

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: P218234

Luminaire Tested: **4SNLED-LD5-61SL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218234  
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-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6791.0 lumens  
Efficiency: N/A  
Efficacy: 131.9 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

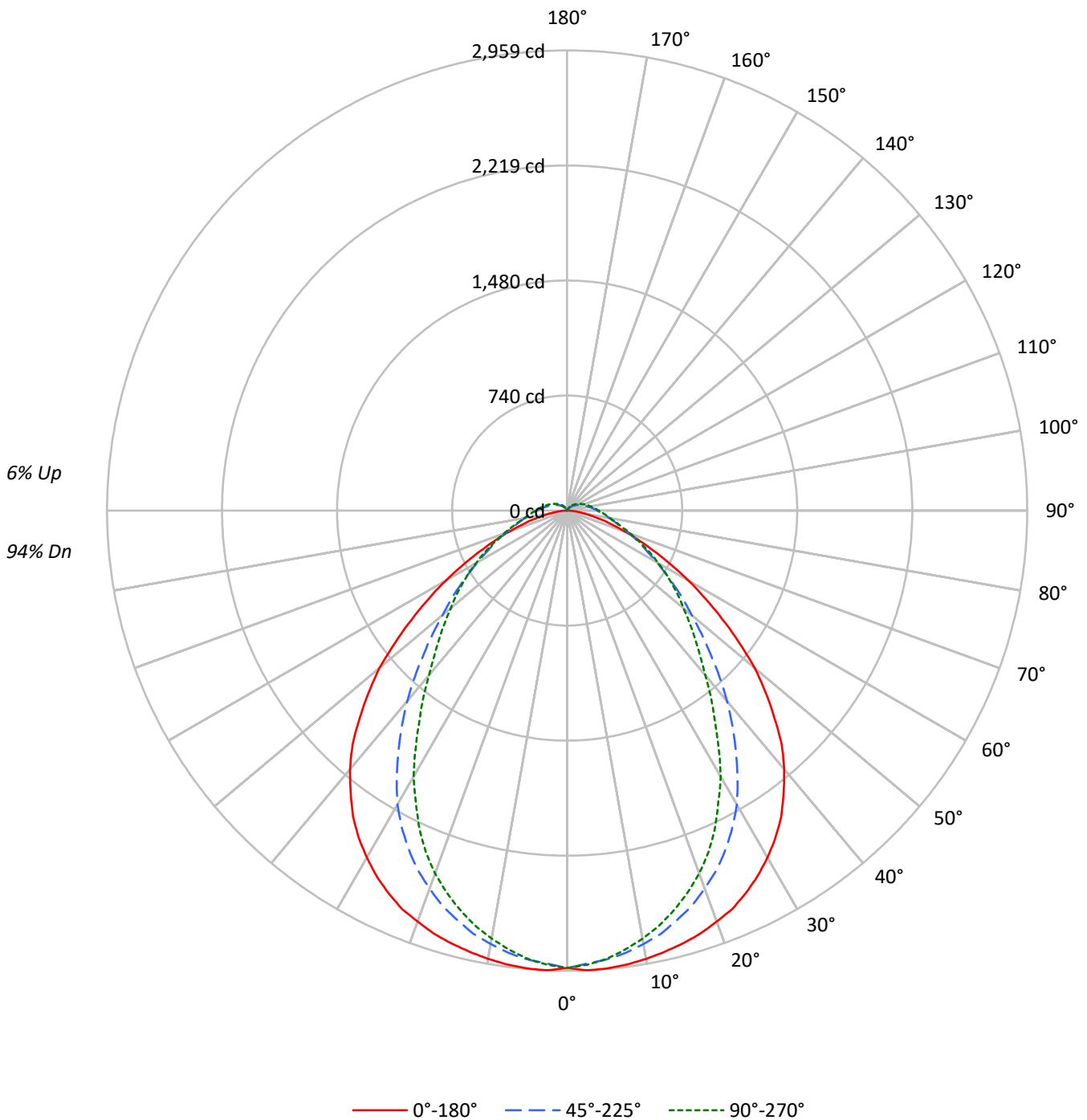
Input Watts (W): 51.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P218234

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P218234

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-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	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°	47390	47390	47390
5°	47629	44039	43053
10°	47537	40983	38868
15°	47516	37983	34976
20°	47501	34980	31216
25°	47360	31865	27288
30°	46804	28491	23297
35°	45885	24562	19167
40°	44137	20790	15796
45°	41245	17089	13249
50°	37595	13946	11172
55°	32348	11511	9521
60°	27097	9424	7976
65°	21536	7826	6594
70°	16783	6578	5442
75°	12718	5585	4519
80°	8861	4938	3882
85°	5369	4495	3512



TEST NUMBER: P218234

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L850-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.5	4.1
10°-20°	776.0	11.4
20°-30°	1123.7	16.5
30°-40°	1223.0	18.0
40°-50°	1086.2	16.0
50°-60°	826.8	12.2
60°-70°	548.9	8.1
70°-80°	334.5	4.9
80°-90°	207.3	3.1
90°-100°	141.6	2.1
100°-110°	99.4	1.5
110°-120°	67.7	1.0
120°-130°	42.9	0.6
130°-140°	24.4	0.4
140°-150°	11.5	0.2
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2176.2	32.0
0°-40°	3399.2	50.1
0°-60°	5312.1	78.2
0°-90°	6402.8	94.3
90°-120°	308.6	4.5
90°-150°	387.4	5.7
90°-180°	388.0	5.7
0°-180°	6791.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2941	2941	2941	2941	2941	
5°	2955	2937	2898	2912	2894	281
15°	2880	2830	2726	2694	2658	814
25°	2716	2594	2408	2311	2250	1250
35°	2401	2186	1893	1728	1657	1496
45°	1886	1603	1302	1191	1163	1452
55°	1220	991	841	826	823	1094
65°	615	530	530	551	544	621
75°	236	268	336	354	344	255
85°	43	136	229	243	236	51
90°	0	100	193	211	204	3
95°	0	79	165	182	179	0
105°	0	50	118	136	136	0
115°	0	32	86	104	100	0
125°	0	22	57	72	72	0
135°	0	14	39	50	50	0
145°	0	7	22	29	29	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



TEST NUMBER: P218234

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2941.0	2941.0	2941.0	2941.0	2941.0
2.5°	2958.9	2944.6	2916.0	2933.9	2923.1
5°	2955.3	2937.4	2898.1	2912.4	2894.5
7.5°	2944.6	2923.1	2869.5	2876.6	2848.0
10°	2926.7	2898.1	2830.1	2822.9	2794.3
12.5°	2905.2	2869.5	2787.2	2762.1	2733.5
15°	2880.2	2830.1	2726.3	2694.1	2658.4
17.5°	2851.6	2783.6	2665.5	2615.4	2576.1
20°	2812.2	2729.9	2586.8	2526.0	2483.0
22.5°	2772.9	2665.5	2504.5	2422.2	2375.7
25°	2715.6	2594.0	2407.9	2311.3	2250.5
27.5°	2651.2	2511.7	2300.6	2175.4	2107.4
30°	2576.1	2415.1	2182.5	2035.8	1975.0
32.5°	2493.8	2307.7	2039.4	1882.0	1814.0
35°	2400.8	2186.1	1892.7	1728.1	1656.6
37.5°	2286.3	2053.7	1746.0	1577.8	1520.6
40°	2171.8	1914.2	1599.3	1441.9	1381.1
42.5°	2043.0	1760.3	1449.0	1305.9	1263.0
45°	1885.5	1602.9	1302.3	1191.4	1162.8
47.5°	1731.7	1441.9	1170.0	1091.3	1066.2
50°	1574.3	1284.5	1044.7	994.7	976.8
52.5°	1391.8	1130.6	941.0	908.8	901.6
55°	1220.1	991.1	840.8	826.5	822.9
57.5°	1055.5	858.7	747.8	758.5	751.4
60°	901.6	737.0	665.5	679.8	676.2
62.5°	751.4	626.1	590.4	619.0	611.8
65°	615.4	529.5	529.5	551.0	543.8
67.5°	497.3	450.8	472.3	493.7	486.6
70°	397.1	379.3	422.2	440.1	432.9
72.5°	307.7	318.4	372.1	393.6	382.8
75°	236.1	268.3	336.3	354.2	343.5
77.5°	168.2	225.4	304.1	318.4	307.7
80°	118.1	189.6	275.5	289.8	279.1
82.5°	75.1	161.0	250.5	264.8	257.6
85°	42.9	136.0	229.0	243.3	236.1
87.5°	21.5	118.1	207.5	225.4	218.3
90°	0.0	100.2	193.2	211.1	203.9
92.5°	0.0	89.4	178.9	196.8	189.6
95°	0.0	78.7	164.6	182.5	178.9
97.5°	0.0	71.6	153.8	171.7	164.6
100°	0.0	60.8	139.5	157.4	153.8
102.5°	0.0	57.2	128.8	146.7	143.1
105°	0.0	50.1	118.1	136.0	136.0
107.5°	0.0	46.5	110.9	128.8	125.2
110°	0.0	39.4	100.2	118.1	118.1



TEST NUMBER: P218234

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	35.8	93.0	110.9	107.3
115°	0.0	32.2	85.9	103.8	100.2
117.5°	0.0	32.2	78.7	93.0	93.0
120°	0.0	28.6	71.6	85.9	85.9
122.5°	0.0	25.0	64.4	78.7	78.7
125°	0.0	21.5	57.2	71.6	71.6
127.5°	0.0	21.5	53.7	68.0	68.0
130°	0.0	17.9	46.5	60.8	60.8
132.5°	0.0	14.3	42.9	53.7	53.7
135°	0.0	14.3	39.4	50.1	50.1
137.5°	0.0	10.7	32.2	42.9	42.9
140°	0.0	10.7	28.6	39.4	39.4
142.5°	0.0	7.2	25.0	35.8	32.2
145°	0.0	7.2	21.5	28.6	28.6
147.5°	0.0	3.6	17.9	25.0	25.0
150°	0.0	3.6	14.3	21.5	17.9
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)