



Report of Test

LLIA000824-030A

Catalog Number: 3-607-140 Magneta Pendant
Pendant mounted, formed steel canopy, spun aluminum housing, translucent white glass enclosure.
12 white LEDs, one Harvard Engineering LEDENG-163-930 LED board
One LTF DA6W150C2040LPD010-0014 dimming LED driver.
120.0Vac, 60.00Hz, 0.0589A, 6.59W, 0.932PF, 10.7%THD(i)



Performance Summary

Total Light Output	230 lm
Luminaire Power	6.59 W
Luminous Efficacy	34.9 lm/W

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

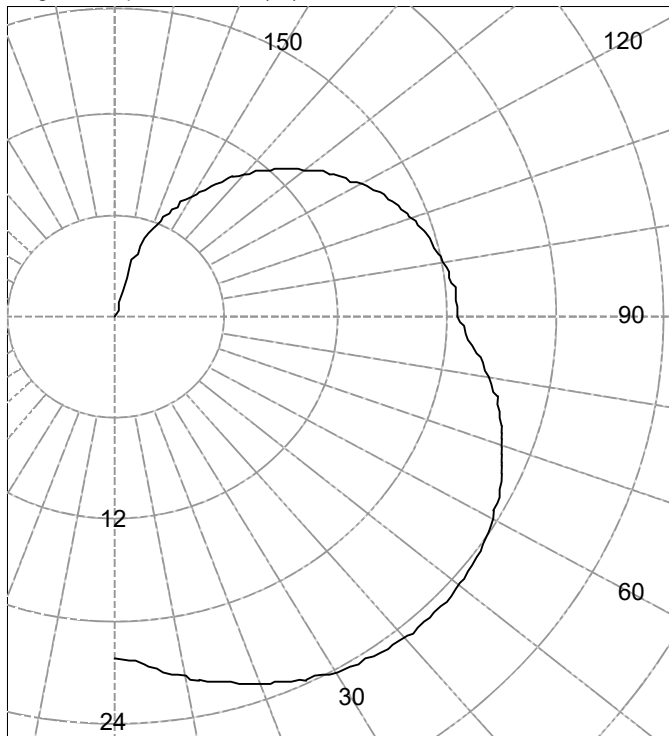


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Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	5473
55.0	5275
65.0	5108
75.0	4974
85.0	4853

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	20.2		90	18.7	
5	20.8	2	95	18.5	20
10	21.6		100	18.2	
15	22.4	6	105	17.7	19
20	23.1		110	17.1	
25	23.7	11	115	16.4	16
30	24.2		120	15.5	
35	24.5	15	125	14.5	13
40	24.6		130	13.4	
45	24.7	19	135	12.2	9
50	24.5		140	10.9	
55	24.2	22	145	9.6	6
60	23.8		150	8.2	
65	23.2	23	155	6.7	3
70	22.5		160	5.2	
75	21.6	23	165	3.0	1
80	20.7		170	0.0	
85	19.5	21	175	0.0	0
90	18.7		180	0.0	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	19	N / A	8.4
0-40	35	N / A	15.1
0-60	75	N / A	32.8
0-90	143	N / A	61.9
40-90	108	N / A	46.9
60-90	67	N / A	29.2
90-180	88	N / A	38.1
0-180	230	N / A	100.0

Total Light Output = 230 lm

Signed:

Authorized Signatory

Date of test 13-Sep-2017
Date of report 14-Sep-2017



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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	20.2		90.0	18.7	
2.5	20.4		92.5	18.6	
5.0	20.8	2	95.0	18.5	
7.5	21.2		97.5	18.3	20
10.0	21.6		100.0	18.2	
12.5	22.0		102.5	18.0	
15.0	22.4	6	105.0	17.7	
17.5	22.7		107.5	17.4	19
20.0	23.1		110.0	17.1	
22.5	23.4		112.5	16.8	
25.0	23.7	11	115.0	16.4	
27.5	23.9		117.5	16.0	16
30.0	24.2		120.0	15.5	
32.5	24.3		122.5	15.1	
35.0	24.5	15	125.0	14.5	
37.5	24.6		127.5	14.0	13
40.0	24.6		130.0	13.4	
42.5	24.7		132.5	12.8	
45.0	24.7	19	135.0	12.2	
47.5	24.6		137.5	11.6	9
50.0	24.5		140.0	10.9	
52.5	24.4		142.5	10.3	
55.0	24.2	22	145.0	9.6	
57.5	24.0		147.5	8.9	6
60.0	23.8		150.0	8.2	
62.5	23.5		152.5	7.4	
65.0	23.2	23	155.0	6.7	
67.5	22.8		157.5	6.0	3
70.0	22.5		160.0	5.2	
72.5	22.1		162.5	4.1	
75.0	21.6	23	165.0	3.0	
77.5	21.2		167.5	1.2	1
80.0	20.7		170.0	0.0	
82.5	20.1		172.5	0.0	
85.0	19.5	21	175.0	0.0	
87.5	19.0		177.5	0.0	0
90.0	18.7		180.0	0.0	



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Coefficients Of Utilization - Zonal Cavity Method

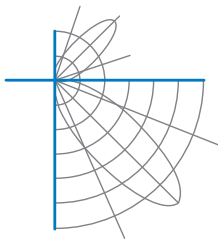
Effective Floor Cavity Reflectance 0.20

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	96	89	84	79	89	83	78	74	72	68	64	62	59	56	52	50	47	43
2	85	76	67	61	79	70	63	57	61	55	50	51	47	43	43	40	37	32
3	77	65	56	48	71	60	52	45	52	45	40	44	39	34	37	33	29	25
4	70	57	47	40	64	53	44	37	45	38	33	38	33	28	32	28	24	20
5	64	50	40	33	59	46	38	31	40	33	27	34	28	24	28	24	20	17
6	58	44	35	28	54	41	33	27	36	29	23	30	25	20	25	21	17	14
7	54	40	31	24	50	37	29	23	32	25	20	27	22	17	23	18	15	12
8	50	36	27	21	46	34	26	20	29	22	18	25	19	15	21	16	13	11
9	46	33	24	19	43	31	23	18	27	20	16	23	17	13	19	15	11	9
10	43	30	22	16	40	28	21	16	24	18	14	21	16	12	18	13	10	8

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	10.83	10.83
8.0	0.3	14.43	14.43
10.0	0.2	18.04	18.04
12.0	0.1	21.65	21.65
14.0	0.1	25.26	25.26
16.0	0.1	28.87	28.87



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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

LLIA000824-030B

Integrating Sphere Report

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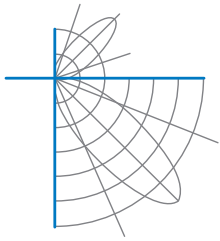
Performance Summary

Voltage	120.0 Vac
Current	0.0588 A
Power	6.59 W
Frequency	60.00 Hz
Power Factor	0.933
Current THD	10.8 %
Total Luminous Flux	233.3 lm
Efficacy	35.4 lm/W
Chromaticity (x,y)	(0.4388, 0.3993)
(u',v')	(0.2539, 0.5198)
Duv	-0.0021
CCT	2929 K
CRI (Ra)	97
R9	87

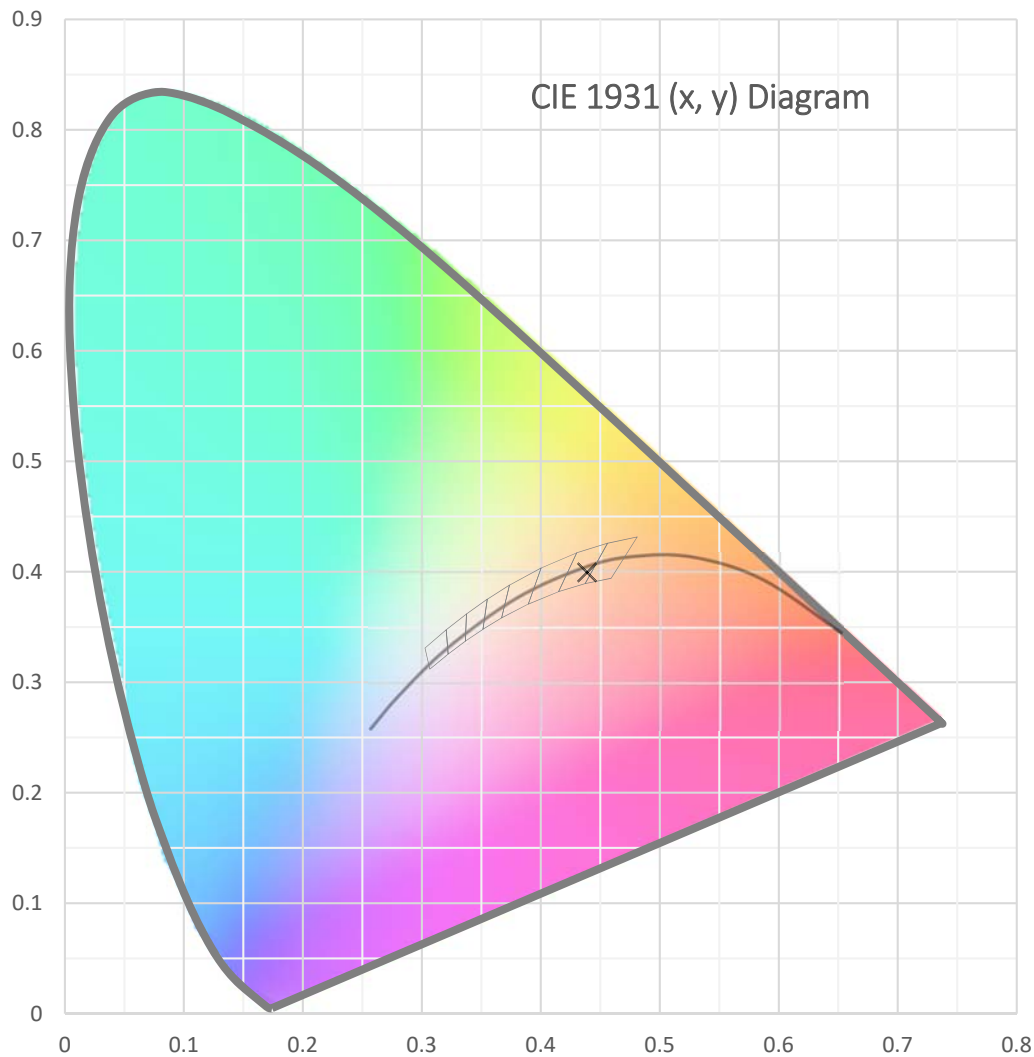
Prepared For:
Oxygen Lighting
201 Railhead Road
Fort Worth, TX 76106, USA

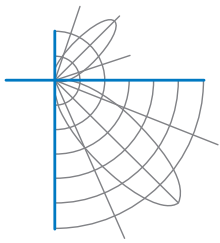
Test date: 09/13/2017

Report date: 09/14/2017

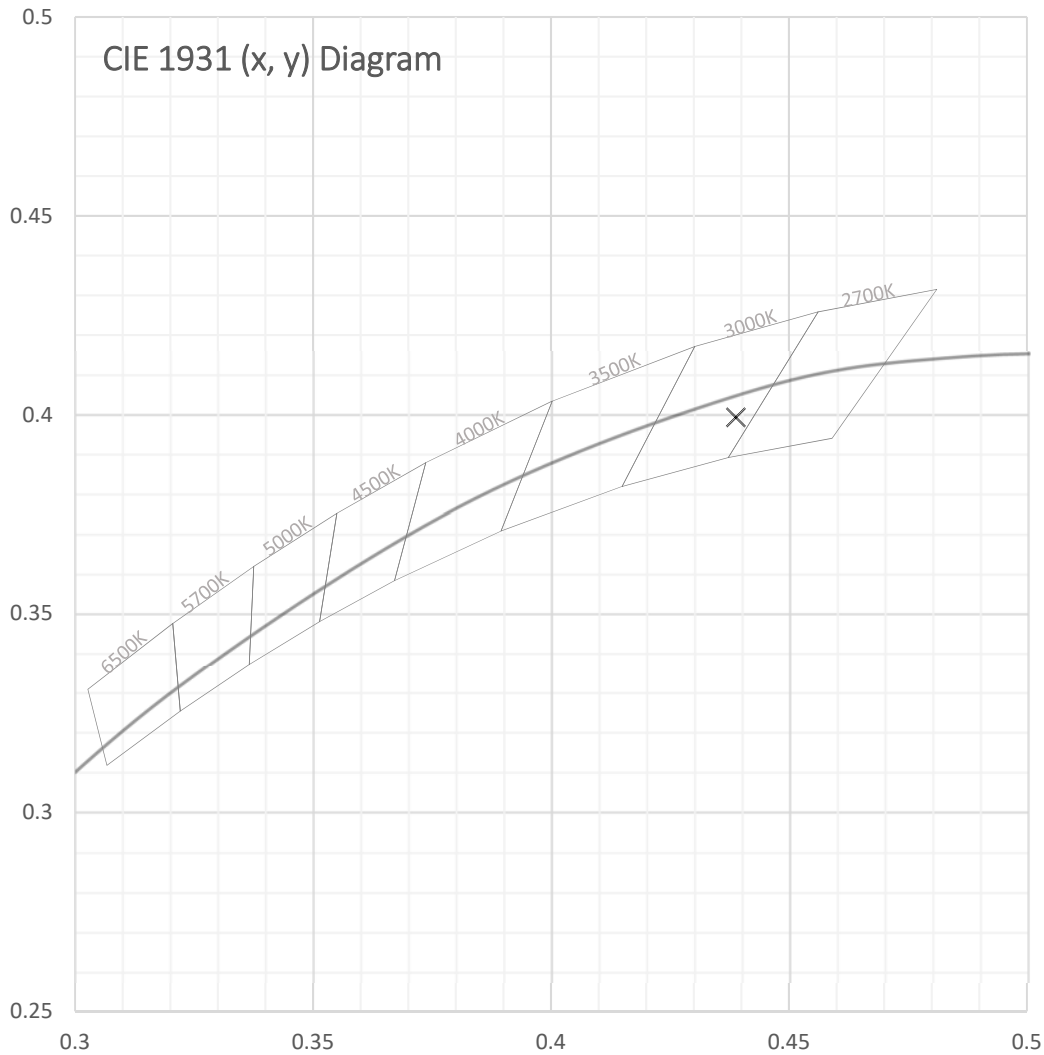


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Spectral Data

Total Radiant Flux	0.888 W
Total Luminous Flux	233.3 Lm
Chromaticity CIE 1931 (x, y)	(0.4388, 0.3993)
Chromaticity CIE 1976 (u', v')	(0.2539, 0.5198)
Correlated Color Temperature (CCT)	2929 K
Color Rendering Index (Ra)	97
R1	99
R2	98
R3	95
R4	97
R5	98
R6	97
R7	97
R8	94
R9	87
R10	94
R11	97
R12	85
R13	99
R14	96
Distance from Planckian Locus (Duv)	-0.0021
Scotopic/Photopic Ratio *	1.412

Electrical Data

Voltage	120.0 Vac
Current	0.0588 A
Power	6.59 W
Frequency	60.00 Hz
Power Factor	0.933
Current THD	10.8 %



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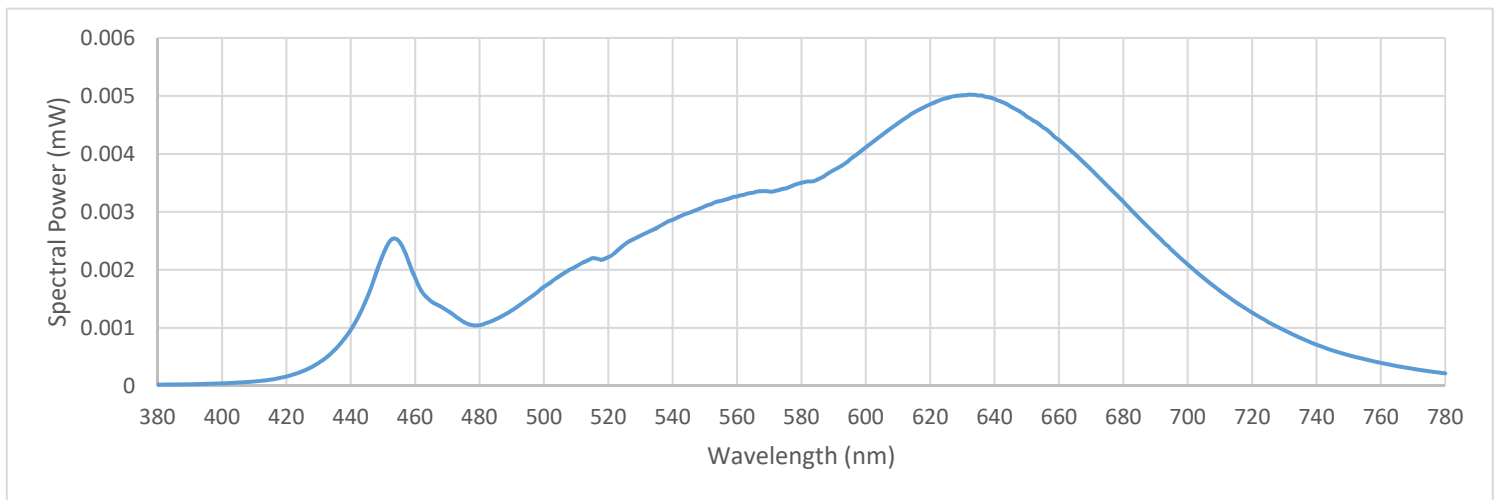
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Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.000020	480	0.001047	580	0.003500	680	0.003175
385	0.000022	485	0.001145	585	0.003558	685	0.002891
390	0.000026	490	0.001300	590	0.003722	690	0.002615
395	0.000032	495	0.001489	595	0.003899	695	0.002342
400	0.000042	500	0.001705	600	0.004107	700	0.002096
405	0.000054	505	0.001897	605	0.004328	705	0.001858
410	0.000073	510	0.002058	610	0.004526	710	0.001635
415	0.000104	515	0.002200	615	0.004712	715	0.001441
420	0.000160	520	0.002220	620	0.004857	720	0.001261
425	0.000251	525	0.002432	625	0.004959	725	0.001099
430	0.000395	530	0.002588	630	0.005010	730	0.000959
435	0.000619	535	0.002718	635	0.005006	735	0.000824
440	0.000965	540	0.002861	640	0.004947	740	0.000708
445	0.001512	545	0.002980	645	0.004815	745	0.000612
450	0.002262	550	0.003095	650	0.004644	750	0.000528
455	0.002492	555	0.003189	655	0.004460	755	0.000455
460	0.001863	560	0.003265	660	0.004241	760	0.000395
465	0.001455	565	0.003329	665	0.003995	765	0.000340
470	0.001301	570	0.003351	670	0.003725	770	0.000291
475	0.001102	575	0.003401	675	0.003454	775	0.000250
						780	0.000215





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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: 24.6 °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

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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