

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: P218109

Luminaire Tested: **4SNLED-LD5-60HL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35685)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-60HL-LC-UNV-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6038.0 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.59 / 1.17 / 1.18
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Direct

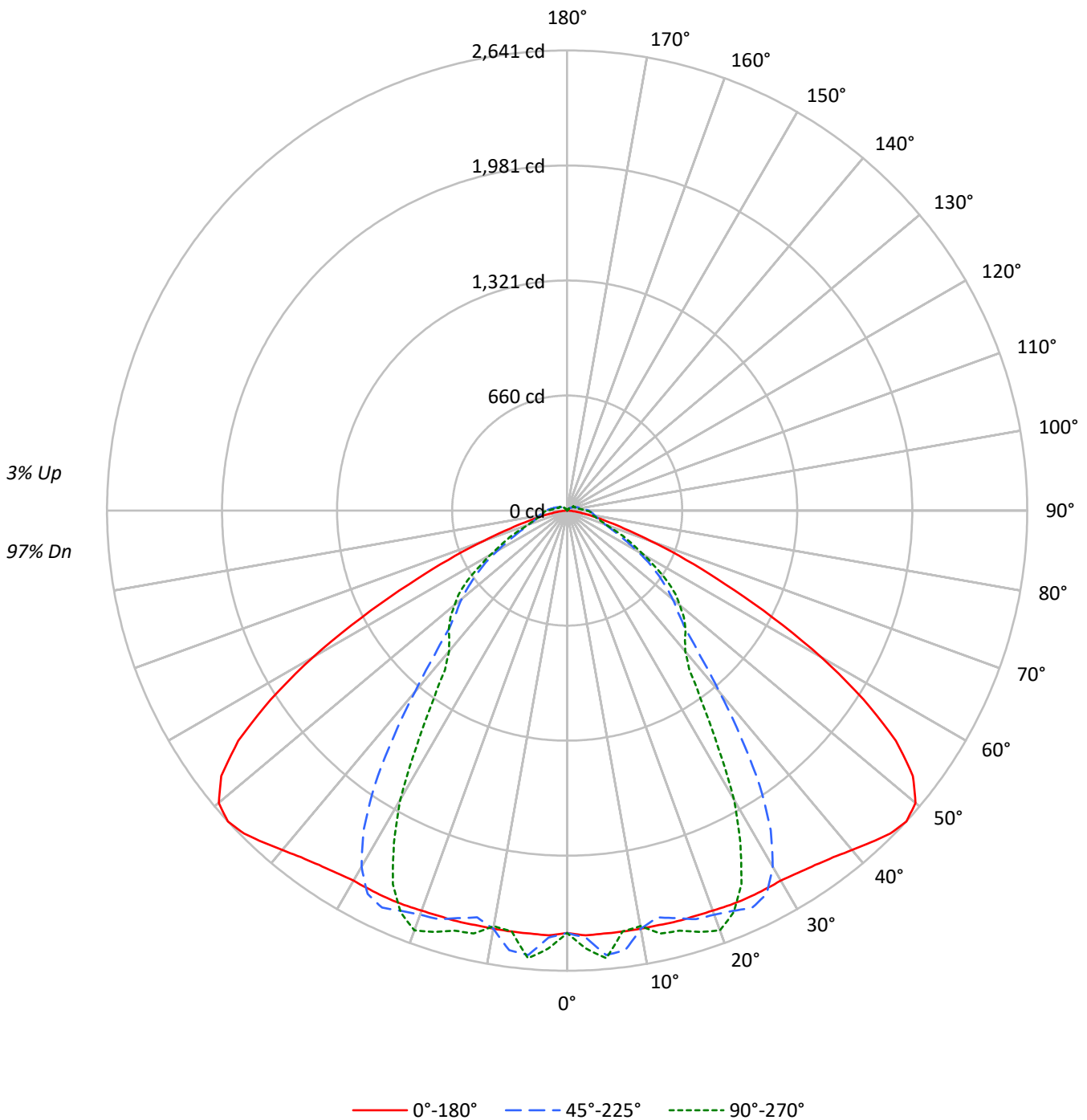
Input Watts (W): 43
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97	
1	109	105	101	98	106	102	99	96	97	95	92	93	91	89	89	87	85	89	87	85	83	
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	80	77	74	72	
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	72	68	64	62	
4	85	75	67	60	83	73	66	60	70	64	59	68	62	58	65	60	56	65	60	56	54	
5	79	67	59	53	77	66	58	53	64	57	52	61	55	51	59	54	50	59	54	50	48	
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	54	49	45	54	49	45	43	
7	68	56	48	42	66	55	47	42	53	46	41	51	45	41	50	44	40	50	44	40	38	
8	64	51	43	38	62	50	43	37	49	42	37	47	41	37	46	40	36	46	40	36	34	
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	31	
10	56	44	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	40	34	30	28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39069	39069	39069
5°	39274	38909	38360
10°	39582	35289	33682
15°	40254	33737	32834
20°	41267	33370	32229
25°	42770	33272	28687
30°	44556	30805	22589
35°	47462	25011	15652
40°	51661	17667	12046
45°	57362	12564	10945
50°	62325	10555	9644
55°	61087	8669	8040
60°	50683	6561	6011
65°	35019	4747	4420
70°	21800	3608	3029
75°	12314	3077	2397
80°	6955	2878	2063
85°	3091	2789	2067



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.3	3.9
10°-20°	701.9	11.6
20°-30°	1115.4	18.5
30°-40°	1202.6	19.9
40°-50°	1036.5	17.2
50°-60°	784.7	13.0
60°-70°	423.9	7.0
70°-80°	201.3	3.3
80°-90°	126.4	2.1
90°-100°	80.4	1.3
100°-110°	51.5	0.9
110°-120°	34.4	0.6
120°-130°	22.7	0.4
130°-140°	11.1	0.2
140°-150°	4.7	0.1
150°-160°	1.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	2055.6	34.0
0°-40°	3258.2	54.0
0°-60°	5079.5	84.1
0°-90°	5831.2	96.6
90°-120°	166.4	2.8
90°-150°	205.0	3.4
90°-180°	207.0	3.4
0°-180°	6038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2425	2425	2425	2425	2425	
5°	2437	2490	2560	2594	2579	233
15°	2440	2505	2422	2505	2496	692
25°	2452	2406	2514	2446	2366	1134
35°	2483	2391	1927	1473	1353	1564
45°	2622	1643	958	948	961	2019
55°	2304	710	633	692	695	2004
65°	1001	303	321	361	364	1028
75°	229	158	185	185	182	269
85°	25	96	142	142	139	36
90°	0	74	124	120	111	1
95°	0	59	99	90	83	0
105°	0	37	68	62	56	0
115°	0	22	46	46	46	0
125°	0	12	31	40	37	0
135°	0	6	18	22	22	0
145°	0	3	9	12	9	0
155°	0	3	3	6	3	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°	2424.6	2424.6	2424.6	2424.6	2424.6
2.5°	2440.0	2443.1	2452.4	2498.7	2517.3
5°	2436.9	2489.5	2560.5	2594.5	2579.0
7.5°	2436.9	2545.1	2545.1	2480.2	2436.9
10°	2436.9	2575.9	2436.9	2424.6	2421.5
12.5°	2436.9	2557.4	2390.6	2477.1	2486.4
15°	2440.0	2504.9	2421.5	2504.9	2495.6
17.5°	2440.0	2443.1	2458.6	2523.4	2535.8
20°	2443.1	2403.0	2467.8	2572.8	2563.6
22.5°	2449.3	2396.8	2486.4	2551.2	2495.6
25°	2452.4	2406.1	2514.2	2446.2	2365.9
27.5°	2452.4	2418.4	2480.2	2285.6	2152.8
30°	2452.4	2424.6	2359.7	2063.2	1915.0
32.5°	2464.7	2418.4	2174.4	1772.9	1612.3
35°	2483.3	2390.6	1927.3	1473.3	1352.8
37.5°	2508.0	2316.5	1637.0	1232.4	1152.1
40°	2542.0	2155.9	1359.0	1077.9	1053.2
42.5°	2582.1	1921.1	1130.4	1000.7	1000.7
45°	2622.3	1643.2	957.5	948.2	960.6
47.5°	2640.8	1371.4	861.7	895.7	908.1
50°	2609.9	1118.1	790.7	837.0	843.2
52.5°	2501.8	892.6	710.4	766.0	781.4
55°	2304.1	710.4	633.2	691.9	694.9
57.5°	2016.9	565.2	552.9	599.2	596.1
60°	1686.4	457.1	463.3	509.6	509.6
62.5°	1331.2	370.6	389.2	429.3	426.2
65°	1000.7	302.7	321.2	361.4	364.5
67.5°	738.2	250.2	271.8	299.6	293.4
70°	515.8	210.0	231.6	247.1	240.9
72.5°	342.8	179.1	203.9	210.0	206.9
75°	228.6	157.5	185.3	185.3	182.2
77.5°	148.3	139.0	173.0	169.9	163.7
80°	92.7	123.5	160.6	154.4	148.3
82.5°	55.6	108.1	151.3	145.2	139.0
85°	24.7	95.7	142.1	142.1	139.0
87.5°	9.3	86.5	132.8	135.9	129.7
90°	0.0	74.1	123.5	120.5	111.2
92.5°	0.0	68.0	111.2	101.9	95.7
95°	0.0	58.7	98.8	89.6	83.4
97.5°	0.0	52.5	89.6	80.3	74.1
100°	0.0	46.3	80.3	71.0	64.9
102.5°	0.0	40.2	74.1	64.9	61.8
105°	0.0	37.1	68.0	61.8	55.6
107.5°	0.0	34.0	61.8	55.6	52.5
110°	0.0	27.8	55.6	52.5	49.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	24.7	49.4	49.4	49.4
115°	0.0	21.6	46.3	46.3	46.3
117.5°	0.0	18.5	40.2	46.3	46.3
120°	0.0	18.5	37.1	43.2	43.2
122.5°	0.0	15.4	34.0	43.2	43.2
125°	0.0	12.4	30.9	40.2	37.1
127.5°	0.0	9.3	27.8	34.0	34.0
130°	0.0	9.3	24.7	30.9	27.8
132.5°	0.0	6.2	21.6	24.7	24.7
135°	0.0	6.2	18.5	21.6	21.6
137.5°	0.0	6.2	15.4	18.5	15.4
140°	0.0	3.1	12.4	15.4	12.4
142.5°	0.0	3.1	12.4	15.4	12.4
145°	0.0	3.1	9.3	12.4	9.3
147.5°	0.0	3.1	6.2	9.3	9.3
150°	0.0	3.1	6.2	9.3	6.2
152.5°	0.0	3.1	6.2	6.2	3.1
155°	0.0	3.1	3.1	6.2	3.1
157.5°	0.0	3.1	3.1	3.1	3.1
160°	3.1	3.1	3.1	3.1	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)