



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
LEDUC18
Project Number
10211748
Test Number
474054

Test Date

2014-02-06

Prepared By

Handwritten signature of Tammy Lacey in black ink.

Tammy Lacey, Administrative Assistant II

Approved By

Handwritten signature of Eric M. Gaudreau in black ink.

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: LEDUC18
Lamp: 24 white LEDs
Mounting: Surface
Ballast/Driver: One Eaglerise ENP012C0350LED1P

Luminaire

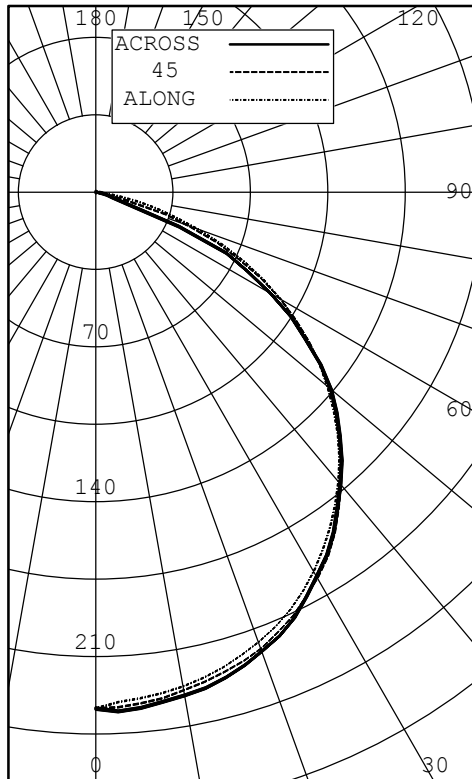


Test Conditions

Test Temperature:	25.6 °C
Voltage:	120.0 VAC
Current:	0.07539 A
Power:	8.564 W
Power Factor:	0.945
Frequency:	60 Hz
Current THD:	30.7 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	234	234	234	234	234	
5	230	232	232	233	234	22
10	227	229	229	229	231	
15	223	224	225	226	227	63
20	216	218	219	219	221	
25	208	210	211	211	213	97
30	198	200	201	200	200	
35	185	187	188	187	188	117
40	171	173	172	171	172	
45	155	157	156	155	156	120
50	137	139	138	137	139	
55	117	118	118	116	116	104
60	97	96	96	93	91	
65	74	74	71	65	65	68
70	51	51	46	25	13	
75	29	29	14	6	6	20
80	11	10	4	4	4	
85	2	1	2	2	2	2
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	183	29.78
0-40	299	48.82
0-60	523	85.34
0-90	613	100.00
40-90	314	51.18
60-90	90	14.66
90-180	0	0.00
0-180	613	100.00

EFFICACY (LUMENS PER WATT): 71.3

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 1.250 INS
 WIDTH: 17.750 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
 SC: 1.3

ANGLE	ALONG	45	ACROSS
45	15293	15495	15480
55	14298	14390	14139
65	12306	11777	10835
75	7719	3756	1639
85	1242	1205	1408

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	234	234	234	234	234	234	
2.5	231	233	233	233	235	233	
5.0	230	232	232	233	234	232	22
7.5	229	231	231	231	233	231	
10.0	227	229	229	229	231	229	
12.5	225	227	227	228	230	227	
15.0	223	224	225	226	227	225	63
17.5	220	221	222	223	224	222	
20.0	216	218	219	219	221	219	
22.5	213	214	215	215	217	215	
25.0	208	210	211	211	213	211	97
27.5	203	205	206	206	206	206	
30.0	198	200	201	200	200	200	
32.5	191	194	195	193	194	194	
35.0	185	187	188	187	188	187	117
37.5	178	180	180	179	180	180	
40.0	171	173	172	171	172	172	
42.5	163	165	165	163	165	164	
45.0	155	157	156	155	156	156	120
47.5	146	148	147	146	148	147	
50.0	137	139	138	137	139	138	
52.5	127	128	128	127	128	128	
55.0	117	118	118	116	116	117	104
57.5	107	107	107	104	105	106	
60.0	97	96	96	93	91	95	
62.5	86	85	84	79	78	82	
65.0	74	74	71	65	65	70	68
67.5	63	63	59	54	41	57	
70.0	51	51	46	25	13	38	
72.5	39	40	33	8	8	26	
75.0	29	29	14	6	6	17	20
77.5	20	20	5	5	5	10	
80.0	11	10	4	4	4	6	
82.5	6	4	3	3	3	3	
85.0	2	1	2	2	2	2	2
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	50	30	10	50	30
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	.091	.051	.02	1.111	.071	.031	.00	1.081	.051	.010	.98	1.000	.980	.95	0.970	.950	.93	0.930	.910	.90	0.88						
	2	1.050	.980	.920	.86	1.020	.960	.900	.85	1.000	.940	.880	.84	0.900	.860	.82	0.870	.840	.80	0.840	.810	.79	0.77						
	3	0.960	.870	.790	.73	0.940	.850	.780	.73	0.920	.840	.770	.72	0.810	.750	.71	0.780	.740	.70	0.760	.720	.68	0.66						
	4	0.890	.780	.690	.63	0.870	.770	.690	.63	0.850	.750	.680	.62	0.730	.670	.62	0.710	.650	.61	0.690	.640	.60	0.58						
	5	0.830	.700	.610	.55	0.800	.690	.600	.54	0.780	.680	.600	.54	0.650	.590	.54	0.640	.580	.53	0.620	.570	.52	0.51						
	6	0.760	.630	.540	.48	0.740	.620	.530	.47	0.720	.610	.530	.47	0.590	.520	.47	0.570	.510	.46	0.560	.500	.46	0.44						
	7	0.690	.560	.470	.42	0.680	.550	.470	.41	0.660	.540	.460	.41	0.530	.460	.41	0.510	.450	.40	0.500	.440	.40	0.38						
	8	0.640	.510	.420	.37	0.630	.500	.420	.36	0.620	.490	.420	.36	0.480	.410	.36	0.470	.400	.36	0.460	.400	.35	0.34						
	9	0.600	.460	.380	.32	0.580	.450	.370	.32	0.570	.450	.370	.32	0.440	.370	.32	0.430	.360	.31	0.410	.360	.31	0.29						
	10	0.550	.420	.330	.28	0.540	.410	.330	.28	0.530	.410	.330	.28	0.400	.330	.28	0.390	.320	.28	0.380	.320	.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.