



8165 E Kaiser Blvd. Anaheim, CA 92808
www.lightlaboratory.com

Report No: L051701204



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Issue Date: 5/11/2017

Prepared For: Archlit
42 Ithanell Rd., Hopatcong NJ 07843

Model Number: Da-30HO-Ds-xx-xx-xx-(1)D-xx

Test: Photometric/Electrical Test

Standards Used: Appropriate part or all test guidelines were used for test performed:
IESNA LM79: 2008 Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products
ANSI NEMA ANSLG C78.377: 2008 Specification of the Chromaticity of Solid State Lighting Products
ANSI C82.77:2002: Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

Testing Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 5/4/17

Date of Tests: 5/10/17 - 5/11/17

Seasoning of Sample: No seasoning was performed in accordance with IESNA LM-79.

Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S1	11/28/17
ITECH	IT6122	PS-DC03-S1	11/28/17
Fluke Digital Thermometer	52k/J	MT-TP02-GC	11/28/17
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

Test Summary

Manufacturer:	Archlit
Model Number:	Da-30HO-Ds-xx-xx-xx-(1)D-xx
Driver Model Number:	MEAN WELL PWM-40-24
Total Lumens:	2718.40
Input Voltage (VAC/60Hz):	277.00
Input Current (Amp):	0.16
Input Power (W):	41.65
Input Power Factor:	0.94
Current ATHD @ 120V(%):	N/A
Current ATHD @ 277V(%):	14%
Efficacy:	65
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	1:00
Total Operating Time (Hours):	1:40

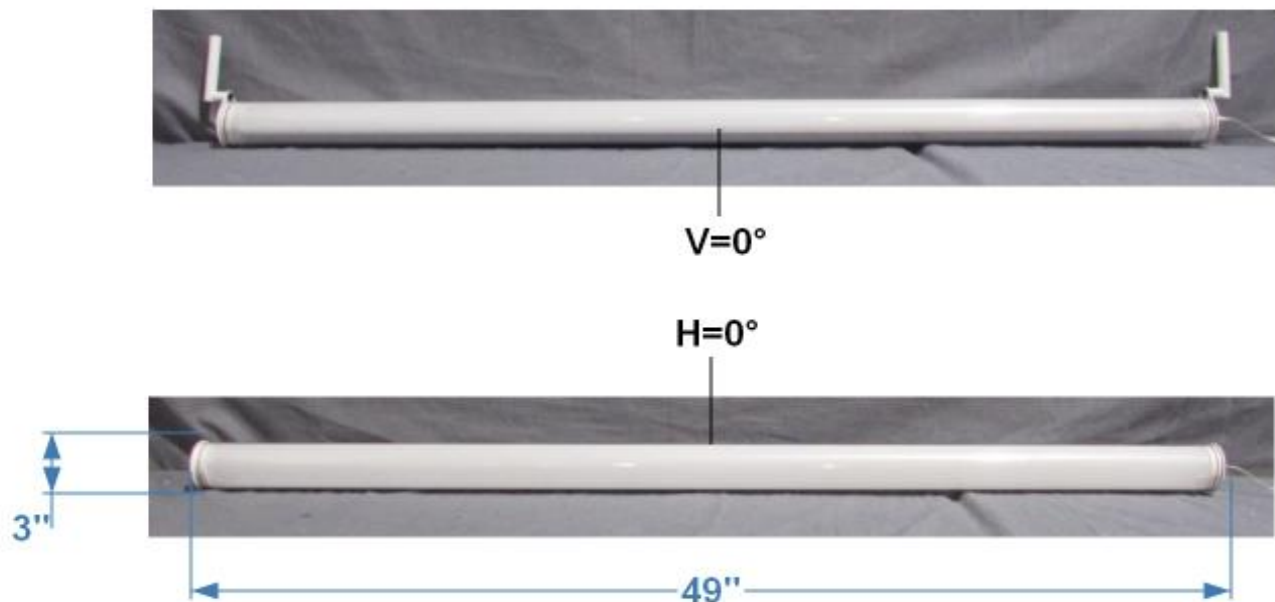


FIG.1 LUMINAIRE

Test Methods

Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Disclaimers:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by : Keyur Patel

Test Report Released by:



Jeff Ahn
Engineering Manager

Test Report Reviewed by:



Steve Kang
Quality Assurance

**Attached are photometric data reports. Total number of pages: 8*



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Photometric Test Report

IES INDOOR REPORT

PHOTOMETRIC FILENAME : L051701204.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L051701204
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 5/11/2017
[MANUFAC] Archlit
[LUMCAT] Da-30HO-Ds-xx-xx-xx-(1)D-xx
[LUMINAIRE] Da Outdoor High Output double sided.
[more] With diffuser film
[BALLASTCAT] MEAN WELL PWM-40-24
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 277VAC, 53.89W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2718
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	53.89
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.19 ft
Luminous Width (90-270)	3.88 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3244	3351	4866
55	2930	2884	4353
65	2727	2499	3576
75	2686	2253	2301
85	2914	2329	824

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051701204.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	403.81	403.81	403.81	403.81	403.81
5	403.56	402.40	402.40	400.98	400.65
10	398.83	397.29	396.50	394.38	393.93
15	390.77	389.19	387.12	384.09	382.88
20	379.73	377.69	374.37	369.68	367.94
25	366.19	363.20	358.10	351.91	349.34
30	350.50	347.01	338.87	331.73	328.66
35	334.06	329.03	318.11	308.23	303.75
40	316.54	309.31	294.82	282.08	275.68
45	297.94	289.42	270.20	253.01	246.20
50	279.92	269.99	245.71	223.91	215.65
55	262.40	250.40	220.84	192.85	181.85
60	245.79	231.96	196.96	162.13	146.98
65	230.59	215.36	175.46	132.07	113.35
70	217.47	200.87	156.15	103.80	80.30
75	206.76	188.70	138.96	80.01	47.50
80	199.45	180.40	126.71	60.29	22.67
85	195.47	175.29	119.45	47.54	7.39
90	194.80	173.96	117.21	43.22	2.33
95	194.56	174.54	119.66	48.16	6.98
100	198.79	179.61	127.21	61.03	22.75
105	206.51	188.20	139.54	82.21	47.83
110	217.14	200.74	156.48	104.38	78.97
115	230.18	215.07	175.87	132.36	113.10
120	245.54	231.71	197.84	162.67	147.81
125	262.40	250.27	221.33	193.60	182.93
130	279.83	269.91	245.96	224.28	215.31
135	298.02	289.63	270.91	254.09	247.12
140	316.29	310.14	295.78	282.95	277.84
145	334.22	329.91	319.23	309.02	305.58
150	351.16	348.17	339.99	332.19	330.07
155	367.02	365.11	359.38	353.74	351.83
160	381.14	379.44	375.66	371.59	370.76
165	391.85	390.98	388.82	385.95	385.46
170	400.07	399.16	398.24	396.83	396.75
175	404.97	404.18	404.14	403.64	403.89
180	405.97	405.97	405.97	405.97	405.97

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051701204.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	147.32	N.A.	5.40
0-30	312.27	N.A.	11.50
0-40	511.61	N.A.	18.80
0-60	919.78	N.A.	33.80
0-80	1235.02	N.A.	45.40
0-90	1357.67	N.A.	49.90
10-90	1319.49	N.A.	48.50
20-40	364.29	N.A.	13.40
20-50	573.90	N.A.	21.10
40-70	580.84	N.A.	21.40
60-80	315.24	N.A.	11.60
70-80	142.57	N.A.	5.20
80-90	122.65	N.A.	4.50
90-110	265.47	N.A.	9.80
90-120	438.23	N.A.	16.10
90-130	637.08	N.A.	23.40
90-150	1047.05	N.A.	38.50
90-180	1360.73	N.A.	50.10
110-180	1095.26	N.A.	40.30
0-180	2718.4	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.18
10-20	109.14
20-30	164.95
30-40	199.34
40-50	209.61
50-60	198.56
60-70	172.67
70-80	142.57
80-90	122.65
90-100	122.59
100-110	142.88
110-120	172.76
120-130	198.85
130-140	210.04
140-150	199.93
150-160	165.64
160-170	109.66
170-180	38.38

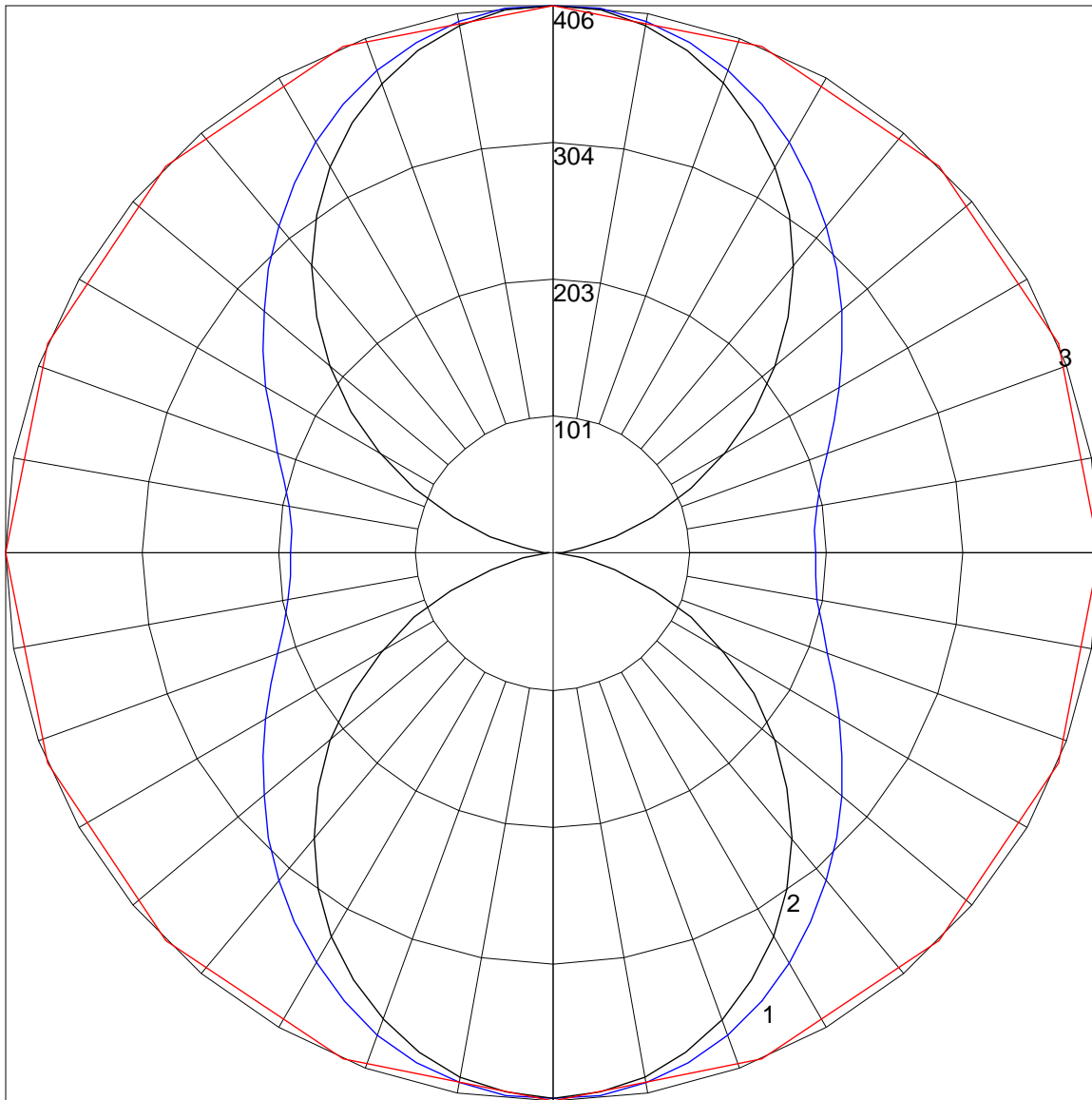
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	96	91	86	82	88	84	80	76	70	67	65	58	56	54	47	45	44	38
2	87	78	72	66	79	72	66	61	61	56	52	50	47	44	40	38	36	31
3	79	68	61	54	72	63	56	50	53	48	43	44	40	36	35	32	30	26
4	72	60	52	45	66	56	48	42	47	41	37	39	34	31	31	28	25	22
5	66	54	45	39	60	50	42	36	42	36	31	35	30	26	28	25	22	18
6	61	48	39	33	55	44	37	31	38	32	27	31	27	23	25	22	19	16
7	56	43	35	29	51	40	33	27	34	28	24	28	24	20	23	20	17	14
8	52	39	31	26	48	36	29	24	31	25	21	26	21	18	21	18	15	13
9	48	36	28	23	44	33	26	21	28	23	19	24	19	16	20	16	13	11
10	45	33	25	20	41	30	24	19	26	21	17	22	18	15	18	15	12	10

POLAR GRAPH



Maximum Candela = 405.97 Located At Horizontal Angle = 0, Vertical Angle = 180

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)