19.0	19.5	18.1	18.5	18.6	19.0	19.5
x=8H y=12H	18.1	18.5	18.6	18.9	19.4	18.1	18.5	18.6	19.0	19.5
x=12H y=4H	17.6	18.1	18.1	18.6	19.0	17.7	18.2	18.1	18.6	19.0
x=12H y=6H	18.1	18.5	18.5	18.9	19.4	18.1	18.5	18.5	18.9	19.4
x=12H y=8H	18.1	18.5	18.6	18.9	19.4	18.1	18.5	18.6	19.0	19.5

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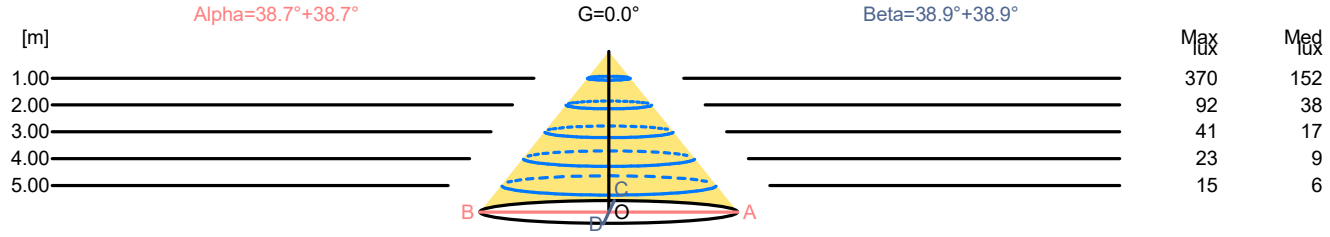
Luminaire Flux	643 lm	Luminaire Power	26.9 W	Efficacy	23.948 lm/W	Efficiency	100.00%
Source Flux	643 lm	Maximum value	369.59 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	0.80	1.60	2.40	3.21	4.01	OC	0.81	1.62	2.42	3.23	4.04
OB	0.80	1.60	2.40	3.21	4.01	OD	0.81	1.62	2.42	3.23	4.04

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	369.59	361.26	319.19	263.34	206.02	146.64	66.43	49.96	32.86	5.03
OB	369.59	361.26	319.19	263.34	206.02	146.64	66.43	49.96	32.86	5.03
OC	369.59	361.71	320.01	264.22	206.94	147.77	67.81	50.30	32.93	5.21
OD	369.59	361.71	320.01	264.22	206.94	147.77	67.81	50.30	32.93	5.21



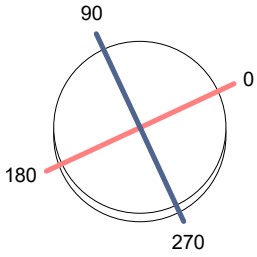
H[m]	D[m]	Max lux	Med lux	Alpha=38.7°+38.7° G=0.0
1.00	1.60	370	152	
2.00	3.21	92	38	
3.00	4.81	41	17	
4.00	6.41	23	9	
5.00	8.02	15	6	

H[m]	D[m]	Max lux	Med lux	Beta=38.9°+38.9° G=0.0
1.00	1.62	370	152	
2.00	3.23	92	38	
3.00	4.85	41	17	
4.00	6.46	23	9	
5.00	8.08	15	6	

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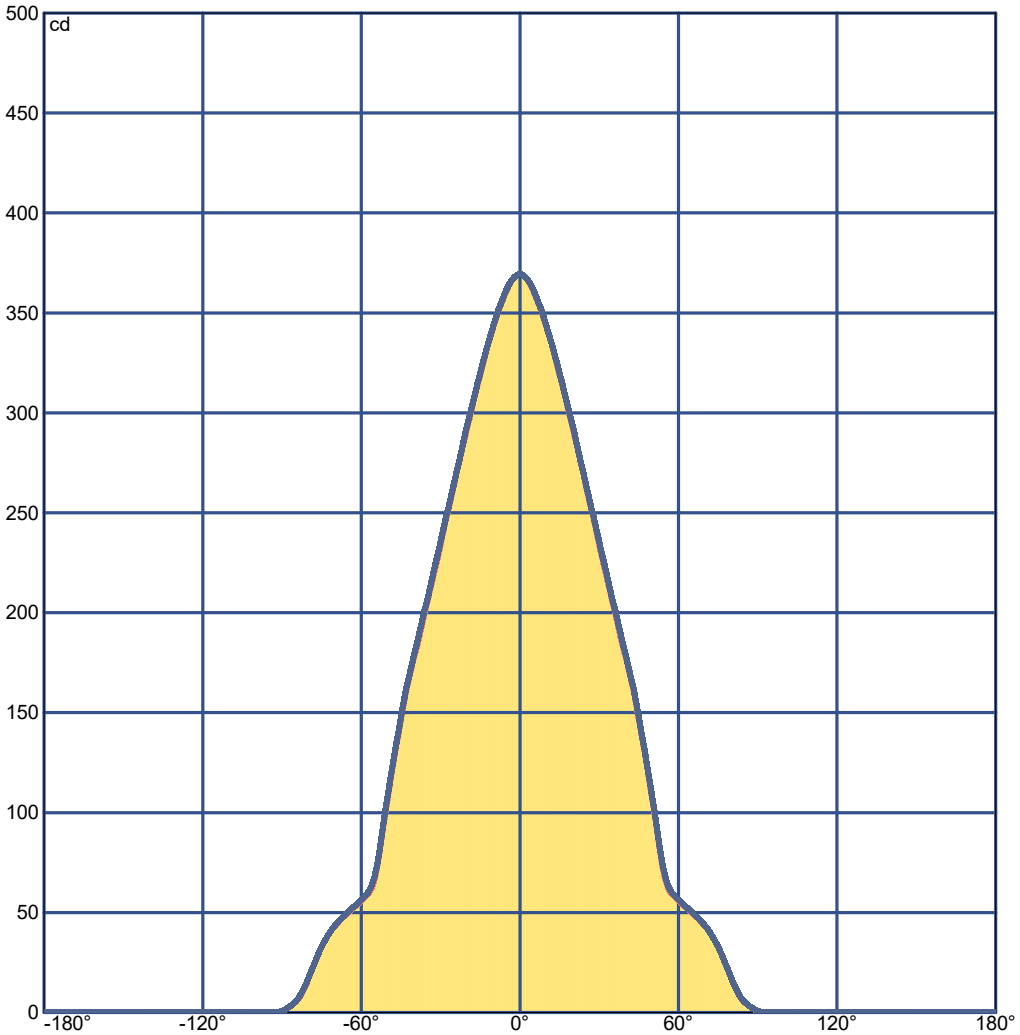
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Source Flux	643 lm	Maximum value	369.59 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=490mm



Semiplanos C





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Luminaire Flux	643 lm	Luminaire Power	26.9 W	Efficacy	23.948 lm/W	Efficiency	100.00%
Source Flux	643 lm	Maximum value	369.59 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Flujo Total=643.00 Flujo Luminaria=643.00

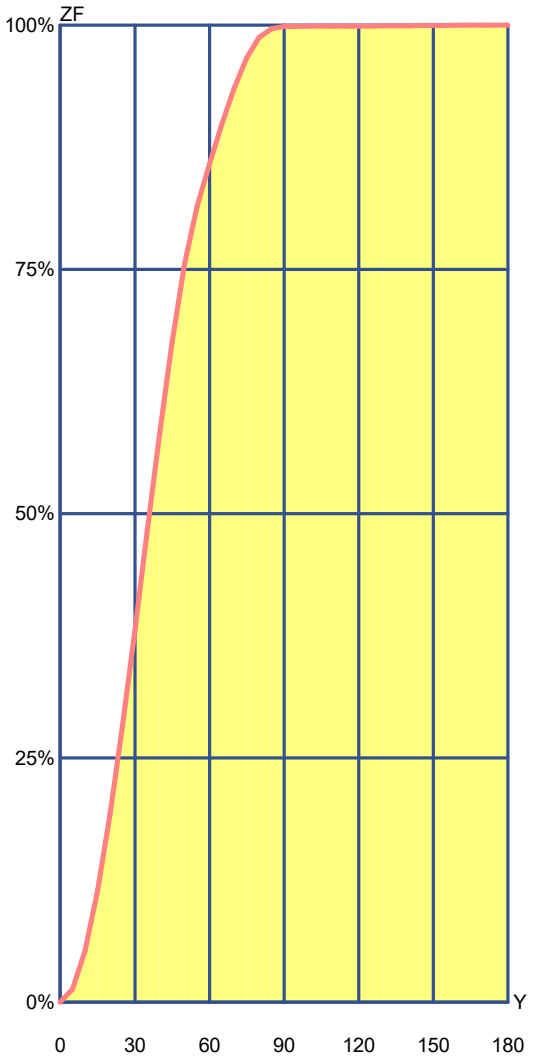
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.41	0.49	0.56	0.63	0.67	0.75	0.80	0.83	0.87	0.90	0.95	0.98
RC	3	3	3	3	3	3	3	3	3	3	2	2

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)	53	192	381	582	756	858	935	987	999	999	999	999	999	999	1000	1000	1000	1000

Códigos de Flujo C.I.E.
61 86 97 100 100

C.I.E.	3/3/3/3/3/3/3/3/3/2/2	LOR	100.00000 %
D DIN 5040	A50	ULOR	0.14322 %
F UTE	1.00 C	DLOR	99.85678 %
B NBN	BZ 3	UFF	0.14322 %
RN	0.14322 %	DFF	99.85678 %
BLF	1.0	FFR	0.14342 %



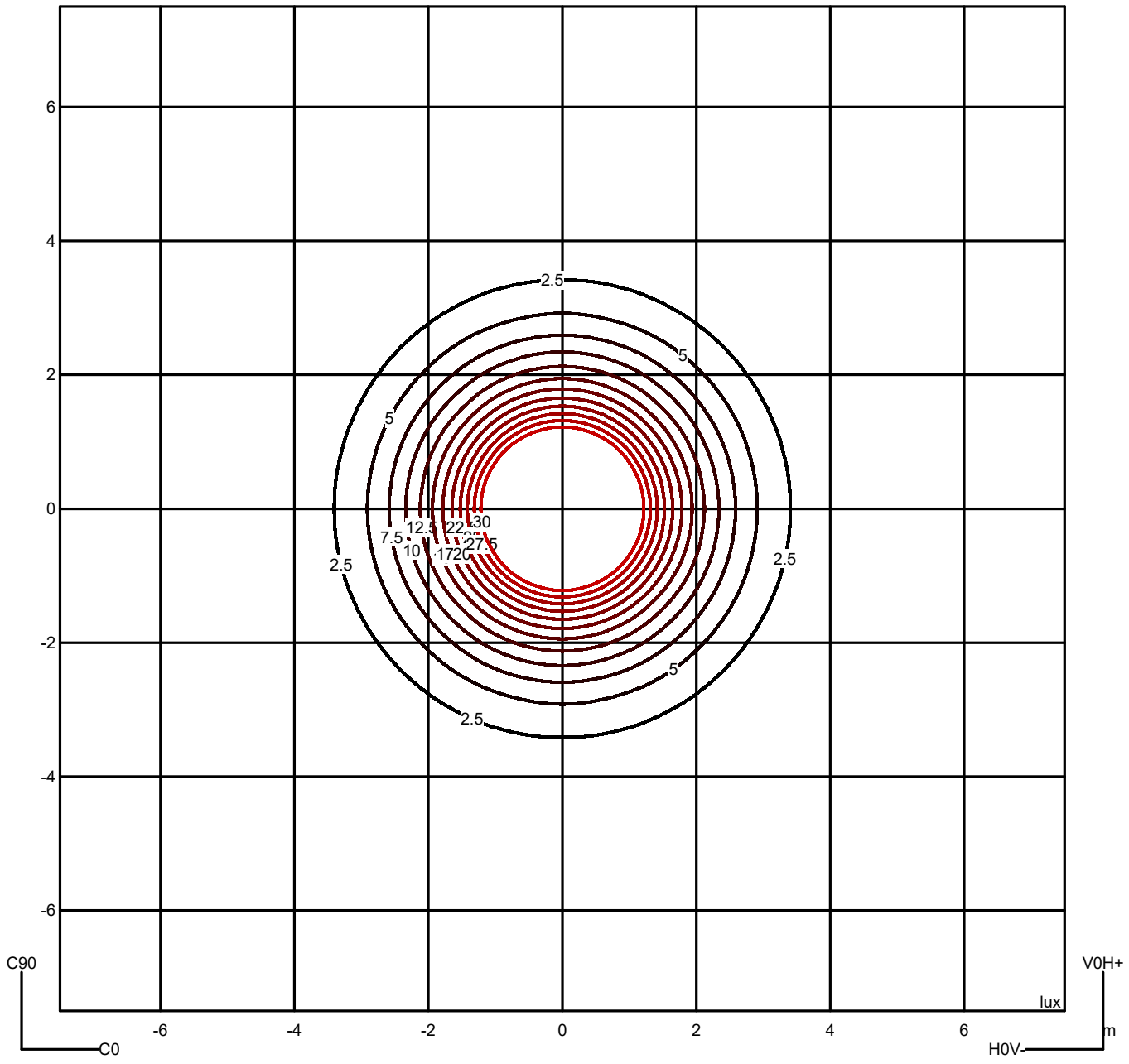
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	13.59	13.59	1.36 %	1.36 %
10°	39.20	52.79	3.92 %	5.28 %
15°	61.13	113.92	6.11 %	11.39 %
20°	78.42	192.35	7.84 %	19.23 %
25°	90.72	283.07	9.07 %	28.31 %
30°	98.12	381.19	9.81 %	38.12 %
35°	100.90	482.09	10.09 %	48.21 %
40°	99.63	581.72	9.96 %	58.17 %
45°	94.03	675.75	9.40 %	67.57 %
50°	80.20	755.95	8.02 %	75.59 %
55°	58.52	814.46	5.85 %	81.45 %
60°	43.70	858.17	4.37 %	85.82 %
65°	40.19	898.36	4.02 %	89.84 %
70°	36.92	935.28	3.69 %	93.53 %
75°	31.29	966.57	3.13 %	96.66 %
80°	20.90	987.47	2.09 %	98.75 %
85°	8.79	996.26	0.88 %	99.63 %
90°	2.31	998.57	0.23 %	99.86 %
95°	0.18	998.74	0.02 %	99.87 %
100°	0.04	998.78	0.00 %	99.88 %
105°	0.04	998.82	0.00 %	99.88 %
110°	0.05	998.88	0.01 %	99.89 %
115°	0.06	998.94	0.01 %	99.89 %
120°	0.07	999.01	0.01 %	99.90 %
125°	0.08	999.10	0.01 %	99.91 %
130°	0.09	999.19	0.01 %	99.92 %
135°	0.10	999.29	0.01 %	99.93 %
140°	0.11	999.39	0.01 %	99.94 %
145°	0.11	999.50	0.01 %	99.95 %
150°	0.11	999.61	0.01 %	99.96 %
155°	0.10	999.71	0.01 %	99.97 %
160°	0.09	999.80	0.01 %	99.98 %
165°	0.08	999.88	0.01 %	99.99 %
170°	0.06	999.95	0.01 %	99.99 %
175°	0.04	999.99	0.00 %	100.00 %
180°	0.01	1000.00	0.00 %	100.00 %

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Source Flux	643 lm	Maximum value	369.59 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

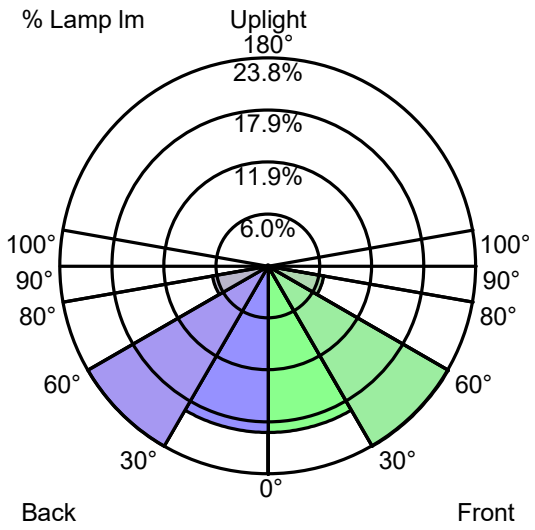
Luminaire position X=0.00m Y=0.00m Z=2.50m

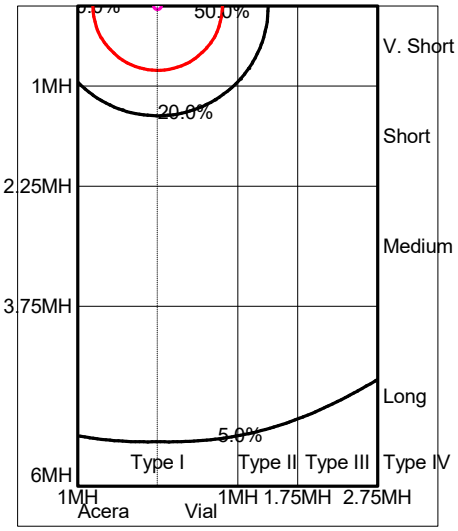


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US ROAD STANDARDS





Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	122.6 lm	19.1 %	19.1 %
FM	30° -- 60°	153.3 lm	23.8 %	23.8 %
FH	60° -- 80°	41.7 lm	6.5 %	6.5 %
FVH	80° -- 90°	3.5 lm	0.5 %	0.5 %
BL	0° -- 30°	122.6 lm	19.1 %	19.1 %
BM	30° -- 60°	153.3 lm	23.8 %	23.8 %
BH	60° -- 80°	41.7 lm	6.5 %	6.5 %
BVH	80° -- 90°	3.5 lm	0.5 %	0.5 %
UL	90° -- 100°	0.1 lm	0.0 %	0.0 %
UH	100° -- 180°	0.8 lm	0.1 %	0.1 %
TOTALS		643.0 lm	100.0 %	100.0 %
BUG B1 U1 G0		Type V Very Short		Quadrilateral Symmetry

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Source Flux	643 lm	Maximum value	369.59 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]*

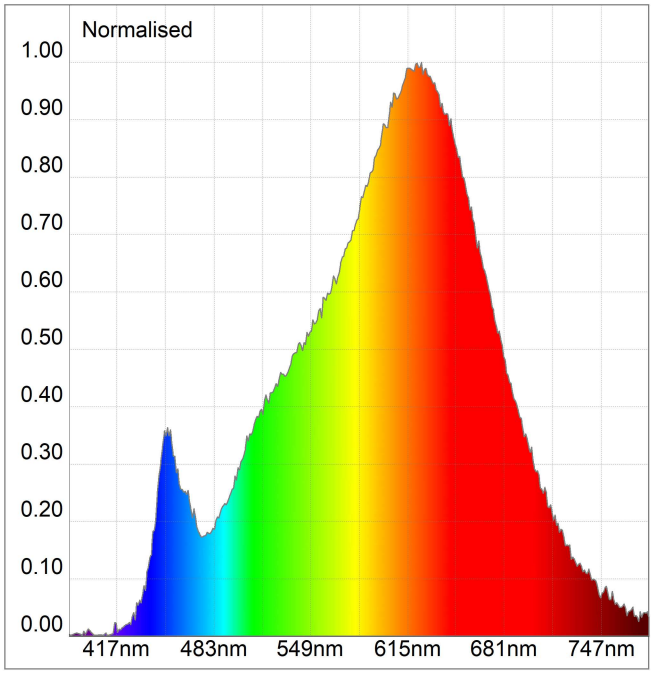
CRI8(Ra) [92.7]* CRI15(Rav) [90.2]*

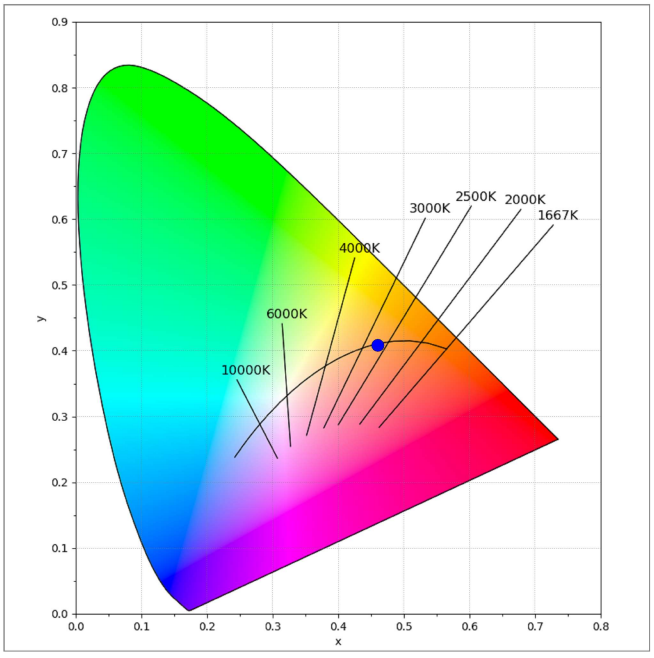
R 1: 93.1	R 2: 97.3	R 3: 98.5	R 4: 92.7	R 5: 93.2
R 6: 96.9	R 7: 90.3	R 8: 79.6	R 9: 56.9	R10: 93.1
R11: 94.2	R12: 85.6	R13: 94.4	R14: 99.4	R15: 88.5

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

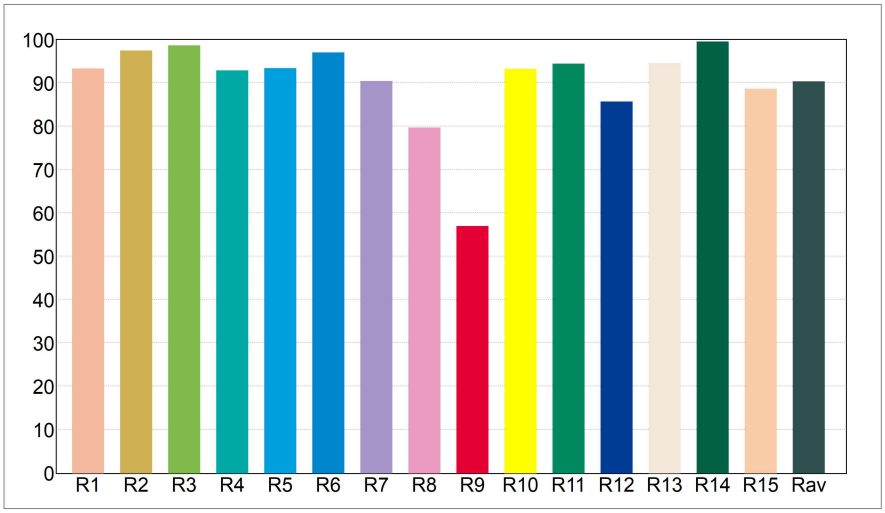


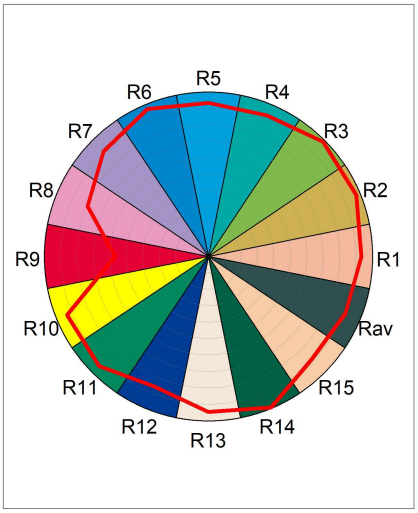


Luminaire
Code 36502214014U
Name FANALET S49 TRIAC
Measurem.
Code CL092A24D016GP
Name FANALET S49 TRIAC

Luminaire Flux	643 lm	Luminaire Power	26.9 W	Efficacy	23.948 lm/W	Efficiency	100.00%
Source Flux	643 lm	Maximum value	369.59 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

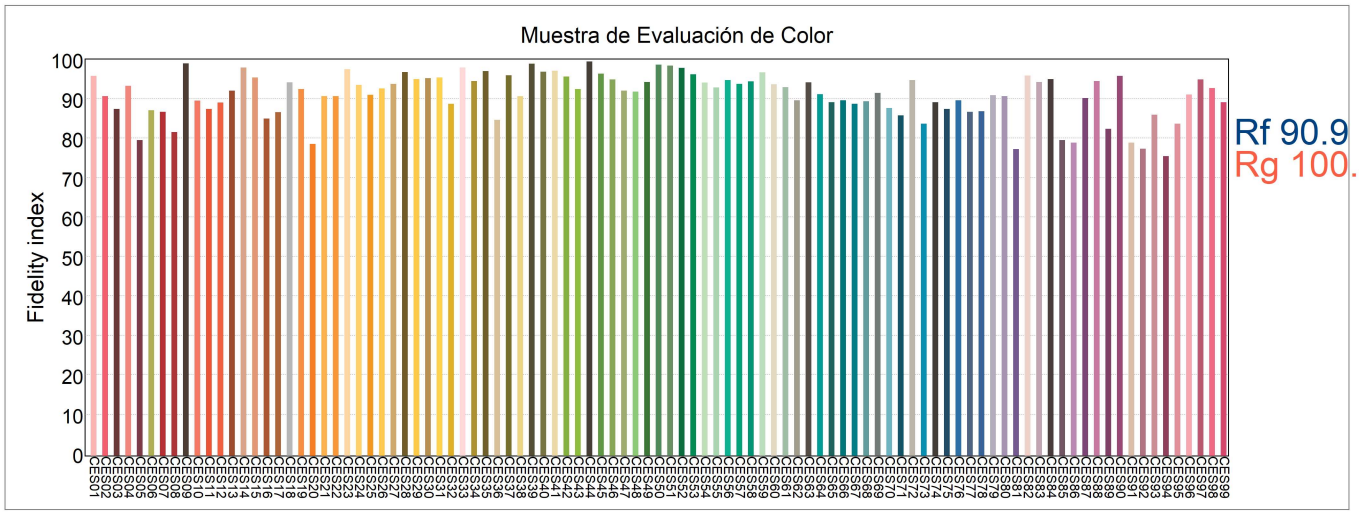
CRI Graphs



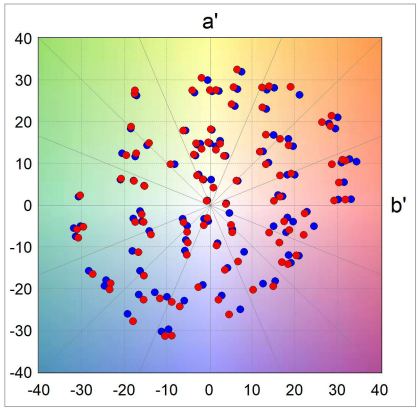


Luminaire
Code 36502214014U
Name FANALET S49 TRIAC
Measurem.
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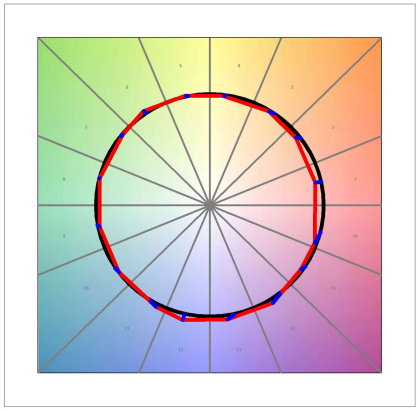
Luminaire Flux	643 lm	Luminaire Power	26.9 W	Efficacy	23.948 lm/W	Efficiency	100.00%
Source Flux	643 lm	Maximum value	369.59 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical



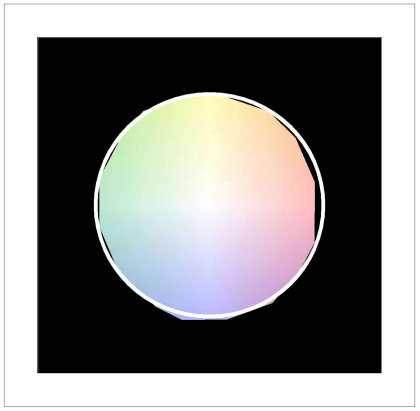
Chromatic Coordinates (a', b') 99 CES



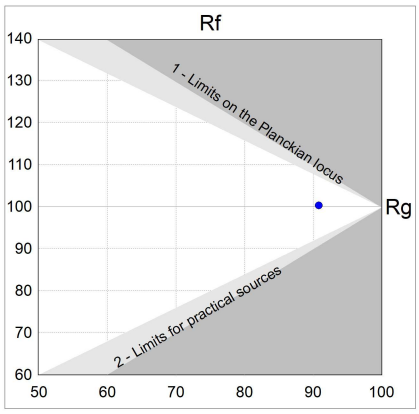
Color Vector Graphic



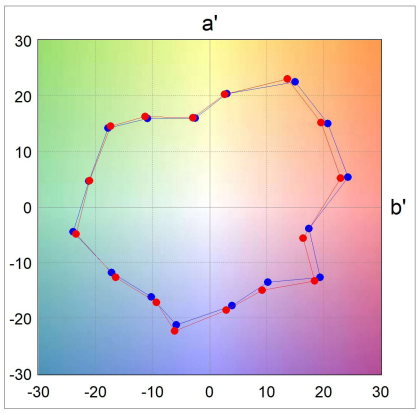
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

