



Report of Test

LLIA001067-007A

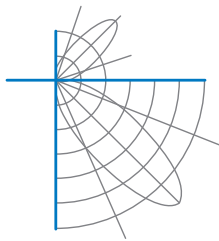
Catalog Number: 3-567-224 Ellipse Sconce with Acrylic Enclosure
Surface wall mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white plastic enclosure.
12 white LEDs, one Harvard Engineering LEDENG-163-930 LED board
One ERP ESS010W-0180-42 dimmable LED driver.
120.0Vac, 60.00Hz, 0.0598A, 7.08W, 0.986PF, 11.7%THD(i)



Performance Summary

Total Light Output	157 lm
Luminaire Power	7.08 W
Luminous Efficacy	22.2 lm/W

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



Test Report No. LLIA001067-007A

Catalog Number: 3-567-224 Ellipse Sconce with Acrylic Enclosure

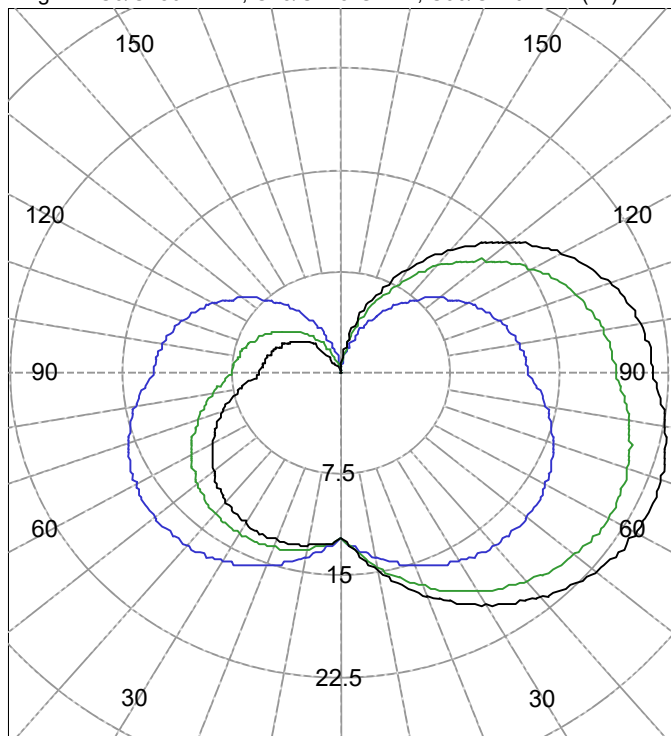
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Legend: C0/C180-Black, C45/C225-Green, C90/C270-Blue (cd)



C180-C270 (Symmetric about C0/C180) C0-C90

AVERAGE LUMINANCE (cd/m²)

Gamma	C0	C45	C90
45.0	2864	2636	2139
55.0	2872	2614	2045
65.0	2891	2602	1960
75.0	2915	2597	1882
85.0	2955	2601	1809

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	12.3	12.3	12.3	12.3	12.3	
5.0	13.4	13.4	13.3	13.2	13.1	1
10.0	14.9	14.8	14.5	14.2	13.8	
15.0	16.2	16.1	15.7	15.1	14.5	4
20.0	17.6	17.4	16.8	16.0	15.1	
25.0	18.7	18.5	17.7	16.8	15.7	7
30.0	19.8	19.5	18.6	17.4	16.0	
35.0	20.8	20.4	19.4	17.9	16.3	10
40.0	21.5	21.1	20.0	18.4	16.6	
45.0	22.3	21.8	20.5	18.7	16.6	13
50.0	22.8	22.3	20.9	18.9	16.6	
55.0	23.1	22.6	21.1	18.9	16.5	15
60.0	23.4	22.8	21.2	18.8	16.2	
65.0	23.4	22.8	21.1	18.6	15.9	16
70.0	23.4	22.7	20.9	18.3	15.4	
75.0	23.0	22.4	20.5	17.8	14.9	16
80.0	22.6	21.9	20.0	17.2	14.2	
85.0	22.0	21.3	19.4	16.6	13.5	15
90.0	21.4	20.7	18.7	15.9	12.8	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	13	N / A	8.1
0-40	23	N / A	14.7
0-60	51	N / A	32.5
0-90	98	N / A	62.3
40-90	75	N / A	47.6
60-90	47	N / A	29.9
90-180	59	N / A	37.7
0-180	157	N / A	100.0

Total Light Output = 157 lm

Spacing Criterion: 0-180 2.4
Spacing Criterion: 90-270 1.9

Signed:

Authorized Signatory

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



Test Report No. LLIA001067-007A

Catalog Number: 3-567-224 Ellipse Sconce with Acrylic Enclosure

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

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

One ERP ESS010W-0180-42 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0598A, 7.08W, 0.986PF, 11.7%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	12.3	12.3	12.3	12.3	12.3
2.5	12.7	12.7	12.7	12.7	12.7
5.0	13.4	13.4	13.3	13.2	13.1
7.5	14.2	14.1	13.9	13.7	13.5
10.0	14.9	14.8	14.5	14.2	13.8
12.5	15.6	15.5	15.1	14.7	14.2
15.0	16.2	16.1	15.7	15.1	14.5
17.5	16.9	16.8	16.3	15.6	14.8
20.0	17.6	17.4	16.8	16.0	15.1
22.5	18.1	17.9	17.3	16.4	15.4
25.0	18.7	18.5	17.7	16.8	15.7
27.5	19.3	19.0	18.2	17.1	15.9
30.0	19.8	19.5	18.6	17.4	16.0
32.5	20.3	20.0	19.0	17.7	16.2
35.0	20.8	20.4	19.4	17.9	16.3
37.5	21.1	20.8	19.7	18.2	16.5
40.0	21.5	21.1	20.0	18.4	16.6
42.5	21.9	21.5	20.2	18.5	16.6
45.0	22.3	21.8	20.5	18.7	16.6
47.5	22.5	22.0	20.7	18.8	16.6
50.0	22.8	22.3	20.9	18.9	16.6
52.5	23.0	22.5	21.0	18.9	16.6
55.0	23.1	22.6	21.1	18.9	16.5
57.5	23.3	22.7	21.1	18.9	16.3
60.0	23.4	22.8	21.2	18.8	16.2
62.5	23.4	22.8	21.1	18.7	16.1
65.0	23.4	22.8	21.1	18.6	15.9
67.5	23.4	22.8	21.0	18.5	15.6
70.0	23.4	22.7	20.9	18.3	15.4
72.5	23.2	22.5	20.7	18.1	15.1
75.0	23.0	22.4	20.5	17.8	14.9
77.5	22.8	22.2	20.2	17.5	14.5
80.0	22.6	21.9	20.0	17.2	14.2
82.5	22.3	21.6	19.7	16.9	13.8
85.0	22.0	21.3	19.4	16.6	13.5
87.5	21.7	21.0	19.0	16.2	13.1
90.0	21.4	20.7	18.7	15.9	12.8



Test Report No. LLIA001067-007A

Catalog Number: 3-567-224 Ellipse Sconce with Acrylic Enclosure

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

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

One ERP ESS010W-0180-42 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0598A, 7.08W, 0.986PF, 11.7%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	21.4	20.7	18.7	15.9	12.8
92.5	21.3	20.6	18.7	15.9	12.7
95.0	21.2	20.5	18.5	15.8	12.6
97.5	21.1	20.4	18.4	15.6	12.5
100.0	20.8	20.1	18.2	15.4	12.3
102.5	20.6	19.9	18.0	15.3	12.1
105.0	20.3	19.6	17.7	15.0	11.9
107.5	19.9	19.2	17.4	14.7	11.7
110.0	19.5	18.9	17.0	14.4	11.5
112.5	19.1	18.4	16.6	14.1	11.1
115.0	18.6	18.0	16.2	13.7	10.8
117.5	18.1	17.5	15.8	13.3	10.5
120.0	17.5	16.9	15.2	12.8	10.1
122.5	16.9	16.4	14.7	12.4	9.8
125.0	16.3	15.7	14.1	11.9	9.4
127.5	15.6	15.1	13.6	11.4	9.0
130.0	15.0	14.4	12.9	10.8	8.5
132.5	14.2	13.7	12.3	10.3	8.1
135.0	13.4	13.0	11.6	9.7	7.7
137.5	12.7	12.2	10.9	9.2	7.2
140.0	11.9	11.5	10.3	8.6	6.7
142.5	11.1	10.7	9.6	8.0	6.3
145.0	10.2	9.9	8.9	7.4	5.8
147.5	9.4	9.1	8.1	6.8	5.3
150.0	8.6	8.3	7.4	6.2	4.8
152.5	7.7	7.5	6.7	5.5	4.3
155.0	6.9	6.7	5.9	4.9	3.8
157.5	6.0	5.8	5.2	4.3	3.3
160.0	5.2	5.0	4.5	3.7	2.9
162.5	4.4	4.3	3.8	3.1	2.4
165.0	3.6	3.5	3.1	2.5	1.9
167.5	2.7	2.7	2.4	1.9	1.5
170.0	2.0	1.9	1.7	1.3	1.0
172.5	1.2	1.2	1.0	0.8	0.6
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, 0.0598A, 7.08W, 0.986PF, 11.7%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	12.3	12.3	12.3	12.3	12.3
2.5	12.7	12.6	12.6	12.6	12.6
5.0	13.1	12.9	12.8	12.7	12.7
7.5	13.5	13.2	13.0	12.9	12.9
10.0	13.8	13.5	13.2	13.0	12.9
12.5	14.2	13.7	13.4	13.1	13.0
15.0	14.5	13.9	13.5	13.2	13.0
17.5	14.8	14.1	13.6	13.2	13.1
20.0	15.1	14.3	13.6	13.2	13.1
22.5	15.4	14.5	13.7	13.2	13.1
25.0	15.7	14.6	13.7	13.2	13.0
27.5	15.9	14.7	13.8	13.2	13.0
30.0	16.0	14.8	13.7	13.1	12.9
32.5	16.2	14.8	13.7	13.0	12.8
35.0	16.3	14.8	13.6	12.9	12.6
37.5	16.5	14.8	13.5	12.7	12.4
40.0	16.6	14.8	13.4	12.6	12.3
42.5	16.6	14.8	13.3	12.4	12.1
45.0	16.6	14.7	13.1	12.2	11.9
47.5	16.6	14.6	13.0	11.9	11.6
50.0	16.6	14.5	12.8	11.7	11.3
52.5	16.6	14.3	12.6	11.4	11.0
55.0	16.5	14.2	12.3	11.1	10.7
57.5	16.3	14.0	12.0	10.8	10.4
60.0	16.2	13.7	11.7	10.5	10.1
62.5	16.1	13.5	11.4	10.1	9.7
65.0	15.9	13.2	11.1	9.8	9.4
67.5	15.6	13.0	10.8	9.4	9.0
70.0	15.4	12.7	10.4	9.1	8.6
72.5	15.1	12.3	10.1	8.7	8.2
75.0	14.9	12.0	9.7	8.3	7.8
77.5	14.5	11.6	9.3	7.9	7.4
80.0	14.2	11.2	8.9	7.5	7.0
82.5	13.8	10.8	8.5	7.1	6.6
85.0	13.5	10.4	8.1	6.7	6.2
87.5	13.1	10.0	7.7	6.3	5.8
90.0	12.8	9.8	7.4	6.0	5.5



Test Report No. LLIA001067-007A

Catalog Number: 3-567-224 Ellipse Sconce with Acrylic Enclosure

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

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

One ERP ESS010W-0180-42 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0598A, 7.08W, 0.986PF, 11.7%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	12.8	9.8	7.4	6.0	5.5
92.5	12.7	9.7	7.4	5.9	5.5
95.0	12.6	9.6	7.3	5.9	5.4
97.5	12.5	9.5	7.2	5.8	5.4
100.0	12.3	9.4	7.1	5.7	5.3
102.5	12.1	9.2	6.9	5.6	5.2
105.0	11.9	9.0	6.9	5.5	5.1
107.5	11.7	8.8	6.7	5.4	5.0
110.0	11.5	8.6	6.6	5.2	4.8
112.5	11.1	8.4	6.3	5.1	4.7
115.0	10.8	8.2	6.2	4.9	4.6
117.5	10.5	7.9	6.0	4.8	4.4
120.0	10.1	7.6	5.8	4.6	4.2
122.5	9.8	7.4	5.6	4.4	4.1
125.0	9.4	7.1	5.3	4.3	3.9
127.5	9.0	6.8	5.1	4.1	3.7
130.0	8.5	6.4	4.9	3.9	3.6
132.5	8.1	6.1	4.6	3.7	3.4
135.0	7.7	5.8	4.3	3.5	3.2
137.5	7.2	5.4	4.1	3.2	3.0
140.0	6.7	5.1	3.8	2.9	2.7
142.5	6.3	4.7	3.5	2.3	1.9
145.0	5.8	4.3	3.2	2.0	1.2
147.5	5.3	4.0	3.0	1.9	0.9
150.0	4.8	3.6	2.7	1.6	0.4
152.5	4.3	3.1	2.3	1.2	0.0
155.0	3.8	2.7	1.9	0.8	0.0
157.5	3.3	2.4	1.4	0.6	0.0
160.0	2.9	2.0	1.0	0.3	0.0
162.5	2.4	1.7	0.8	0.1	0.0
165.0	1.9	1.4	0.6	0.0	0.0
167.5	1.5	1.0	0.5	0.0	0.0
170.0	1.0	0.7	0.4	0.0	0.0
172.5	0.6	0.4	0.2	0.0	0.0
175.0	0.2	0.2	0.1	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: LLIA001067-007A

Catalog Number: 3-567-224 Ellipse Sconce with Acrylic Enclosure

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

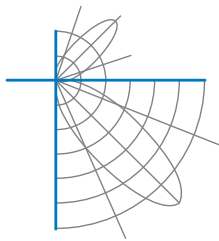
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	96	89	84	78	89	83	78	73	72	68	64	62	59	56	52	50	47	43
2	85	75	67	60	79	70	63	57	60	55	49	51	47	43	43	40	36	32
3	77	65	55	48	71	60	52	45	52	45	39	44	39	34	37	32	29	25
4	69	56	47	39	64	52	44	37	45	38	32	38	33	28	32	27	24	20
5	63	50	40	33	58	46	37	31	40	33	27	34	28	23	28	24	20	17
6	58	44	35	28	54	41	32	26	35	28	23	30	24	20	25	21	17	14
7	54	39	30	24	49	37	28	23	32	25	20	27	21	17	23	18	15	12
8	50	36	27	21	46	33	25	20	29	22	17	25	19	15	21	16	13	10
9	46	32	24	18	43	30	23	17	26	20	15	23	17	13	19	15	11	9
10	43	30	22	16	40	28	20	15	24	18	14	21	16	12	18	13	10	8

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	0.3	11.71	11.63
8.0	0.2	15.62	15.50
10.0	0.1	19.52	19.38
12.0	0.1	23.43	23.25
14.0	0.1	27.33	27.13
16.0	0.0	31.24	31.00



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Test Distance 9.5 m
Test Temperature 24.8 °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

LLIA001067-007B

Integrating Sphere Report

Catalog Number: 3-567-224 Ellipse Sconce with Acrylic Enclosure

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

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One ERP ESS010W-0180-42 dimmable LED driver.



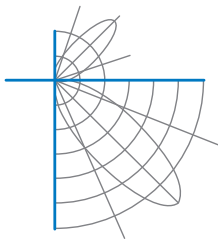
Performance Summary

Voltage	120.0 Vac
Current	0.0598 A
Power	7.08 W
Frequency	59.99 Hz
Power Factor	0.987
Current THD	11.7 %

Total Luminous Flux	156.6 lm
Efficacy	22.1 lm/W
Chromaticity (x,y)	(0.4444, 0.4007)
(u',v')	(0.2569, 0.5212)
Duv	-0.0023
CCT	2851 K
CRI (Ra)	97
R9	85
TM-30: Rf	93
TM-30: Rg	100

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

Test date: 01/18/2019
Report date: 01/24/2019



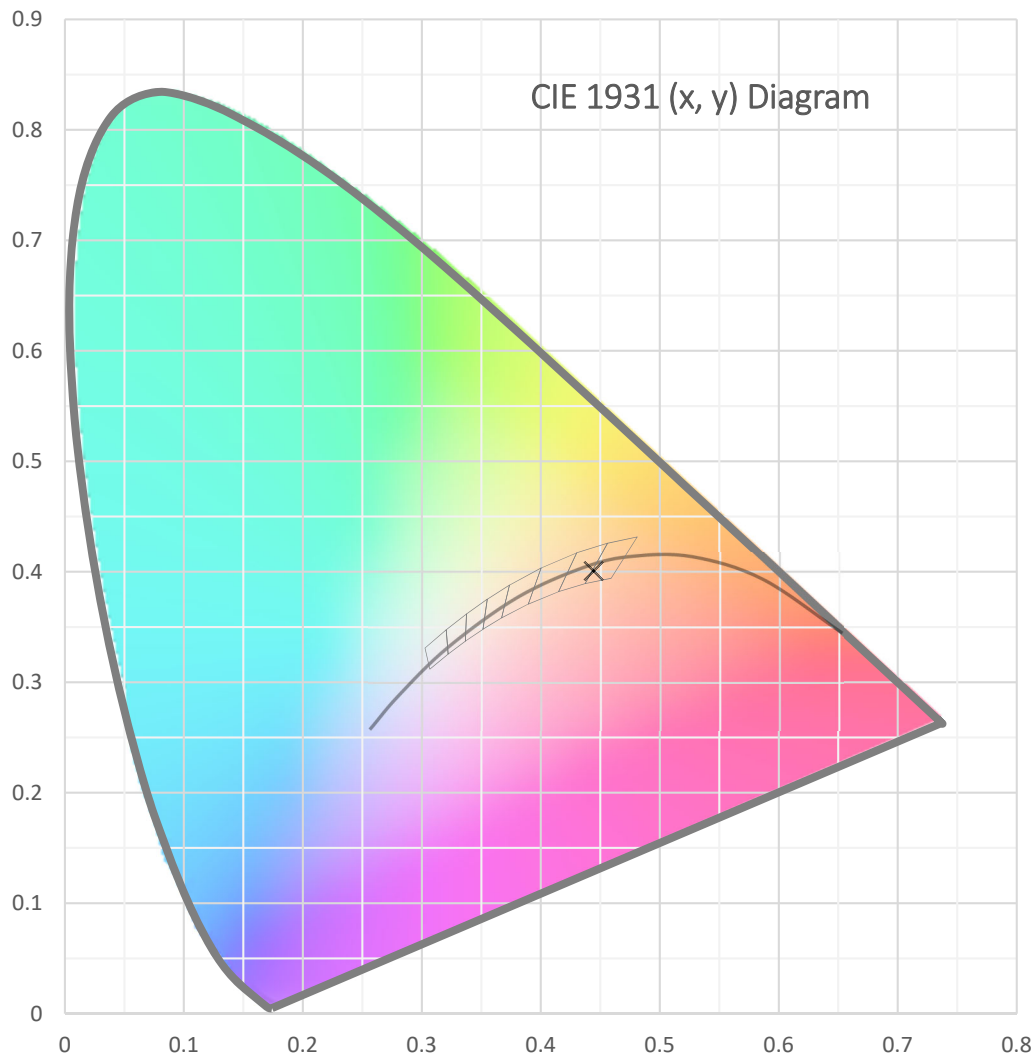
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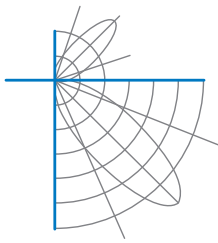
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Surface wall mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white plastic enclosure.

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

One ERP ESS010W-0180-42 dimmable LED driver.





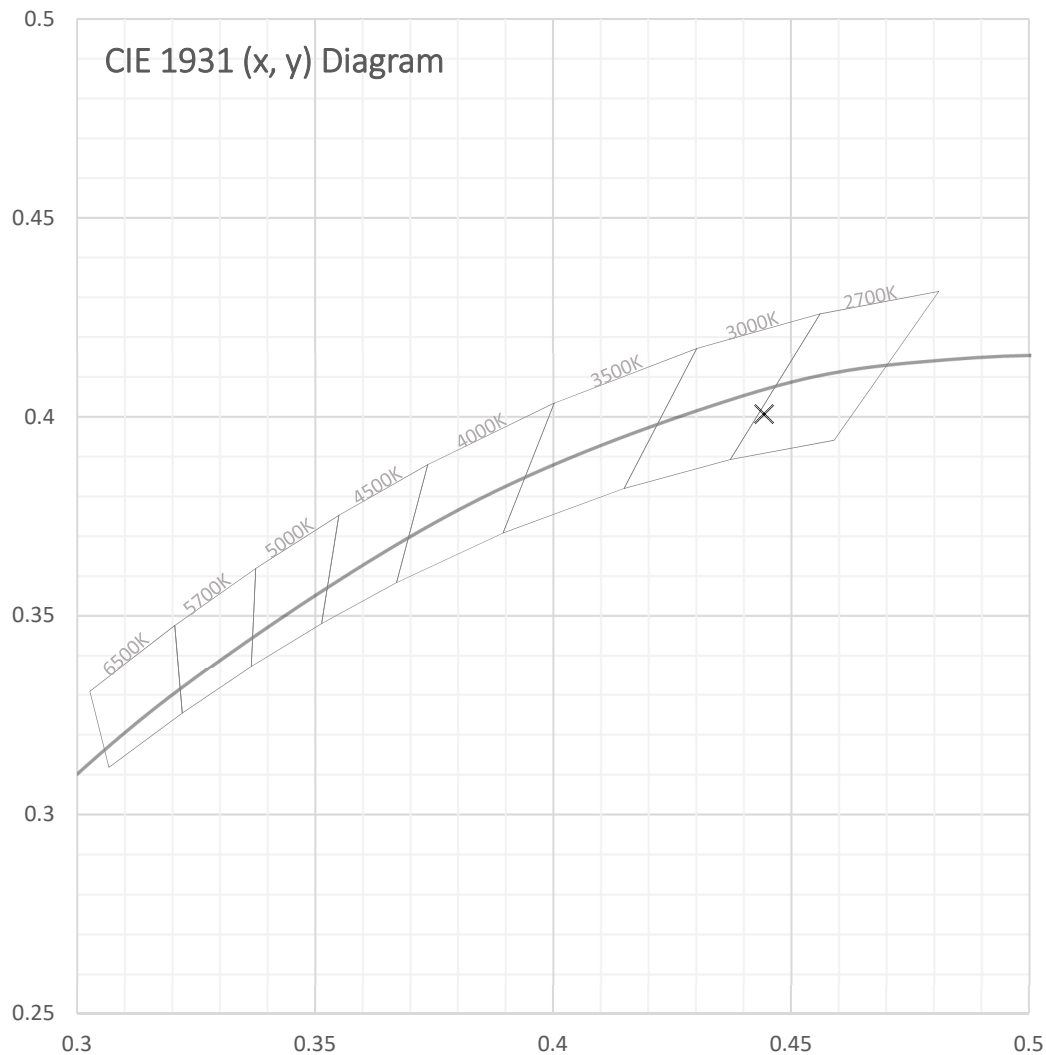
Test Report Number: LLIA001067-007B

Catalog Number: 3-567-224 Ellipse Sconce with Acrylic Enclosure

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

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Spectral Data

Total Radiant Flux	0.595 W
Total Luminous Flux	156.6 Lm
Chromaticity CIE 1931 (x, y)	(0.4444, 0.4007)
Chromaticity CIE 1976 (u', v')	(0.2569, 0.5212)
Correlated Color Temperature (CCT)	2851 K
Color Rendering Index (Ra)	97
R1	99
R2	99
R3	98
R4	98
R5	98
R6	97
R7	96
R8	93
R9	85
R10	97
R11	98
R12	85
R13	100
R14	98
TM-30: Rf	93
TM-30: Rg	100
Distance from Planckian Locus (Duv)	-0.0023
Scotopic/Photopic Ratio *	1.398

Electrical Data

Voltage	120.0 Vac
Current	0.0598 A
Power	7.08 W
Frequency	59.99 Hz
Power Factor	0.987
Current THD	11.7 %



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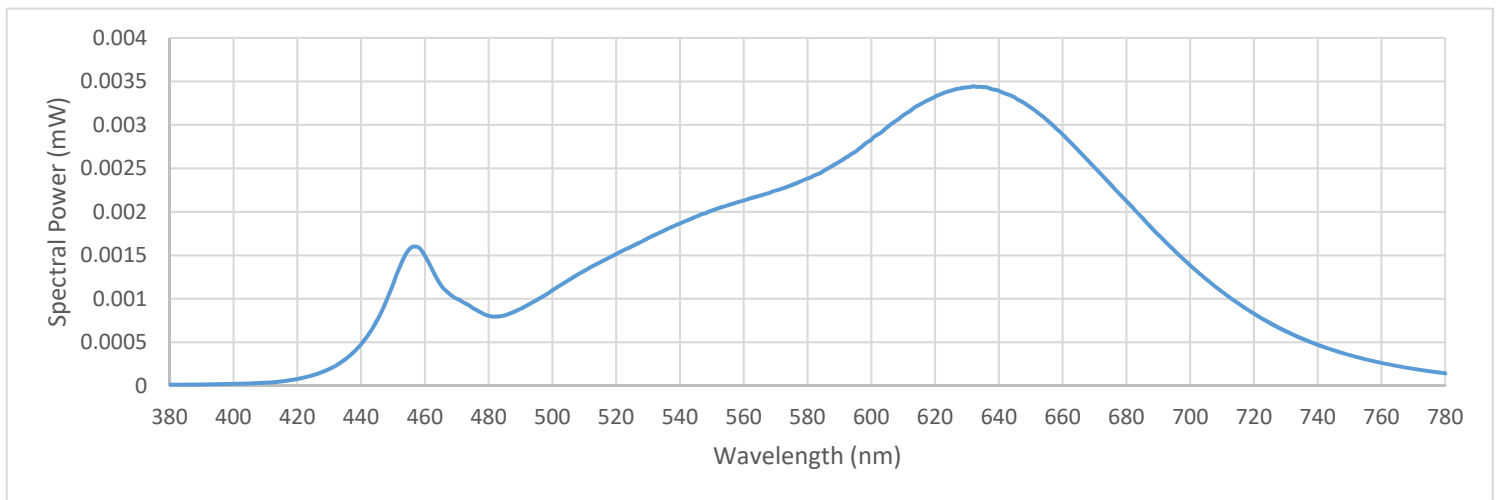
Surface wall mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white plastic enclosure.

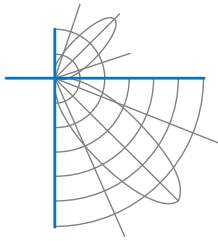
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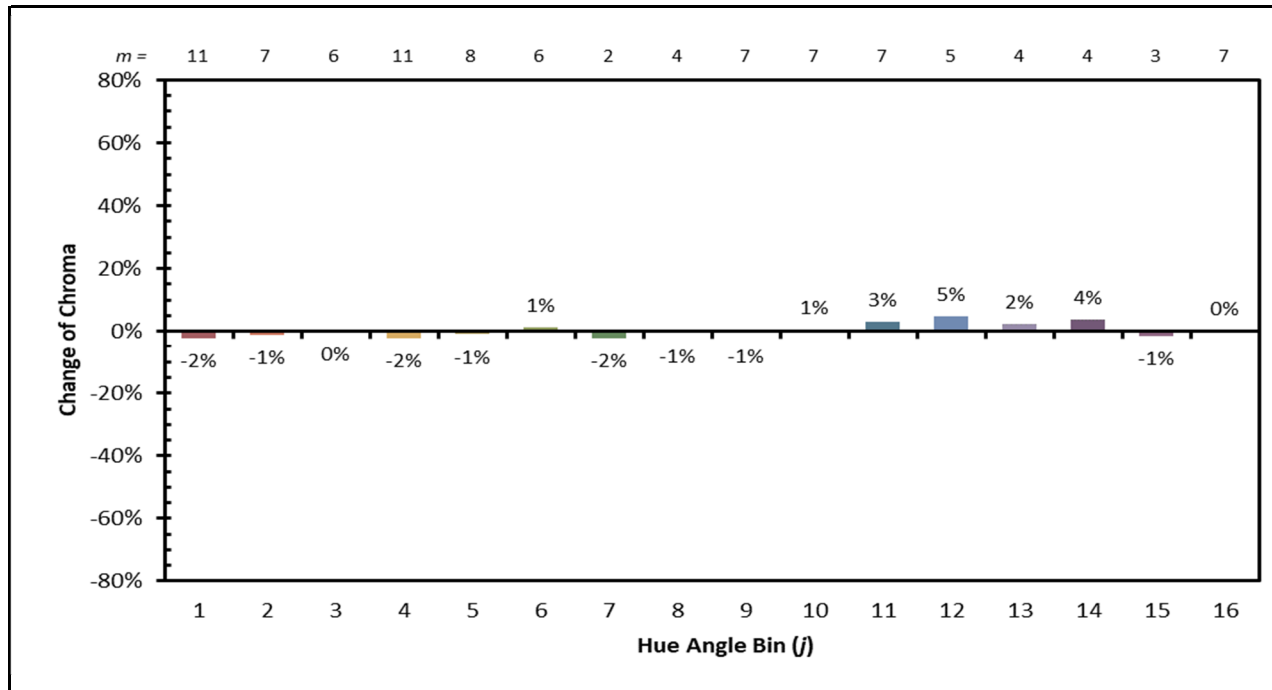
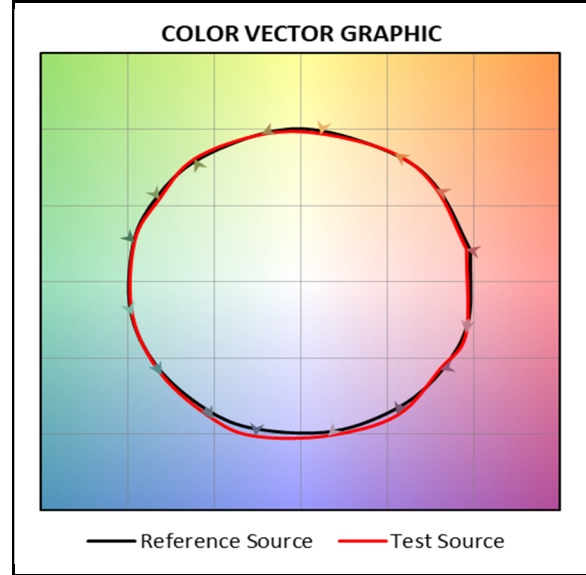
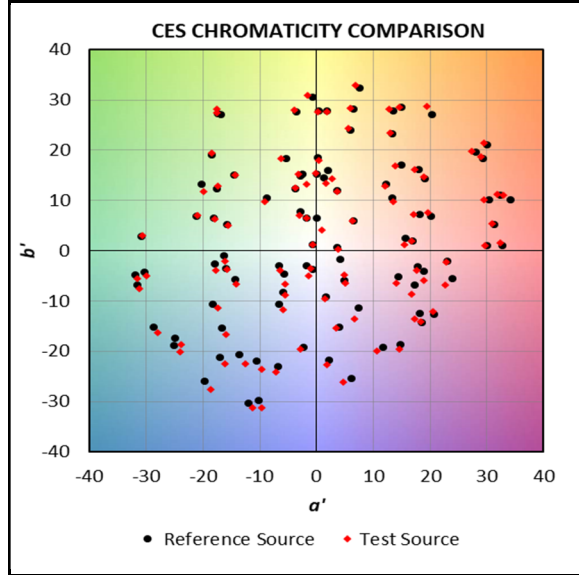
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.000013	480	0.000805	580	0.002384	680	0.002123
385	0.000013	485	0.000808	585	0.002471	685	0.001934
390	0.000015	490	0.000886	590	0.002577	690	0.001737
395	0.000018	495	0.000983	595	0.002690	695	0.001553
400	0.000022	500	0.001099	600	0.002828	700	0.001389
405	0.000027	505	0.001214	605	0.002974	705	0.001228
410	0.000035	510	0.001319	610	0.003111	710	0.001079
415	0.000050	515	0.001422	615	0.003228	715	0.000949
420	0.000079	520	0.001515	620	0.003325	720	0.000828
425	0.000123	525	0.001603	625	0.003395	725	0.000720
430	0.000194	530	0.001697	630	0.003431	730	0.000626
435	0.000303	535	0.001783	635	0.003435	735	0.000543
440	0.000475	540	0.001867	640	0.003392	740	0.000469
445	0.000752	545	0.001945	645	0.003314	745	0.000408
450	0.001164	550	0.002014	650	0.003200	750	0.000353
455	0.001565	555	0.002075	655	0.003056	755	0.000305
460	0.001500	560	0.002130	660	0.002891	760	0.000264
465	0.001158	565	0.002184	665	0.002702	765	0.000228
470	0.001000	570	0.002246	670	0.002512	770	0.000195
475	0.000895	575	0.002306	675	0.002321	775	0.000168
						780	0.000144





IES TM-30 Summary





Test Report Number: LLIA001067-007B

Catalog Number: 3-567-224 Ellipse Sconce with Acrylic Enclosure

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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 4 π geometry

Test Temperature: 25.0 °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.