



7826 East Evans Road  
Scottsdale, AZ 85260  
480-991-9260

## Photometric Indoor Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C82.77-2002

Prepared For  
**Environmental Lights**  
11235 W. Bernardo Court, Suite 102  
San Diego, CA 92127

Catalog Number  
**sw-module-5050-3**  
Project Number  
**10345709**  
Test Number  
**33101**

Test Date

2014-06-23

Prepared By

Handwritten signature of Dennis Boyles in black ink.

Dennis Boyles, Technician

Approved By

Handwritten signature of Jim Domigan in black ink.

Jim Domigan, Laboratory Team Leader

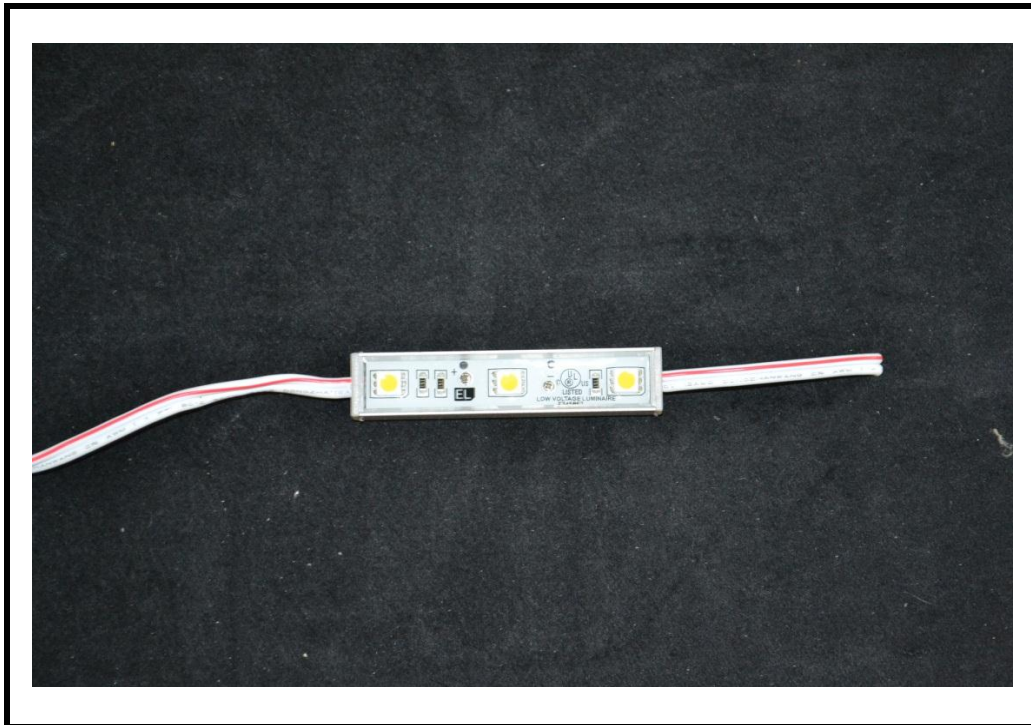
The results contained in this report pertain only to the tested sample.  
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Luminaire Description: LED Strip Light  
Catalog Number: sw-module-5050-3  
Lamp: LED Array  
Ballast/Driver: One Mean Well SP-240-12 Driver

Luminaire



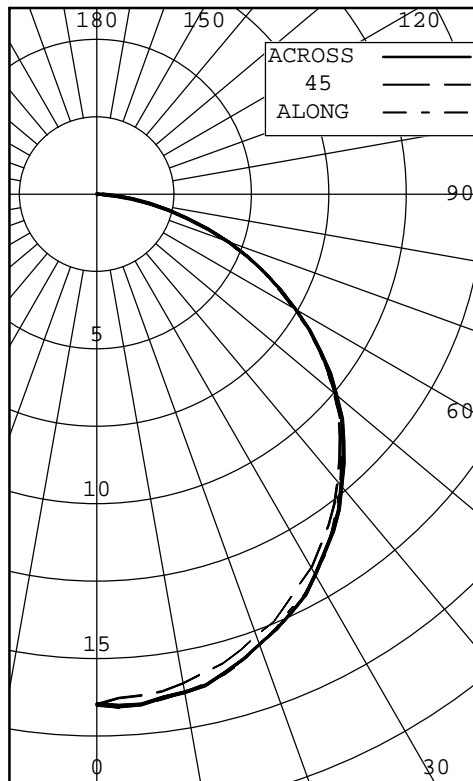
Test Conditions

Test Temperature: 24.8 °C  
Voltage: 12.0 VDC



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INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	16	16	16	16	16	
5	17	16	16	17	17	2
10	16	16	16	16	16	
15	16	16	16	16	16	4
20	15	15	15	15	15	
25	15	15	15	15	15	7
30	14	14	14	14	14	
35	13	13	13	13	13	8
40	12	12	12	12	12	
45	11	11	11	11	11	9
50	10	10	10	10	10	
55	9	9	9	9	9	8
60	7	7	7	7	7	
65	6	6	6	6	6	6
70	4	5	5	5	5	
75	3	3	3	3	3	3
80	2	2	2	2	2	
85	1	1	1	1	1	1
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	13	27.06
0-40	21	44.41
0-60	38	79.07
0-90	47	100.00
40-90	26	55.59
60-90	10	20.93
90-180	0	0.00
0-180	47	100.00

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

LUMINOUS LENGTH: 3.250 INS  
 WIDTH: 0.250 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3  
 SC: 1.3

ANGLE	ALONG	45	ACROSS
45	30216	30060	30467
55	29102	29380	29380
65	26632	27405	27187
75	22112	22507	22566
85	13133	14264	14282

TESTED IN ACCORDANCE WITH IES PROCEDURES.



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INTENSITY (CANDLEPOWER) DATA  
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	16	16	16	16	16	16	
2.5	17	16	16	17	17	16	
5.0	17	16	16	17	17	16	2
7.5	16	16	16	17	16	16	
10.0	16	16	16	16	16	16	
12.5	16	16	16	16	16	16	
15.0	16	16	16	16	16	16	4
17.5	16	16	15	16	16	16	
20.0	15	15	15	15	15	15	
22.5	15	15	15	15	15	15	
25.0	15	15	15	15	15	15	7
27.5	15	14	14	15	15	14	
30.0	14	14	14	14	14	14	
32.5	14	14	13	14	14	14	
35.0	13	13	13	13	13	13	8
37.5	13	13	13	13	13	13	
40.0	12	12	12	12	12	12	
42.5	12	12	12	12	12	12	
45.0	11	11	11	11	11	11	9
47.5	11	11	11	11	11	11	
50.0	10	10	10	10	10	10	
52.5	9	9	9	10	10	9	
55.0	9	9	9	9	9	9	8
57.5	8	8	8	8	8	8	
60.0	7	7	7	7	7	7	
62.5	7	7	7	7	7	7	
65.0	6	6	6	6	6	6	6
67.5	5	5	5	5	5	5	
70.0	4	5	5	5	5	5	
72.5	4	4	4	4	4	4	
75.0	3	3	3	3	3	3	3
77.5	2	2	2	2	2	2	
80.0	2	2	2	2	2	2	
82.5	1	1	1	1	1	1	
85.0	1	1	1	1	1	1	1
87.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	



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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	1.221	1.221	1.221	1.191	1.191	1.191	1.191	1.161	1.161	1.161	1.161	1.111	1.111	1.111	1.061	1.061	1.061	1.021	1.021	1.021	1.000	1.000	1.000	1.000
1	1.131	1.081	1.041	1.001	1.101	1.061	1.020	0.980	1.071	1.041	1.000	0.970	0.990	0.960	0.940	0.950	0.930	0.910	0.920	0.900	0.880	0.860	0.860	0.860	0.860
2	1.030	0.950	0.890	0.830	1.010	0.940	0.870	0.820	0.990	0.920	0.860	0.810	0.880	0.830	0.790	0.850	0.810	0.770	0.820	0.790	0.760	0.740	0.740	0.740	0.740
3	0.950	0.840	0.760	0.700	0.920	0.820	0.750	0.690	0.900	0.810	0.740	0.680	0.780	0.720	0.670	0.750	0.700	0.660	0.730	0.690	0.650	0.630	0.630	0.630	0.630
4	0.870	0.750	0.660	0.600	0.850	0.740	0.660	0.590	0.830	0.730	0.650	0.590	0.700	0.640	0.580	0.680	0.620	0.580	0.660	0.610	0.570	0.550	0.550	0.550	0.550
5	0.810	0.670	0.580	0.510	0.780	0.660	0.570	0.510	0.760	0.650	0.570	0.510	0.630	0.560	0.500	0.610	0.550	0.500	0.590	0.540	0.490	0.470	0.470	0.470	0.470
6	0.740	0.600	0.510	0.450	0.720	0.590	0.500	0.440	0.700	0.580	0.500	0.440	0.560	0.490	0.440	0.550	0.480	0.430	0.530	0.470	0.430	0.410	0.410	0.410	0.410
7	0.680	0.540	0.450	0.390	0.660	0.530	0.440	0.390	0.650	0.520	0.440	0.380	0.500	0.430	0.380	0.490	0.420	0.370	0.480	0.420	0.370	0.350	0.350	0.350	0.350
8	0.630	0.490	0.400	0.340	0.610	0.480	0.400	0.340	0.600	0.470	0.390	0.340	0.460	0.390	0.330	0.450	0.380	0.330	0.430	0.370	0.330	0.310	0.310	0.310	0.310
9	0.580	0.440	0.350	0.300	0.570	0.440	0.350	0.300	0.550	0.430	0.350	0.300	0.420	0.340	0.290	0.410	0.340	0.290	0.400	0.330	0.290	0.270	0.270	0.270	0.270
10	0.540	0.400	0.320	0.260	0.530	0.400	0.320	0.260	0.520	0.390	0.320	0.260	0.380	0.310	0.260	0.370	0.300	0.260	0.360	0.300	0.260	0.240	0.240	0.240	0.240

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.



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**All testing was conducted in accordance with LM-79-08,**

Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products as published by the Illuminating Engineering Society of North America (IESNA).

The condition of the item tested was new. Stabilization time before testing meets the stabilization requirements of LM-79-08.

The test results (luminous distribution and flux) were obtained by using a Lighting Sciences series 6000 Type C Moving Mirror Goniophotometer

- The photometric reference standard used is a set of three incandescent luminous intensity standard lamps calibrated and traceable to the U.S. National Institute of Standards and Technology.

Power measurements were obtained with a Xitron 2801 power analyzer.

Ambient temperature during testing was  $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ , measured using an Omega model DP460.

Calibration certificates are on file at the laboratory

The results in this report apply to the test sample(s) mentioned in this report at the time of the testing period only and are not to be used to indicate applicability to other similar products.