



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  
**Maxlite**  
Ken Charton  
12 York Ave.  
West Caldwell, NJ 07006-6411

Catalog Number  
**RR41227WC**  
Project Number  
**10414729**  
Test Number  
**697835**

Test Date

2014-07-24

Prepared By

Handwritten signature of Derek Smarr in black ink.

Derek Smarr, Technician

Approved By

Handwritten signature of Zachary Mooney in black ink.

Zachary Mooney, Engineer Project Associate

The results contained in this report pertain only to the tested sample.  
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Luminaire Description: Cast aluminum housing / reflector, frosted plastic lens above white enamel  
aluminum reflector, no enclosure  
Catalog Number: RR41227WC  
Lamp: One white LED array  
Mounting: Recessed  
Ballast/Driver: One unmarked LED power supply

Luminaire

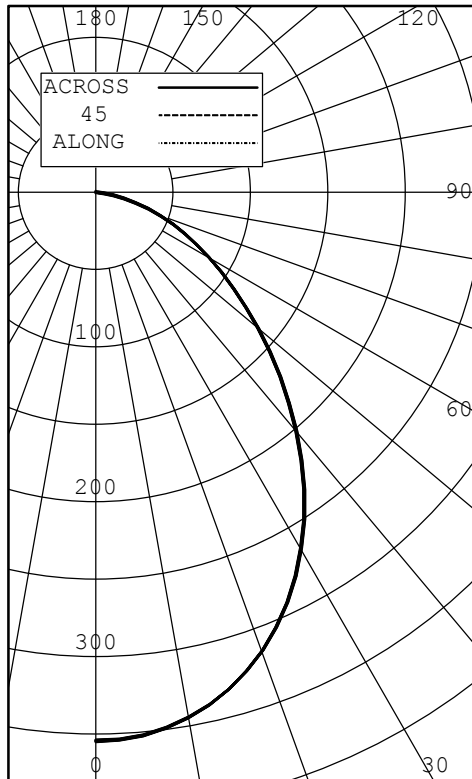


Test Conditions

Test Temperature:	25.6 °C
Voltage:	120.0 VAC
Current:	0.1026 A
Power:	11.29 W
Power Factor:	0.917
Frequency:	60 Hz
Current THD:	31.0 %



INTENSITY (CANDLEPOWER) SUMMARY



ANGLE	MEAN CP	LUMENS
0	354	
5	352	34
10	345	
15	332	93
20	315	
25	293	134
30	265	
35	235	146
40	202	
45	168	130
50	137	
55	109	98
60	85	
65	64	63
70	45	
75	27	29
80	12	
85	1	4
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	261	35.76
0-40	407	55.75
0-60	635	86.89
0-90	730	100.00
40-90	323	44.25
60-90	96	13.11
90-180	0	0.00
0-180	730	100.00

EFFICACY (LUMENS PER WATT): 64.6

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

LUMINOUS DIAMETER: 3.750 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.1  
 SC: 1.1

ANGLE	MEAN CD/SQ M
45	33548
55	26757
65	21385
75	14607
85	2384

TESTED IN ACCORDANCE WITH IES PROCEDURES.



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INTENSITY (CANDLEPOWER) DATA  
IN 2.5 DEGREE STEPS

ANGLE	INTENSITY (CANDLEPOWER)	LUMENS
0.0	354	
2.5	354	
5.0	352	34
7.5	349	
10.0	345	
12.5	339	
15.0	332	93
17.5	324	
20.0	315	
22.5	304	
25.0	293	134
27.5	279	
30.0	265	
32.5	251	
35.0	235	146
37.5	218	
40.0	202	
42.5	185	
45.0	168	130
47.5	152	
50.0	137	
52.5	122	
55.0	109	98
57.5	96	
60.0	85	
62.5	74	
65.0	64	63
67.5	55	
70.0	45	
72.5	36	
75.0	27	29
77.5	19	
80.0	12	
82.5	6	
85.0	1	4
87.5	0	
90.0	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	1.141	.091	.061	.03	1.111	.071	.041	.01	1.091	.051	.020	.99	1.010	.980	.96	0.970	.950	.93	0.940	.920	.91	0.89			
	2	1.050	.990	.930	.88	1.030	.970	.920	.87	1.010	.950	.900	.86	0.910	.870	.84	0.890	.850	.82	0.860	.830	.80	0.78			
	3	0.980	.880	.810	.76	0.960	.870	.800	.75	0.940	.860	.800	.75	0.830	.780	.73	0.800	.760	.72	0.780	.740	.71	0.69			
	4	0.910	.800	.720	.67	0.890	.790	.720	.66	0.870	.780	.710	.66	0.760	.700	.65	0.730	.680	.64	0.710	.670	.63	0.62			
	5	0.850	.730	.650	.59	0.830	.720	.640	.58	0.810	.710	.630	.58	0.690	.620	.58	0.670	.610	.57	0.650	.600	.56	0.55			
	6	0.790	.660	.580	.52	0.770	.650	.570	.52	0.750	.640	.570	.52	0.630	.560	.51	0.610	.550	.51	0.600	.540	.50	0.49			
	7	0.720	.600	.520	.47	0.710	.590	.510	.46	0.700	.580	.510	.46	0.570	.500	.45	0.550	.490	.45	0.540	.490	.45	0.43			
	8	0.680	.550	.470	.41	0.660	.540	.460	.41	0.650	.530	.460	.41	0.520	.450	.41	0.510	.450	.40	0.500	.440	.40	0.38			
	9	0.630	.500	.420	.37	0.620	.500	.420	.37	0.600	.490	.420	.37	0.480	.410	.36	0.470	.410	.36	0.460	.400	.36	0.34			
	10	0.590	.460	.380	.33	0.580	.450	.380	.33	0.570	.450	.380	.33	0.440	.370	.33	0.430	.370	.33	0.420	.370	.32	0.31			

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.