



Report of Test

LLIA000954-007A

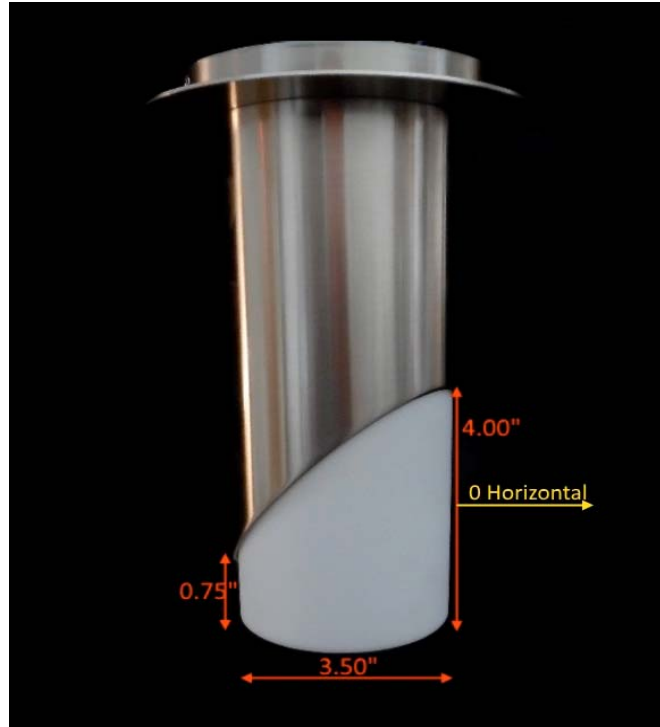
Catalog Number: 3-354-120 Ellipse LG

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, 6.59W, 0.929PF, 10.3%THD(i)



Performance Summary

Total Light Output	176 lm
Luminaire Power	6.59 W
Luminous Efficacy	26.7 lm/W

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



Test Report No. LLIA000954-007A

Catalog Number: 3-354-120 Ellipse LG

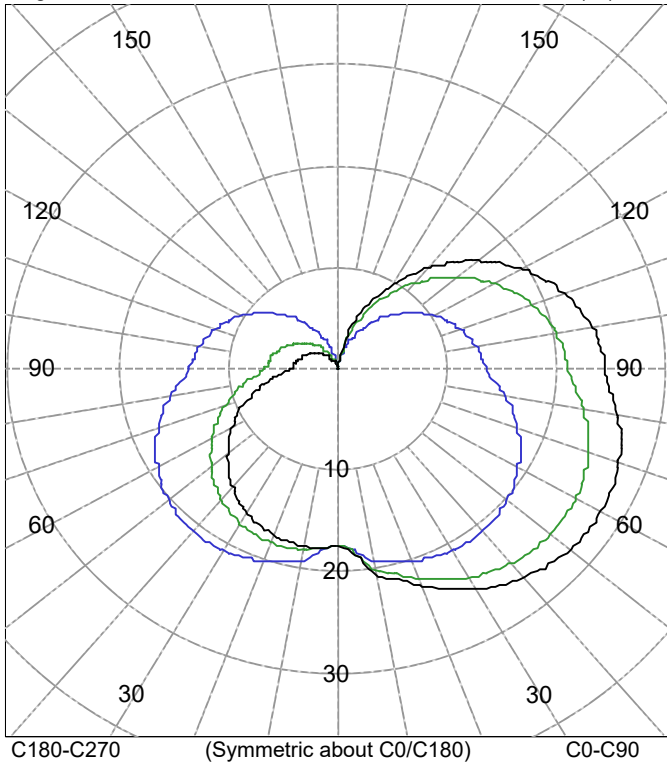
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Legend: C0/C180-Black, C45/C225-Green, C90/C270-Blue (cd)



INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	17.2	17.2	17.2	17.2	17.2	
5.0	18.4	18.4	18.3	18.2	18.0	2
10.0	20.6	20.5	20.3	19.6	19.1	
15.0	21.4	21.3	21.0	20.4	19.6	6
20.0	22.7	22.5	21.9	21.1	20.1	
25.0	23.9	23.6	22.9	21.8	20.5	9
30.0	25.0	24.7	23.7	22.3	20.7	
35.0	25.9	25.5	24.3	22.7	20.8	13
40.0	26.7	26.2	24.8	23.0	20.7	
45.0	27.2	26.7	25.2	23.0	20.5	16
50.0	27.6	27.0	25.3	22.9	20.1	
55.0	27.8	27.2	25.3	22.7	19.6	18
60.0	27.8	27.1	25.1	22.3	19.0	
65.0	27.6	26.9	24.8	21.7	18.3	18
70.0	27.2	26.5	24.2	21.1	17.4	
75.0	26.6	25.9	23.6	20.3	16.5	18
80.0	25.9	25.1	22.7	19.4	15.5	
85.0	25.0	24.1	21.7	18.3	14.3	16
90.0	24.3	23.4	20.9	17.5	13.5	

AVERAGE LUMINANCE (cd/m²)

Gamma	C0	C45	C90
45.0	2432	2246	1828
55.0	2429	2210	1713
65.0	2433	2181	1610
75.0	2445	2161	1514
85.0	2465	2141	1416

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	17	N / A	9.5
0-40	30	N / A	16.9
0-60	63	N / A	36.0
0-90	115	N / A	65.5
40-90	86	N / A	48.5
60-90	52	N / A	29.5
90-180	61	N / A	34.5
0-180	176	N / A	100.0

Total Light Output = 176 lm

Signed:

Authorized Signatory

Date of test

9-Mar-2018

Date of report

18-Mar-2018



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One LTF DA6W150C2040LPD010-0014 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0591A, 6.59W, 0.929PF, 10.3%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	17.2	17.2	17.2	17.2	17.2
2.5	17.7	17.6	17.6	17.5	17.5
5.0	18.4	18.4	18.3	18.2	18.0
7.5	19.5	19.6	19.4	19.1	18.7
10.0	20.6	20.5	20.3	19.6	19.1
12.5	21.2	20.9	20.5	20.0	19.3
15.0	21.4	21.3	21.0	20.4	19.6
17.5	22.0	21.9	21.4	20.7	19.8
20.0	22.7	22.5	21.9	21.1	20.1
22.5	23.3	23.1	22.5	21.5	20.3
25.0	23.9	23.6	22.9	21.8	20.5
27.5	24.5	24.2	23.3	22.1	20.6
30.0	25.0	24.7	23.7	22.3	20.7
32.5	25.5	25.1	24.0	22.6	20.7
35.0	25.9	25.5	24.3	22.7	20.8
37.5	26.3	25.9	24.6	22.9	20.8
40.0	26.7	26.2	24.8	23.0	20.7
42.5	27.0	26.5	25.0	23.0	20.6
45.0	27.2	26.7	25.2	23.0	20.5
47.5	27.4	26.9	25.3	23.0	20.3
50.0	27.6	27.0	25.3	22.9	20.1
52.5	27.8	27.1	25.3	22.8	19.9
55.0	27.8	27.2	25.3	22.7	19.6
57.5	27.8	27.2	25.2	22.5	19.3
60.0	27.8	27.1	25.1	22.3	19.0
62.5	27.7	27.0	25.0	22.0	18.7
65.0	27.6	26.9	24.8	21.7	18.3
67.5	27.4	26.7	24.5	21.4	17.9
70.0	27.2	26.5	24.2	21.1	17.4
72.5	27.0	26.2	23.9	20.7	17.0
75.0	26.6	25.9	23.6	20.3	16.5
77.5	26.3	25.5	23.1	19.8	16.0
80.0	25.9	25.1	22.7	19.4	15.5
82.5	25.4	24.6	22.2	18.8	14.9
85.0	25.0	24.1	21.7	18.3	14.3
87.5	24.5	23.7	21.2	17.7	13.8
90.0	24.3	23.4	20.9	17.5	13.5



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One LTF DA6W150C2040LPD010-0014 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0591A, 6.59W, 0.929PF, 10.3%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	24.3	23.4	20.9	17.5	13.5
92.5	24.2	23.3	20.8	17.3	13.4
95.0	24.0	23.1	20.6	17.1	13.2
97.5	23.8	22.9	20.4	17.0	13.0
100.0	23.6	22.6	20.2	16.7	12.8
102.5	23.2	22.3	19.9	16.5	12.6
105.0	22.8	22.0	19.5	16.2	12.3
107.5	22.4	21.5	19.2	15.8	12.0
110.0	21.9	21.1	18.7	15.4	11.7
112.5	21.4	20.5	18.3	15.1	11.4
115.0	20.8	20.0	17.7	14.6	11.1
117.5	20.2	19.4	17.2	14.2	10.7
120.0	19.5	18.7	16.6	13.7	10.3
122.5	18.8	18.1	16.0	13.1	9.9
125.0	18.1	17.4	15.4	12.6	9.5
127.5	17.3	16.6	14.7	12.1	9.1
130.0	16.5	15.8	14.0	11.5	8.6
132.5	15.6	15.0	13.3	10.9	8.2
135.0	14.8	14.2	12.5	10.3	7.7
137.5	13.9	13.3	11.8	9.6	7.2
140.0	13.0	12.5	11.0	9.0	6.7
142.5	12.1	11.6	10.2	8.3	6.2
145.0	11.2	10.7	9.4	7.7	5.7
147.5	10.2	9.8	8.6	7.0	5.2
150.0	9.3	8.9	7.8	6.3	4.7
152.5	8.3	8.0	7.0	5.7	4.2
155.0	7.4	7.1	6.2	5.0	3.7
157.5	6.5	6.2	5.4	4.3	3.2
160.0	5.5	5.3	4.6	3.7	2.7
162.5	4.6	4.4	3.8	3.0	2.2
165.0	3.5	3.3	2.8	2.2	1.6
167.5	1.7	1.7	1.7	1.4	1.0
170.0	0.4	0.4	0.4	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, 0.0591A, 6.59W, 0.929PF, 10.3%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	17.2	17.2	17.2	17.2	17.2
2.5	17.5	17.5	17.5	17.5	17.5
5.0	18.0	17.8	17.7	17.6	17.6
7.5	18.7	18.2	17.9	17.7	17.7
10.0	19.1	18.5	18.1	17.7	17.6
12.5	19.3	18.6	18.1	17.8	17.6
15.0	19.6	18.8	18.1	17.7	17.6
17.5	19.8	18.9	18.1	17.6	17.4
20.0	20.1	19.0	18.1	17.5	17.3
22.5	20.3	19.1	18.0	17.4	17.1
25.0	20.5	19.1	17.9	17.2	17.0
27.5	20.6	19.1	17.8	17.0	16.7
30.0	20.7	19.0	17.6	16.7	16.4
32.5	20.7	18.9	17.4	16.4	16.1
35.0	20.8	18.8	17.1	16.1	15.8
37.5	20.8	18.6	16.9	15.8	15.4
40.0	20.7	18.5	16.6	15.4	15.0
42.5	20.6	18.2	16.2	15.0	14.6
45.0	20.5	17.9	15.9	14.6	14.1
47.5	20.3	17.7	15.5	14.1	13.7
50.0	20.1	17.3	15.1	13.6	13.1
52.5	19.9	17.0	14.6	13.1	12.6
55.0	19.6	16.6	14.1	12.6	12.1
57.5	19.3	16.2	13.7	12.1	11.6
60.0	19.0	15.8	13.2	11.5	11.0
62.5	18.7	15.4	12.6	11.0	10.4
65.0	18.3	14.9	12.1	10.4	9.8
67.5	17.9	14.4	11.5	9.8	9.3
70.0	17.4	13.9	11.0	9.3	8.7
72.5	17.0	13.3	10.4	8.7	8.1
75.0	16.5	12.8	9.9	8.1	7.5
77.5	16.0	12.2	9.3	7.5	6.9
80.0	15.5	11.6	8.7	6.9	6.3
82.5	14.9	11.1	8.1	6.3	5.7
85.0	14.3	10.5	7.5	5.7	5.1
87.5	13.8	9.9	6.9	5.1	4.5
90.0	13.5	9.6	6.6	4.8	4.2



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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, 0.0591A, 6.59W, 0.929PF, 10.3%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	13.5	9.6	6.6	4.8	4.2
92.5	13.4	9.5	6.5	4.7	4.2
95.0	13.2	9.3	6.4	4.6	4.0
97.5	13.0	9.2	6.3	4.5	3.9
100.0	12.8	9.0	6.2	4.4	3.9
102.5	12.6	8.9	6.0	4.3	3.8
105.0	12.3	8.7	5.9	4.2	3.6
107.5	12.0	8.5	5.7	4.1	3.5
110.0	11.7	8.2	5.6	3.9	3.4
112.5	11.4	8.0	5.4	3.8	3.3
115.0	11.1	7.7	5.2	3.7	3.2
117.5	10.7	7.5	5.0	3.5	3.1
120.0	10.3	7.2	4.8	3.4	2.9
122.5	9.9	6.9	4.6	3.3	2.8
125.0	9.5	6.6	4.4	3.1	2.7
127.5	9.1	6.3	4.2	2.9	2.5
130.0	8.6	6.0	4.0	2.8	2.4
132.5	8.2	5.7	3.7	2.6	2.2
135.0	7.7	5.3	3.5	2.4	2.1
137.5	7.2	5.0	3.3	2.2	1.9
140.0	6.7	4.6	3.0	2.1	1.7
142.5	6.2	4.2	2.8	1.8	1.6
145.0	5.7	3.9	2.5	1.7	1.4
147.5	5.2	3.5	2.2	1.5	1.2
150.0	4.7	3.2	2.0	1.3	1.1
152.5	4.2	2.8	1.8	1.1	0.9
155.0	3.7	2.4	1.5	0.9	0.7
157.5	3.2	2.1	1.3	0.8	0.6
160.0	2.7	1.7	1.1	0.6	0.5
162.5	2.2	1.4	0.8	0.4	0.3
165.0	1.6	1.0	0.6	0.3	0.2
167.5	1.0	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: LLIA000954-007A

Catalog Number: 3-354-120 Ellipse LG

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-C041041-01201115-930 LED board

One LTF DA6W150C2040LPD010-0014 dimmable LED driver.

120.0Vac, 60.00Hz, 0.0591A, 6.59W, 0.929PF, 10.3%THD(i)

Coefficients Of Utilization - Zonal Cavity Method

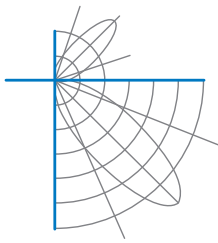
Effective Floor Cavity Reflectance 0.20

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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	65
1	97	90	85	80	90	85	80	75	74	70	66	64	61	58	55	53	50	46
2	86	76	68	61	80	71	64	58	62	56	51	54	49	45	46	42	39	35
3	78	66	56	49	72	61	53	46	53	47	41	46	41	36	39	35	31	27
4	70	57	48	40	65	54	45	38	47	40	34	40	34	30	34	30	26	22
5	64	50	41	34	60	47	39	32	41	34	28	36	30	25	30	26	22	19
6	59	45	35	29	55	42	33	27	37	30	24	32	26	21	27	22	19	16
7	54	40	31	25	50	38	29	24	33	26	21	29	23	19	25	20	16	13
8	50	36	28	22	47	34	26	21	30	23	18	26	20	16	22	18	14	12
9	47	33	25	19	44	31	23	18	27	21	16	24	18	14	21	16	13	10
10	44	30	22	17	41	29	21	16	25	19	14	22	17	13	19	15	11	9

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	0.5	10.69	10.66
8.0	0.3	14.25	14.22
10.0	0.2	17.82	17.77
12.0	0.1	21.38	21.32
14.0	0.1	24.94	24.88
16.0	0.1	28.51	28.43



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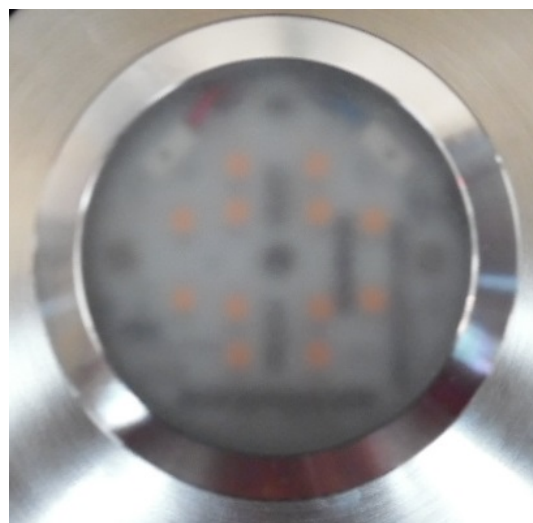
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120.0Vac, 60.00Hz, 0.0591A, 6.59W, 0.929PF, 10.3%THD(i)

Test Distance 9.5 m
Test Temperature 24.7 °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

LLIA000954-007B

Integrating Sphere Report

Catalog Number: 3-354-120 Ellipse LG

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.

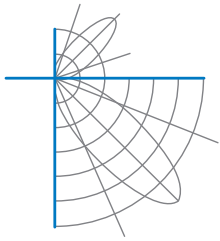


Performance Summary

Voltage	120.0 Vac
Current	0.0587 A
Power	6.56 W
Frequency	59.97 Hz
Power Factor	0.931
Current THD	9.9 %
Total Luminous Flux	179.8 lm
Efficacy	27.4 lm/W
Chromaticity (x,y)	(0.4427, 0.4081)
(u',v')	(0.2526, 0.5238)
Duv	0.0008
CCT	2937 K
CRI (Ra)	96
R9	82
TM-30: Rf	93
TM-30: Rg	100

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

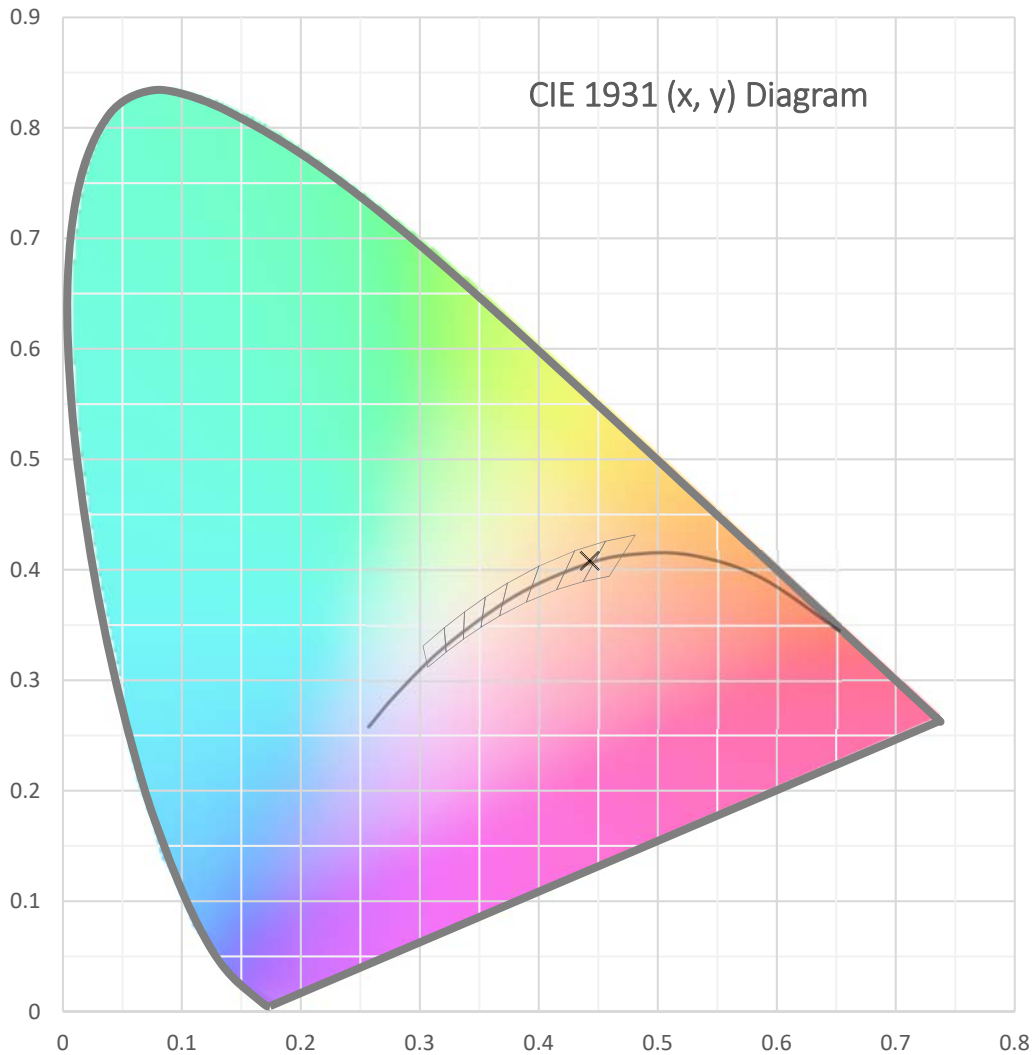
Test date: 03/08/2018
Report date: 03/17/2018

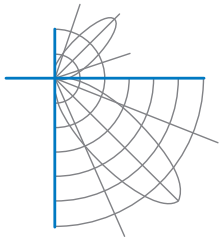


Test Report Number: LLIA000954-007B

Catalog Number: 3-354-120 Ellipse LG

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.

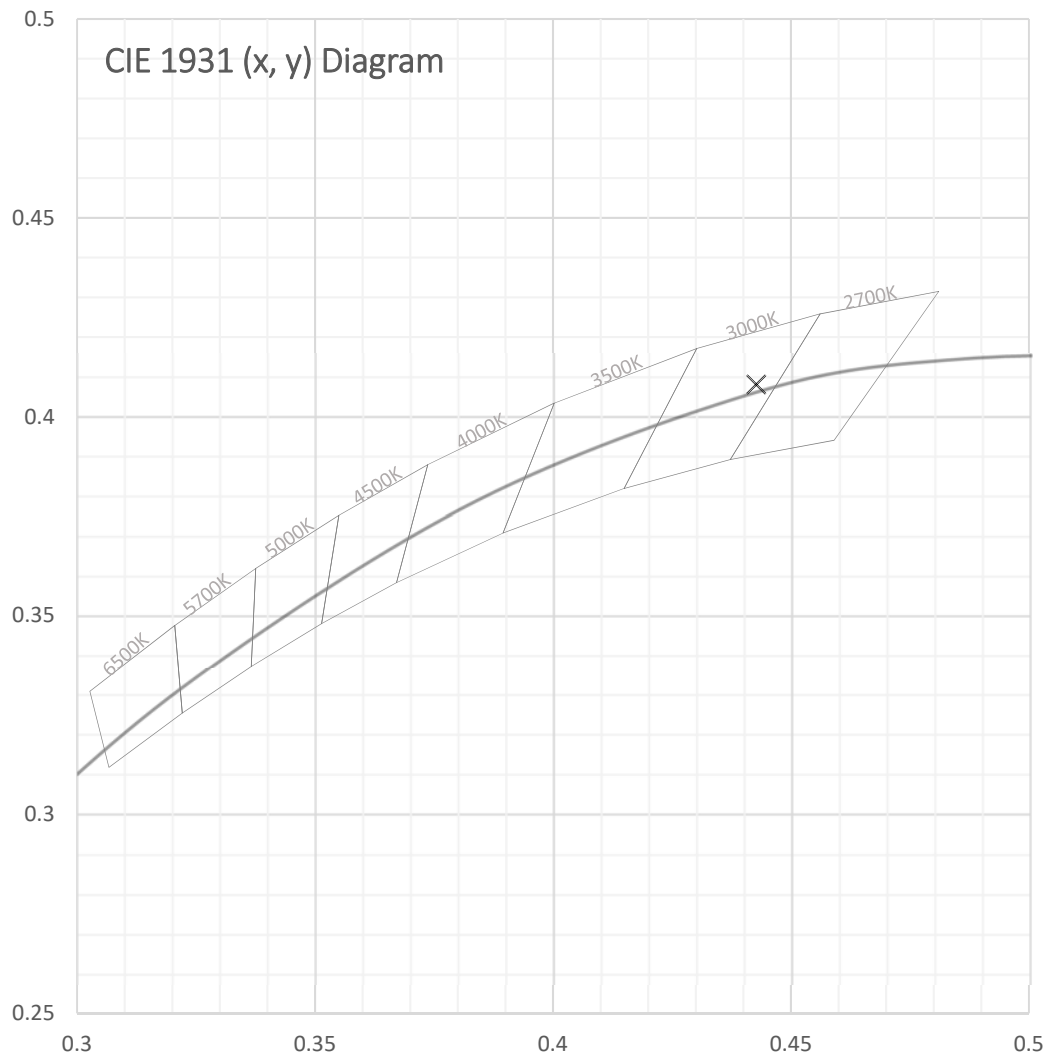




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Spectral Data

Total Radiant Flux	0.676 W
Total Luminous Flux	179.8 Lm
Chromaticity CIE 1931 (x, y)	(0.4427, 0.4081)
Chromaticity CIE 1976 (u', v')	(0.2526, 0.5238)
Correlated Color Temperature (CCT)	2937 K
Color Rendering Index (Ra)	96
R1	97
R2	97
R3	95
R4	97
R5	96
R6	95
R7	98
R8	93
R9	82
R10	91
R11	97
R12	82
R13	97
R14	96
TM-30: Rf	93
TM-30: Rg	100
Distance from Planckian Locus (Duv)	0.0008
Scotopic/Photopic Ratio *	1.391

Electrical Data

Voltage	120.0 Vac
Current	0.0587 A
Power	6.56 W
Frequency	59.97 Hz
Power Factor	0.931
Current THD	9.9 %



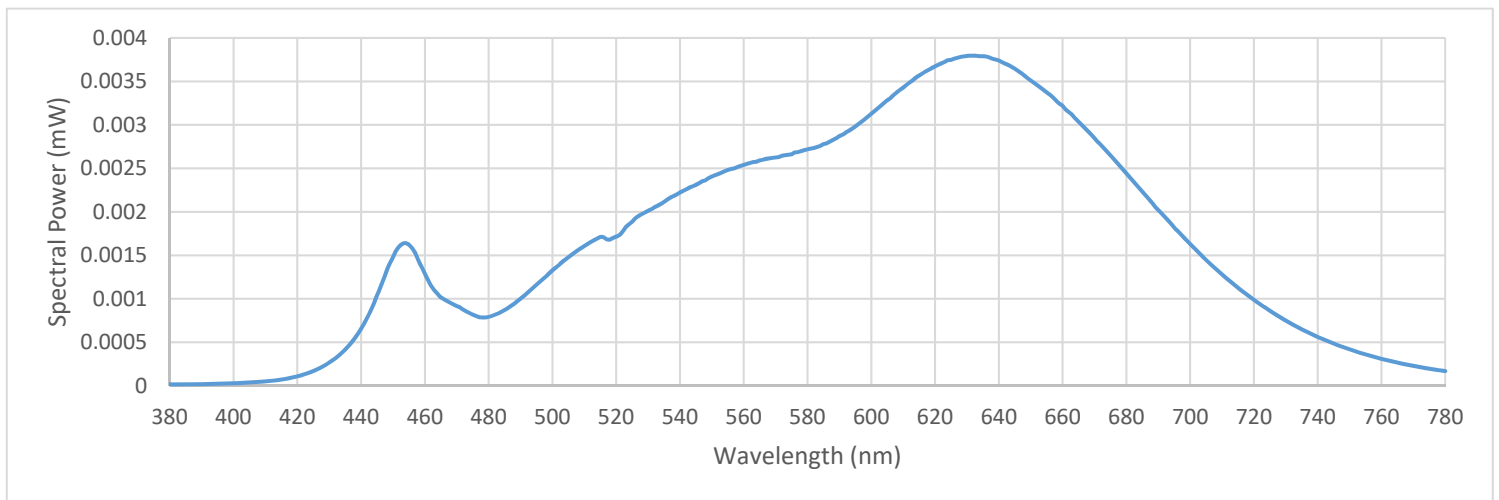
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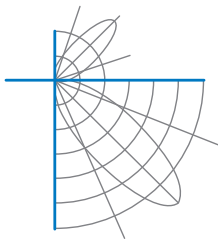
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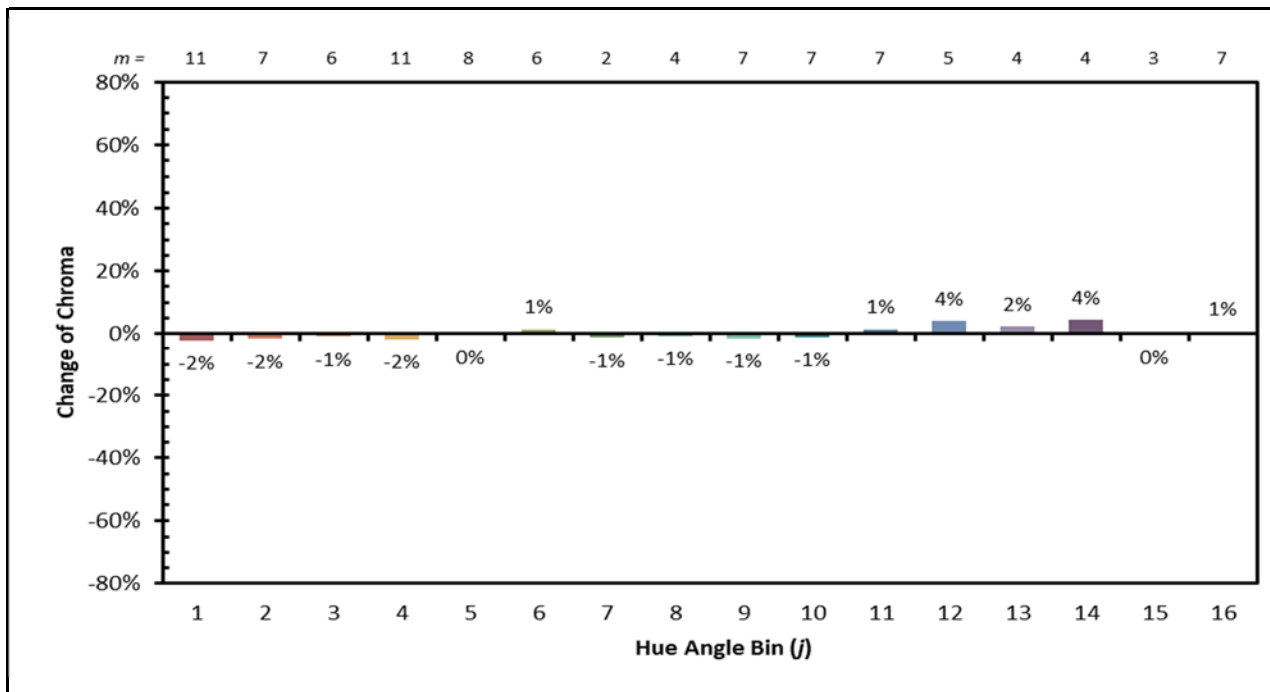
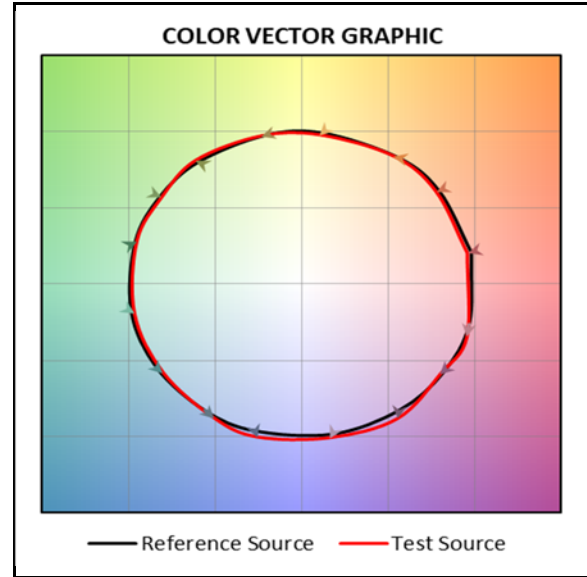
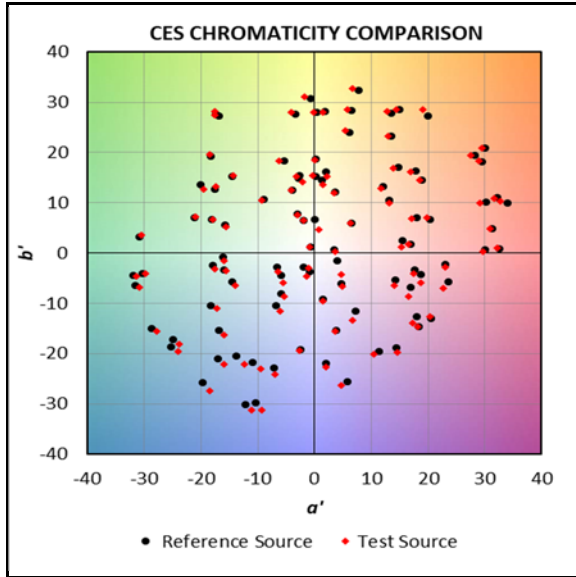
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.000016	480	0.000792	580	0.002718	680	0.002443
385	0.000016	485	0.000872	585	0.002779	685	0.002236
390	0.000019	490	0.001002	590	0.002871	690	0.002024
395	0.000023	495	0.001159	595	0.002981	695	0.001819
400	0.000029	500	0.001329	600	0.003129	700	0.001634
405	0.000037	505	0.001478	605	0.003283	705	0.001447
410	0.000050	510	0.001607	610	0.003427	710	0.001278
415	0.000072	515	0.001710	615	0.003568	715	0.001128
420	0.000108	520	0.001715	620	0.003674	720	0.000988
425	0.000168	525	0.001887	625	0.003748	725	0.000862
430	0.000268	530	0.002014	630	0.003793	730	0.000752
435	0.000418	535	0.002113	635	0.003789	735	0.000650
440	0.000654	540	0.002223	640	0.003741	740	0.000561
445	0.001042	545	0.002311	645	0.003647	745	0.000485
450	0.001481	550	0.002407	650	0.003512	750	0.000417
455	0.001622	555	0.002481	655	0.003374	755	0.000359
460	0.001292	560	0.002540	660	0.003219	760	0.000311
465	0.001016	565	0.002592	665	0.003038	765	0.000267
470	0.000915	570	0.002626	670	0.002846	770	0.000229
475	0.000818	575	0.002662	675	0.002652	775	0.000197
						780	0.000169





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: 25.0 °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.