



Report of Test

LLIA000954-005A

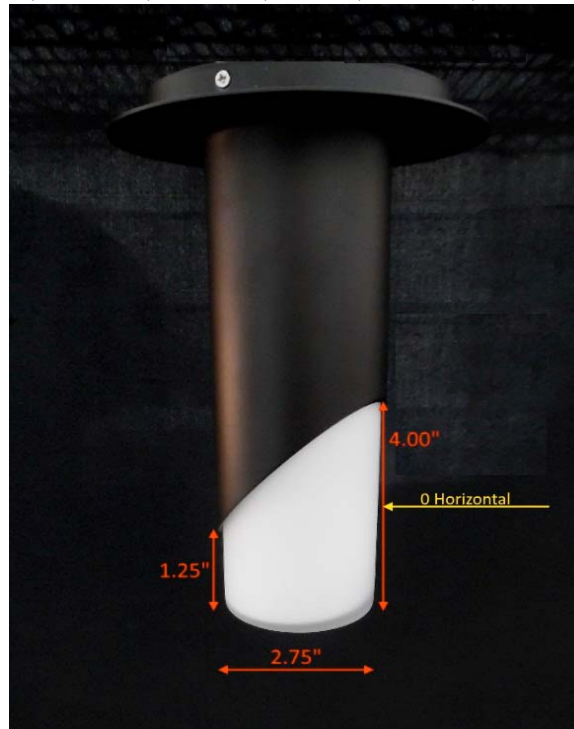
Catalog Number: 3-353-115 Ellipse SM

Ceiling mounted, formed steel housing, formed steel center lamp holder, cast aluminum heatsink, frosted glass enclosure above LEDs, translucent white glass enclosure with aluminum outer shade.

12 white LEDs, one Harvard Engineering E-C041041-01201J15-930 LED board

One LTF DA6W150C2040LPD010-0014 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0591A, 6.56W, 0.926PF, 10.7%THD(i)



Performance Summary

Total Light Output	107 lm
Luminaire Power	6.56 W
Luminous Efficacy	16.3 lm/W

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



Test Report No. LLIA000954-005A

Catalog Number: 3-353-115 Ellipse SM

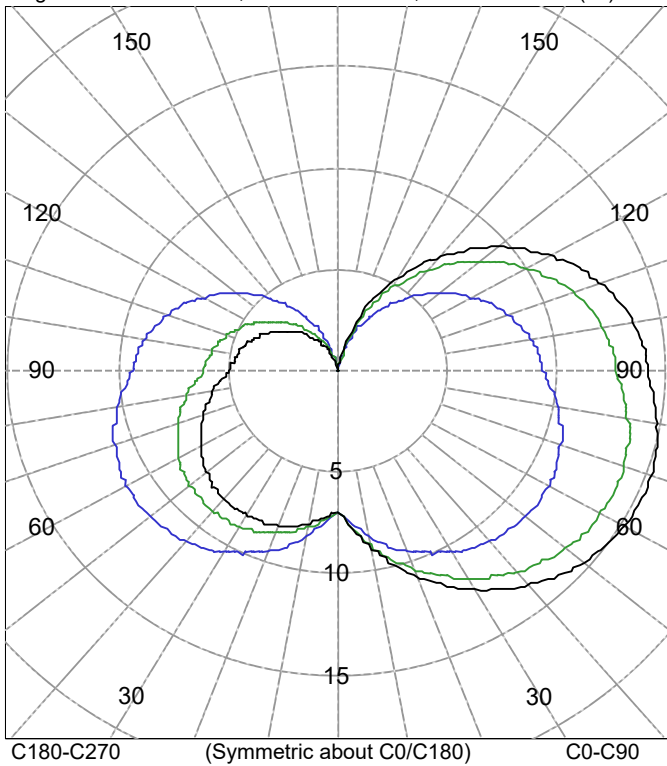
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120.0Vac, 60.00Hz, 0.0591A, 6.56W, 0.926PF, 10.7%THD(i)

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



INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	7.0	7.0	7.0	7.0	7.0	
5.0	7.8	7.8	7.8	7.7	7.6	1
10.0	8.9	8.9	8.7	8.5	8.3	
15.0	9.9	9.8	9.6	9.3	8.9	3
20.0	10.8	10.7	10.4	10.0	9.4	
25.0	11.6	11.5	11.1	10.6	9.9	5
30.0	12.4	12.3	11.8	11.1	10.3	
35.0	13.1	12.9	12.3	11.6	10.6	7
40.0	13.7	13.5	12.9	12.0	10.9	
45.0	14.2	14.0	13.2	12.2	11.1	9
50.0	14.6	14.4	13.6	12.5	11.2	
55.0	14.9	14.6	13.8	12.6	11.2	10
60.0	15.1	14.8	13.9	12.6	11.1	
65.0	15.2	14.9	13.9	12.6	11.0	11
70.0	15.2	14.8	13.8	12.4	10.8	
75.0	15.1	14.7	13.7	12.2	10.5	11
80.0	14.8	14.4	13.4	11.9	10.2	
85.0	14.5	14.1	13.0	11.5	9.7	11
90.0	14.1	13.8	12.7	11.1	9.4	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	8	N / A	7.3
0-40	15	N / A	13.6
0-60	33	N / A	30.9
0-90	66	N / A	61.5
40-90	51	N / A	47.9
60-90	33	N / A	30.5
90-180	41	N / A	38.5
0-180	107	N / A	100.0

Total Light Output = 107 lm

Signed:

Authorized Signatory

Date of test

8-Mar-2018

Date of report

17-Mar-2018



Test Report No. LLIA000954-005A

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120.0Vac, 60.00Hz, 0.0591A, 6.56W, 0.926PF, 10.7%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	7.0	7.0	7.0	7.0	7.0
2.5	7.3	7.3	7.3	7.3	7.2
5.0	7.8	7.8	7.8	7.7	7.6
7.5	8.4	8.3	8.3	8.1	7.9
10.0	8.9	8.9	8.7	8.5	8.3
12.5	9.4	9.3	9.2	8.9	8.6
15.0	9.9	9.8	9.6	9.3	8.9
17.5	10.4	10.3	10.0	9.6	9.2
20.0	10.8	10.7	10.4	10.0	9.4
22.5	11.3	11.1	10.8	10.3	9.7
25.0	11.6	11.5	11.1	10.6	9.9
27.5	12.0	11.9	11.5	10.9	10.1
30.0	12.4	12.3	11.8	11.1	10.3
32.5	12.8	12.6	12.1	11.4	10.5
35.0	13.1	12.9	12.3	11.6	10.6
37.5	13.4	13.2	12.6	11.8	10.8
40.0	13.7	13.5	12.9	12.0	10.9
42.5	14.0	13.7	13.1	12.1	11.0
45.0	14.2	14.0	13.2	12.2	11.1
47.5	14.4	14.2	13.4	12.4	11.1
50.0	14.6	14.4	13.6	12.5	11.2
52.5	14.8	14.5	13.7	12.5	11.2
55.0	14.9	14.6	13.8	12.6	11.2
57.5	15.1	14.7	13.9	12.6	11.1
60.0	15.1	14.8	13.9	12.6	11.1
62.5	15.2	14.9	13.9	12.6	11.1
65.0	15.2	14.9	13.9	12.6	11.0
67.5	15.2	14.9	13.9	12.5	10.9
70.0	15.2	14.8	13.8	12.4	10.8
72.5	15.2	14.8	13.8	12.3	10.7
75.0	15.1	14.7	13.7	12.2	10.5
77.5	15.0	14.6	13.6	12.1	10.4
80.0	14.8	14.4	13.4	11.9	10.2
82.5	14.7	14.3	13.2	11.7	10.0
85.0	14.5	14.1	13.0	11.5	9.7
87.5	14.2	13.9	12.8	11.3	9.5
90.0	14.1	13.8	12.7	11.1	9.4



Test Report No. LLIA000954-005A

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One LTF DA6W150C2040LPD010-0014 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0591A, 6.56W, 0.926PF, 10.7%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	14.1	13.8	12.7	11.1	9.4
92.5	14.1	13.7	12.6	11.1	9.3
95.0	14.0	13.6	12.5	11.0	9.2
97.5	13.8	13.5	12.4	10.9	9.1
100.0	13.7	13.3	12.2	10.7	8.9
102.5	13.5	13.1	12.1	10.6	8.8
105.0	13.2	12.9	11.9	10.4	8.6
107.5	13.0	12.6	11.6	10.2	8.4
110.0	12.7	12.3	11.4	9.9	8.2
112.5	12.4	12.0	11.1	9.7	8.0
115.0	12.0	11.7	10.8	9.4	7.7
117.5	11.7	11.3	10.4	9.0	7.4
120.0	11.3	11.0	10.0	8.7	7.2
122.5	10.8	10.5	9.7	8.4	6.9
125.0	10.4	10.1	9.3	8.0	6.6
127.5	9.9	9.6	8.8	7.6	6.3
130.0	9.4	9.2	8.4	7.3	5.9
132.5	9.0	8.7	7.9	6.8	5.6
135.0	8.5	8.2	7.4	6.4	5.3
137.5	7.9	7.7	7.0	6.0	4.9
140.0	7.4	7.1	6.5	5.6	4.6
142.5	6.8	6.6	6.0	5.2	4.2
145.0	6.2	6.1	5.5	4.7	3.9
147.5	5.7	5.5	5.0	4.3	3.5
150.0	5.1	4.9	4.5	3.9	3.2
152.5	4.6	4.4	4.0	3.4	2.8
155.0	4.0	3.9	3.5	3.0	2.5
157.5	3.5	3.4	3.0	2.6	2.1
160.0	2.9	2.8	2.4	2.1	1.7
162.5	1.8	1.8	1.7	1.5	1.3
165.0	0.7	0.7	0.8	0.9	0.8
167.5	0.1	0.1	0.1	0.2	0.2
170.0	0.0	0.0	0.0	0.0	0.0
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



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One LTF DA6W150C2040LPD010-0014 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0591A, 6.56W, 0.926PF, 10.7%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	7.0	7.0	7.0	7.0	7.0
2.5	7.2	7.2	7.1	7.1	7.1
5.0	7.6	7.5	7.4	7.3	7.3
7.5	7.9	7.8	7.6	7.5	7.4
10.0	8.3	8.1	7.8	7.7	7.6
12.5	8.6	8.3	8.0	7.8	7.8
15.0	8.9	8.5	8.2	8.0	7.9
17.5	9.2	8.7	8.3	8.1	8.0
20.0	9.4	8.9	8.5	8.2	8.1
22.5	9.7	9.1	8.6	8.3	8.2
25.0	9.9	9.3	8.7	8.3	8.2
27.5	10.1	9.4	8.8	8.4	8.2
30.0	10.3	9.5	8.9	8.4	8.3
32.5	10.5	9.6	8.9	8.4	8.2
35.0	10.6	9.7	8.9	8.4	8.2
37.5	10.8	9.8	9.0	8.4	8.2
40.0	10.9	9.8	9.0	8.4	8.1
42.5	11.0	9.9	8.9	8.3	8.1
45.0	11.1	9.9	8.9	8.3	8.0
47.5	11.1	9.9	8.8	8.2	7.9
50.0	11.2	9.9	8.8	8.1	7.8
52.5	11.2	9.9	8.7	7.9	7.7
55.0	11.2	9.8	8.6	7.8	7.5
57.5	11.1	9.7	8.5	7.7	7.4
60.0	11.1	9.7	8.4	7.5	7.3
62.5	11.1	9.6	8.2	7.4	7.1
65.0	11.0	9.4	8.1	7.2	6.9
67.5	10.9	9.3	7.9	7.0	6.7
70.0	10.8	9.2	7.8	6.9	6.6
72.5	10.7	9.0	7.6	6.7	6.4
75.0	10.5	8.8	7.4	6.5	6.2
77.5	10.4	8.6	7.2	6.3	6.0
80.0	10.2	8.4	7.0	6.1	5.8
82.5	10.0	8.2	6.8	5.9	5.6
85.0	9.7	8.0	6.5	5.6	5.3
87.5	9.5	7.7	6.3	5.4	5.1
90.0	9.4	7.6	6.1	5.2	5.0



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One LTF DA6W150C2040LPD010-0014 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0591A, 6.56W, 0.926PF, 10.7%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	9.4	7.6	6.1	5.2	5.0
92.5	9.3	7.5	6.0	5.2	4.8
95.0	9.2	7.4	6.0	5.1	4.8
97.5	9.1	7.3	5.9	5.0	4.7
100.0	8.9	7.2	5.8	4.9	4.6
102.5	8.8	7.0	5.7	4.9	4.6
105.0	8.6	6.9	5.6	4.7	4.5
107.5	8.4	6.7	5.4	4.6	4.3
110.0	8.2	6.6	5.3	4.5	4.3
112.5	8.0	6.4	5.1	4.4	4.1
115.0	7.7	6.2	5.0	4.3	4.0
117.5	7.4	6.0	4.8	4.1	3.9
120.0	7.2	5.7	4.6	3.9	3.7
122.5	6.9	5.5	4.4	3.8	3.5
125.0	6.6	5.3	4.2	3.6	3.4
127.5	6.3	5.0	4.0	3.4	3.3
130.0	5.9	4.8	3.8	3.3	3.1
132.5	5.6	4.5	3.6	3.1	2.9
135.0	5.3	4.2	3.4	2.9	2.7
137.5	4.9	3.9	3.2	2.7	2.5
140.0	4.6	3.6	2.9	2.5	2.3
142.5	4.2	3.4	2.7	2.3	2.1
145.0	3.9	3.1	2.4	2.1	2.0
147.5	3.5	2.8	2.2	1.9	1.8
150.0	3.2	2.5	2.0	1.7	1.6
152.5	2.8	2.2	1.8	1.5	1.4
155.0	2.5	1.9	1.5	1.3	1.2
157.5	2.1	1.7	1.3	1.1	1.0
160.0	1.7	1.4	1.1	0.9	0.9
162.5	1.3	1.1	0.9	0.7	0.7
165.0	0.8	0.7	0.6	0.6	0.5
167.5	0.2	0.3	0.3	0.3	0.3
170.0	0.0	0.0	0.0	0.0	0.0
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: LLIA000954-005A

Catalog Number: 3-353-115 Ellipse SM

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12 white LEDs, one Harvard Engineering E-C041041-01201115-930 LED board

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Coefficients Of Utilization - Zonal Cavity Method

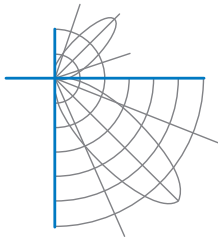
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	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	61
1	95	89	83	78	88	83	77	73	71	67	63	61	58	55	51	49	46	41
2	85	75	66	59	78	69	62	56	60	54	49	50	46	42	42	38	35	31
3	76	64	55	47	70	60	51	44	51	44	39	43	38	33	36	31	28	24
4	69	56	46	39	64	52	43	36	44	37	32	37	32	27	31	26	23	19
5	63	49	39	32	58	46	37	30	39	32	26	33	27	23	27	23	19	16
6	58	44	34	27	53	40	32	26	35	28	22	29	24	19	24	20	16	13
7	53	39	30	23	49	36	28	22	31	24	19	26	21	16	22	17	14	11
8	49	35	26	20	45	33	25	19	28	22	17	24	18	14	20	15	12	10
9	46	32	24	18	42	30	22	17	26	19	15	22	17	13	18	14	11	8
10	43	29	21	16	39	27	20	15	24	17	13	20	15	11	17	13	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	12.84	12.94
8.0	0.1	17.12	17.26
10.0	0.1	21.40	21.57
12.0	0.0	25.68	25.89
14.0	0.0	29.96	30.20
16.0	0.0	34.24	34.52



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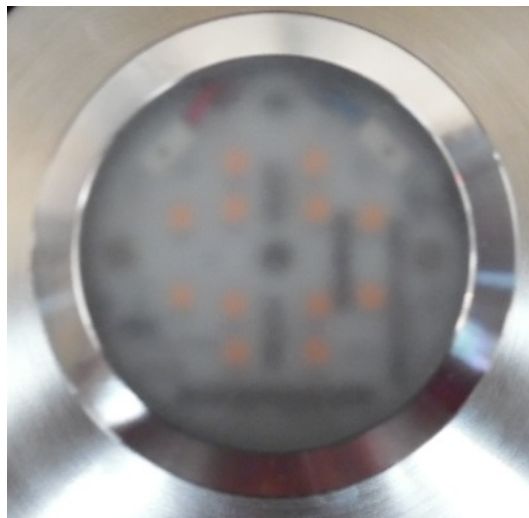
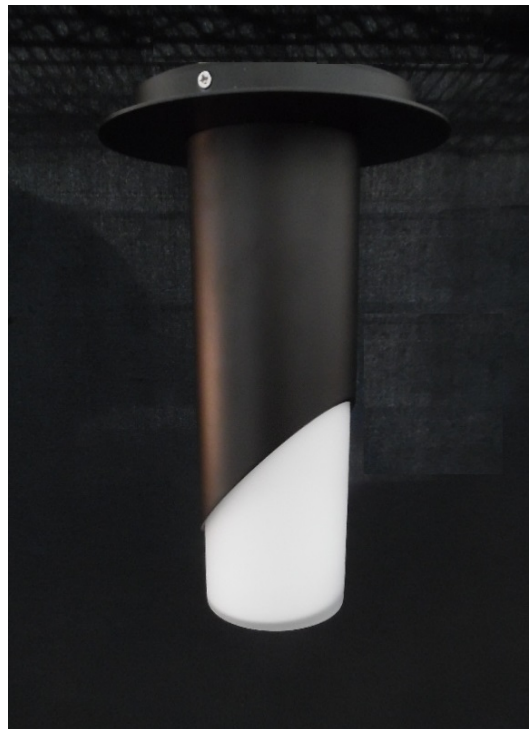
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Test Distance 9.5 m
Test Temperature 24.9 °C

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

LLIA000954-005B

Integrating Sphere Report

Catalog Number: 3-353-115 Ellipse SM

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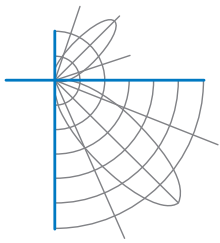


Performance Summary

Voltage	120.0 Vac
Current	0.0590 A
Power	6.55 W
Frequency	59.97 Hz
Power Factor	0.927
Current THD	10.9 %
Total Luminous Flux	108.8 lm
Efficacy	16.6 lm/W
Chromaticity (x,y)	(0.4316, 0.3980)
(u',v')	(0.2497, 0.5182)
Duv	-0.0017
CCT	3042 K
CRI (Ra)	96
R9	86
TM-30: Rf	93
TM-30: Rg	101

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

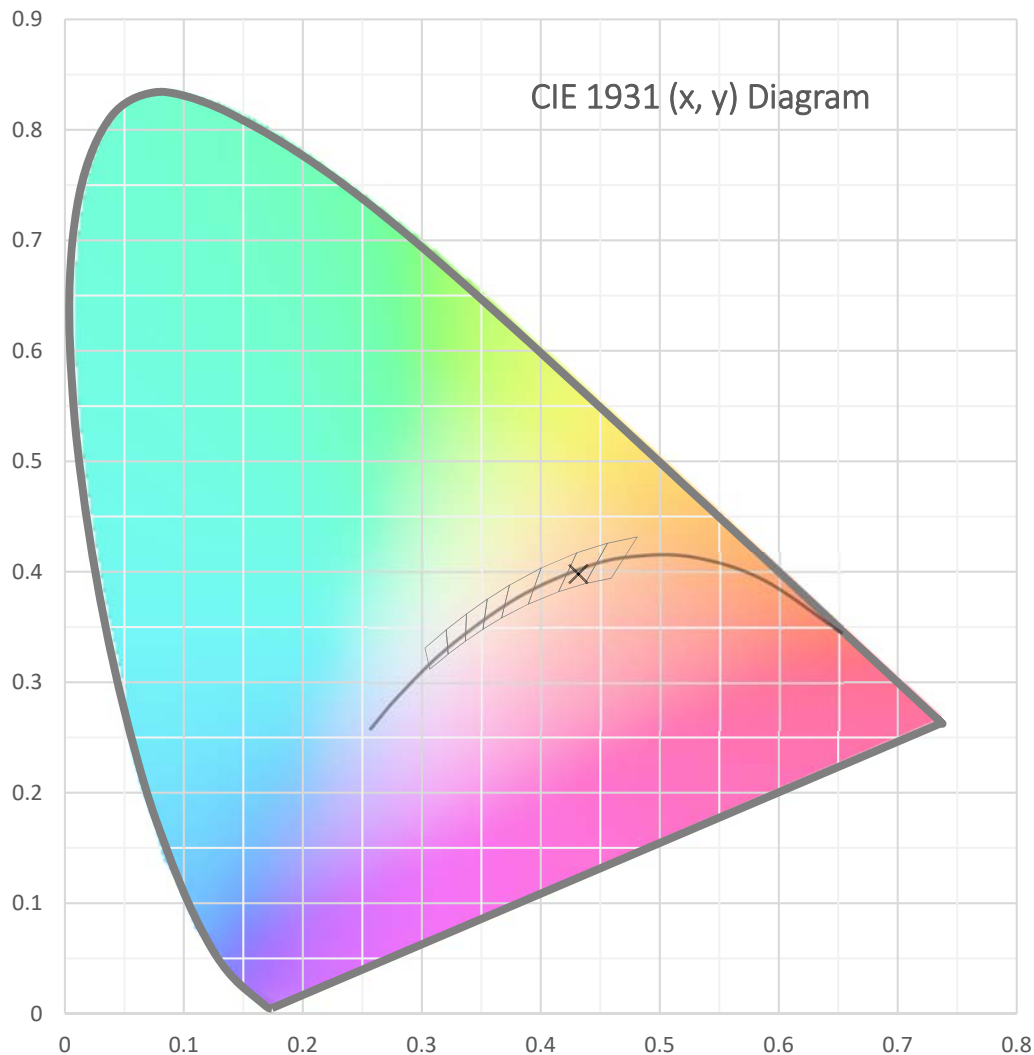
Test date: 03/05/2018
Report date: 03/17/2018

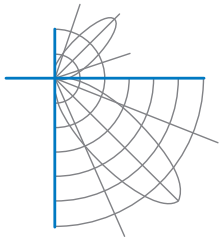


Test Report Number: LLIA000954-005B

Catalog Number: 3-353-115 Ellipse SM

Ceiling mounted, formed steel housing, formed steel center lamp holder, cast aluminum heatsink, frosted glass enclosure above LEDs, translucent white glass enclosure with aluminum outer shade. 12 white LEDs, one Harvard Engineering E-C041041-01201J15-930 LED board
One LTF DA6W150C2040LPD010-0014 dimmable LED driver.

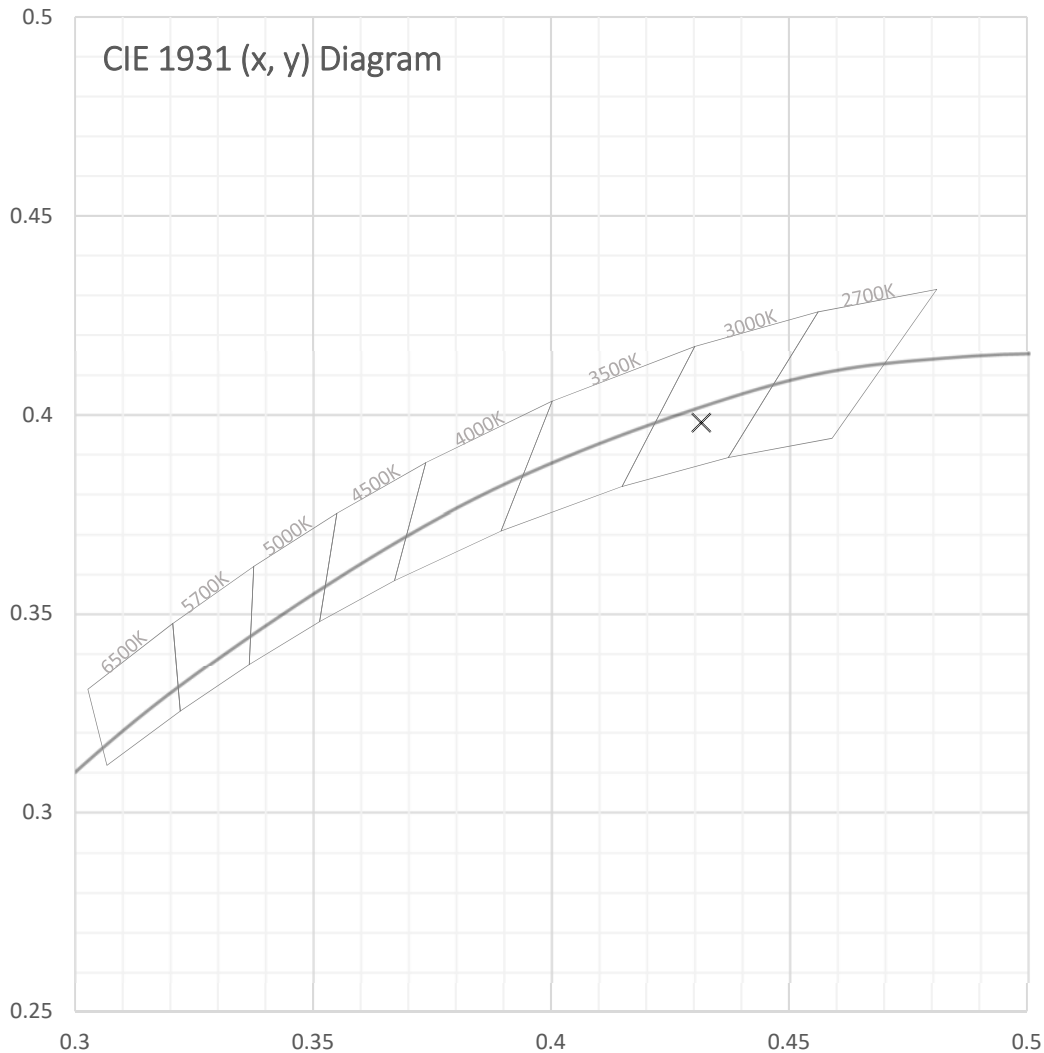




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Spectral Data

Total Radiant Flux	0.412 W
Total Luminous Flux	108.8 Lm
Chromaticity CIE 1931 (x, y)	(0.4316, 0.3980)
Chromaticity CIE 1976 (u', v')	(0.2497, 0.5182)
Correlated Color Temperature (CCT)	3042 K
Color Rendering Index (Ra)	96
R1	98
R2	98
R3	95
R4	96
R5	96
R6	96
R7	97
R8	94
R9	86
R10	93
R11	96
R12	82
R13	98
R14	97
TM-30: Rf	93
TM-30: Rg	101
Distance from Planckian Locus (Duv)	-0.0017
Scotopic/Photopic Ratio *	1.457

Electrical Data

Voltage	120.0 Vac
Current	0.0590 A
Power	6.55 W
Frequency	59.97 Hz
Power Factor	0.927
Current THD	10.9 %



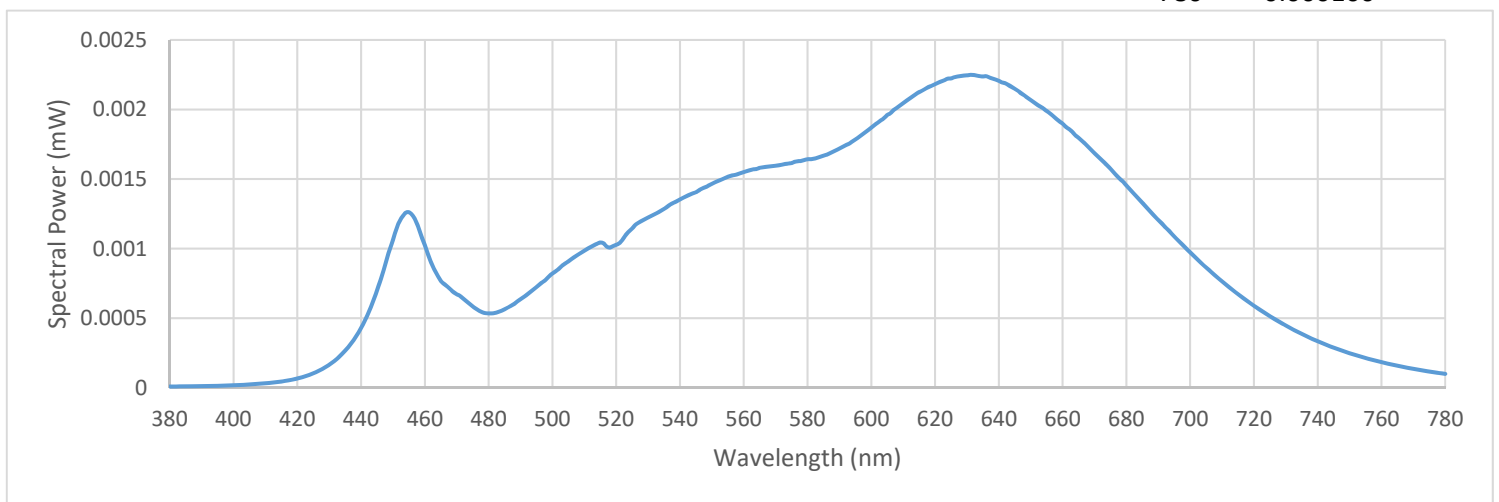
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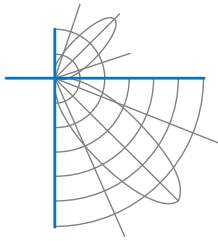
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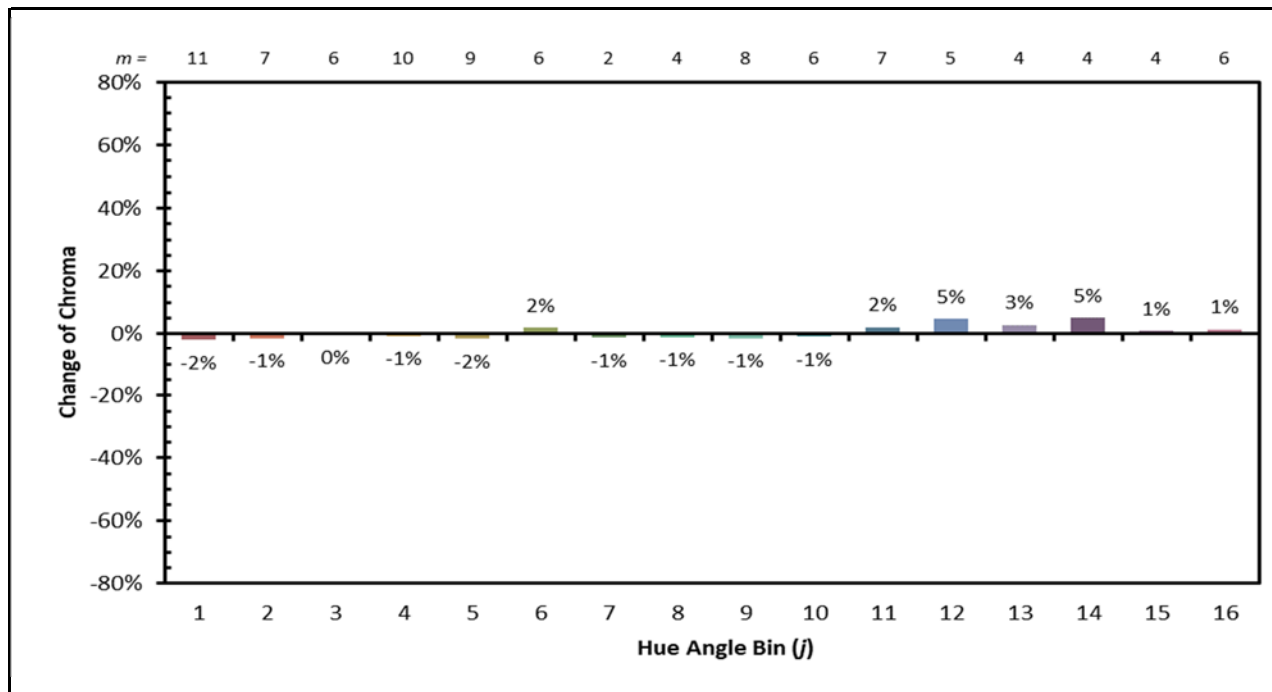
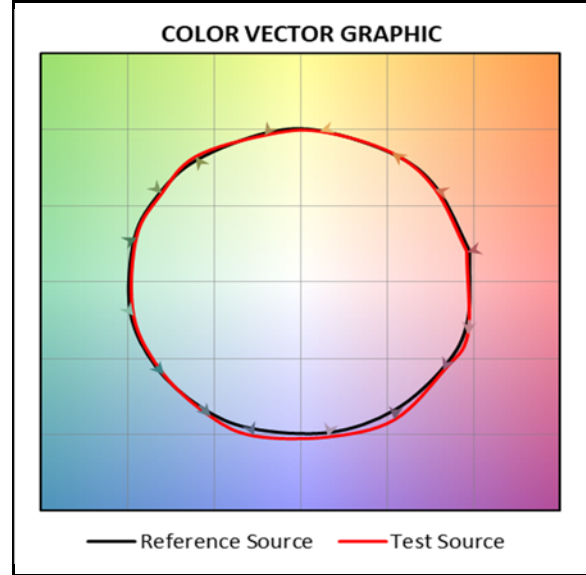
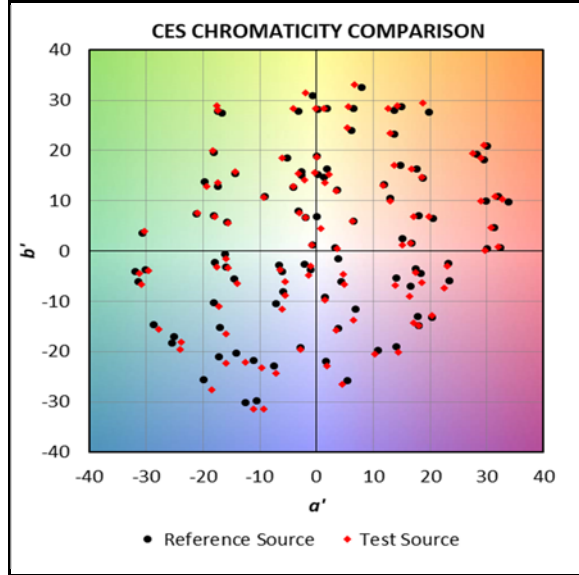
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.000010	480	0.000535	580	0.001642	680	0.001454
385	0.000010	485	0.000564	585	0.001669	685	0.001331
390	0.000012	490	0.000637	590	0.001720	690	0.001207
395	0.000014	495	0.000723	595	0.001785	695	0.001085
400	0.000019	500	0.000821	600	0.001869	700	0.000975
405	0.000024	505	0.000909	605	0.001960	705	0.000863
410	0.000032	510	0.000985	610	0.002047	710	0.000763
415	0.000045	515	0.001044	615	0.002125	715	0.000673
420	0.000067	520	0.001028	620	0.002182	720	0.000590
425	0.000104	525	0.001145	625	0.002223	725	0.000514
430	0.000167	530	0.001224	630	0.002245	730	0.000448
435	0.000267	535	0.001285	635	0.002237	735	0.000387
440	0.000430	540	0.001353	640	0.002207	740	0.000333
445	0.000703	545	0.001405	645	0.002149	745	0.000288
450	0.001064	550	0.001466	650	0.002069	750	0.000248
455	0.001262	555	0.001516	655	0.001988	755	0.000213
460	0.001024	560	0.001550	660	0.001898	760	0.000185
465	0.000769	565	0.001581	665	0.001797	765	0.000158
470	0.000672	570	0.001596	670	0.001687	770	0.000136
475	0.000584	575	0.001615	675	0.001576	775	0.000116
						780	0.000100





IES TM-30 Summary





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One LTF DA6W150C2040LPD010-0014 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: 25.2 °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.