



UL Verification Services Inc.
7036 Snowdrift Road
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
United States

Catalog Number
CENLED 22 CP 4335
Project Number
10522345
Test Number
790235

Test Date

2014-10-20

Prepared By

Handwritten signature of Derek Smarr in black ink.

Derek Smarr, Technician

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 housing, white reflectors, perforated enclosed lens
Catalog Number: CENLED 22 CP 4335
Lamp: 128 white LEDs
Mounting: Recessed
Ballast/Driver: Eaglerise EWP054C1500 LED4P

Luminaire

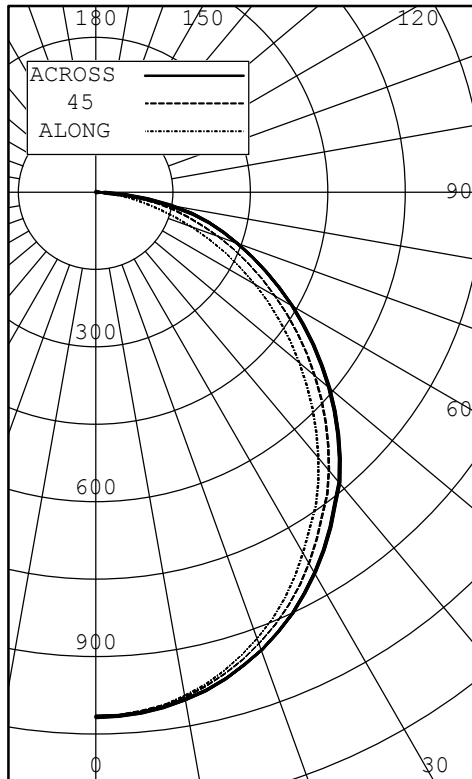


Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.3603 A
Power:	43.10 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	2.82 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	1017	1017	1017	1017	1017	
5	1011	1011	1010	1011	1013	97
10	992	993	994	996	999	
15	960	963	966	972	976	272
20	919	922	929	938	943	
25	868	873	884	895	901	406
30	805	813	828	842	850	
35	743	750	765	784	793	479
40	671	682	703	724	734	
45	594	605	630	654	664	485
50	515	527	554	579	591	
55	436	448	478	502	514	425
60	356	370	400	426	439	
65	277	293	326	352	365	320
70	199	219	254	281	294	
75	129	150	186	213	227	192
80	71	89	122	141	148	
85	25	35	48	54	58	53
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	776	28.42
0-40	1255	45.97
0-60	2164	79.30
0-90	2729	100.00
40-90	1475	54.03
60-90	565	20.70
90-180	0	0.00
0-180	2729	100.00

EFFICACY (LUMENS PER WATT): 63.3

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 21.750 INS
 WIDTH: 21.750 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.2
 SC: 1.2

ANGLE	ALONG	45	ACROSS
45	2751	2929	3090
55	2490	2738	2949
65	2143	2538	2839
75	1628	2354	2883
85	928	1824	2181

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	1017	1017	1017	1017	1017	1017	
2.5	1016	1016	1015	1014	1016	1015	
5.0	1011	1011	1010	1011	1013	1011	97
7.5	1003	1003	1003	1005	1007	1004	
10.0	992	993	994	996	999	994	
12.5	978	979	982	985	989	982	
15.0	960	963	966	972	976	967	272
17.5	941	944	949	956	960	950	
20.0	919	922	929	938	943	930	
22.5	895	899	908	918	923	908	
25.0	868	873	884	895	901	884	406
27.5	837	844	857	870	876	857	
30.0	805	813	828	842	850	828	
32.5	772	781	798	814	822	797	
35.0	743	750	765	784	793	767	479
37.5	708	718	737	753	761	736	
40.0	671	682	703	724	734	703	
42.5	633	644	667	690	700	667	
45.0	594	605	630	654	664	630	485
47.5	555	567	592	617	628	592	
50.0	515	527	554	579	591	553	
52.5	476	488	516	541	553	515	
55.0	436	448	478	502	514	476	425
57.5	396	409	439	464	476	437	
60.0	356	370	400	426	439	398	
62.5	316	332	363	389	402	361	
65.0	277	293	326	352	365	323	320
67.5	238	256	290	317	329	286	
70.0	199	219	254	281	294	250	
72.5	163	184	219	247	260	215	
75.0	129	150	186	213	227	182	192
77.5	98	118	154	180	192	149	
80.0	71	89	122	141	148	115	
82.5	47	61	86	97	102	80	
85.0	25	35	48	54	58	45	53
87.5	9	11	15	17	19	15	
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	1.121	.071	.030	.99	1.101	.051	.010	.98	1.071	.030	.990	.96	0.990	.960	.93	0.950	.920	.90	0.910	.890	.87	0.85			
2	1.030	.950	.880	.82	1.010	.930	.870	.81	0.980	.910	.850	.80	0.870	.830	.79	0.840	.800	.77	0.810	.780	.75	0.73			
3	0.940	.840	.760	.69	0.920	.820	.750	.69	0.900	.810	.740	.68	0.780	.720	.67	0.750	.700	.66	0.730	.680	.65	0.63			
4	0.870	.750	.660	.60	0.850	.740	.660	.59	0.830	.730	.650	.59	0.700	.630	.58	0.680	.620	.58	0.660	.610	.57	0.55			
5	0.810	.680	.580	.52	0.780	.660	.580	.51	0.760	.650	.570	.51	0.630	.560	.51	0.610	.550	.50	0.590	.540	.49	0.47			
6	0.740	.600	.510	.45	0.720	.590	.510	.45	0.700	.580	.500	.44	0.570	.500	.44	0.550	.490	.44	0.540	.480	.43	0.41			
7	0.680	.540	.450	.40	0.660	.530	.450	.39	0.650	.530	.450	.39	0.510	.440	.39	0.490	.430	.38	0.480	.420	.38	0.36			
8	0.630	.490	.410	.35	0.620	.480	.400	.35	0.600	.480	.400	.34	0.460	.390	.34	0.450	.390	.34	0.440	.380	.34	0.32			
9	0.590	.450	.360	.30	0.570	.440	.360	.30	0.560	.440	.360	.30	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	.26	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.