



UL Verification Services
7036 Snowdrift Road Suite 200
Allentown, PA 18106
610-774-1300



Photometric Indoor Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
RBW Studio LLC
Charles Brill
98 4th St. #107
Brooklyn, NY 11231

Catalog Number
Branch Sconce Small
Project Number
10120207
Test Number
371682

Test Date

2013-11-25

Prepared By

A handwritten signature in black ink, appearing to read 'Eric M. Gaudreau'.

Eric Gaudreau, Project Coordinator

Approved By

A handwritten signature in black ink, appearing to read 'Jeffrey M. Lockner'.

Jeffrey Lockner, Engineer

The results contained in this report pertain only to the tested sample.
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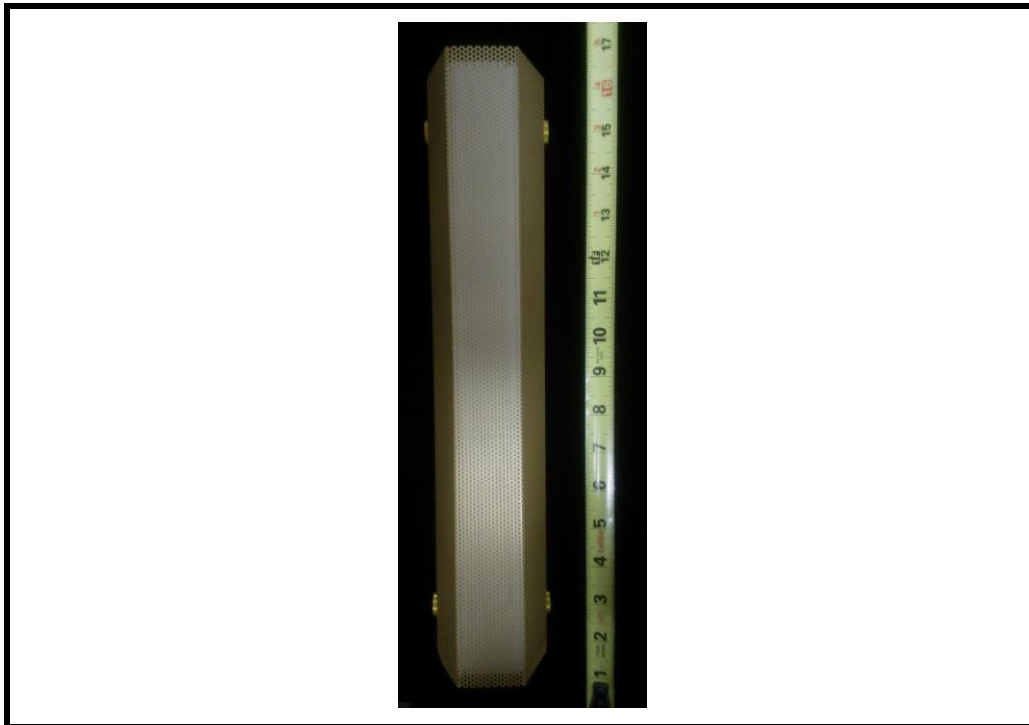
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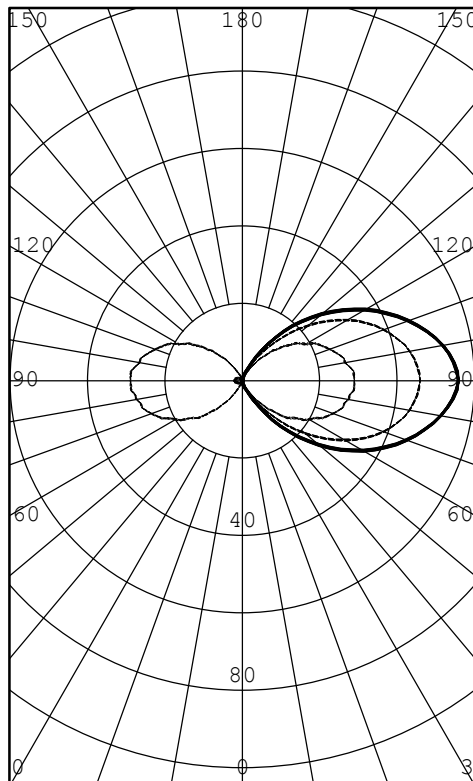


Luminaire Description: White enamel steel housing, white enamel steel reflector, frosted plastic lens
with perforated aluminum housing
Catalog Number: Branch Sconce Small
Lamp: 32 white LEDs
Mounting: Vertical
Ballast/Driver: One Inventronics LLC-040S070RSP

Luminaire

**Test Conditions**

Test Temperature:	24.0 °C
Voltage:	120.0 VAC
Current:	0.08750 A
Power:	9.530 W
Power Factor:	0.908
Frequency:	60 Hz
Current THD:	30.1 %



INTENSITY (CANDLEPOWER)				SUMMARY		OUTPUT LUMENS
ANGLE	ALONG	BEAM SIDE 67.5	45	22.5	ACROSS	
0	0	0	0	0	0	
5	0	0	0	0	0	0
15	0	1	1	1	1	0
25	1	2	3	3	3	1
35	6	8	8	8	10	3
45	11	16	16	18	21	6
55	17	24	26	28	31	12
65	23	31	35	38	41	17
75	27	37	42	45	49	21
85	29	41	45	49	55	24
90	29	42	46	49	56	
95	29	41	45	49	55	24
105	26	37	42	45	50	21
115	22	31	35	38	41	17
125	17	24	27	29	32	12
135	11	17	18	19	22	7
145	5	9	9	10	12	3
155	2	3	4	4	4	1
165	0	1	1	1	2	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

BOTH SIDES
 ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1	0.48
0-40	4	1.99
0-60	25	12.68
0-90	98	49.79
40-90	94	47.80
60-90	73	37.11
90-180	99	50.21
0-180	196	100.00

EFFICACY (LUMENS PER WATT): 20.7

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 1.750 INS
 WIDTH: 2.500 INS

LUMINANCE SUMMARY - CD./SQ.M.

BEAM SIDE			
ANGLE	ALONG	45	ACROSS
45	5511	1737	1644
55	10500	2557	2257
65	19281	3267	2783
75	36961	3812	3233
85	117913	4214	3618

TESTED IN ACCORDANCE WITH IES PROCEDURES.

BEAM SIDE
INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	67.5	45	22.5	ACROSS	AVERAGE	
0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0
10	0	0	1	0	1	0	
15	0	1	1	1	1	1	0
20	1	2	2	2	2	2	
25	1	2	3	3	3	3	1
30	3	5	5	5	6	5	
35	6	8	8	8	10	8	3
40	8	12	12	13	15	12	
45	11	16	16	18	21	16	6
50	15	20	21	23	26	21	
55	17	24	26	28	31	26	12
60	20	27	31	33	36	30	
65	23	31	35	38	41	34	17
70	25	34	39	42	45	37	
75	27	37	42	45	49	40	21
80	28	39	44	47	52	43	
85	29	41	45	49	55	44	24
90	29	42	46	49	56	45	
95	29	41	45	49	55	44	24
100	27	40	44	47	53	43	
105	26	37	42	45	50	40	21
110	24	34	39	42	46	37	
115	22	31	35	38	41	34	17
120	19	28	31	34	37	30	
125	17	24	27	29	32	26	12
130	14	20	22	24	27	22	
135	11	17	18	19	22	17	7
140	8	13	13	14	17	13	
145	5	9	9	10	12	9	3
150	3	6	6	6	7	6	
155	2	3	4	4	4	3	1
160	1	2	2	2	3	2	
165	0	1	1	1	2	1	0
170	0	0	1	1	1	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	

OPPOSITE SIDE TO BEAM
INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE					AVERAGE	OUTPUT LUMENS
	ALONG	112.5	135	157.5	ACROSS		
0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0
10	0	0	0	0	0	0	
15	0	0	0	0	0	0	0
20	1	0	0	0	0	0	
25	1	1	0	0	0	0	0
30	3	1	0	0	0	1	
35	6	2	0	0	0	1	0
40	8	3	0	0	0	2	
45	11	5	1	0	0	3	1
50	15	6	1	0	0	4	
55	17	8	1	0	0	4	2
60	20	10	1	0	0	5	
65	23	11	1	0	0	6	3
70	25	12	2	0	0	7	
75	27	13	2	0	0	7	4
80	28	14	2	0	0	7	
85	29	14	2	0	0	8	4
90	29	14	2	0	0	8	
95	29	14	2	0	0	8	4
100	27	13	2	0	0	7	
105	26	13	2	0	0	7	4
110	24	12	2	0	0	6	
115	22	10	2	0	0	6	3
120	19	9	1	0	0	5	
125	17	7	1	0	0	4	2
130	14	6	1	0	0	3	
135	11	4	1	0	0	3	1
140	8	3	0	0	0	2	
145	5	2	0	0	0	1	0
150	3	1	0	0	0	1	
155	2	1	0	0	0	0	0
160	1	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	



COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																									
0	1.151	1.151	1.151	1.15	1.071	1.071	1.071	1.07	0.990	0.990	0.990	0.99	0.830	0.830	0.83	0.690	0.690	0.69	0.560	0.560	0.56	0.50			
1	0.990	0.910	0.830	0.77	0.910	0.830	0.770	0.71	0.820	0.760	0.700	0.64	0.620	0.580	0.54	0.500	0.460	0.43	0.380	0.360	0.33	0.27			
2	0.870	0.750	0.650	0.56	0.790	0.680	0.590	0.51	0.720	0.620	0.540	0.47	0.500	0.440	0.38	0.390	0.340	0.30	0.290	0.250	0.22	0.17			
3	0.780	0.630	0.520	0.43	0.710	0.580	0.480	0.40	0.640	0.520	0.430	0.36	0.420	0.350	0.29	0.320	0.270	0.22	0.230	0.190	0.15	0.11			
4	0.700	0.540	0.430	0.35	0.640	0.500	0.390	0.32	0.570	0.450	0.360	0.29	0.360	0.290	0.23	0.280	0.220	0.17	0.200	0.160	0.12	0.08			
5	0.640	0.460	0.360	0.28	0.580	0.430	0.330	0.25	0.520	0.390	0.300	0.23	0.310	0.240	0.18	0.240	0.180	0.13	0.170	0.120	0.09	0.05			
6	0.580	0.420	0.310	0.23	0.530	0.380	0.280	0.21	0.470	0.340	0.250	0.19	0.270	0.200	0.15	0.210	0.150	0.11	0.150	0.100	0.07	0.03			
7	0.530	0.370	0.260	0.20	0.480	0.330	0.240	0.18	0.430	0.300	0.220	0.16	0.240	0.170	0.12	0.180	0.130	0.09	0.130	0.090	0.05	0.02			
8	0.490	0.330	0.230	0.16	0.440	0.300	0.210	0.15	0.400	0.270	0.190	0.13	0.220	0.150	0.10	0.170	0.110	0.07	0.120	0.070	0.04	0.02			
9	0.450	0.300	0.200	0.14	0.410	0.270	0.180	0.13	0.370	0.250	0.170	0.11	0.200	0.130	0.09	0.150	0.100	0.06	0.110	0.060	0.03	0.01			
10	0.420	0.270	0.180	0.12	0.380	0.250	0.160	0.11	0.350	0.220	0.150	0.10	0.180	0.120	0.07	0.140	0.090	0.05	0.100	0.060	0.03	0.01			

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.