



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300

Photometric Indoor Test Report

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

Prepared For
Sonneman
Nicolas Carmichael
106 Pierces Rd.
Newburgh, NY 12550-9369

Catalog Number
2318 (SLC7836)
Project Number
10517633
Test Number
781282

Test Date

2014-10-08

Prepared By

Handwritten signature of Kyle Spaziani in black ink.

Kyle Spaziani, Project Handler

Approved By

Handwritten signature of Jeff A. Smith Jr. in black ink.

Jeff Smith Jr., Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Cast aluminum housing, frosted plastic enclosure
Catalog Number: 2318 (SLC7836)
Lamp: White LEDs
Mounting: Surface - Ceiling
Ballast/Driver: One ERP ELM050W-1400-38

Luminaire

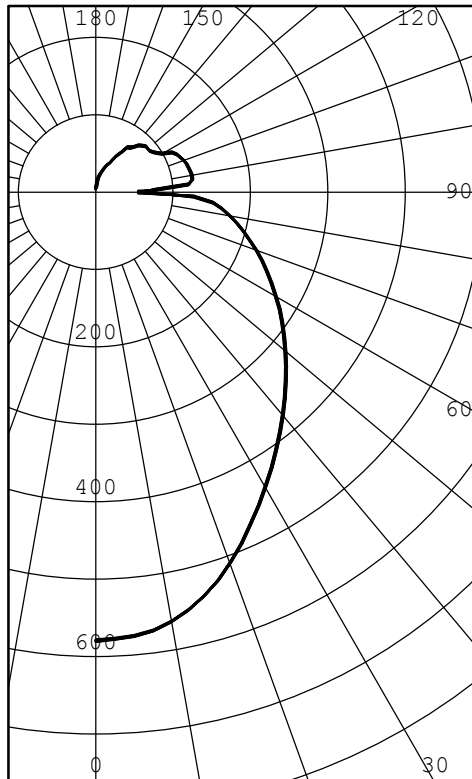


Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.4469 A
Power:	53.20 W
Power Factor:	0.992
Frequency:	60 Hz
Current THD:	12.7 %



INTENSITY (CANDLEPOWER) SUMMARY



ANGLE	MEAN CP	LMS.	ANGLE	MEAN CP	LMS.
0	579		90	55	
5	576	55	95	121	113
10	564		100	126	
15	540	152	105	125	132
20	509		110	121	
25	473	218	115	116	113
30	439		120	99	
35	407	254	125	91	82
40	376		130	88	
45	347	268	135	85	66
50	320		140	77	
55	294	263	145	71	43
60	269		150	55	
65	244	242	155	41	20
70	221		160	35	
75	198	209	165	26	8
80	176		170	19	
85	152	152	175	10	1
90	55		180	5	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	425	17.76
0-40	679	28.40
0-60	1211	50.61
0-90	1814	75.85
40-90	1135	47.45
60-90	604	25.24
90-180	578	24.15
0-180	2392	100.00

EFFICACY (LUMENS PER WATT): 45.0

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS EFFICIENCY: 47.000 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.1
 SC: 1.1

ANGLE	MEAN CD/SQ M
45	433
55	451
65	505
75	658
85	1400

TESTED IN ACCORDANCE WITH IES PROCEDURES.



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105	125	132
110	121	
115	116	113
120	99	
125	91	82
130	88	
135	85	66
140	77	
145	71	43
150	55	
155	41	20
160	35	
165	26	8
170	19	
175	10	1
180	5	



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	1.191	1.191	1.191	1.19	1.131	1.131	1.131	1.13	1.081	1.081	1.081	1.08	0.980	0.980	0.98	0.880	0.880	0.88	0.800	0.800	0.80	0.76				
1	1.071	1.010	0.950	0.91	1.010	0.960	0.910	0.87	0.960	0.910	0.870	0.83	0.830	0.790	0.76	0.750	0.720	0.69	0.670	0.650	0.63	0.59				
2	0.960	0.870	0.790	0.72	0.920	0.830	0.760	0.70	0.870	0.790	0.730	0.67	0.720	0.660	0.62	0.650	0.610	0.57	0.580	0.550	0.52	0.49				
3	0.880	0.760	0.670	0.60	0.830	0.730	0.640	0.58	0.790	0.690	0.620	0.56	0.630	0.570	0.51	0.570	0.520	0.48	0.510	0.470	0.44	0.41				
4	0.810	0.670	0.580	0.51	0.770	0.650	0.560	0.49	0.720	0.620	0.540	0.47	0.560	0.490	0.44	0.510	0.450	0.41	0.460	0.420	0.38	0.35				
5	0.740	0.600	0.500	0.43	0.700	0.570	0.480	0.42	0.660	0.550	0.470	0.40	0.500	0.430	0.38	0.450	0.400	0.35	0.410	0.370	0.33	0.30				
6	0.680	0.540	0.440	0.37	0.650	0.510	0.430	0.36	0.610	0.490	0.410	0.35	0.450	0.380	0.33	0.410	0.350	0.31	0.370	0.320	0.28	0.26				
7	0.620	0.480	0.390	0.33	0.590	0.460	0.370	0.31	0.560	0.440	0.360	0.30	0.400	0.330	0.28	0.370	0.310	0.26	0.340	0.290	0.25	0.22				
8	0.580	0.430	0.350	0.28	0.550	0.420	0.330	0.28	0.520	0.400	0.320	0.27	0.370	0.300	0.25	0.340	0.280	0.24	0.310	0.260	0.22	0.20				
9	0.540	0.400	0.310	0.25	0.510	0.380	0.300	0.24	0.490	0.360	0.290	0.24	0.330	0.270	0.22	0.310	0.250	0.21	0.280	0.230	0.19	0.17				
10	0.500	0.360	0.270	0.22	0.480	0.350	0.270	0.22	0.450	0.330	0.260	0.21	0.310	0.240	0.20	0.280	0.220	0.19	0.260	0.210	0.17	0.16				

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.