

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: P218323

Luminaire Tested: **4SNLED-LD5-41SL-LW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218323  
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-LD5-41SL-LW-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3958.0 lumens  
Efficiency: N/A  
Efficacy: 114.4 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

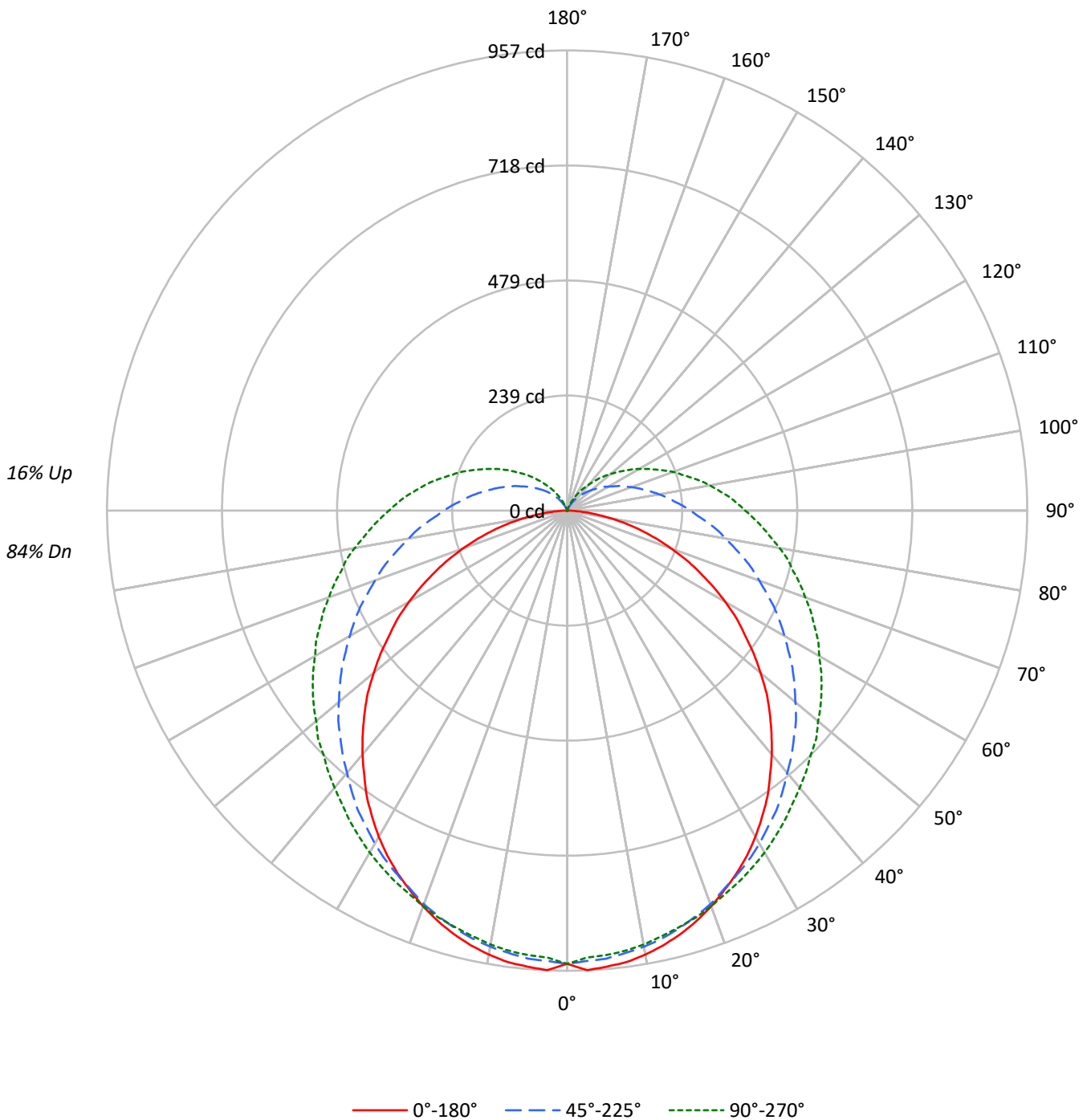
Input Watts (W): 34.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	15185	15185	15185
5°	15341	14211	13804
10°	15229	13337	12745
15°	15037	12533	11806
20°	14795	11781	11012
25°	14531	11058	10304
30°	14231	10442	9688
35°	13883	9858	9118
40°	13460	9257	8607
45°	13033	8752	8168
50°	12528	8270	7792
55°	11957	7832	7471
60°	11415	7395	7140
65°	10631	7016	6879
70°	9734	6620	6625
75°	8565	6307	6402
80°	6768	5999	6240
85°	4456	5776	6073



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.2	2.3
10°-20°	255.2	6.4
20°-30°	387.9	9.8
30°-40°	474.7	12.0
40°-50°	512.6	12.9
50°-60°	503.2	12.7
60°-70°	453.2	11.4
70°-80°	375.3	9.5
80°-90°	288.6	7.3
90°-100°	217.6	5.5
100°-110°	160.1	4.0
110°-120°	110.5	2.8
120°-130°	70.1	1.8
130°-140°	38.8	1.0
140°-150°	16.8	0.4
150°-160°	4.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	732.4	18.5
0°-40°	1207.1	30.5
0°-60°	2222.9	56.2
0°-90°	3340.0	84.4
90°-120°	488.1	12.3
90°-150°	613.8	15.5
90°-180°	618.0	15.6
0°-180°	3958.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	952	947	935	935	928	90
15°	912	909	900	904	897	257
25°	833	833	836	852	850	384
35°	726	734	760	783	788	453
45°	596	622	667	707	717	460
55°	451	501	572	629	646	405
65°	304	373	475	546	567	302
75°	159	254	380	460	487	169
85°	36	157	294	382	408	41
90°	0	121	256	344	370	2
95°	2	95	223	309	337	1
105°	0	59	166	242	266	0
115°	0	38	121	183	202	0
125°	0	24	83	131	145	0
135°	0	14	52	86	95	0
145°	0	5	26	48	52	0
155°	0	2	7	14	17	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°	942.4	942.4	942.4	942.4	942.4
2.5°	956.6	949.5	937.6	937.6	930.5
5°	951.9	947.1	935.2	935.2	928.1
7.5°	947.1	942.4	928.1	930.5	923.4
10°	937.6	932.9	921.0	923.4	916.3
12.5°	925.8	921.0	911.5	913.9	906.8
15°	911.5	909.1	899.6	904.4	897.3
17.5°	894.9	892.5	885.4	892.5	887.8
20°	875.9	875.9	871.2	880.7	875.9
22.5°	854.5	854.5	852.2	866.4	861.7
25°	833.2	833.2	835.6	852.2	849.8
27.5°	809.4	811.8	818.9	837.9	835.6
30°	783.3	788.1	799.9	821.3	821.3
32.5°	754.8	759.6	778.6	804.7	804.7
35°	726.4	733.5	759.6	783.3	788.1
37.5°	693.1	705.0	735.9	764.3	769.1
40°	662.3	678.9	712.1	745.4	752.5
42.5°	629.0	650.4	690.8	728.7	735.9
45°	595.8	621.9	667.0	707.4	716.9
47.5°	562.6	591.1	645.7	688.4	702.6
50°	524.6	560.2	619.5	669.4	681.3
52.5°	489.0	529.3	595.8	648.0	664.6
55°	451.0	500.9	572.1	629.0	645.7
57.5°	417.8	467.6	546.0	610.0	626.7
60°	379.8	434.4	522.2	586.3	605.3
62.5°	341.8	405.9	498.5	567.3	588.7
65°	303.8	372.7	474.7	546.0	567.3
67.5°	268.2	341.8	448.6	524.6	548.3
70°	230.3	311.0	424.9	503.2	527.0
72.5°	194.6	282.5	403.5	481.9	508.0
75°	159.0	254.0	379.8	460.5	486.6
77.5°	125.8	227.9	356.1	441.5	470.0
80°	90.2	201.8	334.7	420.1	448.6
82.5°	61.7	178.0	315.7	401.2	427.3
85°	35.6	156.7	294.3	382.2	408.3
87.5°	14.2	137.7	273.0	360.8	389.3
90°	0.0	121.1	256.4	344.2	370.3
92.5°	0.0	106.8	239.7	325.2	353.7
95°	2.4	94.9	223.1	308.6	337.1
97.5°	0.0	83.1	208.9	292.0	318.1
100°	0.0	76.0	194.6	275.4	301.5
102.5°	0.0	66.5	180.4	258.7	284.8
105°	0.0	59.3	166.2	242.1	265.9
107.5°	0.0	54.6	154.3	227.9	249.2
110°	0.0	47.5	142.4	213.6	235.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	42.7	130.6	197.0	218.4
115°	0.0	38.0	121.1	182.8	201.8
117.5°	0.0	35.6	109.2	168.5	187.5
120°	0.0	30.9	99.7	156.7	173.3
122.5°	0.0	28.5	92.6	142.4	159.0
125°	0.0	23.7	83.1	130.6	144.8
127.5°	0.0	21.4	73.6	118.7	130.6
130°	0.0	19.0	66.5	106.8	118.7
132.5°	0.0	16.6	59.3	94.9	106.8
135°	0.0	14.2	52.2	85.5	94.9
137.5°	0.0	11.9	45.1	73.6	83.1
140°	0.0	9.5	38.0	64.1	71.2
142.5°	0.0	7.1	33.2	54.6	61.7
145°	0.0	4.7	26.1	47.5	52.2
147.5°	0.0	4.7	21.4	38.0	42.7
150°	0.0	2.4	14.2	30.9	33.2
152.5°	0.0	2.4	11.9	23.7	23.7
155°	0.0	2.4	7.1	14.2	16.6
157.5°	0.0	0.0	4.7	9.5	9.5
160°	0.0	0.0	2.4	4.7	7.1
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)