



Report of Test

LLIA001067-006A

Catalog Number: 3-567-115 Ellipse Sconce with Glass Enclosure
Surface wall mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white glass enclosure.
12 white LEDs, one Harvard Engineering LEDENG-163-930 LED board
One ERP ESS010W-0180-42 dimmable LED driver.
120.0Vac, 60.00Hz, 0.0600A, 7.10W, 0.987PF, 11.7%THD(i)



Performance Summary

Total Light Output	132 lm
Luminaire Power	7.10 W
Luminous Efficacy	18.6 lm/W

PREPARED FOR : Oxygen Lighting, 201 Railhead Road, Fort Worth, TX 76106, USA



Test Report No. LLIA001067-006A

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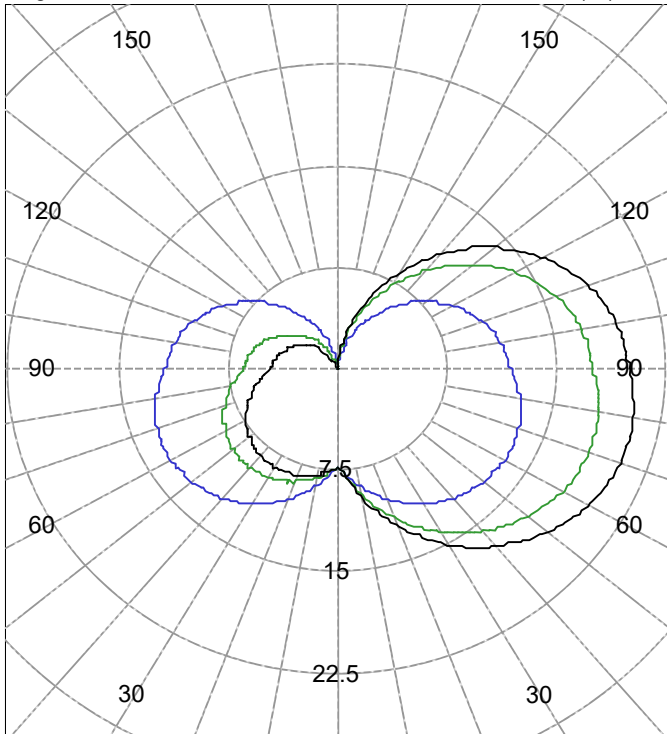
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120.0Vac, 60.00Hz, 0.0600A, 7.10W, 0.987PF, 11.7%THD(i)

Legend: C0/C180-Black, C45/C225-Green, C90/C270-Blue (cd)



(Symmetric about C0/C180)

AVERAGE LUMINANCE (cd/m²)

Gamma	C0	C45	C90
45.0	3030	2751	2151
55.0	3108	2800	2110
65.0	3195	2845	2079
75.0	3274	2895	2053
85.0	3364	2953	2028

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	7.3	7.3	7.3	7.3	7.3	
5.0	8.3	8.3	8.3	8.1	8.0	1
10.0	9.8	9.7	9.5	9.2	8.8	
15.0	11.2	11.0	10.7	10.2	9.6	3
20.0	12.5	12.3	11.8	11.1	10.3	
25.0	13.7	13.5	12.9	12.0	10.9	5
30.0	14.9	14.6	13.9	12.7	11.5	
35.0	16.0	15.7	14.8	13.5	12.0	8
40.0	17.0	16.6	15.6	14.1	12.4	
45.0	17.9	17.5	16.3	14.6	12.7	10
50.0	18.7	18.2	16.9	15.1	13.0	
55.0	19.4	18.8	17.4	15.4	13.1	12
60.0	19.9	19.3	17.8	15.7	13.2	
65.0	20.3	19.7	18.1	15.8	13.2	13
70.0	20.5	19.9	18.2	15.8	13.1	
75.0	20.6	19.9	18.2	15.7	12.9	14
80.0	20.5	19.8	18.1	15.5	12.6	
85.0	20.2	19.6	17.8	15.2	12.2	13
90.0	19.8	19.2	17.4	14.8	11.8	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	9	N / A	6.5
0-40	16	N / A	12.3
0-60	38	N / A	28.8
0-90	79	N / A	59.5
40-90	62	N / A	47.2
60-90	41	N / A	30.6
90-180	54	N / A	40.5
0-180	132	N / A	100.0

Total Light Output = 132 lm

Spacing Criterion: 0-180 2.9
Spacing Criterion: 90-270 2.3

Signed:

Authorized Signatory

Date of test 21-Jan-2019
Date of report 24-Jan-2019



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Surface wall mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white glass enclosure.

12 white LEDs, one Harvard Engineering LEDENG-163-930 LED board

One ERP ESS010W-0180-42 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0600A, 7.10W, 0.987PF, 11.7%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	7.3	7.3	7.3	7.3	7.3
2.5	7.6	7.6	7.6	7.6	7.6
5.0	8.3	8.3	8.3	8.1	8.0
7.5	9.1	9.0	8.9	8.7	8.4
10.0	9.8	9.7	9.5	9.2	8.8
12.5	10.5	10.4	10.1	9.7	9.2
15.0	11.2	11.0	10.7	10.2	9.6
17.5	11.8	11.7	11.3	10.6	10.0
20.0	12.5	12.3	11.8	11.1	10.3
22.5	13.1	12.9	12.3	11.5	10.6
25.0	13.7	13.5	12.9	12.0	10.9
27.5	14.4	14.1	13.4	12.4	11.2
30.0	14.9	14.6	13.9	12.7	11.5
32.5	15.5	15.2	14.3	13.1	11.7
35.0	16.0	15.7	14.8	13.5	12.0
37.5	16.5	16.2	15.2	13.8	12.2
40.0	17.0	16.6	15.6	14.1	12.4
42.5	17.5	17.1	15.9	14.4	12.6
45.0	17.9	17.5	16.3	14.6	12.7
47.5	18.4	17.9	16.6	14.9	12.9
50.0	18.7	18.2	16.9	15.1	13.0
52.5	19.1	18.5	17.2	15.3	13.1
55.0	19.4	18.8	17.4	15.4	13.1
57.5	19.7	19.1	17.6	15.6	13.2
60.0	19.9	19.3	17.8	15.7	13.2
62.5	20.1	19.5	17.9	15.7	13.2
65.0	20.3	19.7	18.1	15.8	13.2
67.5	20.4	19.8	18.2	15.8	13.2
70.0	20.5	19.9	18.2	15.8	13.1
72.5	20.6	19.9	18.2	15.8	13.0
75.0	20.6	19.9	18.2	15.7	12.9
77.5	20.5	19.9	18.1	15.6	12.8
80.0	20.5	19.8	18.1	15.5	12.6
82.5	20.4	19.7	17.9	15.3	12.4
85.0	20.2	19.6	17.8	15.2	12.2
87.5	20.0	19.4	17.6	14.9	12.0
90.0	19.8	19.2	17.4	14.8	11.8



Test Report No. LLIA001067-006A

Catalog Number: 3-567-115 Ellipse Sconce with Glass Enclosure

Surface wall mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white glass enclosure.

12 white LEDs, one Harvard Engineering LEDENG-163-930 LED board

One ERP ESS010W-0180-42 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0600A, 7.10W, 0.987PF, 11.7%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	19.8	19.2	17.4	14.8	11.8
92.5	19.8	19.1	17.3	14.7	11.7
95.0	19.7	19.0	17.2	14.6	11.6
97.5	19.5	18.8	17.0	14.4	11.4
100.0	19.3	18.7	16.9	14.3	11.3
102.5	19.1	18.4	16.6	14.1	11.1
105.0	18.8	18.2	16.4	13.9	10.9
107.5	18.5	17.9	16.1	13.6	10.7
110.0	18.1	17.5	15.8	13.3	10.4
112.5	17.7	17.1	15.4	13.0	10.1
115.0	17.3	16.7	15.0	12.6	9.8
117.5	16.8	16.2	14.6	12.2	9.5
120.0	16.3	15.7	14.1	11.8	9.2
122.5	15.7	15.2	13.7	11.4	8.8
125.0	15.1	14.6	13.1	10.9	8.5
127.5	14.6	14.0	12.6	10.5	8.1
130.0	13.9	13.4	12.0	9.9	7.7
132.5	13.2	12.7	11.4	9.5	7.3
135.0	12.5	12.1	10.8	8.9	6.9
137.5	11.8	11.4	10.1	8.4	6.4
140.0	11.1	10.6	9.5	7.8	6.0
142.5	10.3	9.9	8.8	7.3	5.6
145.0	9.6	9.2	8.2	6.7	5.1
147.5	8.7	8.4	7.5	6.2	4.7
150.0	8.0	7.7	6.8	5.6	4.2
152.5	7.2	6.9	6.1	5.0	3.8
155.0	6.5	6.2	5.5	4.5	3.4
157.5	5.7	5.5	4.8	3.9	2.9
160.0	4.9	4.7	4.2	3.4	2.5
162.5	4.1	4.0	3.5	2.8	2.1
165.0	3.4	3.3	2.9	2.3	1.6
167.5	2.6	2.5	2.2	1.8	1.2
170.0	1.9	1.9	1.6	1.3	0.9
172.5	1.2	1.2	1.0	0.8	0.5
175.0	0.5	0.5	0.4	0.3	0.2
177.5	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0



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12 white LEDs, one Harvard Engineering LEDENG-163-930 LED board

One ERP ESS010W-0180-42 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0600A, 7.10W, 0.987PF, 11.7%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	7.3	7.3	7.3	7.3	7.3
2.5	7.6	7.6	7.5	7.5	7.5
5.0	8.0	7.9	7.8	7.7	7.7
7.5	8.4	8.2	8.0	7.9	7.8
10.0	8.8	8.5	8.2	8.0	7.9
12.5	9.2	8.8	8.4	8.1	8.1
15.0	9.6	9.0	8.6	8.3	8.1
17.5	10.0	9.3	8.7	8.4	8.2
20.0	10.3	9.5	8.9	8.5	8.3
22.5	10.6	9.7	9.0	8.5	8.4
25.0	10.9	9.9	9.1	8.6	8.4
27.5	11.2	10.1	9.2	8.6	8.4
30.0	11.5	10.3	9.3	8.7	8.4
32.5	11.7	10.4	9.3	8.7	8.4
35.0	12.0	10.6	9.4	8.7	8.4
37.5	12.2	10.7	9.4	8.6	8.3
40.0	12.4	10.7	9.4	8.6	8.3
42.5	12.6	10.8	9.4	8.5	8.2
45.0	12.7	10.9	9.4	8.5	8.1
47.5	12.9	10.9	9.4	8.4	8.0
50.0	13.0	11.0	9.3	8.2	7.9
52.5	13.1	11.0	9.2	8.1	7.7
55.0	13.1	10.9	9.2	8.0	7.6
57.5	13.2	10.9	9.0	7.8	7.4
60.0	13.2	10.8	8.9	7.6	7.2
62.5	13.2	10.8	8.7	7.5	7.0
65.0	13.2	10.7	8.6	7.3	6.8
67.5	13.2	10.6	8.4	7.1	6.6
70.0	13.1	10.5	8.2	6.9	6.4
72.5	13.0	10.3	8.0	6.7	6.2
75.0	12.9	10.1	7.9	6.5	6.0
77.5	12.8	9.9	7.6	6.2	5.7
80.0	12.6	9.7	7.4	6.0	5.5
82.5	12.4	9.5	7.2	5.7	5.3
85.0	12.2	9.2	6.9	5.5	5.0
87.5	12.0	9.0	6.6	5.2	4.7
90.0	11.8	8.8	6.5	5.0	4.6



Test Report No. LLIA001067-006A

Catalog Number: 3-567-115 Ellipse Sconce with Glass Enclosure

Surface wall mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white glass enclosure.

12 white LEDs, one Harvard Engineering LEDENG-163-930 LED board

One ERP ESS010W-0180-42 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0600A, 7.10W, 0.987PF, 11.7%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	11.8	8.8	6.5	5.0	4.6
92.5	11.7	8.7	6.4	5.0	4.5
95.0	11.6	8.6	6.3	4.9	4.4
97.5	11.4	8.5	6.2	4.8	4.4
100.0	11.3	8.3	6.1	4.7	4.3
102.5	11.1	8.2	6.0	4.6	4.2
105.0	10.9	8.0	5.9	4.5	4.1
107.5	10.7	7.9	5.7	4.4	4.0
110.0	10.4	7.7	5.6	4.3	3.9
112.5	10.1	7.4	5.4	4.2	3.8
115.0	9.8	7.2	5.2	4.0	3.6
117.5	9.5	7.0	5.0	3.9	3.5
120.0	9.2	6.7	4.8	3.7	3.4
122.5	8.8	6.5	4.7	3.6	3.2
125.0	8.5	6.2	4.4	3.4	3.0
127.5	8.1	5.9	4.2	3.2	2.9
130.0	7.7	5.6	4.0	3.1	2.7
132.5	7.3	5.3	3.8	2.9	2.6
135.0	6.9	5.0	3.5	2.7	2.4
137.5	6.4	4.7	3.3	2.5	2.2
140.0	6.0	4.3	3.1	2.2	1.9
142.5	5.6	4.0	2.8	1.7	1.3
145.0	5.1	3.7	2.6	1.5	0.8
147.5	4.7	3.3	2.3	1.4	0.6
150.0	4.2	3.0	2.1	1.1	0.4
152.5	3.8	2.6	1.8	0.8	0.0
155.0	3.4	2.3	1.4	0.6	0.0
157.5	2.9	2.0	1.0	0.4	0.0
160.0	2.5	1.7	0.8	0.2	0.0
162.5	2.1	1.4	0.6	0.1	0.0
165.0	1.6	1.1	0.5	0.0	0.0
167.5	1.2	0.8	0.3	0.0	0.0
170.0	0.9	0.6	0.2	0.1	0.0
172.5	0.5	0.3	0.1	0.0	0.0
175.0	0.2	0.1	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0



Test Number: LLIA001067-006A

Catalog Number: 3-567-115 Ellipse Sconce with Glass Enclosure

Surface wall mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white glass enclosure.

12 white LEDs, one Harvard Engineering LEDENG-163-930 LED board

One ERP ESS010W-0180-42 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0600A, 7.10W, 0.987PF, 11.7%THD(i)

Coefficients Of Utilization - Zonal Cavity Method

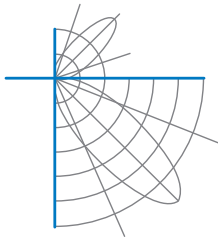
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	59
1	95	88	82	77	88	82	77	72	70	66	62	59	56	53	49	47	44	39
2	84	74	66	59	78	69	61	55	58	53	47	49	44	40	40	37	34	29
3	76	63	54	47	70	59	50	44	50	43	38	42	36	32	34	30	26	22
4	68	55	45	38	63	51	42	36	43	36	31	36	31	26	30	25	21	18
5	62	48	39	32	57	45	36	30	38	31	26	32	26	22	26	21	18	14
6	57	43	34	27	52	40	31	25	34	27	22	28	23	18	23	19	15	12
7	53	38	29	23	48	36	27	21	30	24	19	26	20	16	21	16	13	10
8	49	35	26	20	45	32	24	19	28	21	16	23	18	14	19	15	11	9
9	45	31	23	17	42	29	22	16	25	19	14	21	16	12	18	13	10	8
10	42	29	21	15	39	27	19	14	23	17	13	20	14	11	16	12	9	7

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	0.2	13.72	13.86
8.0	0.1	18.29	18.48
10.0	0.1	22.86	23.10
12.0	0.1	27.43	27.72
14.0	0.0	32.01	32.34
16.0	0.0	36.58	36.96



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Test Distance 9.5 m
Test Temperature 25.2 °C

Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2015, ANSI C82.77-10:2014.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE Gamma coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with * are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.



Report of Test

LLIA001067-006B

Integrating Sphere Report

Catalog Number: 3-567-115 Ellipse Sconce with Glass Enclosure

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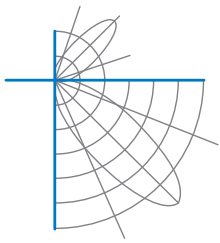
Performance Summary

Voltage	120.0 Vac
Current	0.0600 A
Power	7.11 W
Frequency	59.99 Hz
Power Factor	0.987
Current THD	11.7 %

Total Luminous Flux	131.7 lm
Efficacy	18.5 lm/W
Chromaticity (x,y)	(0.4407, 0.4004)
(u',v')	(0.2547, 0.5205)
Duv	-0.0020
CCT	2906 K
CRI (Ra)	97
R9	83
TM-30: Rf	92
TM-30: Rg	100

Prepared For:
Oxygen Lighting
201 Railhead Road
Fort Worth, TX 76106, USA

Test date: 01/21/2019
Report date: 01/24/2019



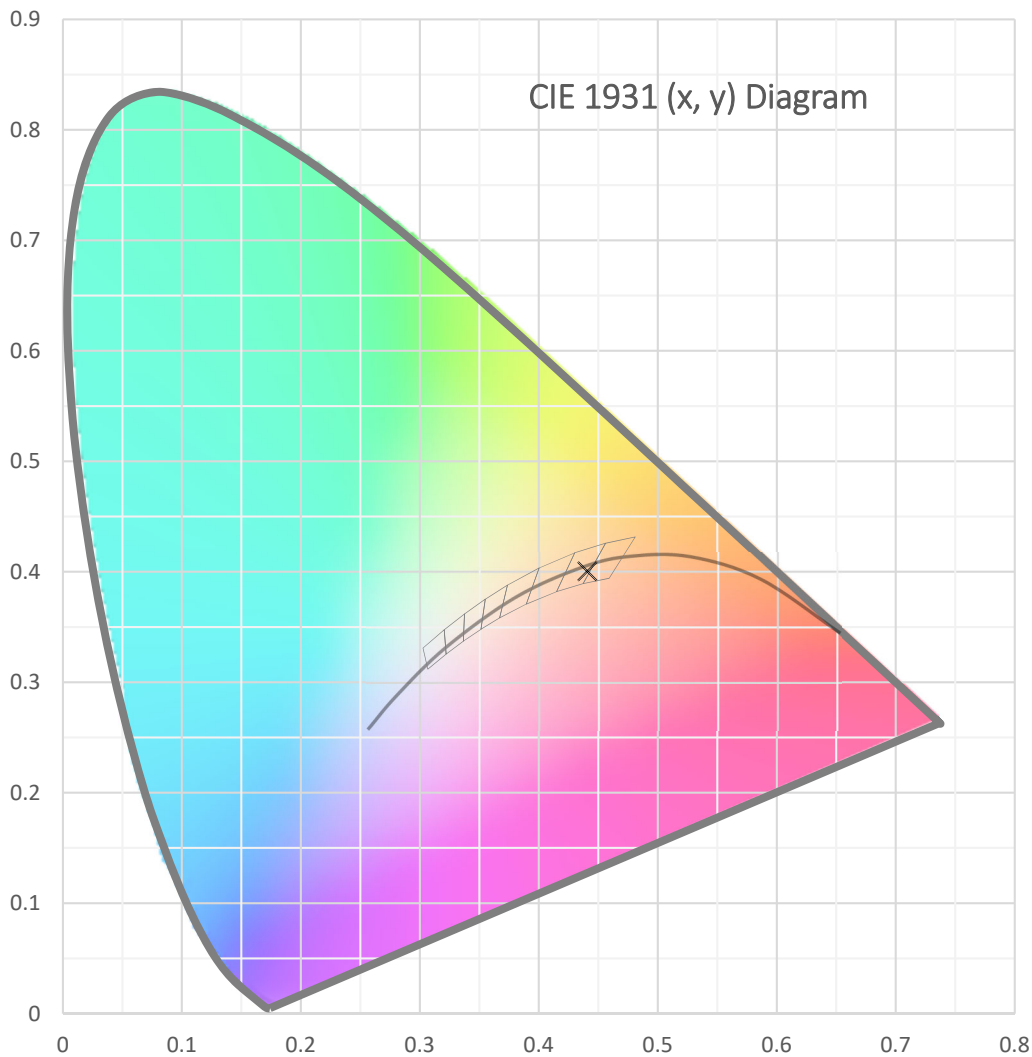
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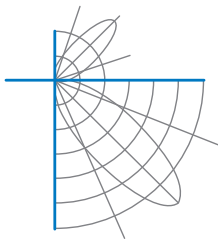
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12 white LEDs, one Harvard Engineering LEDENG-163-930 LED board

One ERP ESS010W-0180-42 dimmable LED driver.





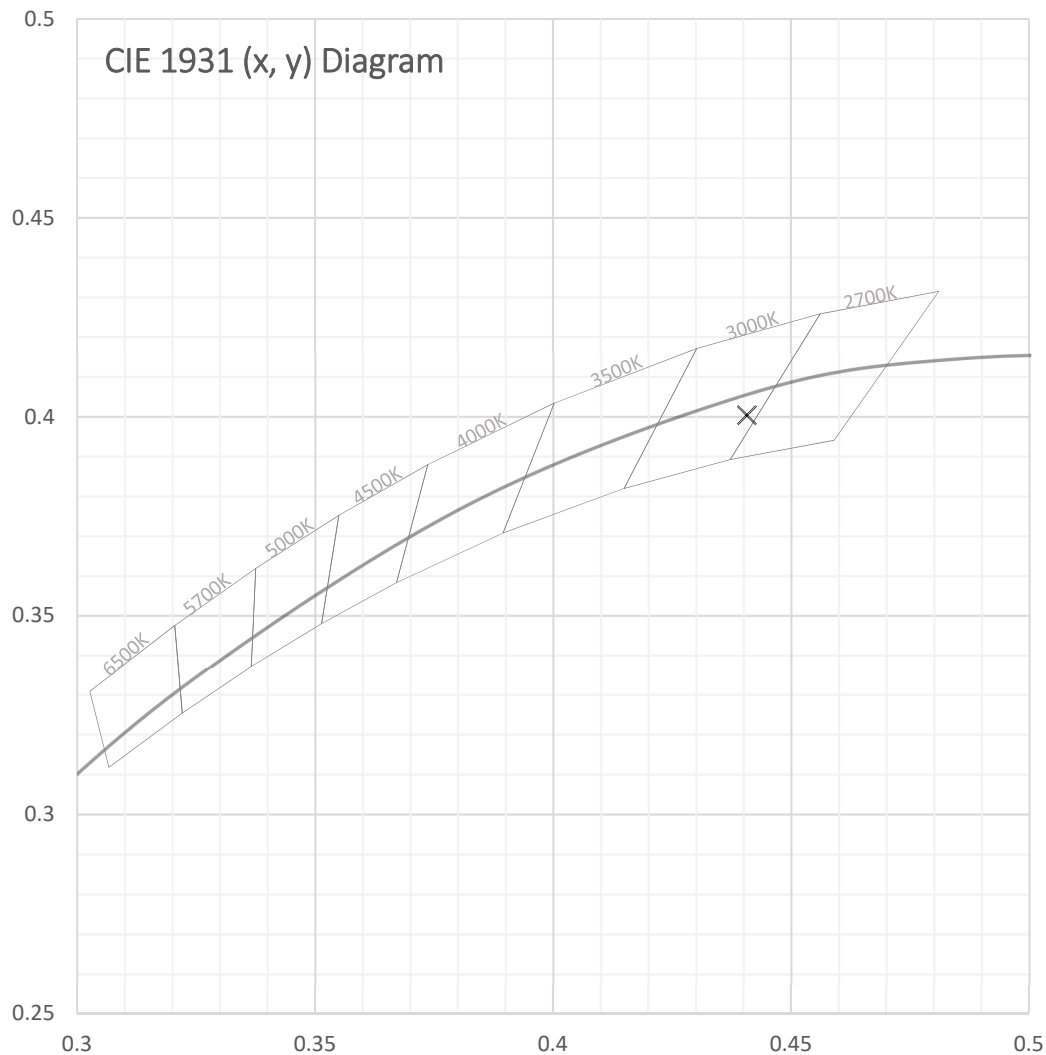
Test Report Number: LLIA001067-006B

Catalog Number: 3-567-115 Ellipse Sconce with Glass Enclosure

Surface wall mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white glass enclosure.

12 white LEDs, one Harvard Engineering LEDENG-163-930 LED board

One ERP ESS010W-0180-42 dimmable LED driver.





Test Report Number: LLIA001067-006B

Catalog Number: 3-567-115 Ellipse Sconce with Glass Enclosure

Surface wall mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white glass enclosure.

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Spectral Data	Total Radiant Flux	0.499 W
	Total Luminous Flux	131.7 Lm
	Chromaticity CIE 1931 (x, y)	(0.4407, 0.4004)
	Chromaticity CIE 1976 (u', v')	(0.2547, 0.5205)
	Correlated Color Temperature (CCT)	2906 K
	Color Rendering Index (Ra)	97
	R1	98
	R2	99
	R3	97
	R4	96
	R5	97
	R6	97
	R7	96
	R8	92
	R9	83
	R10	96
	R11	96
	R12	84
	R13	99
	R14	97
	TM-30: Rf	92
	TM-30: Rg	100
	Distance from Planckian Locus (Duv)	-0.0020
	Scotopic/Photopic Ratio *	1.413

Electrical Data

Voltage	120.0 Vac
Current	0.0600 A
Power	7.11 W
Frequency	59.99 Hz
Power Factor	0.987
Current THD	11.7 %



Test Report Number: LLIA001067-006B

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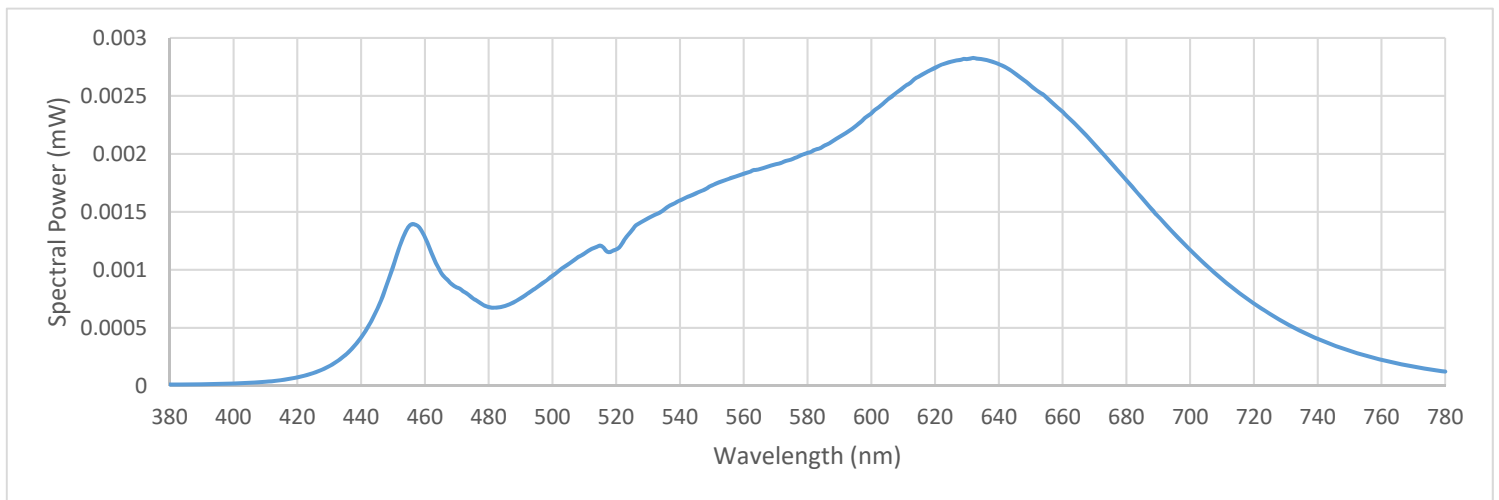
Surface wall mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white glass enclosure.

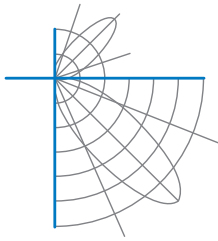
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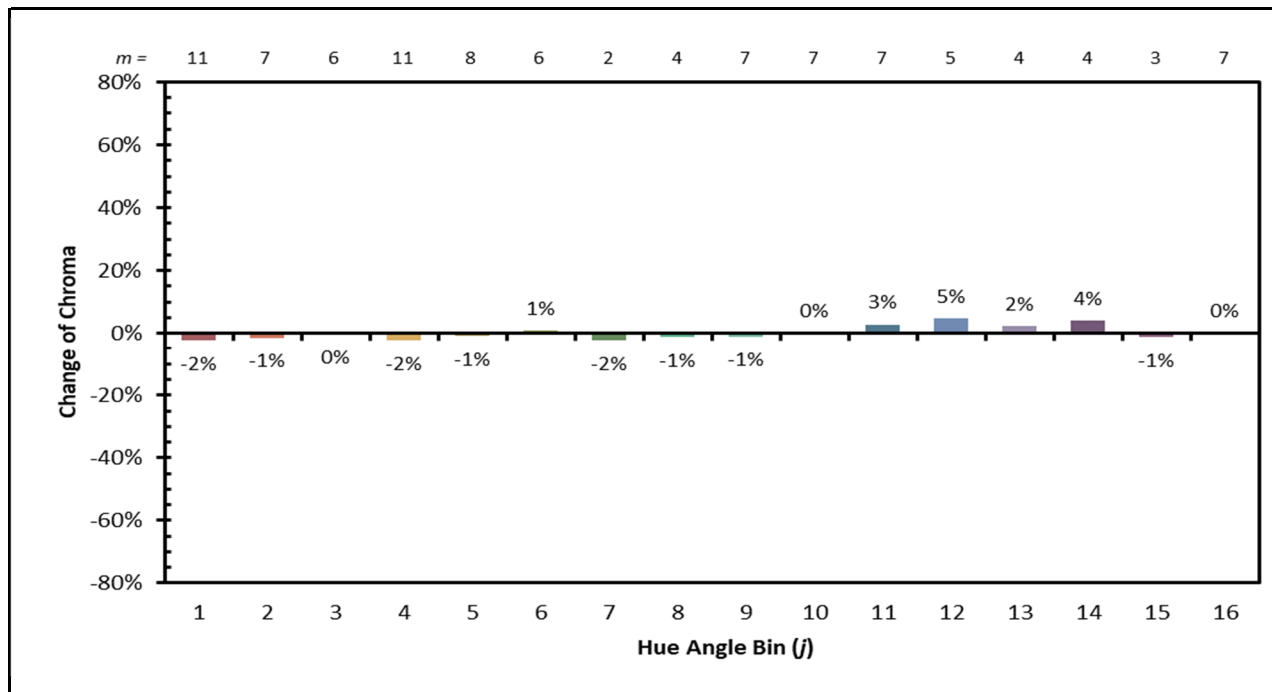
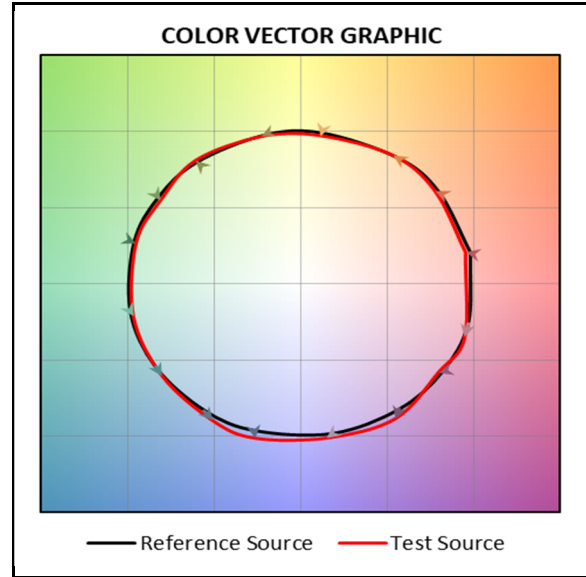
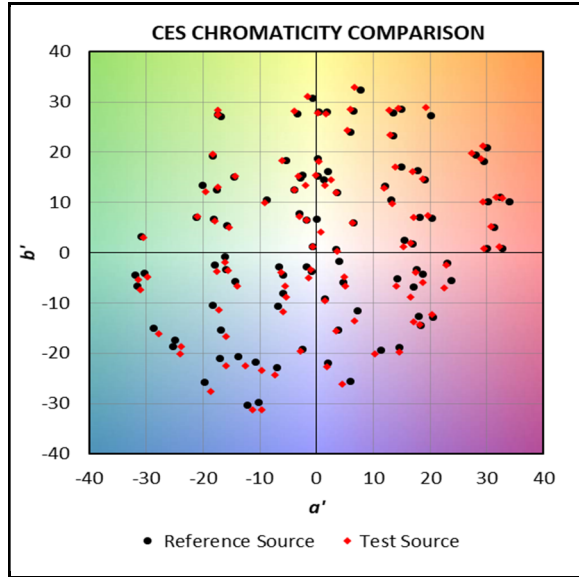
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.000011	480	0.000680	580	0.002009	680	0.001771
385	0.000011	485	0.000687	585	0.002066	685	0.001618
390	0.000013	490	0.000755	590	0.002145	690	0.001460
395	0.000015	495	0.000845	595	0.002237	695	0.001309
400	0.000020	500	0.000950	600	0.002349	700	0.001173
405	0.000026	505	0.001049	605	0.002467	705	0.001040
410	0.000035	510	0.001140	610	0.002571	710	0.000917
415	0.000049	515	0.001209	615	0.002668	715	0.000809
420	0.000072	520	0.001176	620	0.002741	720	0.000710
425	0.000110	525	0.001342	625	0.002795	725	0.000619
430	0.000169	530	0.001445	630	0.002817	730	0.000540
435	0.000264	535	0.001518	635	0.002816	735	0.000468
440	0.000416	540	0.001599	640	0.002773	740	0.000404
445	0.000661	545	0.001659	645	0.002695	745	0.000349
450	0.001025	550	0.001728	650	0.002588	750	0.000301
455	0.001375	555	0.001780	655	0.002485	755	0.000260
460	0.001283	560	0.001829	660	0.002364	760	0.000225
465	0.000979	565	0.001868	665	0.002229	765	0.000193
470	0.000849	570	0.001910	670	0.002083	770	0.000165
475	0.000754	575	0.001952	675	0.001931	775	0.000142
						780	0.000123





IES TM-30 Summary





Test Report Number: LLIA001067-006B

Catalog Number: 3-567-115 Ellipse Sconce with Glass Enclosure

Surface wall mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white glass enclosure.

12 white LEDs, one Harvard Engineering LEDENG-163-930 LED board

One ERP ESS010W-0180-42 dimmable LED driver.

Test Equipment Configuration: LightLab International Allentown 2m Integrating Sphere
Measurements acquired using a Labsphere CDS 2600 spectroradiometer
Testing was performed using 4π geometry

Test Temperature: 24.8 °C

Test Procedure: Tested in accordance with the applicable sections of:
LM-79-08, LM-78-07, LM-58-13, ANSI_ANSLG C78.377-2015,
ANSI C82-77-10:2014, TM-30-15

Significance: The laboratory has not participated in the selection of samples to be tested.
All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Notes: The measurements and other derived quantities contained in this report are based on the absolute data as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with * are not covered.