

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: P218085

Luminaire Tested: **4SNLED-LD5-46SL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218085
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-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4802.0 lumens
Efficiency: N/A
Efficacy: 138.8 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

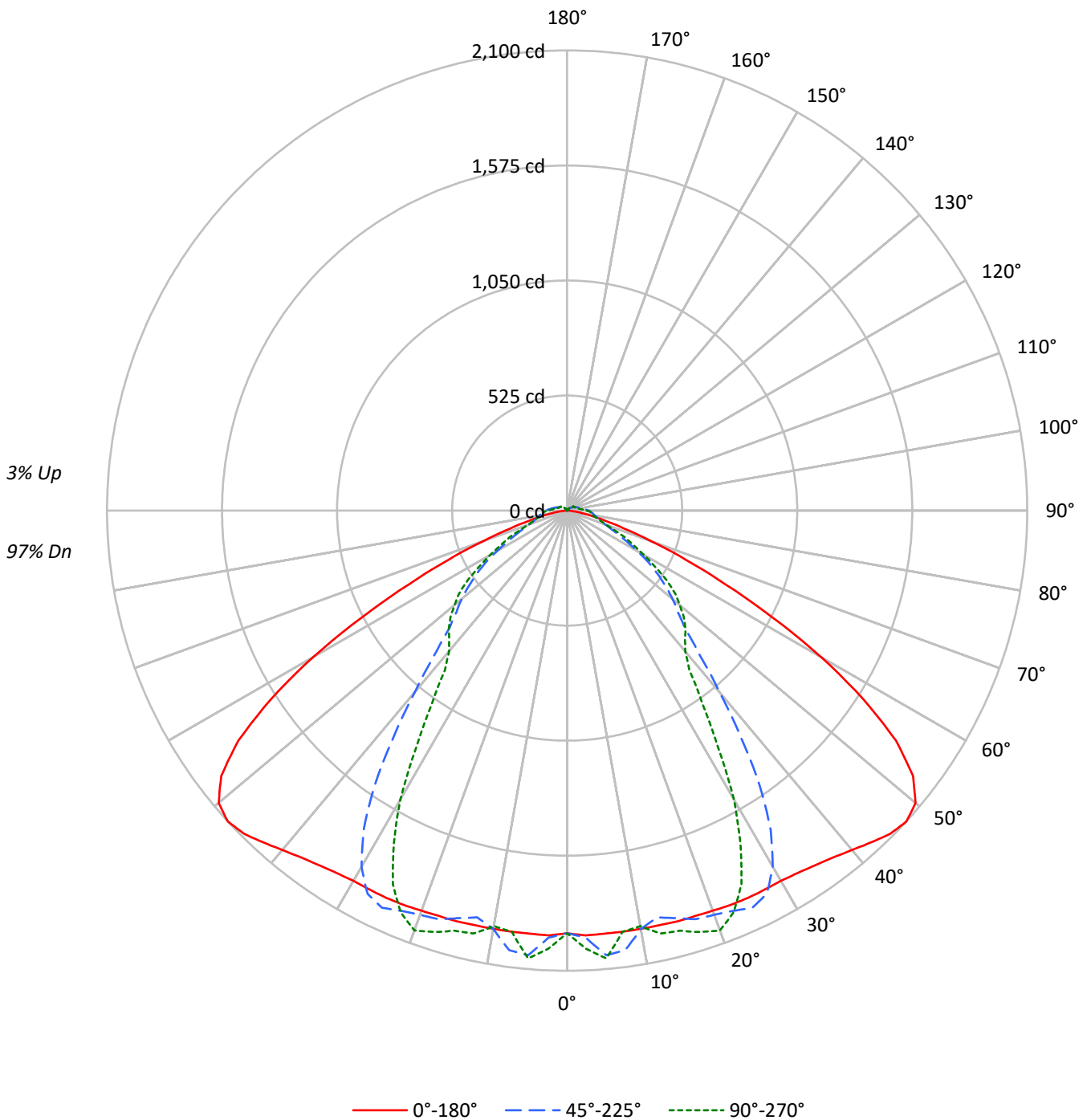
Input Watts (W): 34.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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	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	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	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	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	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	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	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	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	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	40	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31072	31072	31072
5°	31235	30945	30508
10°	31480	28066	26787
15°	32015	26831	26113
20°	32819	26540	25632
25°	34015	26461	22815
30°	35436	24499	17965
35°	37745	19892	12448
40°	41085	14050	9580
45°	45620	9992	8704
50°	49568	8394	7670
55°	48584	6895	6395
60°	40308	5218	4781
65°	27852	3776	3515
70°	17337	2870	2409
75°	9793	2448	1906
80°	5530	2289	1640
85°	2466	2218	1644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	3.9
10°-20°	558.2	11.6
20°-30°	887.0	18.5
30°-40°	956.4	19.9
40°-50°	824.3	17.2
50°-60°	624.1	13.0
60°-70°	337.2	7.0
70°-80°	160.1	3.3
80°-90°	100.6	2.1
90°-100°	64.0	1.3
100°-110°	40.9	0.9
110°-120°	27.4	0.6
120°-130°	18.1	0.4
130°-140°	8.9	0.2
140°-150°	3.8	0.1
150°-160°	1.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1634.8	34.0
0°-40°	2591.3	54.0
0°-60°	4039.7	84.1
0°-90°	4637.5	96.6
90°-120°	132.3	2.8
90°-150°	163.0	3.4
90°-180°	164.0	3.4
0°-180°	4802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1928	1928	1928	1928	1928	
5°	1938	1980	2036	2063	2051	185
15°	1941	1992	1926	1992	1985	550
25°	1950	1914	2000	1946	1882	902
35°	1975	1901	1533	1172	1076	1244
45°	2086	1307	762	754	764	1605
55°	1832	565	504	550	553	1594
65°	796	241	256	287	290	817
75°	182	125	147	147	145	214
85°	20	76	113	113	110	28
90°	0	59	98	96	88	1
95°	0	47	79	71	66	0
105°	0	30	54	49	44	0
115°	0	17	37	37	37	0
125°	0	10	25	32	30	0
135°	0	5	15	17	17	0
145°	0	2	7	10	7	0
155°	0	2	2	5	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°	1928.3	1928.3	1928.3	1928.3	1928.3
2.5°	1940.6	1943.0	1950.4	1987.2	2002.0
5°	1938.1	1979.9	2036.4	2063.4	2051.1
7.5°	1938.1	2024.1	2024.1	1972.5	1938.1
10°	1938.1	2048.6	1938.1	1928.3	1925.8
12.5°	1938.1	2033.9	1901.2	1970.0	1977.4
15°	1940.6	1992.1	1925.8	1992.1	1984.8
17.5°	1940.6	1943.0	1955.3	2006.9	2016.7
20°	1943.0	1911.1	1962.7	2046.2	2038.8
22.5°	1947.9	1906.2	1977.4	2029.0	1984.8
25°	1950.4	1913.5	1999.5	1945.5	1881.6
27.5°	1950.4	1923.4	1972.5	1817.7	1712.1
30°	1950.4	1928.3	1876.7	1640.9	1523.0
32.5°	1960.2	1923.4	1729.3	1410.0	1282.2
35°	1974.9	1901.2	1532.8	1171.7	1075.9
37.5°	1994.6	1842.3	1301.9	980.1	916.2
40°	2021.6	1714.6	1080.8	857.3	837.6
42.5°	2053.5	1527.9	899.0	795.9	795.9
45°	2085.5	1306.8	761.5	754.1	763.9
47.5°	2100.2	1090.6	685.3	712.4	722.2
50°	2075.7	889.2	628.8	665.7	670.6
52.5°	1989.7	709.9	565.0	609.2	621.5
55°	1832.5	565.0	503.6	550.2	552.7
57.5°	1604.0	449.5	439.7	476.5	474.1
60°	1341.2	363.5	368.5	405.3	405.3
62.5°	1058.7	294.8	309.5	341.4	339.0
65°	795.9	240.7	255.5	287.4	289.9
67.5°	587.1	199.0	216.2	238.3	233.4
70°	410.2	167.0	184.2	196.5	191.6
72.5°	272.7	142.5	162.1	167.0	164.6
75°	181.8	125.3	147.4	147.4	144.9
77.5°	117.9	110.5	137.6	135.1	130.2
80°	73.7	98.3	127.7	122.8	117.9
82.5°	44.2	86.0	120.4	115.5	110.5
85°	19.7	76.1	113.0	113.0	110.5
87.5°	7.4	68.8	105.6	108.1	103.2
90°	0.0	59.0	98.3	95.8	88.4
92.5°	0.0	54.0	88.4	81.1	76.1
95°	0.0	46.7	78.6	71.2	66.3
97.5°	0.0	41.8	71.2	63.9	59.0
100°	0.0	36.8	63.9	56.5	51.6
102.5°	0.0	31.9	59.0	51.6	49.1
105°	0.0	29.5	54.0	49.1	44.2
107.5°	0.0	27.0	49.1	44.2	41.8
110°	0.0	22.1	44.2	41.8	39.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	19.7	39.3	39.3	39.3
115°	0.0	17.2	36.8	36.8	36.8
117.5°	0.0	14.7	31.9	36.8	36.8
120°	0.0	14.7	29.5	34.4	34.4
122.5°	0.0	12.3	27.0	34.4	34.4
125°	0.0	9.8	24.6	31.9	29.5
127.5°	0.0	7.4	22.1	27.0	27.0
130°	0.0	7.4	19.7	24.6	22.1
132.5°	0.0	4.9	17.2	19.7	19.7
135°	0.0	4.9	14.7	17.2	17.2
137.5°	0.0	4.9	12.3	14.7	12.3
140°	0.0	2.5	9.8	12.3	9.8
142.5°	0.0	2.5	9.8	12.3	9.8
145°	0.0	2.5	7.4	9.8	7.4
147.5°	0.0	2.5	4.9	7.4	7.4
150°	0.0	2.5	4.9	7.4	4.9
152.5°	0.0	2.5	4.9	4.9	2.5
155°	0.0	2.5	2.5	4.9	2.5
157.5°	0.0	2.5	2.5	2.5	2.5
160°	2.5	2.5	2.5	2.5	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)