



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
3000K-CC5050-60x2-reel
Project Number
10345709
Test Number
33098

Test Date

2014-06-17

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

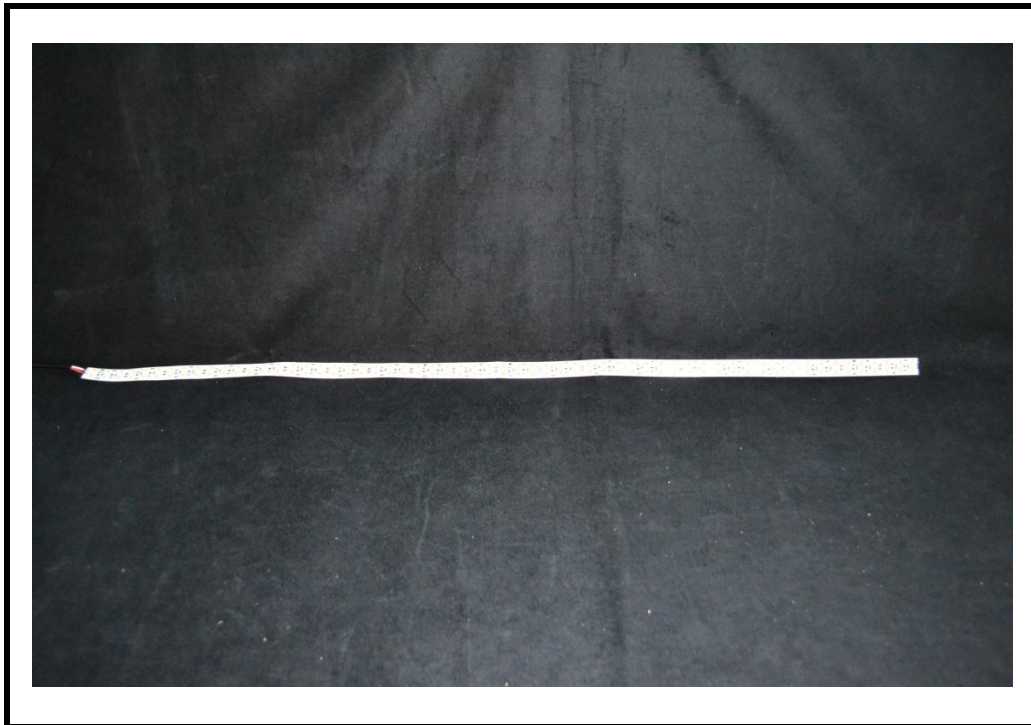
The results contained in this report pertain only to the tested sample.
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Luminaire Description: LED Strip Light
Catalog Number: 3000K-CC5050-60x2-reel
Lamp: LED Array
Ballast/Driver: One Mean Well SP-320-24 Driver

Luminaire



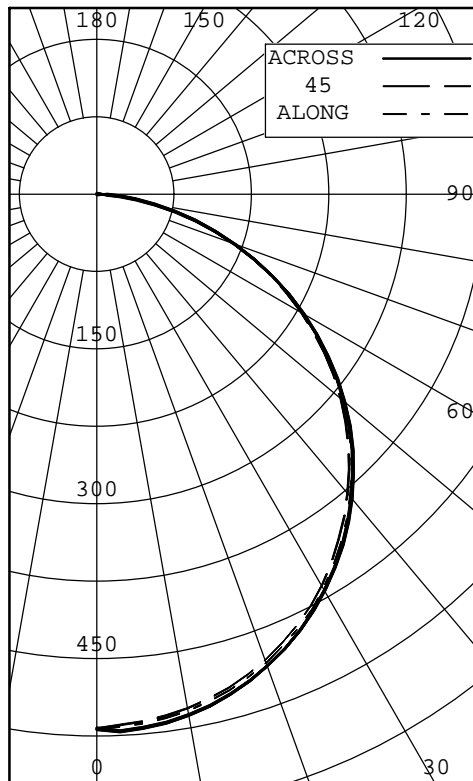
Test Conditions

Test Temperature: 24.9 °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	518	518	518	518	518	
5	515	511	513	519	519	50
10	508	504	506	513	513	
15	498	493	495	502	502	140
20	482	479	480	486	486	
25	463	460	460	466	466	213
30	440	437	437	442	443	
35	413	410	409	414	415	257
40	382	379	378	383	384	
45	349	346	345	350	350	267
50	312	309	309	312	313	
55	273	269	269	273	273	242
60	231	228	228	231	231	
65	187	184	185	187	188	183
70	142	140	141	143	143	
75	98	97	97	98	99	103
80	56	56	56	57	57	
85	22	22	22	23	23	27
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	403	27.16
0-40	660	44.50
0-60	1169	78.84
0-90	1483	100.00
40-90	823	55.50
60-90	314	21.16
90-180	0	0.00
0-180	1483	100.00

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 39.370 INS
 WIDTH: 0.625 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
 SC: 1.3

ANGLE	ALONG	45	ACROSS
45	31068	30829	31329
55	29965	29677	30129
65	27910	27656	28136
75	23790	23624	24248
85	15937	16195	17013

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	518	518	518	518	518	518	
2.5	517	513	515	521	521	517	
5.0	515	511	513	519	519	515	50
7.5	512	508	510	516	517	512	
10.0	508	504	506	513	513	508	
12.5	503	499	501	508	508	504	
15.0	498	493	495	502	502	497	140
17.5	491	486	488	494	494	490	
20.0	482	479	480	486	486	482	
22.5	473	470	470	476	477	473	
25.0	463	460	460	466	466	463	213
27.5	453	449	449	455	455	452	
30.0	440	437	437	442	443	439	
32.5	427	424	423	429	429	426	
35.0	413	410	409	414	415	412	257
37.5	398	395	394	399	400	397	
40.0	382	379	378	383	384	381	
42.5	366	363	362	367	367	365	
45.0	349	346	345	350	350	347	267
47.5	331	328	327	332	332	330	
50.0	312	309	309	312	313	311	
52.5	293	290	289	293	294	291	
55.0	273	269	269	273	273	271	242
57.5	252	249	249	252	253	250	
60.0	231	228	228	231	231	229	
62.5	209	206	207	209	210	208	
65.0	187	184	185	187	188	186	183
67.5	165	162	163	165	166	164	
70.0	142	140	141	143	143	142	
72.5	120	118	119	120	121	119	
75.0	98	97	97	98	99	98	103
77.5	76	75	76	77	78	76	
80.0	56	56	56	57	57	56	
82.5	38	38	38	39	39	38	
85.0	22	22	22	23	23	23	27
87.5	10	10	10	11	11	10	
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	.061	.06	1.021	.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	0.780	.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	.650	.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	0.590	.530	.49	0.47			
	6	0.740	.600	.510	.44	0.720	.590	.500	.44	0.700	.580	.490	.44	0.560	.490	.43	0.540	.480	.43	0.530	.470	.42	0.40			
	7	0.670	.530	.440	.39	0.660	.530	.440	.38	0.640	.520	.440	.38	0.500	.430	.38	0.490	.420	.37	0.470	.410	.37	0.35			
	8	0.630	.480	.400	.34	0.610	.480	.390	.34	0.600	.470	.390	.33	0.460	.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	0.530	.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.