

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: P218346

Luminaire Tested: **4SNLED-LD5-50SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35687)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-50SL-LW-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5863.0 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

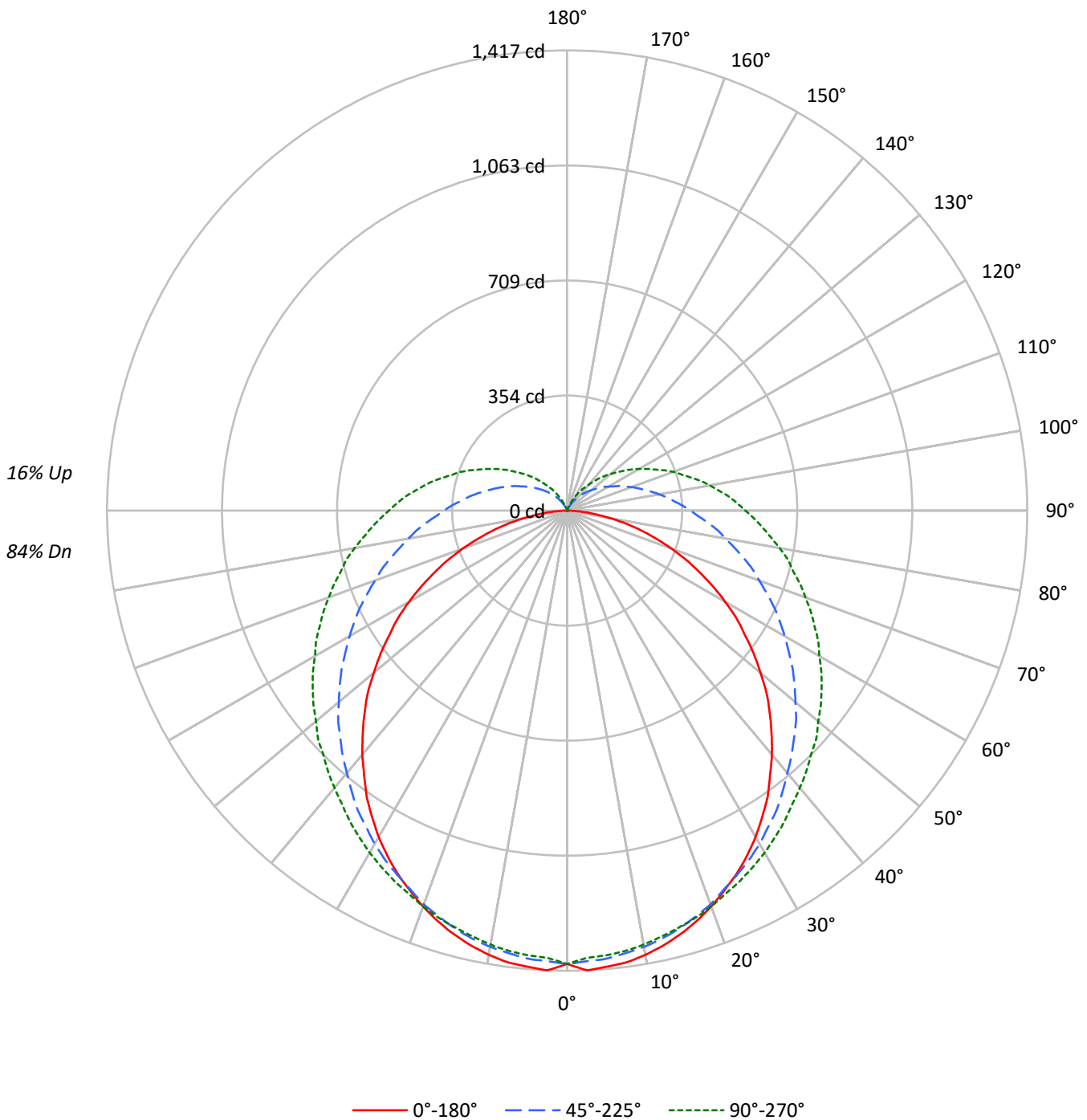
Input Watts (W): 47.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	115	115	115	111	111	111	111	102	102	102		95	95	95		88	88	88	84
1	102	96	91	86	98	93	88	83	85	81	78		79	76	73		73	70	68	64
2	92	83	75	68	88	79	72	66	73	67	62		67	63	58		62	58	55	52
3	83	72	63	56	79	69	61	54	64	57	51		59	53	48		54	49	45	42
4	76	63	54	46	72	61	52	45	56	49	43		52	46	41		48	43	38	36
5	70	56	46	39	66	54	45	39	50	42	37		46	40	35		43	37	33	30
6	64	50	41	34	61	48	40	33	45	37	32		42	35	30		39	33	29	26
7	59	45	36	30	57	44	35	29	41	33	28		38	31	27		35	30	25	23
8	55	41	32	26	53	40	32	26	37	30	25		35	28	24		32	27	23	21
9	51	38	29	24	49	36	29	23	34	27	22		32	26	21		30	24	20	18
10	48	35	27	21	46	34	26	21	32	25	20		30	24	19		28	22	18	17

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

	0°	45°	90°
0°	22493	22493	22493
5°	22724	21052	20449
10°	22559	19757	18879
15°	22275	18566	17487
20°	21916	17451	16312
25°	21524	16379	15263
30°	21083	15470	14351
35°	20565	14602	13507
40°	19937	13713	12748
45°	19307	12966	12099
50°	18557	12251	11543
55°	17713	11601	11065
60°	16908	10954	10576
65°	15751	10393	10190
70°	14417	9806	9814
75°	12691	9343	9483
80°	10024	8886	9244
85°	6596	8558	8996



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.2	2.3
10°-20°	378.0	6.4
20°-30°	574.6	9.8
30°-40°	703.2	12.0
40°-50°	759.2	12.9
50°-60°	745.4	12.7
60°-70°	671.3	11.5
70°-80°	555.9	9.5
80°-90°	427.5	7.3
90°-100°	322.3	5.5
100°-110°	237.2	4.0
110°-120°	163.6	2.8
120°-130°	103.8	1.8
130°-140°	57.4	1.0
140°-150°	24.9	0.4
150°-160°	6.2	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1084.8	18.5
0°-40°	1788.1	30.5
0°-60°	3292.7	56.2
0°-90°	4947.5	84.4
90°-120°	723.1	12.3
90°-150°	909.1	15.5
90°-180°	916.0	15.6
0°-180°	5863.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1410	1403	1385	1385	1375	134
15°	1350	1347	1333	1340	1329	381
25°	1234	1234	1238	1262	1259	568
35°	1076	1086	1125	1160	1167	672
45°	883	921	988	1048	1062	681
55°	668	742	847	932	956	600
65°	450	552	703	809	840	447
75°	236	376	563	682	721	250
85°	53	232	436	566	605	60
90°	0	179	380	510	548	3
95°	4	141	330	457	499	1
105°	0	88	246	359	394	0
115°	0	56	179	271	299	0
125°	0	35	123	193	214	0
135°	0	21	77	127	141	0
145°	0	7	39	70	77	0
155°	0	4	10	21	25	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°	1395.9	1395.9	1395.9	1395.9	1395.9
2.5°	1417.0	1406.5	1388.9	1388.9	1378.4
5°	1410.0	1403.0	1385.4	1385.4	1374.8
7.5°	1403.0	1395.9	1374.8	1378.4	1367.8
10°	1388.9	1381.9	1364.3	1367.8	1357.3
12.5°	1371.3	1364.3	1350.2	1353.7	1343.2
15°	1350.2	1346.7	1332.6	1339.7	1329.1
17.5°	1325.6	1322.1	1311.5	1322.1	1315.1
20°	1297.5	1297.5	1290.5	1304.5	1297.5
22.5°	1265.8	1265.8	1262.3	1283.4	1276.4
25°	1234.2	1234.2	1237.7	1262.3	1258.8
27.5°	1199.0	1202.5	1213.1	1241.2	1237.7
30°	1160.4	1167.4	1185.0	1216.6	1216.6
32.5°	1118.2	1125.2	1153.3	1192.0	1192.0
35°	1076.0	1086.5	1125.2	1160.4	1167.4
37.5°	1026.7	1044.3	1090.0	1132.2	1139.3
40°	981.0	1005.6	1054.9	1104.1	1114.6
42.5°	931.8	963.4	1023.2	1079.5	1090.0
45°	882.6	921.2	988.1	1047.8	1061.9
47.5°	833.3	875.5	956.4	1019.7	1040.8
50°	777.1	829.8	917.7	991.6	1009.2
52.5°	724.3	784.1	882.6	959.9	984.5
55°	668.1	741.9	847.4	931.8	956.4
57.5°	618.9	692.7	808.7	903.7	928.3
60°	562.6	643.5	773.6	868.5	896.6
62.5°	506.3	601.3	738.4	840.4	872.0
65°	450.1	552.0	703.2	808.7	840.4
67.5°	397.3	506.3	664.6	777.1	812.2
70°	341.1	460.6	629.4	745.4	780.6
72.5°	288.3	418.4	597.8	713.8	752.5
75°	235.6	376.2	562.6	682.1	720.8
77.5°	186.4	337.6	527.4	654.0	696.2
80°	133.6	298.9	495.8	622.4	664.6
82.5°	91.4	263.7	467.7	594.2	632.9
85°	52.7	232.1	436.0	566.1	604.8
87.5°	21.1	203.9	404.4	534.5	576.7
90°	0.0	179.3	379.8	509.9	548.5
92.5°	0.0	158.2	355.1	481.7	523.9
95°	3.5	140.6	330.5	457.1	499.3
97.5°	0.0	123.1	309.4	432.5	471.2
100°	0.0	112.5	288.3	407.9	446.6
102.5°	0.0	98.5	267.2	383.3	421.9
105°	0.0	87.9	246.1	358.7	393.8
107.5°	0.0	80.9	228.6	337.6	369.2
110°	0.0	70.3	211.0	316.5	348.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	63.3	193.4	291.8	323.5
115°	0.0	56.3	179.3	270.7	298.9
117.5°	0.0	52.7	161.7	249.7	277.8
120°	0.0	45.7	147.7	232.1	256.7
122.5°	0.0	42.2	137.1	211.0	235.6
125°	0.0	35.2	123.1	193.4	214.5
127.5°	0.0	31.6	109.0	175.8	193.4
130°	0.0	28.1	98.5	158.2	175.8
132.5°	0.0	24.6	87.9	140.6	158.2
135°	0.0	21.1	77.4	126.6	140.6
137.5°	0.0	17.6	66.8	109.0	123.1
140°	0.0	14.1	56.3	94.9	105.5
142.5°	0.0	10.5	49.2	80.9	91.4
145°	0.0	7.0	38.7	70.3	77.4
147.5°	0.0	7.0	31.6	56.3	63.3
150°	0.0	3.5	21.1	45.7	49.2
152.5°	0.0	3.5	17.6	35.2	35.2
155°	0.0	3.5	10.5	21.1	24.6
157.5°	0.0	0.0	7.0	14.1	14.1
160°	0.0	0.0	3.5	7.0	10.5
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)