

GENERATION BRANDS

TEST REPORT

SCOPE OF WORK

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

MODEL NUMBER

700OWZUR93024BUNVA

REPORT NUMBER

103017649CHI-090B

ISSUE DATE

July 31, 2018

REVISION DATE

None

DOCUMENT CONTROL NUMBER

TBD

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REPORT DATE: July 31, 2018

TEST REPORT

TEST OF ONE LED WALL SCONCE

MODEL NO. 700OWZUR93024BUNVA
LED MODEL NO. CITIZEN CLU028-1203C4-303H5K2
DRIVER MODEL NO. LTF DS20W500C2040LI2D010-0000

RENDERED TO:

GENERATION BRANDS
7400 LINDER AVE.
SKOKIE, IL, 60077

AUTHORIZATION

The testing performed was authorized by signed quote number Qu-00779063-2.

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 700OWZUR93024BUNVA. The sample was received by Intertek on July 16, 2018 in undamaged condition and one sample was tested as received. The sample designation was AH07162018035546-090B.

DATE OF TESTS

July 19, 2018.

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SUMMARY

MODEL NO:	7000WZUR93024BUNVA
DESCRIPTION:	LED Wall Sconce

CRITERIA	RESULTS
Lumen Output (lumens)	1613.3
Input Power (W) @ 120 (VAC)	20.49
Lumen Efficacy (lm/W)	78.7
Input Power Factor () @ 120 (VAC)	0.767
BUG Rating	B0-U1-G1

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	10/4/2017	10/4/2018
LSI High Speed Mirror Goniometer	6440T	146928	VBV	VBV
Newport Thermohygrometer	iServer	146957	11/17/2017	11/17/2018
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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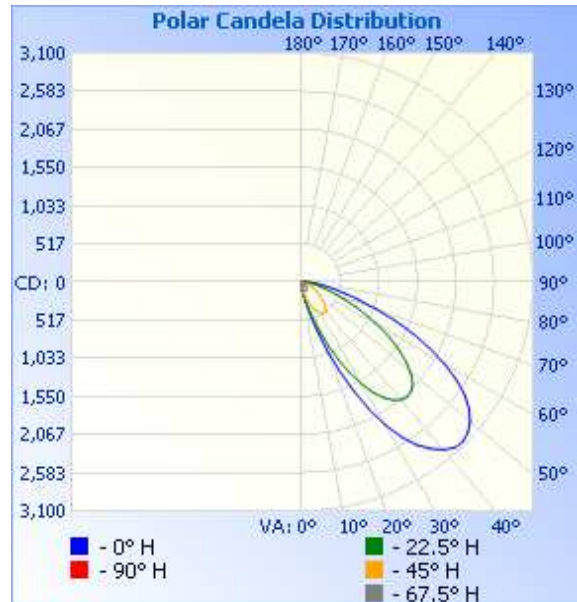
RESULTS OF TESTS

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)
AH07162018035546-090B	Base Up	120.1	222.5	20.49	0.767	1613.3	78.7

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	78	78	78	78	78
5	144	142	119	95	74
10	270	249	175	110	45
15	520	434	247	122	18
20	992	745	333	127	18
25	1601	1165	417	125	16
30	2230	1588	483	117	14
35	2694	1910	512	103	12
40	2962	2082	495	86	10
45	3055	2081	435	68	8
50	2946	1905	357	51	7
55	2673	1583	271	38	6
60	2204	1196	196	28	4
65	1639	801	135	20	3
70	1052	487	89	15	2
75	604	289	57	11	1
80	341	172	35	8	1
85	187	98	22	5	0
90	99	52	15	4	0
95	51	29	10	2	0
100	27	18	7	1	0
105	16	11	4	1	0
110	10	7	3	0	0
115	6	4	1	0	0
120	3	2	1	0	0
125	2	1	0	0	0



Luminaire Classification System (LCS)

LCS	Zone	Lumens	% Luminaire
FL	(0-30)	196	12.2
FM	(30-60)	1052	65.2
FH	(60-80)	313	19.4
FVH	(80-90)	31.6	2.0
BL	(0-30)	4.4	0.3
BM	(30-60)	1	0.1
BH	(60-80)	0.3	0.0
BVH	(80-90)	< 0.05	0.0
UL	(90-100)	9.8	0.6
UH	(100-180)	4.7	0.3
Total		1613	100.0

BUG Rating: B0-U1-G1

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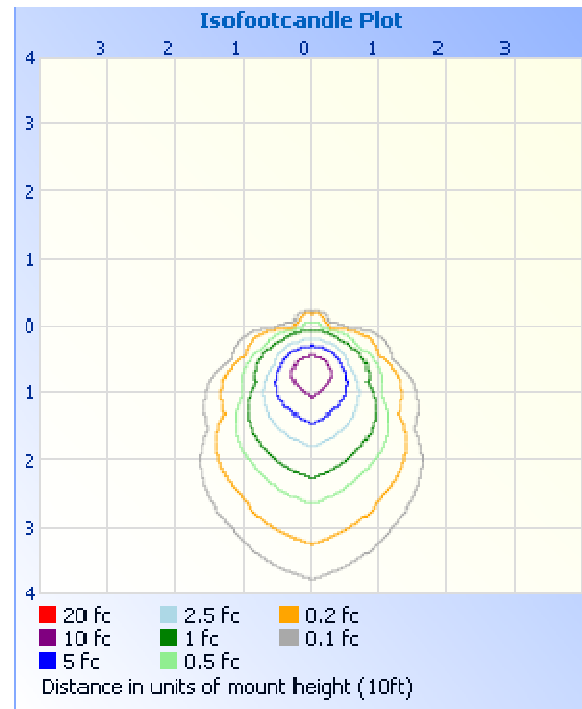
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RESULTS OF TESTS

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	201.1	12.5
0-40	503.0	31.2
0-60	1254.1	77.7
60-90	344.7	21.4
70-100	133.0	8.2
90-120	14.3	0.9
0-90	1598.8	99.1
90-180	14.5	0.9
0-180	1613.3	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	8.7	0.5
10-20	43.3	2.7
20-30	149.1	9.2
30-40	302.0	18.7
40-50	393.1	24.4
50-60	357.9	22.2
60-70	221.5	13.7
70-80	91.6	5.7
80-90	31.6	2.0
90-100	9.8	0.6
100-110	3.4	0.2
110-120	1.1	0.1
120-130	0.2	0.0

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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:

Hector Huitron
Associate Engineer
Lighting Division

Report Reviewed By:

Timothy Quigley
Engineer
Lighting Division

Attachments: IES File

REVISION HISTORY

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