

Report of Test

LLIA000824-057A

Catalog Number: 3-528-24 Magneta Sconce
 Wall mounted, spun aluminum housing, aluminum
 LED mounting plate, translucent white plastic enclosure.
 36 white LEDs, one Harvard Engineering LER7-284x17-930-36S-I LED board
 One L.T.F. DA12W350C1834D010-0000 dimmable LED driver
 120.0Vac, 60.00Hz, 0.1284A, 15.19W, 0.986PF, 9.2%THD(i)



Performance Summary

Total Light Output	735 lm
Luminaire Power	15.2 W
Luminous Efficacy	48.4 lm/W

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



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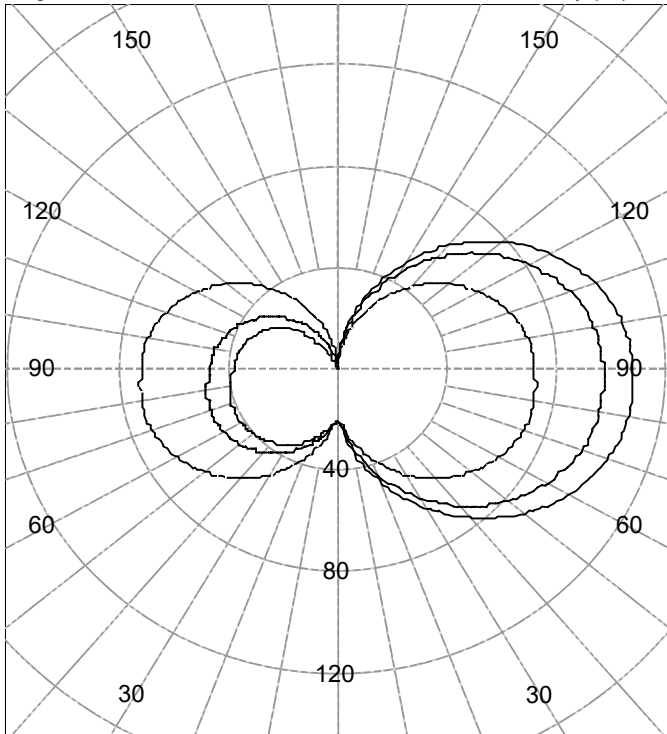
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Legend: C0/C180-Solid, C45/C225-Dashed, C90/C270-Grey (cd)



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

AVERAGE LUMINANCE (cd/m²)

Gamma	C0	C45	C90
45.0	6179	5649	4460
55.0	6411	5833	4524
65.0	6617	5997	4583
75.0	6804	6148	4638
85.0	6977	6291	4692

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	20	20	20	20	20	
5.0	26	26	25	25	24	2
10.0	33	33	32	30	29	
15.0	41	40	39	36	34	10
20.0	48	48	45	42	38	
25.0	56	55	52	48	43	20
30.0	63	62	58	53	48	
35.0	70	69	65	59	52	33
40.0	77	75	70	64	56	
45.0	83	81	76	68	60	47
50.0	89	87	81	72	63	
55.0	94	91	85	76	66	60
60.0	98	96	89	79	68	
65.0	101	99	92	82	70	70
70.0	104	102	94	84	72	
75.0	106	104	96	85	72	77
80.0	107	105	97	85	73	
85.0	107	105	97	85	72	79
90.0	107	105	96	85	72	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	33	N / A	4.4
0-40	66	N / A	8.9
0-60	172	N / A	23.4
0-90	398	N / A	54.1
40-90	332	N / A	45.2
60-90	226	N / A	30.7
90-180	337	N / A	45.9
0-180	735	N / A	100.0

Total Light Output = 735 lm

Signed:

Authorized Signatory

Date of test 12-Sep-2017

Date of report 14-Sep-2017



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	20	20	20	20	20
2.5	22	22	22	22	21
5.0	26	26	25	25	24
7.5	29	29	28	27	26
10.0	33	33	32	30	29
12.5	37	37	35	33	31
15.0	41	40	39	36	34
17.5	45	44	42	39	36
20.0	48	48	45	42	38
22.5	52	51	49	45	41
25.0	56	55	52	48	43
27.5	60	58	55	51	46
30.0	63	62	58	53	48
32.5	67	65	62	56	50
35.0	70	69	65	59	52
37.5	73	72	67	61	54
40.0	77	75	70	64	56
42.5	80	78	73	66	58
45.0	83	81	76	68	60
47.5	86	84	78	70	62
50.0	89	87	81	72	63
52.5	91	89	83	74	65
55.0	94	91	85	76	66
57.5	96	94	87	78	67
60.0	98	96	89	79	68
62.5	100	97	91	81	69
65.0	101	99	92	82	70
67.5	103	101	93	83	71
70.0	104	102	94	84	72
72.5	105	103	95	84	72
75.0	106	104	96	85	72
77.5	107	104	97	85	73
80.0	107	105	97	85	73
82.5	107	105	97	86	73
85.0	107	105	97	85	72
87.5	107	105	97	85	72
90.0	107	105	96	85	72



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	107	105	96	85	72
92.5	107	105	96	85	72
95.0	107	104	96	84	71
97.5	106	103	96	84	71
100.0	105	103	95	83	70
102.5	104	102	94	82	70
105.0	103	100	93	81	69
107.5	101	99	91	80	68
110.0	99	97	90	79	66
112.5	97	95	88	77	65
115.0	95	93	86	75	64
117.5	93	91	84	74	62
120.0	90	88	81	71	60
122.5	87	85	79	69	58
125.0	84	82	76	67	56
127.5	81	79	73	64	54
130.0	78	76	70	62	52
132.5	74	73	67	59	50
135.0	71	69	64	56	47
137.5	67	66	61	53	45
140.0	63	62	57	50	42
142.5	59	58	54	47	40
145.0	55	54	50	44	37
147.5	51	50	47	41	34
150.0	47	46	43	38	31
152.5	43	42	39	34	29
155.0	39	38	35	31	26
157.5	35	34	32	28	23
160.0	31	30	28	25	20
162.5	26	26	24	21	18
165.0	22	22	21	18	15
167.5	18	18	17	15	12
170.0	14	14	13	12	9
172.5	10	10	10	8	7
175.0	6	6	5	5	4
177.5	0	0	0	0	0
180.0	0	0	0	0	0



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Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	20	20	20	20	20
2.5	21	21	21	21	21
5.0	24	23	23	22	22
7.5	26	25	24	24	24
10.0	29	27	26	25	25
12.5	31	29	27	27	26
15.0	34	31	29	28	28
17.5	36	33	31	29	29
20.0	38	35	32	31	30
22.5	41	37	34	32	31
25.0	43	39	35	33	32
27.5	46	41	37	34	33
30.0	48	42	38	35	34
32.5	50	44	39	36	35
35.0	52	46	40	37	36
37.5	54	47	42	38	37
40.0	56	49	43	39	38
42.5	58	50	44	40	38
45.0	60	52	45	40	39
47.5	62	53	45	41	39
50.0	63	54	46	42	40
52.5	65	55	47	42	40
55.0	66	56	48	42	41
57.5	67	57	48	43	41
60.0	68	58	48	43	41
62.5	69	58	49	43	41
65.0	70	59	49	43	41
67.5	71	59	49	43	41
70.0	72	59	49	43	41
72.5	72	60	49	43	41
75.0	72	60	49	42	41
77.5	73	60	49	42	40
80.0	73	60	48	42	40
82.5	73	59	48	41	39
85.0	72	59	47	41	39
87.5	72	58	47	40	38
90.0	72	58	46	40	38



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Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	72	58	46	40	38
92.5	72	58	46	39	38
95.0	71	58	46	39	37
97.5	71	57	46	39	37
100.0	70	57	45	38	37
102.5	70	56	45	38	36
105.0	69	55	44	37	36
107.5	68	54	43	36	35
110.0	66	53	42	35	34
112.5	65	52	41	35	33
115.0	64	51	40	34	33
117.5	62	49	39	33	32
120.0	60	48	38	32	31
122.5	58	46	36	30	30
125.0	56	45	35	29	28
127.5	54	43	33	28	27
130.0	52	41	32	26	26
132.5	50	39	30	25	24
135.0	47	37	28	23	22
137.5	45	35	27	21	20
140.0	42	33	25	20	17
142.5	40	30	23	18	15
145.0	37	28	21	16	12
147.5	34	26	19	14	10
150.0	31	24	17	12	7
152.5	29	21	15	10	5
155.0	26	19	14	8	3
157.5	23	17	12	7	2
160.0	20	15	10	5	1
162.5	18	12	8	4	1
165.0	15	10	6	3	0
167.5	12	8	4	2	0
170.0	9	6	3	1	0
172.5	7	5	2	1	0
175.0	4	3	1	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0



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Coefficients Of Utilization - Zonal Cavity Method

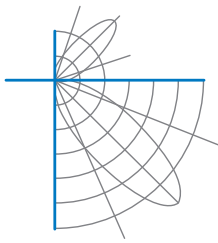
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	93	87	81	75	86	80	74	70	67	63	59	55	52	49	44	42	40	34
2	83	73	64	57	76	67	59	53	56	50	45	45	41	37	36	32	29	24
3	74	62	53	45	68	57	48	42	47	41	35	38	33	29	30	26	23	18
4	67	54	44	37	61	49	41	34	41	34	28	33	28	23	26	22	18	14
5	61	47	37	30	56	43	35	28	36	29	23	29	24	19	23	18	15	11
6	56	42	32	26	51	38	30	24	32	25	20	26	20	16	20	16	12	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	23	17	13	19	14	10	15	11	8	6
10	41	28	20	14	38	26	18	13	21	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	0.6	18.85	19.26
8.0	0.3	25.14	25.68
10.0	0.2	31.42	32.10
12.0	0.1	37.70	38.52
14.0	0.1	43.99	44.94
16.0	0.1	50.27	51.36



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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

LLIA000824-057B

Integrating Sphere Report

Catalog Number: 3-528-24 Magneta Sconce

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LED mounting plate, translucent white plastic enclosure.

36 white LEDs, one Harvard Engineering LER7-284x17-930-36S-I LED board

One L.T.F. DA12W350C1834D010-0000 dimmable LED driver



Performance Summary

Voltage	120.0 Vac
Current	0.1282 A
Power	15.15 W
Frequency	60.00 Hz
Power Factor	0.985
Current THD	9.4 %
Total Luminous Flux	730.5 lm
Efficacy	48.2 lm/W
Chromaticity (x,y)	(0.4469, 0.4059)
(u',v')	(0.2562, 0.5236)
Duv	-0.0005
CCT	2854 K
CRI (Ra)	91
R9	56

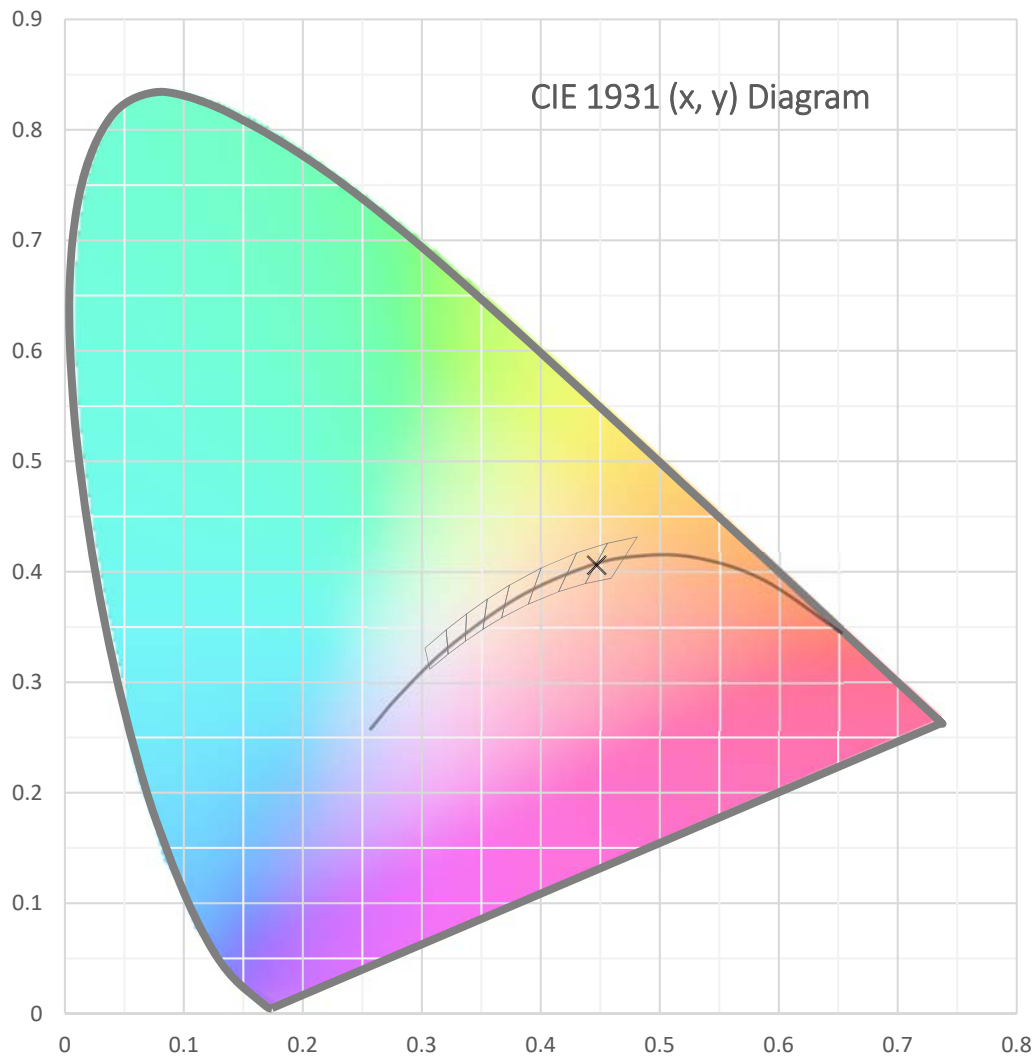
Prepared For:
Oxygen Lighting
201 Railhead Road
Fort Worth, TX 76106, USA

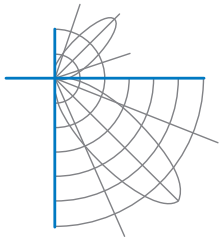
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Report date: 09/13/2017

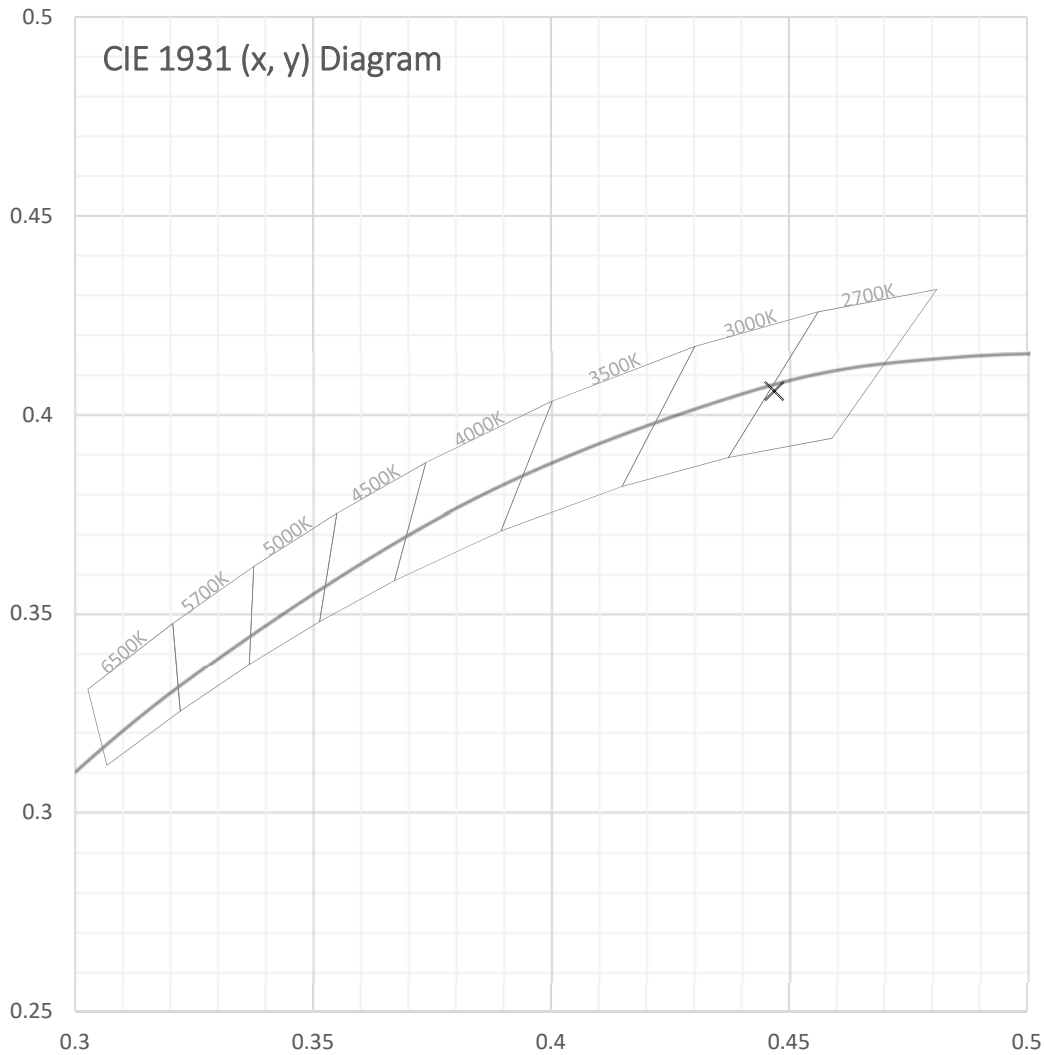


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Spectral Data

Total Radiant Flux	2.589 W
Total Luminous Flux	730.5 Lm
Chromaticity CIE 1931 (x, y)	(0.4469, 0.4059)
Chromaticity CIE 1976 (u', v')	(0.2562, 0.5236)
Correlated Color Temperature (CCT)	2854 K
Color Rendering Index (Ra)	91
R1	91
R2	95
R3	97
R4	91
R5	91
R6	94
R7	92
R8	80
R9	56
R10	88
R11	91
R12	81
R13	92
R14	98
Distance from Planckian Locus (Duv)	-0.0005
Scotopic/Photopic Ratio *	1.333

Electrical Data

Voltage	120.0 Vac
Current	0.1282 A
Power	15.15 W
Frequency	60.00 Hz
Power Factor	0.985
Current THD	9.4 %



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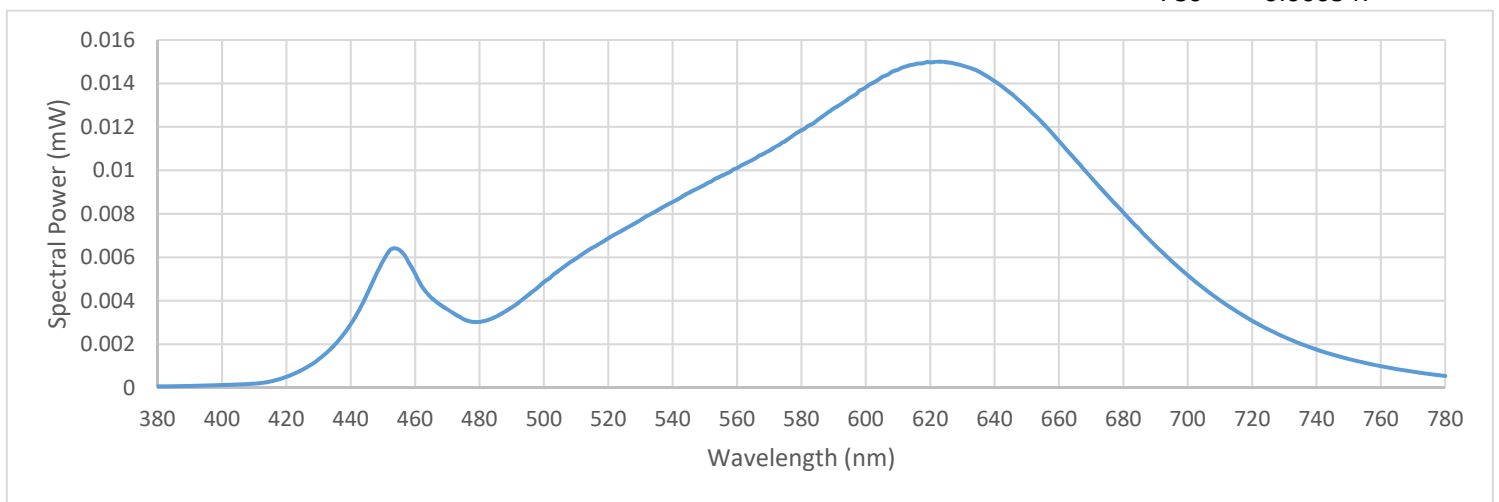
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Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.000066	480	0.003026	580	0.011836	680	0.008056
385	0.000070	485	0.003261	585	0.012320	685	0.007292
390	0.000085	490	0.003699	590	0.012850	690	0.006536
395	0.000102	495	0.004244	595	0.013332	695	0.005818
400	0.000128	500	0.004859	600	0.013817	700	0.005183
405	0.000154	505	0.005429	605	0.014291	705	0.004580
410	0.000188	510	0.005944	610	0.014629	710	0.004021
415	0.000286	515	0.006444	615	0.014869	715	0.003535
420	0.000506	520	0.006876	620	0.014970	720	0.003081
425	0.000833	525	0.007289	625	0.014969	725	0.002684
430	0.001311	530	0.007714	630	0.014820	730	0.002337
435	0.001978	535	0.008137	635	0.014554	735	0.002026
440	0.002927	540	0.008540	640	0.014106	740	0.001753
445	0.004283	545	0.008964	645	0.013544	745	0.001527
450	0.005834	550	0.009339	650	0.012889	750	0.001323
455	0.006356	555	0.009735	655	0.012157	755	0.001145
460	0.005254	560	0.010102	660	0.011365	760	0.000998
465	0.004139	565	0.010485	665	0.010509	765	0.000858
470	0.003606	570	0.010901	670	0.009664	770	0.000738
475	0.003157	575	0.011341	675	0.008855	775	0.000635
						780	0.000547





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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: 24.5 °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

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.

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