

VISUAL COMFORT GROUP TEST REPORT

SCOPE OF WORK

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

MODEL NUMBER

700BCOBLxx

REPORT NUMBER

103643585CHI-039

ISSUE DATE

February 15, 2019

REVISION DATE

None

DOCUMENT CONTROL NUMBER

TBD

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REPORT DATE: February 15, 2019

TEST REPORT

TEST OF ONE WALL MOUNTED LUMINAIRE

MODEL NO. 700BCOBLXX
LED MODEL NO. EMERY ALLEN 5.0W G9

RENDERED TO:

VISUAL COMFORT GROUP
7400 LINDER AVE.
SKOKIE, IL 60077

AUTHORIZATION

The testing performed was authorized by signed quote number Qu-00912313-2.

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 700BCOBLxx. The sample was received by Intertek on January 24, 2019 in undamaged condition and one sample was tested as received. The sample designation was AH01242019034321-039.

DATE OF TESTS

February 14, 2019.

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TEST REPORT

SUMMARY

MODEL NO:	700BCOBLxx
DESCRIPTION:	Wall Mounted Luminaire

CRITERIA	RESULTS
Lumen Output (lumens)	1112.9
Input Power (W) @ 120 (VAC)	13.24
Lumen Efficacy (lm/W)	84.1
Input Power Factor () @ 120 (VAC)	0.981
BUG Rating	B0-U3-G1
IES Classification	N.A
Longitudinal Classification	N.A.

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	VBV	VBV
Newport Thermohygrometer	iServer	146379	4/16/2018	4/16/2019
Pacific, AC power supply	118-ACX	CHI0358	VBV	VBV

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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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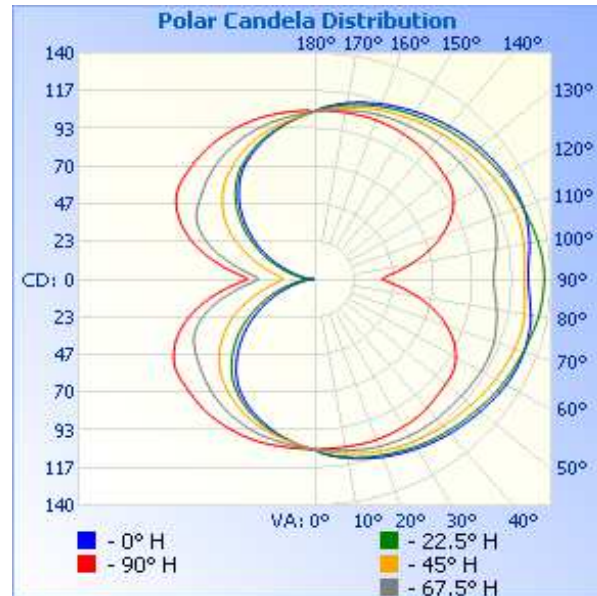
RESULTS OF TESTS

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)
AH01242019034321-039	Base Up	120.0	112.5	13.24	0.981	1112.9	84.1

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	106	106	106	106	106
5	110	109	107	106	105
10	112	112	109	108	105
15	115	114	111	109	106
20	117	116	113	110	106
25	119	118	115	111	106
30	121	120	116	112	105
35	123	121	118	112	105
40	125	123	119	113	104
45	126	124	120	113	102
50	128	126	121	113	101
55	129	127	122	113	100
60	131	129	124	114	97
65	132	130	125	114	91
70	132	132	126	113	83
75	131	133	127	111	73
80	130	135	126	110	62
85	128	136	125	107	50
90	126	136	124	106	40
95	127	136	125	107	48
100	129	134	126	109	59
105	131	133	126	111	70
110	131	131	126	113	80
115	131	130	125	114	89
120	130	128	123	114	95
125	129	127	122	113	99
130	127	125	120	112	100
135	126	123	119	112	102
140	124	121	118	111	103
145	122	120	116	111	104
150	120	118	114	110	104
155	118	116	113	109	105
160	116	114	112	109	105
165	113	112	110	108	105
170	111	110	108	106	105
175	108	107	106	105	105
180	104	104	104	104	104



Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	47.4	N/A	4.3
FM (30-60)	135.7	N/A	12.2
FH (60-80)	122.1	N/A	11.0
FVH (80-90)	62.3	N/A	5.6
BL (0-30)	41.1	N/A	3.7
BM (30-60)	90.4	N/A	8.1
BH (60-80)	48.9	N/A	4.4
BVH (80-90)	13.2	N/A	1.2
UL (90-100)	74.7	N/A	6.7
UH (100-180)	477.1	N/A	42.9
Total	1112.9	N/A	100.0

BUG RATING B0-U3-G1

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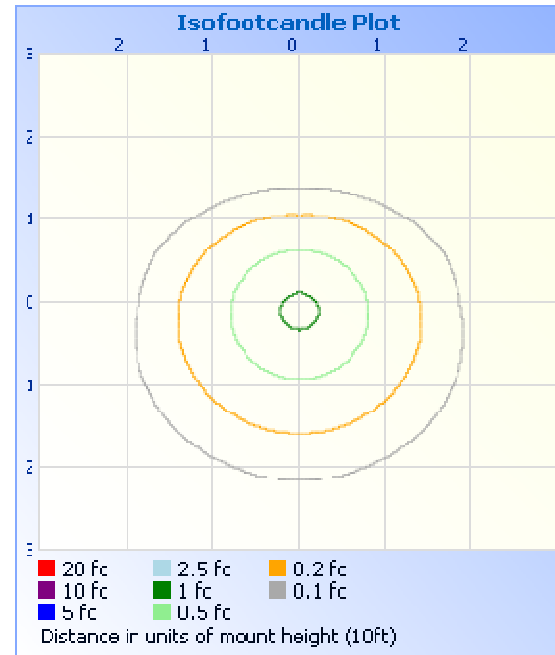
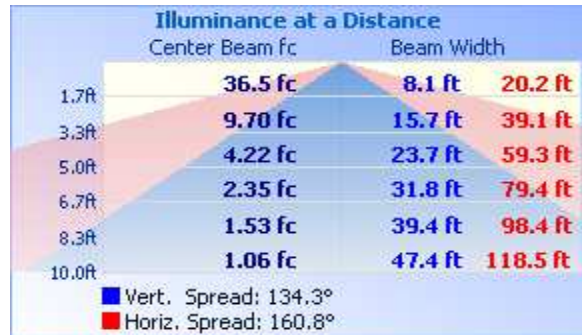
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RESULTS OF TESTS

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

MOUNTING HEIGHT: 10ft	
ILLUMINANCE - CONE OF LIGHT	ISOILLUMINATION PLOT



ZONAL LUMEN SUMMARY AND PERCENTAGES

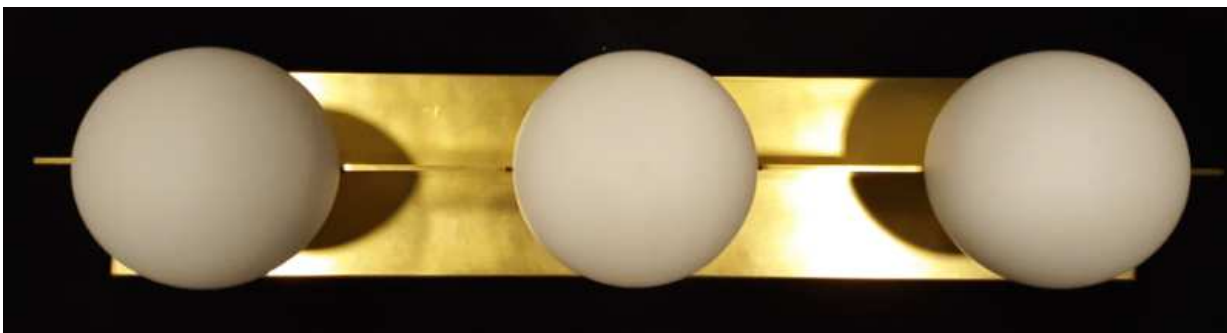
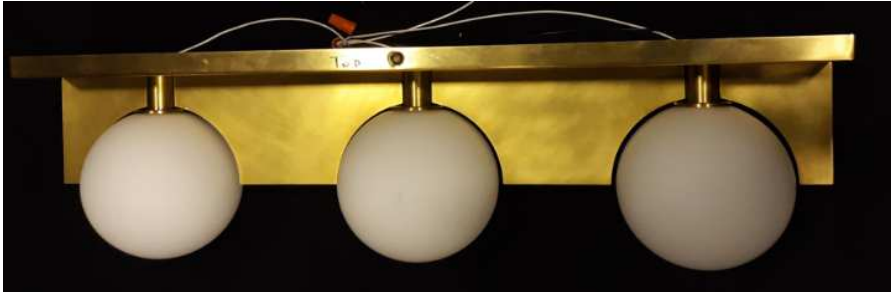
ZONE	LUMENS	% LUMINAIRE
0-30	88.5	8.0
0-40	153.0	13.7
0-60	314.6	28.3
60-90	246.6	22.2
70-100	233.8	21.0
90-120	242.6	21.8
0-90	561.2	50.4
90-180	551.7	49.6
0-180	1112.9	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	10.1	0.9
10-20	29.9	2.7
20-30	48.5	4.4
30-40	64.5	5.8
40-50	76.8	6.9
50-60	84.8	7.6
60-70	87.5	7.9
70-80	83.5	7.5
80-90	75.6	6.8
90-100	74.7	6.7
100-110	82.0	7.4
110-120	85.9	7.7
120-130	83.5	7.5
130-140	75.5	6.8
140-150	63.3	5.7
150-160	47.5	4.3
160-170	29.4	2.6
170-180	9.9	0.9

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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:

Tess Gallagher

Tess Gallagher
Engineer
Lighting Division

Report Reviewed By:

Tim Quigley

Timothy Quigley
Engineer
Lighting Division

Attachments: IES File

REVISION HISTORY

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