



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

Report No: L051701201



Report No: L051701201

Issue Date: 5/11/2017

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

Model Number: Da-30HO-Do-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-Do-xx-xx-xx-(1)D-xx
Driver Model Number:	INVENTRONICS EUC-052S105DT
Total Lumens:	4670.92
Input Voltage (VAC/60Hz):	277.00
Input Current (Amp):	0.2
Input Power (W):	53.81
Input Power Factor:	0.95
Current ATHD @ 120V(%):	N/A
Current ATHD @ 277V(%):	9%
Efficacy:	87
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	1:00
Total Operating Time (Hours):	1:30

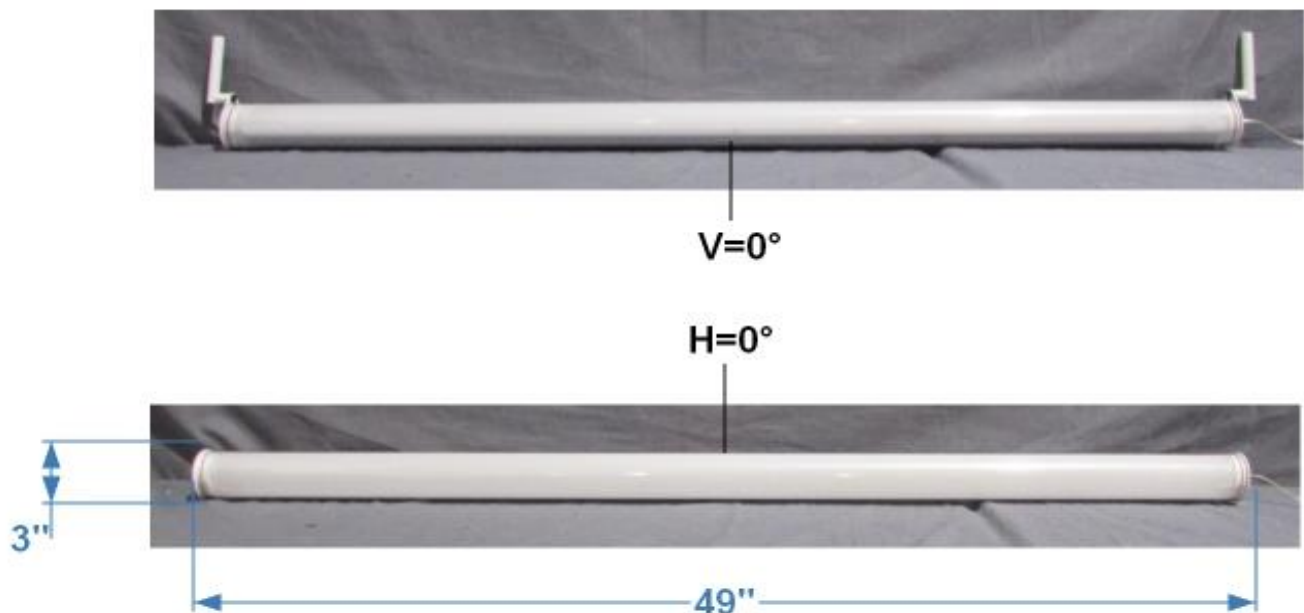


FIG.1 LUMINAIRE



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

Report No: L051701201



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.*



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

Photometric Test Report

IES INDOOR REPORT

PHOTOMETRIC FILENAME : L051701201.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L051701201
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 5/11/2017
[MANUFAC] Archlit
[LUMCAT] Da-30HO-Do-xx-xx-xx-(1)D-xx
[LUMINAIRE] Da Outdoor High Output std distribution aiming Down
[more] std, no 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, 53.81W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4671
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	53.81
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.42
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	9592	9747	13341
55	8709	8552	11656
65	7959	7492	9403
75	7378	6630	6152
85	7022	6102	2565

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051701201.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1133	1133	1133	1133	1133
5	1131	1130	1128	1127	1125
10	1121	1119	1113	1108	1105
15	1103	1099	1088	1078	1073
20	1079	1072	1054	1037	1027
25	1049	1039	1012	987	975
30	1013	999	964	929	912
35	973	955	909	859	837
40	929	906	850	788	757
45	881	855	786	709	675
50	832	801	719	628	583
55	780	745	655	545	487
60	726	689	590	464	383
65	673	633	526	383	298
70	620	577	466	310	207
75	568	526	409	242	127
80	518	475	354	184	61
85	471	429	313	139	23
90	426	386	274	107	7
95	385	342	239	85	5
100	343	311	209	72	6
105	313	279	184	64	0
110	281	250	164	60	0
115	251	223	146	57	0
120	224	199	131	56	0
125	200	178	120	54	0
130	177	159	108	52	0
135	157	142	96	50	0
140	139	127	86	49	0
145	123	112	78	48	0
150	108	95	72	48	0
155	95	81	67	49	0
160	83	70	61	51	0
165	73	61	58	53	0
170	58	55	56	55	0
175	38	54	57	56	0
180	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051701201.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	414.36	N.A.	8.90
0-30	881.18	N.A.	18.90
0-40	1449.24	N.A.	31.00
0-60	2630.23	N.A.	56.30
0-80	3537.41	N.A.	75.70
0-90	3847.06	N.A.	82.40
10-90	3739.84	N.A.	80.10
20-40	1034.88	N.A.	22.20
20-50	1638.72	N.A.	35.10
40-70	1684.01	N.A.	36.10
60-80	907.18	N.A.	19.40
70-80	404.16	N.A.	8.70
80-90	309.64	N.A.	6.60
90-110	418.63	N.A.	9.00
90-120	556.22	N.A.	11.90
90-130	657.84	N.A.	14.10
90-150	776.50	N.A.	16.60
90-180	823.87	N.A.	17.60
110-180	405.23	N.A.	8.70
0-180	4670.92	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.22
10-20	307.14
20-30	466.82
30-40	568.06
40-50	603.84
50-60	577.15
60-70	503.02
70-80	404.16
80-90	309.64
90-100	236.82
100-110	181.81
110-120	137.59
120-130	101.62
130-140	71.41
140-150	47.25
150-160	28.52
160-170	14.88
170-180	3.96

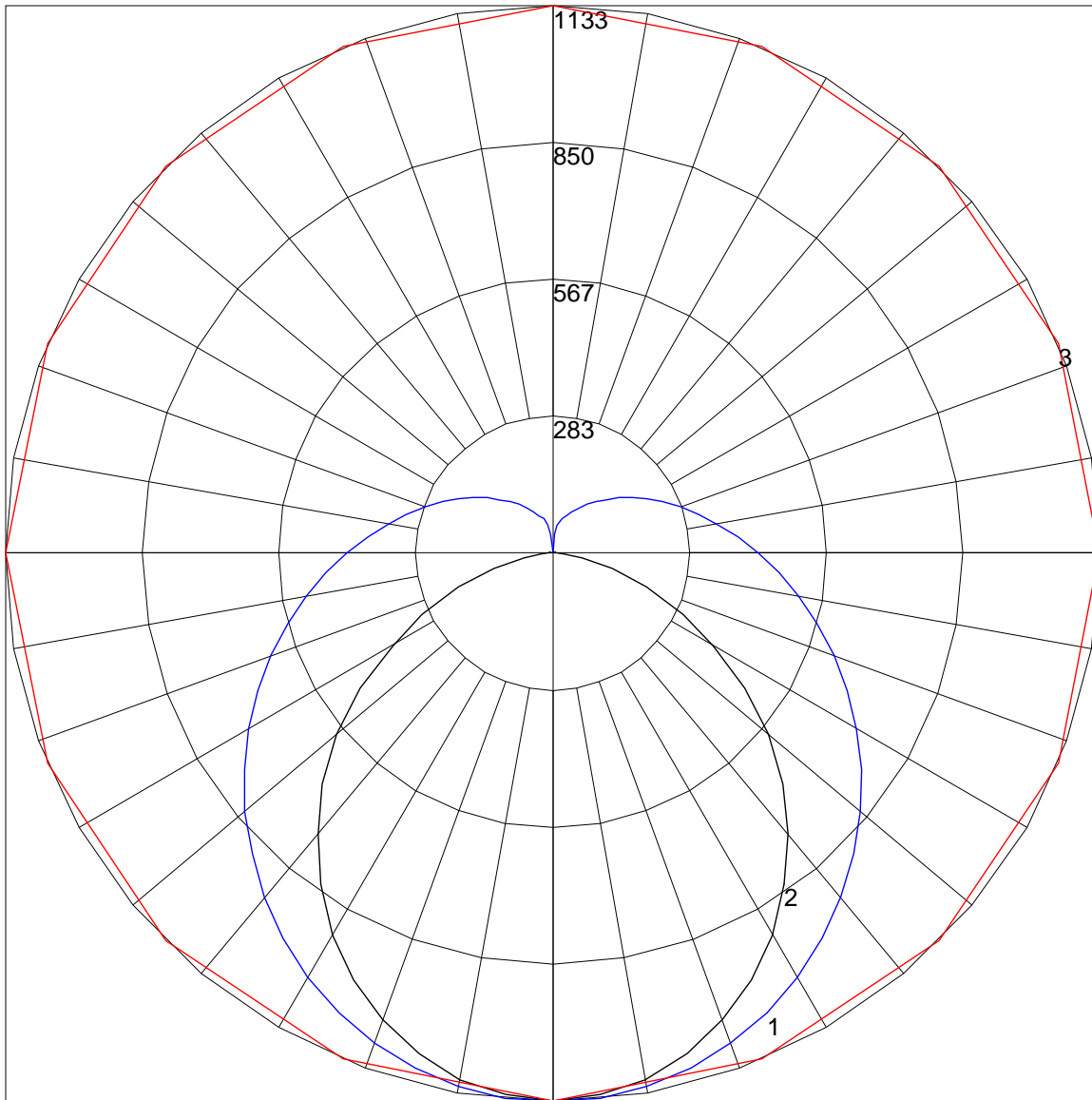
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051701201.IES

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82
1	102	97	91	87	98	92	88	84	85	81	78	78	75	72	72	69	67	64
2	92	83	75	69	88	79	73	67	73	67	62	67	62	58	62	58	55	51
3	84	72	63	56	79	69	61	55	64	57	52	59	53	48	54	49	45	42
4	76	64	54	47	72	61	53	46	56	49	43	52	46	41	48	43	39	36
5	70	57	47	40	66	54	46	39	50	43	37	46	40	35	43	37	33	31
6	64	51	42	35	61	49	40	34	45	38	32	42	36	31	39	33	29	27
7	60	46	37	31	57	44	36	30	41	34	28	38	32	27	35	30	26	23
8	55	42	33	27	53	40	32	27	37	30	25	35	29	24	32	27	23	21
9	52	38	30	24	49	37	29	24	34	27	23	32	26	22	30	25	21	19
10	48	35	27	22	46	34	26	21	32	25	20	30	24	20	28	22	19	17

POLAR GRAPH



Maximum Candela = 1133 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.)