

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: P218231

Luminaire Tested: **4SNLED-LD5-61SL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35686)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-61SL-LN-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5794.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.04 / 1.17  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')  
CIE Type: Direct

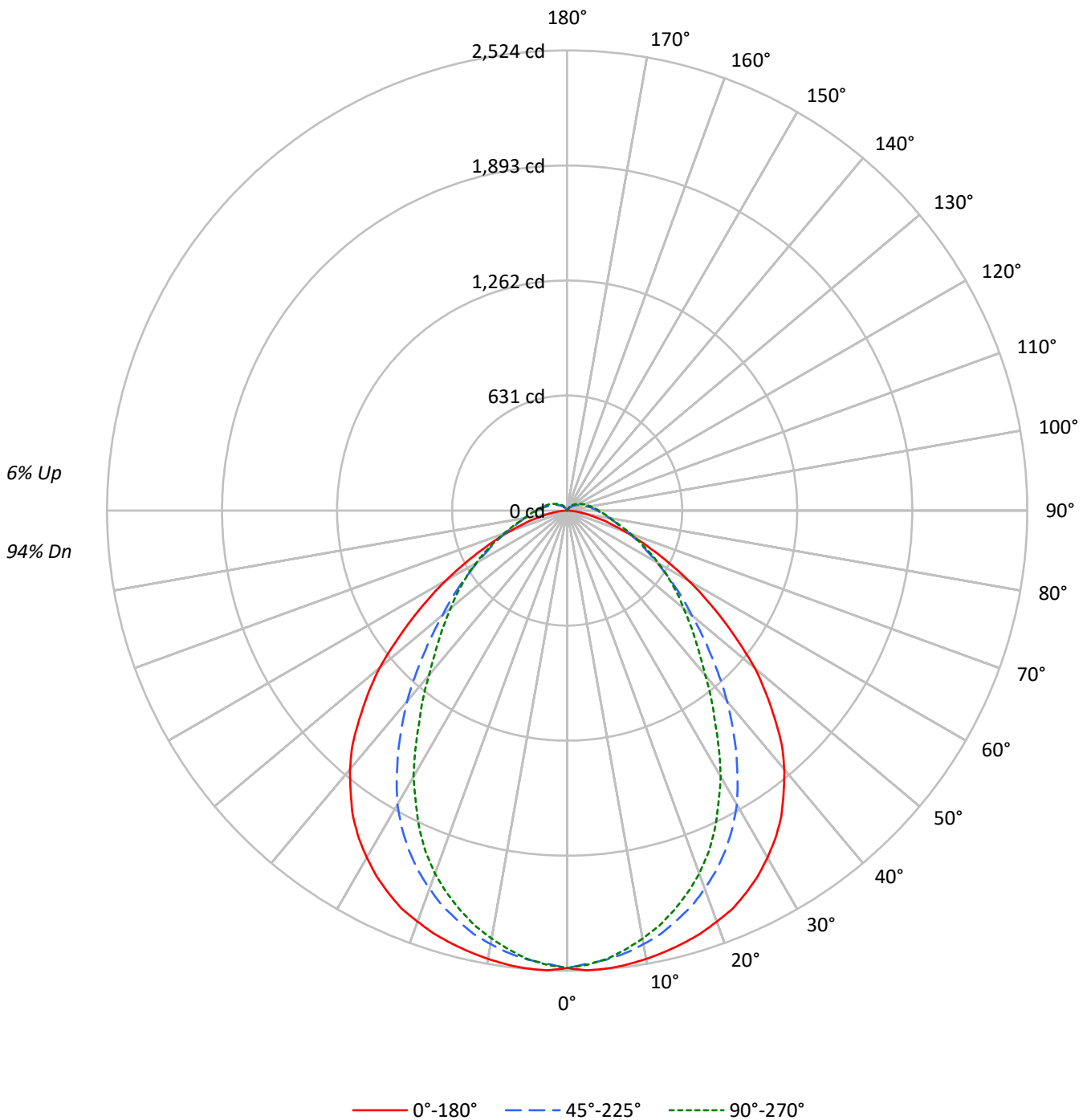
Input Watts (W): 51.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	114	114	114	108	108	108	102	102	102	97	97	97	94				
1	108	103	99	95	105	100	97	93	95	92	89	90	88	86	86	84	82	80				
2	99	91	85	79	96	89	83	78	84	79	75	80	76	73	77	73	70	68				
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	64	61	59				
4	84	73	64	58	81	71	63	57	68	61	56	65	59	55	62	57	53	51				
5	77	65	57	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45				
6	72	59	51	45	70	58	50	44	56	49	44	54	47	43	52	46	42	40				
7	67	54	46	40	65	53	45	40	51	44	39	49	43	38	47	42	38	36				
8	63	50	42	36	61	49	41	36	47	40	35	45	39	35	44	38	34	32				
9	59	46	38	33	57	45	38	33	43	37	32	42	36	32	41	35	31	29				
10	55	42	35	30	54	42	35	30	40	34	29	39	33	29	38	32	29	27				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	40432	40432	40432
5°	40637	37573	36733
10°	40558	34967	33162
15°	40539	32408	29841
20°	40527	29844	26634
25°	40407	27187	23282
30°	39933	24309	19876
35°	39148	20956	16353
40°	37656	17738	13477
45°	35190	14580	11304
50°	32074	11900	9532
55°	27597	9822	8123
60°	23121	8040	6805
65°	18372	6678	5626
70°	14319	5612	4644
75°	10854	4764	3856
80°	7555	4214	3312
85°	4581	3835	2997



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.9	4.1
10°-20°	662.1	11.4
20°-30°	958.7	16.5
30°-40°	1043.4	18.0
40°-50°	926.7	16.0
50°-60°	705.4	12.2
60°-70°	468.4	8.1
70°-80°	285.4	4.9
80°-90°	176.8	3.1
90°-100°	120.8	2.1
100°-110°	84.8	1.5
110°-120°	57.7	1.0
120°-130°	36.6	0.6
130°-140°	20.8	0.4
140°-150°	9.8	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1856.7	32.0
0°-40°	2900.1	50.1
0°-60°	4532.2	78.2
0°-90°	5462.8	94.3
90°-120°	263.3	4.5
90°-150°	330.5	5.7
90°-180°	331.0	5.7
0°-180°	5794.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2509	2509	2509	2509	2509	
5°	2522	2506	2473	2485	2470	240
15°	2457	2415	2326	2299	2268	694
25°	2317	2213	2054	1972	1920	1067
35°	2048	1865	1615	1474	1413	1276
45°	1609	1368	1111	1016	992	1239
55°	1041	846	717	705	702	934
65°	525	452	452	470	464	529
75°	202	229	287	302	293	218
85°	37	116	195	208	202	44
90°	0	86	165	180	174	3
95°	0	67	140	156	153	0
105°	0	43	101	116	116	0
115°	0	28	73	88	86	0
125°	0	18	49	61	61	0
135°	0	12	34	43	43	0
145°	0	6	18	24	24	0
155°	0	0	0	0	0	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°	2509.2	2509.2	2509.2	2509.2	2509.2
2.5°	2524.5	2512.3	2487.9	2503.1	2494.0
5°	2521.5	2506.2	2472.6	2484.8	2469.6
7.5°	2512.3	2494.0	2448.2	2454.3	2429.9
10°	2497.0	2472.6	2414.6	2408.5	2384.1
12.5°	2478.7	2448.2	2378.0	2356.6	2332.2
15°	2457.3	2414.6	2326.1	2298.6	2268.1
17.5°	2432.9	2374.9	2274.2	2231.5	2197.9
20°	2399.3	2329.1	2207.0	2155.1	2118.5
22.5°	2365.8	2274.2	2136.8	2066.6	2026.9
25°	2316.9	2213.1	2054.4	1972.0	1920.1
27.5°	2262.0	2142.9	1962.8	1856.0	1798.0
30°	2197.9	2060.5	1862.1	1736.9	1685.0
32.5°	2127.7	1968.9	1740.0	1605.7	1547.7
35°	2048.3	1865.1	1614.8	1474.4	1413.4
37.5°	1950.6	1752.2	1489.7	1346.2	1297.4
40°	1852.9	1633.1	1364.5	1230.2	1178.3
42.5°	1743.0	1501.9	1236.3	1114.2	1077.6
45°	1608.7	1367.6	1111.1	1016.5	992.1
47.5°	1477.5	1230.2	998.2	931.0	909.7
50°	1343.1	1095.9	891.4	848.6	833.4
52.5°	1187.5	964.6	802.8	775.4	769.3
55°	1040.9	845.6	717.4	705.2	702.1
57.5°	900.5	732.6	638.0	647.2	641.0
60°	769.3	628.8	567.8	580.0	576.9
62.5°	641.0	534.2	503.7	528.1	522.0
65°	525.0	451.8	451.8	470.1	464.0
67.5°	424.3	384.6	402.9	421.3	415.2
70°	338.8	323.6	360.2	375.5	369.4
72.5°	262.5	271.7	317.5	335.8	326.6
75°	201.5	228.9	286.9	302.2	293.1
77.5°	143.5	192.3	259.5	271.7	262.5
80°	100.7	161.8	235.1	247.3	238.1
82.5°	64.1	137.4	213.7	225.9	219.8
85°	36.6	116.0	195.4	207.6	201.5
87.5°	18.3	100.7	177.1	192.3	186.2
90°	0.0	85.5	164.8	180.1	174.0
92.5°	0.0	76.3	152.6	167.9	161.8
95°	0.0	67.2	140.4	155.7	152.6
97.5°	0.0	61.1	131.3	146.5	140.4
100°	0.0	51.9	119.1	134.3	131.3
102.5°	0.0	48.8	109.9	125.2	122.1
105°	0.0	42.7	100.7	116.0	116.0
107.5°	0.0	39.7	94.6	109.9	106.8
110°	0.0	33.6	85.5	100.7	100.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	30.5	79.4	94.6	91.6
115°	0.0	27.5	73.3	88.5	85.5
117.5°	0.0	27.5	67.2	79.4	79.4
120°	0.0	24.4	61.1	73.3	73.3
122.5°	0.0	21.4	54.9	67.2	67.2
125°	0.0	18.3	48.8	61.1	61.1
127.5°	0.0	18.3	45.8	58.0	58.0
130°	0.0	15.3	39.7	51.9	51.9
132.5°	0.0	12.2	36.6	45.8	45.8
135°	0.0	12.2	33.6	42.7	42.7
137.5°	0.0	9.2	27.5	36.6	36.6
140°	0.0	9.2	24.4	33.6	33.6
142.5°	0.0	6.1	21.4	30.5	27.5
145°	0.0	6.1	18.3	24.4	24.4
147.5°	0.0	3.1	15.3	21.4	21.4
150°	0.0	3.1	12.2	18.3	15.3
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	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)