

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: P218305

Luminaire Tested: **4SNLED-LD5-23SL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218305  
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-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2574.0 lumens  
Efficiency: N/A  
Efficacy: 133.4 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

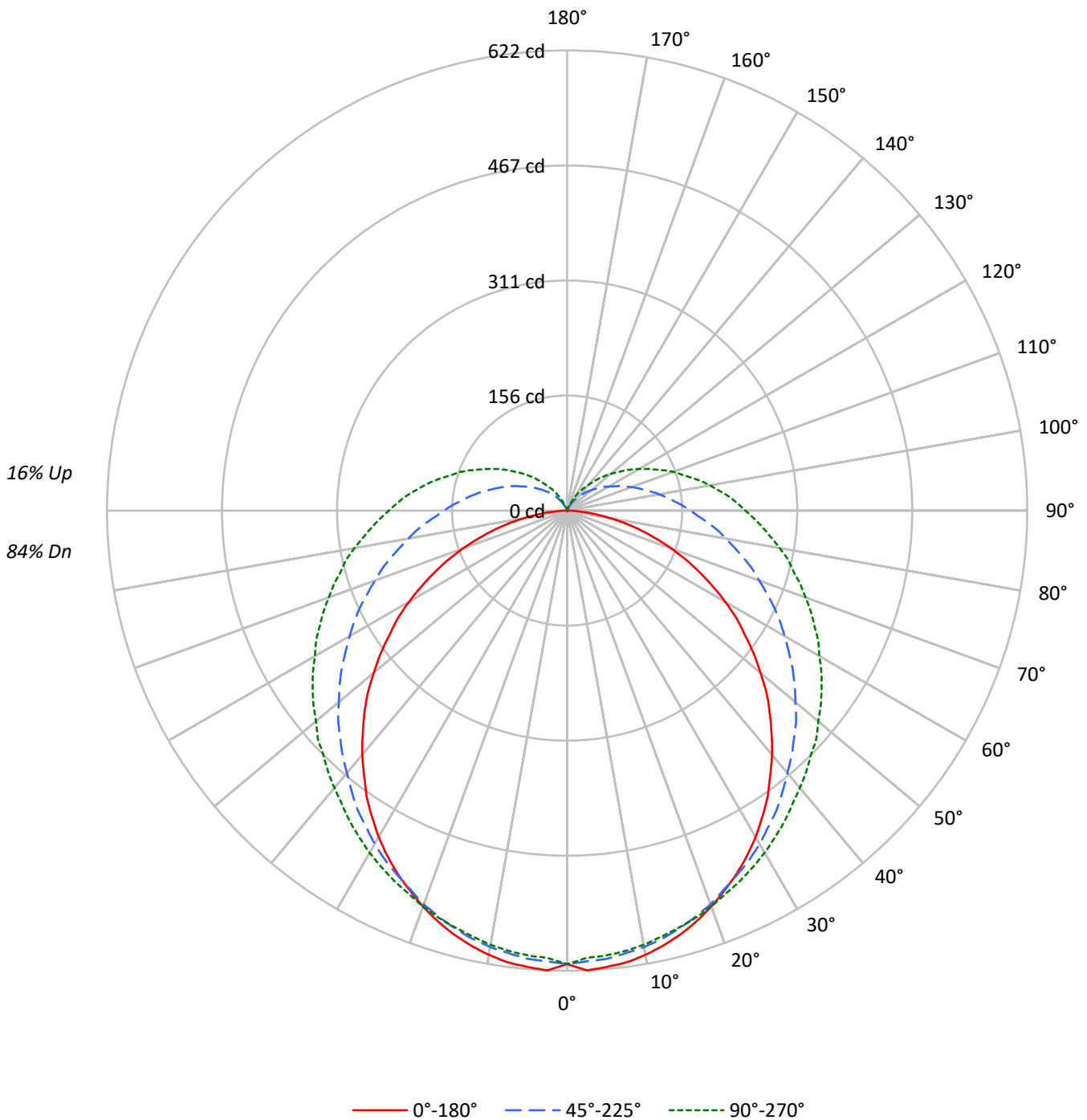
Input Watts (W): 19.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	65
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°	9876	9876	9876
5°	9976	9242	8978
10°	9905	8674	8289
15°	9780	8152	7677
20°	9621	7660	7161
25°	9449	7191	6700
30°	9255	6791	6300
35°	9029	6411	5930
40°	8753	6020	5598
45°	8477	5692	5312
50°	8148	5378	5067
55°	7776	5093	4858
60°	7423	4809	4643
65°	6915	4563	4473
70°	6327	4305	4308
75°	5570	4102	4164
80°	4404	3902	4059
85°	2904	3757	3949



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.0	2.3
10°-20°	166.0	6.4
20°-30°	252.3	9.8
30°-40°	308.7	12.0
40°-50°	333.3	12.9
50°-60°	327.2	12.7
60°-70°	294.7	11.5
70°-80°	244.1	9.5
80°-90°	187.7	7.3
90°-100°	141.5	5.5
100°-110°	104.1	4.0
110°-120°	71.8	2.8
120°-130°	45.5	1.8
130°-140°	25.2	1.0
140°-150°	10.9	0.4
150°-160°	2.7	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	476.3	18.5
0°-40°	785.0	30.5
0°-60°	1445.6	56.2
0°-90°	2172.1	84.4
90°-120°	317.4	12.3
90°-150°	399.1	15.5
90°-180°	402.0	15.6
0°-180°	2574.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	613	613	613	613	613	
5°	619	616	608	608	604	59
15°	593	591	585	588	584	167
25°	542	542	543	554	553	250
35°	472	477	494	509	512	295
45°	388	404	434	460	466	299
55°	293	326	372	409	420	263
65°	198	242	309	355	369	196
75°	103	165	247	300	316	110
85°	23	102	191	248	266	26
90°	0	79	167	224	241	1
95°	2	62	145	201	219	0
105°	0	39	108	158	173	0
115°	0	25	79	119	131	0
125°	0	15	54	85	94	0
135°	0	9	34	56	62	0
145°	0	3	17	31	34	0
155°	0	2	5	9	11	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°	612.9	612.9	612.9	612.9	612.9
2.5°	622.1	617.5	609.8	609.8	605.1
5°	619.0	615.9	608.2	608.2	603.6
7.5°	615.9	612.9	603.6	605.1	600.5
10°	609.8	606.7	599.0	600.5	595.9
12.5°	602.0	599.0	592.8	594.3	589.7
15°	592.8	591.2	585.1	588.2	583.5
17.5°	582.0	580.4	575.8	580.4	577.3
20°	569.6	569.6	566.5	572.7	569.6
22.5°	555.7	555.7	554.2	563.5	560.4
25°	541.8	541.8	543.4	554.2	552.6
27.5°	526.4	527.9	532.6	544.9	543.4
30°	509.4	512.5	520.2	534.1	534.1
32.5°	490.9	494.0	506.3	523.3	523.3
35°	472.4	477.0	494.0	509.4	512.5
37.5°	450.8	458.5	478.5	497.1	500.2
40°	430.7	441.5	463.1	484.7	489.4
42.5°	409.1	423.0	449.2	473.9	478.5
45°	387.5	404.5	433.8	460.0	466.2
47.5°	365.9	384.4	419.9	447.7	456.9
50°	341.2	364.3	402.9	435.3	443.0
52.5°	318.0	344.2	387.5	421.4	432.2
55°	293.3	325.7	372.0	409.1	419.9
57.5°	271.7	304.1	355.1	396.7	407.5
60°	247.0	282.5	339.6	381.3	393.6
62.5°	222.3	264.0	324.2	368.9	382.8
65°	197.6	242.4	308.7	355.1	368.9
67.5°	174.4	222.3	291.8	341.2	356.6
70°	149.7	202.2	276.3	327.3	342.7
72.5°	126.6	183.7	262.4	313.4	330.4
75°	103.4	165.2	247.0	299.5	316.5
77.5°	81.8	148.2	231.6	287.1	305.7
80°	58.7	131.2	217.7	273.2	291.8
82.5°	40.1	115.8	205.3	260.9	277.9
85°	23.2	101.9	191.4	248.5	265.5
87.5°	9.3	89.5	177.5	234.6	253.2
90°	0.0	78.7	166.7	223.8	240.8
92.5°	0.0	69.5	155.9	211.5	230.0
95°	1.5	61.7	145.1	200.7	219.2
97.5°	0.0	54.0	135.8	189.9	206.9
100°	0.0	49.4	126.6	179.1	196.1
102.5°	0.0	43.2	117.3	168.3	185.2
105°	0.0	38.6	108.1	157.5	172.9
107.5°	0.0	35.5	100.3	148.2	162.1
110°	0.0	30.9	92.6	138.9	152.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	27.8	84.9	128.1	142.0
115°	0.0	24.7	78.7	118.9	131.2
117.5°	0.0	23.2	71.0	109.6	122.0
120°	0.0	20.1	64.8	101.9	112.7
122.5°	0.0	18.5	60.2	92.6	103.4
125°	0.0	15.4	54.0	84.9	94.2
127.5°	0.0	13.9	47.9	77.2	84.9
130°	0.0	12.3	43.2	69.5	77.2
132.5°	0.0	10.8	38.6	61.7	69.5
135°	0.0	9.3	34.0	55.6	61.7
137.5°	0.0	7.7	29.3	47.9	54.0
140°	0.0	6.2	24.7	41.7	46.3
142.5°	0.0	4.6	21.6	35.5	40.1
145°	0.0	3.1	17.0	30.9	34.0
147.5°	0.0	3.1	13.9	24.7	27.8
150°	0.0	1.5	9.3	20.1	21.6
152.5°	0.0	1.5	7.7	15.4	15.4
155°	0.0	1.5	4.6	9.3	10.8
157.5°	0.0	0.0	3.1	6.2	6.2
160°	0.0	0.0	1.5	3.1	4.6
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)