

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: P218539

Luminaire Tested: **8TSNLED-LD5-86SL-RW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35689)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8TSNLED-LD5-86SL-RW-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10186.0 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.19 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')  
CIE Type: Direct

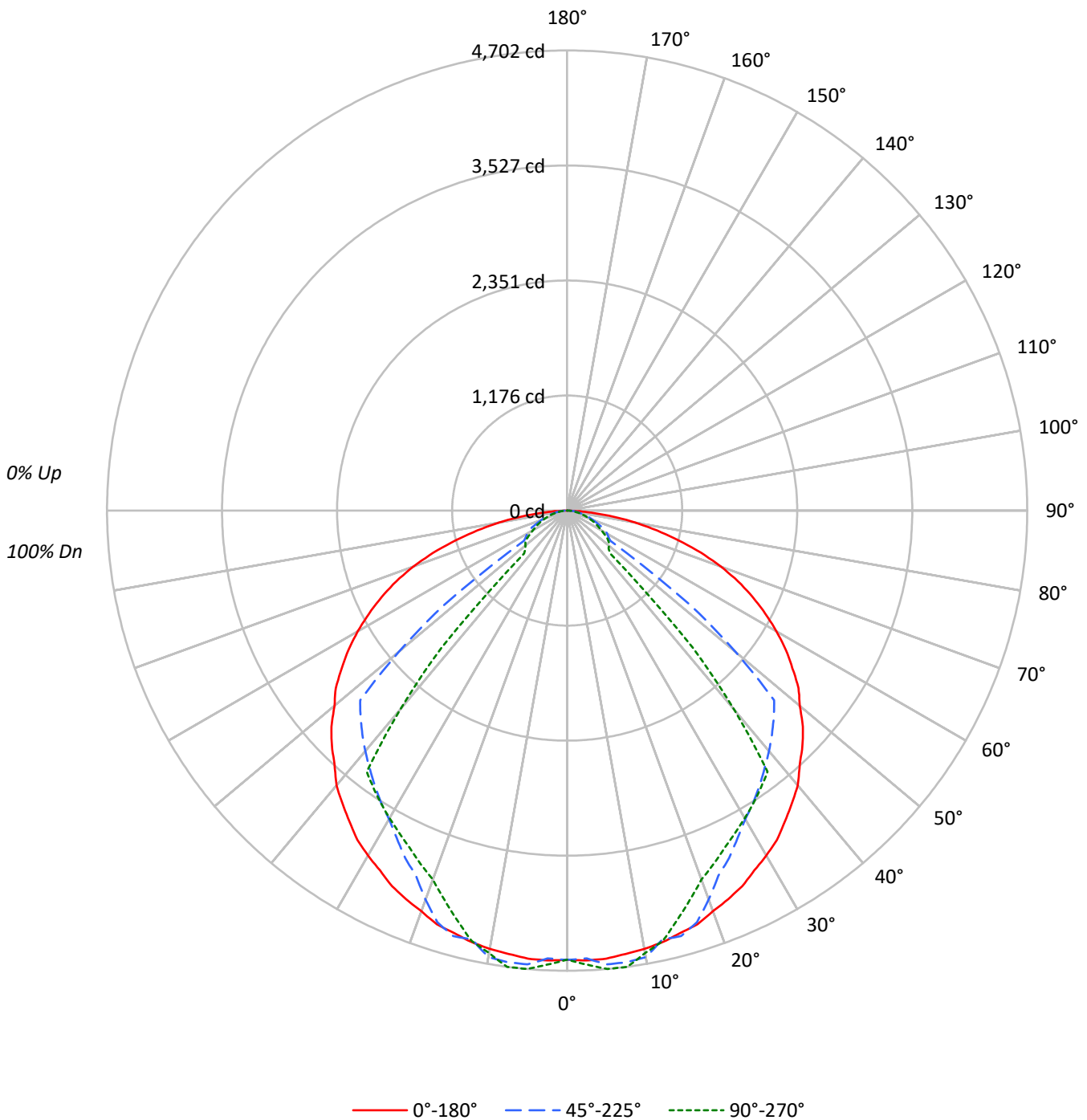
Input Watts (W): 69.18  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87					87			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75					75			
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65					65			
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57					57			
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	50					50			
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45					45			
7	69	57	49	43	68	56	48	43	54	48	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30					30			

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

	0°	45°	90°
0°	36984	36984	36984
5°	37100	35405	34969
10°	37070	33623	31925
15°	37062	31452	28520
20°	37071	28715	25215
25°	37280	26043	23063
30°	37410	23898	21403
35°	37598	22389	19978
40°	37893	21019	15222
45°	37951	19759	3541
50°	37947	15142	3191
55°	38337	3711	2920
60°	38420	3386	2382
65°	38197	2862	1965
70°	37168	2224	1536
75°	34063	1657	1118
80°	29094	1113	702
85°	18636	638	316



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.1	4.4
10°-20°	1256.2	12.3
20°-30°	1850.2	18.2
30°-40°	2226.9	21.9
40°-50°	1907.3	18.7
50°-60°	1234.1	12.1
60°-70°	820.4	8.1
70°-80°	349.9	3.4
80°-90°	97.8	1.0
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°	3549.5	34.8
0°-40°	5776.4	56.7
0°-60°	8917.8	87.5
0°-90°	10186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10186.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4590	4590	4590	4590	4590	
5°	4596	4612	4654	4707	4702	437
15°	4468	4590	4500	4404	4335	1264
25°	4234	4261	3916	3831	3804	1950
35°	3878	3730	3427	3453	3453	2431
45°	3400	3023	2986	1822	622	2622
55°	2811	2386	537	510	505	2513
65°	2093	1504	382	329	324	2064
75°	1180	276	197	175	170	1250
85°	250	74	64	48	42	319
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4590.4	4590.4	4590.4	4590.4	4590.4
2.5°	4601.0	4585.1	4579.8	4638.2	4643.5
5°	4595.7	4611.7	4654.2	4707.3	4702.0
7.5°	4569.2	4622.3	4654.2	4733.9	4702.0
10°	4547.9	4643.5	4632.9	4638.2	4590.4
12.5°	4516.0	4606.4	4489.5	4569.2	4505.4
15°	4468.2	4590.4	4500.1	4404.5	4335.4
17.5°	4431.0	4558.5	4409.8	4181.3	4170.7
20°	4356.6	4425.7	4229.1	4064.4	4011.3
22.5°	4298.2	4377.9	4037.9	3926.3	3910.4
25°	4234.4	4261.0	3915.7	3830.7	3804.1
27.5°	4144.1	4197.3	3772.2	3729.7	3713.8
30°	4069.7	4069.7	3639.4	3639.4	3628.8
32.5°	3990.0	3899.7	3538.4	3543.8	3543.8
35°	3878.5	3729.7	3426.9	3453.4	3453.4
37.5°	3772.2	3522.5	3315.3	3357.8	3363.1
40°	3666.0	3363.1	3209.0	3256.9	2661.8
42.5°	3517.2	3187.8	3097.5	2507.7	1896.7
45°	3400.3	3023.1	2985.9	1822.4	621.6
47.5°	3267.5	2863.7	2869.0	579.1	573.8
50°	3102.8	2699.0	2247.4	547.2	557.9
52.5°	2980.6	2550.2	1583.3	531.3	536.6
55°	2810.6	2385.5	536.6	510.0	504.7
57.5°	2651.2	2231.5	499.4	472.9	451.6
60°	2470.5	2066.7	472.9	419.7	403.8
62.5°	2284.6	1902.0	435.7	371.9	361.3
65°	2093.3	1503.6	382.5	329.4	324.1
67.5°	1891.4	988.2	324.1	292.2	286.9
70°	1668.3	387.8	281.6	255.0	244.4
72.5°	1434.5	334.7	239.1	217.8	207.2
75°	1179.5	276.3	196.6	175.3	170.0
77.5°	940.4	207.2	159.4	138.1	132.8
80°	701.3	154.1	122.2	106.3	100.9
82.5°	478.2	111.6	90.3	74.4	69.1
85°	249.7	74.4	63.8	47.8	42.5
87.5°	95.6	47.8	37.2	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)