



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
2700K-CC5050-60-reel
Project Number
10345709
Test Number
33092

Test Date

2014-06-16

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

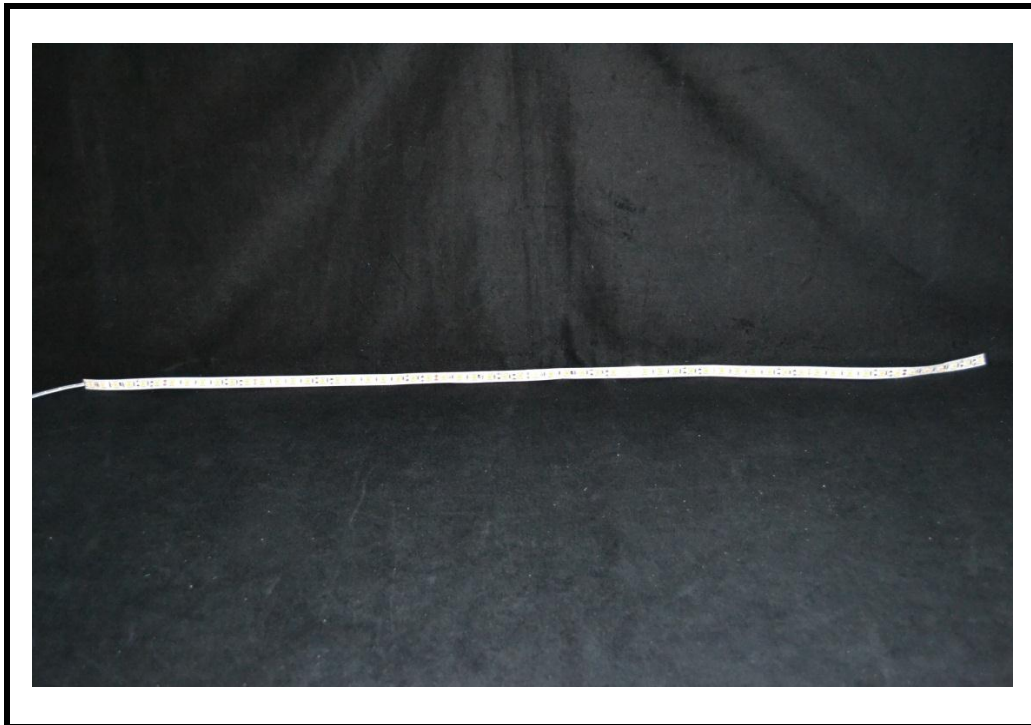
The results contained in this report pertain only to the tested sample.
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Luminaire Description: LED Strip Light
Catalog Number: 2700K-CC5050-60-reel
Lamp: LED Array
Ballast/Driver: One Mean Well SP-320-24 Driver

Luminaire



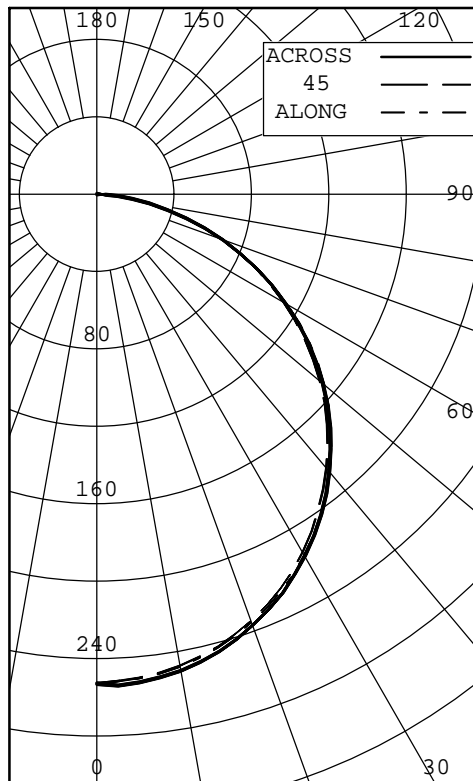
Test Conditions

Test Temperature: 24.8 °C
Voltage: 24.0 VDC



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INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	253	253	253	253	253	
5	251	250	251	254	253	24
10	248	247	248	250	250	
15	243	241	242	245	245	68
20	235	234	234	237	237	
25	226	225	225	227	227	104
30	215	214	213	216	216	
35	202	200	199	202	202	125
40	187	185	185	187	187	
45	171	169	168	170	171	131
50	153	151	151	152	153	
55	134	132	131	133	133	118
60	114	111	111	112	113	
65	92	90	90	91	92	90
70	70	69	69	70	70	
75	47	47	47	48	48	50
80	27	27	27	28	28	
85	11	11	11	11	11	13
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	197	27.17
0-40	322	44.51
0-60	571	78.86
0-90	724	100.00
40-90	402	55.49
60-90	153	21.14
90-180	0	0.00
0-180	724	100.00

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 39.370 INS
 WIDTH: 0.375 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
 SC: 1.3

ANGLE	ALONG	45	ACROSS
45	25396	25083	25418
55	24600	24134	24483
65	22891	22449	22817
75	19207	19209	19545
85	12949	13224	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	253	253	253	253	253	253	
2.5	252	251	252	255	254	253	
5.0	251	250	251	254	253	252	24
7.5	250	248	250	252	252	250	
10.0	248	247	248	250	250	248	
12.5	246	244	245	248	248	246	
15.0	243	241	242	245	245	243	68
17.5	239	238	238	241	241	239	
20.0	235	234	234	237	237	235	
22.5	231	229	230	232	232	231	
25.0	226	225	225	227	227	226	104
27.5	221	219	219	222	222	220	
30.0	215	214	213	216	216	214	
32.5	209	207	207	209	209	208	
35.0	202	200	199	202	202	201	125
37.5	195	193	192	194	195	194	
40.0	187	185	185	187	187	186	
42.5	179	177	177	179	179	178	
45.0	171	169	168	170	171	170	131
47.5	162	160	160	161	162	161	
50.0	153	151	151	152	153	152	
52.5	144	141	141	143	143	142	
55.0	134	132	131	133	133	132	118
57.5	124	122	121	123	123	122	
60.0	114	111	111	112	113	112	
62.5	103	101	101	102	102	101	
65.0	92	90	90	91	92	91	90
67.5	81	79	79	80	81	80	
70.0	70	69	69	70	70	69	
72.5	59	58	58	59	59	58	
75.0	47	47	47	48	48	47	50
77.5	37	37	37	37	38	37	
80.0	27	27	27	28	28	27	
82.5	18	19	18	19	19	19	
85.0	11	11	11	11	11	11	13
87.5	5	5	5	5	5	5	
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	0.950	.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	.820	.78	0.840	.800	.76	0.810	.780	.75	0.73			
3	0.940	.830	.750	.69	0.920	.820	.740	.68	0.890	.800	.730	.68	0.770	.710	.66	0.750	.700	.65	0.720	.680	.64	0.62			
4	0.870	.750	.660	.59	0.850	.730	.650	.59	0.830	.720	.640	.58	0.700	.630	.58	0.670	.610	.57	0.650	.600	.56	0.54			
5	0.800	.670	.580	.51	0.780	.660	.570	.50	0.760	.640	.560	.50	0.620	.550	.50	0.600	.540	.49	0.580	.530	.49	0.47			
6	0.740	.600	.510	.44	0.720	.590	.500	.44	0.700	.580	.490	.43	0.560	.490	.43	0.540	.480	.43	0.530	.470	.42	0.40			
7	0.670	.530	.440	.39	0.660	.520	.440	.38	0.640	.520	.430	.38	0.500	.430	.37	0.490	.420	.37	0.470	.410	.37	0.35			
8	0.630	.480	.400	.34	0.610	.480	.390	.33	0.600	.470	.390	.33	0.450	.380	.33	0.440	.380	.33	0.430	.370	.33	0.31			
9	0.580	.440	.350	.29	0.570	.430	.350	.29	0.550	.430	.350	.29	0.410	.340	.29	0.400	.340	.29	0.390	.330	.29	0.27			
10	0.540	.400	.310	.26	0.520	.390	.310	.26	0.510	.390	.310	.26	0.380	.310	.26	0.370	.300	.26	0.360	.300	.25	0.24			

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.