



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
Sonneman
Nicholas Carmichael
106 Pierces Rd
Newburgh, NY 12550-9369
United States

Catalog Number
3723
Project Number
10362498
Test Number
644254

Test Date

2014-06-05

Prepared By

Javier Caban

Javier Caban, Technician

Approved By

Jeff A. Smith Jr.

Jeff Smith Jr., Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Brushed Steel housing, white frosted plastic lens
Catalog Number: 3723
Lamp: 30 White LEDs
Mounting: Surface
Ballast/Driver: One Eaglerise EEP60SE

Luminaire



Test Conditions

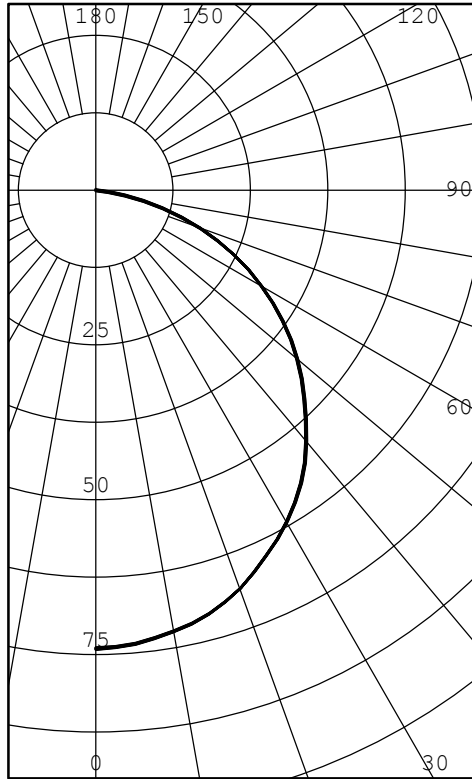
Test Temperature:	24.7 °C
Voltage:	120.1 VAC
Current:	0.1400 A
Power:	15.41 W
Power Factor:	0.918
Frequency:	60 Hz
Current THD:	32.1 %



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INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	MEAN CP	LUMENS
0	74	
5	74	7
10	72	
15	71	20
20	68	
25	65	30
30	62	
35	58	36
40	53	
45	48	37
50	43	
55	37	33
60	31	
65	25	24
70	18	
75	11	12
80	5	
85	0	1
90	0	



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	57	28.50
0-40	93	46.50
0-60	163	81.30
0-90	200	100.00
40-90	107	53.50
60-90	37	18.70
90-180	0	0.00
0-180	200	100.00

EFFICACY (LUMENS PER WATT): 13.0

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS DIAMETER: 6.000 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.2
 SC: 1.2

ANGLE	MEAN CD/SQ M
45	3709
55	3542
65	3206
75	2387
85	157

TESTED IN ACCORDANCE WITH IES PROCEDURES.



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INTENSITY (CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	INTENSITY (CANDLEPOWER)	LUMENS
0.0	74	
2.5	74	
5.0	74	7
7.5	73	
10.0	72	
12.5	72	
15.0	71	20
17.5	70	
20.0	68	
22.5	67	
25.0	65	30
27.5	64	
30.0	62	
32.5	60	
35.0	58	36
37.5	55	
40.0	53	
42.5	50	
45.0	48	37
47.5	45	
50.0	43	
52.5	40	
55.0	37	33
57.5	34	
60.0	31	
62.5	28	
65.0	25	24
67.5	21	
70.0	18	
72.5	15	
75.0	11	12
77.5	8	
80.0	5	
82.5	2	
85.0	0	1
87.5	0	
90.0	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	1.221	.221	.221	.22	1.191	.191	.191	.19	1.161	.161	.161	.16	1.111	.111	.111	.11	1.061	.061	.061	.06	1.021	.021	.021	.02	1.00
	1	1.131	.081	.041	.00	1.101	.061	.020	.99	1.081	.041	.000	.97	1.000	.970	.94	0.960	.930	.91	0.920	.900	.89	0.87			
	2	1.040	.960	.900	.84	1.010	.940	.880	.83	0.990	.920	.870	.82	0.890	.840	.80	0.860	.820	.78	0.830	.790	.77	0.75			
	3	0.950	.850	.770	.71	0.930	.830	.760	.70	0.910	.820	.750	.70	0.790	.730	.68	0.760	.710	.67	0.740	.700	.66	0.64			
	4	0.880	.760	.670	.61	0.860	.750	.670	.61	0.840	.740	.660	.60	0.710	.650	.59	0.690	.630	.59	0.670	.620	.58	0.56			
	5	0.810	.680	.590	.52	0.790	.670	.580	.52	0.770	.660	.580	.52	0.640	.570	.51	0.620	.560	.51	0.600	.550	.50	0.48			
	6	0.750	.610	.520	.46	0.730	.600	.520	.46	0.710	.590	.510	.45	0.570	.500	.45	0.560	.490	.44	0.540	.480	.44	0.42			
	7	0.680	.550	.460	.40	0.670	.540	.450	.40	0.650	.530	.450	.39	0.510	.440	.39	0.500	.430	.38	0.490	.430	.38	0.36			
	8	0.630	.490	.410	.35	0.620	.490	.410	.35	0.610	.480	.400	.35	0.470	.400	.34	0.460	.390	.34	0.440	.380	.34	0.32			
	9	0.590	.450	.360	.31	0.570	.440	.360	.31	0.560	.440	.360	.31	0.420	.350	.30	0.410	.350	.30	0.400	.340	.30	0.28			
	10	0.540	.410	.320	.27	0.530	.400	.320	.27	0.520	.400	.320	.27	0.390	.320	.27	0.380	.310	.27	0.370	.310	.27	0.25			

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.