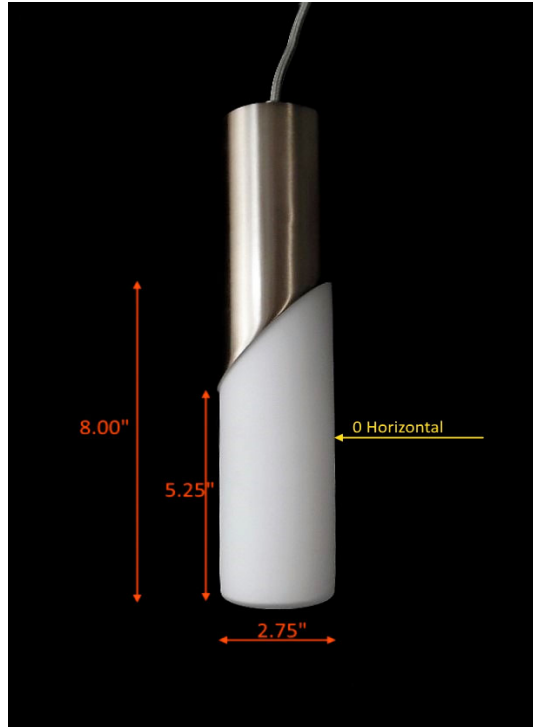


Report of Test

LLIA001067-012A

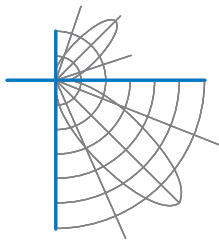
Catalog Number: 3-668-124 Ellipse Pendant with Glass Enclosure
Pendant mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white glass enclosure.
12 white LEDs, one Harvard Engineering LEDENG-163-930 LED board
One ERP ESS010W-0180-42 dimmable LED driver.
120.0Vac, 60.00Hz, 0.0600A, 7.09W, 0.985PF, 12.5%THD(i)



Performance Summary

Total Light Output	176 lm
Luminaire Power	7.09 W
Luminous Efficacy	24.8 lm/W

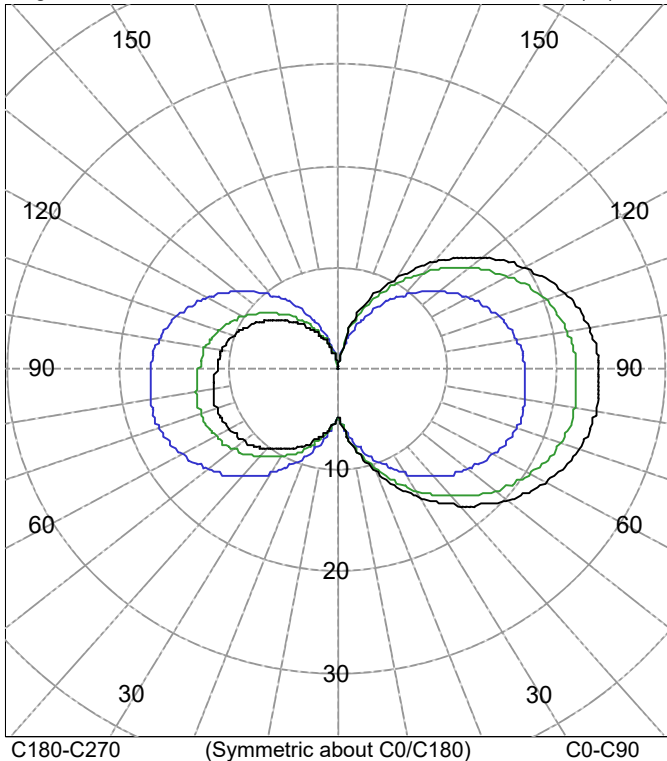
PREPARED FOR : Oxygen Lighting, 201 Railhead Road, Fort Worth, TX 76106, USA



Test Report No. LLIA001067-012A

Catalog Number: 3-668-124 Ellipse Pendant with Glass Enclosure
Pendant 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
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120.0Vac, 60.00Hz, 0.0600A, 7.09W, 0.985PF, 12.5%THD(i)

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	1480	1379	1146
55.0	1527	1417	1158
65.0	1570	1449	1169
75.0	1608	1481	1180
85.0	1646	1509	1189

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	4.9	4.9	4.9	4.9	4.9	
5.0	5.8	5.9	5.9	5.9	5.8	1
10.0	7.6	7.6	7.5	7.3	7.0	
15.0	9.4	9.3	9.1	8.7	8.3	2
20.0	11.2	11.1	10.6	10.1	9.5	
25.0	12.9	12.7	12.2	11.5	10.7	5
30.0	14.5	14.3	13.7	12.8	11.8	
35.0	16.1	15.8	15.1	14.1	12.8	8
40.0	17.5	17.3	16.4	15.2	13.8	
45.0	18.9	18.6	17.6	16.2	14.6	11
50.0	20.1	19.7	18.7	17.2	15.4	
55.0	21.2	20.7	19.6	17.9	16.0	14
60.0	22.1	21.6	20.4	18.6	16.6	
65.0	22.8	22.3	21.0	19.1	17.0	17
70.0	23.3	22.9	21.5	19.5	17.3	
75.0	23.7	23.2	21.8	19.7	17.4	18
80.0	23.9	23.4	21.9	19.8	17.4	
85.0	23.9	23.3	21.9	19.7	17.2	19
90.0	23.7	23.2	21.7	19.5	17.0	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	8	N / A	4.5
0-40	16	N / A	9.1
0-60	42	N / A	23.8
0-90	96	N / A	54.8
40-90	80	N / A	45.6
60-90	54	N / A	30.9
90-180	80	N / A	45.2
0-180	176	N / A	100.0

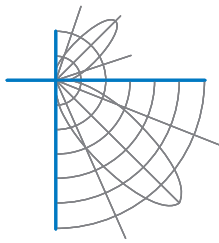
Total Light Output = 176 lm

Spacing Criterion: 0-180 3.7
Spacing Criterion: 90-270 3.2

Signed:

Authorized Signatory

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

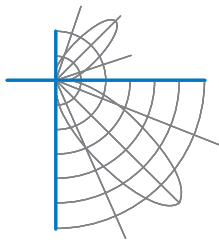


Test Report No. LLIA001067-012A

Catalog Number: 3-668-124 Ellipse Pendant with Glass Enclosure
Pendant 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, 7.09W, 0.985PF, 12.5%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	4.9	4.9	4.9	4.9	4.9
2.5	5.1	5.1	5.2	5.2	5.3
5.0	5.8	5.9	5.9	5.9	5.8
7.5	6.8	6.7	6.7	6.5	6.4
10.0	7.6	7.6	7.5	7.3	7.0
12.5	8.5	8.4	8.3	8.0	7.6
15.0	9.4	9.3	9.1	8.7	8.3
17.5	10.3	10.2	9.9	9.4	8.9
20.0	11.2	11.1	10.6	10.1	9.5
22.5	12.0	11.9	11.4	10.8	10.1
25.0	12.9	12.7	12.2	11.5	10.7
27.5	13.7	13.5	13.0	12.2	11.2
30.0	14.5	14.3	13.7	12.8	11.8
32.5	15.3	15.1	14.4	13.4	12.3
35.0	16.1	15.8	15.1	14.1	12.8
37.5	16.8	16.5	15.8	14.6	13.3
40.0	17.5	17.3	16.4	15.2	13.8
42.5	18.2	17.9	17.0	15.7	14.2
45.0	18.9	18.6	17.6	16.2	14.6
47.5	19.5	19.1	18.2	16.7	15.0
50.0	20.1	19.7	18.7	17.2	15.4
52.5	20.6	20.3	19.2	17.6	15.7
55.0	21.2	20.7	19.6	17.9	16.0
57.5	21.6	21.2	20.0	18.3	16.3
60.0	22.1	21.6	20.4	18.6	16.6
62.5	22.5	22.0	20.7	18.9	16.8
65.0	22.8	22.3	21.0	19.1	17.0
67.5	23.1	22.6	21.3	19.3	17.1
70.0	23.3	22.9	21.5	19.5	17.3
72.5	23.5	23.0	21.7	19.6	17.3
75.0	23.7	23.2	21.8	19.7	17.4
77.5	23.8	23.3	21.9	19.8	17.4
80.0	23.9	23.4	21.9	19.8	17.4
82.5	23.9	23.4	21.9	19.8	17.3
85.0	23.9	23.3	21.9	19.7	17.2
87.5	23.8	23.2	21.8	19.6	17.1
90.0	23.7	23.2	21.7	19.5	17.0

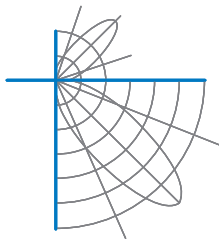


Test Report No. LLIA001067-012A

Catalog Number: 3-668-124 Ellipse Pendant with Glass Enclosure
Pendant 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, 7.09W, 0.985PF, 12.5%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	23.7	23.2	21.7	19.5	17.0
92.5	23.7	23.1	21.6	19.5	17.0
95.0	23.6	23.0	21.6	19.4	16.9
97.5	23.4	22.9	21.4	19.3	16.7
100.0	23.2	22.7	21.3	19.1	16.5
102.5	23.0	22.4	21.0	18.8	16.3
105.0	22.7	22.2	20.7	18.6	16.1
107.5	22.3	21.8	20.4	18.3	15.8
110.0	21.9	21.4	20.0	17.9	15.5
112.5	21.4	20.9	19.6	17.5	15.1
115.0	20.9	20.4	19.1	17.1	14.7
117.5	20.4	19.9	18.6	16.6	14.3
120.0	19.8	19.3	18.1	16.1	13.9
122.5	19.2	18.7	17.5	15.6	13.4
125.0	18.5	18.1	16.8	15.0	12.9
127.5	17.8	17.4	16.2	14.4	12.4
130.0	17.0	16.6	15.5	13.8	11.8
132.5	16.3	15.9	14.7	13.1	11.2
135.0	15.4	15.0	14.0	12.4	10.7
137.5	14.6	14.2	13.2	11.7	10.0
140.0	13.7	13.4	12.4	11.0	9.4
142.5	12.8	12.5	11.6	10.3	8.8
145.0	11.9	11.6	10.8	9.5	8.1
147.5	11.0	10.7	9.9	8.7	7.4
150.0	10.0	9.7	9.0	7.9	6.8
152.5	9.1	8.8	8.2	7.2	6.1
155.0	8.1	7.9	7.3	6.4	5.4
157.5	7.2	7.0	6.4	5.6	4.8
160.0	6.2	6.0	5.6	4.9	4.1
162.5	5.3	5.1	4.7	4.1	3.5
165.0	4.3	4.1	3.7	3.2	2.7
167.5	2.4	2.4	2.4	2.1	1.8
170.0	0.9	0.8	0.8	0.8	0.8
172.5	0.1	0.1	0.1	0.1	0.1
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

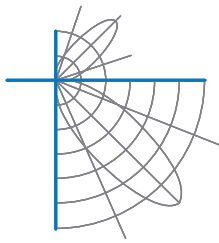


Test Report No. LLIA001067-012A

Catalog Number: 3-668-124 Ellipse Pendant with Glass Enclosure
Pendant 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, 7.09W, 0.985PF, 12.5%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	4.9	4.9	4.9	4.9	4.9
2.5	5.3	5.3	5.3	5.3	5.2
5.0	5.8	5.7	5.7	5.6	5.6
7.5	6.4	6.3	6.1	6.0	6.0
10.0	7.0	6.8	6.5	6.4	6.4
12.5	7.6	7.3	7.0	6.8	6.8
15.0	8.3	7.8	7.4	7.2	7.1
17.5	8.9	8.3	7.9	7.6	7.5
20.0	9.5	8.9	8.3	8.0	7.9
22.5	10.1	9.4	8.7	8.4	8.2
25.0	10.7	9.8	9.2	8.7	8.5
27.5	11.2	10.3	9.6	9.0	8.9
30.0	11.8	10.8	9.9	9.4	9.2
32.5	12.3	11.2	10.3	9.7	9.5
35.0	12.8	11.6	10.6	10.0	9.8
37.5	13.3	12.0	11.0	10.3	10.1
40.0	13.8	12.4	11.3	10.6	10.3
42.5	14.2	12.8	11.6	10.8	10.5
45.0	14.6	13.1	11.9	11.0	10.7
47.5	15.0	13.4	12.1	11.2	10.9
50.0	15.4	13.7	12.3	11.4	11.1
52.5	15.7	14.0	12.5	11.6	11.2
55.0	16.0	14.2	12.7	11.7	11.3
57.5	16.3	14.4	12.8	11.8	11.5
60.0	16.6	14.6	13.0	11.9	11.5
62.5	16.8	14.7	13.1	12.0	11.6
65.0	17.0	14.9	13.1	12.0	11.6
67.5	17.1	14.9	13.2	12.1	11.7
70.0	17.3	15.0	13.2	12.1	11.7
72.5	17.3	15.0	13.2	12.1	11.7
75.0	17.4	15.1	13.2	12.0	11.6
77.5	17.4	15.0	13.1	12.0	11.6
80.0	17.4	15.0	13.1	11.9	11.5
82.5	17.3	14.9	13.0	11.8	11.4
85.0	17.2	14.8	12.9	11.7	11.3
87.5	17.1	14.6	12.7	11.5	11.2
90.0	17.0	14.6	12.7	11.5	11.1

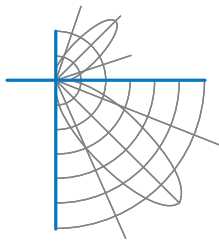


Test Report No. LLIA001067-012A

Catalog Number: 3-668-124 Ellipse Pendant with Glass Enclosure
Pendant 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, 7.09W, 0.985PF, 12.5%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	17.0	14.6	12.7	11.5	11.1
92.5	17.0	14.5	12.6	11.4	11.0
95.0	16.9	14.4	12.5	11.3	10.9
97.5	16.7	14.3	12.4	11.2	10.8
100.0	16.5	14.1	12.2	11.1	10.7
102.5	16.3	13.9	12.0	10.9	10.5
105.0	16.1	13.7	11.9	10.7	10.4
107.5	15.8	13.4	11.6	10.5	10.2
110.0	15.5	13.2	11.4	10.3	9.9
112.5	15.1	12.8	11.1	10.1	9.7
115.0	14.7	12.5	10.8	9.8	9.5
117.5	14.3	12.2	10.5	9.5	9.2
120.0	13.9	11.8	10.2	9.2	8.9
122.5	13.4	11.4	9.8	8.8	8.5
125.0	12.9	10.9	9.4	8.5	8.2
127.5	12.4	10.5	9.0	8.1	7.9
130.0	11.8	10.0	8.6	7.8	7.5
132.5	11.2	9.5	8.2	7.4	7.1
135.0	10.7	9.0	7.7	7.0	6.8
137.5	10.0	8.5	7.3	6.6	6.4
140.0	9.4	7.9	6.8	6.2	5.9
142.5	8.8	7.4	6.4	5.8	5.6
145.0	8.1	6.8	5.9	5.3	5.2
147.5	7.4	6.3	5.4	4.9	4.7
150.0	6.8	5.7	4.9	4.4	4.3
152.5	6.1	5.1	4.4	4.0	3.9
155.0	5.4	4.6	3.9	3.5	3.4
157.5	4.8	4.0	3.4	3.1	3.0
160.0	4.1	3.4	3.0	2.7	2.6
162.5	3.5	2.9	2.5	2.3	2.2
165.0	2.7	2.3	2.0	1.8	1.8
167.5	1.8	1.6	1.4	1.4	1.3
170.0	0.8	0.7	0.8	0.7	0.7
172.5	0.1	0.1	0.0	0.1	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: LLIA001067-012A

Catalog Number: 3-668-124 Ellipse Pendant with Glass Enclosure

Pendant 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, 7.09W, 0.985PF, 12.5%THD(i)

Coefficients Of Utilization - Zonal Cavity Method

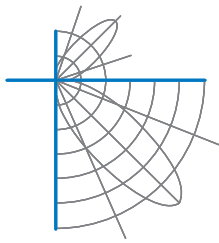
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	93	87	81	75	86	80	75	70	67	63	59	56	52	49	45	42	40	35
2	83	73	64	57	76	67	59	53	56	50	45	46	41	37	36	33	30	25
3	74	62	53	45	68	57	49	42	47	41	35	39	33	29	30	26	23	19
4	67	54	44	37	61	49	41	34	41	34	29	33	28	23	26	22	18	14
5	61	47	37	30	56	43	35	28	36	29	24	29	24	19	23	19	15	12
6	56	42	32	26	51	38	30	24	32	25	20	26	20	16	20	16	13	9
7	51	37	28	22	47	34	26	20	29	22	17	23	18	14	18	14	11	8
8	48	34	25	19	43	31	23	17	26	19	15	21	16	12	17	12	9	7
9	44	30	22	16	40	28	20	15	24	17	13	19	14	10	15	11	8	6
10	41	28	20	14	38	26	18	13	22	15	11	18	13	9	14	10	7	5

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	0.1	18.94	19.12
8.0	0.1	25.25	25.50
10.0	0.0	31.56	31.87
12.0	0.0	37.87	38.25
14.0	0.0	44.18	44.62
16.0	0.0	50.49	51.00



Test Report No. LLIA001067-012A

Catalog Number: 3-668-124 Ellipse Pendant with Glass Enclosure

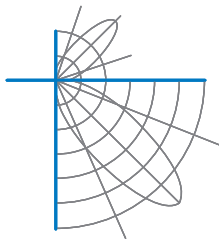
Pendant mounted, formed and machined steel housing, center lampholder with cast aluminum heatsink, frosted glass enclosure below LEDs, translucent white glass enclosure.

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, 7.09W, 0.985PF, 12.5%THD(i)





Test Report No. LLIA001067-012A

Catalog Number: 3-668-124 Ellipse Pendant with Glass Enclosure

Pendant 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, 7.09W, 0.985PF, 12.5%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.

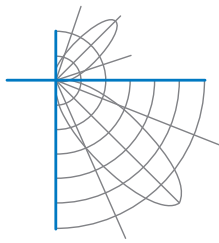
Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

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

LLIA001067-012B

Integrating Sphere Report

Catalog Number: 3-668-124 Ellipse Pendant with Glass Enclosure

Pendant 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.

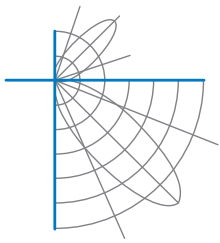


Performance Summary

Voltage	120.0 Vac
Current	0.0600 A
Power	7.10 W
Frequency	59.99 Hz
Power Factor	0.986
Current THD	12.5 %
Total Luminous Flux	174.9 lm
Efficacy	24.6 lm/W
Chromaticity (x,y)	(0.4358, 0.3979)
(u',v')	(0.2525, 0.5188)
Duv	-0.0023
CCT	2969 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: 01/15/2019



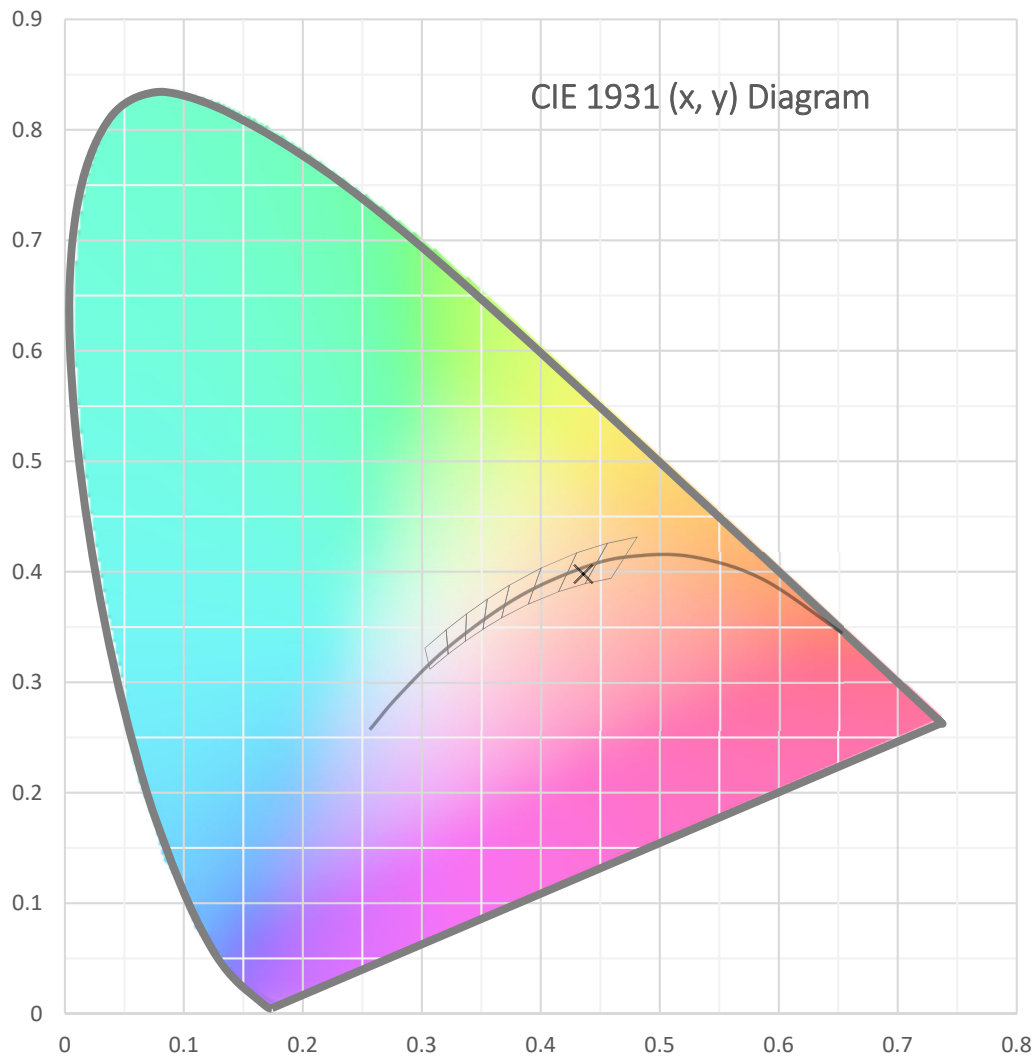
Test Report Number: LLIA001067-012B

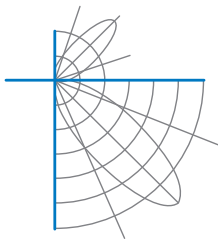
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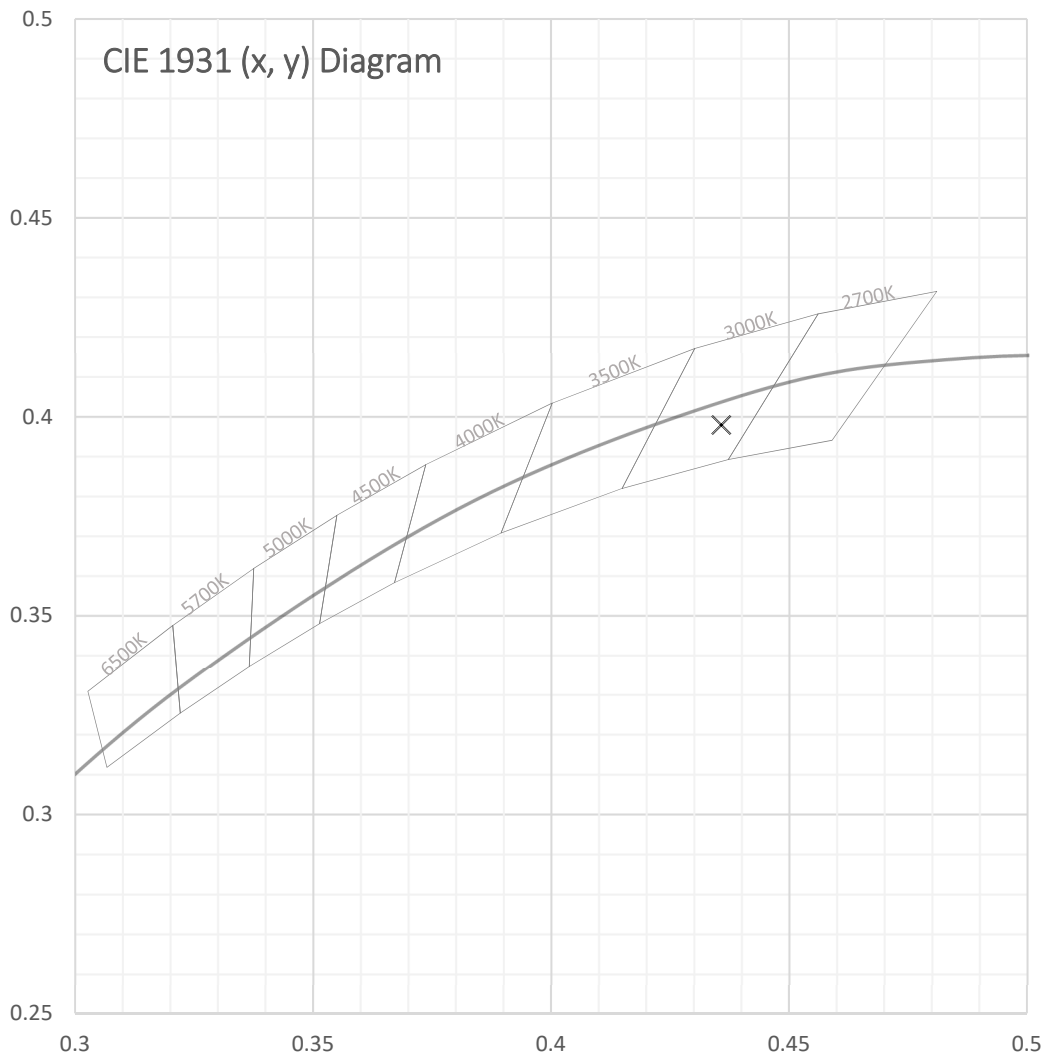
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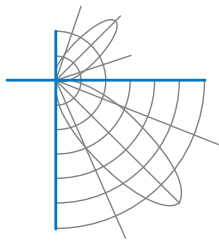
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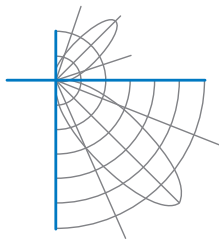
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Spectral Data	Total Radiant Flux	0.662 W
	Total Luminous Flux	174.9 Lm
	Chromaticity CIE 1931 (x, y)	(0.4358, 0.3979)
	Chromaticity CIE 1976 (u', v')	(0.2525, 0.5188)
	Correlated Color Temperature (CCT)	2969 K
	Color Rendering Index (Ra)	97
	R1	98
	R2	99
	R3	97
	R4	97
	R5	98
	R6	97
	R7	96
	R8	93
	R9	86
	R10	96
	R11	97
	R12	84
	R13	99
	R14	97
	TM-30: Rf	93
	TM-30: Rg	101
	Distance from Planckian Locus (Duv)	-0.0023
	Scotopic/Photopic Ratio *	1.444

Electrical Data

Voltage	120.0 Vac
Current	0.0600 A
Power	7.10 W
Frequency	59.99 Hz
Power Factor	0.986
Current THD	12.5 %



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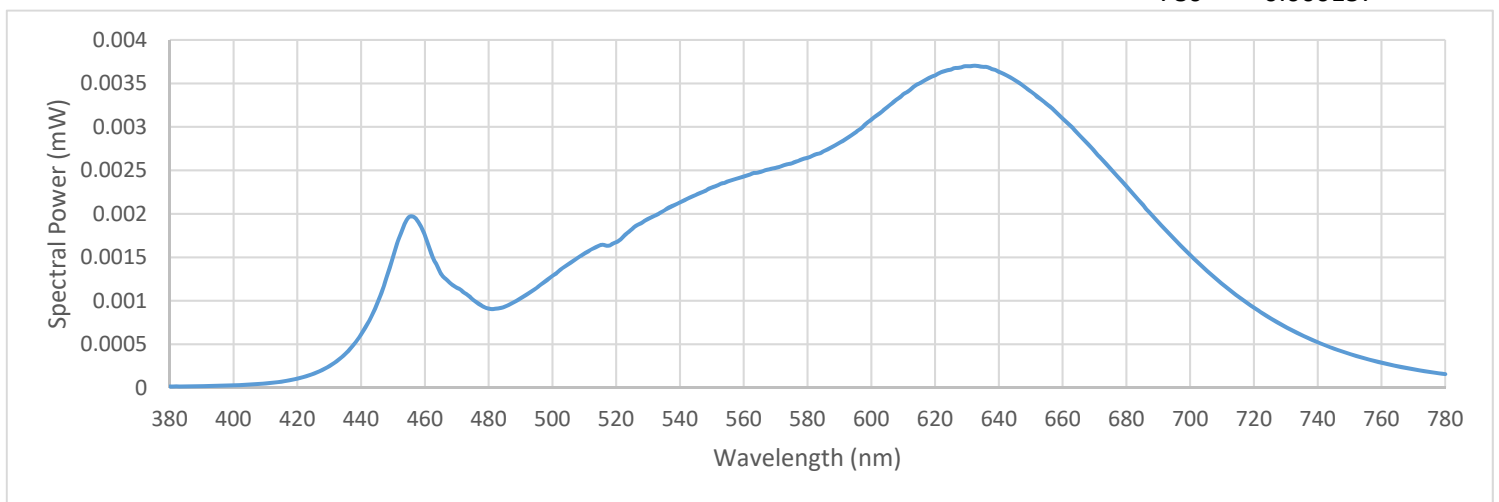
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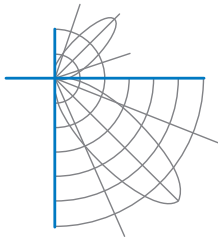
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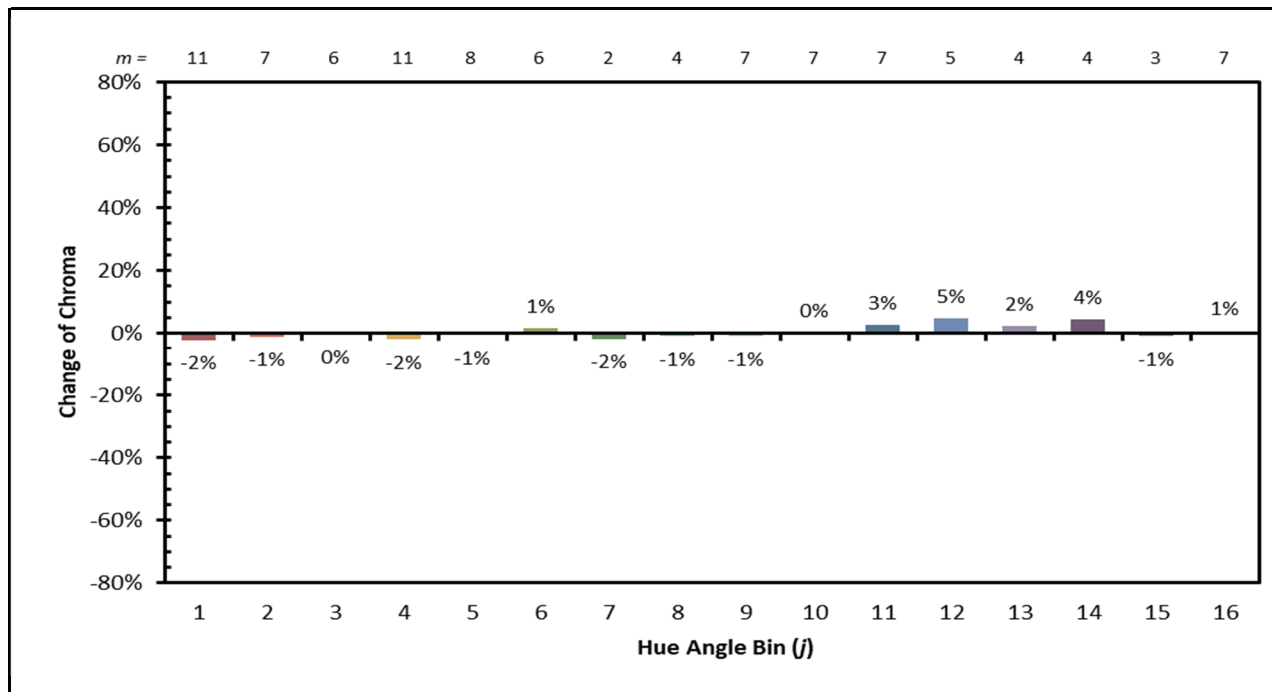
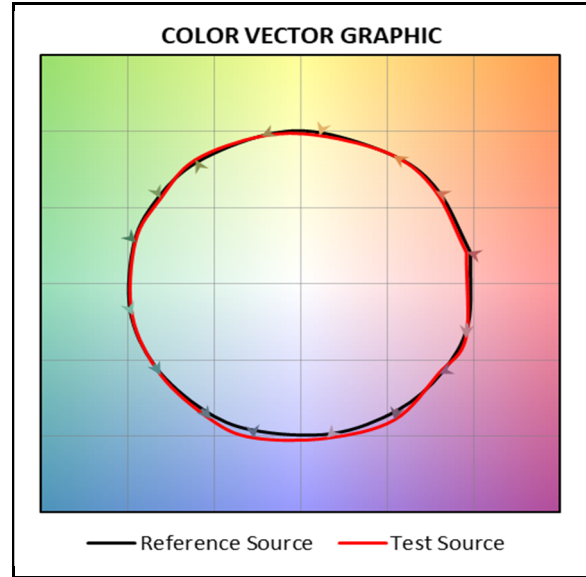
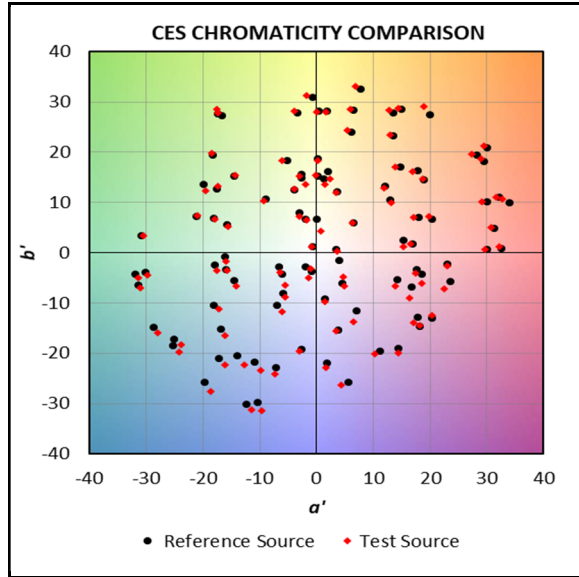
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

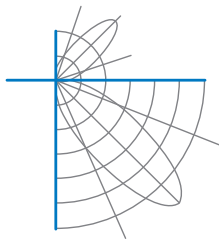
380	0.000015	480	0.000911	580	0.002645	680	0.002316
385	0.000015	485	0.000931	585	0.002720	685	0.002114
390	0.000018	490	0.001029	590	0.002817	690	0.001906
395	0.000022	495	0.001145	595	0.002934	695	0.001707
400	0.000028	500	0.001288	600	0.003082	700	0.001531
405	0.000036	505	0.001423	605	0.003227	705	0.001354
410	0.000050	510	0.001542	610	0.003374	710	0.001193
415	0.000070	515	0.001640	615	0.003498	715	0.001052
420	0.000106	520	0.001673	620	0.003592	720	0.000921
425	0.000161	525	0.001826	625	0.003659	725	0.000802
430	0.000249	530	0.001941	630	0.003698	730	0.000700
435	0.000389	535	0.002035	635	0.003690	735	0.000606
440	0.000611	540	0.002132	640	0.003634	740	0.000522
445	0.000966	545	0.002217	645	0.003537	745	0.000451
450	0.001502	550	0.002303	650	0.003410	750	0.000389
455	0.001963	555	0.002375	655	0.003263	755	0.000335
460	0.001753	560	0.002429	660	0.003100	760	0.000289
465	0.001313	565	0.002480	665	0.002915	765	0.000248
470	0.001151	570	0.002529	670	0.002719	770	0.000213
475	0.001014	575	0.002580	675	0.002522	775	0.000183
						780	0.000157





IES TM-30 Summary





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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: 24.4 °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.