



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  
LEDUC24  
Project Number  
10211748  
Test Number  
474053

Test Date

2014-02-07

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: LEDUC24  
Lamp: 32 white LEDs  
Mounting: Surface  
Ballast/Driver: One Eaglerise ENP012C0350LED1P

Luminaire

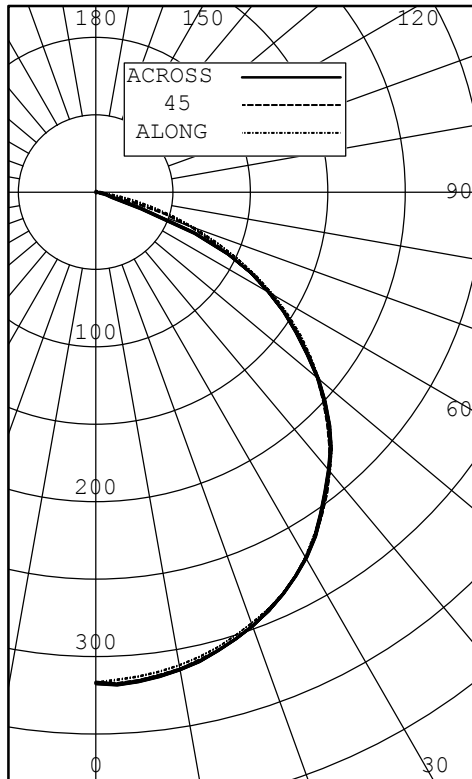


#### Test Conditions

Test Temperature:	25.3 °C
Voltage:	120.0 VAC
Current:	0.09982 A
Power:	10.99 W
Power Factor:	0.918
Frequency:	60 Hz
Current THD:	41.8 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	317	317	317	317	317	
5	314	313	317	316	317	30
10	310	309	313	312	313	
15	304	303	306	305	307	86
20	296	295	297	297	298	
25	286	283	286	286	286	131
30	271	270	272	272	272	
35	254	252	255	254	254	158
40	235	233	235	233	234	
45	214	212	211	212	213	163
50	188	188	187	186	187	
55	162	162	160	155	158	142
60	133	133	128	125	129	
65	101	101	96	95	94	95
70	68	69	65	49	31	
75	39	39	26	9	9	29
80	15	15	5	5	5	
85	2	2	2	3	3	3
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	248	29.57
0-40	406	48.47
0-60	711	84.87
0-90	837	100.00
40-90	431	51.53
60-90	127	15.13
90-180	0	0.00
0-180	837	100.00

EFFICACY (LUMENS PER WATT): 76.1

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS LENGTH: 1.250 INS  
 WIDTH: 23.750 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3  
 SC: 1.3

ANGLE	ALONG	45	ACROSS
45	15778	15668	15809
55	14709	14619	14450
65	12477	11845	11682
75	7837	5241	1812
85	1287	1321	1653

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	317	317	317	317	317	317	
2.5	315	315	318	317	318	316	
5.0	314	313	317	316	317	315	30
7.5	313	311	315	314	316	314	
10.0	310	309	313	312	313	311	
12.5	308	306	309	309	310	308	
15.0	304	303	306	305	307	305	86
17.5	300	300	302	301	302	301	
20.0	296	295	297	297	298	296	
22.5	291	289	292	291	293	291	
25.0	286	283	286	286	286	285	131
27.5	279	277	279	279	280	279	
30.0	271	270	272	272	272	271	
32.5	263	261	264	264	264	263	
35.0	254	252	255	254	254	254	158
37.5	245	242	245	243	244	244	
40.0	235	233	235	233	234	234	
42.5	225	223	224	222	225	223	
45.0	214	212	211	212	213	212	163
47.5	201	200	199	199	201	200	
50.0	188	188	187	186	187	187	
52.5	175	175	174	171	173	174	
55.0	162	162	160	155	158	159	142
57.5	148	148	144	140	144	144	
60.0	133	133	128	125	129	129	
62.5	117	117	111	110	114	113	
65.0	101	101	96	95	94	97	95
67.5	85	86	80	75	69	79	
70.0	68	69	65	49	31	58	
72.5	53	53	47	17	11	37	
75.0	39	39	26	9	9	24	29
77.5	27	27	8	7	7	15	
80.0	15	15	5	5	5	9	
82.5	7	6	4	4	4	5	
85.0	2	2	2	3	3	2	3
87.5	0	1	1	1	1	1	
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	.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	0.960	.940	.92	0.930	.910	.90	0.88				
2	1.050	.970	.910	.86	1.020	.960	.900	.85	1.000	.940	.880	.84	0.900	.860	.82	0.870	.830	.80	0.840	.810	.78	0.76				
3	0.960	.860	.790	.73	0.940	.850	.780	.72	0.920	.830	.770	.72	0.810	.750	.70	0.780	.730	.69	0.760	.720	.68	0.66				
4	0.890	.780	.690	.63	0.870	.760	.690	.63	0.850	.750	.680	.62	0.730	.660	.61	0.700	.650	.61	0.680	.640	.60	0.58				
5	0.820	.700	.610	.54	0.800	.690	.600	.54	0.780	.670	.590	.54	0.650	.580	.53	0.630	.570	.53	0.620	.560	.52	0.50				
6	0.760	.620	.540	.48	0.740	.610	.530	.47	0.720	.600	.520	.47	0.590	.520	.46	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	.450	.40	0.510	.450	.40	0.500	.440	.40	0.38				
8	0.640	.510	.420	.36	0.630	.500	.420	.36	0.610	.490	.410	.36	0.480	.410	.36	0.470	.400	.35	0.450	.400	.35	0.33				
9	0.600	.460	.370	.32	0.580	.450	.370	.32	0.570	.450	.370	.32	0.430	.360	.31	0.420	.360	.31	0.410	.350	.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	.27	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.