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

Photometric Indoor Test Report

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

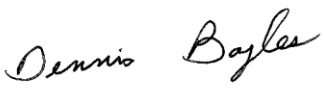
Prepared For
Environmental Lights
11235 W. Bernardo Court, Suite 102
San Diego, CA 92127

Catalog Number
2700K-CC5050-60x2-reel
Project Number
10345709
Test Number
33097

Test Date

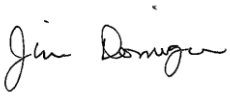
2014-06-17

Prepared By



Dennis Boyles, Technician

Approved By

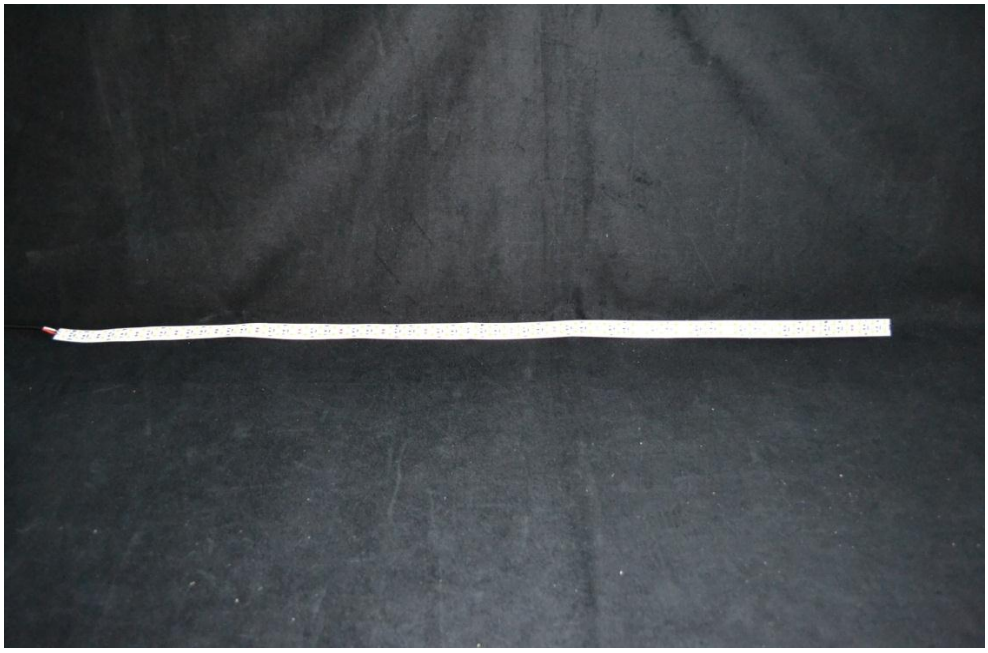


Jim Domigan, Laboratory Team Leader

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

Luminaire Description:	LED Strip Light
Catalog Number:	2700K-CC5050-60x2-reel
Lamp:	LED Array
Ballast/Driver:	One Mean Well SP-320-24 Driver

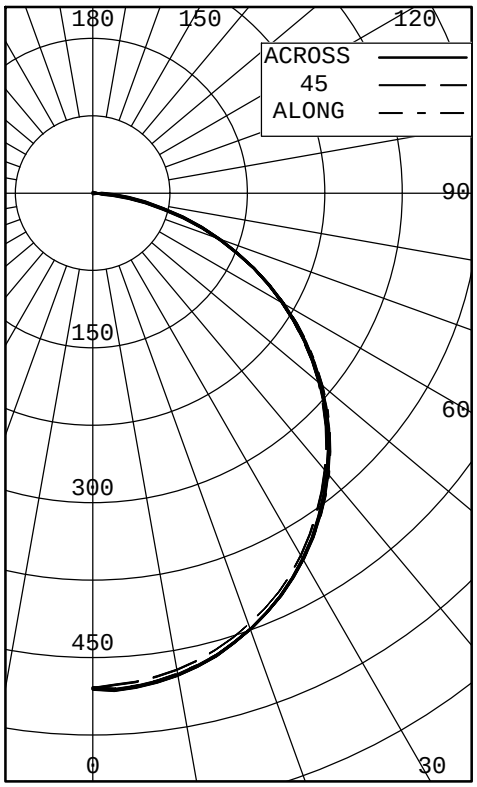
Luminaire



Test Conditions

Test Temperature:	24.8 °C
Voltage:	24.0 VDC

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



INTENSITY(CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	480	480	480	480	480	
5	479	474	476	480	480	46
10	473	468	469	474	474	
15	463	458	459	463	464	130
20	448	444	444	448	449	
25	431	426	426	430	431	197
30	409	405	404	408	408	
35	384	379	378	383	383	238
40	356	351	350	354	354	
45	324	320	319	323	323	247
50	291	286	286	288	288	
55	254	250	249	252	251	224
60	215	211	211	213	213	
65	174	171	171	172	172	170
70	132	130	130	131	132	
75	91	89	90	90	91	95
80	51	52	51	52	52	
85	20	20	20	20	20	24
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	373	27.20
0-40	611	44.55
0-60	1082	78.91
0-90	1371	100.00
40-90	760	55.45
60-90	289	21.09
90-180	0	0.00
0-180	1371	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	28885	28548	28839
55	27862	27494	27693
65	25912	25630	25757
75	22135	21869	22134
85	14563	14420	14837

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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

INTENSITY(CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	LUMENS
0.0	480	480	480	480	480	480	
2.5	481	476	477	481	482	479	
5.0	479	474	476	480	480	477	46
7.5	477	472	473	477	478	475	
10.0	473	468	469	474	474	471	
12.5	468	463	465	469	470	466	
15.0	463	458	459	463	464	461	130
17.5	456	451	452	456	457	454	
20.0	448	444	444	448	449	446	
22.5	440	435	436	440	440	438	
25.0	431	426	426	430	431	428	197
27.5	421	416	416	420	420	418	
30.0	409	405	404	408	408	407	
32.5	397	393	392	396	396	394	
35.0	384	379	378	383	383	381	238
37.5	370	366	364	368	369	367	
40.0	356	351	350	354	354	352	
42.5	340	336	335	339	339	337	
45.0	324	320	319	323	323	321	247
47.5	308	303	303	306	306	305	
50.0	291	286	286	288	288	287	
52.5	272	268	268	270	270	269	
55.0	254	250	249	252	251	251	224
57.5	234	231	230	232	232	232	
60.0	215	211	211	213	213	212	
62.5	194	191	191	193	193	192	
65.0	174	171	171	172	172	172	170
67.5	153	150	151	152	152	151	
70.0	132	130	130	131	132	131	
72.5	112	109	110	111	111	110	
75.0	91	89	90	90	91	90	95
77.5	71	69	70	71	71	70	
80.0	51	52	51	52	52	52	
82.5	34	35	34	35	35	35	
85.0	20	20	20	20	20	20	24
87.5	9	9	9	9	9	9	
90.0	0	0	0	0	0	0	

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

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	1.10	1.05	1.01	0.97	1.07	1.03	0.99	0.96	0.99	0.96	0.93	0.95	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	0.87	0.81	0.98	0.91	0.85	0.80	0.87	0.83	0.78	0.84	0.80	0.77	0.81	0.78	0.75	0.73
3	0.94	0.83	0.75	0.69	0.92	0.82	0.74	0.68	0.90	0.80	0.73	0.68	0.78	0.71	0.66	0.75	0.70	0.65	0.72	0.68	0.64	0.62
4	0.87	0.75	0.66	0.59	0.85	0.73	0.65	0.59	0.83	0.72	0.65	0.58	0.70	0.63	0.58	0.67	0.62	0.57	0.65	0.60	0.56	0.54
5	0.80	0.67	0.58	0.51	0.78	0.66	0.57	0.51	0.76	0.64	0.56	0.50	0.62	0.55	0.50	0.60	0.54	0.49	0.59	0.53	0.49	0.47
6	0.74	0.60	0.51	0.44	0.72	0.59	0.50	0.44	0.70	0.58	0.50	0.44	0.56	0.49	0.43	0.54	0.48	0.43	0.53	0.47	0.42	0.40
7	0.67	0.53	0.44	0.39	0.66	0.53	0.44	0.38	0.64	0.52	0.44	0.38	0.50	0.43	0.38	0.49	0.42	0.37	0.48	0.41	0.37	0.35
8	0.63	0.48	0.40	0.34	0.61	0.48	0.39	0.34	0.60	0.47	0.39	0.33	0.46	0.38	0.33	0.44	0.38	0.33	0.43	0.37	0.33	0.31
9	0.58	0.44	0.35	0.29	0.57	0.43	0.35	0.29	0.55	0.43	0.35	0.29	0.41	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27
10	0.54	0.40	0.31	0.26	0.53	0.39	0.31	0.26	0.51	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.30	0.26	0.36	0.30	0.26	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.

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

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.