

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: P218083

Luminaire Tested: **4SNLED-LD5-46SL-LC-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218083  
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-LD5-46SL-LC-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4431.0 lumens  
Efficiency: N/A  
Efficacy: 128.1 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

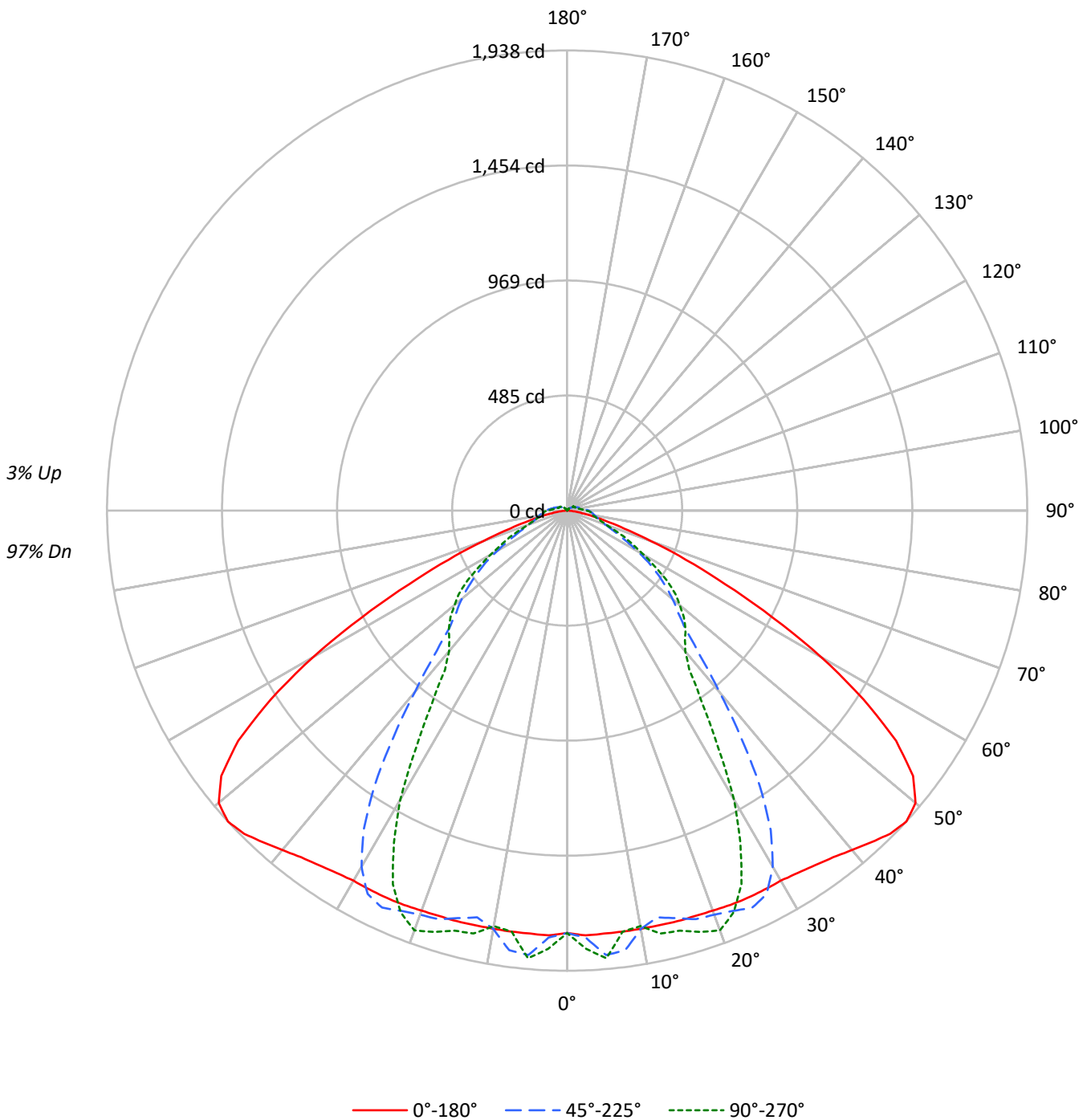
Input Watts (W): 34.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	28671	28671	28671
5°	28822	28553	28150
10°	29048	25898	24717
15°	29540	24757	24095
20°	30284	24489	23652
25°	31387	24416	21052
30°	32698	22606	16577
35°	34830	18355	11487
40°	37910	12965	8840
45°	42096	9221	8032
50°	45738	7747	7078
55°	44830	6362	5901
60°	37195	4815	4412
65°	25700	3484	3244
70°	15997	2649	2223
75°	9033	2258	1759
80°	5102	2113	1513
85°	2265	2047	1517



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.9	3.9
10°-20°	515.1	11.6
20°-30°	818.5	18.5
30°-40°	882.5	19.9
40°-50°	760.7	17.2
50°-60°	575.9	13.0
60°-70°	311.1	7.0
70°-80°	147.8	3.3
80°-90°	92.8	2.1
90°-100°	59.0	1.3
100°-110°	37.8	0.9
110°-120°	25.3	0.6
120°-130°	16.7	0.4
130°-140°	8.2	0.2
140°-150°	3.5	0.1
150°-160°	1.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1508.5	34.0
0°-40°	2391.1	54.0
0°-60°	3727.6	84.1
0°-90°	4279.3	96.6
90°-120°	122.1	2.8
90°-150°	150.4	3.4
90°-180°	152.0	3.4
0°-180°	4431.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1779	1779	1779	1779	1779	
5°	1788	1827	1879	1904	1893	171
15°	1791	1838	1777	1838	1831	507
25°	1800	1766	1845	1795	1736	832
35°	1822	1754	1414	1081	993	1148
45°	1924	1206	703	696	705	1481
55°	1691	521	465	508	510	1471
65°	734	222	236	265	268	754
75°	168	116	136	136	134	198
85°	18	70	104	104	102	26
90°	0	54	91	88	82	1
95°	0	43	72	66	61	0
105°	0	27	50	45	41	0
115°	0	16	34	34	34	0
125°	0	9	23	30	27	0
135°	0	4	14	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°	1779.3	1779.3	1779.3	1779.3	1779.3
2.5°	1790.6	1792.9	1799.7	1833.7	1847.3
5°	1788.4	1826.9	1879.0	1904.0	1892.6
7.5°	1788.4	1867.7	1867.7	1820.1	1788.4
10°	1788.4	1890.4	1788.4	1779.3	1777.0
12.5°	1788.4	1876.8	1754.4	1817.8	1824.6
15°	1790.6	1838.2	1777.0	1838.2	1831.4
17.5°	1790.6	1792.9	1804.2	1851.8	1860.9
20°	1792.9	1763.4	1811.0	1888.1	1881.3
22.5°	1797.4	1758.9	1824.6	1872.2	1831.4
25°	1799.7	1765.7	1845.0	1795.2	1736.2
27.5°	1799.7	1774.8	1820.1	1677.3	1579.8
30°	1799.7	1779.3	1731.7	1514.1	1405.3
32.5°	1808.8	1774.8	1595.7	1301.0	1183.2
35°	1822.4	1754.4	1414.4	1081.2	992.8
37.5°	1840.5	1700.0	1201.3	904.4	845.4
40°	1865.4	1582.1	997.3	791.0	772.9
42.5°	1894.9	1409.8	829.6	734.4	734.4
45°	1924.4	1205.8	702.7	695.9	704.9
47.5°	1938.0	1006.4	632.4	657.3	666.4
50°	1915.3	820.5	580.3	614.3	618.8
52.5°	1836.0	655.1	521.3	562.1	573.5
55°	1690.9	521.3	464.7	507.7	510.0
57.5°	1480.1	414.8	405.7	439.7	437.5
60°	1237.6	335.5	340.0	374.0	374.0
62.5°	976.9	272.0	285.6	315.1	312.8
65°	734.4	222.1	235.7	265.2	267.5
67.5°	541.7	183.6	199.5	219.9	215.3
70°	378.5	154.1	170.0	181.3	176.8
72.5°	251.6	131.5	149.6	154.1	151.9
75°	167.7	115.6	136.0	136.0	133.7
77.5°	108.8	102.0	126.9	124.7	120.1
80°	68.0	90.7	117.9	113.3	108.8
82.5°	40.8	79.3	111.1	106.5	102.0
85°	18.1	70.3	104.3	104.3	102.0
87.5°	6.8	63.5	97.5	99.7	95.2
90°	0.0	54.4	90.7	88.4	81.6
92.5°	0.0	49.9	81.6	74.8	70.3
95°	0.0	43.1	72.5	65.7	61.2
97.5°	0.0	38.5	65.7	58.9	54.4
100°	0.0	34.0	58.9	52.1	47.6
102.5°	0.0	29.5	54.4	47.6	45.3
105°	0.0	27.2	49.9	45.3	40.8
107.5°	0.0	24.9	45.3	40.8	38.5
110°	0.0	20.4	40.8	38.5	36.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	18.1	36.3	36.3	36.3
115°	0.0	15.9	34.0	34.0	34.0
117.5°	0.0	13.6	29.5	34.0	34.0
120°	0.0	13.6	27.2	31.7	31.7
122.5°	0.0	11.3	24.9	31.7	31.7
125°	0.0	9.1	22.7	29.5	27.2
127.5°	0.0	6.8	20.4	24.9	24.9
130°	0.0	6.8	18.1	22.7	20.4
132.5°	0.0	4.5	15.9	18.1	18.1
135°	0.0	4.5	13.6	15.9	15.9
137.5°	0.0	4.5	11.3	13.6	11.3
140°	0.0	2.3	9.1	11.3	9.1
142.5°	0.0	2.3	9.1	11.3	9.1
145°	0.0	2.3	6.8	9.1	6.8
147.5°	0.0	2.3	4.5	6.8	6.8
150°	0.0	2.3	4.5	6.8	4.5
152.5°	0.0	2.3	4.5	4.5	2.3
155°	0.0	2.3	2.3	4.5	2.3
157.5°	0.0	2.3	2.3	2.3	2.3
160°	2.3	2.3	2.3	2.3	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)