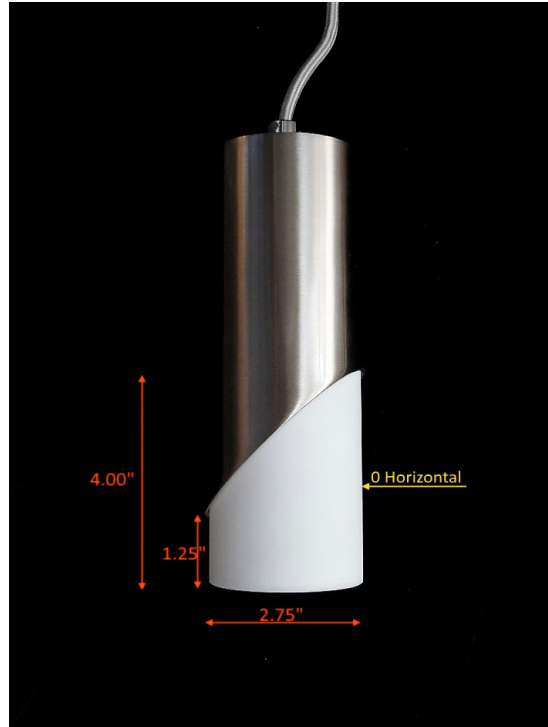


Report of Test

LLIA001067-011A

Catalog Number: 3-667-224 Ellipse Pendant with Acrylic Enclosure
Pendant 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, 6.99W, 0.974PF, 19.0%THD(i)



Performance Summary

Total Light Output	158 lm
Luminaire Power	6.99 W
Luminous Efficacy	22.6 lm/W

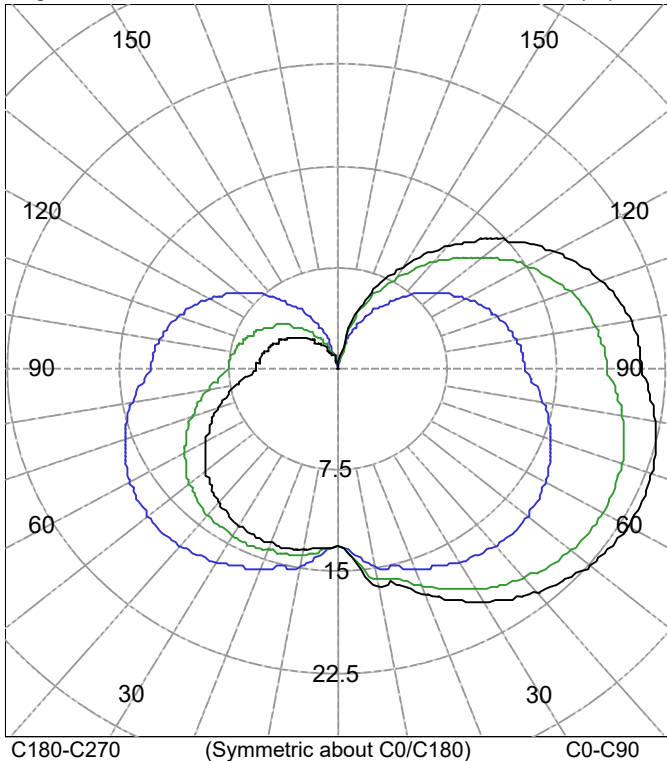
PREPARED FOR : Oxygen Lighting, 201 Railhead Road, Fort Worth, TX 76106, USA



Test Report No. LLIA001067-011A

Catalog Number: 3-667-224 Ellipse Pendant with Acrylic Enclosure
Pendant 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, 6.99W, 0.974PF, 19.0%THD(i)

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



AVERAGE LUMINANCE (cd/m²)

Gamma	C0	C45	C90
45.0	2835	2636	2181
55.0	2831	2598	2075
65.0	2838	2576	1978
75.0	2855	2563	1890
85.0	2879	2554	1812

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	12.9	12.9	12.9	12.9	12.9	
5.0	14.4	14.4	14.3	14.1	13.9	1
10.0	16.2	16.1	15.7	15.3	14.8	
15.0	16.5	16.4	16.1	15.7	15.1	4
20.0	17.7	17.5	17.1	16.4	15.6	
25.0	18.8	18.6	18.0	17.1	16.1	7
30.0	19.8	19.5	18.8	17.7	16.5	
35.0	20.7	20.3	19.5	18.2	16.8	11
40.0	21.4	21.1	20.0	18.6	16.9	
45.0	22.0	21.6	20.5	18.8	17.0	13
50.0	22.5	22.1	20.8	19.0	16.9	
55.0	22.8	22.3	20.9	19.0	16.7	15
60.0	23.0	22.5	21.0	18.9	16.4	
65.0	23.0	22.5	20.9	18.6	16.0	16
70.0	22.9	22.2	20.6	18.2	15.5	
75.0	22.5	21.9	20.2	17.7	14.9	16
80.0	22.1	21.5	19.7	17.2	14.2	
85.0	21.4	20.8	19.0	16.5	13.5	15
90.0	20.8	20.1	18.4	15.8	12.8	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	13	N / A	8.3
0-40	24	N / A	15.0
0-60	52	N / A	32.9
0-90	99	N / A	62.5
40-90	75	N / A	47.5
60-90	47	N / A	29.6
90-180	59	N / A	37.5
0-180	158	N / A	100.0

Total Light Output = 158 lm

Spacing Criterion: 0-180 2.3
Spacing Criterion: 90-270 1.9

Signed:

Authorized Signatory

Date of test 11-Jan-2019
Date of report 15-Jan-2019



Test Report No. LLIA001067-011A

Catalog Number: 3-667-224 Ellipse Pendant with Acrylic Enclosure
Pendant 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, 6.99W, 0.974PF, 19.0%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	12.9	12.9	12.9	12.9	12.9
2.5	13.4	13.4	13.4	13.4	13.3
5.0	14.4	14.4	14.3	14.1	13.9
7.5	15.6	15.5	15.2	14.8	14.4
10.0	16.2	16.1	15.7	15.3	14.8
12.5	16.2	16.1	15.9	15.5	15.0
15.0	16.5	16.4	16.1	15.7	15.1
17.5	17.1	17.0	16.6	16.0	15.4
20.0	17.7	17.5	17.1	16.4	15.6
22.5	18.3	18.1	17.5	16.8	15.9
25.0	18.8	18.6	18.0	17.1	16.1
27.5	19.3	19.1	18.4	17.4	16.3
30.0	19.8	19.5	18.8	17.7	16.5
32.5	20.3	20.0	19.1	18.0	16.6
35.0	20.7	20.3	19.5	18.2	16.8
37.5	21.1	20.7	19.8	18.4	16.8
40.0	21.4	21.1	20.0	18.6	16.9
42.5	21.8	21.4	20.3	18.7	16.9
45.0	22.0	21.6	20.5	18.8	17.0
47.5	22.3	21.9	20.7	18.9	16.9
50.0	22.5	22.1	20.8	19.0	16.9
52.5	22.7	22.2	20.9	19.0	16.8
55.0	22.8	22.3	20.9	19.0	16.7
57.5	22.9	22.4	21.0	18.9	16.6
60.0	23.0	22.5	21.0	18.9	16.4
62.5	23.0	22.5	20.9	18.8	16.2
65.0	23.0	22.5	20.9	18.6	16.0
67.5	22.9	22.4	20.8	18.4	15.8
70.0	22.9	22.2	20.6	18.2	15.5
72.5	22.7	22.1	20.5	18.0	15.2
75.0	22.5	21.9	20.2	17.7	14.9
77.5	22.3	21.7	20.0	17.5	14.6
80.0	22.1	21.5	19.7	17.2	14.2
82.5	21.8	21.1	19.4	16.8	13.9
85.0	21.4	20.8	19.0	16.5	13.5
87.5	21.1	20.5	18.7	16.1	13.1
90.0	20.8	20.1	18.4	15.8	12.8



Test Report No. LLIA001067-011A

Catalog Number: 3-667-224 Ellipse Pendant with Acrylic Enclosure
Pendant 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, 6.99W, 0.974PF, 19.0%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	20.8	20.1	18.4	15.8	12.8
92.5	20.8	20.1	18.3	15.7	12.7
95.0	20.6	20.0	18.2	15.6	12.6
97.5	20.5	19.8	18.1	15.5	12.5
100.0	20.3	19.7	17.9	15.3	12.4
102.5	20.1	19.5	17.7	15.1	12.2
105.0	19.8	19.2	17.4	14.9	12.0
107.5	19.5	18.8	17.2	14.6	11.7
110.0	19.1	18.5	16.8	14.3	11.5
112.5	18.7	18.1	16.4	14.0	11.2
115.0	18.3	17.6	16.0	13.6	10.9
117.5	17.7	17.2	15.6	13.3	10.6
120.0	17.2	16.6	15.1	12.8	10.2
122.5	16.7	16.1	14.6	12.4	9.9
125.0	16.0	15.5	14.1	11.9	9.5
127.5	15.4	14.9	13.5	11.4	9.1
130.0	14.8	14.2	12.9	10.9	8.7
132.5	14.1	13.6	12.3	10.4	8.3
135.0	13.4	12.9	11.6	9.9	7.8
137.5	12.6	12.2	11.0	9.3	7.4
140.0	11.8	11.4	10.3	8.7	6.9
142.5	11.1	10.6	9.6	8.1	6.4
145.0	10.2	9.9	8.9	7.5	6.0
147.5	9.5	9.1	8.2	7.0	5.5
150.0	8.6	8.3	7.5	6.3	5.0
152.5	7.8	7.5	6.8	5.7	4.5
155.0	7.0	6.8	6.1	5.1	4.0
157.5	6.2	6.0	5.4	4.5	3.5
160.0	5.4	5.2	4.6	3.9	3.0
162.5	4.6	4.4	3.9	3.3	2.5
165.0	3.7	3.5	3.1	2.5	1.9
167.5	1.9	1.9	1.8	1.6	1.2
170.0	0.4	0.4	0.3	0.3	0.2
172.5	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	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 Report No. LLIA001067-011A

Catalog Number: 3-667-224 Ellipse Pendant with Acrylic Enclosure
Pendant 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, 6.99W, 0.974PF, 19.0%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	12.9	12.9	12.9	12.9	12.9
2.5	13.3	13.3	13.2	13.2	13.2
5.0	13.9	13.6	13.5	13.3	13.3
7.5	14.4	14.0	13.8	13.5	13.4
10.0	14.8	14.3	13.9	13.7	13.6
12.5	15.0	14.5	14.1	13.8	13.7
15.0	15.1	14.6	14.1	13.8	13.7
17.5	15.4	14.7	14.2	13.8	13.6
20.0	15.6	14.8	14.2	13.8	13.7
22.5	15.9	15.0	14.3	13.8	13.6
25.0	16.1	15.1	14.3	13.8	13.6
27.5	16.3	15.2	14.3	13.7	13.5
30.0	16.5	15.2	14.3	13.6	13.4
32.5	16.6	15.3	14.2	13.5	13.3
35.0	16.8	15.3	14.2	13.4	13.1
37.5	16.8	15.3	14.0	13.2	12.9
40.0	16.9	15.3	13.9	13.1	12.7
42.5	16.9	15.2	13.8	12.8	12.5
45.0	17.0	15.1	13.6	12.6	12.2
47.5	16.9	15.0	13.4	12.4	12.0
50.0	16.9	14.9	13.2	12.1	11.7
52.5	16.8	14.7	13.0	11.8	11.4
55.0	16.7	14.5	12.7	11.5	11.0
57.5	16.6	14.3	12.4	11.1	10.7
60.0	16.4	14.0	12.0	10.8	10.3
62.5	16.2	13.8	11.7	10.4	10.0
65.0	16.0	13.5	11.4	10.0	9.6
67.5	15.8	13.2	11.0	9.6	9.2
70.0	15.5	12.9	10.7	9.2	8.8
72.5	15.2	12.5	10.3	8.8	8.3
75.0	14.9	12.1	9.9	8.4	7.9
77.5	14.6	11.8	9.5	8.0	7.5
80.0	14.2	11.4	9.0	7.6	7.1
82.5	13.9	11.0	8.6	7.1	6.6
85.0	13.5	10.5	8.2	6.7	6.2
87.5	13.1	10.1	7.8	6.3	5.8
90.0	12.8	9.8	7.5	6.1	5.6



Test Report No. LLIA001067-011A

Catalog Number: 3-667-224 Ellipse Pendant with Acrylic Enclosure
Pendant 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, 6.99W, 0.974PF, 19.0%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	12.8	9.8	7.5	6.1	5.6
92.5	12.7	9.8	7.5	6.0	5.5
95.0	12.6	9.7	7.4	5.9	5.4
97.5	12.5	9.6	7.3	5.8	5.4
100.0	12.4	9.5	7.2	5.8	5.3
102.5	12.2	9.3	7.1	5.7	5.2
105.0	12.0	9.2	6.9	5.6	5.1
107.5	11.7	9.0	6.8	5.4	4.9
110.0	11.5	8.8	6.6	5.3	4.8
112.5	11.2	8.6	6.5	5.1	4.7
115.0	10.9	8.3	6.3	5.0	4.6
117.5	10.6	8.1	6.1	4.8	4.4
120.0	10.2	7.8	5.9	4.7	4.3
122.5	9.9	7.5	5.6	4.5	4.1
125.0	9.5	7.2	5.4	4.3	3.9
127.5	9.1	6.9	5.2	4.1	3.8
130.0	8.7	6.6	5.0	3.9	3.6
132.5	8.3	6.3	4.7	3.7	3.4
135.0	7.8	5.9	4.4	3.5	3.2
137.5	7.4	5.6	4.2	3.3	3.0
140.0	6.9	5.2	3.9	3.1	2.8
142.5	6.4	4.8	3.6	2.8	2.6
145.0	6.0	4.5	3.3	2.6	2.3
147.5	5.5	4.1	3.0	2.4	2.2
150.0	5.0	3.7	2.7	2.1	1.9
152.5	4.5	3.3	2.5	1.9	1.7
155.0	4.0	3.0	2.2	1.7	1.5
157.5	3.5	2.6	1.9	1.4	1.3
160.0	3.0	2.2	1.6	1.2	1.0
162.5	2.5	1.8	1.3	1.0	0.9
165.0	1.9	1.4	1.0	0.8	0.7
167.5	1.2	0.9	0.6	0.5	0.4
170.0	0.2	0.1	0.1	0.1	0.1
172.5	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	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: LLIA001067-011A

Catalog Number: 3-667-224 Ellipse Pendant with Acrylic Enclosure

Pendant 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, 6.99W, 0.974PF, 19.0%THD(i)

Coefficients Of Utilization - Zonal Cavity Method

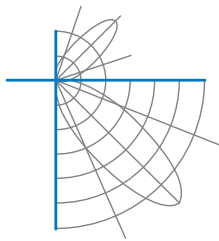
Effective Floor Cavity Reflectance 0.20

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	62
1	96	89	84	79	89	83	78	74	72	68	64	62	59	56	52	50	48	43
2	85	76	67	60	79	70	63	57	61	55	50	52	47	43	43	40	37	32
3	77	65	56	48	71	60	52	45	52	45	40	44	39	34	37	33	29	25
4	70	56	47	39	64	53	44	37	45	38	33	38	33	28	32	28	24	20
5	64	50	40	33	59	46	38	31	40	33	27	34	28	24	28	24	20	17
6	58	44	35	28	54	41	33	26	36	29	23	30	25	20	25	21	17	14
7	54	40	31	24	50	37	29	23	32	25	20	27	22	17	23	18	15	12
8	50	36	27	21	46	33	25	20	29	22	18	25	19	15	21	16	13	11
9	46	33	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	0.4	11.40	11.39
8.0	0.2	15.20	15.19
10.0	0.1	19.00	18.98
12.0	0.1	22.80	22.78
14.0	0.1	26.60	26.58
16.0	0.1	30.40	30.37



Test Report No. LLIA001067-011A

Catalog Number: 3-667-224 Ellipse Pendant with Acrylic Enclosure
Pendant 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, 6.99W, 0.974PF, 19.0%THD(i)





Test Report No. LLIA001067-011A

Catalog Number: 3-667-224 Ellipse Pendant with Acrylic Enclosure
Pendant 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, 6.99W, 0.974PF, 19.0%THD(i)

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

LLIA001067-011B

Integrating Sphere Report

Catalog Number: 3-667-224 Ellipse Pendant with Acrylic Enclosure

Pendant 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.



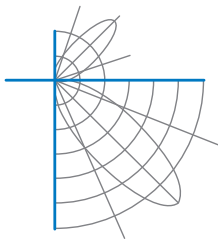
Performance Summary

Voltage	120.0 Vac
Current	0.0597 A
Power	6.98 W
Frequency	59.99 Hz
Power Factor	0.975
Current THD	19.1 %

Total Luminous Flux	156.2 lm
Efficacy	22.4 lm/W
Chromaticity (x,y)	(0.4437, 0.4015)
(u',v')	(0.2561, 0.5214)
Duv	-0.0019
CCT	2868 K
CRI (Ra)	97
R9	86
TM-30: Rf	93
TM-30: Rg	101

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

Test date: 01/09/2019
Report date: 01/14/2019



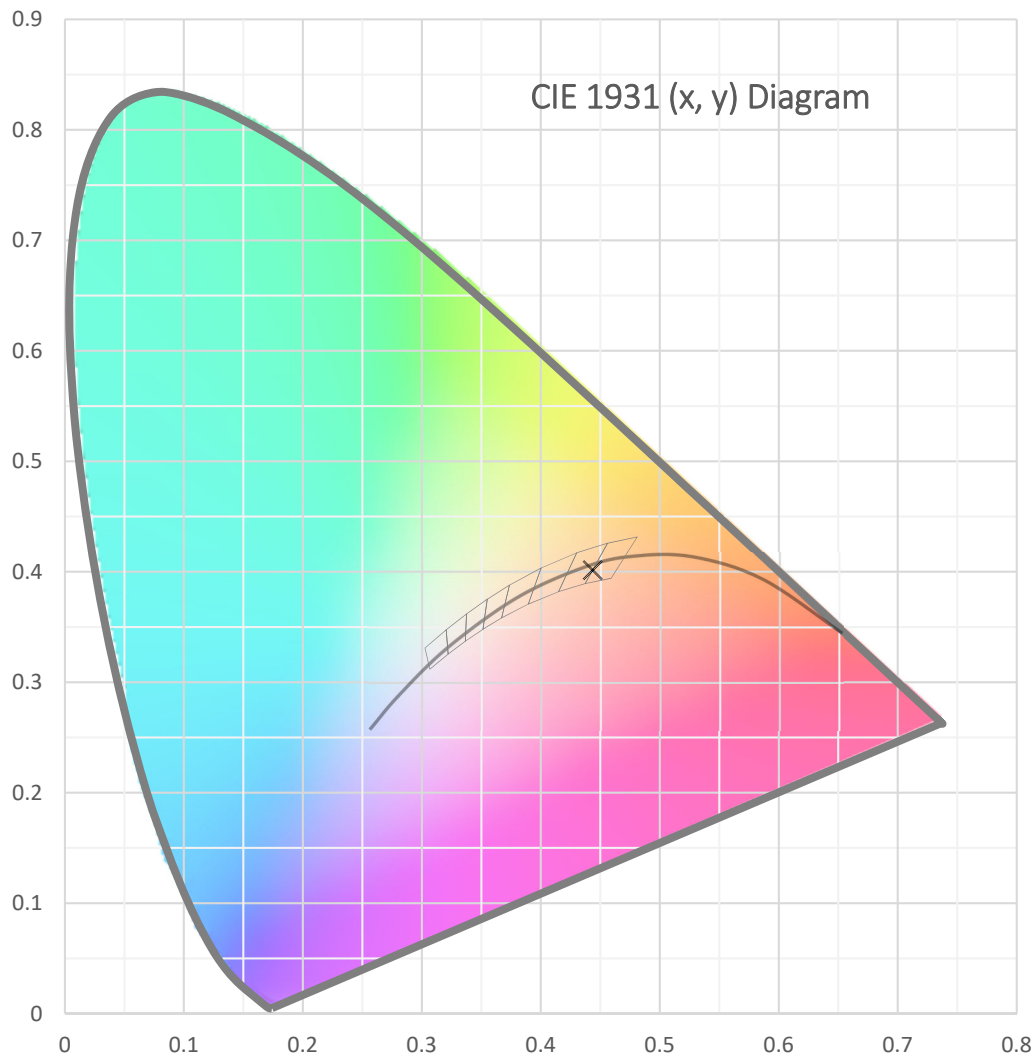
Test Report Number: LLIA001067-011B

Catalog Number: 3-667-224 Ellipse Pendant with Acrylic Enclosure

Pendant 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.





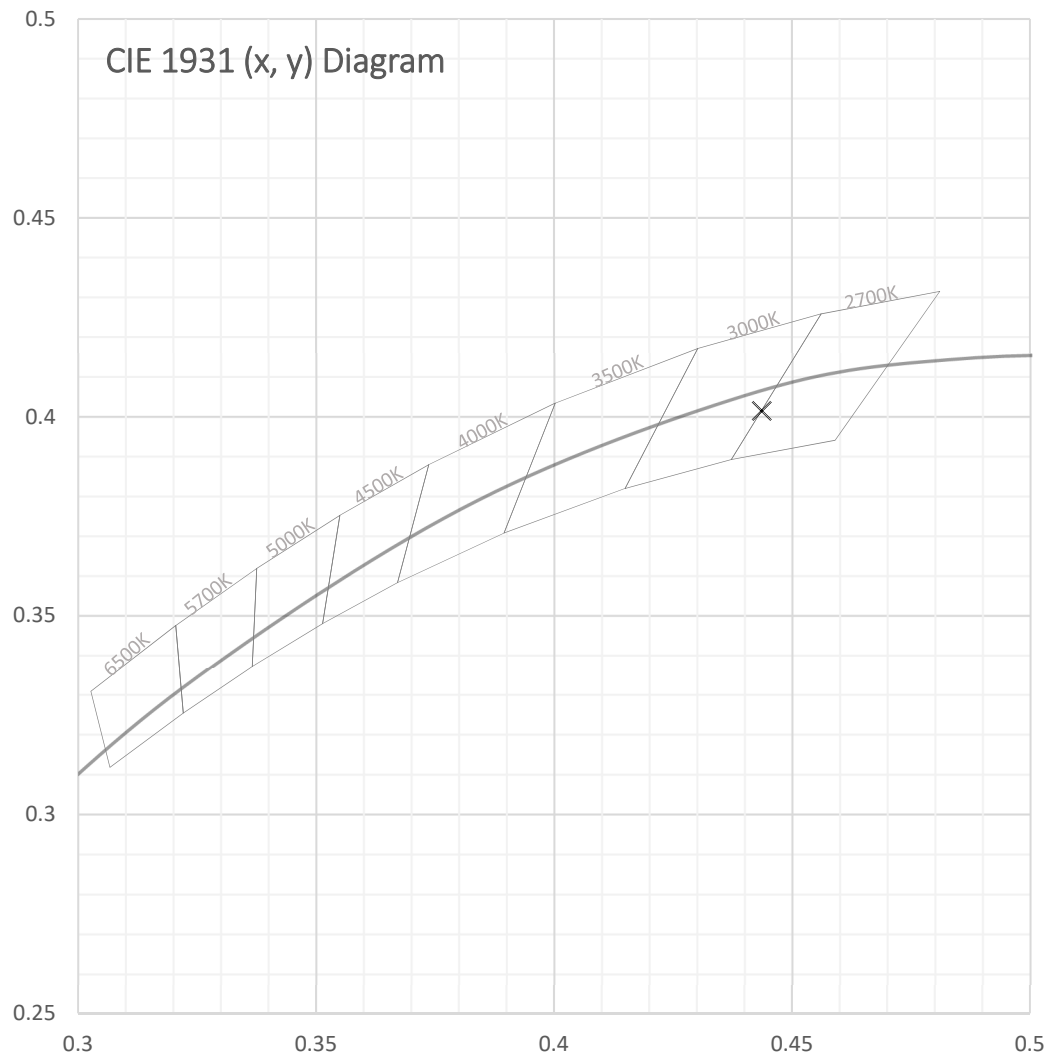
Test Report Number: LLIA001067-011B

Catalog Number: 3-667-224 Ellipse Pendant with Acrylic Enclosure

Pendant 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.





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Spectral Data	Total Radiant Flux	0.592 W
	Total Luminous Flux	156.2 Lm
	Chromaticity CIE 1931 (x, y)	(0.4437, 0.4015)
	Chromaticity CIE 1976 (u', v')	(0.2561, 0.5214)
	Correlated Color Temperature (CCT)	2868 K
	Color Rendering Index (Ra)	97
	R1	99
	R2	99
	R3	97
	R4	98
	R5	98
	R6	97
	R7	96
	R8	93
	R9	86
	R10	97
	R11	98
	R12	85
	R13	99
	R14	97
	TM-30: Rf	93
	TM-30: Rg	101
	Distance from Planckian Locus (Duv)	-0.0019
	Scotopic/Photopic Ratio *	1.402

Electrical Data

Voltage	120.0 Vac
Current	0.0597 A
Power	6.98 W
Frequency	59.99 Hz
Power Factor	0.975
Current THD	19.1 %



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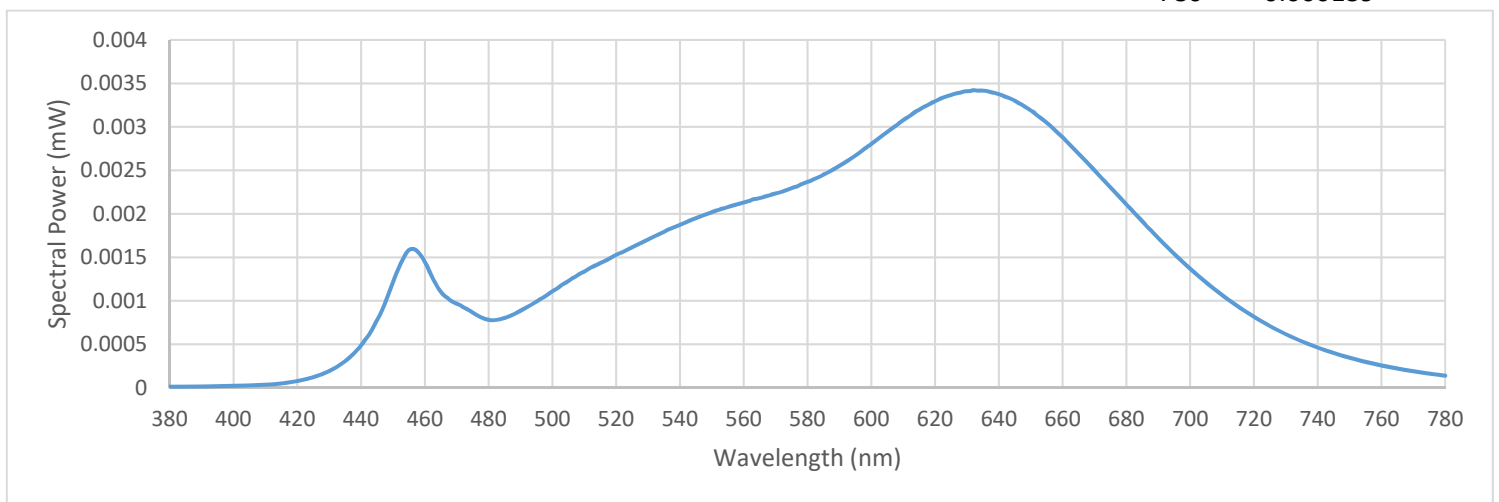
Pendant mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white plastic enclosure.

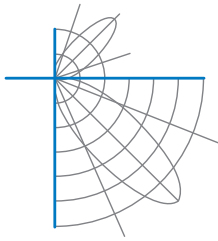
12 white LEDs, one Harvard Engineering LEDENG-163-930 LED board

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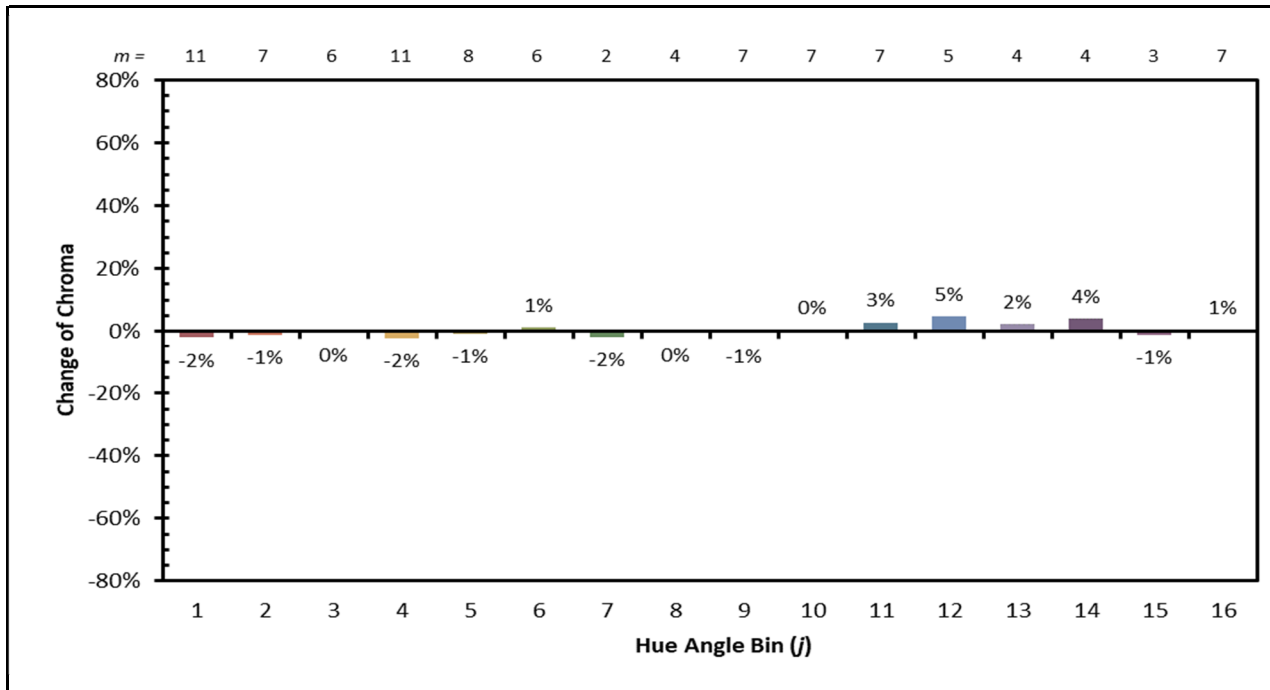
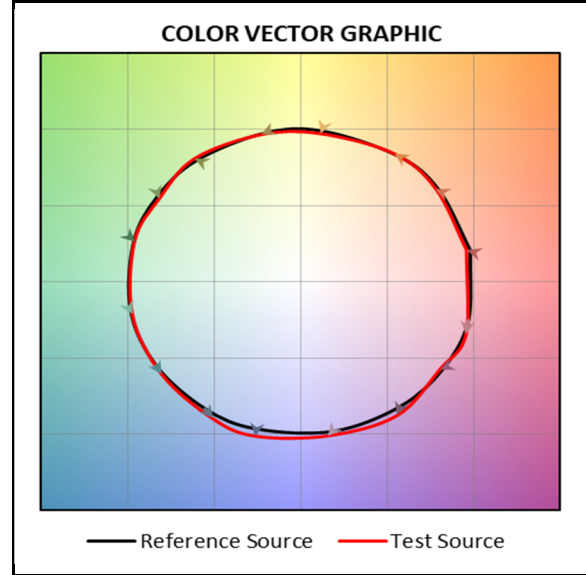
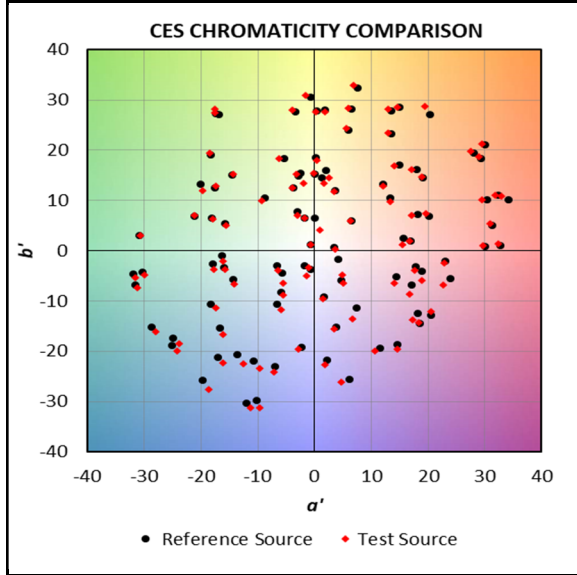
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.000013	480	0.000782	580	0.002367	680	0.002107
385	0.000013	485	0.000802	585	0.002451	685	0.001918
390	0.000015	490	0.000887	590	0.002551	690	0.001722
395	0.000018	495	0.000988	595	0.002669	695	0.001538
400	0.000022	500	0.001111	600	0.002802	700	0.001372
405	0.000028	505	0.001227	605	0.002942	705	0.001211
410	0.000035	510	0.001336	610	0.003078	710	0.001067
415	0.000049	515	0.001433	615	0.003197	715	0.000937
420	0.000078	520	0.001530	620	0.003293	720	0.000817
425	0.000123	525	0.001614	625	0.003366	725	0.000710
430	0.000193	530	0.001707	630	0.003411	730	0.000616
435	0.000306	535	0.001793	635	0.003418	735	0.000533
440	0.000486	540	0.001875	640	0.003376	740	0.000461
445	0.000776	545	0.001951	645	0.003301	745	0.000401
450	0.001208	550	0.002019	650	0.003188	750	0.000346
455	0.001584	555	0.002078	655	0.003046	755	0.000298
460	0.001449	560	0.002130	660	0.002881	760	0.000258
465	0.001101	565	0.002180	665	0.002691	765	0.000222
470	0.000966	570	0.002234	670	0.002501	770	0.000190
475	0.000862	575	0.002296	675	0.002307	775	0.000163
						780	0.000139





IES TM-30 Summary





Test Report Number: LLIA001067-011B

Catalog Number: 3-667-224 Ellipse Pendant with Acrylic Enclosure
Pendant 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 Equipment Configuration: LightLab International Allentown 2m Integrating Sphere
Measurements acquired using a Labsphere CDS 2600 spectroradiometer
Testing was performed using 4π geometry

Test Temperature: 25.4 °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.