

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: P218242

Luminaire Tested: **4SNLED-LD5-74HL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218242  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35686)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-74HL-LN-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8246.0 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.04 / 1.17  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')  
CIE Type: Direct

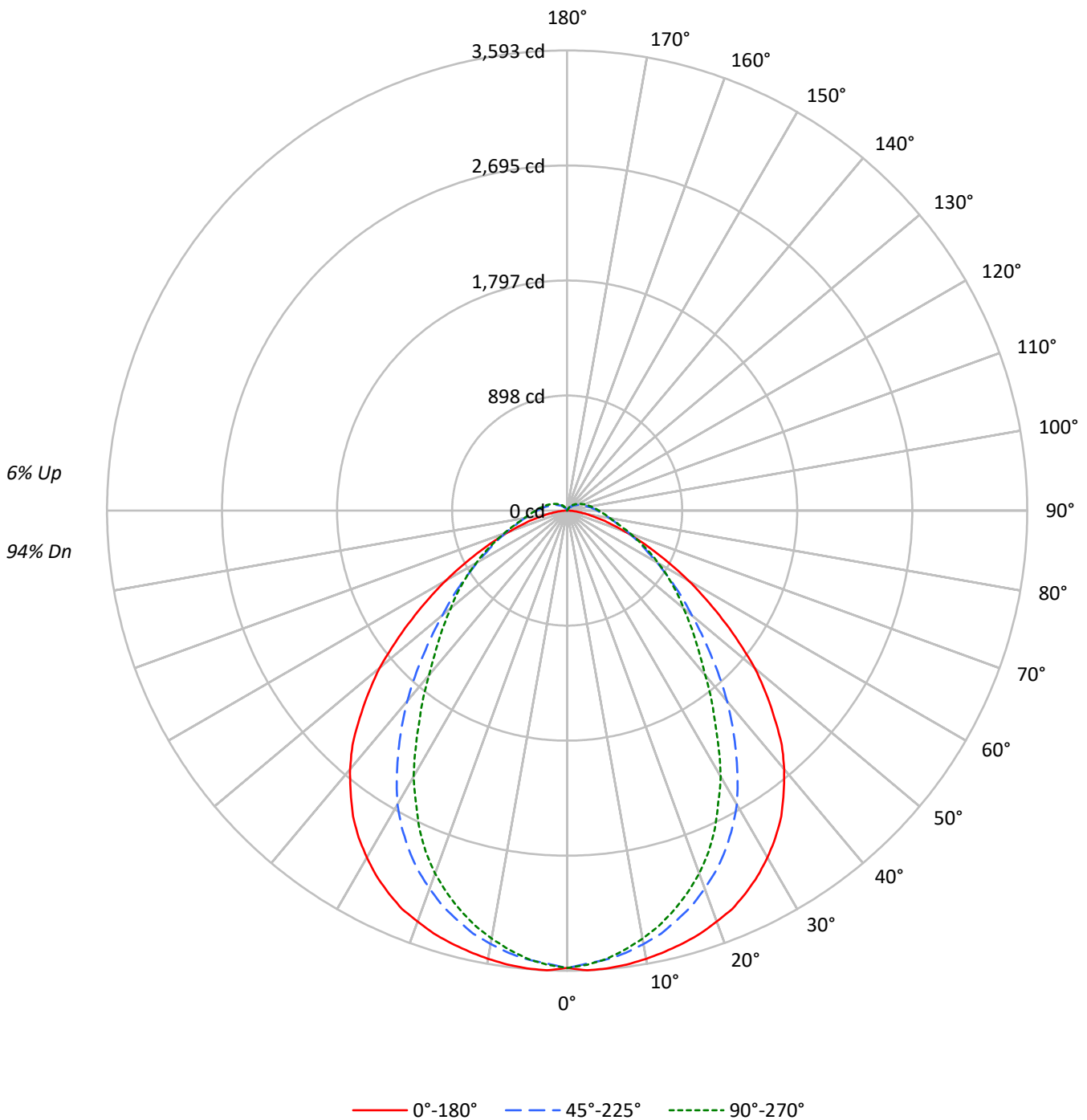
Input Watts (W): 61.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	108	103	99	95	105	100	97	93	95	92	89	90	88	86	86	84	82	80
2	99	91	85	79	96	89	83	78	84	79	75	80	76	73	77	73	70	68
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	64	61	59
4	84	73	64	58	81	71	63	57	68	61	56	65	59	55	62	57	53	51
5	77	65	57	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45
6	72	59	51	45	70	58	50	44	56	49	44	54	47	43	52	46	42	40
7	67	54	46	40	65	53	45	40	51	44	39	49	43	38	47	42	38	36
8	63	50	42	36	61	49	41	36	47	40	35	45	39	35	44	38	34	32
9	59	46	38	33	57	45	38	33	43	37	32	42	36	32	41	35	31	29
10	55	42	35	30	54	42	35	30	40	34	29	39	33	29	38	32	29	27

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

	0°	45°	90°
0°	57543	57543	57543
5°	57833	53474	52277
10°	57723	49765	47195
15°	57697	46122	42469
20°	57678	42474	37906
25°	57506	38693	33135
30°	56831	34596	28288
35°	55715	29825	23273
40°	53594	25245	19181
45°	50082	20751	16087
50°	45649	16935	13565
55°	39278	13977	11561
60°	32903	11443	9686
65°	26148	9504	8008
70°	20380	7987	6609
75°	15443	6782	5488
80°	10759	5995	4714
85°	6521	5456	4264



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.7	4.1
10°-20°	942.2	11.4
20°-30°	1364.5	16.5
30°-40°	1485.0	18.0
40°-50°	1318.9	16.0
50°-60°	1003.9	12.2
60°-70°	666.6	8.1
70°-80°	406.2	4.9
80°-90°	251.7	3.1
90°-100°	171.9	2.1
100°-110°	120.6	1.5
110°-120°	82.2	1.0
120°-130°	52.1	0.6
130°-140°	29.6	0.4
140°-150°	13.9	0.2
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2642.4	32.0
0°-40°	4127.5	50.1
0°-60°	6450.3	78.2
0°-90°	7774.7	94.3
90°-120°	374.7	4.5
90°-150°	470.4	5.7
90°-180°	471.0	5.7
0°-180°	8246.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3571	3571	3571	3571	3571	
5°	3588	3567	3519	3536	3515	341
15°	3497	3436	3310	3271	3228	988
25°	3297	3150	2924	2806	2733	1518
35°	2915	2654	2298	2098	2012	1816
45°	2290	1946	1581	1447	1412	1763
55°	1482	1203	1021	1004	999	1329
65°	747	643	643	669	660	753
75°	287	326	408	430	417	310
85°	52	165	278	295	287	62
90°	0	122	235	256	248	4
95°	0	96	200	222	217	0
105°	0	61	143	165	165	0
115°	0	39	104	126	122	0
125°	0	26	70	87	87	0
135°	0	17	48	61	61	0
145°	0	9	26	35	35	0
155°	0	0	0	0	0	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°	3571.1	3571.1	3571.1	3571.1	3571.1
2.5°	3592.9	3575.5	3540.7	3562.5	3549.4
5°	3588.5	3566.8	3519.0	3536.4	3514.7
7.5°	3575.5	3549.4	3484.3	3492.9	3458.2
10°	3553.8	3519.0	3436.5	3427.8	3393.0
12.5°	3527.7	3484.3	3384.3	3353.9	3319.2
15°	3497.3	3436.5	3310.5	3271.4	3227.9
17.5°	3462.5	3380.0	3236.6	3175.8	3128.0
20°	3414.7	3314.8	3141.0	3067.2	3015.1
22.5°	3367.0	3236.6	3041.1	2941.2	2884.7
25°	3297.4	3149.7	2923.8	2806.5	2732.7
27.5°	3219.2	3049.8	2793.5	2641.4	2558.9
30°	3128.0	2932.5	2650.1	2472.0	2398.1
32.5°	3028.1	2802.2	2476.3	2285.2	2202.6
35°	2915.1	2654.5	2298.2	2098.4	2011.5
37.5°	2776.1	2493.7	2120.1	1915.9	1846.4
40°	2637.1	2324.3	1942.0	1750.8	1677.0
42.5°	2480.7	2137.5	1759.5	1585.7	1533.6
45°	2289.5	1946.3	1581.4	1446.7	1411.9
47.5°	2102.7	1750.8	1420.6	1325.1	1294.6
50°	1911.6	1559.7	1268.6	1207.8	1186.0
52.5°	1690.0	1372.8	1142.6	1103.5	1094.8
55°	1481.5	1203.4	1020.9	1003.6	999.2
57.5°	1281.6	1042.7	908.0	921.0	912.3
60°	1094.8	895.0	808.1	825.4	821.1
62.5°	912.3	760.3	716.8	751.6	742.9
65°	747.2	643.0	643.0	669.0	660.4
67.5°	603.9	547.4	573.5	599.5	590.8
70°	482.2	460.5	512.6	534.4	525.7
72.5°	373.6	386.7	451.8	477.9	464.9
75°	286.7	325.8	408.4	430.1	417.1
77.5°	204.2	273.7	369.3	386.7	373.6
80°	143.4	230.3	334.5	351.9	338.9
82.5°	91.2	195.5	304.1	321.5	312.8
85°	52.1	165.1	278.0	295.4	286.7
87.5°	26.1	143.4	252.0	273.7	265.0
90°	0.0	121.6	234.6	256.3	247.6
92.5°	0.0	108.6	217.2	238.9	230.3
95°	0.0	95.6	199.8	221.6	217.2
97.5°	0.0	86.9	186.8	208.5	199.8
100°	0.0	73.9	169.4	191.2	186.8
102.5°	0.0	69.5	156.4	178.1	173.8
105°	0.0	60.8	143.4	165.1	165.1
107.5°	0.0	56.5	134.7	156.4	152.1
110°	0.0	47.8	121.6	143.4	143.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	43.4	113.0	134.7	130.3
115°	0.0	39.1	104.3	126.0	121.6
117.5°	0.0	39.1	95.6	113.0	113.0
120°	0.0	34.8	86.9	104.3	104.3
122.5°	0.0	30.4	78.2	95.6	95.6
125°	0.0	26.1	69.5	86.9	86.9
127.5°	0.0	26.1	65.2	82.5	82.5
130°	0.0	21.7	56.5	73.9	73.9
132.5°	0.0	17.4	52.1	65.2	65.2
135°	0.0	17.4	47.8	60.8	60.8
137.5°	0.0	13.0	39.1	52.1	52.1
140°	0.0	13.0	34.8	47.8	47.8
142.5°	0.0	8.7	30.4	43.4	39.1
145°	0.0	8.7	26.1	34.8	34.8
147.5°	0.0	4.3	21.7	30.4	30.4
150°	0.0	4.3	17.4	26.1	21.7
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
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)