



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
dlrf5050-60-reel
Project Number
10345709
Test Number
33085

Test Date

2014-06-20

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

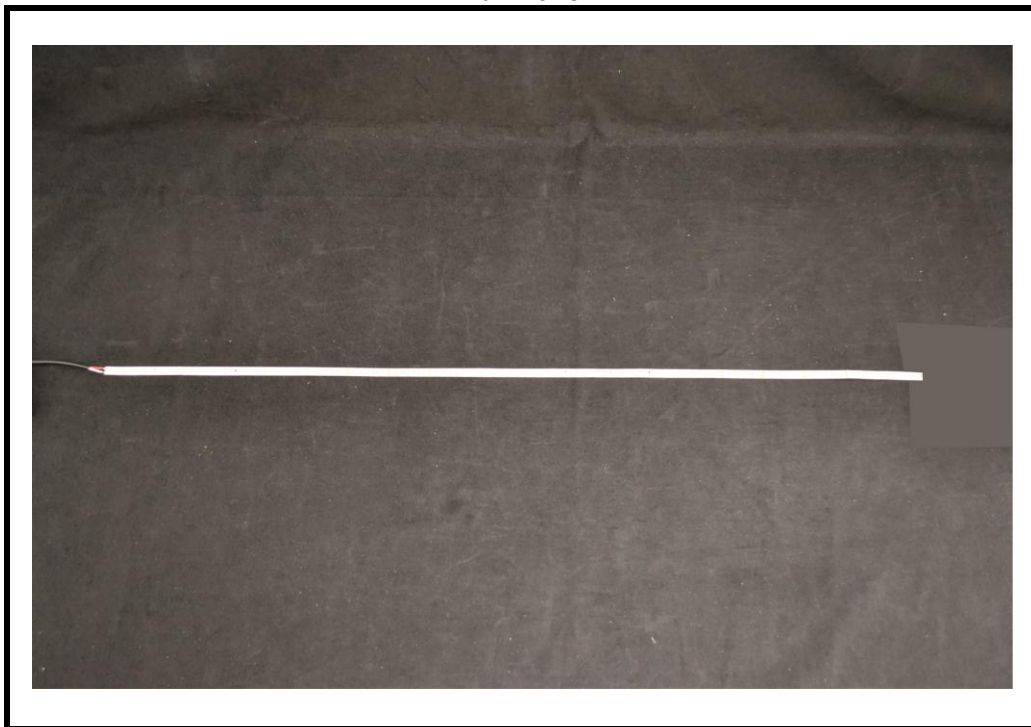
The results contained in this report pertain only to the tested sample.
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Luminaire Description: LED Strip Light
Catalog Number: dlrf5050-60-reel
Lamp: LED Array
Ballast/Driver: One Mean Well SP-240-12 Driver

Luminaire



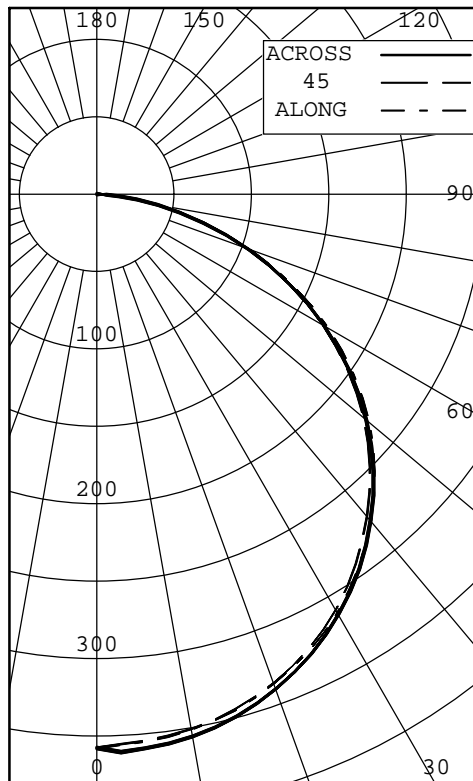
Test Conditions

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	358	358	358	358	358	
5	355	353	355	359	359	34
10	351	349	351	355	356	
15	345	343	345	348	349	97
20	336	334	336	339	340	
25	325	323	324	327	328	150
30	311	309	309	312	313	
35	295	292	292	295	296	183
40	275	272	272	275	275	
45	254	250	250	252	253	193
50	230	226	225	227	227	
55	202	198	198	200	199	177
60	173	168	168	169	169	
65	141	137	137	138	138	136
70	107	104	104	104	104	
75	73	71	72	71	71	76
80	41	41	41	40	40	
85	16	16	16	15	15	19
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	281	26.41
0-40	465	43.60
0-60	836	78.39
0-90	1066	100.00
40-90	601	56.40
60-90	230	21.61
90-180	0	0.00
0-180	1066	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	56501	55778	56493
55	55584	54446	54956
65	52391	51211	51469
75	44143	43648	43426
85	28188	28260	26935

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	358	358	358	358	358	358	
2.5	356	354	356	360	361	357	
5.0	355	353	355	359	359	356	34
7.5	354	352	353	357	358	354	
10.0	351	349	351	355	356	352	
12.5	349	347	348	352	353	349	
15.0	345	343	345	348	349	346	97
17.5	341	339	340	344	345	342	
20.0	336	334	336	339	340	337	
22.5	331	329	330	333	334	331	
25.0	325	323	324	327	328	325	150
27.5	319	317	317	320	321	318	
30.0	311	309	309	312	313	311	
32.5	303	301	301	304	305	302	
35.0	295	292	292	295	296	293	183
37.5	285	282	282	285	286	284	
40.0	275	272	272	275	275	273	
42.5	265	262	261	264	264	263	
45.0	254	250	250	252	253	251	193
47.5	242	238	238	240	240	239	
50.0	230	226	225	227	227	227	
52.5	216	212	212	214	214	213	
55.0	202	198	198	200	199	199	177
57.5	188	184	183	185	185	184	
60.0	173	168	168	169	169	169	
62.5	157	153	153	154	154	154	
65.0	141	137	137	138	138	138	136
67.5	124	121	121	121	121	121	
70.0	107	104	104	104	104	105	
72.5	90	88	88	88	88	88	
75.0	73	71	72	71	71	71	76
77.5	56	55	56	55	55	55	
80.0	41	41	41	40	40	41	
82.5	27	27	27	27	27	27	
85.0	16	16	16	15	15	15	19
87.5	7	7	7	7	7	7	
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	.11	1.061	.061	.06	1.021	.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	1.020	.950	.880	.82	1.000	.930	.860	.81	0.980	.910	.850	.80	0.870	.820	.78	0.840	.800	.76	0.810	.770	.74	0.72			
3	0.940	.830	.750	.68	0.910	.810	.740	.68	0.890	.800	.730	.67	0.770	.710	.66	0.740	.690	.65	0.720	.670	.64	0.61			
4	0.860	.740	.650	.59	0.840	.730	.650	.58	0.820	.720	.640	.58	0.690	.620	.57	0.670	.610	.56	0.650	.600	.55	0.53			
5	0.800	.660	.570	.50	0.770	.650	.560	.50	0.750	.640	.560	.50	0.620	.540	.49	0.600	.530	.48	0.580	.530	.48	0.46			
6	0.730	.590	.500	.44	0.710	.580	.490	.43	0.690	.570	.490	.43	0.550	.480	.42	0.540	.470	.42	0.520	.460	.42	0.40			
7	0.670	.530	.440	.38	0.650	.520	.430	.37	0.640	.510	.430	.37	0.500	.420	.37	0.480	.410	.36	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	.32	0.440	.370	.32	0.430	.360	.32	0.30			
9	0.580	.440	.350	.29	0.560	.430	.340	.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	.25	0.510	.380	.310	.25	0.370	.300	.25	0.360	.300	.25	0.350	.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.