



Report of Test

LLIA000954-008A

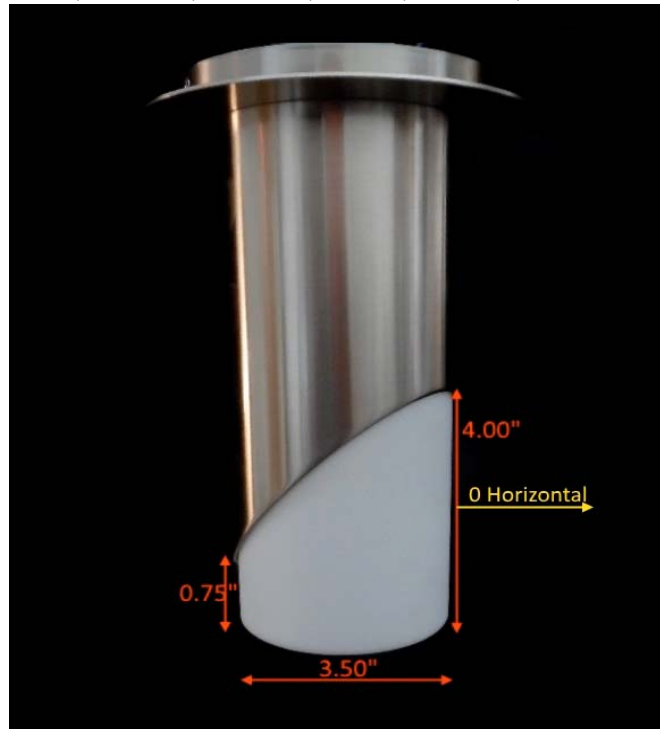
Catalog Number: 3-354-224 Ellipse LG

Ceiling mounted, formed steel housing, formed steel center lamp holder, cast aluminum heatsink, frosted glass enclosure above LEDs, translucent white plastic 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, 0.0598A, 6.65W, 0.927PF, 11.0%THD(i)



Performance Summary

Total Light Output	191 lm
Luminaire Power	6.65 W
Luminous Efficacy	28.7 lm/W

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



Test Report No. LLIA000954-008A

Catalog Number: 3-354-224 Ellipse LG

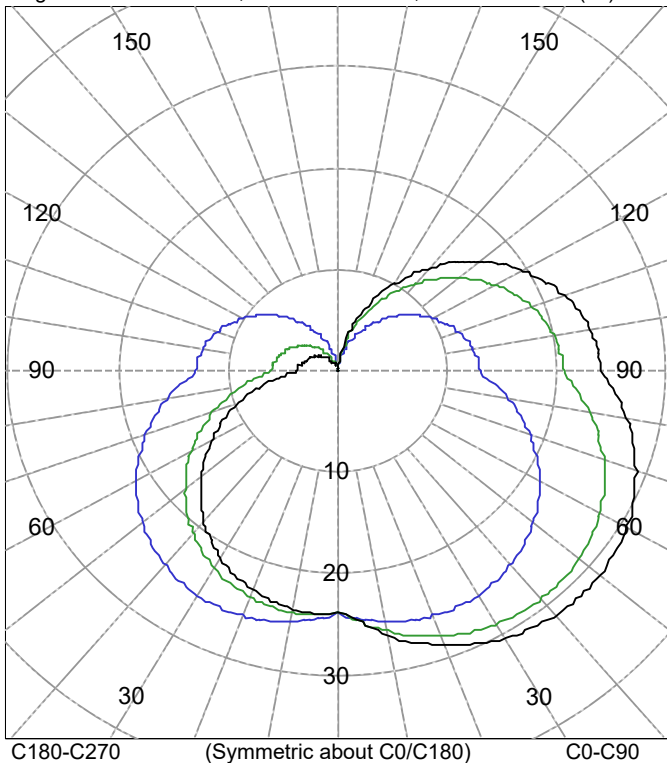
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Legend: C0/C180-Black, C45/C225-Green, C90/C270-Blue (cd)



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

AVERAGE LUMINANCE (cd/m²)

Gamma	C0	C45	C90
45.0	2797	2590	2144
55.0	2704	2467	1942
65.0	2621	2356	1758
75.0	2555	2253	1578
85.0	2501	2161	1408

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	23.8	23.8	23.8	23.8	23.8	
5.0	24.9	25.0	24.9	24.8	24.5	2
10.0	26.4	26.3	26.0	25.6	25.1	
15.0	27.7	27.4	26.9	26.2	25.4	7
20.0	28.8	28.5	27.7	26.7	25.6	
25.0	29.7	29.3	28.3	27.1	25.7	12
30.0	30.4	29.9	28.8	27.2	25.5	
35.0	30.9	30.4	29.0	27.2	25.2	16
40.0	31.2	30.6	29.1	27.1	24.7	
45.0	31.3	30.7	29.0	26.7	24.0	19
50.0	31.2	30.6	28.7	26.1	23.2	
55.0	30.9	30.2	28.2	25.4	22.2	20
60.0	30.4	29.7	27.6	24.6	21.2	
65.0	29.7	29.0	26.7	23.5	19.9	20
70.0	28.9	28.1	25.7	22.4	18.6	
75.0	27.9	27.0	24.6	21.1	17.2	19
80.0	26.7	25.8	23.3	19.7	15.7	
85.0	25.3	24.4	21.9	18.3	14.2	16
90.0	24.0	23.1	20.6	16.9	12.9	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	21	N / A	11.2
0-40	37	N / A	19.6
0-60	76	N / A	39.9
0-90	131	N / A	68.5
40-90	93	N / A	48.9
60-90	55	N / A	28.6
90-180	60	N / A	31.5
0-180	191	N / A	100.0

Total Light Output = 191 lm

Signed:

Authorized Signatory

Date of test

9-Mar-2018

Date of report

18-Mar-2018



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120.0Vac, 60.00Hz, 0.0598A, 6.65W, 0.927PF, 11.0%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	23.8	23.8	23.8	23.8	23.8
2.5	24.2	24.2	24.3	24.3	24.2
5.0	24.9	25.0	24.9	24.8	24.5
7.5	25.7	25.7	25.5	25.2	24.8
10.0	26.4	26.3	26.0	25.6	25.1
12.5	27.1	26.9	26.5	25.9	25.3
15.0	27.7	27.4	26.9	26.2	25.4
17.5	28.3	28.0	27.4	26.5	25.5
20.0	28.8	28.5	27.7	26.7	25.6
22.5	29.3	28.9	28.0	26.9	25.7
25.0	29.7	29.3	28.3	27.1	25.7
27.5	30.1	29.6	28.6	27.2	25.6
30.0	30.4	29.9	28.8	27.2	25.5
32.5	30.6	30.2	28.9	27.3	25.4
35.0	30.9	30.4	29.0	27.2	25.2
37.5	31.1	30.5	29.1	27.2	24.9
40.0	31.2	30.6	29.1	27.1	24.7
42.5	31.3	30.7	29.1	26.9	24.4
45.0	31.3	30.7	29.0	26.7	24.0
47.5	31.3	30.7	28.9	26.4	23.6
50.0	31.2	30.6	28.7	26.1	23.2
52.5	31.1	30.4	28.5	25.8	22.8
55.0	30.9	30.2	28.2	25.4	22.2
57.5	30.7	30.0	27.9	25.0	21.7
60.0	30.4	29.7	27.6	24.6	21.2
62.5	30.1	29.4	27.2	24.1	20.6
65.0	29.7	29.0	26.7	23.5	19.9
67.5	29.4	28.6	26.2	23.0	19.3
70.0	28.9	28.1	25.7	22.4	18.6
72.5	28.4	27.6	25.2	21.8	17.9
75.0	27.9	27.0	24.6	21.1	17.2
77.5	27.3	26.4	23.9	20.4	16.5
80.0	26.7	25.8	23.3	19.7	15.7
82.5	26.0	25.1	22.6	19.0	15.0
85.0	25.3	24.4	21.9	18.3	14.2
87.5	24.6	23.7	21.1	17.5	13.5
90.0	24.0	23.1	20.6	16.9	12.9



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One LTF DA6W150C2040LPD010-0014 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0598A, 6.65W, 0.927PF, 11.0%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	24.0	23.1	20.6	16.9	12.9
92.5	23.9	23.0	20.4	16.9	12.9
95.0	23.7	22.9	20.3	16.8	12.7
97.5	23.6	22.7	20.1	16.6	12.6
100.0	23.3	22.5	19.9	16.4	12.4
102.5	23.1	22.1	19.7	16.2	12.2
105.0	22.7	21.8	19.4	15.9	12.0
107.5	22.3	21.4	19.0	15.6	11.8
110.0	21.9	21.0	18.6	15.3	11.5
112.5	21.3	20.5	18.2	14.9	11.2
115.0	20.8	20.0	17.7	14.5	10.9
117.5	20.2	19.4	17.2	14.1	10.6
120.0	19.6	18.8	16.7	13.6	10.2
122.5	18.9	18.2	16.1	13.1	9.8
125.0	18.2	17.5	15.5	12.6	9.5
127.5	17.5	16.8	14.9	12.1	9.1
130.0	16.7	16.1	14.2	11.5	8.6
132.5	15.9	15.3	13.5	11.0	8.2
135.0	15.1	14.4	12.8	10.4	7.7
137.5	14.2	13.6	12.0	9.8	7.3
140.0	13.3	12.8	11.3	9.1	6.8
142.5	12.4	11.9	10.5	8.5	6.3
145.0	11.5	11.0	9.7	7.9	5.8
147.5	10.5	10.1	8.9	7.2	5.3
150.0	9.6	9.3	8.1	6.6	4.8
152.5	8.7	8.3	7.3	5.9	4.3
155.0	7.7	7.4	6.5	5.3	3.8
157.5	6.8	6.5	5.7	4.6	3.3
160.0	5.9	5.6	4.9	3.9	2.9
162.5	5.0	4.7	4.1	3.2	2.3
165.0	3.9	3.7	3.1	2.4	1.8
167.5	2.1	2.1	2.0	1.6	1.1
170.0	0.6	0.6	0.6	0.5	0.4
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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12 white LEDs, one Harvard Engineering E-C041041-01201J15-930 LED board

One LTF DA6W150C2040LPD010-0014 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0598A, 6.65W, 0.927PF, 11.0%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	23.8	23.8	23.8	23.8	23.8
2.5	24.2	24.1	24.0	24.0	24.0
5.0	24.5	24.3	24.2	24.0	24.0
7.5	24.8	24.5	24.2	24.0	23.9
10.0	25.1	24.6	24.2	23.9	23.8
12.5	25.3	24.6	24.1	23.7	23.6
15.0	25.4	24.6	24.0	23.6	23.5
17.5	25.5	24.6	23.8	23.3	23.2
20.0	25.6	24.5	23.7	23.1	22.9
22.5	25.7	24.4	23.4	22.8	22.6
25.0	25.7	24.3	23.2	22.4	22.2
27.5	25.6	24.1	22.8	22.0	21.8
30.0	25.5	23.8	22.4	21.6	21.3
32.5	25.4	23.5	22.0	21.1	20.8
35.0	25.2	23.2	21.6	20.6	20.2
37.5	24.9	22.8	21.1	20.0	19.6
40.0	24.7	22.4	20.6	19.4	19.0
42.5	24.4	21.9	20.0	18.8	18.4
45.0	24.0	21.4	19.4	18.1	17.7
47.5	23.6	21.0	18.8	17.4	17.0
50.0	23.2	20.4	18.1	16.7	16.3
52.5	22.8	19.8	17.5	16.0	15.5
55.0	22.2	19.2	16.8	15.2	14.7
57.5	21.7	18.6	16.0	14.4	13.9
60.0	21.2	17.9	15.3	13.6	13.1
62.5	20.6	17.2	14.5	12.8	12.3
65.0	19.9	16.5	13.7	12.0	11.5
67.5	19.3	15.8	13.0	11.2	10.6
70.0	18.6	15.0	12.1	10.4	9.8
72.5	17.9	14.2	11.3	9.5	8.9
75.0	17.2	13.5	10.5	8.7	8.1
77.5	16.5	12.6	9.7	7.8	7.2
80.0	15.7	11.9	8.9	7.0	6.4
82.5	15.0	11.1	8.0	6.2	5.6
85.0	14.2	10.3	7.2	5.4	4.8
87.5	13.5	9.5	6.5	4.6	4.0
90.0	12.9	9.0	6.1	4.2	3.6



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

One LTF DA6W150C2040LPD010-0014 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0598A, 6.65W, 0.927PF, 11.0%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	12.9	9.0	6.1	4.2	3.6
92.5	12.9	9.0	6.0	4.2	3.6
95.0	12.7	8.9	5.9	4.1	3.5
97.5	12.6	8.8	5.8	4.0	3.5
100.0	12.4	8.6	5.7	4.0	3.4
102.5	12.2	8.5	5.6	3.9	3.4
105.0	12.0	8.3	5.5	3.8	3.2
107.5	11.8	8.1	5.4	3.7	3.2
110.0	11.5	8.0	5.2	3.6	3.1
112.5	11.2	7.7	5.1	3.5	3.0
115.0	10.9	7.5	4.9	3.4	2.8
117.5	10.6	7.3	4.8	3.2	2.7
120.0	10.2	7.0	4.6	3.1	2.6
122.5	9.8	6.8	4.4	3.0	2.6
125.0	9.5	6.5	4.2	2.9	2.4
127.5	9.1	6.2	4.1	2.7	2.3
130.0	8.6	5.9	3.9	2.6	2.2
132.5	8.2	5.6	3.6	2.4	2.1
135.0	7.7	5.3	3.4	2.3	1.9
137.5	7.3	5.0	3.2	2.1	1.8
140.0	6.8	4.6	3.0	2.0	1.7
142.5	6.3	4.3	2.8	1.8	1.5
145.0	5.8	3.9	2.5	1.7	1.4
147.5	5.3	3.6	2.3	1.5	1.2
150.0	4.8	3.3	2.1	1.3	1.1
152.5	4.3	2.9	1.8	1.2	0.9
155.0	3.8	2.6	1.6	1.0	0.8
157.5	3.3	2.2	1.4	0.8	0.6
160.0	2.9	1.9	1.1	0.7	0.5
162.5	2.3	1.5	0.9	0.5	0.4
165.0	1.8	1.2	0.7	0.4	0.2
167.5	1.1	0.7	0.4	0.2	0.1
170.0	0.4	0.3	0.2	0.1	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: LLIA000954-008A

Catalog Number: 3-354-224 Ellipse LG

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

One LTF DA6W150C2040LPD010-0014 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0598A, 6.65W, 0.927PF, 11.0%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	
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	68
1	98	92	86	81	92	86	81	77	76	72	69	67	64	61	58	56	54	49
2	87	78	70	63	82	73	66	60	64	59	54	56	52	48	49	45	42	38
3	79	67	58	51	74	63	55	48	55	49	43	48	43	39	42	38	34	30
4	72	59	49	42	67	55	46	40	49	41	36	42	37	32	37	32	28	25
5	65	52	42	35	61	49	40	33	43	36	30	38	32	27	33	28	24	21
6	60	46	37	30	56	43	35	29	38	31	26	34	28	23	29	24	21	18
7	55	41	32	26	52	39	31	25	35	28	22	30	25	20	27	22	18	15
8	51	37	29	23	48	35	27	22	31	25	20	28	22	18	24	19	16	13
9	48	34	26	20	45	32	24	19	29	22	17	25	20	16	22	18	14	12
10	45	31	23	18	42	30	22	17	26	20	16	23	18	14	21	16	13	11

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	0.7	9.68	9.54
8.0	0.4	12.91	12.72
10.0	0.2	16.14	15.90
12.0	0.2	19.36	19.07
14.0	0.1	22.59	22.25
16.0	0.1	25.82	25.43



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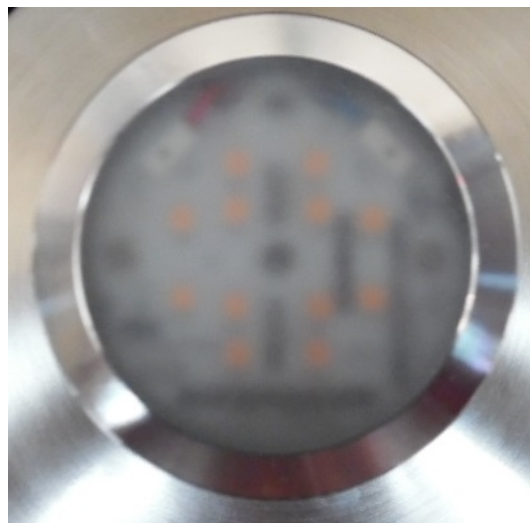
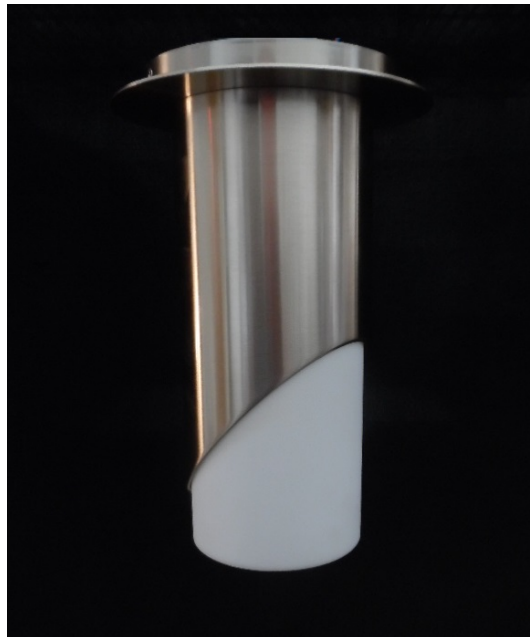
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Test Distance 9.5 m
Test Temperature 25.0 °C

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

LLIA000954-008B

Integrating Sphere Report

Catalog Number: 3-354-224 Ellipse LG

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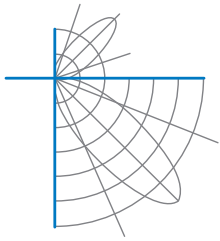


Performance Summary

Voltage	120.0 Vac
Current	0.0596 A
Power	6.64 W
Frequency	59.97 Hz
Power Factor	0.928
Current THD	10.9 %
Total Luminous Flux	194.9 lm
Efficacy	29.4 lm/W
Chromaticity (x,y)	(0.4475, 0.4095)
(u',v')	(0.2551, 0.5251)
Duv	0.0008
CCT	2873 K
CRI (Ra)	96
R9	82
TM-30: Rf	94
TM-30: Rg	101

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

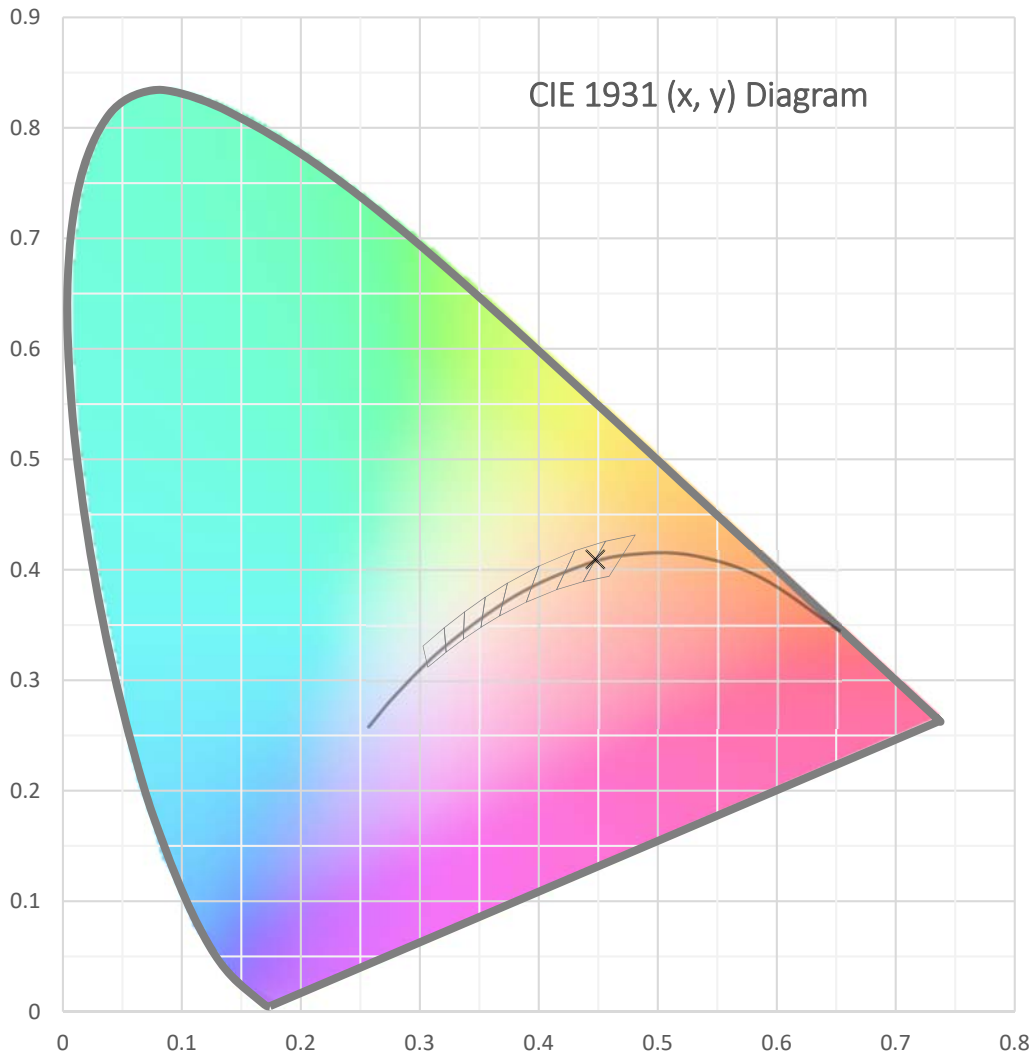
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Report date: 03/17/2018

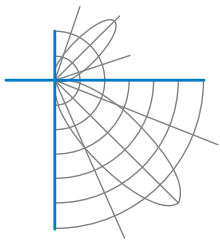


Test Report Number: LLIA000954-008B

Catalog Number: 3-354-224 Ellipse LG

Ceiling mounted, formed steel housing, formed steel center lamp holder, cast aluminum heatsink, frosted glass enclosure above LEDs, translucent white plastic enclosure with aluminum outer shade. 12 white LEDs, one Harvard Engineering E-C041041-01201115-930 LED board. One LTF DA6W150C2040LPD010-0014 dimmable LED driver.

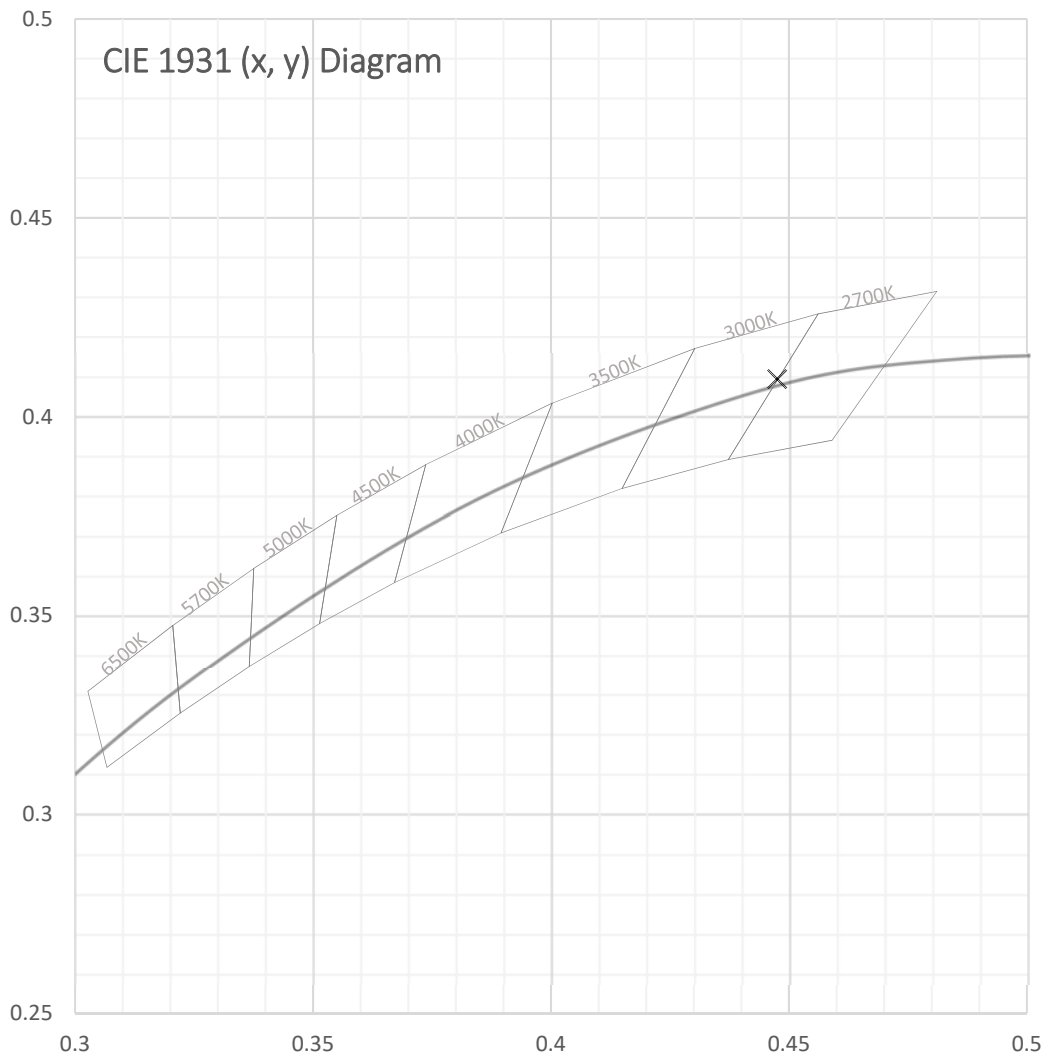




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Spectral Data

Total Radiant Flux	0.727 W
Total Luminous Flux	194.9 Lm
Chromaticity CIE 1931 (x, y)	(0.4475, 0.4095)
Chromaticity CIE 1976 (u', v')	(0.2551, 0.5251)
Correlated Color Temperature (CCT)	2873 K
Color Rendering Index (Ra)	96
R1	97
R2	97
R3	95
R4	97
R5	96
R6	96
R7	97
R8	93
R9	82
R10	91
R11	97
R12	83
R13	97
R14	96
TM-30: Rf	94
TM-30: Rg	101
Distance from Planckian Locus (Duv)	0.0008
Scotopic/Photopic Ratio *	1.363

Electrical Data

Voltage	120.0 Vac
Current	0.0596 A
Power	6.64 W
Frequency	59.97 Hz
Power Factor	0.928
Current THD	10.9 %



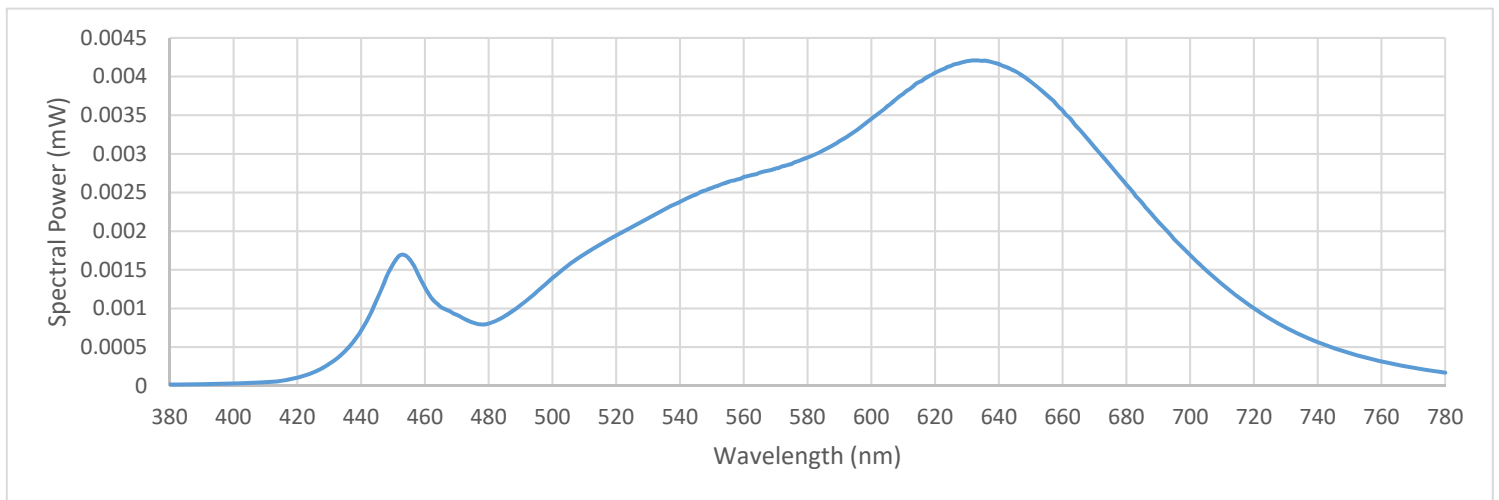
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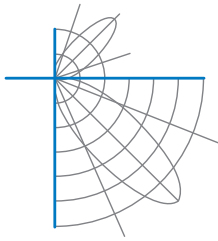
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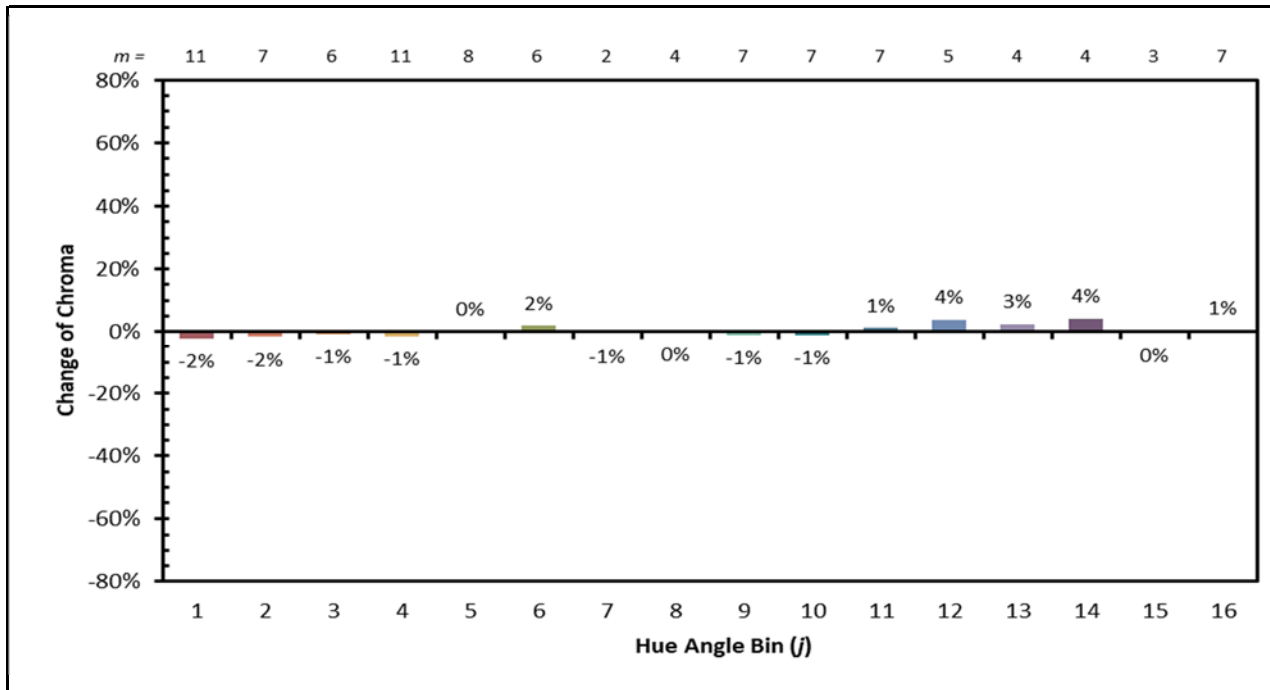
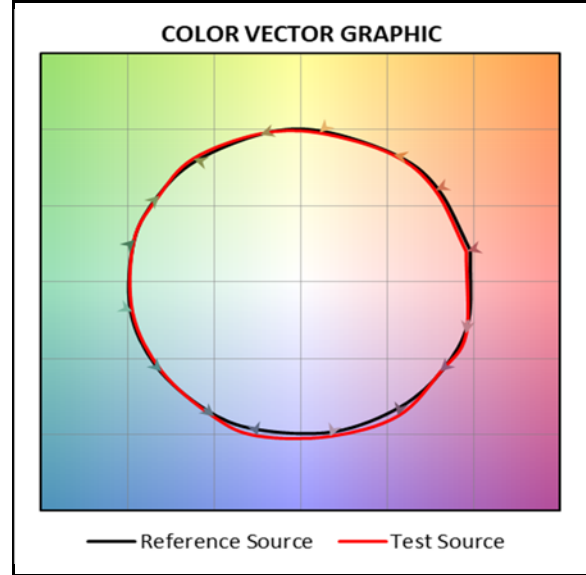
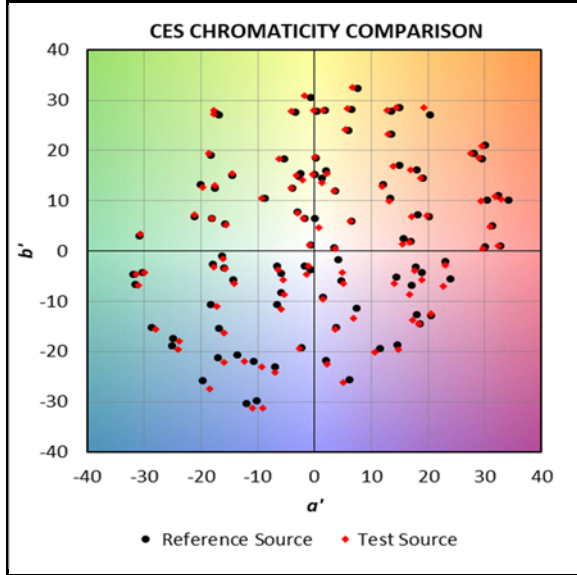
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.000017	480	0.000807	580	0.002952	680	0.002603
385	0.000017	485	0.000902	585	0.003049	685	0.002363
390	0.000020	490	0.001044	590	0.003165	690	0.002126
395	0.000025	495	0.001212	595	0.003294	695	0.001896
400	0.000030	500	0.001394	600	0.003449	700	0.001693
405	0.000037	505	0.001558	605	0.003615	705	0.001493
410	0.000045	510	0.001700	610	0.003777	710	0.001313
415	0.000063	515	0.001827	615	0.003930	715	0.001152
420	0.000105	520	0.001945	620	0.004050	720	0.001002
425	0.000173	525	0.002054	625	0.004138	725	0.000869
430	0.000284	530	0.002167	630	0.004197	730	0.000754
435	0.000451	535	0.002276	635	0.004205	735	0.000651
440	0.000709	540	0.002382	640	0.004163	740	0.000563
445	0.001125	545	0.002474	645	0.004072	745	0.000489
450	0.001571	550	0.002561	650	0.003935	750	0.000423
455	0.001647	555	0.002634	655	0.003759	755	0.000365
460	0.001276	560	0.002700	660	0.003562	760	0.000317
465	0.001018	565	0.002757	665	0.003328	765	0.000271
470	0.000918	570	0.002811	670	0.003087	770	0.000232
475	0.000819	575	0.002870	675	0.002851	775	0.000199
						780	0.000170





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 4 π geometry

Test Temperature: 25.6 °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.