Luminaire

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

Measurem.

Code	CL092A24D017GP
Name	FANALET S49 0-10V DIRECT

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	347.0 lm
Maximum	847.59 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	20.05 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 %		

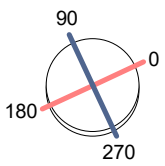
Luminaire Dimensions

Round Luminaire	Diam.	490 mm	Height	170 mm	
Round Luminous Area	Diam.	100 mm	Height	0 mm	
Horizontal Luminous Area		0.007854 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°		0.001900 m2

Photometric Assessment

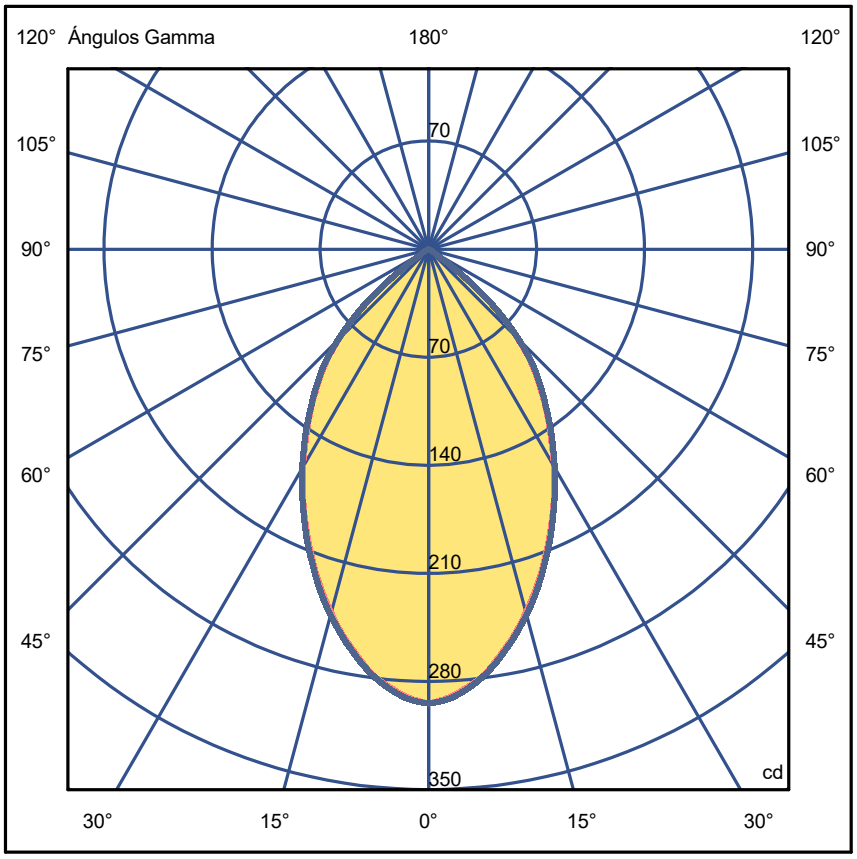
Luminaire Flux	347.0 lm	Source Flux	347.0 lm
Efficacy	17.307 lm/W	Efficiency	100.0 %
CIE Flux Codes	80 99 100 100 100	D DIN 5040	A60
F UTE	1.00 B	B NBN	BZ 1

Diam=490mm





ULOR 0.00 %
DLOR100.00 %
RN 0.00 %



Luminaire
Code 36502204014U
Name FANALET S49 0-10V DIRECT
Measurem.
Code CL092A24D017GP
Name FANALET S49 0-10V DIRECT

Luminaire Flux	347 lm	Luminaire Power	20.1 W	Efficacy	17.307 lm/W	Efficiency	100.00%
Source Flux	347 lm	Maximum value	294.11 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

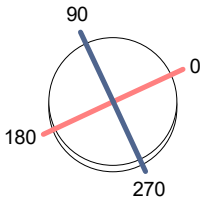
Luminous Intensity Table cd **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	294	294	294	294	294	294	294
G 2.5	291	291	292	292	292	292	292
G 5.0	285	286	286	287	286	287	286
G 7.5	278	278	278	278	278	279	278
G 10.0	267	268	268	268	268	268	268
G 12.5	256	257	257	257	257	258	257
G 15.0	244	245	245	245	245	245	245
G 17.5	231	232	232	232	232	232	233
G 20.0	218	218	219	219	219	219	219
G 22.5	204	205	205	205	205	205	205
G 25.0	190	191	191	191	191	191	191
G 27.5	176	177	177	177	177	178	177
G 30.0	163	163	163	163	163	164	164
G 32.5	148	149	149	149	150	150	150
G 35.0	135	136	136	136	136	136	136
G 37.5	122	122	123	123	124	123	123
G 40.0	110	110	110	110	111	111	111
G 42.5	97	97	98	98	98	98	99
G 45.0	82	82	82	82	83	83	83
G 47.5	65	65	65	65	65	65	66
G 50.0	47	47	47	47	47	47	47
G 52.5	27	27	27	27	27	27	27
G 55.0	10	10	10	11	11	11	10
G 57.5	5	5	5	5	5	5	5
G 60.0	4	4	4	4	4	4	4
G 62.5	3	3	3	3	3	3	3
G 65.0	2	2	2	2	2	2	2
G 67.5	1	1	1	1	1	1	1
G 70.0	1	1	1	1	1	1	1
G 72.5	0	0	0	0	0	0	0
G 75.0	0	0	0	0	0	0	0
G 77.5	0	0	0	0	0	0	0
G 80.0	0	0	0	0	0	0	0
G 82.5	0	0	0	0	0	0	0
G 85.0	0	0	0	0	0	0	0
G 87.5	0	0	0	0	0	0	0
G 90.0	0	0	0	0	0	0	0
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 DIRECT
Measurem.
Code CL092A24D017GP
Name FANALET S49 0-10V DIRECT

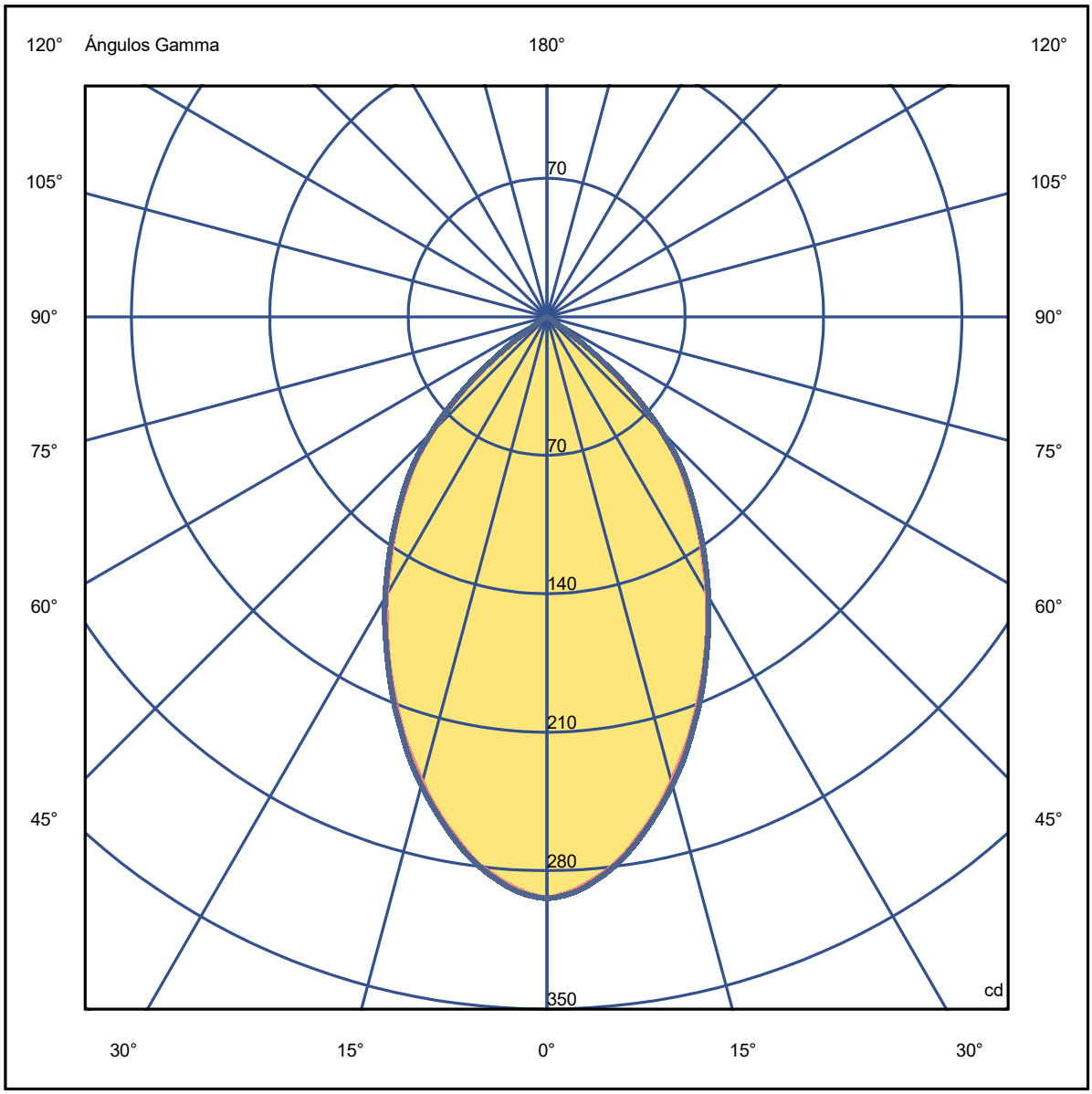
Luminaire Flux	347 lm	Luminaire Power	20.1 W	Efficacy	17.307 lm/W	Efficiency	100.00%
Source Flux	347 lm	Maximum value	294.11 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=490mm



Semiplanos C

180.0 0.0
270.0 90.0



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Code CL092A24D017GP
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Luminaire Flux	347 lm	Luminaire Power	20.1 W	Efficacy	17.307 lm/W	Efficiency	100.00%
Source Flux	347 lm	Maximum value	294.11 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	17.8	18.6	18.0	18.9	19.0	17.8	18.7	18.1	18.9	19.1
x=2H y=3H	17.6	18.4	17.9	18.7	18.9	17.7	18.5	18.0	18.7	18.9
x=2H y=4H	17.6	18.3	17.9	18.5	18.8	17.6	18.3	17.9	18.6	18.9
x=2H y=6H	17.5	18.2	17.8	18.4	18.7	17.5	18.2	17.9	18.5	18.8
x=2H y=8H	17.4	18.1	17.8	18.4	18.7	17.5	18.1	17.8	18.4	18.7
x=2H y=12H	17.4	18.0	17.8	18.3	18.6	17.5	18.1	17.8	18.4	18.7
x=4H y=2H	17.6	18.3	17.9	18.6	18.8	17.6	18.3	17.9	18.6	18.9
x=4H y=3H	17.4	18.0	17.8	18.3	18.7	17.5	18.1	17.8	18.4	18.7
x=4H y=4H	17.4	17.9	17.8	18.2	18.6	17.4	17.9	17.8	18.3	18.6
x=4H y=6H	17.3	17.7	17.7	18.1	18.5	17.3	17.8	17.7	18.2	18.5
x=4H y=8H	17.3	17.7	17.7	18.0	18.4	17.3	17.7	17.7	18.1	18.5
x=4H y=12H	17.2	17.6	17.7	18.0	18.4	17.3	17.6	17.7	18.0	18.4
x=8H y=4H	17.3	17.7	17.7	18.0	18.4	17.3	17.7	17.7	18.1	18.5
x=8H y=6H	17.2	17.5	17.6	17.9	18.4	17.2	17.5	17.7	18.0	18.4
x=8H y=8H	17.1	17.4	17.6	17.8	18.3	17.2	17.5	17.6	17.9	18.4
x=8H y=12H	17.1	17.3	17.6	17.8	18.3	17.1	17.4	17.6	17.8	18.3
x=12H y=4H	17.2	17.6	17.7	18.0	18.4	17.3	17.6	17.7	18.0	18.4
x=12H y=6H	17.1	17.4	17.6	17.8	18.3	17.2	17.5	17.6	17.9	18.4
x=12H y=8H	17.1	17.3	17.6	17.8	18.3	17.1	17.4	17.6	17.8	18.3

Luminaire
Code 36502204014U
Name FANALET S49 0-10V DIRECT
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Code CL092A24D017GP
Name FANALET S49 0-10V DIRECT

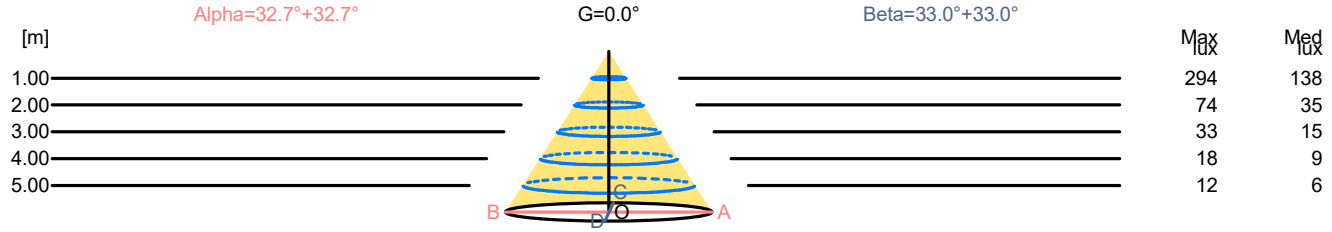
Luminaire Flux	347 lm	Luminaire Power	20.1 W	Efficacy	17.307 lm/W	Efficiency	100.00%
Source Flux	347 lm	Maximum value	294.11 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	0.64	1.29	1.93	2.57	3.21	OC	0.65	1.30	1.95	2.60	3.25
OB	0.64	1.29	1.93	2.57	3.21	OD	0.65	1.30	1.95	2.60	3.25

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	294.11	284.95	243.68	190.15	135.46	81.98	10.47	1.74	0.25	0.05
OB	294.11	284.95	243.68	190.15	135.46	81.98	10.47	1.74	0.25	0.05
OC	294.11	285.90	245.05	190.81	136.37	82.71	10.31	1.78	0.24	0.05
OD	294.11	285.90	245.05	190.81	136.37	82.71	10.31	1.78	0.24	0.05



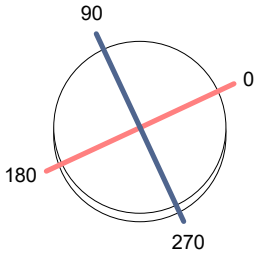
H[m]	D[m]	Max lux	Med lux	Alpha=32.7°+32.7° G=0.0
1.00	1.29	294	138	
2.00	2.57	74	35	
3.00	3.86	33	15	
4.00	5.14	18	9	
5.00	6.43	12	6	

H[m]	D[m]	Max lux	Med lux	Beta=33.0°+33.0° G=0.0
1.00	1.30	294	138	
2.00	2.60	74	35	
3.00	3.89	33	15	
4.00	5.19	18	9	
5.00	6.49	12	6	

Luminaire
Code 36502204014U
Name FANALET S49 0-10V DIRECT
Measurem.
Code CL092A24D017GP
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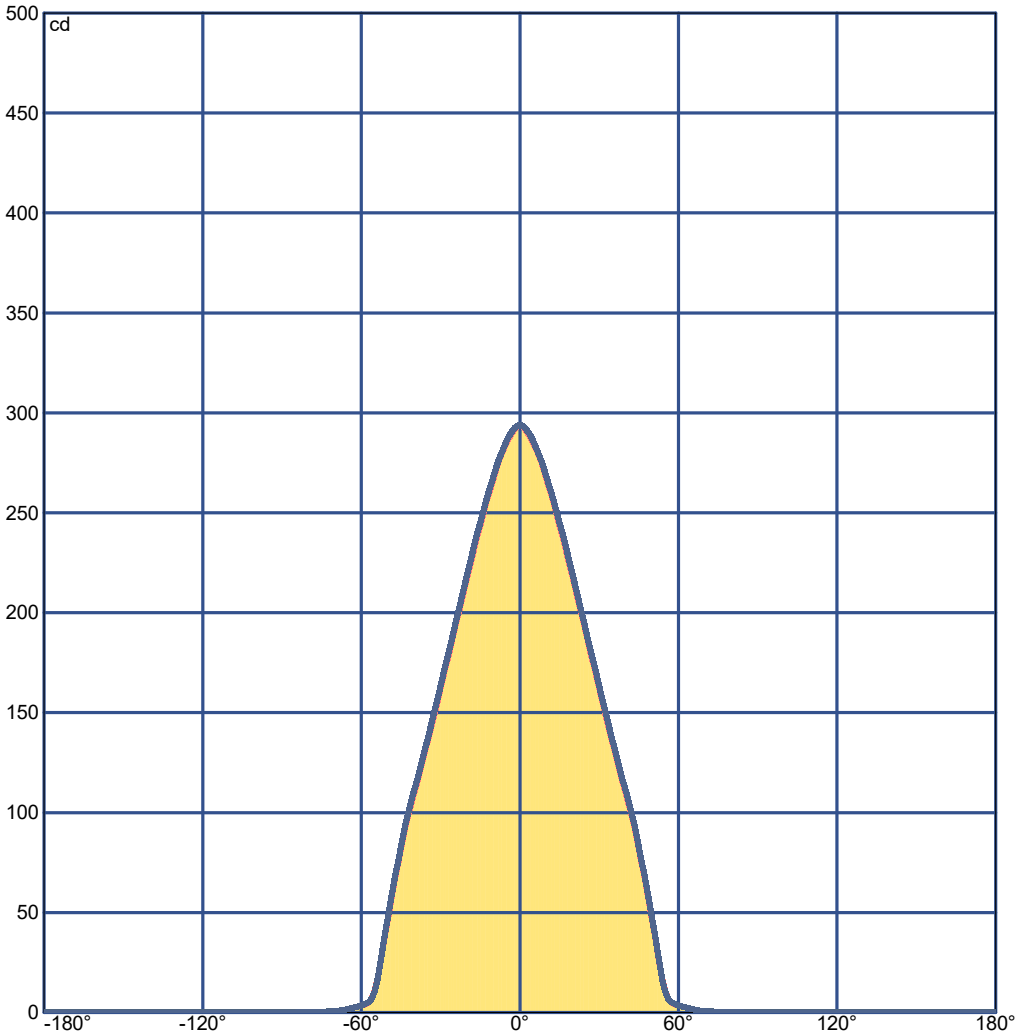
Luminaire Flux	347 lm	Luminaire Power	20.1 W	Efficacy	17.307 lm/W	Efficiency	100.00%
Source Flux	347 lm	Maximum value	294.11 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=490mm



Semiplanos C





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Measurem.
Code CL092A24D017GP
Name FANALET S49 0-10V DIRECT

Luminaire Flux	347 lm	Luminaire Power	20.1 W	Efficacy	17.307 lm/W	Efficiency	100.00%
Source Flux	347 lm	Maximum value	294.11 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Flujo Total=347.00 Flujo Luminaria=347.00

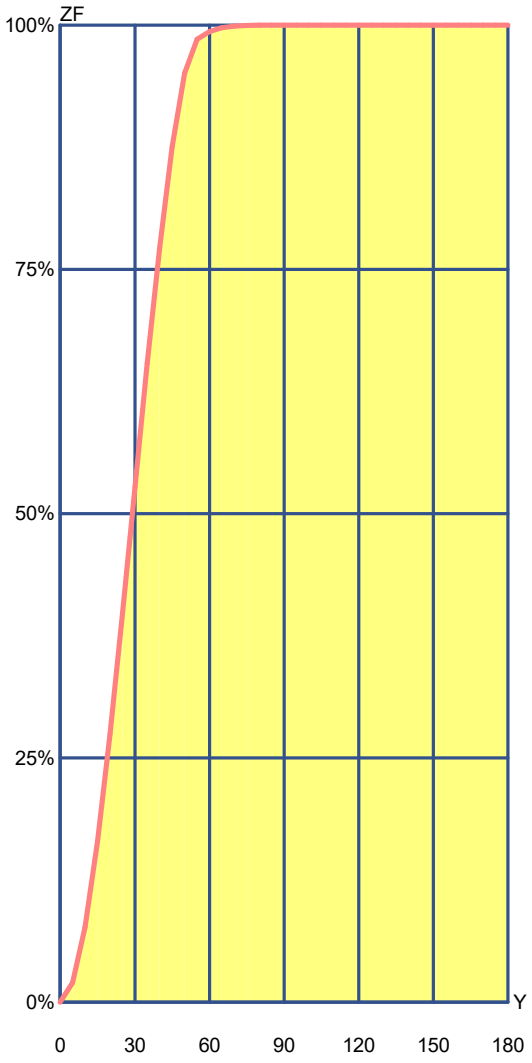
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.56	0.64	0.70	0.76	0.80	0.86	0.90	0.92	0.94	0.95	0.98	0.99
RC	1	-	-	-	-	-	-	-	-	-	-	-

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)	77	275	527	772	951	994	999	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.
80 99 100 100 100

C.I.E.	1/-/-/-/-/-/-/-/-/-/-	LOR	100.00007 %
D DIN 5040	A60	ULOR	0.00007 %
F UTE	1.00 B	DLOR	100.00000 %
B NBN	BZ 1	UFF	0.00007 %
RN	0.00007 %	DFF	99.99993 %
BLF	1.0	FFR	0.00007 %



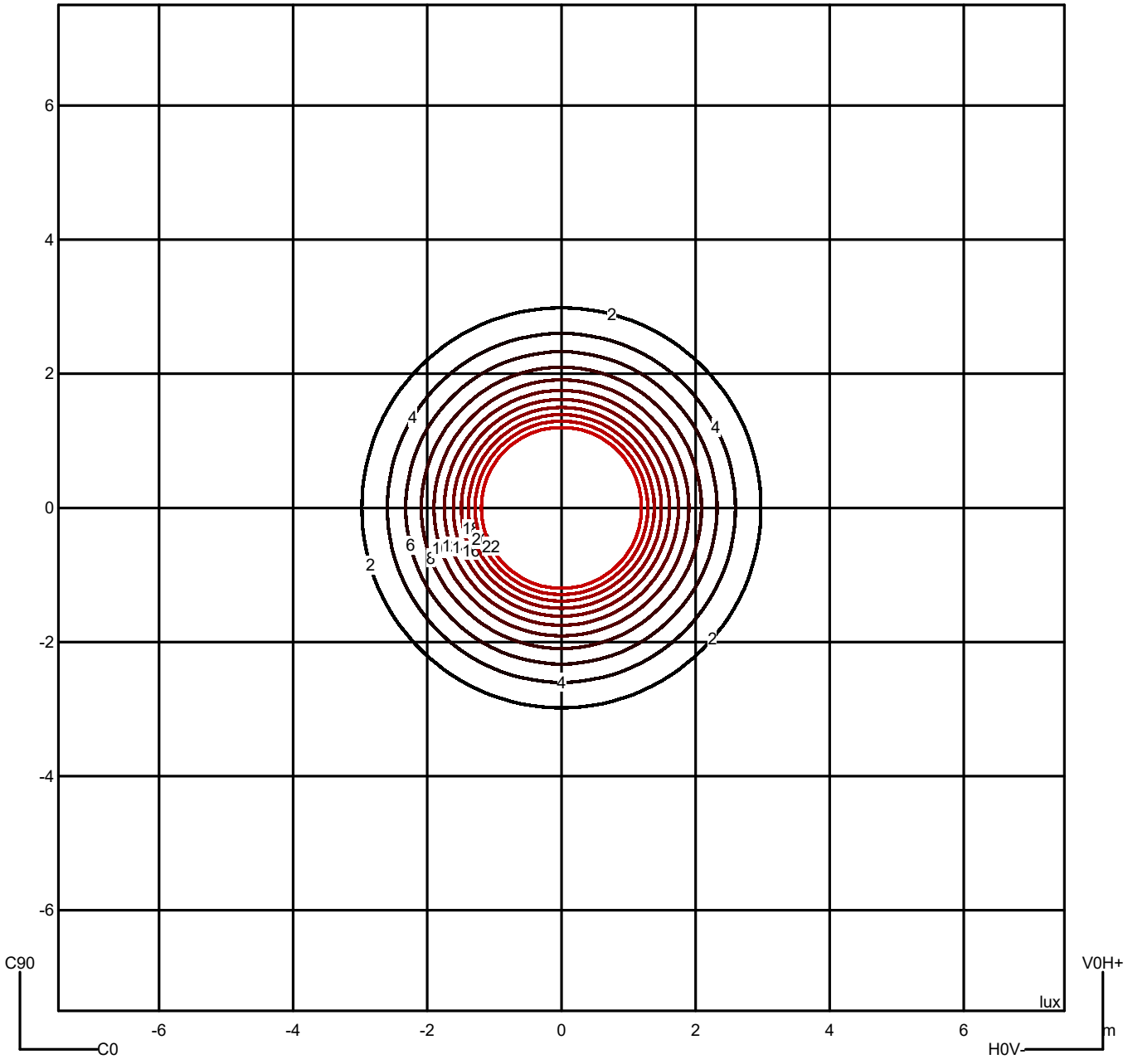
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	19.98	19.98	2.00 %	2.00 %
10°	57.08	77.06	5.71 %	7.71 %
15°	87.61	164.67	8.76 %	16.47 %
20°	109.93	274.59	10.99 %	27.46 %
25°	123.58	398.17	12.36 %	39.82 %
30°	128.91	527.08	12.89 %	52.71 %
35°	126.66	653.74	12.67 %	65.37 %
40°	118.22	771.96	11.82 %	77.20 %
45°	103.46	875.43	10.35 %	87.54 %
50°	75.50	950.92	7.55 %	95.09 %
55°	34.68	985.60	3.47 %	98.56 %
60°	7.91	993.50	0.79 %	99.35 %
65°	3.64	997.15	0.36 %	99.71 %
70°	1.69	998.83	0.17 %	99.88 %
75°	0.70	999.53	0.07 %	99.95 %
80°	0.29	999.82	0.03 %	99.98 %
85°	0.15	999.97	0.01 %	100.00 %
90°	0.03	1000.00	0.00 %	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 %

Luminaire
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Luminaire Flux	347 lm	Luminaire Power	20.1 W	Efficacy	17.307 lm/W	Efficiency	100.00%
Source Flux	347 lm	Maximum value	294.11 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

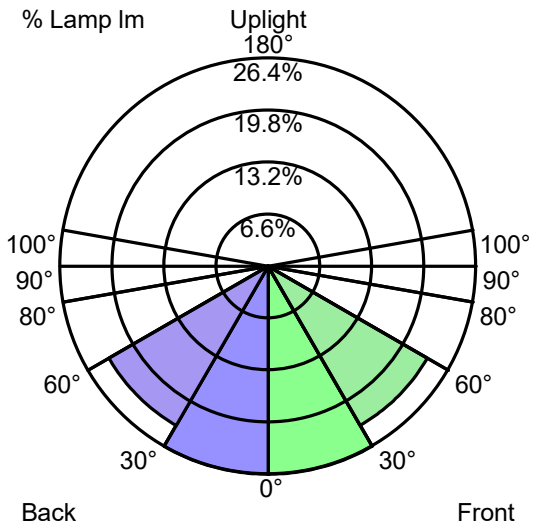
Luminaire position X=0.00m Y=0.00m Z=2.50m

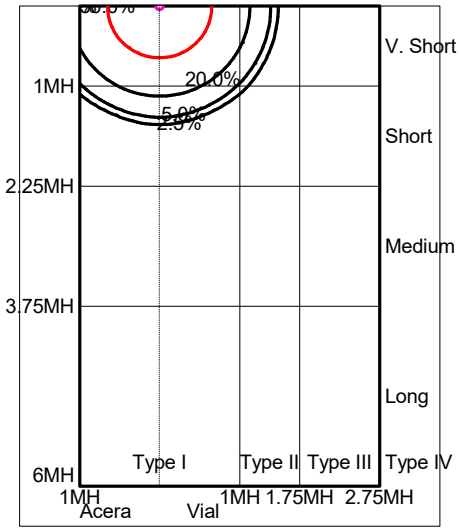


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Source Flux	347 lm	Maximum value	294.11 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

US ROAD STANDARDS





Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	91.5 lm	26.4 %	26.4 %
FM	30° -- 60°	80.9 lm	23.3 %	23.3 %
FH	60° -- 80°	1.1 lm	0.3 %	0.3 %
FVH	80° -- 90°	0.0 lm	0.0 %	0.0 %
BL	0° -- 30°	91.5 lm	26.4 %	26.4 %
BM	30° -- 60°	80.9 lm	23.3 %	23.3 %
BH	60° -- 80°	1.1 lm	0.3 %	0.3 %
BVH	80° -- 90°	0.0 lm	0.0 %	0.0 %
UL	90° -- 100°	0.0 lm	0.0 %	0.0 %
UH	100° -- 180°	0.0 lm	0.0 %	0.0 %
TOTALS		347.0 lm	100.0 %	100.0 %
BUG B0 U1 G0		Type V Very Short		Quadrilateral Symmetry

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Source Flux	347 lm	Maximum value	294.11 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]*

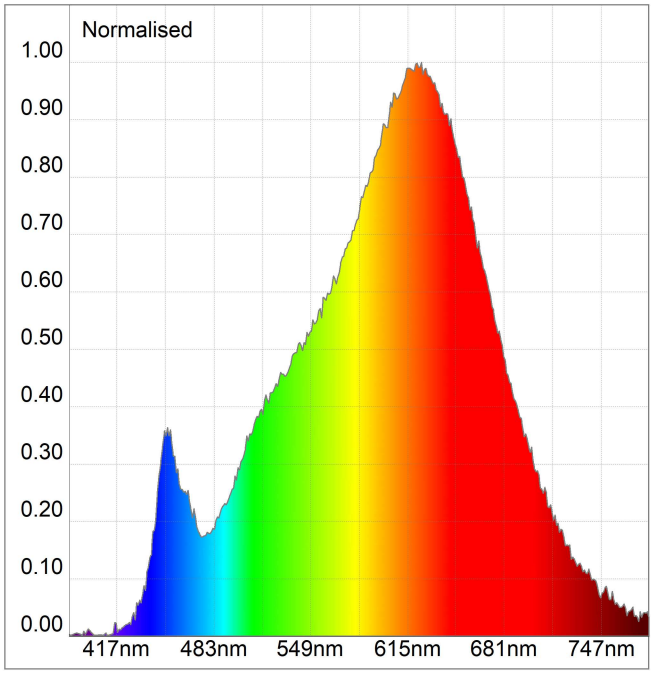
CRI8(Ra) [92.7]* CRI15(Rav) [90.2]*

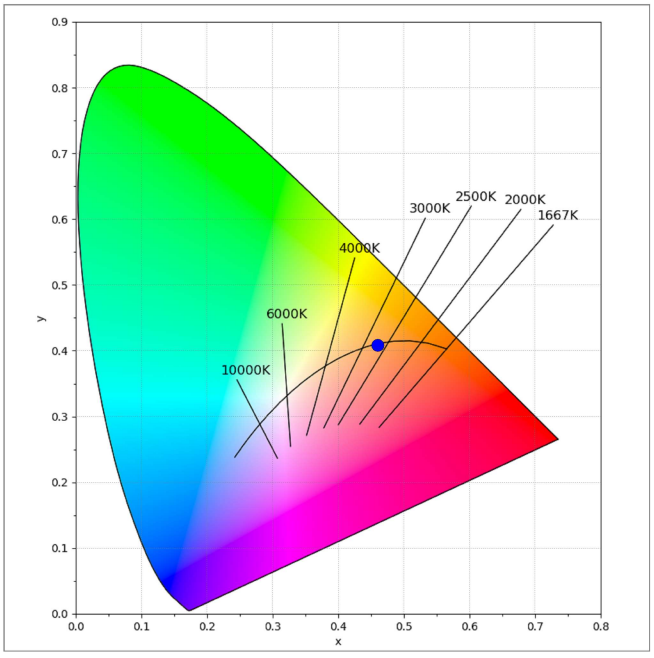
R 1: 93.1	R 2: 97.3	R 3: 98.5	R 4: 92.7	R 5: 93.2
R 6: 96.9	R 7: 90.3	R 8: 79.6	R 9: 56.9	R10: 93.1
R11: 94.2	R12: 85.6	R13: 94.4	R14: 99.4	R15: 88.5

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

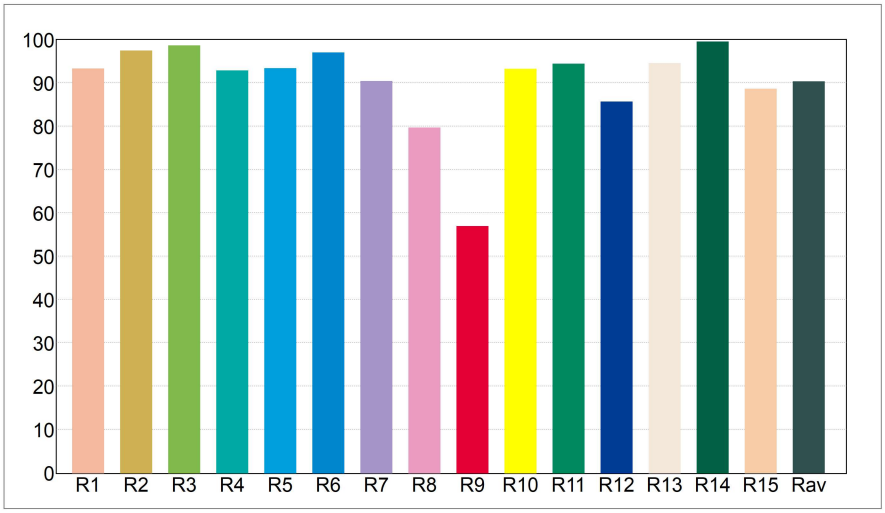


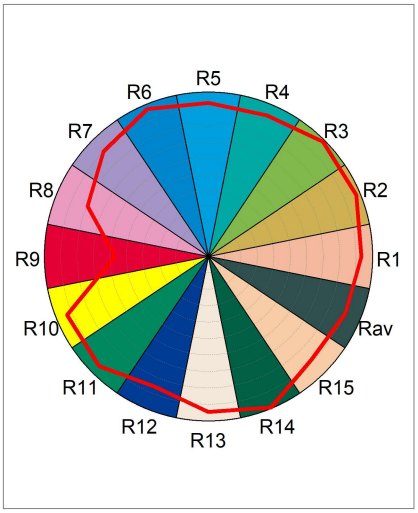


Luminaire
Code 36502204014U
Name FANALET S49 0-10V DIRECT
Measurem.
Code CL092A24D017GP
Name FANALET S49 0-10V DIRECT

Luminaire Flux	347 lm	Luminaire Power	20.1 W	Efficacy	17.307 lm/W	Efficiency	100.00%
Source Flux	347 lm	Maximum value	294.11 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

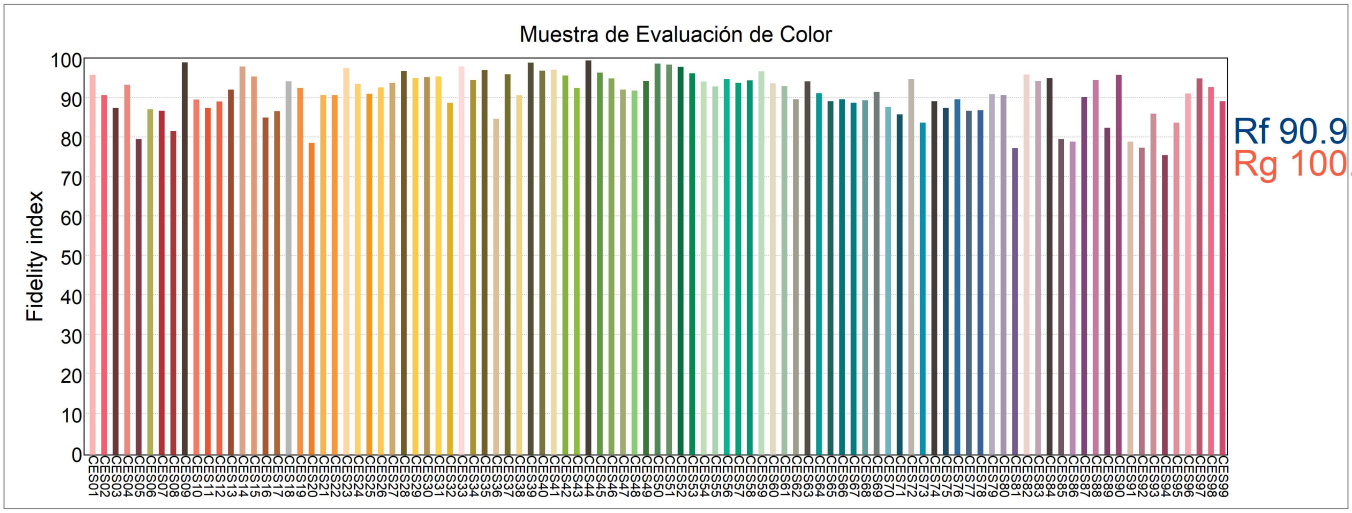
CRI Graphs



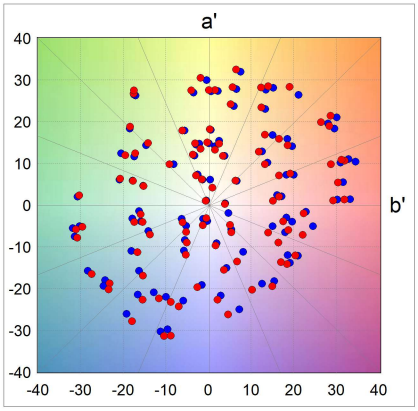


Luminaire
Code 36502204014U
Name FANALET S49 0-10V DIRECT
Measurem.
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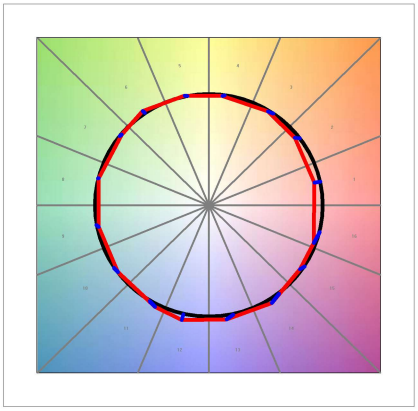
Luminaire Flux	347 lm	Luminaire Power	20.1 W	Efficacy	17.307 lm/W	Efficiency	100.00%
Source Flux	347 lm	Maximum value	294.11 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical



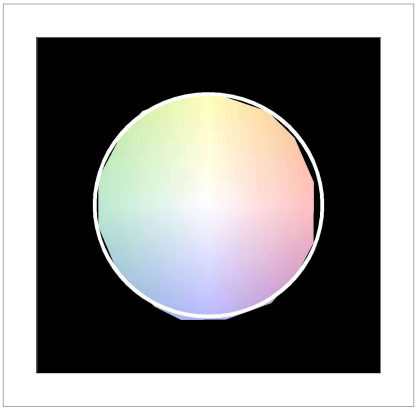
Chromatic Coordinates (a', b') 99 CES



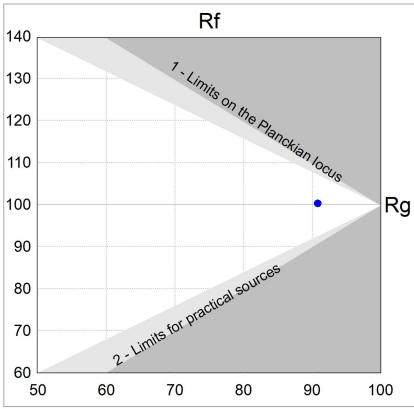
Color Vector Graphic



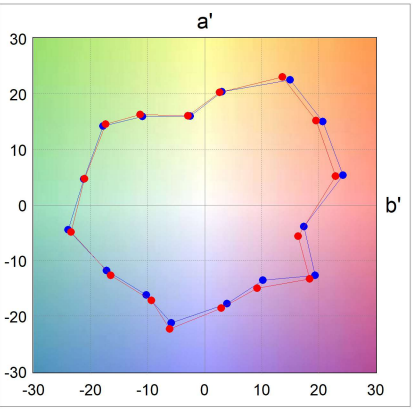
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

