

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: P218089

Luminaire Tested: **4SNLED-LD5-49SL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218089
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-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5241.0 lumens
Efficiency: N/A
Efficacy: 135.4 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

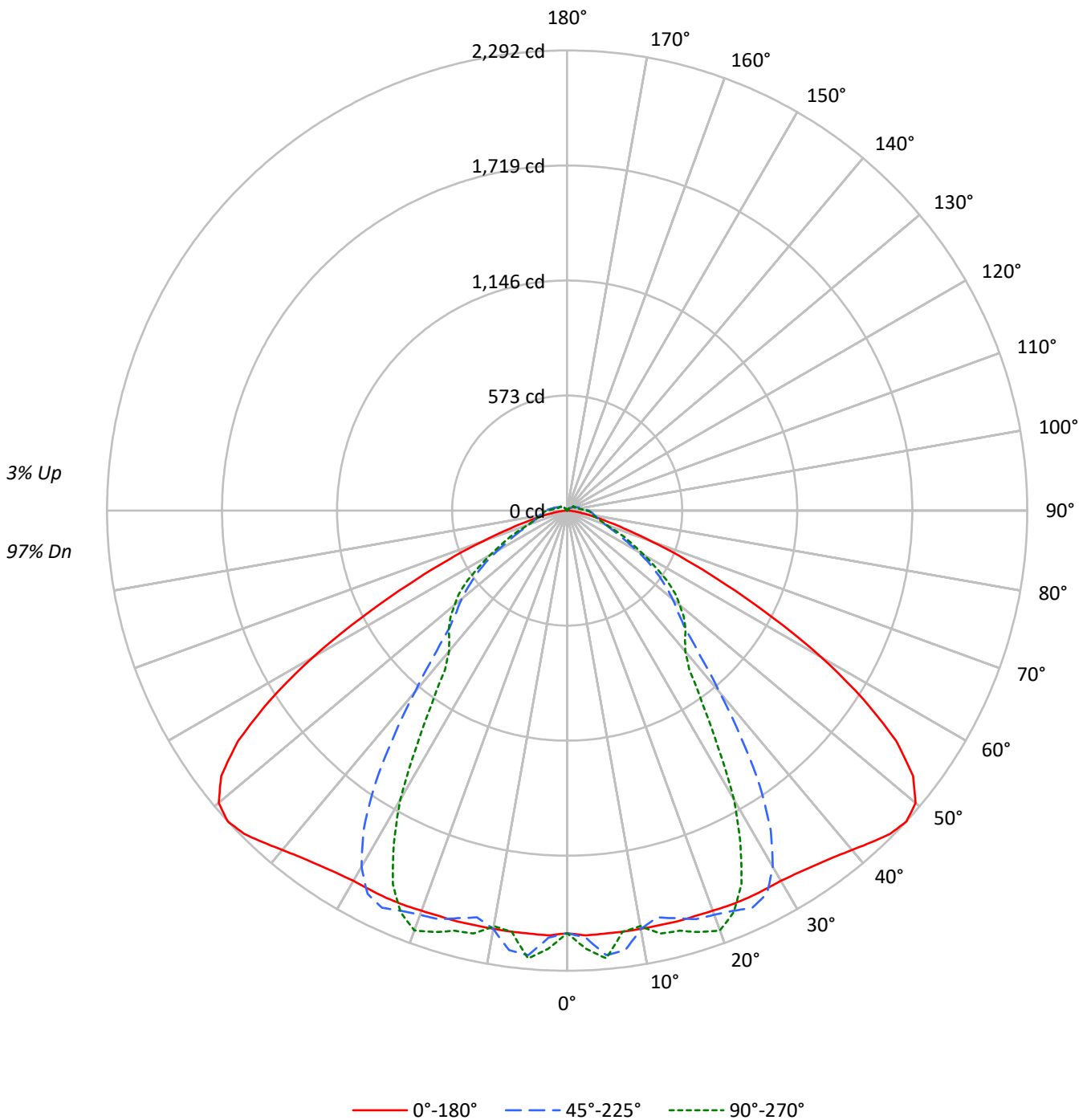
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	56	65	60	56	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°	33913	33913	33913
5°	34091	33773	33297
10°	34358	30632	29237
15°	34942	29284	28500
20°	35819	28966	27975
25°	37124	28880	24901
30°	38675	26739	19607
35°	41197	21710	13586
40°	44840	15334	10456
45°	49789	10906	9500
50°	54098	9162	8371
55°	53025	7524	6979
60°	43993	5694	5219
65°	30397	4121	3836
70°	18922	3133	2629
75°	10687	2672	2081
80°	6032	2498	1790
85°	2678	2420	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	3.9
10°-20°	609.3	11.6
20°-30°	968.1	18.5
30°-40°	1043.9	19.9
40°-50°	899.7	17.2
50°-60°	681.1	13.0
60°-70°	368.0	7.0
70°-80°	174.8	3.3
80°-90°	109.7	2.1
90°-100°	69.8	1.3
100°-110°	44.7	0.9
110°-120°	29.9	0.6
120°-130°	19.7	0.4
130°-140°	9.7	0.2
140°-150°	4.1	0.1
150°-160°	1.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1784.3	34.0
0°-40°	2828.2	54.0
0°-60°	4409.0	84.1
0°-90°	5061.5	96.6
90°-120°	144.4	2.8
90°-150°	177.9	3.4
90°-180°	180.0	3.4
0°-180°	5241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2105	2105	2105	2105	2105	
5°	2115	2161	2222	2252	2239	202
15°	2118	2174	2102	2174	2166	600
25°	2129	2088	2182	2123	2054	985
35°	2156	2075	1673	1279	1174	1358
45°	2276	1426	831	823	834	1752
55°	2000	617	550	600	603	1740
65°	869	263	279	314	316	892
75°	198	137	161	161	158	234
85°	21	83	123	123	121	31
90°	0	64	107	105	96	1
95°	0	51	86	78	72	0
105°	0	32	59	54	48	0
115°	0	19	40	40	40	0
125°	0	11	27	35	32	0
135°	0	5	16	19	19	0
145°	0	3	8	11	8	0
155°	0	3	3	5	3	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2104.6	2104.6	2104.6	2104.6	2104.6
2.5°	2118.0	2120.6	2128.7	2168.9	2185.0
5°	2115.3	2160.9	2222.5	2252.0	2238.6
7.5°	2115.3	2209.1	2209.1	2152.8	2115.3
10°	2115.3	2235.9	2115.3	2104.6	2101.9
12.5°	2115.3	2219.8	2075.1	2150.1	2158.2
15°	2118.0	2174.3	2101.9	2174.3	2166.2
17.5°	2118.0	2120.6	2134.0	2190.3	2201.1
20°	2120.6	2085.8	2142.1	2233.2	2225.2
22.5°	2126.0	2080.4	2158.2	2214.5	2166.2
25°	2128.7	2088.5	2182.3	2123.3	2053.6
27.5°	2128.7	2099.2	2152.8	1983.9	1868.6
30°	2128.7	2104.6	2048.3	1790.9	1662.2
32.5°	2139.4	2099.2	1887.4	1538.9	1399.5
35°	2155.5	2075.1	1672.9	1278.8	1174.3
37.5°	2176.9	2010.7	1420.9	1069.7	1000.0
40°	2206.4	1871.3	1179.6	935.7	914.2
42.5°	2241.3	1667.6	981.2	868.6	868.6
45°	2276.1	1426.3	831.1	823.1	833.8
47.5°	2292.2	1190.3	748.0	777.5	788.2
50°	2265.4	970.5	686.3	726.5	731.9
52.5°	2171.6	774.8	616.6	664.9	678.3
55°	2000.0	616.6	549.6	600.5	603.2
57.5°	1750.7	490.6	479.9	520.1	517.4
60°	1463.8	396.8	402.1	442.4	442.4
62.5°	1155.5	321.7	337.8	372.7	370.0
65°	868.6	262.7	278.8	313.7	316.4
67.5°	640.7	217.2	235.9	260.1	254.7
70°	447.7	182.3	201.1	214.5	209.1
72.5°	297.6	155.5	176.9	182.3	179.6
75°	198.4	136.7	160.9	160.9	158.2
77.5°	128.7	120.6	150.1	147.5	142.1
80°	80.4	107.2	139.4	134.0	128.7
82.5°	48.3	93.8	131.4	126.0	120.6
85°	21.4	83.1	123.3	123.3	120.6
87.5°	8.0	75.1	115.3	118.0	112.6
90°	0.0	64.3	107.2	104.6	96.5
92.5°	0.0	59.0	96.5	88.5	83.1
95°	0.0	50.9	85.8	77.7	72.4
97.5°	0.0	45.6	77.7	69.7	64.3
100°	0.0	40.2	69.7	61.7	56.3
102.5°	0.0	34.9	64.3	56.3	53.6
105°	0.0	32.2	59.0	53.6	48.3
107.5°	0.0	29.5	53.6	48.3	45.6
110°	0.0	24.1	48.3	45.6	42.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	21.4	42.9	42.9	42.9
115°	0.0	18.8	40.2	40.2	40.2
117.5°	0.0	16.1	34.9	40.2	40.2
120°	0.0	16.1	32.2	37.5	37.5
122.5°	0.0	13.4	29.5	37.5	37.5
125°	0.0	10.7	26.8	34.9	32.2
127.5°	0.0	8.0	24.1	29.5	29.5
130°	0.0	8.0	21.4	26.8	24.1
132.5°	0.0	5.4	18.8	21.4	21.4
135°	0.0	5.4	16.1	18.8	18.8
137.5°	0.0	5.4	13.4	16.1	13.4
140°	0.0	2.7	10.7	13.4	10.7
142.5°	0.0	2.7	10.7	13.4	10.7
145°	0.0	2.7	8.0	10.7	8.0
147.5°	0.0	2.7	5.4	8.0	8.0
150°	0.0	2.7	5.4	8.0	5.4
152.5°	0.0	2.7	5.4	5.4	2.7
155°	0.0	2.7	2.7	5.4	2.7
157.5°	0.0	2.7	2.7	2.7	2.7
160°	2.7	2.7	2.7	2.7	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)