

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: P218081

Luminaire Tested: **4SNLED-LD5-41SL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218081  
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-LD5-41SL-LC-UNV-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4346.0 lumens  
Efficiency: N/A  
Efficacy: 142.0 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

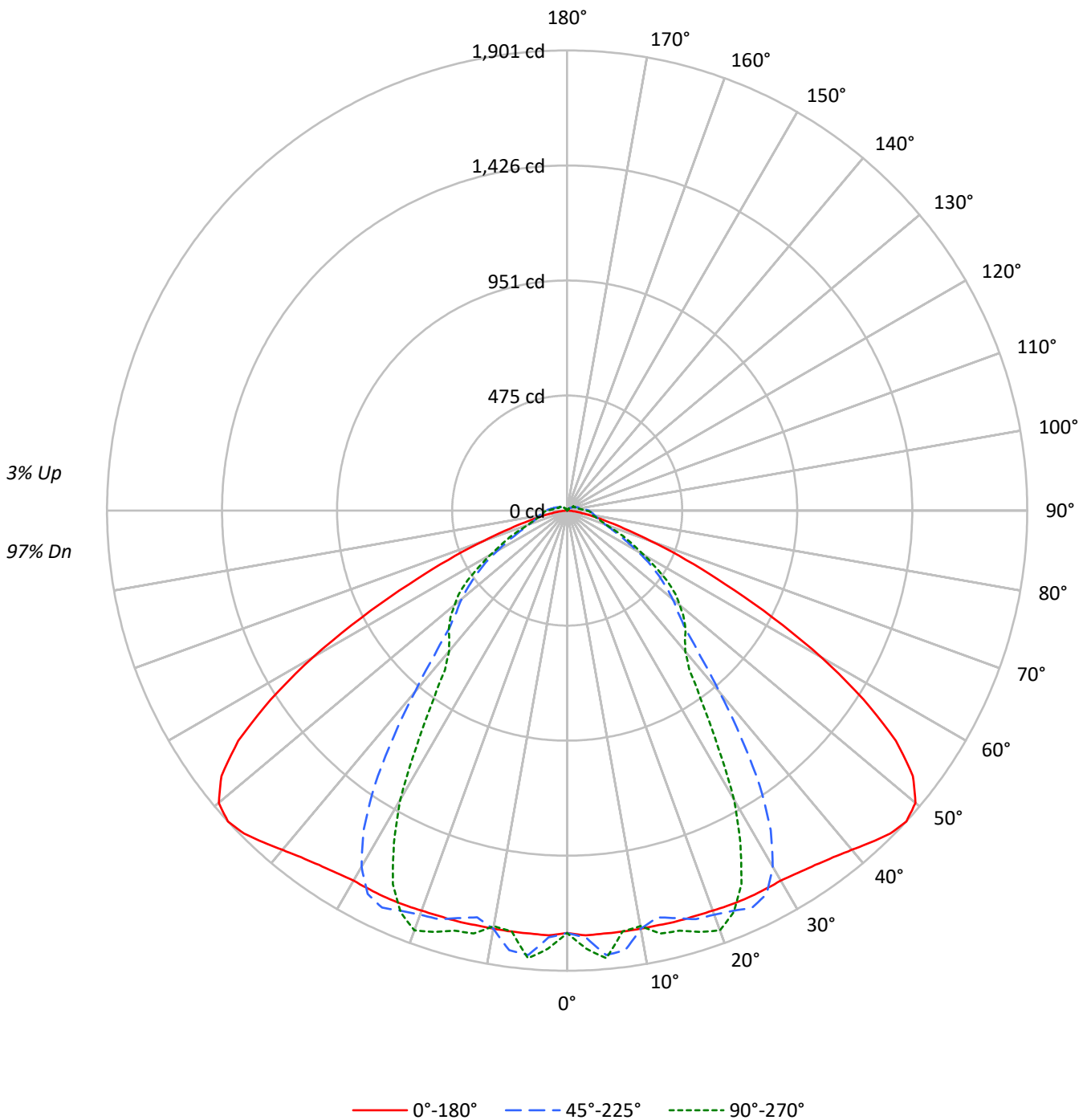
Input Watts (W): 30.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	57	65	60	57	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°	28122	28122	28122
5°	28270	28006	27610
10°	28491	25402	24243
15°	28975	24282	23633
20°	29703	24020	23198
25°	30785	23948	20648
30°	32071	22173	16258
35°	34162	18002	11266
40°	37183	12716	8671
45°	41287	9044	7878
50°	44859	7597	6941
55°	43971	6239	5787
60°	36480	4722	4327
65°	25207	3417	3180
70°	15693	2597	2180
75°	8861	2215	1726
80°	5004	2072	1484
85°	2228	2008	1487



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.5	3.9
10°-20°	505.2	11.6
20°-30°	802.8	18.5
30°-40°	865.6	19.9
40°-50°	746.1	17.2
50°-60°	564.8	13.0
60°-70°	305.1	7.0
70°-80°	144.9	3.3
80°-90°	91.0	2.1
90°-100°	57.9	1.3
100°-110°	37.1	0.9
110°-120°	24.8	0.6
120°-130°	16.4	0.4
130°-140°	8.0	0.2
140°-150°	3.4	0.1
150°-160°	1.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1479.6	34.0
0°-40°	2345.2	54.0
0°-60°	3656.1	84.1
0°-90°	4197.1	96.6
90°-120°	119.8	2.8
90°-150°	147.5	3.4
90°-180°	149.0	3.4
0°-180°	4346.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1745	1745	1745	1745	1745	
5°	1754	1792	1843	1867	1856	167
15°	1756	1803	1743	1803	1796	498
25°	1765	1732	1810	1761	1703	816
35°	1787	1721	1387	1060	974	1126
45°	1887	1183	689	682	691	1453
55°	1658	511	456	498	500	1442
65°	720	218	231	260	262	740
75°	164	113	133	133	131	194
85°	18	69	102	102	100	26
90°	0	53	89	87	80	1
95°	0	42	71	64	60	0
105°	0	27	49	44	40	0
115°	0	16	33	33	33	0
125°	0	9	22	29	27	0
135°	0	4	13	16	16	0
145°	0	2	7	9	7	0
155°	0	2	2	4	2	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°	1745.2	1745.2	1745.2	1745.2	1745.2
2.5°	1756.3	1758.5	1765.2	1798.5	1811.9
5°	1754.1	1791.8	1843.0	1867.4	1856.3
7.5°	1754.1	1831.9	1831.9	1785.2	1754.1
10°	1754.1	1854.1	1754.1	1745.2	1742.9
12.5°	1754.1	1840.8	1720.7	1783.0	1789.6
15°	1756.3	1803.0	1742.9	1803.0	1796.3
17.5°	1756.3	1758.5	1769.6	1816.3	1825.2
20°	1758.5	1729.6	1776.3	1851.9	1845.2
22.5°	1762.9	1725.2	1789.6	1836.3	1796.3
25°	1765.2	1731.8	1809.6	1760.7	1702.9
27.5°	1765.2	1740.7	1785.2	1645.1	1549.5
30°	1765.2	1745.2	1698.5	1485.1	1378.3
32.5°	1774.1	1740.7	1565.1	1276.1	1160.5
35°	1787.4	1720.7	1387.2	1060.4	973.7
37.5°	1805.2	1667.4	1178.3	887.0	829.2
40°	1829.6	1551.7	978.2	775.9	758.1
42.5°	1858.5	1382.8	813.7	720.3	720.3
45°	1887.4	1182.7	689.2	682.5	691.4
47.5°	1900.8	987.1	620.3	644.7	653.6
50°	1878.5	804.8	569.1	602.5	606.9
52.5°	1800.7	642.5	511.3	551.3	562.5
55°	1658.5	511.3	455.7	498.0	500.2
57.5°	1451.7	406.8	397.9	431.3	429.1
60°	1213.8	329.0	333.5	366.8	366.8
62.5°	958.2	266.8	280.1	309.0	306.8
65°	720.3	217.9	231.2	260.1	262.3
67.5°	531.3	180.1	195.6	215.6	211.2
70°	371.3	151.2	166.7	177.9	173.4
72.5°	246.8	128.9	146.7	151.2	149.0
75°	164.5	113.4	133.4	133.4	131.2
77.5°	106.7	100.0	124.5	122.3	117.8
80°	66.7	88.9	115.6	111.2	106.7
82.5°	40.0	77.8	108.9	104.5	100.0
85°	17.8	68.9	102.3	102.3	100.0
87.5°	6.7	62.2	95.6	97.8	93.4
90°	0.0	53.4	88.9	86.7	80.0
92.5°	0.0	48.9	80.0	73.4	68.9
95°	0.0	42.2	71.1	64.5	60.0
97.5°	0.0	37.8	64.5	57.8	53.4
100°	0.0	33.3	57.8	51.1	46.7
102.5°	0.0	28.9	53.4	46.7	44.5
105°	0.0	26.7	48.9	44.5	40.0
107.5°	0.0	24.5	44.5	40.0	37.8
110°	0.0	20.0	40.0	37.8	35.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	17.8	35.6	35.6	35.6
115°	0.0	15.6	33.3	33.3	33.3
117.5°	0.0	13.3	28.9	33.3	33.3
120°	0.0	13.3	26.7	31.1	31.1
122.5°	0.0	11.1	24.5	31.1	31.1
125°	0.0	8.9	22.2	28.9	26.7
127.5°	0.0	6.7	20.0	24.5	24.5
130°	0.0	6.7	17.8	22.2	20.0
132.5°	0.0	4.4	15.6	17.8	17.8
135°	0.0	4.4	13.3	15.6	15.6
137.5°	0.0	4.4	11.1	13.3	11.1
140°	0.0	2.2	8.9	11.1	8.9
142.5°	0.0	2.2	8.9	11.1	8.9
145°	0.0	2.2	6.7	8.9	6.7
147.5°	0.0	2.2	4.4	6.7	6.7
150°	0.0	2.2	4.4	6.7	4.4
152.5°	0.0	2.2	4.4	4.4	2.2
155°	0.0	2.2	2.2	4.4	2.2
157.5°	0.0	2.2	2.2	2.2	2.2
160°	2.2	2.2	2.2	2.2	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)