

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: P218087

Luminaire Tested: **4SNLED-LD5-49SL-LC-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218087
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-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4837.0 lumens
Efficiency: N/A
Efficacy: 125.0 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

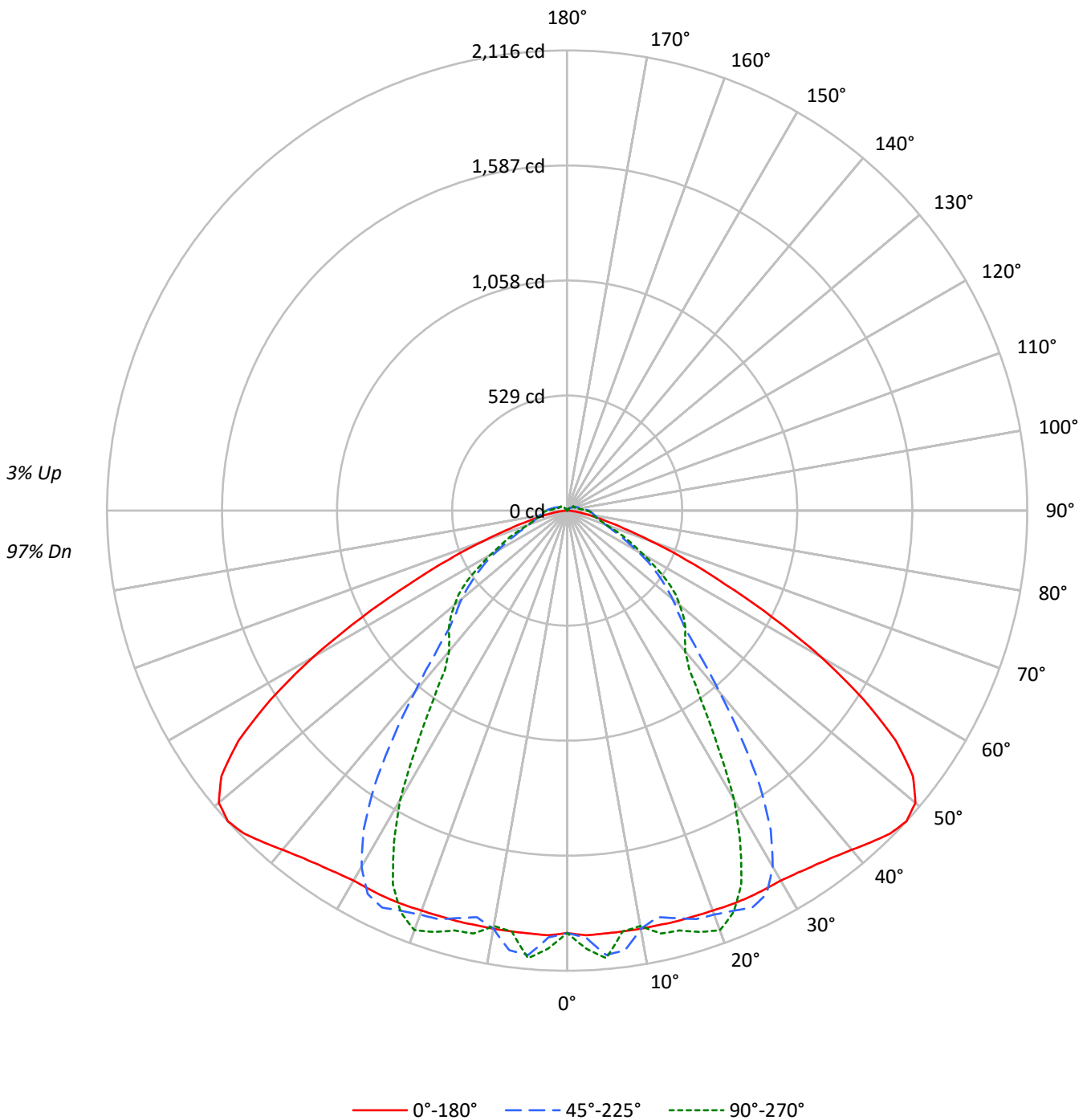
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	31298	31298	31298
5°	31462	31170	30729
10°	31709	28270	26983
15°	32248	27027	26303
20°	33059	26734	25819
25°	34262	26654	22981
30°	35694	24678	18096
35°	38020	20037	12538
40°	41384	14153	9650
45°	45953	10065	8768
50°	49929	8455	7726
55°	48937	6944	6441
60°	40603	5255	4816
65°	28055	3803	3541
70°	17464	2892	2426
75°	9863	2466	1921
80°	5567	2307	1652
85°	2478	2234	1655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	3.9
10°-20°	562.3	11.6
20°-30°	893.5	18.5
30°-40°	963.4	19.9
40°-50°	830.4	17.2
50°-60°	628.6	13.0
60°-70°	339.6	7.0
70°-80°	161.3	3.3
80°-90°	101.3	2.1
90°-100°	64.5	1.3
100°-110°	41.2	0.9
110°-120°	27.6	0.6
120°-130°	18.2	0.4
130°-140°	8.9	0.2
140°-150°	3.8	0.1
150°-160°	1.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1646.7	34.0
0°-40°	2610.1	54.0
0°-60°	4069.1	84.1
0°-90°	4671.3	96.6
90°-120°	133.3	2.8
90°-150°	164.2	3.4
90°-180°	166.0	3.4
0°-180°	4837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1952	1994	2051	2078	2066	186
15°	1955	2007	1940	2007	1999	554
25°	1965	1928	2014	1960	1895	909
35°	1989	1915	1544	1180	1084	1253
45°	2101	1316	767	760	770	1617
55°	1846	569	507	554	557	1605
65°	802	242	257	290	292	823
75°	183	126	148	148	146	216
85°	20	77	114	114	111	29
90°	0	59	99	96	89	1
95°	0	47	79	72	67	0
105°	0	30	54	50	44	0
115°	0	17	37	37	37	0
125°	0	10	25	32	30	0
135°	0	5	15	17	17	0
145°	0	2	7	10	7	0
155°	0	2	2	5	2	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°	1942.3	1942.3	1942.3	1942.3	1942.3
2.5°	1954.7	1957.2	1964.6	2001.7	2016.6
5°	1952.2	1994.3	2051.2	2078.4	2066.0
7.5°	1952.2	2038.8	2038.8	1986.9	1952.2
10°	1952.2	2063.6	1952.2	1942.3	1939.9
12.5°	1952.2	2048.7	1915.1	1984.4	1991.8
15°	1954.7	2006.7	1939.9	2006.7	1999.2
17.5°	1954.7	1957.2	1969.5	2021.5	2031.4
20°	1957.2	1925.0	1977.0	2061.1	2053.7
22.5°	1962.1	1920.1	1991.8	2043.8	1999.2
25°	1964.6	1927.5	2014.1	1959.6	1895.3
27.5°	1964.6	1937.4	1986.9	1831.0	1724.6
30°	1964.6	1942.3	1890.4	1652.8	1534.1
32.5°	1974.5	1937.4	1741.9	1420.2	1291.6
35°	1989.3	1915.1	1544.0	1180.2	1083.7
37.5°	2009.1	1855.7	1311.4	987.2	922.9
40°	2036.3	1727.1	1088.7	863.5	843.7
42.5°	2068.5	1539.0	905.6	801.7	801.7
45°	2100.7	1316.3	767.0	759.6	769.5
47.5°	2115.5	1098.6	690.3	717.5	727.4
50°	2090.8	895.7	633.4	670.5	675.5
52.5°	2004.2	715.1	569.1	613.6	626.0
55°	1845.8	569.1	507.2	554.2	556.7
57.5°	1615.7	452.8	442.9	480.0	477.5
60°	1351.0	366.2	371.1	408.3	408.3
62.5°	1066.4	296.9	311.8	343.9	341.5
65°	801.7	242.5	257.3	289.5	292.0
67.5°	591.4	200.4	217.7	240.0	235.1
70°	413.2	168.3	185.6	197.9	193.0
72.5°	274.6	143.5	163.3	168.3	165.8
75°	183.1	126.2	148.5	148.5	146.0
77.5°	118.8	111.3	138.6	136.1	131.1
80°	74.2	99.0	128.7	123.7	118.8
82.5°	44.5	86.6	121.2	116.3	111.3
85°	19.8	76.7	113.8	113.8	111.3
87.5°	7.4	69.3	106.4	108.9	103.9
90°	0.0	59.4	99.0	96.5	89.1
92.5°	0.0	54.4	89.1	81.7	76.7
95°	0.0	47.0	79.2	71.8	66.8
97.5°	0.0	42.1	71.8	64.3	59.4
100°	0.0	37.1	64.3	56.9	52.0
102.5°	0.0	32.2	59.4	52.0	49.5
105°	0.0	29.7	54.4	49.5	44.5
107.5°	0.0	27.2	49.5	44.5	42.1
110°	0.0	22.3	44.5	42.1	39.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	19.8	39.6	39.6	39.6
115°	0.0	17.3	37.1	37.1	37.1
117.5°	0.0	14.8	32.2	37.1	37.1
120°	0.0	14.8	29.7	34.6	34.6
122.5°	0.0	12.4	27.2	34.6	34.6
125°	0.0	9.9	24.7	32.2	29.7
127.5°	0.0	7.4	22.3	27.2	27.2
130°	0.0	7.4	19.8	24.7	22.3
132.5°	0.0	4.9	17.3	19.8	19.8
135°	0.0	4.9	14.8	17.3	17.3
137.5°	0.0	4.9	12.4	14.8	12.4
140°	0.0	2.5	9.9	12.4	9.9
142.5°	0.0	2.5	9.9	12.4	9.9
145°	0.0	2.5	7.4	9.9	7.4
147.5°	0.0	2.5	4.9	7.4	7.4
150°	0.0	2.5	4.9	7.4	4.9
152.5°	0.0	2.5	4.9	4.9	2.5
155°	0.0	2.5	2.5	4.9	2.5
157.5°	0.0	2.5	2.5	2.5	2.5
160°	2.5	2.5	2.5	2.5	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)