



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 Medium
Project Number
10120207
Test Number
371683

Test Date

2013-11-22

Prepared By

Eric Gaudreau, Project Coordinator

Approved By

Jeffrey Lockner, Engineer

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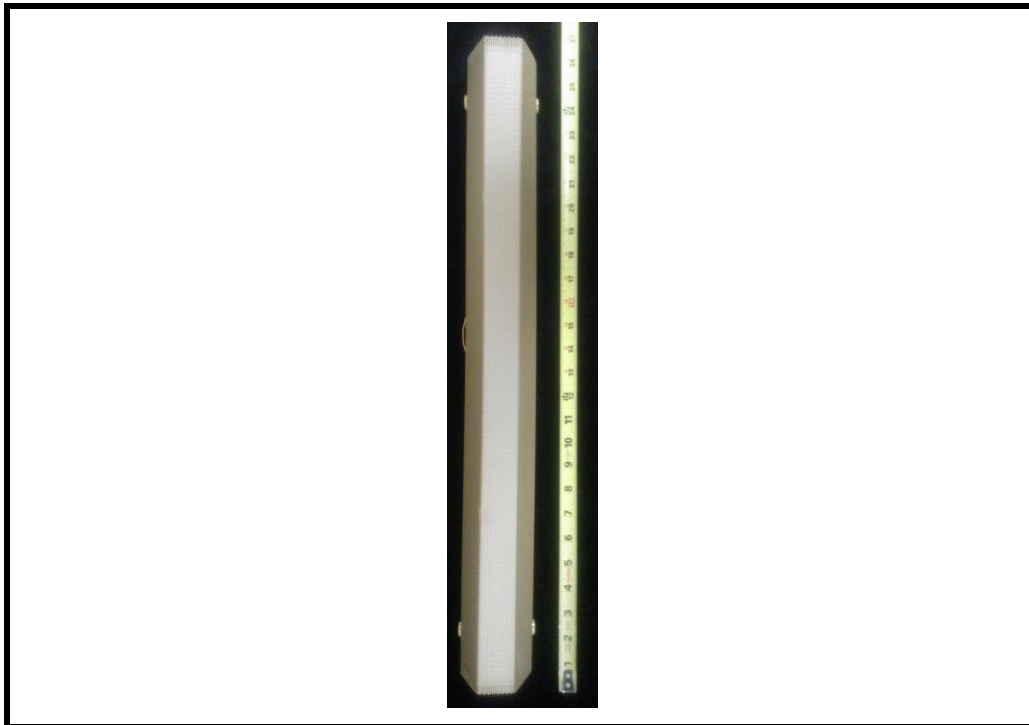
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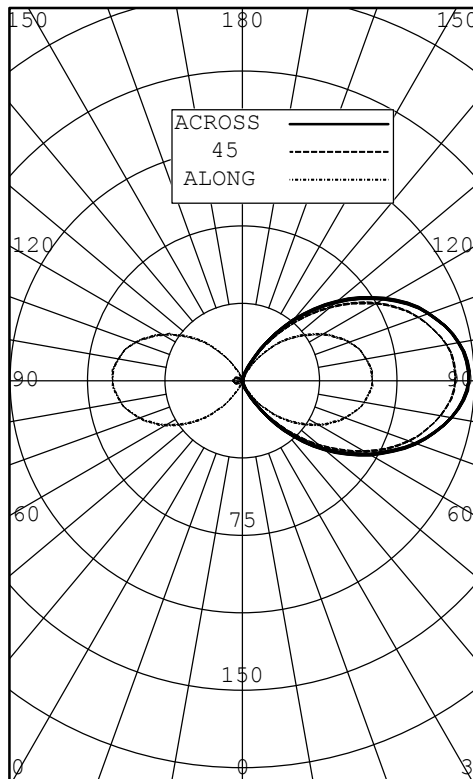


Luminaire Description: White enamel steel housing, white enamel steel reflector, frosted plastic lens
with perforated aluminum housing
Catalog Number: Branch Sconce Medium
Lamp: 64 white LEDs
Mounting: Vertical
Ballast/Driver: One Inventronics LLC-040S070RSP

Luminaire

**Test Conditions**

Test Temperature:	25.3 °C
Voltage:	120.0 VAC
Current:	0.1585 A
Power:	18.21 W
Power Factor:	0.958
Frequency:	60 Hz
Current THD:	19.9 %



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	4	5	6	7	7	2
35	13	18	19	20	22	6
45	25	34	38	41	42	14
55	37	51	59	62	62	25
65	48	66	78	81	81	36
75	57	79	92	96	97	45
85	62	88	102	105	108	52
90	63	90	103	107	110	
95	63	90	103	107	109	52
105	59	84	96	101	102	48
115	50	72	84	87	89	39
125	39	57	65	69	70	28
135	27	40	45	47	49	17
145	14	23	24	25	28	7
155	5	8	9	9	10	2
165	1	2	2	2	3	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	2	0.44
0-40	9	2.01
0-60	54	12.48
0-90	211	48.36
40-90	202	46.35
60-90	156	35.88
90-180	225	51.64
0-180	435	100.00

EFFICACY (LUMENS PER WATT): 23.9

*** 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	12526	2549	2031
55	22855	3520	2683
65	40241	4333	3242
75	78035	4951	3717
85	252133	5434	4088

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	0	0	0	0	
15	0	1	1	1	1	1	0
20	2	3	3	3	4	3	
25	4	5	6	7	7	6	2
30	7	11	12	12	13	11	
35	13	18	19	20	22	19	6
40	18	26	28	30	31	27	
45	25	34	38	41	42	37	14
50	31	42	49	51	52	46	
55	37	51	59	62	62	55	25
60	43	58	69	72	72	64	
65	48	66	78	81	81	72	36
70	53	73	86	89	89	80	
75	57	79	92	96	97	86	45
80	60	84	98	102	103	91	
85	62	88	102	105	108	95	52
90	63	90	103	107	110	97	
95	63	90	103	107	109	96	52
100	61	88	101	105	107	94	
105	59	84	96	101	102	90	48
110	55	79	91	95	96	85	
115	50	72	84	87	89	78	39
120	45	65	75	79	80	70	
125	39	57	65	69	70	61	28
130	33	49	55	58	60	52	
135	27	40	45	47	49	42	17
140	20	31	34	36	38	33	
145	14	23	24	25	28	23	7
150	8	15	16	16	18	15	
155	5	8	9	9	10	8	2
160	2	4	5	5	6	5	
165	1	2	2	2	3	2	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	2	0	0	0	0	0	
25	4	1	0	0	0	1	0
30	7	3	0	0	0	2	
35	13	4	0	0	0	3	1
40	18	7	0	0	0	4	
45	25	10	1	0	0	6	2
50	31	14	1	0	0	8	
55	37	17	2	0	0	9	4
60	43	21	2	0	0	11	
65	48	24	3	0	0	13	6
70	53	27	4	0	0	14	
75	57	29	4	0	0	15	8
80	60	31	4	0	0	16	
85	62	32	5	0	0	17	9
90	63	32	5	0	0	17	
95	63	32	5	0	0	17	9
100	61	31	4	0	0	16	
105	59	29	4	0	0	16	8
110	55	27	4	0	0	15	
115	50	24	3	0	0	13	7
120	45	21	3	0	0	12	
125	39	18	2	0	0	10	4
130	33	14	2	0	0	8	
135	27	11	1	0	0	6	2
140	20	7	1	0	0	4	
145	14	5	0	0	0	3	1
150	8	3	0	0	0	2	
155	5	2	0	0	0	1	0
160	2	1	0	0	0	0	
165	1	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	0.980	0.980	0.980	0.98	0.820	0.820	0.82	0.680	0.680	0.68	0.550	0.550	0.55	0.48			
1	0.990	0.910	0.840	0.78	0.910	0.840	0.770	0.71	0.820	0.760	0.700	0.65	0.620	0.580	0.54	0.490	0.460	0.43	0.380	0.350	0.33	0.27			
2	0.870	0.750	0.650	0.57	0.800	0.690	0.600	0.52	0.720	0.620	0.540	0.47	0.500	0.440	0.39	0.390	0.340	0.30	0.290	0.250	0.22	0.17			
3	0.780	0.640	0.530	0.44	0.710	0.580	0.480	0.40	0.640	0.520	0.440	0.37	0.420	0.350	0.29	0.320	0.270	0.22	0.230	0.190	0.16	0.11			
4	0.700	0.550	0.440	0.35	0.640	0.500	0.400	0.32	0.580	0.450	0.360	0.29	0.360	0.290	0.23	0.280	0.220	0.18	0.200	0.160	0.12	0.08			
5	0.640	0.470	0.370	0.29	0.580	0.430	0.340	0.26	0.520	0.390	0.300	0.24	0.310	0.240	0.19	0.240	0.180	0.14	0.170	0.120	0.09	0.05			
6	0.580	0.420	0.310	0.24	0.530	0.380	0.280	0.22	0.470	0.340	0.260	0.19	0.270	0.200	0.15	0.210	0.150	0.11	0.150	0.100	0.07	0.04			
7	0.530	0.370	0.270	0.20	0.480	0.340	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	0.17	0.440	0.300	0.210	0.15	0.400	0.270	0.190	0.14	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	0.190	0.13	0.370	0.250	0.170	0.12	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	0.08	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.