



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  
dlrf390-reel  
Project Number  
10345709  
Test Number  
33062

Test Date

2014-06-19

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

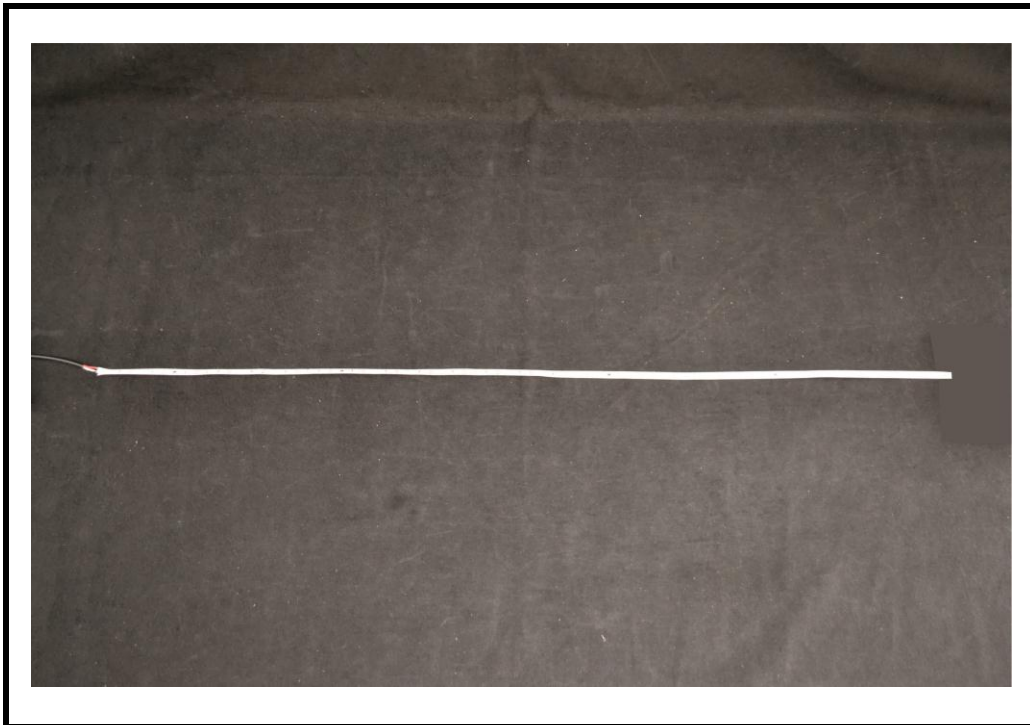
The results contained in this report pertain only to the tested sample.  
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Luminaire Description: LED Strip Light  
Catalog Number: dlrf390-reel  
Lamp: LED Array  
Ballast/Driver: One Mean Well SP-240-12 Driver

Luminaire



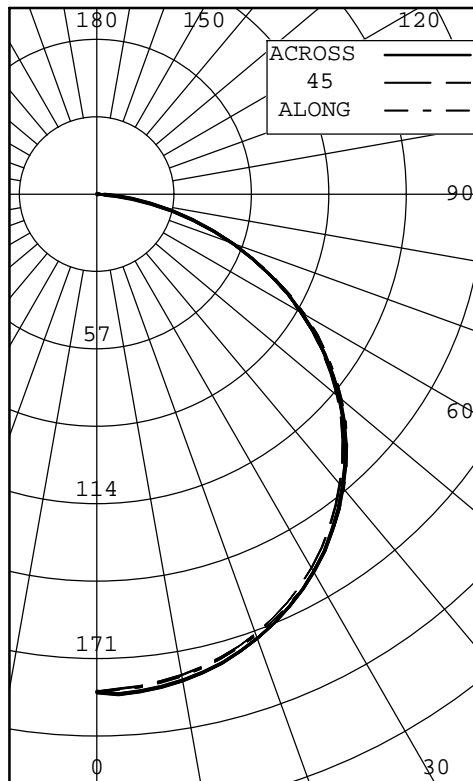
Test Conditions

Test Temperature: 24.4 °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	183	183	183	183	183	
5	182	181	182	184	184	18
10	180	179	180	182	182	
15	177	176	177	179	179	50
20	173	171	172	174	174	
25	167	166	166	168	168	77
30	160	158	159	160	160	
35	151	150	150	151	151	94
40	141	140	139	141	141	
45	130	128	128	129	130	99
50	118	116	116	116	117	
55	104	101	101	102	102	91
60	89	86	86	87	87	
65	72	70	70	71	71	69
70	54	53	53	54	54	
75	37	36	37	37	37	39
80	20	20	20	20	20	
85	7	7	8	8	7	9
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	144	26.44
0-40	238	43.66
0-60	428	78.49
0-90	546	100.00
40-90	307	56.34
60-90	117	21.51
90-180	0	0.00
0-180	546	100.00

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

LUMINOUS LENGTH: 39.370 INS  
 WIDTH: 0.250 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3  
 SC: 1.3

ANGLE	ALONG	45	ACROSS
45	29008	28626	28973
55	28485	27946	28208
65	26699	26250	26426
75	22421	22265	22415
85	13009	13586	13422

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	183	183	183	183	183	183	
2.5	183	182	182	185	184	183	
5.0	182	181	182	184	184	183	18
7.5	181	180	181	183	183	182	
10.0	180	179	180	182	182	181	
12.5	179	178	178	181	181	179	
15.0	177	176	177	179	179	177	50
17.5	175	174	174	177	176	175	
20.0	173	171	172	174	174	173	
22.5	170	169	169	171	171	170	
25.0	167	166	166	168	168	167	77
27.5	164	162	162	164	164	163	
30.0	160	158	159	160	160	159	
32.5	156	154	154	156	156	155	
35.0	151	150	150	151	151	150	94
37.5	147	145	144	146	146	145	
40.0	141	140	139	141	141	140	
42.5	136	134	134	135	135	135	
45.0	130	128	128	129	130	129	99
47.5	124	122	122	123	123	123	
50.0	118	116	116	116	117	116	
52.5	111	109	109	109	110	109	
55.0	104	101	101	102	102	102	91
57.5	96	94	94	95	95	95	
60.0	89	86	86	87	87	87	
62.5	80	78	78	79	79	79	
65.0	72	70	70	71	71	70	69
67.5	63	62	62	62	62	62	
70.0	54	53	53	54	54	54	
72.5	46	45	45	45	45	45	
75.0	37	36	37	37	37	37	39
77.5	28	28	28	28	28	28	
80.0	20	20	20	20	20	20	
82.5	13	13	13	13	13	13	
85.0	7	7	8	8	7	7	9
87.5	3	3	3	3	3	3	
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	.221	.221	.22	1.191	.191	.191	.19	1.161	.161	.161	.16	1.111	.111	.111	.11	1.061	.061	.06	1.021	.021	.02	1.00			
1	1.121	.071	.030	.99	1.101	.051	.010	.97	1.071	.030	.990	.96	0.980	.960	.93	0.950	.920	.90	0.910	.890	.87	0.85				
2	1.030	.950	.880	.82	1.000	.930	.860	.81	0.980	.910	.850	.80	0.870	.820	.78	0.840	.800	.76	0.810	.780	.75	0.73				
3	0.940	.830	.750	.68	0.920	.820	.740	.68	0.890	.800	.730	.67	0.770	.710	.66	0.750	.690	.65	0.720	.680	.64	0.62				
4	0.870	.740	.650	.59	0.840	.730	.650	.58	0.820	.720	.640	.58	0.690	.630	.57	0.670	.610	.56	0.650	.600	.56	0.54				
5	0.800	.670	.570	.50	0.780	.650	.560	.50	0.750	.640	.560	.50	0.620	.550	.49	0.600	.540	.49	0.580	.530	.48	0.46				
6	0.730	.590	.500	.44	0.710	.580	.500	.43	0.690	.570	.490	.43	0.560	.480	.43	0.540	.470	.42	0.520	.460	.42	0.40				
7	0.670	.530	.440	.38	0.650	.520	.440	.38	0.640	.510	.430	.37	0.500	.420	.37	0.480	.420	.37	0.470	.410	.36	0.34				
8	0.620	.480	.390	.33	0.610	.470	.390	.33	0.590	.460	.380	.33	0.450	.380	.33	0.440	.370	.32	0.430	.370	.32	0.30				
9	0.580	.440	.350	.29	0.560	.430	.350	.29	0.550	.420	.340	.29	0.410	.340	.29	0.400	.330	.28	0.390	.330	.28	0.26				
10	0.530	.400	.310	.26	0.520	.390	.310	.26	0.510	.380	.310	.26	0.370	.300	.25	0.360	.300	.25	0.360	.290	.25	0.23				

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.