

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: P218509

Luminaire Tested: **8TSNLED-LD5-109SL-RM-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218509  
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-LD5-109SL-RM-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12114.1 lumens  
Efficiency: N/A  
Efficacy: 141.5 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

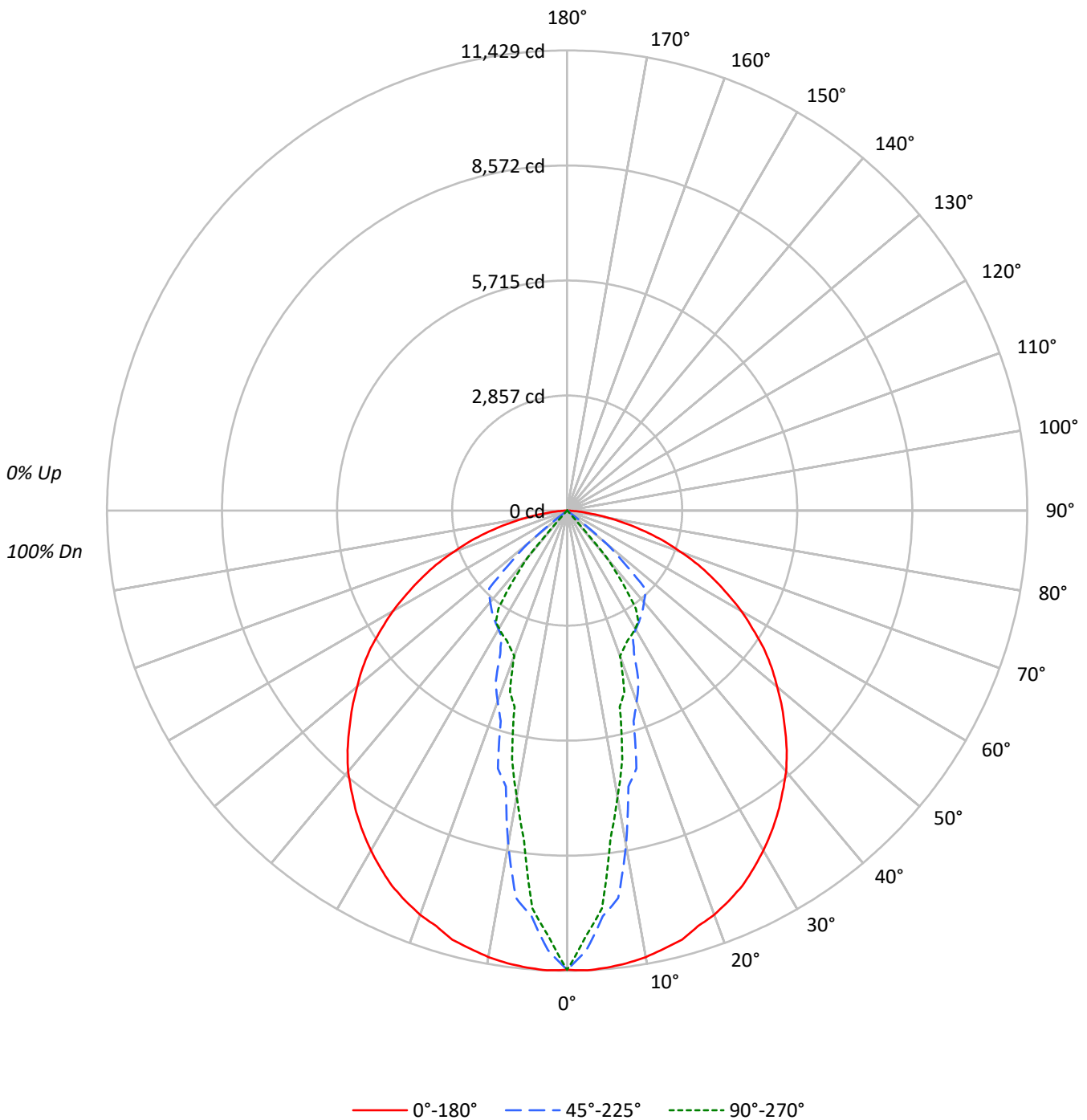
Input Watts (W): 85.64  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	91895	91895	91895
5°	91984	76968	73765
10°	91778	61106	50169
15°	91500	46365	33202
20°	90878	34230	24144
25°	90572	26169	21547
30°	89616	22377	19926
35°	88545	20886	17207
40°	87454	19444	8639
45°	85348	18094	34
50°	83281	8600	0
55°	81303	284	0
60°	77761	210	0
65°	73080	88	0
70°	66790	47	0
75°	57831	50	39
80°	42751	54	41
85°	22286	59	44



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	941.3	7.8
10°-20°	2029.2	16.8
20°-30°	2420.8	20.0
30°-40°	2575.8	21.3
40°-50°	1881.9	15.5
50°-60°	1202.0	9.9
60°-70°	723.7	6.0
70°-80°	282.1	2.3
80°-90°	57.3	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°	5391.3	44.5
0°-40°	7967.1	65.8
0°-60°	11051.0	91.2
0°-90°	12114.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12114.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11406	11406	11406	11406	11406	
5°	11394	10838	10118	9936	9919	###
15°	11031	9409	6634	5170	5047	3107
25°	10288	6558	3935	3583	3554	4734
35°	9134	4333	3197	3197	2974	5714
45°	7647	2805	2734	12	6	5907
55°	5961	2213	41	6	0	5306
65°	4005	902	12	6	0	3963
75°	2002	47	6	6	6	2115
85°	299	6	6	6	6	415
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11405.9	11405.9	11405.9	11405.9	11405.9
2.5°	11429.4	11353.2	10931.7	10756.0	10586.2
5°	11394.2	10838.0	10117.8	9936.3	9918.7
7.5°	11341.5	10316.9	9707.9	8665.7	8226.6
10°	11259.6	9977.3	8419.8	7541.5	7213.6
12.5°	11142.5	9473.7	7020.4	6516.8	6323.6
15°	11031.2	9409.3	6633.9	5170.1	5047.2
17.5°	10820.4	8097.7	5480.5	4859.8	4719.3
20°	10679.9	7500.5	5041.3	4215.7	3841.0
22.5°	10492.5	7149.2	4637.3	3835.2	3688.8
25°	10287.6	6557.8	3934.7	3583.4	3554.1
27.5°	10024.1	5767.4	3524.8	3489.7	3478.0
30°	9748.9	4894.9	3407.7	3396.0	3378.5
32.5°	9450.3	4549.5	3302.3	3302.3	3284.8
35°	9134.1	4332.8	3196.9	3196.9	2974.4
37.5°	8794.5	4057.7	3091.5	3091.5	2236.7
40°	8460.8	3478.0	2968.6	2061.0	1510.6
42.5°	8074.3	3003.7	2863.2	1440.4	11.7
45°	7646.9	2804.6	2734.4	11.7	5.9
47.5°	7242.9	2664.1	1862.0	5.9	0.0
50°	6809.6	2511.9	1276.4	5.9	0.0
52.5°	6399.7	2371.4	58.6	5.9	0.0
55°	5960.6	2213.3	41.0	5.9	0.0
57.5°	5462.9	2061.0	35.1	5.9	0.0
60°	5000.3	1897.1	29.3	5.9	0.0
62.5°	4490.9	1610.2	17.6	5.9	0.0
65°	4005.0	901.7	11.7	5.9	0.0
67.5°	3524.8	146.4	11.7	5.9	0.0
70°	2997.9	99.5	5.9	5.9	0.0
72.5°	2511.9	76.1	5.9	5.9	5.9
75°	2002.5	46.8	5.9	5.9	5.9
77.5°	1498.9	29.3	5.9	5.9	5.9
80°	1030.5	17.6	5.9	5.9	5.9
82.5°	620.7	5.9	5.9	5.9	5.9
85°	298.6	5.9	5.9	5.9	5.9
87.5°	93.7	5.9	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)