

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: P218195

Luminaire Tested: **4SNLED-LD5-37SL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218195  
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-LD5-37SL-LN-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3577.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 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

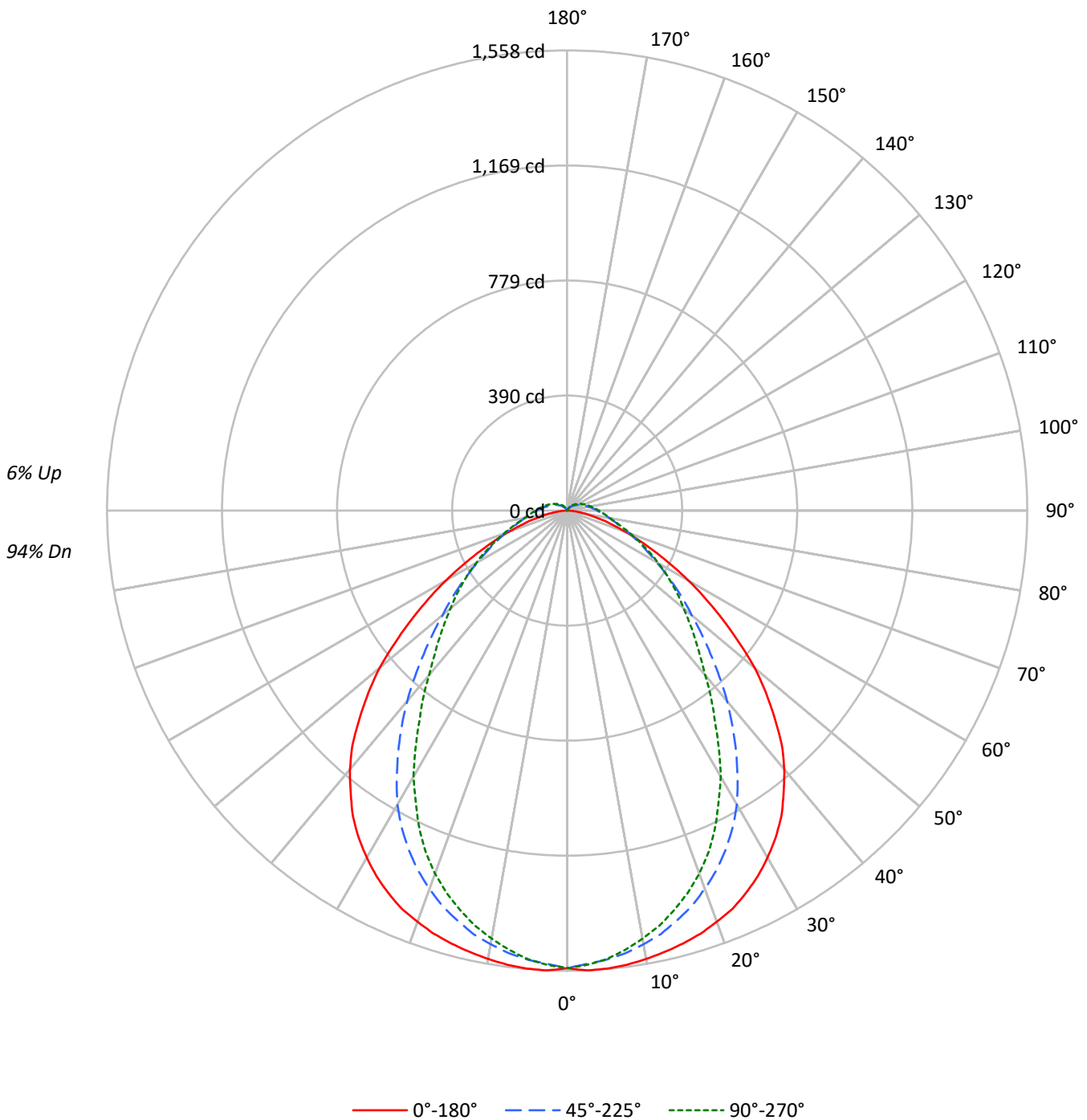
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	24962	24962	24962
5°	25088	23197	22677
10°	25040	21587	20472
15°	25028	20007	18422
20°	25021	18424	16443
25°	24946	16784	14373
30°	24653	15007	12271
35°	24168	12937	10096
40°	23247	10951	8320
45°	21726	9002	6979
50°	19801	7346	5885
55°	17037	6064	5014
60°	14273	4963	4202
65°	11342	4122	3474
70°	8842	3465	2866
75°	6701	2941	2380
80°	4667	2601	2045
85°	2829	2367	1850



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.6	4.1
10°-20°	408.7	11.4
20°-30°	591.9	16.5
30°-40°	644.2	18.0
40°-50°	572.1	16.0
50°-60°	435.5	12.2
60°-70°	289.2	8.1
70°-80°	176.2	4.9
80°-90°	109.2	3.1
90°-100°	74.6	2.1
100°-110°	52.3	1.5
110°-120°	35.6	1.0
120°-130°	22.6	0.6
130°-140°	12.9	0.4
140°-150°	6.0	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1146.3	32.0
0°-40°	1790.4	50.1
0°-60°	2798.0	78.2
0°-90°	3372.5	94.3
90°-120°	162.5	4.5
90°-150°	204.1	5.7
90°-180°	204.0	5.7
0°-180°	3577.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1557	1547	1526	1534	1525	148
15°	1517	1491	1436	1419	1400	429
25°	1430	1366	1268	1217	1185	659
35°	1264	1152	997	910	873	788
45°	993	844	686	628	612	765
55°	643	522	443	435	433	576
65°	324	279	279	290	286	327
75°	124	141	177	187	181	135
85°	23	72	121	128	124	27
90°	0	53	102	111	107	2
95°	0	42	87	96	94	0
105°	0	26	62	72	72	0
115°	0	17	45	55	53	0
125°	0	11	30	38	38	0
135°	0	8	21	26	26	0
145°	0	4	11	15	15	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°	1549.1	1549.1	1549.1	1549.1	1549.1
2.5°	1558.5	1551.0	1535.9	1545.3	1539.7
5°	1556.7	1547.2	1526.5	1534.0	1524.6
7.5°	1551.0	1539.7	1511.4	1515.2	1500.1
10°	1541.6	1526.5	1490.7	1486.9	1471.8
12.5°	1530.3	1511.4	1468.1	1454.9	1439.8
15°	1517.1	1490.7	1436.0	1419.1	1400.2
17.5°	1502.0	1466.2	1404.0	1377.6	1356.9
20°	1481.3	1437.9	1362.5	1330.5	1307.9
22.5°	1460.5	1404.0	1319.2	1275.9	1251.4
25°	1430.4	1366.3	1268.3	1217.4	1185.4
27.5°	1396.5	1323.0	1211.8	1145.8	1110.0
30°	1356.9	1272.1	1149.6	1072.3	1040.3
32.5°	1313.5	1215.5	1074.2	991.3	955.5
35°	1264.5	1151.5	996.9	910.2	872.6
37.5°	1204.2	1081.7	919.7	831.1	800.9
40°	1143.9	1008.2	842.4	759.5	727.4
42.5°	1076.1	927.2	763.2	687.9	665.3
45°	993.2	844.3	686.0	627.6	612.5
47.5°	912.1	759.5	616.3	574.8	561.6
50°	829.2	676.6	550.3	523.9	514.5
52.5°	733.1	595.5	495.6	478.7	474.9
55°	642.6	522.0	442.9	435.3	433.4
57.5°	555.9	452.3	393.9	399.5	395.8
60°	474.9	388.2	350.5	358.1	356.2
62.5°	395.8	329.8	311.0	326.0	322.3
65°	324.1	278.9	278.9	290.2	286.5
67.5°	262.0	237.5	248.8	260.1	256.3
70°	209.2	199.8	222.4	231.8	228.0
72.5°	162.1	167.7	196.0	207.3	201.6
75°	124.4	141.3	177.1	186.6	180.9
77.5°	88.6	118.7	160.2	167.7	162.1
80°	62.2	99.9	145.1	152.6	147.0
82.5°	39.6	84.8	131.9	139.5	135.7
85°	22.6	71.6	120.6	128.2	124.4
87.5°	11.3	62.2	109.3	118.7	115.0
90°	0.0	52.8	101.8	111.2	107.4
92.5°	0.0	47.1	94.2	103.7	99.9
95°	0.0	41.5	86.7	96.1	94.2
97.5°	0.0	37.7	81.0	90.5	86.7
100°	0.0	32.0	73.5	82.9	81.0
102.5°	0.0	30.2	67.8	77.3	75.4
105°	0.0	26.4	62.2	71.6	71.6
107.5°	0.0	24.5	58.4	67.8	66.0
110°	0.0	20.7	52.8	62.2	62.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	18.8	49.0	58.4	56.5
115°	0.0	17.0	45.2	54.7	52.8
117.5°	0.0	17.0	41.5	49.0	49.0
120°	0.0	15.1	37.7	45.2	45.2
122.5°	0.0	13.2	33.9	41.5	41.5
125°	0.0	11.3	30.2	37.7	37.7
127.5°	0.0	11.3	28.3	35.8	35.8
130°	0.0	9.4	24.5	32.0	32.0
132.5°	0.0	7.5	22.6	28.3	28.3
135°	0.0	7.5	20.7	26.4	26.4
137.5°	0.0	5.7	17.0	22.6	22.6
140°	0.0	5.7	15.1	20.7	20.7
142.5°	0.0	3.8	13.2	18.8	17.0
145°	0.0	3.8	11.3	15.1	15.1
147.5°	0.0	1.9	9.4	13.2	13.2
150°	0.0	1.9	7.5	11.3	9.4
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)