



REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G102085143

Date: April 16, 2015

REPORT NO. 102085143LAX-001

TEST OF ONE WALL BRACKET JELLY JAR

MODEL NO. H-CGU-10-1B
LED MODEL NO. BRIDGELUX BXRC-40E2000-C-2X
DRIVER MODEL NO. INVENTRONICS LUC-018050DSP

RENDERED TO

HI-LITE MFG
13450 MONTE VISTA AVE
CHINO, CA. 91710

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

STATEMENT OF LIMITATION: This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the federal government.

AUTHORIZATION: The testing performed was authorized by signed quote number 500591995.

STANDARDS USED: The following American National Standards or Illuminating Engineering Society of 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 H-CGU-10-1B. The sample was received by Intertek on February 23, 2015, in undamaged condition and one sample was tested as received. The sample designation was LAN1502231343-003.

DATES OF TESTS: April 15, 2015

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SUMMARY

Model No.:	H-CGU-10-1B
Description:	WALL BRACKET JELLY JAR

Criteria	Result
Total Lumen Output (Lumens)	1169.6
Total Power (W)	18.00
Luminaire Efficacy (LPW)	65.00
Power Factor	0.995

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date
LSI High Speed Mirror Goniometer	6440T	000943	03/23/15	04/23/15
DC Power Supply	CW1251	000949	12/24/14	12/24/15
Yokogawa Power Analyzer	WT210	000945	11/26/14	11/26/15
Temp. & RH Meter	971	001178	12/22/14	12/22/15
Extech Instruments Stop Watch	9/23/2900	001390	12/08/14	12/08/15
Tape Measure	33-430	001491	12/08/14	12/08/15

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 Yokogawa Power Analyzer.

Some graphics were created with Photometrics Plus software.

RESULTS OF TEST

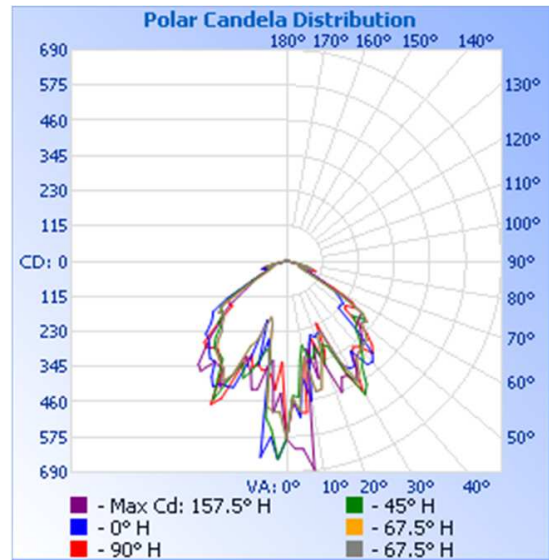
Photometric and Electrical Measurements at Ambient Temperature (25°C +/- 1°C) – Distribution Method

Intertek Sample No.	Base Orientation	Input Voltage {Vac}	Input Current (mA)	Input Power (Watts)	Input Power Factor	Absolute Luminous Flux (Lumens)	Lumen Efficacy (Lumens Per Watt)
LAN1502231343-003	LINEAR	120.0	150.5	18.00	0.995	1169.6	65.00

Intensity (Candlepower) Summary at 25°C - Candelas

Maximum Candela Value:

Angle	0	22.5	45	67.5	90
0	580	580	580	580	580
5	513	465	445	492	496
10	464	352	278	317	328
15	278	300	329	433	286
20	265	305	353	330	358
25	251	311	307	254	223
30	404	499	504	455	489
35	357	388	421	391	367
40	429	373	373	372	365
45	320	312	313	364	388
50	224	273	277	313	246
55	208	237	295	298	266
60	141	142	102	105	172
65	76	67	46	47	65
70	61	51	55	72	100
75	67	67	68	65	32
80	10	12	22	14	10
85	7	6	10	5	6
90	4	4	4	3	4
95	4	2	3	4	3
100	3	3	2	3	4
105	2	4	4	3	2
110	2	3	2	3	2
115	3	3	1	1	2
120	3	3	3	4	4
125	3	3	2	4	4
130	3	4	3	5	3
135	3	4	4	5	3
140	3	3	4	4	4
145	3	4	5	3	1
150	3	3	4	3	1
155	5	2	1	3	1
160	3	1	0	2	1
165	3	1	1	3	3
170	2	1	0	1	1
175	0	0	1	2	0
180	1	1	1	1	1

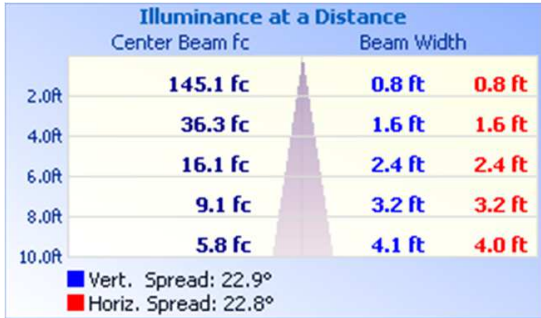


RESULTS OF TEST (cont'd)

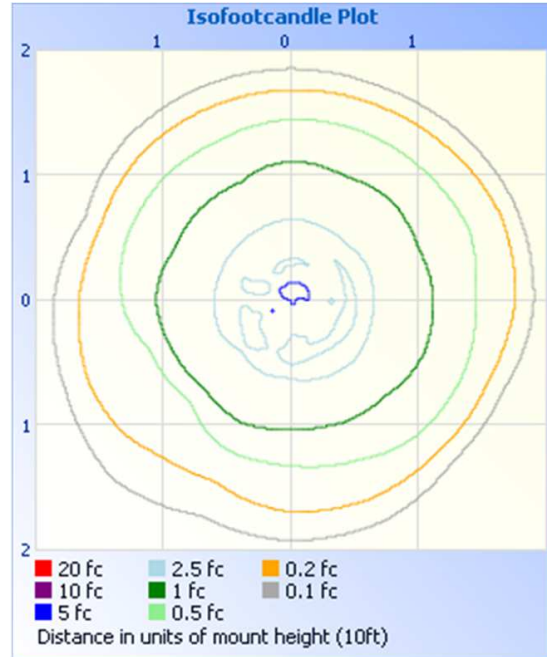
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	315.5	27.0%
0-40	565.9	48.4%
0-60	1019	87.1%
60-90	132.8	11.4%
0-90	1151.6	5.1%
90-180	18	1.5%
0-180	1169.6	100.0%

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	43.7	3.7%
10-20	92.8	7.9%
20-30	179.0	15.3%
30-40	250.4	21.4%
40-50	250.9	21.4%
50-60	202.1	17.3%
60-70	76.6	6.5%
70-80	49.1	4.2%
80-90	7.0	0.6%
90-100	3.4	0.3%
100-110	2.7	0.2%
110-120	2.7	0.2%
120-130	2.7	0.2%
130-140	2.6	0.2%
140-150	2.1	0.2%
150-160	1.3	0.1%
160-170	0.4	0.0%
170-180	0.1	0.0%

PICTURE (not to scale)



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:



Jesse Reyna
Engineer
Lighting Division

Attachment: None

Report Reviewed By:



Kenda Branch
Lighting Performance Team Lead
Lighting Division