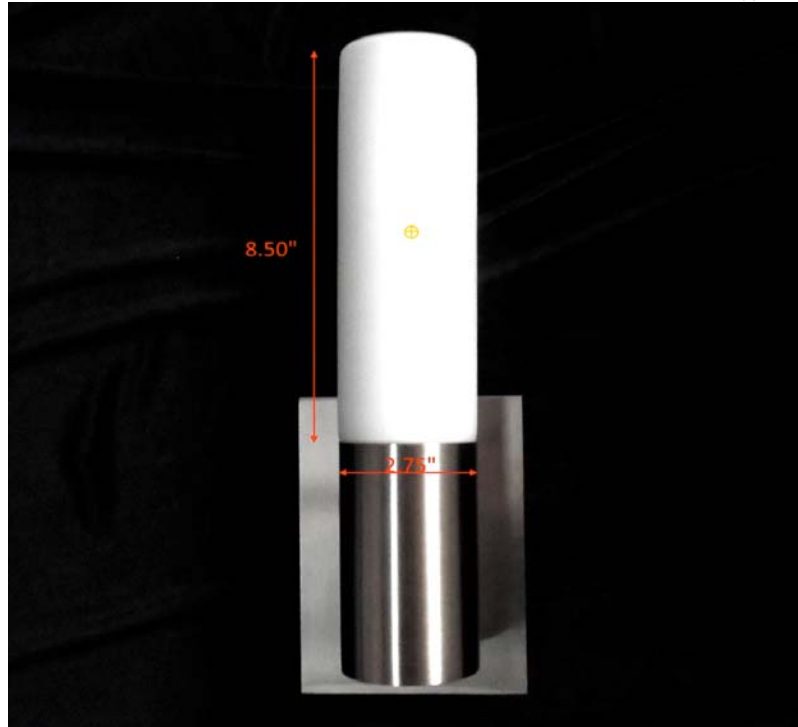




Report of Test

LLIA000824-032A

Catalog Number: 3-528-124 Magneta Sconce
 Wall mounted, spun aluminum housing, aluminum
 LED mounting plate, translucent white glass 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, 0.1283A, 15.17W, 0.986PF, 9.3%THD(i)



Performance Summary

Total Light Output	690 lm
Luminaire Power	15.2 W
Luminous Efficacy	45.4 lm/W

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



Test Report No. LLIA000824-032A

Catalog Number: 3-528-124 Magneta Sconce

Wall mounted, spun aluminum housing, aluminum

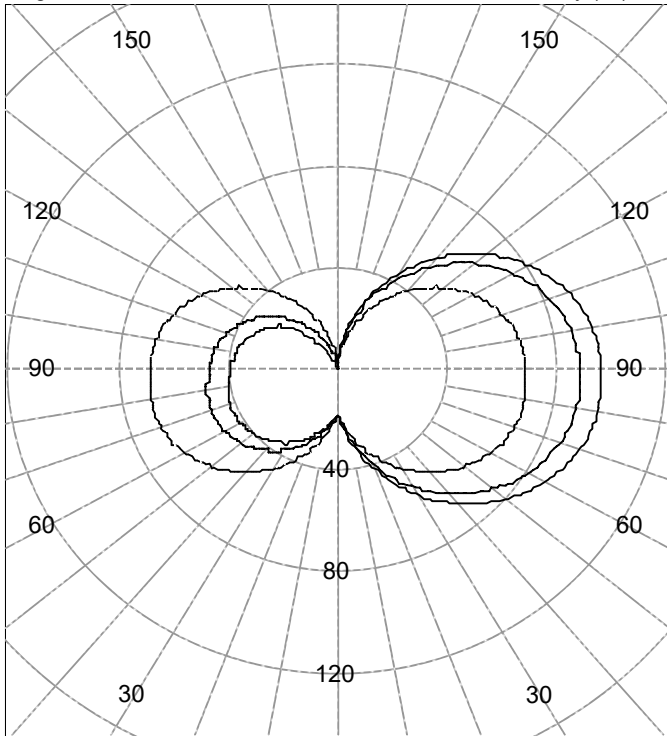
LED mounting plate, translucent white glass enclosure.

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, 0.1283A, 15.17W, 0.986PF, 9.3%THD(i)

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	5568	5159	4231
55.0	5762	5319	4297
65.0	5931	5462	4352
75.0	6089	5592	4409
85.0	6241	5719	4463

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	18.6	18.6	18.6	18.6	18.6	
5.0	23.1	23.0	22.7	22.3	21.8	2
10.0	29.9	29.6	28.9	27.8	26.5	
15.0	36.8	36.4	35.1	33.4	31.4	9
20.0	43.8	43.1	41.4	38.9	36.1	
25.0	50.6	49.7	47.5	44.4	40.7	19
30.0	57.0	56.1	53.4	49.6	45.1	
35.0	63.3	62.2	59.0	54.6	49.3	31
40.0	69.2	67.9	64.3	59.2	53.2	
45.0	74.7	73.3	69.2	63.5	56.8	44
50.0	79.7	78.1	73.7	67.4	60.0	
55.0	84.1	82.4	77.6	70.8	62.7	56
60.0	87.9	86.1	81.0	73.6	65.0	
65.0	91.0	89.1	83.8	75.9	66.8	66
70.0	93.4	91.5	85.8	77.6	68.1	
75.0	95.0	93.1	87.3	78.8	68.8	72
80.0	96.0	94.0	88.0	79.4	69.1	
85.0	96.1	94.2	88.1	79.2	68.8	74
90.0	95.9	93.9	87.8	78.8	68.3	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	30	N / A	4.4
0-40	61	N / A	8.9
0-60	161	N / A	23.3
0-90	373	N / A	54.1
40-90	312	N / A	45.2
60-90	212	N / A	30.7
90-180	317	N / A	45.9
0-180	690	N / A	100.0

Total Light Output = 690 lm

Signed:

Authorized Signatory

Date of test 12-Sep-2017
Date of report 14-Sep-2017



Test Report No. LLIA000824-032A

Catalog Number: 3-528-124 Magneta Sconce

Wall mounted, spun aluminum housing, aluminum

LED mounting plate, translucent white glass 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, 0.1283A, 15.17W, 0.986PF, 9.3%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	18.6	18.6	18.6	18.6	18.6
2.5	20.2	20.1	20.0	19.9	19.7
5.0	23.1	23.0	22.7	22.3	21.8
7.5	26.5	26.3	25.7	25.0	24.1
10.0	29.9	29.6	28.9	27.8	26.5
12.5	33.4	33.0	32.0	30.6	29.0
15.0	36.8	36.4	35.1	33.4	31.4
17.5	40.3	39.8	38.3	36.2	33.7
20.0	43.8	43.1	41.4	38.9	36.1
22.5	47.1	46.4	44.4	41.6	38.4
25.0	50.6	49.7	47.5	44.4	40.7
27.5	53.8	52.9	50.5	47.0	43.0
30.0	57.0	56.1	53.4	49.6	45.1
32.5	60.3	59.2	56.2	52.1	47.3
35.0	63.3	62.2	59.0	54.6	49.3
37.5	66.3	65.1	61.7	56.9	51.3
40.0	69.2	67.9	64.3	59.2	53.2
42.5	72.0	70.6	66.8	61.4	55.0
45.0	74.7	73.3	69.2	63.5	56.8
47.5	77.2	75.8	71.5	65.5	58.4
50.0	79.7	78.1	73.7	67.4	60.0
52.5	82.0	80.4	75.7	69.2	61.4
55.0	84.1	82.4	77.6	70.8	62.7
57.5	86.1	84.3	79.4	72.3	63.9
60.0	87.9	86.1	81.0	73.6	65.0
62.5	89.5	87.7	82.4	74.8	65.9
65.0	91.0	89.1	83.8	75.9	66.8
67.5	92.3	90.4	84.9	76.9	67.5
70.0	93.4	91.5	85.8	77.6	68.1
72.5	94.3	92.4	86.6	78.3	68.5
75.0	95.0	93.1	87.3	78.8	68.8
77.5	95.6	93.7	87.7	79.1	69.0
80.0	96.0	94.0	88.0	79.4	69.1
82.5	96.1	94.2	88.2	79.3	69.0
85.0	96.1	94.2	88.1	79.2	68.8
87.5	96.0	94.0	87.9	79.0	68.5
90.0	95.9	93.9	87.8	78.8	68.3



Test Report No. LLIA000824-032A

Catalog Number: 3-528-124 Magneta Sconce

Wall mounted, spun aluminum housing, aluminum

LED mounting plate, translucent white glass 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, 0.1283A, 15.17W, 0.986PF, 9.3%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	95.9	93.9	87.8	78.8	68.3
92.5	95.7	93.9	87.7	78.7	68.2
95.0	95.4	93.5	87.4	78.5	67.9
97.5	94.8	93.0	86.9	78.0	67.6
100.0	94.1	92.2	86.2	77.4	67.0
102.5	93.2	91.3	85.4	76.6	66.4
105.0	92.0	90.2	84.4	75.7	65.5
107.5	90.7	88.9	83.1	74.6	64.5
110.0	89.1	87.4	81.7	73.3	63.4
112.5	87.3	85.7	80.1	71.8	62.1
115.0	85.4	83.8	78.3	70.3	60.7
117.5	83.3	81.7	76.4	68.5	59.2
120.0	81.0	79.4	74.3	66.6	57.5
122.5	78.5	77.0	72.0	64.6	55.8
125.0	75.9	74.5	69.6	62.5	53.9
127.5	73.1	71.7	67.1	60.2	51.9
130.0	70.2	68.9	64.3	57.8	49.8
132.5	67.1	65.8	61.5	55.2	47.6
135.0	63.9	62.7	58.6	52.6	45.3
137.5	60.5	59.4	55.6	49.9	42.9
140.0	57.1	56.1	52.4	47.1	40.4
142.5	53.6	52.6	49.2	44.2	37.9
145.0	49.9	49.1	45.9	41.3	35.3
147.5	46.2	45.5	42.6	38.2	32.7
150.0	42.5	41.8	39.1	35.2	30.1
152.5	38.7	38.1	35.7	32.1	27.4
155.0	34.9	34.5	32.3	29.0	24.6
157.5	31.0	30.7	28.8	25.9	22.0
160.0	27.2	27.0	25.4	22.8	19.2
162.5	23.3	23.3	22.0	19.7	16.5
165.0	19.6	19.6	18.6	16.6	13.8
167.5	15.9	16.0	15.2	13.5	11.2
170.0	12.3	12.4	11.8	10.5	8.6
172.5	8.6	8.8	8.4	7.4	6.0
175.0	4.7	4.6	4.5	4.0	3.2
177.5	0.0	0.0	0.0	0.1	0.0
180.0	0.0	0.0	0.0	0.0	0.0



Test Report No. LLIA000824-032A

Catalog Number: 3-528-124 Magneta Sconce

Wall mounted, spun aluminum housing, aluminum

LED mounting plate, translucent white glass 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, 0.1283A, 15.17W, 0.986PF, 9.3%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	18.6	18.6	18.6	18.6	18.6
2.5	19.7	19.4	19.3	19.2	19.2
5.0	21.8	21.2	20.8	20.5	20.4
7.5	24.1	23.2	22.4	22.0	21.8
10.0	26.5	25.2	24.1	23.5	23.3
12.5	29.0	27.2	25.8	25.0	24.7
15.0	31.4	29.3	27.5	26.4	26.0
17.5	33.7	31.2	29.2	27.9	27.4
20.0	36.1	33.2	30.8	29.2	28.7
22.5	38.4	35.1	32.3	30.6	30.0
25.0	40.7	37.0	33.9	31.9	31.2
27.5	43.0	38.9	35.3	33.1	32.4
30.0	45.1	40.6	36.7	34.3	33.5
32.5	47.3	42.4	38.1	35.4	34.5
35.0	49.3	44.0	39.4	36.5	35.5
37.5	51.3	45.6	40.6	37.5	36.4
40.0	53.2	47.1	41.8	38.4	37.2
42.5	55.0	48.6	42.9	39.3	38.0
45.0	56.8	49.9	43.9	40.1	38.7
47.5	58.4	51.2	44.8	40.8	39.3
50.0	60.0	52.3	45.7	41.4	39.9
52.5	61.4	53.4	46.4	41.9	40.4
55.0	62.7	54.4	47.1	42.4	40.8
57.5	63.9	55.2	47.6	42.8	41.1
60.0	65.0	56.0	48.0	43.1	41.4
62.5	65.9	56.6	48.4	43.3	41.5
65.0	66.8	57.1	48.7	43.4	41.6
67.5	67.5	57.6	48.8	43.4	41.6
70.0	68.1	57.9	48.9	43.3	41.5
72.5	68.5	58.1	48.9	43.2	41.4
75.0	68.8	58.2	48.8	43.0	41.2
77.5	69.0	58.2	48.6	42.6	40.9
80.0	69.1	58.0	48.3	42.3	40.5
82.5	69.0	57.8	47.9	41.8	40.1
85.0	68.8	57.5	47.5	41.3	39.6
87.5	68.5	57.1	47.0	40.7	39.1
90.0	68.3	56.8	46.7	40.4	38.8



Test Report No. LLIA000824-032A

Catalog Number: 3-528-124 Magneta Sconce

Wall mounted, spun aluminum housing, aluminum

LED mounting plate, translucent white glass 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, 0.1283A, 15.17W, 0.986PF, 9.3%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	68.3	56.8	46.7	40.4	38.8
92.5	68.2	56.7	46.5	40.2	38.6
95.0	67.9	56.4	46.2	39.9	38.4
97.5	67.6	56.0	45.8	39.5	38.0
100.0	67.0	55.5	45.3	39.0	37.5
102.5	66.4	54.8	44.7	38.4	37.1
105.0	65.5	54.1	44.0	37.7	36.5
107.5	64.5	53.2	43.2	37.0	35.8
110.0	63.4	52.2	42.3	36.1	35.0
112.5	62.1	51.0	41.3	35.2	34.1
115.0	60.7	49.7	40.2	34.2	33.2
117.5	59.2	48.3	39.0	33.2	32.3
120.0	57.5	46.9	37.8	32.0	31.2
122.5	55.8	45.3	36.5	30.8	30.1
125.0	53.9	43.7	35.0	29.6	28.9
127.5	51.9	41.9	33.4	28.3	27.6
130.0	49.8	40.1	31.8	26.8	26.1
132.5	47.6	38.1	30.2	25.2	24.4
135.0	45.3	36.1	28.4	23.4	22.1
137.5	42.9	34.1	26.6	21.6	19.7
140.0	40.4	31.9	24.8	19.7	17.2
142.5	37.9	29.8	22.9	17.7	14.7
145.0	35.3	27.6	21.0	15.7	12.1
147.5	32.7	25.3	19.1	13.7	9.7
150.0	30.1	23.1	17.2	11.8	7.3
152.5	27.4	20.8	15.2	9.9	5.1
155.0	24.6	18.5	13.3	8.1	3.0
157.5	22.0	16.3	11.4	6.5	1.5
160.0	19.2	14.0	9.5	5.0	1.1
162.5	16.5	11.8	7.7	3.8	0.9
165.0	13.8	9.6	5.9	2.8	0.4
167.5	11.2	7.4	4.1	1.8	0.2
170.0	8.6	5.6	2.7	1.1	0.2
172.5	6.0	4.1	1.9	0.6	0.0
175.0	3.2	2.3	1.2	0.4	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: LLIA000824-032A

Catalog Number: 3-528-124 Magneta Sconce

Wall mounted, spun aluminum housing, aluminum

LED mounting plate, translucent white glass enclosure.

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

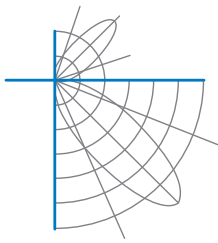
One L.T.F. DA12W350C1834D010-0000 dimmable LED driver

120.0Vac, 60.00Hz, 0.1283A, 15.17W, 0.986PF, 9.3%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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	93	87	80	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	23	19	23	18	15	11
6	56	42	32	25	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	47	34	25	19	43	31	23	17	26	19	15	21	16	12	16	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.

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	0.5	18.99	19.47
8.0	0.3	25.32	25.96
10.0	0.2	31.65	32.46
12.0	0.1	37.98	38.95
14.0	0.1	44.31	45.44
16.0	0.1	50.64	51.93



Test Report No. LLIA000824-032A

Catalog Number: 3-528-124 Magneta Sconce

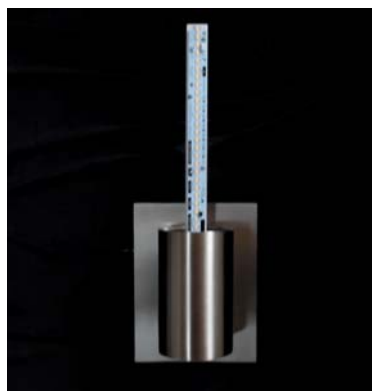
Wall mounted, spun aluminum housing, aluminum

LED mounting plate, translucent white glass 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, 0.1283A, 15.17W, 0.986PF, 9.3%THD(i)





Test Report No. LLIA000824-032A

Catalog Number: 3-528-124 Magneta Sconce

Wall mounted, spun aluminum housing, aluminum

LED mounting plate, translucent white glass 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, 0.1283A, 15.17W, 0.986PF, 9.3%THD(i)

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

LLIA000824-032B

Integrating Sphere Report

Catalog Number: 3-528-124 Magneta Sconce

Wall mounted, spun aluminum housing, aluminum

LED mounting plate, translucent white glass enclosure.

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

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



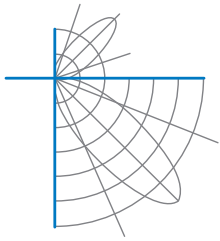
Performance Summary

Voltage	120.0 Vac
Current	0.1283 A
Power	15.18 W
Frequency	60.00 Hz
Power Factor	0.985
Current THD	9.4 %
Total Luminous Flux	677.9 lm
Efficacy	44.7 lm/W
Chromaticity (x,y)	(0.4382, 0.4021)
(u',v')	(0.2522, 0.5208)
Duv	-0.0010
CCT	2963 K
CRI (Ra)	91
R9	57

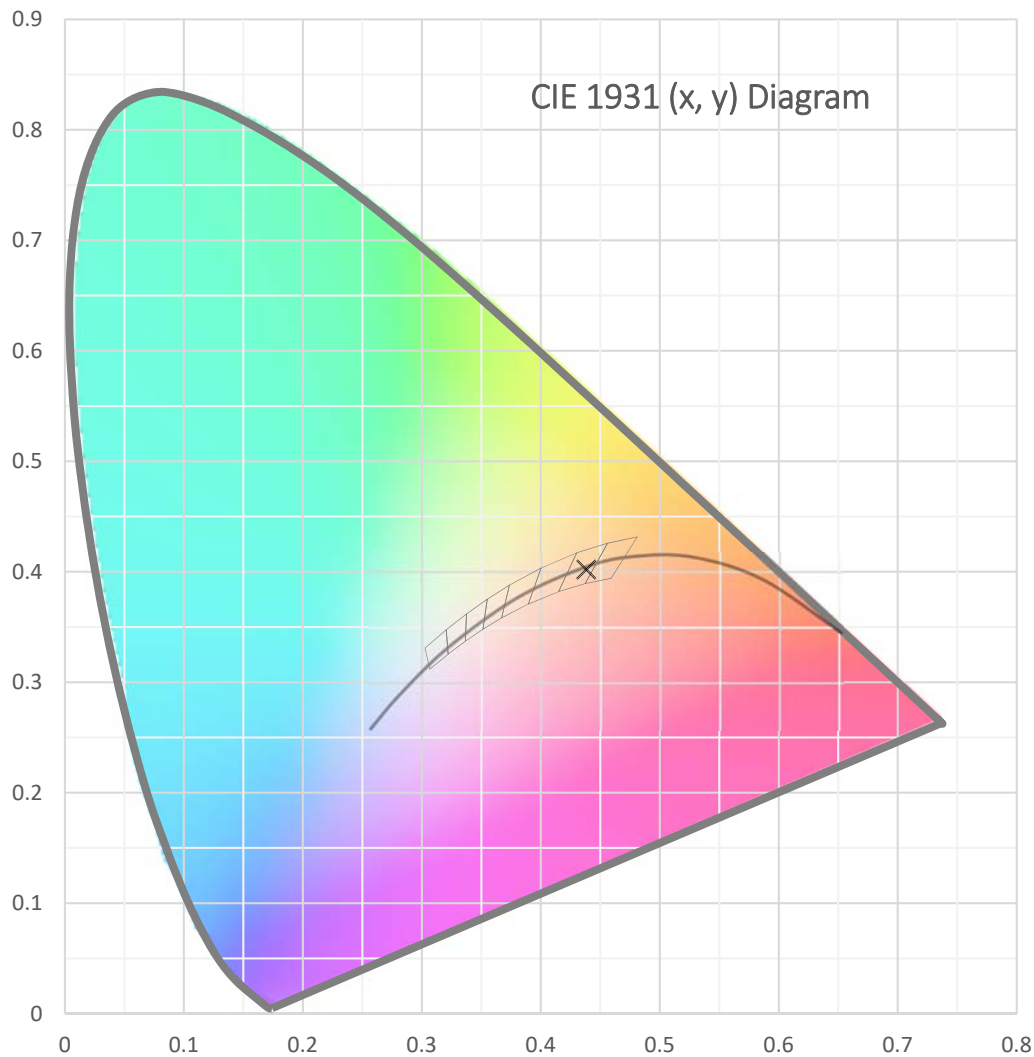
Prepared For:
Oxygen Lighting
201 Railhead Road
Fort Worth, TX 76106, USA

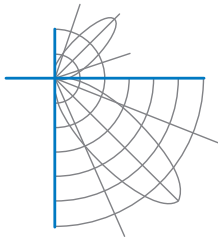
Test date: 09/12/2017

Report date: 09/13/2017

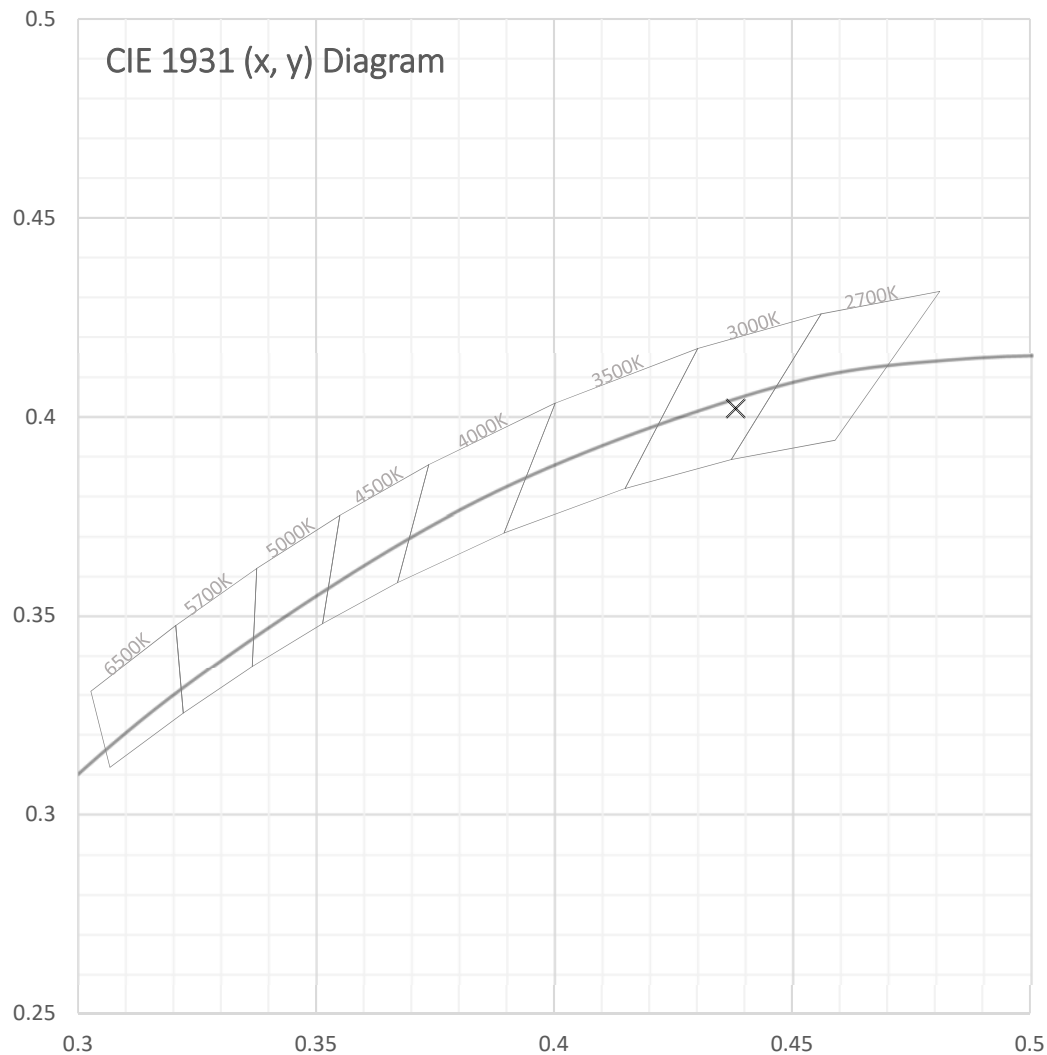


Test Report Number: LLIA000824-032B
Catalog Number: 3-528-124 Magneta Sconce
Wall mounted, spun aluminum housing, aluminum
LED mounting plate, translucent white glass enclosure.
36 white LEDs, one Harvard Engineering LER7-284x17-930-36S-I LED board
One L.T.F. DA12W350C1834D010-0000 dimmable LED driver





Test Report Number: LLIA000824-032B
Catalog Number: 3-528-124 Magneta Sconce
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Spectral Data

Total Radiant Flux	2.409 W
Total Luminous Flux	677.9 Lm
Chromaticity CIE 1931 (x, y)	(0.4382, 0.4021)
Chromaticity CIE 1976 (u', v')	(0.2522, 0.5208)
Correlated Color Temperature (CCT)	2963 K
Color Rendering Index (Ra)	91
R1	91
R2	95
R3	97
R4	91
R5	91
R6	93
R7	92
R8	81
R9	57
R10	87
R11	90
R12	80
R13	92
R14	98
Distance from Planckian Locus (Duv)	-0.0010
Scotopic/Photopic Ratio *	1.382

Electrical Data

Voltage	120.0 Vac
Current	0.1283 A
Power	15.18 W
Frequency	60.00 Hz
Power Factor	0.985
Current THD	9.4 %



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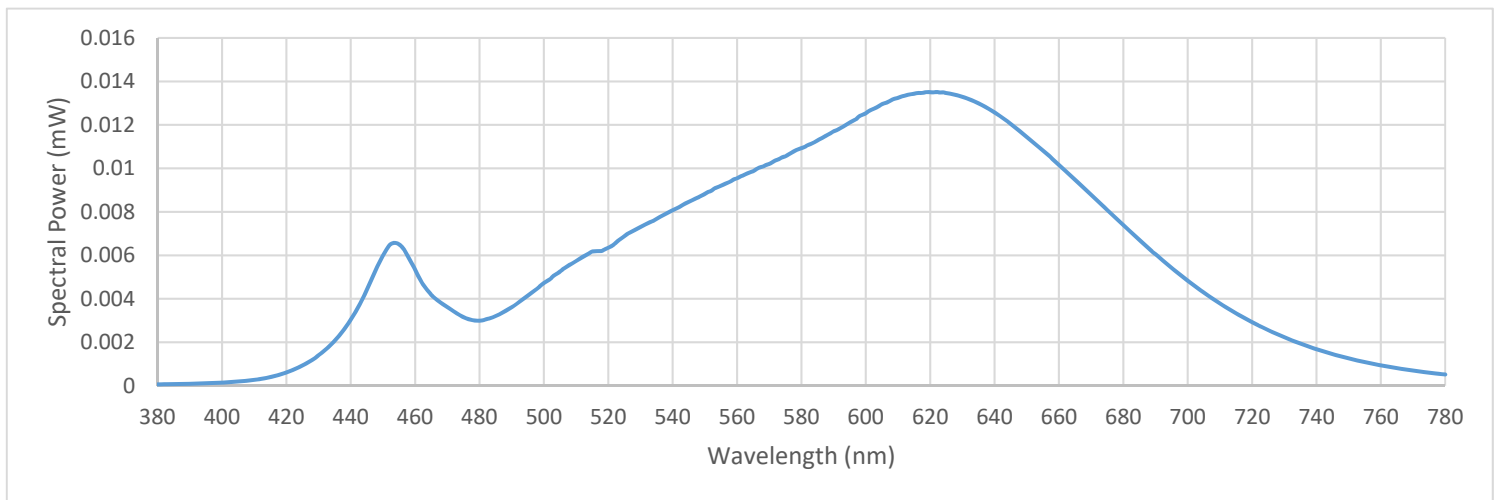
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Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.000068	480	0.002998	580	0.010930	680	0.007389
385	0.000074	485	0.003203	585	0.011287	685	0.006716
390	0.000092	490	0.003617	590	0.011703	690	0.006051
395	0.000112	495	0.004142	595	0.012107	695	0.005412
400	0.000144	500	0.004725	600	0.012535	700	0.004839
405	0.000192	505	0.005255	605	0.012949	705	0.004295
410	0.000271	510	0.005731	610	0.013243	710	0.003782
415	0.000399	515	0.006174	615	0.013433	715	0.003334
420	0.000618	520	0.006350	620	0.013503	720	0.002928
425	0.000935	525	0.006882	625	0.013464	725	0.002560
430	0.001409	530	0.007297	630	0.013284	730	0.002237
435	0.002075	535	0.007677	635	0.013005	735	0.001941
440	0.003041	540	0.008068	640	0.012571	740	0.001680
445	0.004419	545	0.008459	645	0.012037	745	0.001455
450	0.005999	550	0.008826	650	0.011435	750	0.001258
455	0.006511	555	0.009200	655	0.010812	755	0.001087
460	0.005352	560	0.009543	660	0.010166	760	0.000944
465	0.004185	565	0.009870	665	0.009470	765	0.000813
470	0.003618	570	0.010205	670	0.008781	770	0.000700
475	0.003150	575	0.010554	675	0.008086	775	0.000604
						780	0.000520





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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:	24.9 °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. 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.