



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

Report No: L051701203



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Issue Date: 5/11/2017

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

Model Number: Da-30HO-DoSym-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-DoSym-xx-xx-xx-(1)D-xx
Driver Model Number:	INVENTRONICS EUC-052S105DT
Total Lumens:	3903.95
Input Voltage (VAC/60Hz):	277.00
Input Current (Amp):	0.2
Input Power (W):	53.89
Input Power Factor:	0.95
Current ATHD @ 120V(%):	N/A
Current ATHD @ 277V(%):	9%
Efficacy:	72
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:50
Total Operating Time (Hours):	1:20

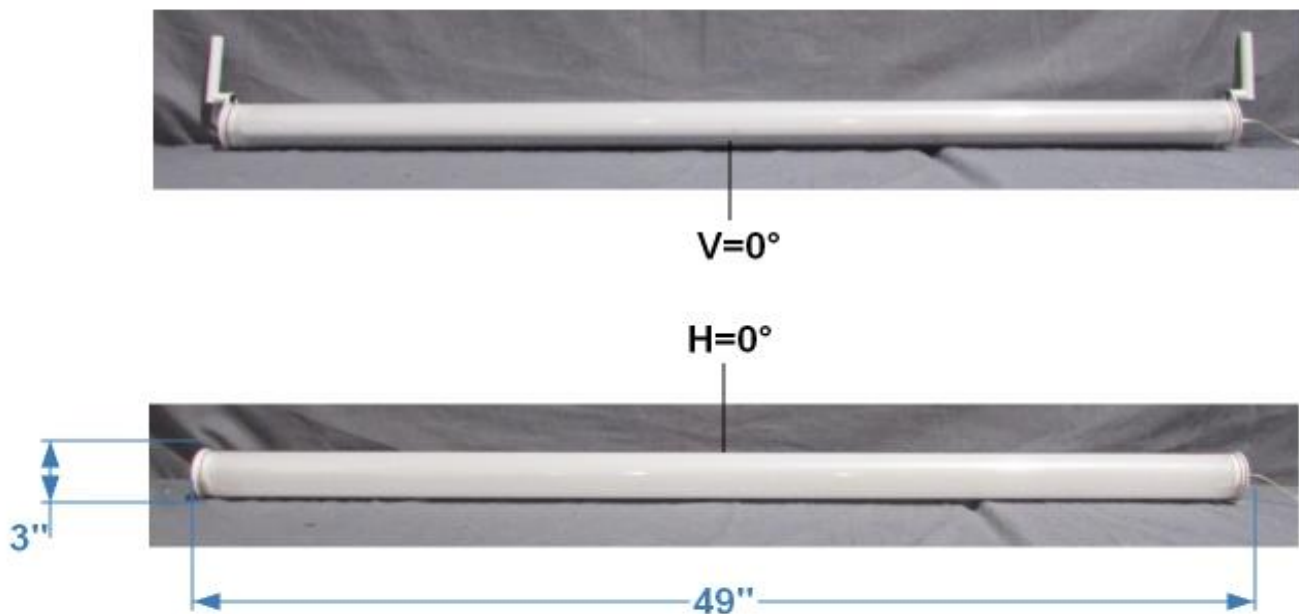


FIG.1 LUMINAIRE



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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*

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



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Photometric Test Report

IES INDOOR REPORT

PHOTOMETRIC FILENAME : L051701203.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L051701203
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 5/11/2017
[MANUFAC] Archlit
[LUMCAT] Da-30HO-DoSym-xx-xx-xx-(1)D-xx
[LUMINAIRE] Da Outdoor High Output aiming down ,
[more] Symmetrical reflector . With diffuser film
[BALLASTCAT] INVENTRONICS EUC-052S105DT
[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	3904
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	53.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
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	8830	9635	14961
55	7347	7913	13284
65	6114	6339	10822
75	5079	4977	7169
85	4219	3821	3123

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051701203.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1250	1250	1250	1250	1250
5	1242	1244	1242	1244	1244
10	1222	1225	1221	1224	1223
15	1189	1190	1188	1189	1187
20	1143	1146	1141	1141	1141
25	1091	1090	1084	1084	1084
30	1028	1023	1016	1016	1011
35	959	952	943	935	932
40	885	878	863	851	851
45	811	802	777	758	757
50	736	721	690	662	656
55	658	643	606	566	555
60	586	569	525	470	451
65	517	497	445	376	343
70	451	429	373	287	242
75	391	368	307	210	148
80	334	311	248	145	74
85	283	261	196	98	28
90	239	215	151	58	8
95	197	176	115	35	5
100	161	140	86	22	0
105	130	111	64	16	0
110	103	86	47	14	0
115	79	66	36	13	0
120	63	51	29	0	0
125	48	40	25	0	0
130	38	33	22	0	0
135	32	29	21	0	0
140	28	26	20	0	0
145	26	24	19	0	0
150	24	22	19	0	0
155	23	21	18	0	0
160	21	19	18	0	0
165	20	18	18	0	0
170	18	18	18	0	0
175	15	18	18	0	0
180	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051701203.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	453.23	N.A.	11.60
0-30	953.39	N.A.	24.40
0-40	1544.18	N.A.	39.60
0-60	2688.77	N.A.	68.90
0-80	3430.31	N.A.	87.90
0-90	3626.36	N.A.	92.90
10-90	3508.33	N.A.	89.90
20-40	1090.95	N.A.	27.90
20-50	1693.12	N.A.	43.40
40-70	1578.91	N.A.	40.40
60-80	741.53	N.A.	19.00
70-80	307.21	N.A.	7.90
80-90	196.06	N.A.	5.00
90-110	186.83	N.A.	4.80
90-120	225.34	N.A.	5.80
90-130	245.79	N.A.	6.30
90-150	267.54	N.A.	6.90
90-180	277.58	N.A.	7.10
110-180	90.76	N.A.	2.30
0-180	3903.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.04
10-20	335.20
20-30	500.16
30-40	590.79
40-50	602.17
50-60	542.42
60-70	434.32
70-80	307.21
80-90	196.06
90-100	118.03
100-110	68.80
110-120	38.51
120-130	20.45
130-140	12.90
140-150	8.85
150-160	5.84
160-170	3.28
170-180	0.92

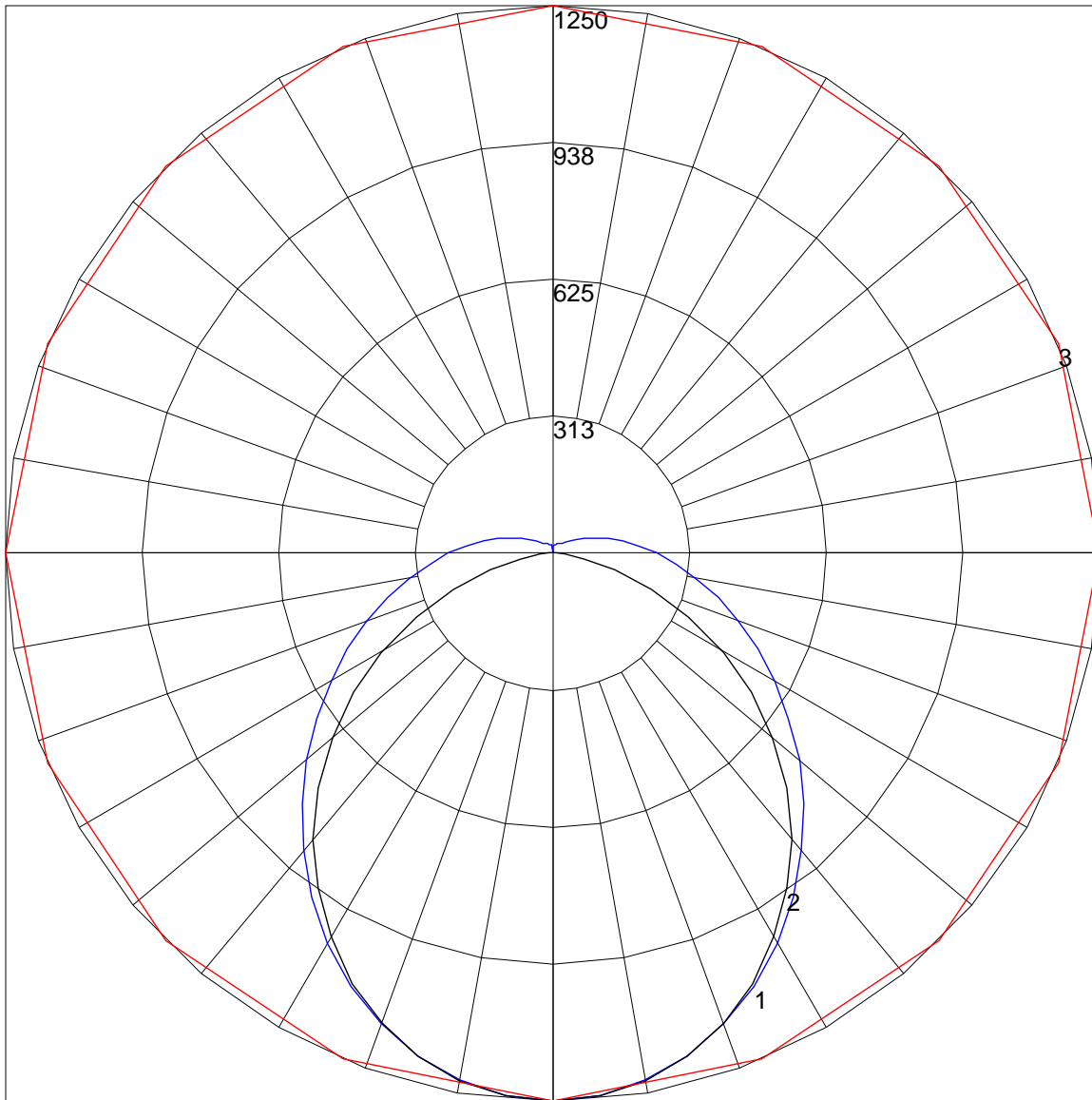
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	106	100	96	91	102	97	93	89	92	88	85	87	84	81	82	80	77	75
2	96	87	80	74	92	84	78	72	80	74	69	75	71	67	71	67	64	62
3	87	76	68	61	84	74	66	60	70	63	58	66	61	56	63	58	54	52
4	80	67	58	51	77	66	57	51	62	55	49	59	53	48	56	51	46	44
5	73	60	51	44	71	59	50	44	56	48	43	53	46	41	50	45	40	38
6	68	54	45	39	65	53	44	38	50	43	37	48	41	36	46	40	35	33
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	31	29
8	58	45	36	30	56	44	36	30	42	35	29	40	34	29	38	33	28	26
9	55	41	33	27	53	40	32	27	39	31	27	37	31	26	35	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	21

POLAR GRAPH



Maximum Candela = 1250 Located At Horizontal Angle = 0, Vertical Angle = 0

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 (0) (Through Max. Cd.)