

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P218090

Luminaire Tested: **4SNLED-LD5-49SL-LC-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35685)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-49SL-LC-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5669.9 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.59 / 1.17 / 1.18
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Direct

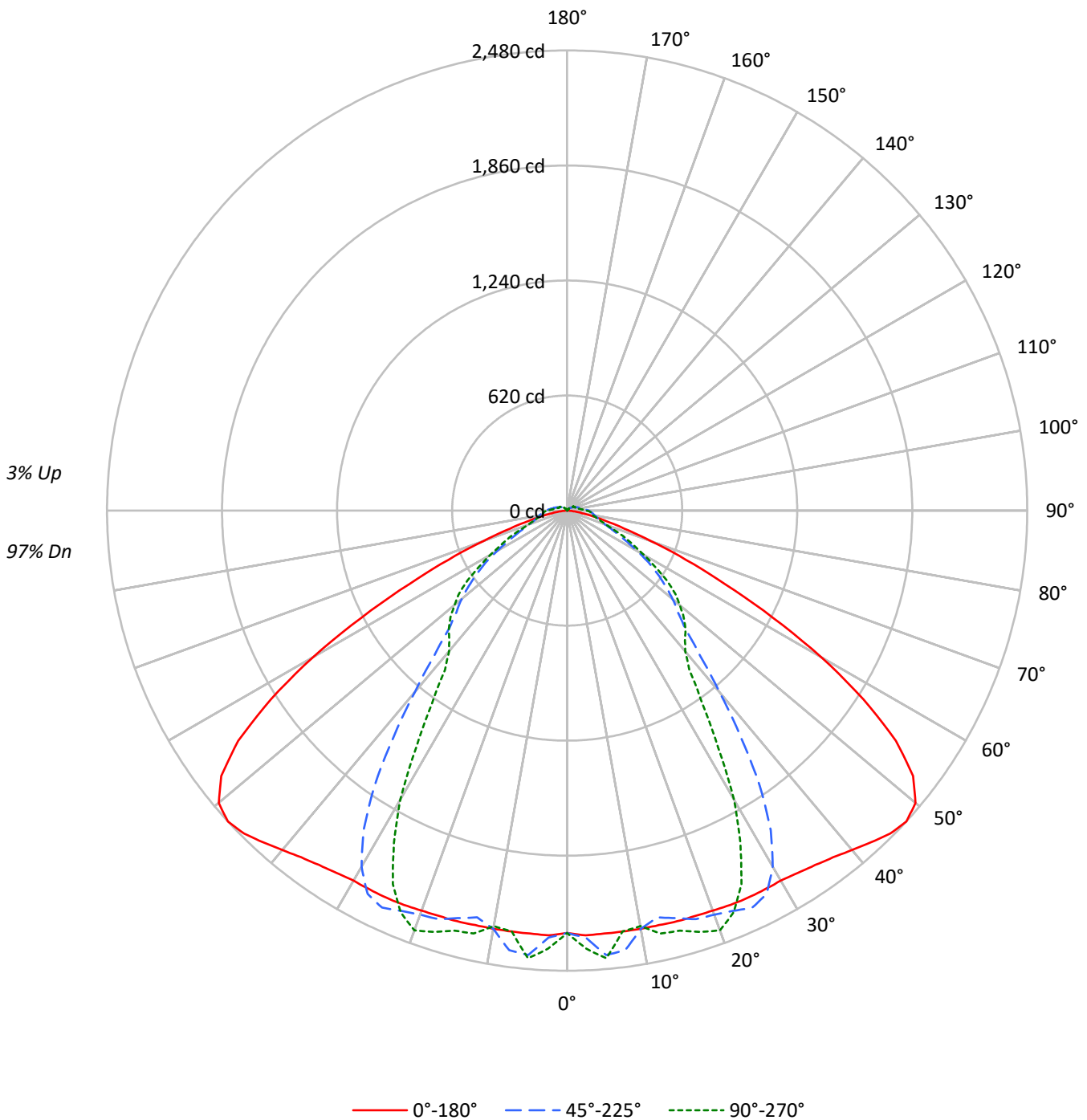
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218090

CATALOG NUMBER: 4SNLED-LD5-49SL-LC-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218090

CATALOG NUMBER: 4SNLED-LD5-49SL-LC-UNV-L850-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97	
1	109	105	101	98	106	102	99	96	97	95	92	93	91	89	89	87	85	89	87	85	83	
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	80	77	74	72	
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	72	68	64	62	
4	85	75	67	60	83	73	66	60	70	64	59	68	62	58	65	60	57	65	60	57	54	
5	79	67	59	53	77	66	58	53	64	57	52	61	55	51	59	54	50	59	54	50	48	
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	54	49	45	54	49	45	43	
7	68	56	48	42	66	55	47	42	53	46	41	51	45	41	50	44	40	50	44	40	38	
8	64	51	43	38	62	50	43	37	49	42	37	47	41	37	46	40	36	46	40	36	34	
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	31	
10	56	44	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	40	34	30	28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36688	36688	36688
5°	36881	36537	36022
10°	37170	33139	31629
15°	37801	31680	30833
20°	38752	31337	30264
25°	40162	31243	26939
30°	41840	28927	21213
35°	44568	23488	14698
40°	48511	16590	11312
45°	53865	11798	10277
50°	58526	9912	9056
55°	57365	8140	7550
60°	47594	6161	5646
65°	32885	4458	4149
70°	20473	3389	2844
75°	11560	2889	2251
80°	6528	2703	1936
85°	2904	2618	1941



TEST NUMBER: P218090

CATALOG NUMBER: 4SNLED-LD5-49SL-LC-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	3.9
10°-20°	659.1	11.6
20°-30°	1047.4	18.5
30°-40°	1129.3	19.9
40°-50°	973.3	17.2
50°-60°	736.9	13.0
60°-70°	398.1	7.0
70°-80°	189.0	3.3
80°-90°	118.7	2.1
90°-100°	75.5	1.3
100°-110°	48.3	0.9
110°-120°	32.4	0.6
120°-130°	21.4	0.4
130°-140°	10.4	0.2
140°-150°	4.4	0.1
150°-160°	1.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1930.3	34.0
0°-40°	3059.6	54.0
0°-60°	4769.9	84.1
0°-90°	5475.7	96.6
90°-120°	156.2	2.8
90°-150°	192.5	3.4
90°-180°	194.0	3.4
0°-180°	5669.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2277	2277	2277	2277	2277	
5°	2288	2338	2404	2436	2422	218
15°	2291	2352	2274	2352	2344	649
25°	2303	2259	2361	2297	2222	1065
35°	2332	2245	1810	1384	1270	1469
45°	2462	1543	899	890	902	1896
55°	2164	667	595	650	653	1882
65°	940	284	302	339	342	965
75°	215	148	174	174	171	253
85°	23	90	133	133	130	33
90°	0	70	116	113	104	1
95°	0	55	93	84	78	0
105°	0	35	64	58	52	0
115°	0	20	44	44	44	0
125°	0	12	29	38	35	0
135°	0	6	17	20	20	0
145°	0	3	9	12	9	0
155°	0	3	3	6	3	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P218090

CATALOG NUMBER: 4SNLED-LD5-49SL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2276.8	2276.8	2276.8	2276.8	2276.8
2.5°	2291.3	2294.2	2302.9	2346.4	2363.8
5°	2288.4	2337.7	2404.4	2436.3	2421.8
7.5°	2288.4	2389.9	2389.9	2329.0	2288.4
10°	2288.4	2418.9	2288.4	2276.8	2273.9
12.5°	2288.4	2401.5	2244.9	2326.1	2334.8
15°	2291.3	2352.2	2273.9	2352.2	2343.5
17.5°	2291.3	2294.2	2308.7	2369.6	2381.2
20°	2294.2	2256.5	2317.4	2416.0	2407.3
22.5°	2300.0	2250.7	2334.8	2395.7	2343.5
25°	2302.9	2259.4	2360.9	2297.1	2221.7
27.5°	2302.9	2271.0	2329.0	2146.3	2021.6
30°	2302.9	2276.8	2215.9	1937.5	1798.3
32.5°	2314.5	2271.0	2041.9	1664.8	1514.0
35°	2331.9	2244.9	1809.9	1383.5	1270.4
37.5°	2355.1	2175.3	1537.2	1157.3	1081.9
40°	2387.0	2024.5	1276.2	1012.2	989.0
42.5°	2424.7	1804.1	1061.5	939.7	939.7
45°	2462.4	1543.0	899.1	890.4	902.0
47.5°	2479.8	1287.8	809.2	841.1	852.7
50°	2450.8	1049.9	742.5	786.0	791.8
52.5°	2349.3	838.2	667.1	719.3	733.8
55°	2163.7	667.1	594.6	649.7	652.6
57.5°	1894.0	530.8	519.2	562.7	559.8
60°	1583.6	429.3	435.1	478.6	478.6
62.5°	1250.1	348.0	365.5	403.2	400.3
65°	939.7	284.2	301.6	339.3	342.2
67.5°	693.2	234.9	255.2	281.3	275.5
70°	484.4	197.2	217.5	232.0	226.2
72.5°	321.9	168.2	191.4	197.2	194.3
75°	214.6	147.9	174.0	174.0	171.1
77.5°	139.2	130.5	162.4	159.5	153.7
80°	87.0	116.0	150.8	145.0	139.2
82.5°	52.2	101.5	142.1	136.3	130.5
85°	23.2	89.9	133.4	133.4	130.5
87.5°	8.7	81.2	124.7	127.6	121.8
90°	0.0	69.6	116.0	113.1	104.4
92.5°	0.0	63.8	104.4	95.7	89.9
95°	0.0	55.1	92.8	84.1	78.3
97.5°	0.0	49.3	84.1	75.4	69.6
100°	0.0	43.5	75.4	66.7	60.9
102.5°	0.0	37.7	69.6	60.9	58.0
105°	0.0	34.8	63.8	58.0	52.2
107.5°	0.0	31.9	58.0	52.2	49.3
110°	0.0	26.1	52.2	49.3	46.4



TEST NUMBER: P218090

CATALOG NUMBER: 4SNLED-LD5-49SL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	23.2	46.4	46.4	46.4
115°	0.0	20.3	43.5	43.5	43.5
117.5°	0.0	17.4	37.7	43.5	43.5
120°	0.0	17.4	34.8	40.6	40.6
122.5°	0.0	14.5	31.9	40.6	40.6
125°	0.0	11.6	29.0	37.7	34.8
127.5°	0.0	8.7	26.1	31.9	31.9
130°	0.0	8.7	23.2	29.0	26.1
132.5°	0.0	5.8	20.3	23.2	23.2
135°	0.0	5.8	17.4	20.3	20.3
137.5°	0.0	5.8	14.5	17.4	14.5
140°	0.0	2.9	11.6	14.5	11.6
142.5°	0.0	2.9	11.6	14.5	11.6
145°	0.0	2.9	8.7	11.6	8.7
147.5°	0.0	2.9	5.8	8.7	8.7
150°	0.0	2.9	5.8	8.7	5.8
152.5°	0.0	2.9	5.8	5.8	2.9
155°	0.0	2.9	2.9	5.8	2.9
157.5°	0.0	2.9	2.9	2.9	2.9
160°	2.9	2.9	2.9	2.9	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)