

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: P218179

Luminaire Tested: **4SNLED-LD5-22SL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218179  
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-LD5-22SL-LN-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2177.0 lumens  
Efficiency: N/A  
Efficacy: 136.1 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

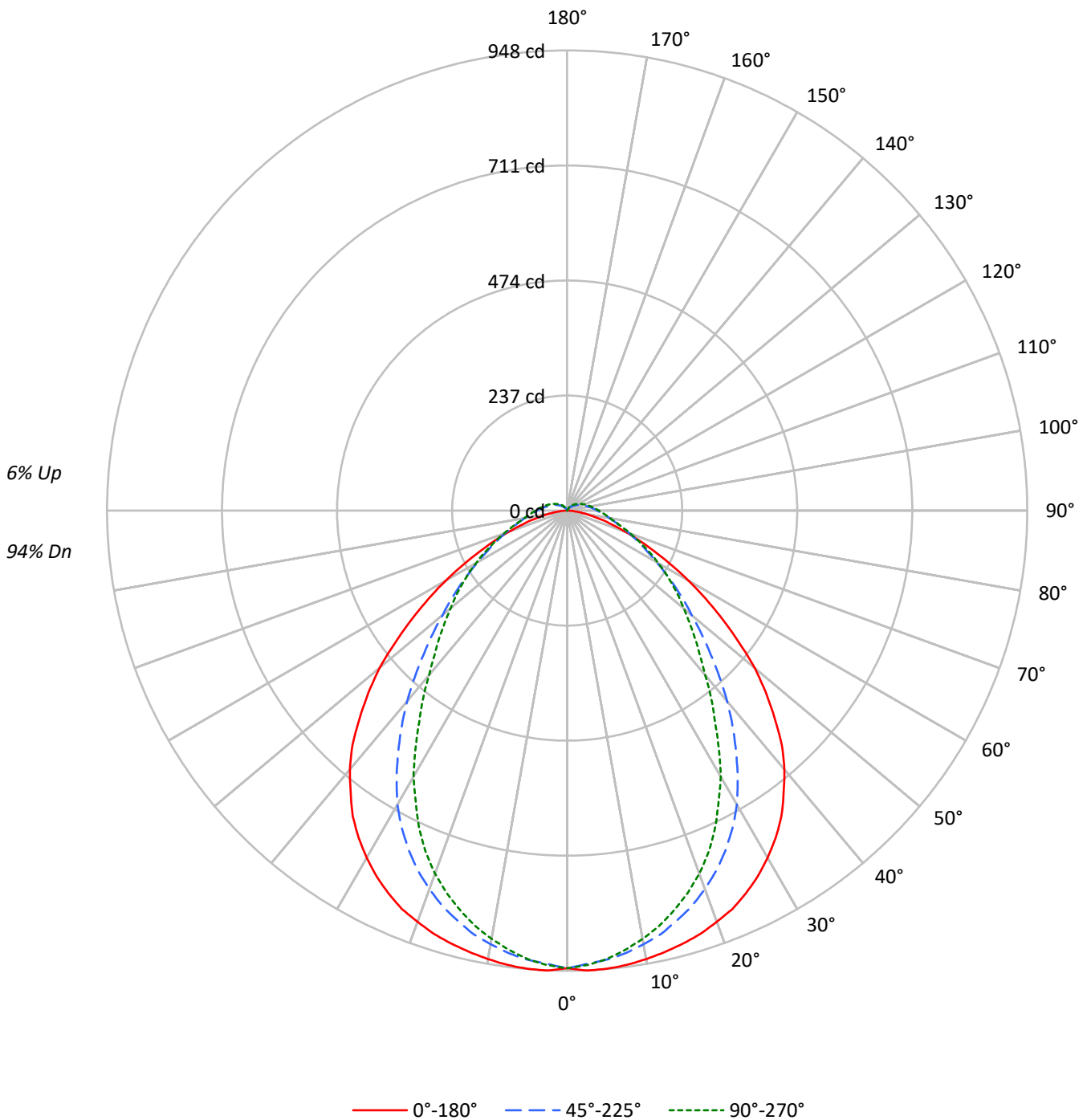
Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	15192	15192	15192
5°	15269	14117	13801
10°	15239	13137	12460
15°	15232	12177	11212
20°	15227	11214	10007
25°	15181	10215	8747
30°	15004	9133	7468
35°	14709	7873	6144
40°	14149	6665	5063
45°	13223	5478	4248
50°	12052	4471	3581
55°	10369	3690	3052
60°	8686	3020	2557
65°	6904	2510	2113
70°	5380	2108	1745
75°	4078	1790	1449
80°	2836	1583	1245
85°	1727	1441	1126



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.6	4.1
10°-20°	248.8	11.4
20°-30°	360.2	16.5
30°-40°	392.1	18.0
40°-50°	348.2	16.0
50°-60°	265.0	12.2
60°-70°	176.0	8.1
70°-80°	107.2	4.9
80°-90°	66.4	3.1
90°-100°	45.4	2.1
100°-110°	31.9	1.5
110°-120°	21.7	1.0
120°-130°	13.8	0.6
130°-140°	7.8	0.4
140°-150°	3.7	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	697.6	32.0
0°-40°	1089.7	50.1
0°-60°	1702.9	78.2
0°-90°	2052.6	94.3
90°-120°	98.9	4.5
90°-150°	124.2	5.7
90°-180°	124.0	5.7
0°-180°	2177.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	943	943	943	943	943	
5°	947	942	929	934	928	90
15°	923	907	874	864	852	261
25°	870	832	772	741	721	401
35°	770	701	607	554	531	479
45°	604	514	418	382	373	466
55°	391	318	270	265	264	351
65°	197	170	170	177	174	199
75°	76	86	108	114	110	82
85°	14	44	73	78	76	16
90°	0	32	62	68	65	1
95°	0	25	53	58	57	0
105°	0	16	38	44	44	0
115°	0	10	28	33	32	0
125°	0	7	18	23	23	0
135°	0	5	13	16	16	0
145°	0	2	7	9	9	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°	942.8	942.8	942.8	942.8	942.8
2.5°	948.5	944.0	934.8	940.5	937.1
5°	947.4	941.7	929.0	933.6	927.9
7.5°	944.0	937.1	919.9	922.2	913.0
10°	938.2	929.0	907.2	905.0	895.8
12.5°	931.3	919.9	893.5	885.5	876.3
15°	923.3	907.2	874.0	863.7	852.2
17.5°	914.1	892.3	854.5	838.4	825.8
20°	901.5	875.1	829.3	809.8	796.0
22.5°	888.9	854.5	802.9	776.5	761.6
25°	870.5	831.6	771.9	740.9	721.4
27.5°	849.9	805.2	737.5	697.4	675.6
30°	825.8	774.2	699.6	652.6	633.1
32.5°	799.4	739.8	653.8	603.3	581.5
35°	769.6	700.8	606.7	554.0	531.0
37.5°	732.9	658.4	559.7	505.8	487.5
40°	696.2	613.6	512.7	462.2	442.7
42.5°	654.9	564.3	464.5	418.6	404.9
45°	604.5	513.8	417.5	381.9	372.8
47.5°	555.1	462.2	375.1	349.8	341.8
50°	504.7	411.8	334.9	318.9	313.1
52.5°	446.2	362.4	301.7	291.3	289.0
55°	391.1	317.7	269.5	264.9	263.8
57.5°	338.4	275.3	239.7	243.2	240.9
60°	289.0	236.3	213.3	217.9	216.8
62.5°	240.9	200.7	189.2	198.4	196.1
65°	197.3	169.8	169.8	176.6	174.3
67.5°	159.4	144.5	151.4	158.3	156.0
70°	127.3	121.6	135.3	141.1	138.8
72.5°	98.6	102.1	119.3	126.2	122.7
75°	75.7	86.0	107.8	113.5	110.1
77.5°	53.9	72.3	97.5	102.1	98.6
80°	37.8	60.8	88.3	92.9	89.5
82.5°	24.1	51.6	80.3	84.9	82.6
85°	13.8	43.6	73.4	78.0	75.7
87.5°	6.9	37.8	66.5	72.3	70.0
90°	0.0	32.1	61.9	67.7	65.4
92.5°	0.0	28.7	57.3	63.1	60.8
95°	0.0	25.2	52.8	58.5	57.3
97.5°	0.0	22.9	49.3	55.1	52.8
100°	0.0	19.5	44.7	50.5	49.3
102.5°	0.0	18.4	41.3	47.0	45.9
105°	0.0	16.1	37.8	43.6	43.6
107.5°	0.0	14.9	35.6	41.3	40.1
110°	0.0	12.6	32.1	37.8	37.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.5	29.8	35.6	34.4
115°	0.0	10.3	27.5	33.3	32.1
117.5°	0.0	10.3	25.2	29.8	29.8
120°	0.0	9.2	22.9	27.5	27.5
122.5°	0.0	8.0	20.6	25.2	25.2
125°	0.0	6.9	18.4	22.9	22.9
127.5°	0.0	6.9	17.2	21.8	21.8
130°	0.0	5.7	14.9	19.5	19.5
132.5°	0.0	4.6	13.8	17.2	17.2
135°	0.0	4.6	12.6	16.1	16.1
137.5°	0.0	3.4	10.3	13.8	13.8
140°	0.0	3.4	9.2	12.6	12.6
142.5°	0.0	2.3	8.0	11.5	10.3
145°	0.0	2.3	6.9	9.2	9.2
147.5°	0.0	1.1	5.7	8.0	8.0
150°	0.0	1.1	4.6	6.9	5.7
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)