

AFX, INC.

TEST REPORT

SCOPE OF WORK

Electrical and Photometric tests as required to the IESNA test standard.

MODEL NUMBER
ALV240535LAJD2

REPORT NUMBER
103792309CHI-003

ISSUE DATE
February 26, 2019

REVISION DATE
None

DOCUMENT CONTROL NUMBER
TBD
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REPORT NO.: 103792309CHI-003
REPORT DATE: February 26, 2019

TEST REPORT

TEST OF ONE 2' LINEAR AMBIENT LUMINAIRE

MODEL NO. ALV240535LAJD2
LED MODEL NO. SAMSUNG 281B+
DRIVER MODEL NO. KEYSTONE TECHNOLOGIES KTLD-23-UV-830-VDIM-L7

RENDERED TO:

AFX, INC.
2345 N. ERNIE KRUEGER CIRCLE
WAUKEGAN, IL 60087

AUTHORIZATION

The testing performed was authorized by signed quote number Qu-00935446-0.

STANDARDS USED

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

DESCRIPTION OF SAMPLE

The client submitted one production sample of model number ALV240535LAJD2. The sample was received by Intertek on February 18, 2019 in undamaged condition and one sample was tested as received. The sample designation was AH02182019093644B.

DATE OF TESTS

February 25, 2019.

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SUMMARY

MODEL NO:	ALV240535LAJD2
DESCRIPTION:	2' Linear Ambient Luminaire

CRITERIA	RESULTS
Lumen Output (lumens)	1833.0
Input Power (W) @ 120 (VAC)	21.37
Lumen Efficacy (lm/W)	85.8
Input Power Factor @ 120 (VAC)	0.991

EQUIPMENT LIST

EQUIPMENT USED	MODEL NO.	CONTROL NO.	LAST CAL DATE	CAL DUE DATE
Yokogawa Power Meter	WT210	146919	7/9/2018	7/9/2019
Omega Thermometer	DPI8-C24	146920	10/4/2018	10/4/2019
LSI High Speed Mirror Goniometer	6440T	146928	VBU	VBU
Newport Thermohygrometer	iServer	146379	4/16/2018	4/16/2019
Pacific, AC power supply	118-ACX	CHI0358	VBU	VBU

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TEST METHODS

SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS

No seasoning was performed in accordance with IESNA LM-79.

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD

A Type C Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for the SSL sample.

Ambient temperature was measured equal to the height of the sample mounted on the goniometer equipment. The SSL sample was operated on the client provided driver at rated input volts in its designated orientation. The SSL sample was allowed to stabilize for at least thirty minutes before measurements were made. Stabilization procedures to LM-79 were followed. Electrical measurements including voltage, current, and power were measured using a power analyzer.

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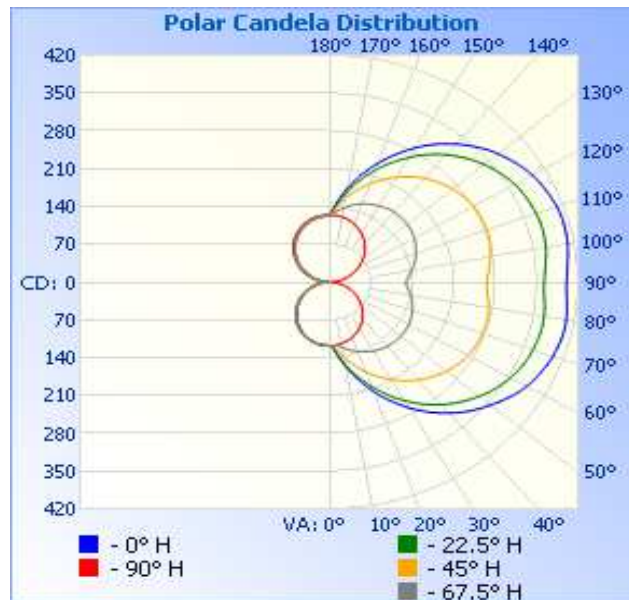
RESULTS OF TESTS

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

INTERTEK CONTROL NO.	BASE POSITION	INPUT VOLTAGE (VAC)	INPUT CURRENT (mA)	INPUT POWER (W)	INPUT POWER FACTOR	LIGHT OUTPUT (lm)	LUMEN EFFICACY (lm/W)
AH02182019093644B	Horizontal	120.1	179.6	21.37	0.991	1833.0	85.8

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	118	118	118	118	118
5	131	130	123	118	117
10	157	155	140	122	116
15	185	180	158	130	113
20	214	204	175	136	110
25	242	229	192	142	105
30	268	253	208	148	100
35	294	276	223	152	94
40	317	296	236	154	88
45	337	314	247	156	80
50	354	329	257	157	72
55	372	343	265	157	64
60	385	354	271	156	55
65	395	361	275	153	46
70	402	366	276	150	37
75	406	369	276	145	28
80	406	368	274	140	19
85	403	365	269	134	11
90	401	363	266	130	5
95	404	366	270	135	10
100	409	371	277	143	19
105	410	373	281	150	29
110	409	372	283	156	39
115	404	368	283	161	49
120	396	362	281	166	59
125	385	352	276	168	68
130	371	340	270	170	77
135	354	325	261	170	86
140	334	308	251	170	94
145	312	288	239	168	101
150	287	266	224	164	107
155	260	243	209	160	112
160	232	219	192	154	117
165	204	194	175	147	120
170	176	169	157	140	123
175	148	143	139	131	124
180	124	124	124	124	124



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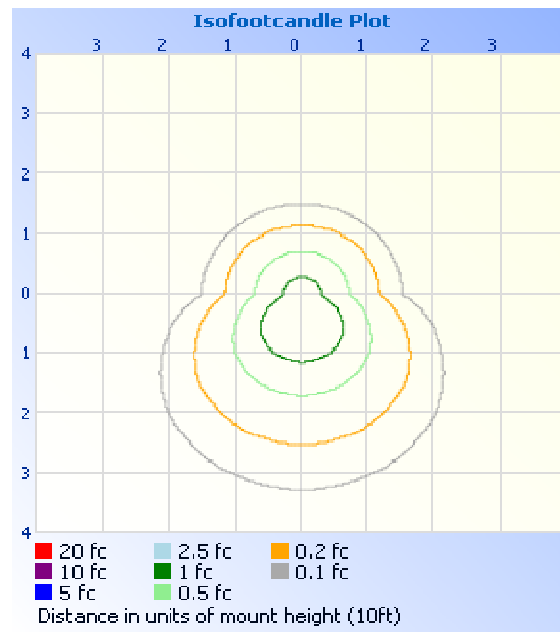
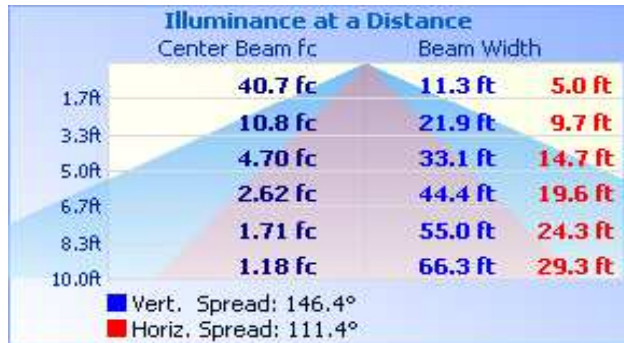
TEST REPORT

RESULTS OF TESTS

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

MOUNTING HEIGHT: 10ft

ILLUMINANCE - CONE OF LIGHT	ISOILLUMINATION PLOT
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ZONAL LUMEN SUMMARY AND PERCENTAGES

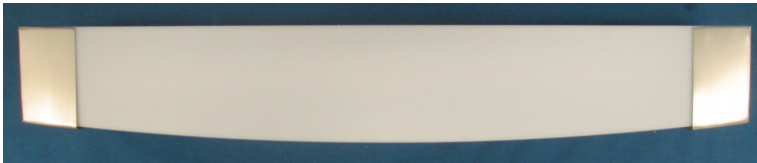
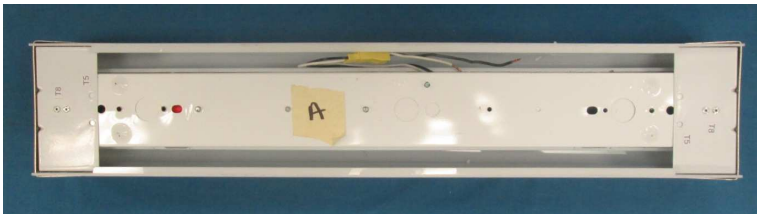
ZONE	LUMENS	% LUMINAIRE
0-30	116.8	6.4
0-40	212.5	11.6
0-60	470.4	25.7
60-90	430.9	23.5
70-100	421.2	23.0
90-120	436.5	23.8
0-90	901.3	49.2
90-180	931.8	50.8
0-180	1833.0	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	11.7	0.6
10-20	38.0	2.1
20-30	67.1	3.7
30-40	95.6	5.2
40-50	120.0	6.5
50-60	137.9	7.5
60-70	146.9	8.0
70-80	146.5	8.0
80-90	137.5	7.5
90-100	137.2	7.5
100-110	148.4	8.1
110-120	150.8	8.2
120-130	143.2	7.8
130-140	125.9	6.9
140-150	101.1	5.5
150-160	71.5	3.9
160-170	40.9	2.2
170-180	12.6	0.7

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PICTURES



CONCLUSION

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

In Charge Of Tests:

Timothy Quigley
Engineer
Lighting Division

Report Reviewed By:

Hector Huitron
Associate Engineer
Lighting Division

Attachments: IES File

REVISION HISTORY

JOB NUMBER	DATE OF REVISION	PROJECT HANDLER	REVIEWED BY	REVISION NOTE
None				