



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
Simkar Corporation
Andre Duljas
700 Ramona Ave.
Philadelphia, PA 19120

Catalog Number
LEDUC12
Project Number
10211748
Test Number
474185

Test Date

2014-02-06

Prepared By

Handwritten signature of Jeff A. Smith Jr.

Jeff Smith Jr., Project Handler

Approved By

Handwritten signature of Eric M. Gaudreau.

Eric Gaudreau, Engineering Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White enamel aluminum housing, clear plastic lens
Catalog Number: LEDUC12
Lamp: 16 white LEDs
Mounting: Surface
Ballast/Driver: One Eaglerise ENP012C0350LED1P

Luminaire

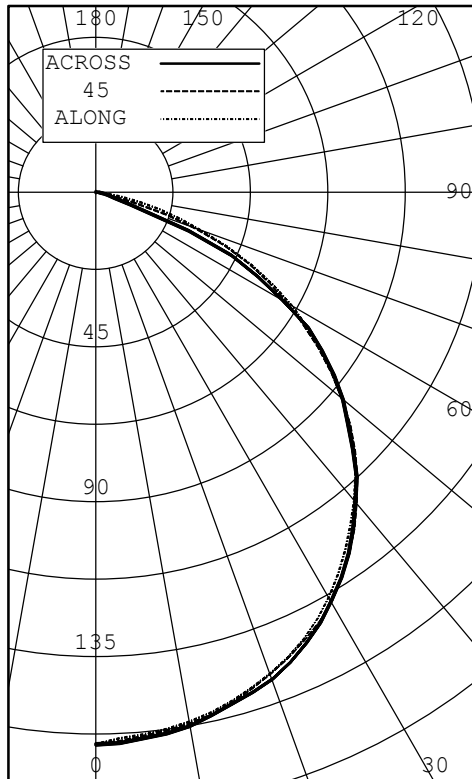


Test Conditions

Test Temperature:	25.3 °C
Voltage:	120.0 VAC
Current:	0.05169 A
Power:	6.070 W
Power Factor:	0.974
Frequency:	60 Hz
Current THD:	13.1 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	161	161	161	161	161	
5	158	159	159	160	159	15
10	156	157	157	158	158	
15	153	154	154	154	154	43
20	149	150	149	151	151	
25	143	144	144	145	145	66
30	136	136	137	138	137	
35	127	128	128	128	128	80
40	117	118	118	117	117	
45	106	107	107	106	106	82
50	94	95	94	92	94	
55	80	81	79	79	80	71
60	66	66	64	64	63	
65	50	51	49	44	44	46
70	33	34	31	20	11	
75	19	20	11	4	4	14
80	7	7	3	3	3	
85	1	1	1	1	1	1
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	125	29.86
0-40	205	48.91
0-60	357	85.36
0-90	419	100.00
40-90	214	51.09
60-90	61	14.64
90-180	0	0.00
0-180	419	100.00

EFFICACY (LUMENS PER WATT): 68.6

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 1.250 INS
 WIDTH: 11.750 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
 SC: 1.3

ANGLE	ALONG	45	ACROSS
45	15857	15955	15842
55	14709	14581	14830
65	12547	12291	10928
75	7889	4613	1800
85	847	1031	1337

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	161	161	161	161	161	161	
2.5	159	160	160	161	160	160	
5.0	158	159	159	160	159	159	15
7.5	157	158	158	159	159	158	
10.0	156	157	157	158	158	157	
12.5	155	156	156	156	156	156	
15.0	153	154	154	154	154	154	43
17.5	151	152	151	152	152	152	
20.0	149	150	149	151	151	150	
22.5	146	147	146	148	148	147	
25.0	143	144	144	145	145	144	66
27.5	140	140	141	141	141	141	
30.0	136	136	137	138	137	137	
32.5	131	132	133	133	133	132	
35.0	127	128	128	128	128	128	80
37.5	122	123	123	123	123	123	
40.0	117	118	118	117	117	118	
42.5	112	113	112	111	112	112	
45.0	106	107	107	106	106	106	82
47.5	100	101	100	99	99	100	
50.0	94	95	94	92	94	93	
52.5	87	88	87	86	87	87	
55.0	80	81	79	79	80	80	71
57.5	73	73	71	72	73	72	
60.0	66	66	64	64	63	65	
62.5	58	58	57	54	53	56	
65.0	50	51	49	44	44	48	46
67.5	42	42	40	35	29	38	
70.0	33	34	31	20	11	27	
72.5	26	26	22	7	6	18	
75.0	19	20	11	4	4	12	14
77.5	13	14	4	3	3	7	
80.0	7	7	3	3	3	4	
82.5	3	3	2	2	2	2	
85.0	1	1	1	1	1	1	1
87.5	0	0	0	0	0	0	
90.0	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	1.221	1.221	1.221	1.221	1.191	1.191	1.191	1.191	1.161	1.161	1.161	1.161	1.111	1.111	1.111	1.111	1.061	1.061	1.061	1.061	1.021	1.021	1.021	1.021	1.00
1	1.131	1.091	1.051	1.021	1.111	1.071	1.031	1.00	1.081	1.051	1.010	0.98	1.000	0.980	0.95	0.960	0.940	0.92	0.930	0.910	0.90	0.90	0.90	0.90	0.88
2	1.050	0.980	0.920	0.86	1.020	0.960	0.900	0.85	1.000	0.940	0.880	0.84	0.900	0.860	0.82	0.870	0.840	0.80	0.840	0.810	0.79	0.79	0.79	0.79	0.77
3	0.960	0.870	0.790	0.73	0.940	0.850	0.780	0.73	0.920	0.840	0.770	0.72	0.810	0.750	0.71	0.780	0.740	0.69	0.760	0.720	0.68	0.68	0.68	0.68	0.66
4	0.890	0.780	0.690	0.63	0.870	0.770	0.690	0.63	0.850	0.750	0.680	0.62	0.730	0.670	0.62	0.710	0.650	0.61	0.690	0.640	0.60	0.60	0.60	0.60	0.58
5	0.830	0.700	0.610	0.55	0.800	0.690	0.600	0.54	0.780	0.680	0.600	0.54	0.650	0.590	0.54	0.640	0.580	0.53	0.620	0.570	0.52	0.52	0.52	0.52	0.51
6	0.760	0.630	0.540	0.48	0.740	0.620	0.530	0.47	0.720	0.610	0.530	0.47	0.590	0.520	0.47	0.570	0.510	0.46	0.560	0.500	0.46	0.46	0.46	0.46	0.44
7	0.690	0.560	0.470	0.42	0.680	0.550	0.470	0.41	0.660	0.540	0.460	0.41	0.530	0.460	0.41	0.510	0.450	0.40	0.500	0.440	0.40	0.40	0.40	0.40	0.38
8	0.640	0.510	0.420	0.36	0.630	0.500	0.420	0.36	0.620	0.490	0.410	0.36	0.480	0.410	0.36	0.470	0.400	0.36	0.460	0.400	0.35	0.35	0.35	0.35	0.34
9	0.600	0.460	0.380	0.32	0.580	0.450	0.370	0.32	0.570	0.450	0.370	0.32	0.430	0.360	0.32	0.420	0.360	0.31	0.410	0.360	0.31	0.31	0.31	0.31	0.29
10	0.550	0.420	0.330	0.28	0.540	0.410	0.330	0.28	0.530	0.410	0.330	0.28	0.400	0.330	0.28	0.390	0.320	0.28	0.380	0.320	0.28	0.28	0.28	0.28	0.26

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.