

REPORT

545 E. Algonquin Rd., Arlington Heights, IL 60005

Project No. G102929574 Date: April 4, 2018

REPORT NO. 103136304CHI-029A

TEST OF ONE ALGIERS OVERBED

MODEL NO. ALB495400L30ENSN-LA LED MODEL NO. SAMSUNG 281B+ DRIVER MODEL NO. KEYSTONE

RENDERED TO

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

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

AUTHORIZATION: The testing performed was authorized by signed quote number Qu-00761824-0.

The following American National Standards or Illuminating Engineering Society of STANDARDS USED:

North America Test Guides were used in part or totally to test each specimen:

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

DESCRIPTION OF SAMPLE: The client submitted one production sample of model number

> ALB495400L30ENSN-LA. The sample was received by Intertek on February 2. 2018, in undamaged condition and one sample was tested as received. The sample

designation was AH02022018041836-095.

DATES OF TESTS: April 3, 2018

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to copy or distribute this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



SUMMARY

Model No.: ALB495400L30ENSN-LA
Description: Algiers Overbed

Criteria	Result
Total Lumen Output (Lumens)	4647
Total Power (W)	79.32
Luminaire Efficacy (LPW)	58.59
Power Factor	0.993

EQUIPMENT LIST

	Model	Control	Last Date	Calibration	Date	
Equipment Used	Number	Number	Calibrated	Due Date	Used	
Yokogawa Power Meter	WT210	146919	07/10/17	07/10/18	04/03/18	
Omega Newport Thermometer	DPI8-C24	146920	10/04/17	10/04/18	04/03/18	
LSI High Speed Mirror Goniometer	6440T	146928	VBU	VBU	04/03/18	
Newport Thermohygrometer	iServer	146957	11/17/17	11/17/18	04/03/18	
Pacific, AC power supply	118-ACX	CHI0358	VBU	VBU	04/03/18	

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 LSI Type C High Speed Model 6440 Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for each sample.

Ambient temperature was measured equal to the height of the sample mounted on the Goniometer equipment. Each sample was operated at input rated voltage in its designated orientation. Each sample was allowed to stabilize for at least thirty minutes before measurements were made. Electrical measurements including voltage, current, and power were measured using the Xitron or Yokogawa Power Analyzer.

Some graphics were created with Photometrics Plus software.



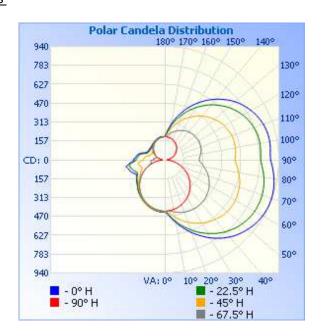
RESULTS OF TEST

Photometric and Electrical Measurements at Ambient Temperature (25℃ +/- 1℃) – Distribution Method

		Input	Input	Input	Input	Absolute	Lumen	
Intertek	Base	Voltage	Current	Power	Power	Luminous Flux	Efficacy	
Sample No.	Orientation	{Vac}	(mA)	(Watts)	Factor	(Lumens)	(LPW)	
AH02022018041836-095	Horizontal	1199	666 O	79 32	U 003	4647	58 59	

Intensity (Candlepower) Summary at 25℃ - Candelas

Angle	0	25	45	67.5	90
0	430	430	430	430	430
5	473	468	447	426	423
10	529	519	483	437	418
15	585	569	517	451	409
20	642	617	550	461	397
25	695	663	579	468	382
30	748	706	606	472	365
35	794	746	629	472	344
40	835	779	645	469	322
45	869	807	660	463	296
50	895	829	669	452	268
55	916	845	672	440	239
60	930	854	672	423	206
65	937	857	663	402	173
70	936	854	654	381	138
75	928	844	639	354	103
80	914	829	618	328	70
85	894	808	598	301	38
90	872	790	578	283	18
95	873	792	585	290	27
100	878	796	590	301	40
105	875	793	592	311	55
110	864	782	588	316	71
115	845	766	577	320	85
120	821	744	567	322	100
125	790	714	550	320	114
130	752 707	680	527	317	126
135	707	640	504	312	139
140	657	597	474	303	149
145	604	549	443	294	158
150	546	498	408	282	167
155	487	446	373	268	175
160	424	391 337	335 296	253 236	181 186
165 170	362 300	337 283	296 257	236 219	189
170	240	203 229	218	202	192
180	193	193	193	193	193
100	193	133	133	133	133





RESULTS OF TEST (cont'd)

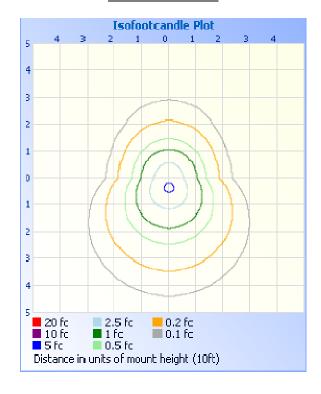
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light

Illuminance at a Distance Center Beam fc Beam Width 107.4 fc 16.0 ft 5.8 ft 2.0ft 26.8 fc 31.9 ft 11.6 ft 4.0ft 11.9 fc 47.9 ft 17.4 ft 6.0A 6.7 fc 63.8 ft 23.2 ft 8,08 4.3 fc 79.8 ft 29.0 ft 10.0A ■ Vert. Spread: 151.8° Horiz, Spread: 110.9°

Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

	Zone	Lumens	% Luminaire
•	0-30	392.5	8.4
	0-40	691.5	14.9
	0-60	1451	31.2
	60-90	1232	26.5
	0-90	2683	57.7
	90-180	1964.0	42.3
	0-180	4647	100.0

Zonal Lumens and Percentages at 25℃

Zone	Lumens	% Luminaire
0-10	42.2	0.9
10-20	130.8	2.8
20-30	219.5	4.7
30-40	299.0	6.4
40-50	360.7	7.8
50-60	399.1	8.6
60-70	414.6	8.9
70-80	419.0	9.0
80-90	398.4	8.6
90-100	373.5	8.0
100-110	355.8	7.7
110-120	323.0	6.9
120-130	285.1	6.1
130-140	236.4	5.1
140-150	180.6	3.9
150-160	122.5	2.6
160-170	67.2	1.4
170-180	20.0	0.4



PICTURES (not to scale)

Front



Top



Back



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:

Tim Dugley

Tim Quigley Engineer

Lighting Division

Attachment: None

Report Reviewed By:

Hector Huitron Associate Engineer Lighting Division