



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
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106 Pierces Rd.
Newburgh, NY 12550-9369
United States

Catalog Number
2340
Project Number
10362498
Test Number
644262

Test Date

2014-06-12

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: White aluminum housing, frosted plastic lens
Catalog Number: 2340
Lamp: One linear array
Mounting: Pendant
Ballast/Driver: One ERP EBR010U-0250-42

Luminaire

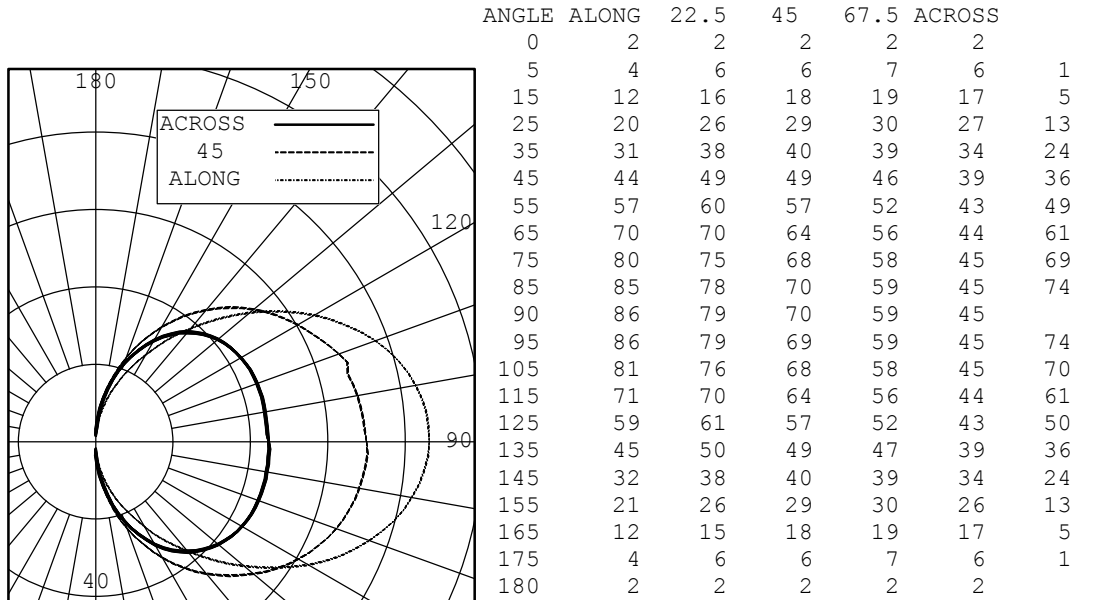


Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.07280 A
Power:	8.618 W
Power Factor:	0.986
Frequency:	60 Hz
Current THD:	12.5 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	18	2.78
0-40	42	6.33
0-60	127	19.15
0-90	331	49.86
40-90	289	43.53
60-90	204	30.71
90-180	333	50.14
0-180	664	100.00

EFFICACY (LUMENS PER WATT): 77.2

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 0.625 INS
 WIDTH: 1.000 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 6.7
 SC (ALONG): 8.3, SC (ACROSS): 6.7

ANGLE	ALONG	45	ACROSS
45	152578	9704	5611
55	245835	9936	5313
65	409968	10109	5036
75	763454	10220	4812
85	2426801	10355	4701

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE					AVERAGE	OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS		
0	2	2	2	2	2	2	
5	4	6	6	7	6	6	1
10	8	11	12	13	12	11	
15	12	16	18	19	17	17	5
20	16	21	24	24	22	22	
25	20	26	29	30	27	27	13
30	26	32	35	35	31	32	
35	31	38	40	39	34	37	24
40	37	44	45	43	37	42	
45	44	49	49	46	39	47	36
50	50	55	53	50	41	51	
55	57	60	57	52	43	55	49
60	64	64	61	54	44	58	
65	70	70	64	56	44	61	61
70	75	72	66	57	45	64	
75	80	75	68	58	45	66	69
80	83	77	69	58	45	67	
85	85	78	70	59	45	68	74
90	86	79	70	59	45	68	
95	86	79	69	59	45	68	74
100	84	78	69	58	45	67	
105	81	76	68	58	45	66	70
110	77	73	67	57	44	64	
115	71	70	64	56	44	62	61
120	65	66	60	54	43	59	
125	59	61	57	52	43	55	50
130	52	56	53	50	41	51	
135	45	50	49	47	39	47	36
140	38	44	44	43	37	42	
145	32	38	40	39	34	38	24
150	26	32	34	35	30	32	
155	21	26	29	30	26	27	13
160	16	20	23	24	22	22	
165	12	15	18	19	17	16	5
170	8	10	12	13	11	11	
175	4	6	6	7	6	6	1
180	2	2	2	2	2	2	



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	1.010	0.930	0.870	0.81	0.930	0.860	0.800	0.75	0.850	0.790	0.740	0.68	0.650	0.610	0.58	0.530	0.500	0.47	0.410	0.390	0.37	0.31			
2	0.890	0.780	0.690	0.61	0.820	0.720	0.640	0.56	0.750	0.660	0.580	0.52	0.540	0.480	0.43	0.430	0.390	0.35	0.330	0.300	0.27	0.22			
3	0.800	0.670	0.560	0.48	0.730	0.610	0.520	0.44	0.660	0.560	0.470	0.41	0.460	0.390	0.34	0.360	0.310	0.27	0.270	0.240	0.20	0.16			
4	0.730	0.580	0.470	0.39	0.660	0.530	0.440	0.36	0.600	0.490	0.400	0.33	0.400	0.330	0.27	0.310	0.260	0.22	0.240	0.200	0.16	0.12			
5	0.660	0.500	0.400	0.32	0.600	0.460	0.370	0.30	0.540	0.420	0.340	0.27	0.340	0.280	0.22	0.270	0.220	0.18	0.200	0.160	0.13	0.09			
6	0.600	0.440	0.340	0.27	0.550	0.410	0.310	0.25	0.500	0.370	0.290	0.22	0.300	0.230	0.18	0.240	0.180	0.14	0.180	0.140	0.10	0.07			
7	0.550	0.390	0.290	0.23	0.500	0.360	0.270	0.21	0.450	0.330	0.250	0.19	0.270	0.200	0.15	0.210	0.160	0.12	0.160	0.120	0.08	0.06			
8	0.500	0.350	0.260	0.19	0.460	0.320	0.240	0.18	0.420	0.290	0.220	0.16	0.240	0.180	0.13	0.190	0.140	0.10	0.140	0.100	0.07	0.04			
9	0.470	0.320	0.220	0.16	0.430	0.290	0.210	0.15	0.390	0.270	0.190	0.14	0.220	0.150	0.11	0.170	0.120	0.08	0.130	0.090	0.06	0.03			
10	0.430	0.290	0.200	0.14	0.400	0.260	0.180	0.13	0.360	0.240	0.170	0.12	0.200	0.140	0.09	0.160	0.110	0.07	0.120	0.080	0.05	0.03			

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.