

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: P218493

Luminaire Tested: **8TSNLED-LD5-78SL-RM-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35688)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8TSNLED-LD5-78SL-RM-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8540.9 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.46 / 0.67  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')  
CIE Type: Direct

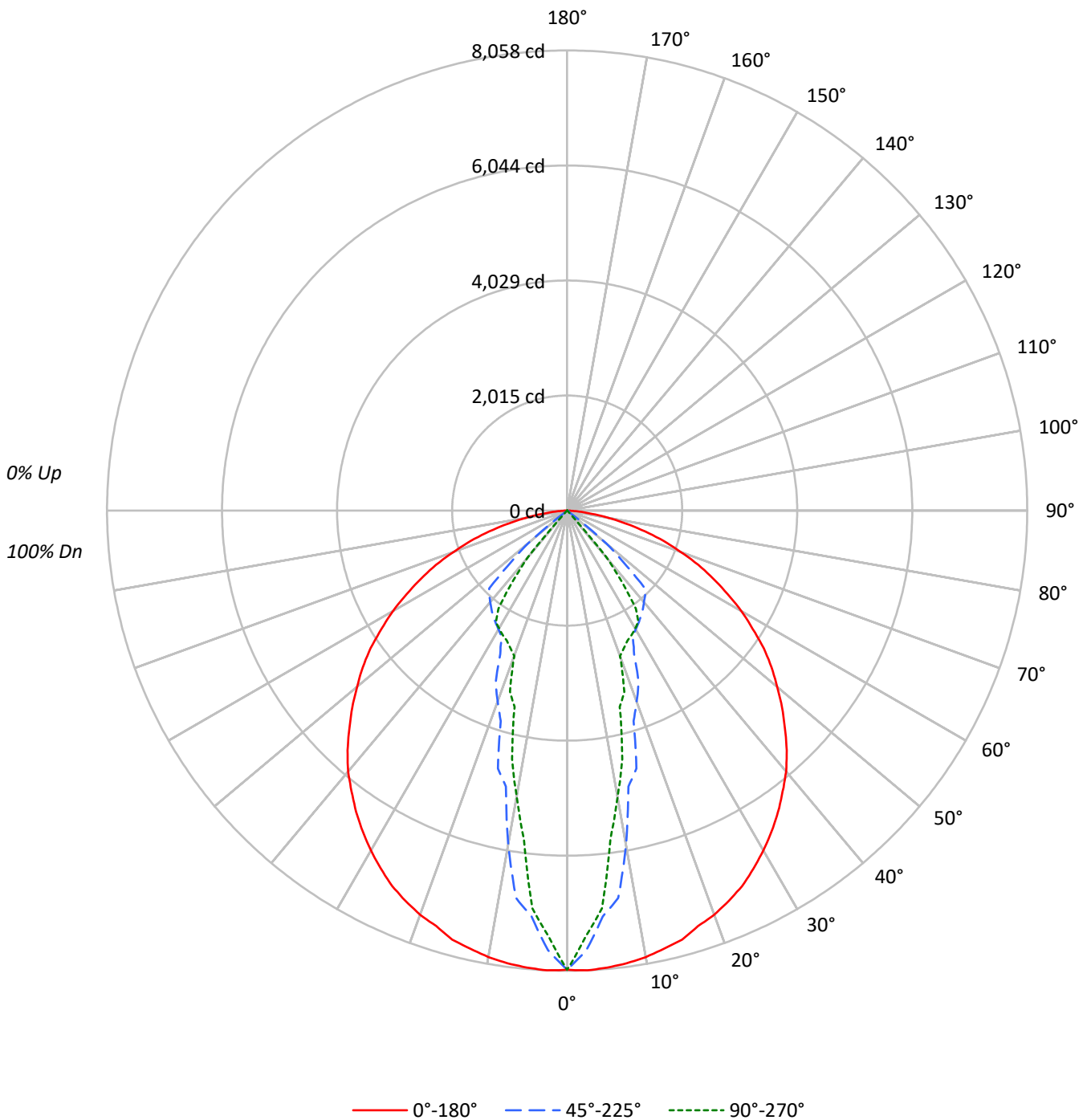
Input Watts (W): 55.38  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62					62			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56					56			
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	62	57	53	51					51			
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43					43			
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	64791	64791	64791
5°	64853	54266	52008
10°	64708	43083	35372
15°	64512	32690	23409
20°	64074	24134	17023
25°	63858	18451	15192
30°	63184	15777	14049
35°	62429	14726	12132
40°	61660	13709	6091
45°	60175	12757	23
50°	58717	6064	0
55°	57322	200	0
60°	54826	148	0
65°	51525	62	0
70°	47088	32	0
75°	40775	35	27
80°	30144	37	29
85°	15710	41	30



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	663.7	7.8
10°-20°	1430.7	16.8
20°-30°	1706.8	20.0
30°-40°	1816.1	21.3
40°-50°	1326.9	15.5
50°-60°	847.5	9.9
60°-70°	510.2	6.0
70°-80°	198.8	2.3
80°-90°	40.3	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3801.1	44.5
0°-40°	5617.2	65.8
0°-60°	7791.5	91.2
0°-90°	8540.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8540.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8042	8042	8042	8042	8042	
5°	8034	7641	7134	7006	6993	764
15°	7778	6634	4677	3645	3558	2190
25°	7253	4624	2774	2526	2506	3338
35°	6440	3055	2254	2254	2097	4029
45°	5392	1977	1928	8	4	4165
55°	4202	1560	29	4	0	3741
65°	2824	636	8	4	0	2794
75°	1412	33	4	4	4	1491
85°	210	4	4	4	4	293
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8041.8	8041.8	8041.8	8041.8	8041.8
2.5°	8058.3	8004.6	7707.4	7583.5	7463.8
5°	8033.5	7641.3	7133.6	7005.6	6993.2
7.5°	7996.4	7273.9	6844.6	6109.8	5800.2
10°	7938.6	7034.5	5936.4	5317.2	5086.0
12.5°	7856.0	6679.5	4949.7	4594.7	4458.5
15°	7777.6	6634.1	4677.3	3645.2	3558.5
17.5°	7629.0	5709.3	3864.0	3426.4	3327.3
20°	7529.9	5288.3	3554.4	2972.3	2708.1
22.5°	7397.8	5040.6	3269.6	2704.0	2600.8
25°	7253.3	4623.6	2774.2	2526.5	2505.8
27.5°	7067.5	4066.3	2485.2	2460.4	2452.2
30°	6873.5	3451.2	2402.6	2394.4	2382.0
32.5°	6663.0	3207.6	2328.3	2328.3	2315.9
35°	6440.0	3054.9	2254.0	2254.0	2097.1
37.5°	6200.6	2860.9	2179.7	2179.7	1577.0
40°	5965.3	2452.2	2093.0	1453.1	1065.1
42.5°	5692.8	2117.8	2018.7	1015.5	8.3
45°	5391.5	1977.4	1927.9	8.3	4.1
47.5°	5106.6	1878.3	1312.8	4.1	0.0
50°	4801.1	1771.0	900.0	4.1	0.0
52.5°	4512.1	1671.9	41.3	4.1	0.0
55°	4202.5	1560.5	28.9	4.1	0.0
57.5°	3851.6	1453.1	24.8	4.1	0.0
60°	3525.5	1337.5	20.6	4.1	0.0
62.5°	3166.3	1135.3	12.4	4.1	0.0
65°	2823.7	635.7	8.3	4.1	0.0
67.5°	2485.2	103.2	8.3	4.1	0.0
70°	2113.6	70.2	4.1	4.1	0.0
72.5°	1771.0	53.7	4.1	4.1	4.1
75°	1411.9	33.0	4.1	4.1	4.1
77.5°	1056.8	20.6	4.1	4.1	4.1
80°	726.6	12.4	4.1	4.1	4.1
82.5°	437.6	4.1	4.1	4.1	4.1
85°	210.5	4.1	4.1	4.1	4.1
87.5°	66.1	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)