



Report of Test

LLIA000824-008A

Catalog Number: 3-587-224 Beacon Sconce

Wall mounted, formed steel housing, translucent white enclosure
in front of LEDs, translucent white outer enclosure.

24 white LEDs, one Harvard Engineering LEDENG-165-930 LED board
One L.T.F. DA12W350C1834D010-0014 Dimmable LED driver
120.0Vac, 60.00Hz, 0.0901A, 10.42W, 0.963PF, 10.2%THD(i)



Performance Summary

Total Light Output	441 lm
Luminaire Power	10.4 W
Luminous Efficacy	42.4 lm/W

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



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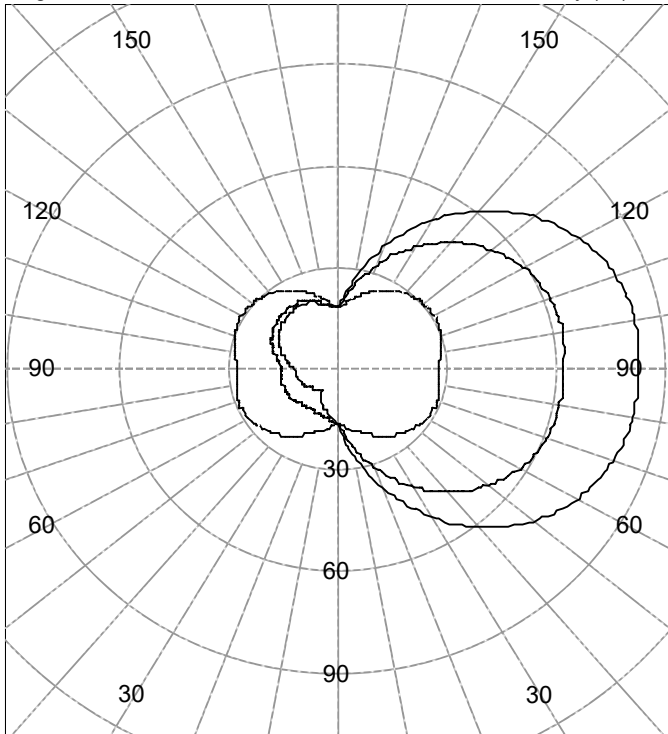
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Legend: C0/C180-Solid, C45/C225-Dashed, C90/C270-Grey (cd)



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

AVERAGE LUMINANCE (cd/m²)

Gamma	C0	C45	C90
45.0	1609	1189	1010
55.0	1688	1231	1064
65.0	1755	1268	1120
75.0	1821	1302	1170
85.0	1910	1351	1246

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	16.1	16.1	16.1	16.1	16.1	
5.0	20.8	20.4	19.4	18.1	17.0	2
10.0	26.5	25.6	23.4	20.8	18.2	
15.0	32.2	30.9	27.4	23.2	19.1	6
20.0	38.3	36.4	31.5	25.6	20.0	
25.0	44.4	41.9	35.7	28.3	21.4	11
30.0	50.3	47.3	39.8	31.0	22.8	
35.0	56.0	52.5	43.8	33.5	24.1	18
40.0	61.1	57.2	47.4	35.8	25.2	
45.0	65.7	61.4	50.6	37.8	26.3	25
50.0	69.7	65.2	53.5	39.6	27.2	
55.0	73.2	68.4	56.0	41.0	27.9	31
60.0	76.0	71.1	58.0	42.2	28.5	
65.0	78.3	73.1	59.5	42.9	28.7	37
70.0	79.9	74.6	60.5	43.4	28.7	
75.0	81.1	75.6	61.1	43.4	28.5	40
80.0	81.8	76.3	61.4	43.3	28.1	
85.0	82.3	76.7	61.6	43.2	27.7	41
90.0	82.1	76.6	61.5	43.0	27.5	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	19	N / A	4.3
0-40	37	N / A	8.4
0-60	93	N / A	21.2
0-90	211	N / A	47.9
40-90	174	N / A	39.5
60-90	118	N / A	26.7
90-180	230	N / A	52.1
0-180	441	N / A	100.0

Total Light Output = 441 lm

Signed:

Authorized Signatory

Date of test 21-Sep-2017

Date of report 21-Sep-2017



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	16.1	16.1	16.1	16.1	16.1
2.5	18.1	17.9	17.4	16.9	16.5
5.0	20.8	20.4	19.4	18.1	17.0
7.5	23.6	23.0	21.5	19.5	17.6
10.0	26.5	25.6	23.4	20.8	18.2
12.5	29.3	28.2	25.4	22.0	18.6
15.0	32.2	30.9	27.4	23.2	19.1
17.5	35.2	33.7	29.4	24.4	19.6
20.0	38.3	36.4	31.5	25.6	20.0
22.5	41.3	39.2	33.6	26.9	20.7
25.0	44.4	41.9	35.7	28.3	21.4
27.5	47.4	44.6	37.8	29.6	22.1
30.0	50.3	47.3	39.8	31.0	22.8
32.5	53.2	49.9	41.8	32.3	23.5
35.0	56.0	52.5	43.8	33.5	24.1
37.5	58.6	54.9	45.6	34.7	24.7
40.0	61.1	57.2	47.4	35.8	25.2
42.5	63.4	59.3	49.1	36.8	25.7
45.0	65.7	61.4	50.6	37.8	26.3
47.5	67.7	63.3	52.1	38.8	26.7
50.0	69.7	65.2	53.5	39.6	27.2
52.5	71.5	66.8	54.8	40.4	27.6
55.0	73.2	68.4	56.0	41.0	27.9
57.5	74.7	69.8	57.0	41.6	28.2
60.0	76.0	71.1	58.0	42.2	28.5
62.5	77.2	72.2	58.8	42.6	28.7
65.0	78.3	73.1	59.5	42.9	28.7
67.5	79.2	74.0	60.1	43.2	28.8
70.0	79.9	74.6	60.5	43.4	28.7
72.5	80.6	75.2	60.9	43.4	28.6
75.0	81.1	75.6	61.1	43.4	28.5
77.5	81.5	76.0	61.3	43.4	28.3
80.0	81.8	76.3	61.4	43.3	28.1
82.5	82.0	76.5	61.5	43.2	27.9
85.0	82.3	76.7	61.6	43.2	27.7
87.5	82.3	76.7	61.6	43.1	27.6
90.0	82.1	76.6	61.5	43.0	27.5



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	82.1	76.6	61.5	43.0	27.5
92.5	82.2	76.6	61.6	43.1	27.6
95.0	82.4	76.8	61.9	43.5	28.0
97.5	82.5	76.9	62.1	43.8	28.4
100.0	82.4	76.9	62.2	44.0	28.8
102.5	82.2	76.8	62.2	44.2	29.2
105.0	81.9	76.5	62.1	44.3	29.5
107.5	81.3	76.0	61.8	44.4	29.8
110.0	80.7	75.4	61.5	44.3	30.0
112.5	79.8	74.7	61.0	44.2	30.2
115.0	78.8	73.8	60.5	44.0	30.4
117.5	77.7	72.8	59.8	43.8	30.5
120.0	76.4	71.6	59.0	43.4	30.5
122.5	75.0	70.3	58.1	43.0	30.5
125.0	73.4	68.9	57.0	42.5	30.4
127.5	71.6	67.3	55.9	41.9	30.3
130.0	69.7	65.6	54.6	41.3	30.1
132.5	67.7	63.8	53.3	40.5	29.9
135.0	65.6	61.8	51.8	39.7	29.6
137.5	63.3	59.7	50.3	38.8	29.3
140.0	60.9	57.5	48.6	37.8	28.9
142.5	58.4	55.2	46.9	36.8	28.4
145.0	55.8	52.8	45.1	35.7	27.9
147.5	53.1	50.4	43.2	34.6	27.4
150.0	50.3	47.8	41.3	33.4	26.8
152.5	47.5	45.3	39.3	32.1	26.1
155.0	44.7	42.7	37.3	30.8	25.5
157.5	41.8	40.0	35.2	29.5	24.8
160.0	38.8	37.3	33.1	28.1	24.0
162.5	35.9	34.6	31.0	26.7	23.2
165.0	33.0	31.9	28.9	25.3	22.5
167.5	30.1	29.2	26.8	23.9	21.7
170.0	27.3	26.6	24.7	22.5	20.9
172.5	24.6	24.0	22.7	21.1	20.0
175.0	21.9	21.6	20.7	19.8	19.2
177.5	19.4	19.2	18.9	18.6	18.5
180.0	18.2	18.2	18.2	18.2	18.2



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Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	16.1	16.1	16.1	16.1	16.1
2.5	16.5	16.2	15.9	15.7	15.6
5.0	17.0	16.2	15.6	15.1	15.0
7.5	17.6	16.4	15.3	14.5	14.3
10.0	18.2	16.3	14.9	14.0	13.8
12.5	18.6	16.3	14.7	13.7	13.4
15.0	19.1	16.3	14.5	13.3	13.1
17.5	19.6	16.5	14.4	12.9	12.5
20.0	20.0	16.7	14.2	12.4	11.8
22.5	20.7	17.0	14.1	11.9	11.0
25.0	21.4	17.3	14.0	11.4	10.3
27.5	22.1	17.6	13.9	10.9	9.6
30.0	22.8	17.9	13.9	10.4	8.8
32.5	23.5	18.1	13.9	10.0	7.8
35.0	24.1	18.3	13.9	9.6	7.2
37.5	24.7	18.5	14.0	9.4	7.3
40.0	25.2	18.8	14.1	9.6	7.6
42.5	25.7	19.0	14.3	9.8	7.9
45.0	26.3	19.2	14.6	10.0	8.3
47.5	26.7	19.4	14.8	10.2	8.6
50.0	27.2	19.6	15.0	10.4	9.0
52.5	27.6	19.9	15.2	10.5	9.3
55.0	27.9	20.1	15.4	10.7	9.6
57.5	28.2	20.3	15.5	10.8	9.9
60.0	28.5	20.4	15.6	10.9	10.2
62.5	28.7	20.5	15.7	11.0	10.4
65.0	28.7	20.6	15.8	11.0	10.6
67.5	28.8	20.6	15.8	11.1	10.7
70.0	28.7	20.6	15.8	11.0	10.9
72.5	28.6	20.5	15.7	11.0	11.0
75.0	28.5	20.4	15.7	11.0	11.1
77.5	28.3	20.2	15.6	11.0	11.3
80.0	28.1	20.1	15.5	11.0	11.4
82.5	27.9	19.9	15.4	11.0	11.5
85.0	27.7	19.8	15.3	11.0	11.6
87.5	27.6	19.7	15.3	11.2	11.8
90.0	27.5	19.7	15.2	11.4	12.0



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Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	27.5	19.7	15.2	11.4	12.0
92.5	27.6	19.9	15.4	11.9	12.3
95.0	28.0	20.3	15.9	12.7	13.0
97.5	28.4	20.8	16.4	13.4	13.6
100.0	28.8	21.3	16.9	14.0	14.3
102.5	29.2	21.7	17.5	14.7	14.9
105.0	29.5	22.2	18.0	15.5	15.5
107.5	29.8	22.6	18.5	16.0	16.1
110.0	30.0	22.9	19.0	16.6	16.6
112.5	30.2	23.3	19.4	17.1	17.2
115.0	30.4	23.6	19.9	17.7	17.7
117.5	30.5	23.9	20.3	18.1	18.2
120.0	30.5	24.2	20.6	18.5	18.6
122.5	30.5	24.3	21.0	19.0	18.9
125.0	30.4	24.5	21.3	19.4	19.3
127.5	30.3	24.6	21.5	19.8	19.7
130.0	30.1	24.8	21.7	20.1	20.0
132.5	29.9	24.8	22.0	20.3	20.3
135.0	29.6	24.8	22.1	20.6	20.5
137.5	29.3	24.8	22.3	20.7	20.6
140.0	28.9	24.6	22.4	20.9	20.8
142.5	28.4	24.5	22.4	21.1	21.0
145.0	27.9	24.1	22.4	21.3	21.1
147.5	27.4	23.8	22.3	21.4	21.3
150.0	26.8	23.6	22.2	21.4	21.4
152.5	26.1	23.2	22.1	21.3	21.3
155.0	25.5	22.9	21.9	21.3	21.2
157.5	24.8	22.5	21.4	21.1	21.1
160.0	24.0	22.1	20.9	20.9	21.0
162.5	23.2	21.6	20.6	20.4	20.7
165.0	22.5	21.1	20.3	19.9	19.9
167.5	21.7	20.6	20.0	19.7	19.6
170.0	20.9	20.1	19.6	19.4	19.4
172.5	20.0	19.6	19.2	19.1	19.0
175.0	19.2	19.0	18.8	18.7	18.7
177.5	18.5	18.5	18.4	18.4	18.4
180.0	18.2	18.2	18.2	18.2	18.2



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Coefficients Of Utilization - Zonal Cavity Method

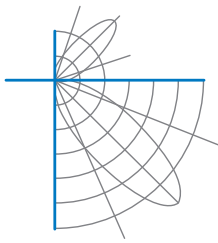
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	93	86	81	75	84	79	74	69	65	61	58	52	49	47	40	38	36	31
2	82	73	65	58	75	66	59	53	54	49	44	43	39	35	33	30	27	22
3	74	62	53	46	67	57	49	42	46	40	35	37	32	28	28	24	21	17
4	67	54	45	38	61	49	41	35	40	34	29	32	27	23	24	20	17	13
5	61	48	38	31	55	43	35	29	35	29	24	28	23	19	21	17	14	10
6	56	42	33	27	51	39	30	24	32	25	20	25	20	16	19	15	12	9
7	52	38	29	23	47	35	27	21	28	22	17	22	17	14	17	13	10	7
8	48	34	26	20	43	31	23	18	26	19	15	20	15	12	15	12	9	6
9	44	31	23	17	40	28	21	16	23	17	13	19	14	10	14	10	8	5
10	41	28	20	15	37	26	19	14	21	15	12	17	12	9	13	9	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	0.4	13.92	13.31
8.0	0.3	18.55	17.75
10.0	0.2	23.19	22.19
12.0	0.1	27.83	26.62
14.0	0.1	32.47	31.06
16.0	0.1	37.11	35.50



Test Report No. LLIA000824-008A

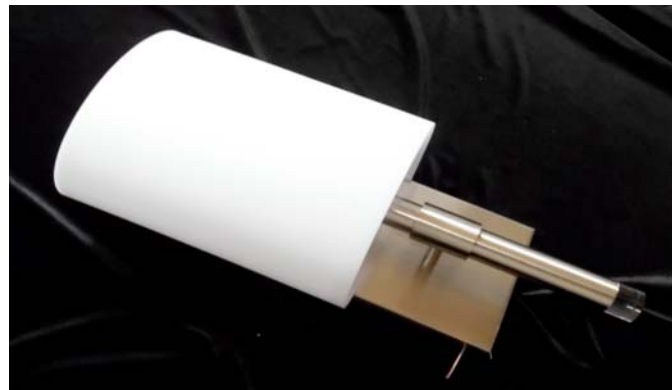
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Test Distance 9.5 m
Test Temperature 25.0 °C

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

LLIA000824-008B

Integrating Sphere Report

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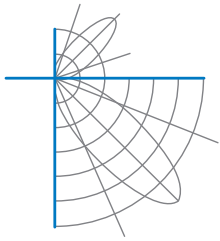


Performance Summary

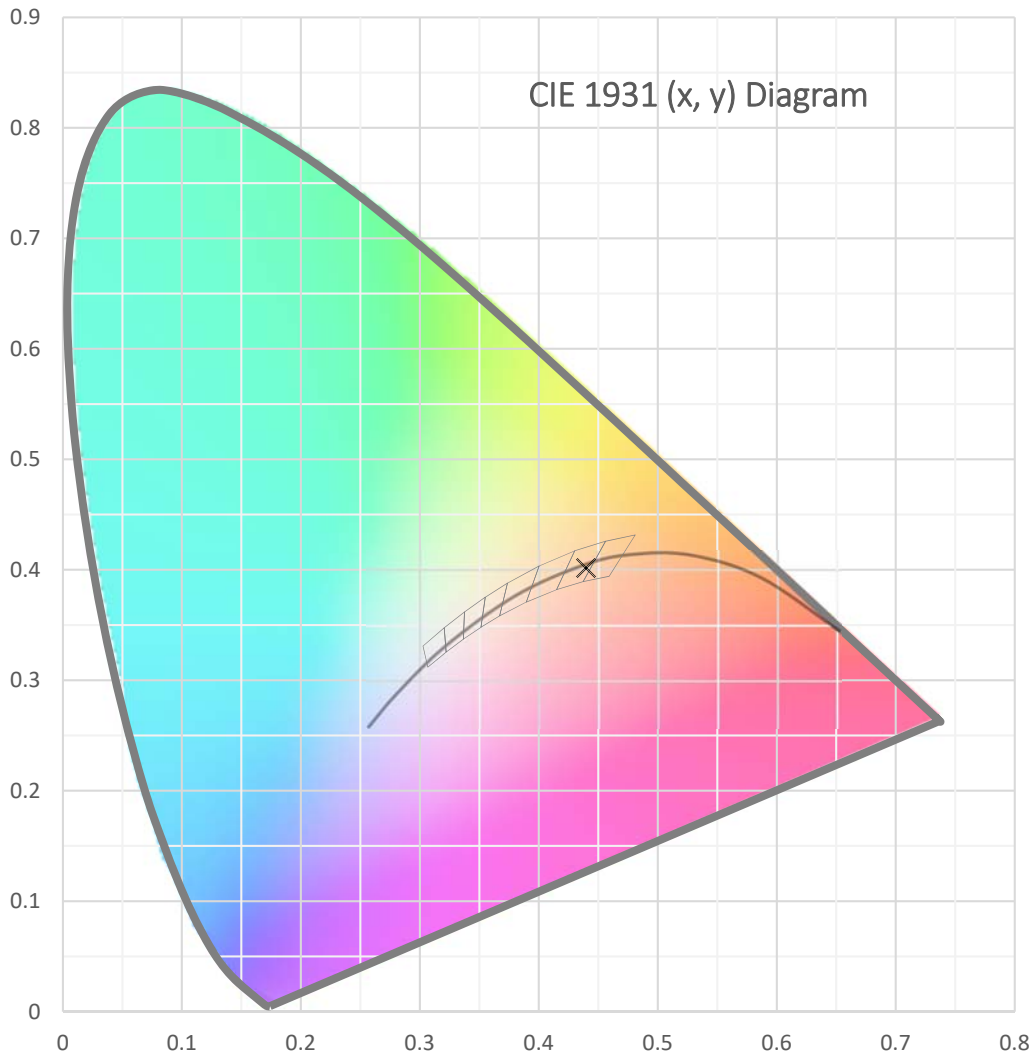
Voltage	120.0 Vac
Current	0.0902 A
Power	10.41 W
Frequency	60.00 Hz
Power Factor	0.962
Current THD	10.2 %
Total Luminous Flux	454.4 lm
Efficacy	43.7 lm/W
Chromaticity (x,y)	(0.4397, 0.4016)
(u',v')	(0.2534, 0.5208)
Duv	-0.0014
CCT	2933 K
CRI (Ra)	96
R9	76

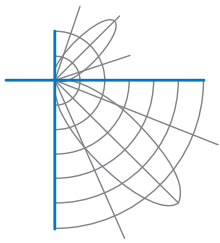
Prepared For:
Oxygen Lighting
201 Railhead Road
Fort Worth, TX 76106, USA

Test date: 09/20/2017
Report date: 09/21/2017

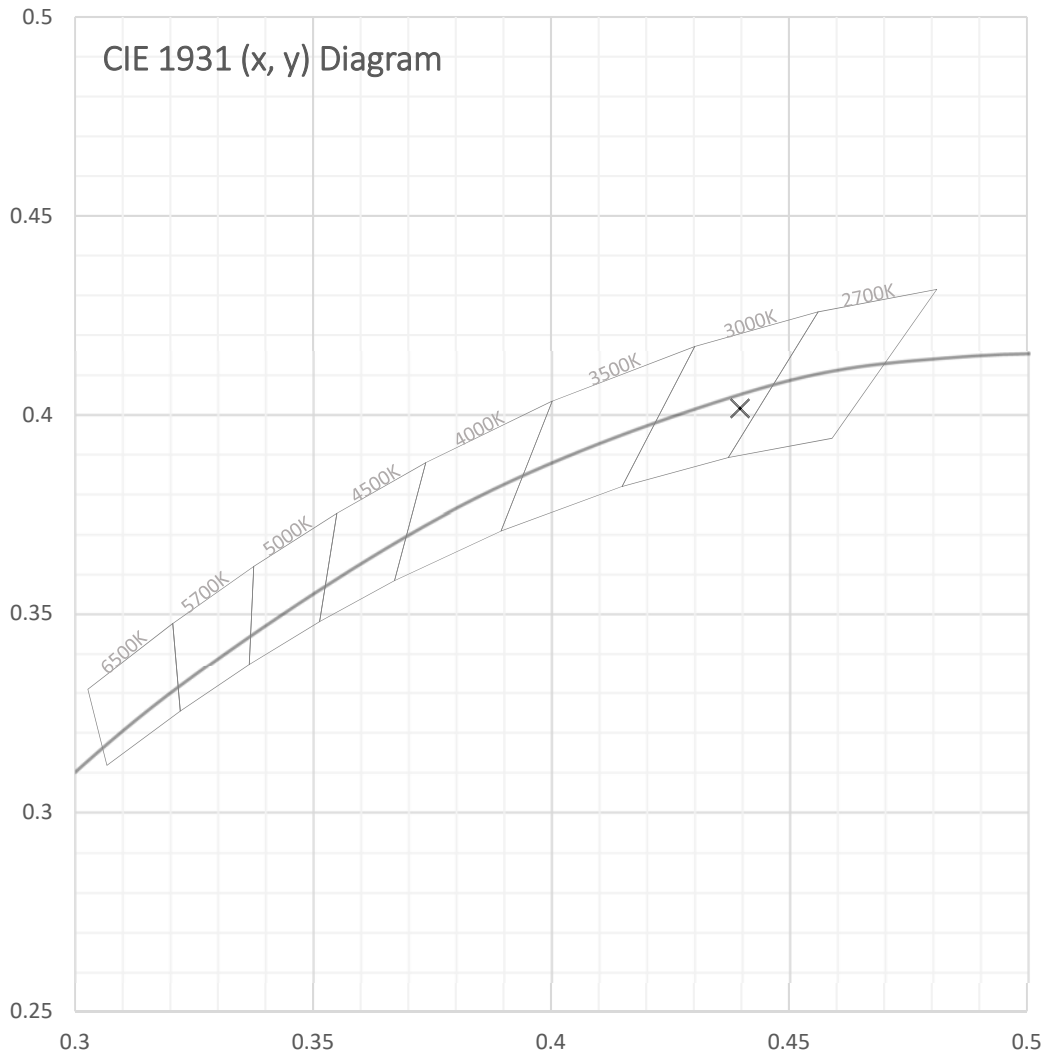


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One L.T.F. DA12W350C1834D010-0014 Dimmable LED driver





Test Report Number: LLIA000824-008B

Catalog Number: 3-587-224 Beacon Sconce

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Spectral Data

Total Radiant Flux	1.680 W
Total Luminous Flux	454.4 Lm
Chromaticity CIE 1931 (x, y)	(0.4397, 0.4016)
Chromaticity CIE 1976 (u', v')	(0.2534, 0.5208)
Correlated Color Temperature (CCT)	2933 K
Color Rendering Index (Ra)	96
R1	97
R2	98
R3	97
R4	96
R5	97
R6	97
R7	95
R8	90
R9	76
R10	94
R11	96
R12	89
R13	98
R14	97
Distance from Planckian Locus (Duv)	-0.0014
Scotopic/Photopic Ratio *	1.408

Electrical Data

Voltage	120.0 Vac
Current	0.0902 A
Power	10.41 W
Frequency	60.00 Hz
Power Factor	0.962
Current THD	10.2 %



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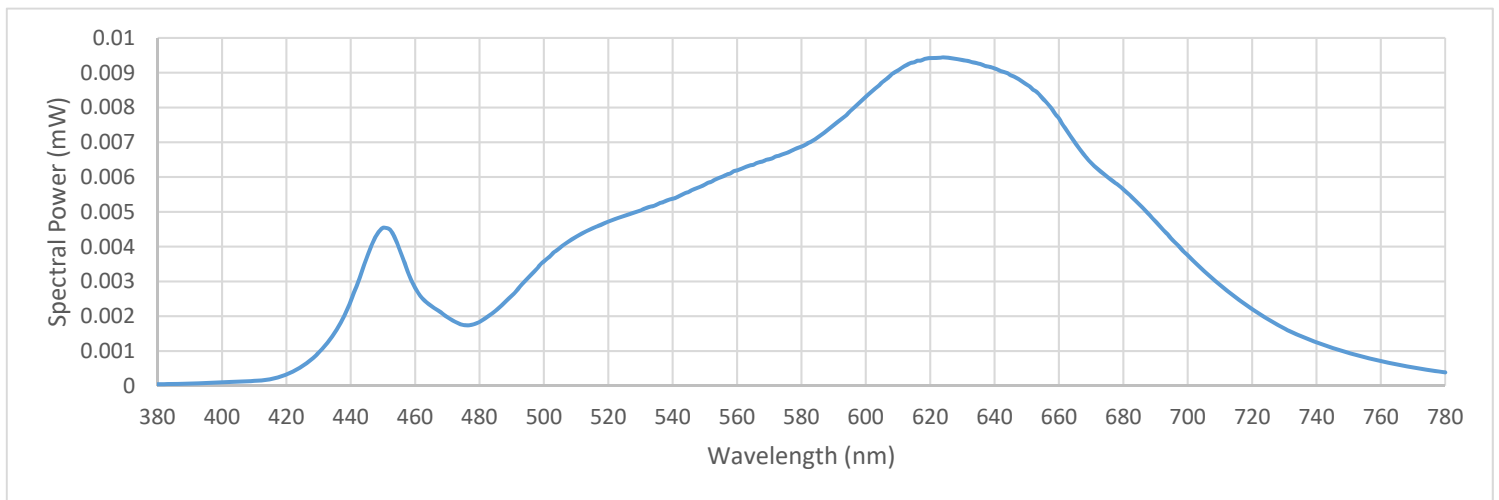
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Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.000045	480	0.001837	580	0.006878	680	0.005642
385	0.000050	485	0.002157	585	0.007138	685	0.005219
390	0.000063	490	0.002588	590	0.007491	690	0.004726
395	0.000078	495	0.003089	595	0.007882	695	0.004216
400	0.000098	500	0.003573	600	0.008303	700	0.003753
405	0.000119	505	0.003971	605	0.008718	705	0.003308
410	0.000141	510	0.004274	610	0.009065	710	0.002896
415	0.000188	515	0.004528	615	0.009300	715	0.002537
420	0.000327	520	0.004717	620	0.009423	720	0.002201
425	0.000567	525	0.004889	625	0.009436	725	0.001903
430	0.000952	530	0.005037	630	0.009364	730	0.001650
435	0.001527	535	0.005206	635	0.009262	735	0.001430
440	0.002436	540	0.005377	640	0.009126	740	0.001248
445	0.003690	545	0.005573	645	0.008927	745	0.001089
450	0.004541	550	0.005787	650	0.008653	750	0.000946
455	0.003952	555	0.005996	655	0.008249	755	0.000820
460	0.002825	560	0.006189	660	0.007689	760	0.000712
465	0.002293	565	0.006352	665	0.006982	765	0.000613
470	0.001976	570	0.006513	670	0.006404	770	0.000525
475	0.001746	575	0.006678	675	0.006009	775	0.000451
						780	0.000386





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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

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.