

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: P218306

Luminaire Tested: **4SNLED-LD5-23SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218306  
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-LD5-23SL-LW-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2785.0 lumens  
Efficiency: N/A  
Efficacy: 144.3 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

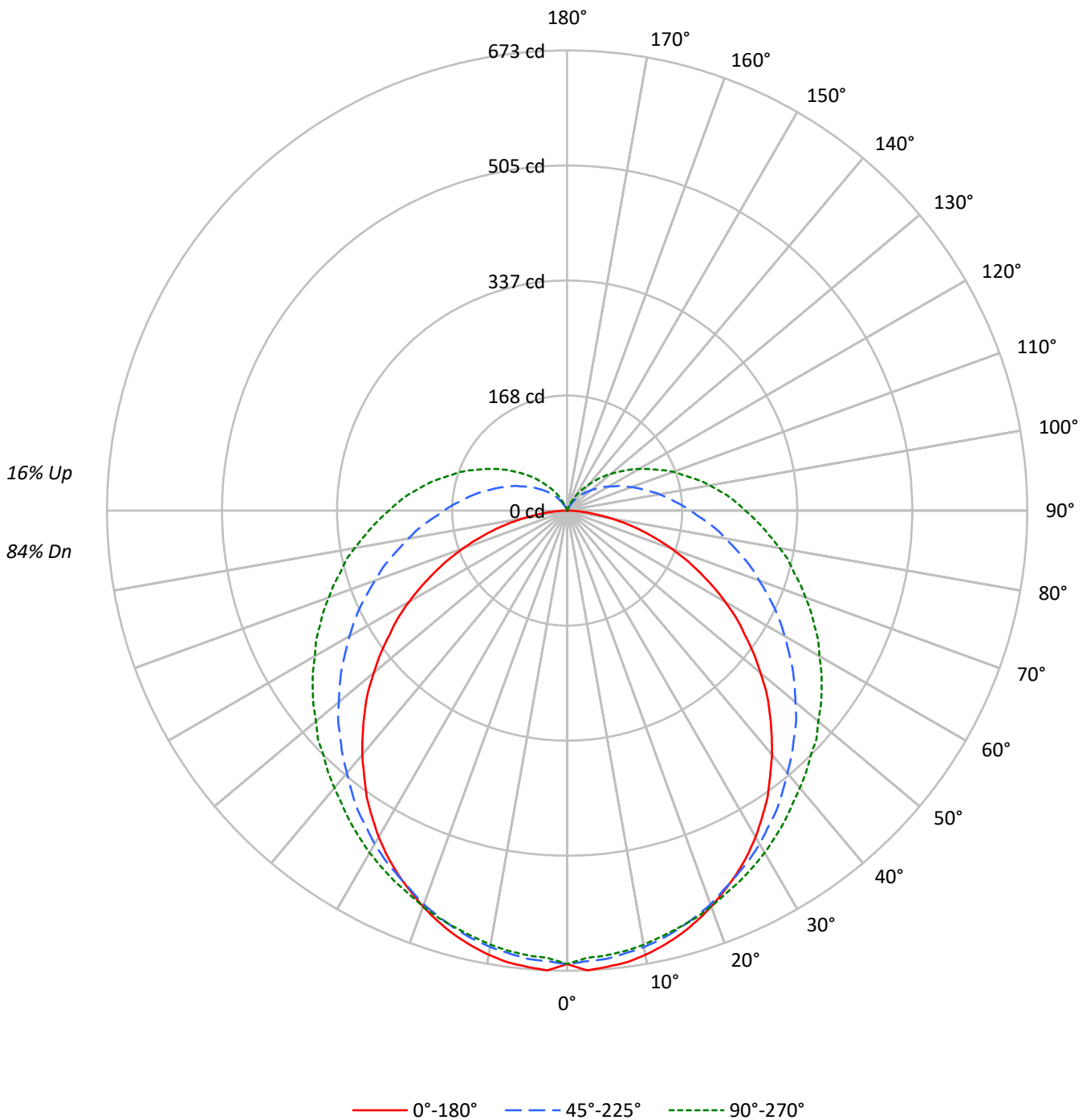
Input Watts (W): 19.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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°	10685	10685	10685
5°	10795	10000	9714
10°	10715	9385	8968
15°	10582	8819	8307
20°	10410	8289	7748
25°	10225	7780	7250
30°	10014	7348	6817
35°	9768	6936	6415
40°	9470	6514	6056
45°	9170	6158	5747
50°	8814	5819	5483
55°	8412	5510	5256
60°	8030	5204	5024
65°	7482	4937	4840
70°	6847	4659	4662
75°	6028	4437	4505
80°	4764	4221	4391
85°	3141	4065	4273



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.8	2.3
10°-20°	179.6	6.4
20°-30°	272.9	9.8
30°-40°	334.0	12.0
40°-50°	360.6	12.9
50°-60°	354.1	12.7
60°-70°	318.9	11.5
70°-80°	264.1	9.5
80°-90°	203.1	7.3
90°-100°	153.1	5.5
100°-110°	112.7	4.0
110°-120°	77.7	2.8
120°-130°	49.3	1.8
130°-140°	27.3	1.0
140°-150°	11.8	0.4
150°-160°	3.0	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	515.3	18.5
0°-40°	849.4	30.5
0°-60°	1564.1	56.2
0°-90°	2350.1	84.4
90°-120°	343.5	12.3
90°-150°	431.9	15.5
90°-180°	435.0	15.6
0°-180°	2785.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	663	663	663	663	663	
5°	670	666	658	658	653	64
15°	641	640	633	636	631	181
25°	586	586	588	600	598	270
35°	511	516	534	551	554	319
45°	419	438	469	498	504	323
55°	317	352	402	443	454	285
65°	214	262	334	384	399	212
75°	112	179	267	324	342	119
85°	25	110	207	269	287	29
90°	0	85	180	242	261	1
95°	2	67	157	217	237	0
105°	0	42	117	170	187	0
115°	0	27	85	129	142	0
125°	0	17	58	92	102	0
135°	0	10	37	60	67	0
145°	0	3	18	33	37	0
155°	0	2	5	10	12	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°	663.1	663.1	663.1	663.1	663.1
2.5°	673.1	668.1	659.7	659.7	654.7
5°	669.8	666.4	658.1	658.1	653.1
7.5°	666.4	663.1	653.1	654.7	649.7
10°	659.7	656.4	648.1	649.7	644.7
12.5°	651.4	648.1	641.4	643.0	638.0
15°	641.4	639.7	633.0	636.4	631.4
17.5°	629.7	628.0	623.0	628.0	624.7
20°	616.3	616.3	613.0	619.7	616.3
22.5°	601.3	601.3	599.6	609.6	606.3
25°	586.3	586.3	587.9	599.6	597.9
27.5°	569.6	571.2	576.2	589.6	587.9
30°	551.2	554.5	562.9	577.9	577.9
32.5°	531.1	534.5	547.8	566.2	566.2
35°	511.1	516.1	534.5	551.2	554.5
37.5°	487.7	496.1	517.8	537.8	541.2
40°	466.0	477.7	501.1	524.5	529.5
42.5°	442.6	457.6	486.0	512.8	517.8
45°	419.2	437.6	469.3	497.7	504.4
47.5°	395.8	415.9	454.3	484.4	494.4
50°	369.1	394.2	435.9	471.0	479.4
52.5°	344.1	372.5	419.2	456.0	467.7
55°	317.3	352.4	402.5	442.6	454.3
57.5°	294.0	329.0	384.2	429.3	440.9
60°	267.2	305.7	367.5	412.6	425.9
62.5°	240.5	285.6	350.8	399.2	414.2
65°	213.8	262.2	334.0	384.2	399.2
67.5°	188.7	240.5	315.7	369.1	385.8
70°	162.0	218.8	299.0	354.1	370.8
72.5°	137.0	198.8	283.9	339.1	357.4
75°	111.9	178.7	267.2	324.0	342.4
77.5°	88.5	160.3	250.5	310.7	330.7
80°	63.5	142.0	235.5	295.6	315.7
82.5°	43.4	125.3	222.1	282.3	300.6
85°	25.1	110.2	207.1	268.9	287.3
87.5°	10.0	96.9	192.1	253.9	273.9
90°	0.0	85.2	180.4	242.2	260.6
92.5°	0.0	75.2	168.7	228.8	248.9
95°	1.7	66.8	157.0	217.1	237.2
97.5°	0.0	58.5	147.0	205.4	223.8
100°	0.0	53.4	137.0	193.7	212.1
102.5°	0.0	46.8	126.9	182.1	200.4
105°	0.0	41.8	116.9	170.4	187.1
107.5°	0.0	38.4	108.6	160.3	175.4
110°	0.0	33.4	100.2	150.3	165.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	30.1	91.9	138.6	153.7
115°	0.0	26.7	85.2	128.6	142.0
117.5°	0.0	25.1	76.8	118.6	131.9
120°	0.0	21.7	70.2	110.2	121.9
122.5°	0.0	20.0	65.1	100.2	111.9
125°	0.0	16.7	58.5	91.9	101.9
127.5°	0.0	15.0	51.8	83.5	91.9
130°	0.0	13.4	46.8	75.2	83.5
132.5°	0.0	11.7	41.8	66.8	75.2
135°	0.0	10.0	36.7	60.1	66.8
137.5°	0.0	8.4	31.7	51.8	58.5
140°	0.0	6.7	26.7	45.1	50.1
142.5°	0.0	5.0	23.4	38.4	43.4
145°	0.0	3.3	18.4	33.4	36.7
147.5°	0.0	3.3	15.0	26.7	30.1
150°	0.0	1.7	10.0	21.7	23.4
152.5°	0.0	1.7	8.4	16.7	16.7
155°	0.0	1.7	5.0	10.0	11.7
157.5°	0.0	0.0	3.3	6.7	6.7
160°	0.0	0.0	1.7	3.3	5.0
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)