



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 Large
Project Number
10120207
Test Number
371684

Test Date

2013-11-22

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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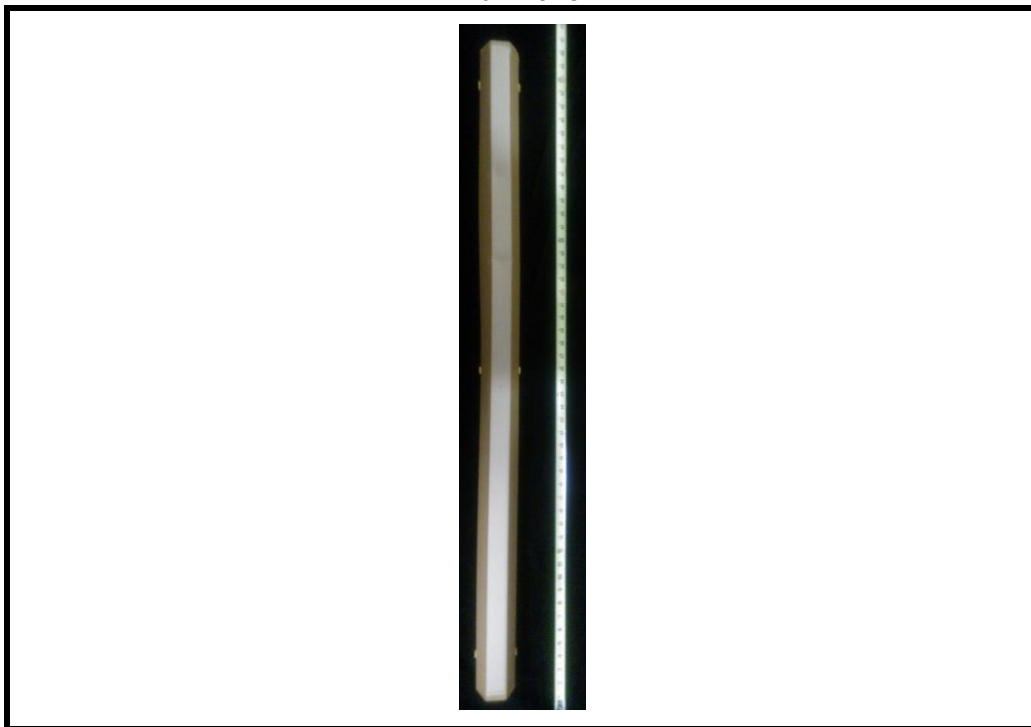


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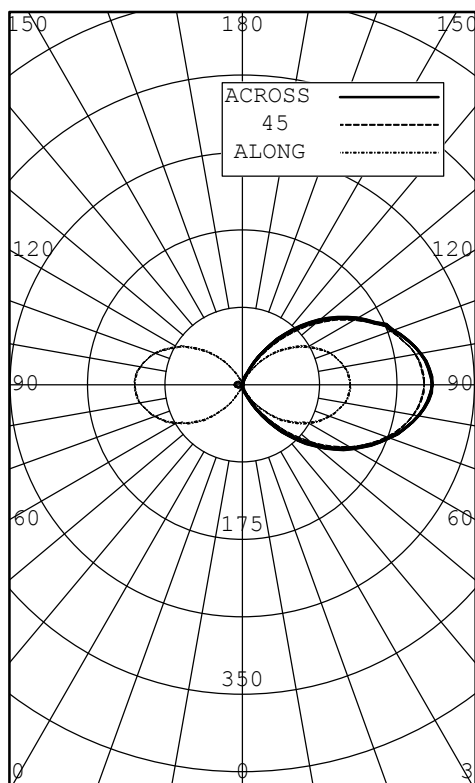
Luminaire Description: White enamel steel housing, white enamel steel reflector, frosted plastic lens with perforated aluminum housing
Catalog Number: Branch Sconce Large
Lamp: 128 white LEDs
Mounting: Vertical
Ballast/Driver: Two Inventronics LLC-040S070RSP

Luminaire



Test Conditions

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	0.3252 A
Power:	37.09 W
Power Factor:	0.950
Frequency:	60 Hz
Current THD:	19.0 %



INTENSITY (CANDLEPOWER)				SUMMARY		OUTPUT LUMENS
		BEAM SIDE				
ANGLE	ALONG	67.5	45	22.5	ACROSS	
0	0	0	0	0	0	
5	0	0	1	1	1	0
15	4	5	6	7	7	1
25	9	14	15	16	18	4
35	28	40	42	44	50	13
45	52	71	81	87	89	30
55	76	103	123	130	127	51
65	97	131	159	168	161	73
75	112	155	187	197	191	91
85	121	172	203	213	211	102
90	122	175	206	216	215	
95	121	173	204	215	212	103
105	112	159	189	201	194	93
115	96	137	165	174	166	75
125	75	108	129	137	132	54
135	51	77	88	94	94	32
145	27	45	47	50	55	15
155	8	17	18	18	21	4
165	3	5	7	7	8	1
175	0	0	0	0	0	0
180	0	0	0	0	0	

BOTH SIDES
 ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	6	0.64
0-40	21	2.42
0-60	116	13.41
0-90	429	49.46
40-90	408	47.04
60-90	313	36.06
90-180	438	50.54
0-180	868	100.00

EFFICACY (LUMENS PER WATT): 23.4

*** 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	26055	2948	2318
55	46947	3922	2905
65	81327	4682	3386
75	153350	5217	3797
85	492246	5586	4117

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	1	1	1	1	0
10	2	3	3	3	4	3	
15	4	5	6	7	7	6	1
20	6	8	10	11	11	9	
25	9	14	15	16	18	15	4
30	17	26	26	27	33	26	
35	28	40	42	44	50	41	13
40	39	56	61	65	69	59	
45	52	71	81	87	89	77	30
50	64	87	102	109	108	96	
55	76	103	123	130	127	114	51
60	87	117	142	151	144	131	
65	97	131	159	168	161	147	73
70	105	144	175	184	177	161	
75	112	155	187	197	191	173	91
80	118	165	197	207	202	182	
85	121	172	203	213	211	188	102
90	122	175	206	216	215	191	
95	121	173	204	215	212	190	103
100	117	167	199	210	205	184	
105	112	159	189	201	194	175	93
110	105	148	179	189	182	165	
115	96	137	165	174	166	152	75
120	86	123	148	156	150	136	
125	75	108	129	137	132	119	54
130	63	93	109	116	113	101	
135	51	77	88	94	94	83	32
140	39	61	67	72	75	64	
145	27	45	47	50	55	46	15
150	16	30	31	32	37	30	
155	8	17	18	18	21	17	4
160	5	9	11	12	12	10	
165	3	5	7	7	8	6	1
170	1	2	3	3	3	3	
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	2	1	0	0	0	0	
15	4	2	0	0	0	1	0
20	6	3	1	0	0	2	
25	9	5	1	0	0	3	1
30	17	7	2	0	0	4	
35	28	10	2	0	0	6	2
40	39	15	3	0	0	9	
45	52	22	4	0	0	13	5
50	64	29	5	0	0	16	
55	76	36	5	0	0	20	9
60	87	42	6	0	0	23	
65	97	48	7	0	0	26	13
70	105	53	8	0	0	28	
75	112	57	9	0	0	30	16
80	118	60	9	0	0	32	
85	121	62	9	0	0	33	18
90	122	62	9	0	0	33	
95	121	61	9	0	0	33	18
100	117	59	9	0	0	32	
105	112	56	8	0	0	30	16
110	105	52	8	0	0	28	
115	96	46	7	0	0	25	12
120	86	40	6	0	0	22	
125	75	33	5	0	0	19	9
130	63	26	4	0	0	15	
135	51	19	3	0	0	12	5
140	39	13	2	0	0	9	
145	27	8	2	0	0	6	2
150	16	6	1	0	0	4	
155	8	4	1	0	0	2	1
160	5	3	0	0	0	1	
165	3	1	0	0	0	1	0
170	1	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	0.49			
1	0.990	0.910	0.840	0.78	0.910	0.840	0.770	0.71	0.830	0.760	0.710	0.65	0.630	0.580	0.54	0.500	0.470	0.43	0.390	0.360	0.34	0.28			
2	0.870	0.750	0.650	0.57	0.800	0.690	0.600	0.52	0.720	0.630	0.540	0.48	0.510	0.440	0.39	0.400	0.350	0.31	0.300	0.260	0.23	0.17			
3	0.780	0.640	0.530	0.44	0.710	0.580	0.480	0.40	0.640	0.530	0.440	0.37	0.420	0.350	0.29	0.330	0.270	0.23	0.240	0.200	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	0.24	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	0.130	0.09	0.06			
6	0.580	0.420	0.310	0.24	0.530	0.380	0.280	0.21	0.470	0.340	0.260	0.19	0.280	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	0.190	0.130	0.09	0.130	0.090	0.05	0.03			
8	0.490	0.330	0.230	0.17	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	0.080	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	0.11	0.200	0.130	0.09	0.150	0.100	0.06	0.110	0.070	0.04	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.