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

Photometric Indoor Test Report

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

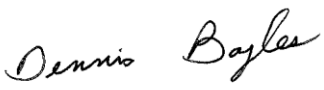
Prepared For
Environmental Lights
11235 W. Bernardo Court, Suite 102
San Diego, CA 92127

Catalog Number
6500K-CC5050-60x2-reel
Project Number
10345709
Test Number
33100

Test Date

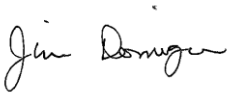
2014-06-18

Prepared By



Dennis Boyles, Technician

Approved By



Jim Domigan, Laboratory Team Leader

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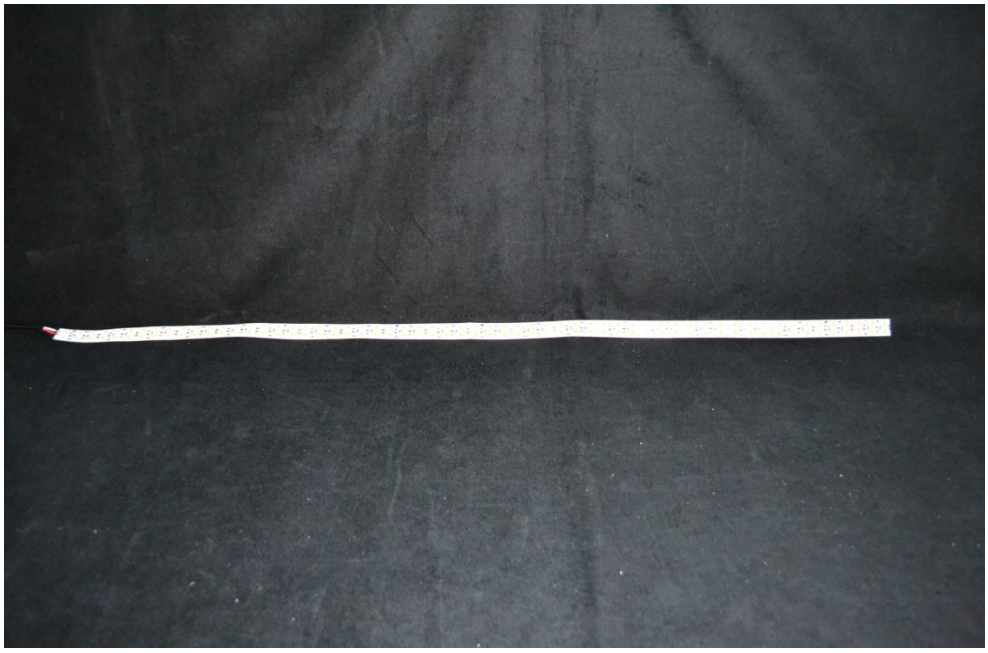
Luminaire Description:	LED Strip Light
Catalog Number:	6500K-CC5050-60x2-reel
Lamp:	LED Array
Ballast/Driver:	One Mean Well SP-320-24 Driver

Luminaire



Test Conditions

Test Temperature:	24.4 °C
Voltage:	24.0 VDC

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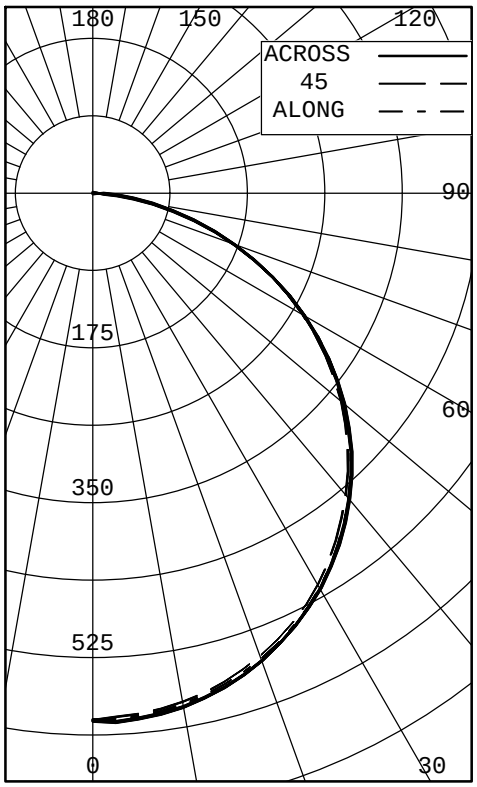

INTENSITY(CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	596	596	596	596	596	
5	593	589	591	598	596	57
10	587	582	584	590	590	
15	575	570	572	579	578	162
20	559	555	556	562	562	
25	539	535	535	541	541	247
30	514	510	510	515	515	
35	484	480	479	484	485	301
40	450	447	445	450	451	
45	413	409	408	412	413	316
50	371	367	366	370	371	
55	326	321	321	324	325	288
60	277	273	273	275	276	
65	225	221	222	224	225	220
70	172	169	170	171	172	
75	119	116	118	118	119	125
80	68	68	68	69	69	
85	27	27	27	28	28	33
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	467	26.68
0-40	768	43.89
0-60	1372	78.42
0-90	1749	100.00
40-90	981	56.11
60-90	377	21.58
90-180	0	0.00
0-180	1749	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	36778	36449	36959
55	35813	35399	35823
65	33581	33236	33605
75	28889	28656	29024
85	19514	19891	20423

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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INTENSITY(CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	LUMENS
0.0	596	596	596	596	596	596	
2.5	595	591	593	600	599	595	
5.0	593	589	591	598	596	593	57
7.5	591	586	588	594	594	590	
10.0	587	582	584	590	590	586	
12.5	582	577	579	585	585	581	
15.0	575	570	572	579	578	575	162
17.5	568	563	565	571	571	567	
20.0	559	555	556	562	562	558	
22.5	549	545	546	552	552	548	
25.0	539	535	535	541	541	538	247
27.5	527	523	523	528	529	526	
30.0	514	510	510	515	515	512	
32.5	499	496	495	500	501	498	
35.0	484	480	479	484	485	482	301
37.5	467	464	462	468	469	465	
40.0	450	447	445	450	451	448	
42.5	432	428	427	432	433	430	
45.0	413	409	408	412	413	410	316
47.5	393	389	388	392	393	390	
50.0	371	367	366	370	371	369	
52.5	349	345	344	347	348	346	
55.0	326	321	321	324	325	323	288
57.5	302	297	298	300	301	299	
60.0	277	273	273	275	276	274	
62.5	252	247	248	250	251	249	
65.0	225	221	222	224	225	223	220
67.5	199	195	196	197	198	197	
70.0	172	169	170	171	172	170	
72.5	145	143	144	144	145	144	
75.0	119	116	118	118	119	118	125
77.5	93	91	92	93	93	92	
80.0	68	68	68	69	69	68	
82.5	46	46	46	47	47	46	
85.0	27	27	27	28	28	27	33
87.5	12	12	13	13	13	12	
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
RCR	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.12	1.07	1.03	0.99	1.09	1.05	1.01	0.97	1.07	1.03	0.99	0.96	0.98	0.95	0.93	0.94	0.92	0.90	0.91	0.89	0.87	0.85
2	1.03	0.95	0.88	0.82	1.00	0.93	0.86	0.81	0.98	0.91	0.85	0.80	0.87	0.82	0.78	0.84	0.80	0.76	0.81	0.78	0.74	0.72
3	0.94	0.83	0.75	0.68	0.92	0.82	0.74	0.68	0.89	0.80	0.73	0.67	0.77	0.71	0.66	0.74	0.69	0.65	0.72	0.68	0.64	0.62
4	0.87	0.74	0.65	0.59	0.84	0.73	0.65	0.58	0.82	0.72	0.64	0.58	0.69	0.62	0.57	0.67	0.61	0.56	0.65	0.60	0.56	0.54
5	0.80	0.66	0.57	0.50	0.78	0.65	0.56	0.50	0.75	0.64	0.56	0.50	0.62	0.55	0.49	0.60	0.54	0.49	0.58	0.53	0.48	0.46
6	0.73	0.59	0.50	0.44	0.71	0.58	0.50	0.43	0.69	0.57	0.49	0.43	0.56	0.48	0.43	0.54	0.47	0.42	0.52	0.46	0.42	0.40
7	0.67	0.53	0.44	0.38	0.65	0.52	0.44	0.38	0.64	0.51	0.43	0.37	0.50	0.42	0.37	0.48	0.42	0.37	0.47	0.41	0.36	0.34
8	0.62	0.48	0.39	0.33	0.61	0.47	0.39	0.33	0.59	0.46	0.38	0.33	0.45	0.38	0.33	0.44	0.37	0.32	0.43	0.37	0.32	0.30
9	0.58	0.44	0.35	0.29	0.56	0.43	0.35	0.29	0.55	0.42	0.34	0.29	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.28	0.27
10	0.53	0.40	0.31	0.26	0.52	0.39	0.31	0.26	0.51	0.38	0.31	0.26	0.37	0.30	0.26	0.37	0.30	0.25	0.36	0.30	0.25	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° C ± 1° 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.