



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 CC 4335  
Project Number  
10522345  
Test Number  
790234

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, frosted plastic enclosed lens  
Catalog Number: CENLED 22 CC 4335  
Lamp: 128 white LEDs  
Mounting: Recessed  
Ballast/Driver: Eaglerise EWP054C1500 LED4P

Luminaire

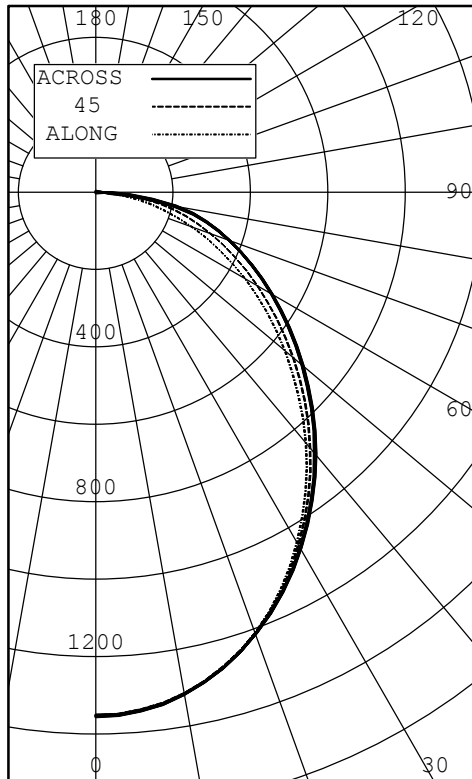


Test Conditions

Test Temperature:	25.4 °C
Voltage:	120.0 VAC
Current:	0.3600 A
Power:	43.07 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	2.83 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG 22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	1353	1353	1353	1353	
5	1346	1345	1343	1341	129
10	1317	1317	1315	1314	
15	1271	1271	1269	1270	357
20	1208	1210	1209	1210	
25	1131	1134	1136	1138	522
30	1041	1046	1049	1056	
35	945	951	958	968	598
40	845	850	862	876	
45	740	749	764	782	589
50	638	647	667	688	
55	540	550	571	598	513
60	444	455	481	512	
65	354	367	397	431	395
70	268	282	317	354	
75	187	204	242	280	255
80	113	132	169	199	
85	47	61	78	86	83
90	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1008	29.29
0-40	1606	46.69
0-60	2708	78.71
0-90	3441	100.00
40-90	1834	53.31
60-90	733	21.29
90-180	0	0.00
0-180	3441	100.00

EFFICACY (LUMENS PER WATT): 79.8

\*\*\* 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	3426	3552	3672
55	3083	3272	3495
65	2742	3085	3463
75	2364	3070	3762
85	1778	2930	3390

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	1353	1353	1353	1353	1353	1353	
2.5	1353	1353	1350	1348	1352	1351	
5.0	1346	1345	1343	1341	1345	1344	129
7.5	1334	1333	1331	1331	1334	1332	
10.0	1317	1317	1315	1314	1318	1316	
12.5	1296	1297	1295	1294	1297	1296	
15.0	1271	1271	1269	1270	1273	1271	357
17.5	1241	1242	1241	1241	1245	1242	
20.0	1208	1210	1209	1210	1213	1210	
22.5	1171	1175	1174	1176	1179	1175	
25.0	1131	1134	1136	1138	1141	1136	522
27.5	1088	1091	1094	1098	1101	1094	
30.0	1041	1046	1049	1056	1060	1050	
32.5	994	999	1005	1013	1017	1006	
35.0	945	951	958	968	973	959	598
37.5	896	900	911	922	928	911	
40.0	845	850	862	876	882	863	
42.5	792	800	813	829	836	814	
45.0	740	749	764	782	790	765	589
47.5	688	697	715	735	743	716	
50.0	638	647	667	688	698	668	
52.5	589	598	618	643	653	620	
55.0	540	550	571	598	610	573	513
57.5	491	502	525	554	566	528	
60.0	444	455	481	512	525	483	
62.5	398	411	438	471	485	440	
65.0	354	367	397	431	445	398	395
67.5	310	324	356	392	407	358	
70.0	268	282	317	354	369	318	
72.5	226	242	279	317	332	279	
75.0	187	204	242	280	296	242	255
77.5	149	167	206	243	259	205	
80.0	113	132	169	199	210	165	
82.5	80	97	128	145	148	121	
85.0	47	61	78	86	90	73	83
87.5	18	22	29	36	40	29	
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	1.091	.051	.010	.97	1.071	.030	.990	.96	0.980	.950	.93	0.940	.920	.90	0.910	.890	.87	0.85			
	2	1.030	.950	.880	.82	1.000	.930	.870	.81	0.980	.910	.850	.80	0.870	.830	.78	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	0.62			
	4	0.870	.750	.660	.60	0.850	.740	.660	.60	0.830	.730	.650	.59	0.700	.640	.58	0.680	.620	.58	0.660	.610	.57	0.55			
	5	0.810	.680	.590	.52	0.790	.660	.580	.52	0.760	.650	.570	.51	0.630	.560	.51	0.610	.550	.50	0.590	.540	.50	0.48			
	6	0.750	.610	.520	.46	0.730	.600	.510	.45	0.710	.590	.510	.45	0.570	.500	.44	0.550	.490	.44	0.540	.480	.44	0.42			
	7	0.680	.550	.460	.40	0.670	.540	.450	.40	0.650	.530	.450	.39	0.510	.440	.39	0.500	.430	.38	0.490	.430	.38	0.36			
	8	0.640	.500	.410	.35	0.620	.490	.410	.35	0.610	.480	.400	.35	0.470	.400	.35	0.460	.390	.34	0.450	.390	.34	0.32			
	9	0.590	.460	.370	.31	0.580	.450	.370	.31	0.560	.440	.360	.31	0.430	.360	.31	0.420	.350	.31	0.410	.350	.30	0.29			
	10	0.550	.410	.330	.28	0.540	.410	.330	.28	0.530	.400	.330	.28	0.390	.320	.28	0.380	.320	.27	0.380	.310	.27	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.