



Report No:	L03170	5801	Issue Date: 3/31/2017	
Report Prepared Fo	or:	Everbrite, LLC. 4969 S. 110th Street, Greenfield, WI. 53228		
Model Number:	XLS-3.0)		
Test: Electrical a	and Photo	ometric tests		
Standards Used: Appropriate part or all test guidelines were used for test performed: <i>IESNA LM79: 2008</i> Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products <i>ANSI NEMA ANSLG C78.377: 2008</i> Specification of the Chromaticity of Solid State Lighting Products <i>ANSI C82.77:2002:</i> Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment				
Description of Sam	ple:	Client submitted the sample. Received in working and undamaged of modifications were necessary.	ondition. No	
Testing Condition:		Fixture is tested with no special conditions.		

Seasoning of Sample:	No seasonii	ng was	performed in accordance with IESNA LM-79.
Date of Tests:	3/27/17	-	3/31/17
Sample Arrival Date:	3/15/17		

Equipment List				
Equipment Used	Model No	Stock No	Calibration Due Date	
Chroma Programmable AC Source	61604	PS-AC02		
Yokogawa Digital Power Meter	WT210	MT-EL06-S1	11/28/17	
ITECH	IT6122	PS-DC03-S1	11/28/17	
Fluke Digital Thermometer	52k/J	MT-TP02-GC	11/28/17	
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC		
LLI 2M Sphere	2MR97	CD-SN03-S2		
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use	

*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.





Test Summary	
Manufacturer:	Everbrite, LLC.
Model Number:	XLS-3.0
Driver Model Number:	CUSTOM DRIVER
Total Lumens:	2003.90
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.49
Input Power (W):	27.40
Input Power Factor:	0.46
Current ATHD @ 120V(%):	87%
Current ATHD @ 277V(%):	N/A
Efficacy:	73
Color Rendering Index (CRI):	84
Correlated Color Temperature (K):	3466
Chromaticity Coordinate x:	0.4074
Chromaticity Coordinate y:	0.3920
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	1:00
Total Operating Time (Hours):	1:45



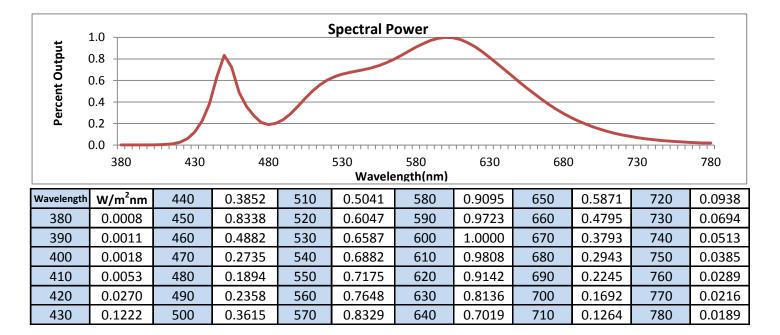


FIG. 1 LUMINAIRE

*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

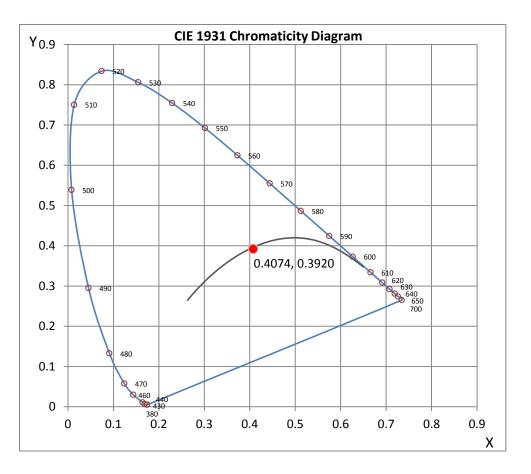






CRI & CCT

х	0.4074			
У	0.3920			
u'	0.2365			
v'	0.5121			
CRI	83.90			
ССТ	3466			
Duv	0.00010			
R Values				
R1	83.02			
R2 89.25				
R3 94.3				
R4	84.09			
R5	82.48			
R6	85.50			
R7 86.6				
R8	66.11			
R9	16.15			
R10	74.40			
R11	83.76			
R12	63.79			
R13	84.43			
R14	96.48			



*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.





Test Methods

Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Disclaimers:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by :

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Test Report Released by:

UMP

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enelizz

Steve Kang Quality Assurance

*Attached are photometric data reports. Total number of pages: 9



Photometric Test Report

IES INDOOR REPORT PHOTOMETRIC FILENAME : L031705801.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002 [TEST] L031705801 [TESTLAB] LIGHT LABORATORY, INC. [ISSUEDATE] 3/31/2017 [MANUFAC] EVERBRITE, LLC. [LUMCAT] XLS-3.0 [LUMINAIRE] RECESSED CAN LIGHT [BALLASTCAT] CUSTOM DRIVER [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS. [INPUT] 120VAC, 27.40W [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

LUMINANCE DATA (cd/sq.m)

Angle In	Average	Average	Average
Degrees	0-Deg	45-Deg	90-Deg
45	19522	19522	19522
55	11497	11497	11497
65	8728	8728	8728
75	7773	7773	7773
85	7695	7695	7695

CANDELA TABULATION

<u>0</u> 0.0 3340 1.0 3334 3.0 3300 5.0 3240 7.0 3155 9.0 3041 11.0 2899 13.0 2733 15.0 2538 17.0 2311 19.5 1982 22.5 1546 25.5 1140 29.0 753 33.0 448 37.5 261 42.5 150 47.5 97 55.0 59 65.0 33 75.0 18 85.0 6

90.0

0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	958.65	N.A.	47.80
0-30	1512.6	N.A.	75.50
0-40	1749.17	N.A.	87.30
0-60	1919.44	N.A.	95.80
0-80	1989.32	N.A.	99.30
0-90	2003.9	N.A.	100.00
10-90	1757.44	N.A.	87.70
20-40	790.53	N.A.	39.40
20-50	910.80	N.A.	45.50
40-70	213.90	N.A.	10.70
60-80	69.88	N.A.	3.50
70-80	26.24	N.A.	1.30
80-90	14.59	N.A.	0.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2003.9	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

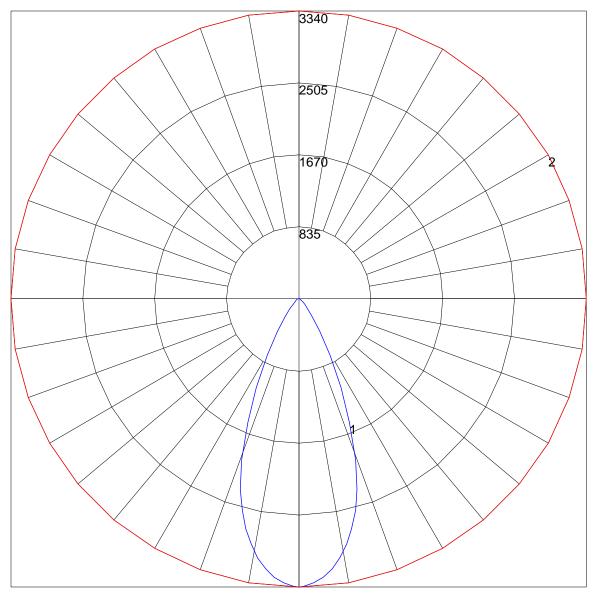
Zone	Lumens
0-10	246.47
10-20	712.18
20-30	553.95
30-40	236.58
40-50	120.27
50-60	50.00
60-70	43.63
70-80	26.24
80-90	14.59
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC 80	70	50	30	10	0
RW 70 50 30 1	0 70 50 30 10	50 30 10	50 30 10	50 30 10	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	05111 108 106 1034105 100 97936100 9489859958899588839918378749183789877873698374695837469657970656176676158766761	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	102102102 979594 918988 878482 827976 787472 747067 716764 676360 646057 615754	100 93 86 80 75 70 66 62 59 56 53

POLAR GRAPH



Maximum Candela = 3340 Located At Horizontal Angle = 0, Vertical Angle = 0 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) # 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)