

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: P218517

Luminaire Tested: **8TSNLED-LD5-160HL-RM-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218517  
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-LD5-160HL-RM-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15950.0 lumens  
Efficiency: N/A  
Efficacy: 129.0 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

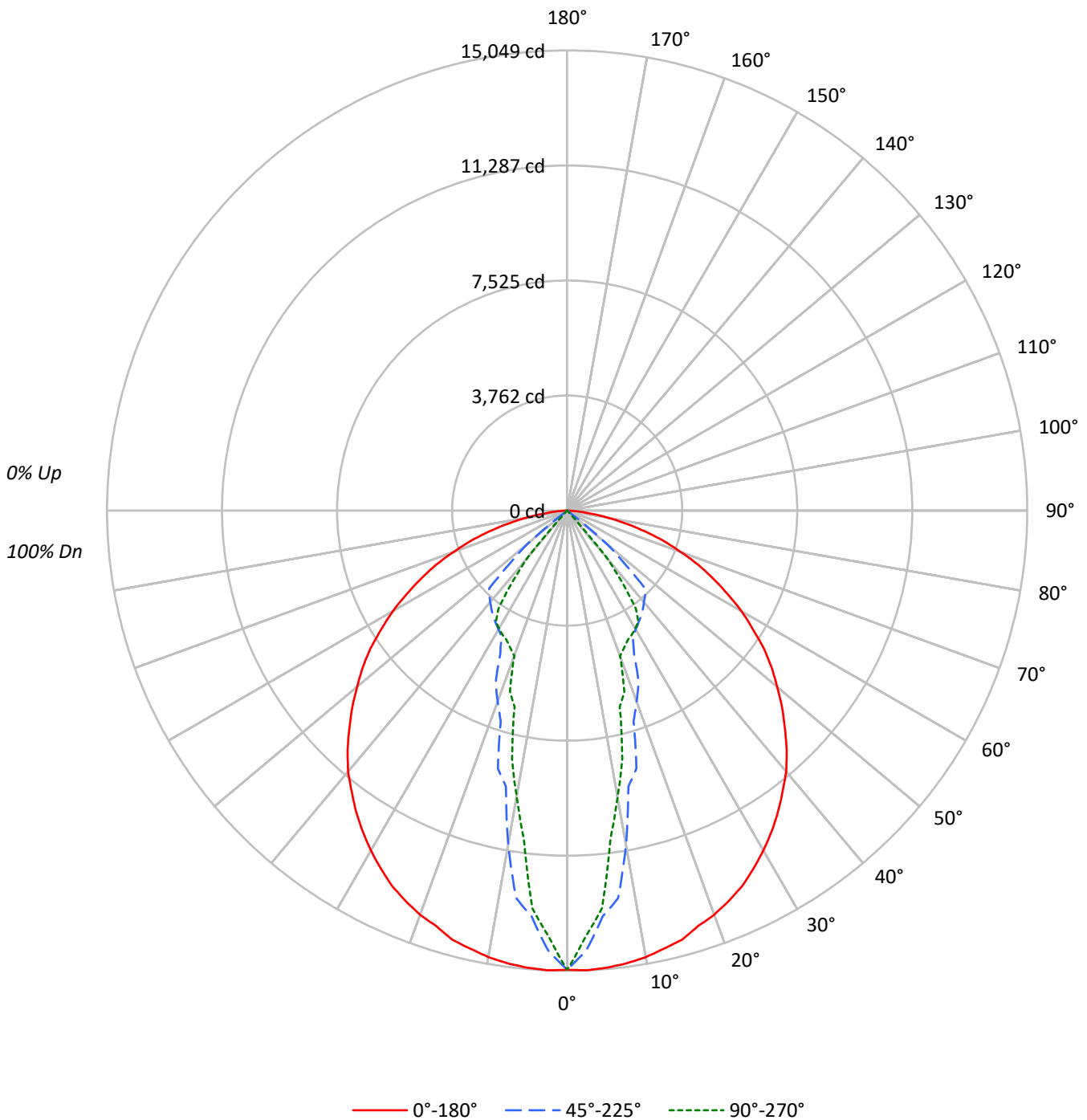
Input Watts (W): 123.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92	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°	120995	120995	120995
5°	121111	101340	97124
10°	120840	80455	66056
15°	120474	61048	43716
20°	119655	45069	31790
25°	119252	34456	28370
30°	117994	29463	26236
35°	116583	27501	22655
40°	115146	25601	11375
45°	112373	23824	44
50°	109652	11323	0
55°	107048	373	0
60°	102385	276	0
65°	96221	115	0
70°	87939	61	0
75°	76143	65	51
80°	56288	70	54
85°	29346	77	57



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1239.4	7.8
10°-20°	2671.7	16.8
20°-30°	3187.4	20.0
30°-40°	3391.4	21.3
40°-50°	2477.8	15.5
50°-60°	1582.6	9.9
60°-70°	952.9	6.0
70°-80°	371.4	2.3
80°-90°	75.3	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°	7098.5	44.5
0°-40°	10489.9	65.8
0°-60°	14550.4	91.2
0°-90°	15950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15950.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15018	15018	15018	15018	15018	
5°	15002	14270	13322	13083	13060	###
15°	14524	12389	8735	6807	6645	4091
25°	13545	8634	5181	4718	4680	6233
35°	12026	5705	4209	4209	3916	7523
45°	10068	3693	3600	15	8	7777
55°	7848	2914	54	8	0	6987
65°	5273	1187	15	8	0	5218
75°	2637	62	8	8	8	2785
85°	393	8	8	8	8	547
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15017.7	15017.7	15017.7	15017.7	15017.7
2.5°	15048.6	14948.3	14393.3	14162.0	13938.4
5°	15002.3	14269.9	13321.7	13082.7	13059.6
7.5°	14932.9	13583.8	12782.0	11409.8	10831.6
10°	14825.0	13136.7	11086.0	9929.6	9497.9
12.5°	14670.8	12473.7	9243.5	8580.5	8326.0
15°	14524.3	12388.8	8734.6	6807.3	6645.4
17.5°	14246.8	10662.0	7215.9	6398.7	6213.7
20°	14061.8	9875.6	6637.7	5550.7	5057.3
22.5°	13815.1	9413.1	6105.8	5049.6	4856.9
25°	13545.2	8634.4	5180.7	4718.1	4679.5
27.5°	13198.3	7593.7	4641.0	4594.7	4579.3
30°	12836.0	6445.0	4486.8	4471.4	4448.3
32.5°	12442.8	5990.1	4348.0	4348.0	4324.9
35°	12026.5	5704.9	4209.3	4209.3	3916.3
37.5°	11579.4	5342.5	4070.5	4070.5	2945.0
40°	11139.9	4579.3	3908.6	2713.7	1989.0
42.5°	10631.1	3954.9	3769.8	1896.5	15.4
45°	10068.3	3692.8	3600.2	15.4	7.7
47.5°	9536.4	3507.7	2451.6	7.7	0.0
50°	8965.9	3307.3	1680.6	7.7	0.0
52.5°	8426.3	3122.3	77.1	7.7	0.0
55°	7848.1	2914.1	54.0	7.7	0.0
57.5°	7192.8	2713.7	46.3	7.7	0.0
60°	6583.7	2497.8	38.5	7.7	0.0
62.5°	5913.0	2120.1	23.1	7.7	0.0
65°	5273.2	1187.2	15.4	7.7	0.0
67.5°	4641.0	192.7	15.4	7.7	0.0
70°	3947.2	131.1	7.7	7.7	0.0
72.5°	3307.3	100.2	7.7	7.7	7.7
75°	2636.6	61.7	7.7	7.7	7.7
77.5°	1973.6	38.5	7.7	7.7	7.7
80°	1356.8	23.1	7.7	7.7	7.7
82.5°	817.2	7.7	7.7	7.7	7.7
85°	393.2	7.7	7.7	7.7	7.7
87.5°	123.3	7.7	7.7	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)