

Project Number
19.00971



HUBBELL
Lighting

Date
6/7/2019

Photometric Test Report

Lab 1
Sphere

Test Sample Description

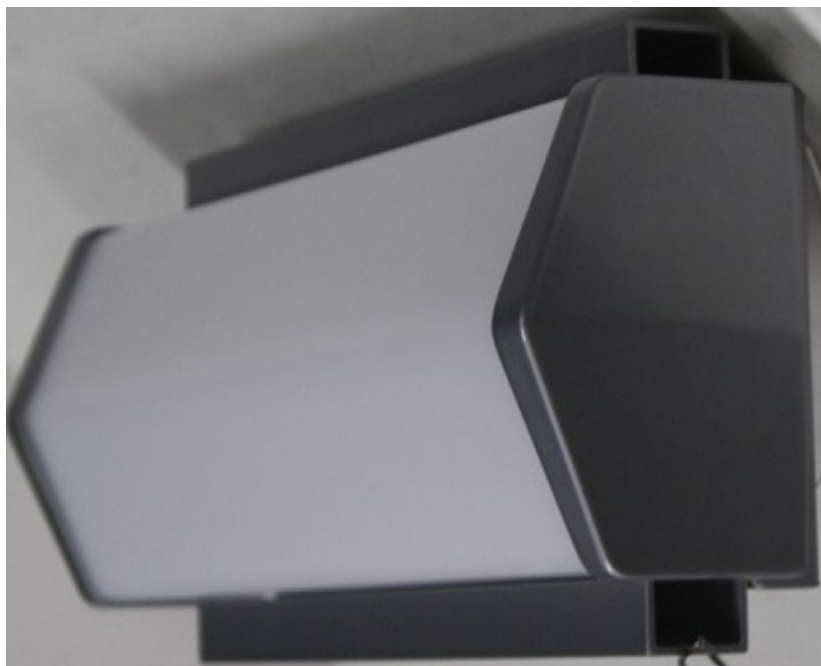
Catalog Number: P560208-082-30
Description: 13" LED Outdoor Sconce w/ Acrylic Refractor

Photometry

Test Method: IES LM-31-95
IES LM-79-08 §10
Preburn Time: 0:15
Time To Stabilize: 1:00
Total Operating Time: 3:10
Input Voltage (Volts): 120.0
Input Current (Amps): 0.091
Input Wattage (Watts): 10.9
Ambient Temp (°C): 26.1
PF @ 120V: 0.994
THD @ 120V (%): 12.6

Sphere

Test Method: IES LM-16-93
IES LM-79-08 §12.1
Preburn Time: 0:10
Time To Stabilize: 0:55
Total Operating Time: 1:40
Input Voltage (Volts): 120.1
Input Current (Amps): 0.091
Input Wattage (Watts): 10.8
Ambient Temp (°C): 24



Hubbell Lighting, Inc.

701 Millennium Boulevard
Greenville, SC 29607
www.hubbellighting.com

Checked (sphere): M.ELLMANN
Checked (photometry): D.ROBBINS
Approved: P. McCARTHY

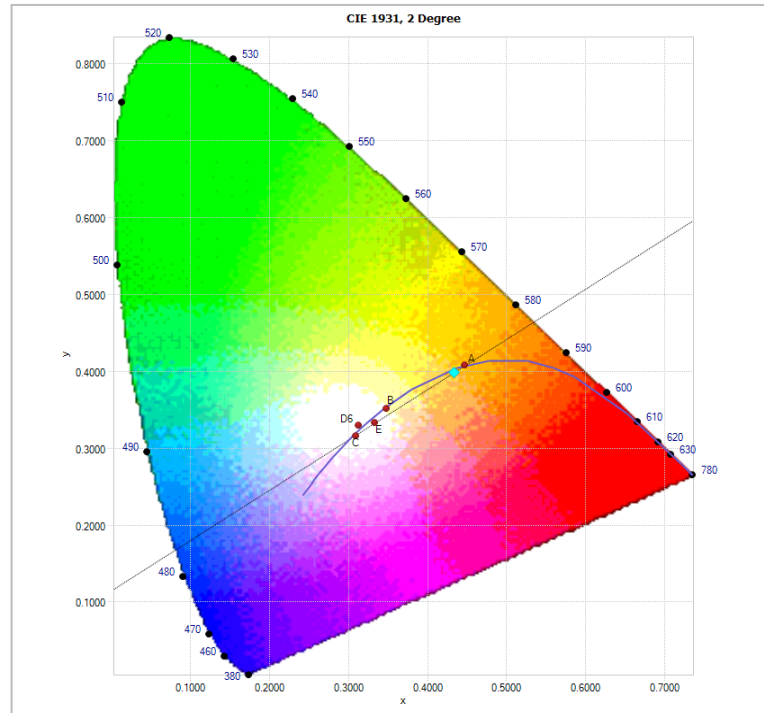




Lamp Cat#: BXEN-30G-11M-3A
 Lamp Desc: 42 - Bridgelux 3000K LEDs

Efficacy: 48.9 LPW S/P Ratio: 1.5 LM/LM

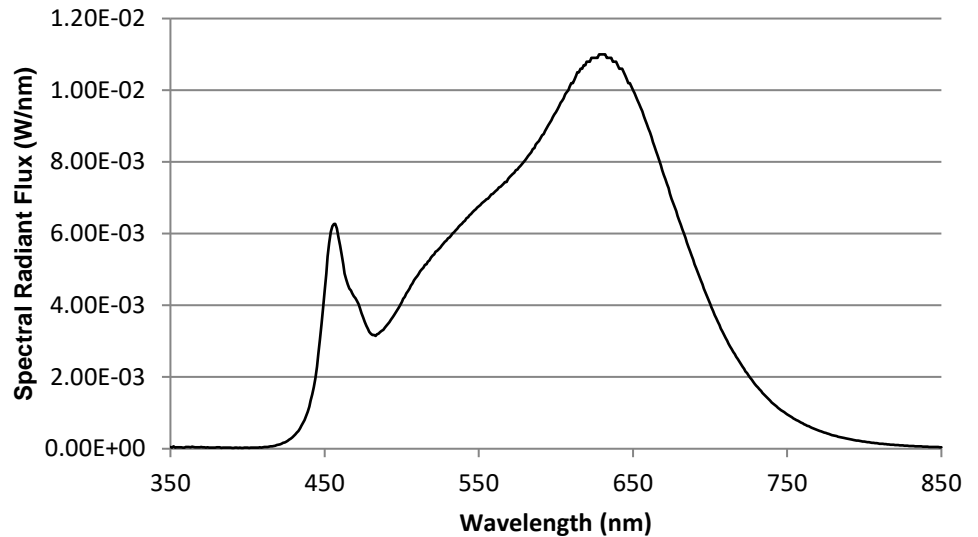
Chromaticity Diagram



Spectral Results

Name	Value	Unit
Φ	1.94	watts
Φ(v)	528	lumens
Φ(v')	786	lm'
Chrom x	0.4337	
Chrom y	0.399	
Chrom u	0.2507	
Chrom v	0.3459	
Duv	0.0017	
Chrom u'	0.2507	
Chrom v'	0.5189	
CCT	3011	K
Purity	49.9	%
λ (dom)	583.4	nm
FWHM	165.2	nm
λ (peak)	630	nm
λ (center)	604.6	nm
λ (centroid)	596.9	nm
SDCM	Cool White	
RA	96	
Corr. Coef.	0.001618338	
Correlation	0.0054	
R1	98.6	
R2	98.9	
R3	98.9	
R4	96.4	
R5	97.4	
R6	96.0	
R7	93.9	
R8	91.1	
R9	82.9	
R10	99.6	
R11	98.0	
R12	81.4	
R13	99.7	
R14	99.3	

Spectral Distribution of Radiant Flux





®

HUBBELL
Lighting

701 Millennium Blvd
Greenville, SC 29607
www.hubbellighting.com

REPORT NUMBER: 19.00971

PAGE: 3 OF 8

ISSUE DATE: 06/06/19

PREPARED FOR: PROGRESS

CATALOG NUMBER: P560208-082-30

LUMINAIRE: 13" LED Outdoor Sconce w/ Acrylic Refractor

LAMP CAT. NO.: BXEN-30G-11M-3A

LAMP: 42- Bridgelux 3000K LEDs

MOUNTING: Wall

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



HUBBELL
Lighting

701 Millennium Blvd
Greenville, SC 29607
www.hubbellighting.com

REPORT NUMBER: 19.00971
ISSUE DATE: 06/06/19
PREPARED FOR: PROGRESS
CATALOG NUMBER: P560208-082-30

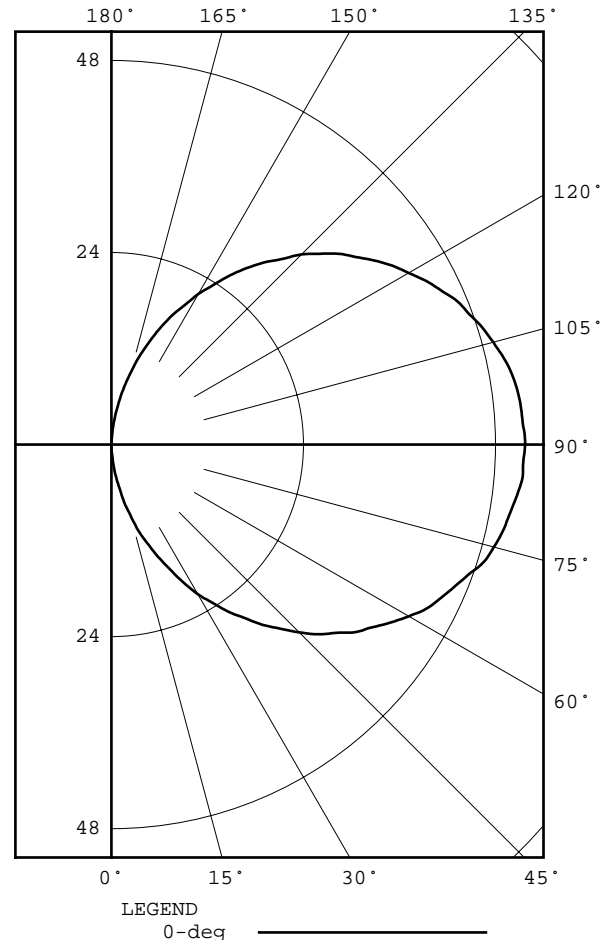
PAGE: 4 OF 8

DEG	CANDELA	LUMENS
0	0.3	
5	1.9	0
15	9.1	3
25	17.1	8
35	25.5	16
45	33.2	26
55	39.8	36
65	45.4	45
75	49.5	52
85	51.5	56
90	51.7	
95	51.4	56
105	49.4	52
115	45.5	45
125	40.1	36
135	33.6	26
145	25.8	16
155	17.7	8
165	9.3	3
175	2.0	0
180	0.0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	11	2.3
0- 40	27	5.6
0- 60	89	18.3
0- 90	242	49.9
90-120	153	31.6
90-130	189	39.1
90-150	232	47.8
90-180	243	50.1
0-180	485	100.0

EFFICACY = 44.5 lm/W
CIE TYPE - GENERAL DIFFUSE
PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 4.500 2.750
HEIGHT OF SIDE : 11.500 11.500

LUMINANCE DATA IN CANDELA/SQ M	
ANGLE AVERAGE	IN DEG
45	1654.
55	1869.
65	2076.
75	2273.
85	2450.





HUBBELL
Lighting

701 Millennium Blvd
Greenville, SC 29607
www.hubbellighting.com

REPORT NUMBER: 19.00971
ISSUE DATE: 06/06/19
PREPARED FOR: PROGRESS
CATALOG NUMBER: P560208-082-30

PAGE: 5 OF 8

CANDELA DISTRIBUTION

0.0	0.3	147.5	23.6
2.5	0.8	150.0	21.7
5.0	1.9	152.5	19.5
7.5	3.7	155.0	17.7
10.0	5.2	157.5	15.6
12.5	7.4	160.0	13.4
15.0	9.1	162.5	11.5
17.5	11.4	165.0	9.3
20.0	13.1	167.5	7.4
22.5	15.1	170.0	5.4
25.0	17.1	172.5	3.6
27.5	19.4	175.0	2.0
30.0	21.6	177.5	0.5
32.5	23.4	180.0	0.0
35.0	25.5		
37.5	27.3		
40.0	29.4		
42.5	31.2		
45.0	33.2		
47.5	35.1		
50.0	36.6		
52.5	38.5		
55.0	39.8		
57.5	41.4		
60.0	42.9		
62.5	44.4		
65.0	45.4		
67.5	46.4		
70.0	47.5		
72.5	48.8		
75.0	49.5		
77.5	50.1		
80.0	50.5		
82.5	51.0		
85.0	51.5		
87.5	51.5		
90.0	51.7		
92.0	51.6		
92.5	51.5		
95.0	51.4		
97.5	51.2		
100.0	50.8		
102.5	50.2		
105.0	49.4		
107.5	48.6		
110.0	47.6		
112.5	46.8		
115.0	45.5		
117.5	44.3		
120.0	42.9		
122.5	41.6		
125.0	40.1		
127.5	38.5		
130.0	37.1		
132.5	35.3		
135.0	33.6		
137.5	31.4		
140.0	29.7		
142.5	27.8		
145.0	25.8		



HUBBELL
Lighting

701 Millennium Blvd
Greenville, SC 29607
www.hubbellighting.com

REPORT NUMBER: 19.00971
ISSUE DATE: 06/06/19
PREPARED FOR: PROGRESS
CATALOG NUMBER: P560208-082-30

PAGE: 6 OF 8

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	0
5- 10	0
10- 15	1
15- 20	2
20- 25	3
25- 30	5
30- 35	7
35- 40	9
40- 45	12
45- 50	14
50- 55	17
55- 60	19
60- 65	22
65- 70	24
70- 75	25
75- 80	27
80- 85	28
85- 90	28
90- 95	28
95-100	28
100-105	27
105-110	25
110-115	24
115-120	22
120-125	19
125-130	17
130-135	14
135-140	12
140-145	9
145-150	7
150-155	5
155-160	3
160-165	2
165-170	1
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	0
0- 20	3
0- 30	11
0- 40	27
0- 50	53
0- 60	89
0- 70	134
0- 80	186
0- 90	242
0-100	298
0-110	350
0-120	395
0-130	431
0-140	457
0-150	474
0-160	482
0-170	485
0-180	485



HUBBELL
Lighting

701 Millennium Blvd
Greenville, SC 29607
www.hubbellighting.com

REPORT NUMBER: 19.00971
ISSUE DATE: 06/06/19
PREPARED FOR: PROGRESS
CATALOG NUMBER: P560208-082-30

PAGE: 7 OF 8

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30		10
0	107	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	92	85	79	73	84	78	72	67	64	60	56	52	48	45	40	38	35	30	30
2	81	71	62	55	74	65	57	51	53	47	42	42	37	33	32	28	25	20	20
3	73	60	51	43	66	55	46	40	45	38	33	35	30	26	26	23	19	15	15
4	66	52	42	35	59	47	39	32	39	32	26	30	25	20	23	18	15	11	11
5	60	46	36	29	54	42	33	26	34	27	21	26	21	17	20	15	12	8	8
6	55	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	7	7
7	50	36	27	20	45	33	25	19	27	20	15	21	16	12	16	11	8	5	5
8	46	32	24	18	42	30	22	16	24	18	13	19	14	10	14	10	7	4	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	9	13	9	6	4	4
10	40	27	19	13	36	24	17	12	20	14	10	16	11	8	12	8	5	3	3

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

Project Number
19.00971



HUBBELL
Lighting

Date
6/7/2019

Goniophotometer Calibration

Calibration Lamp: GE 1000W, 120V, T6, CL (FEL)

Lamp Number: ITL78966-1000-38

Calibration Current: 8.300 Amps DC

Total Luminous Flux: 25889.0 Lumens

Calibration Date: 07/10/17

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	ITL/HLI LAB 1 - Test Distance: 31.74'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27071V	10/31/2019
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	176F4E3	10/31/2019

Sphere Calibration

Calibration Lamp: EIKO 28V75W/E10

Lamp Number: SCL-1400-K136

Calibration Current: 2.679 Amps

Total Luminous Flux: 1429 Lumens

Test Equipment Used - Color & SPD; THD & Power Factor

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>3-Meter Sphere</i>	Labsphere / LMS-3M	N/A	Calibration Checked Daily
<i>Thermometer</i>	National Instruments / USB TC01	1912751	10/26/2018
<i>Power Analyzer</i>	Yokogawa / WT332	C2QA27075V	10/25/2018
<i>Power Supply</i>	Chroma / 61602	616020002113	N/A
<i>Aux Lamp Supply</i>	GWinstek PSU / 150-10	GER221028	N/A
<i>Cal Lamp Supply</i>	Labsphere / LPS-150-0268	1218148505	N/A
<i>Spectrometer</i>	Labsphere / CDS 1100	0624117792	N/A

Hubbell Lighting, Inc.

701 Millennium Boulevard
Greenville, SC 29607
www.hubbelllighting.com

This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.