

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: P218086

Luminaire Tested: **4SNLED-LD5-46SL-LC-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218086
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-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5194.0 lumens
Efficiency: N/A
Efficacy: 150.1 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

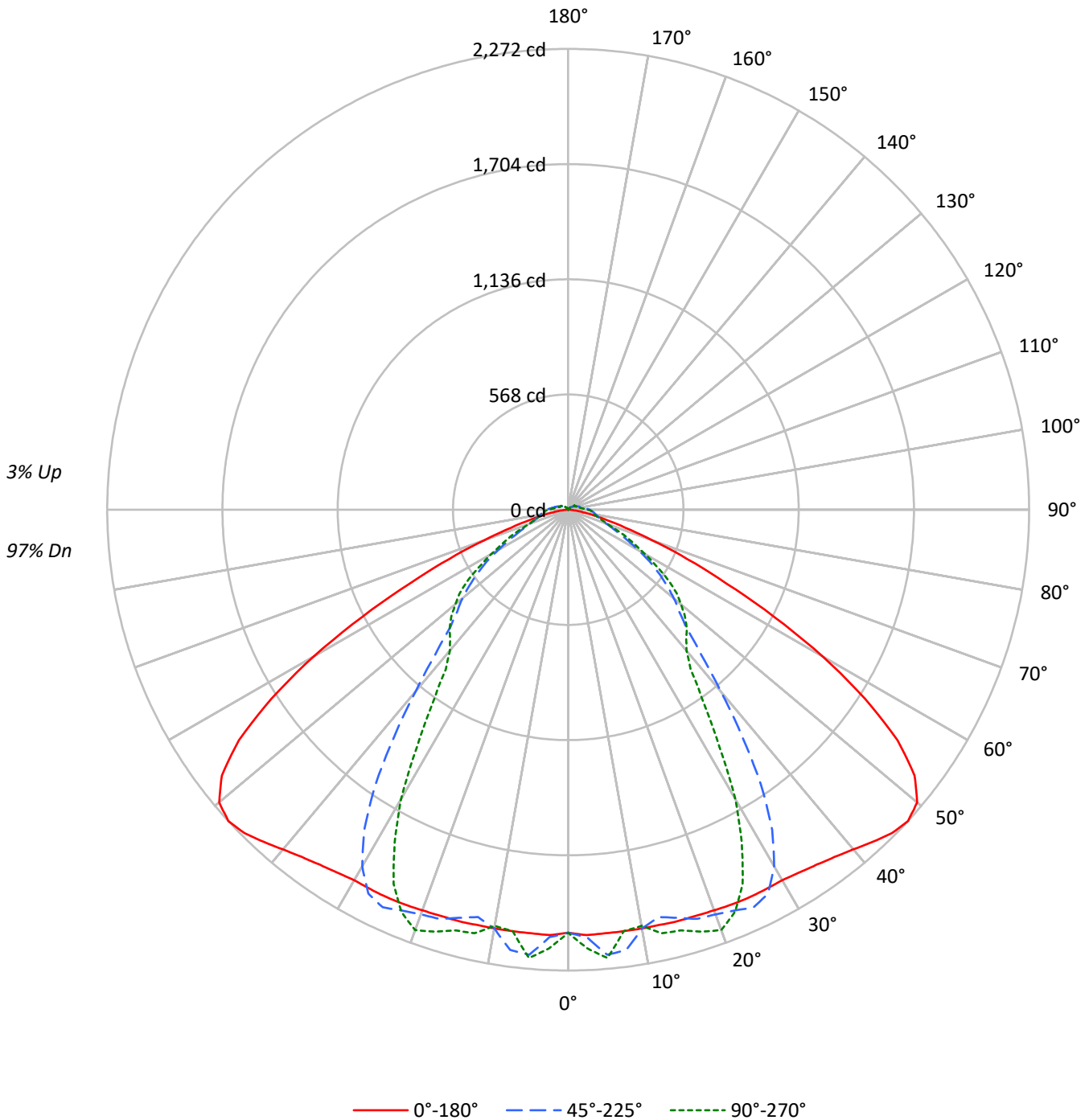
Input Watts (W): 34.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	33608	33608	33608
5°	33785	33470	32998
10°	34049	30357	28974
15°	34628	29021	28245
20°	35498	28707	27724
25°	36791	28621	24677
30°	38328	26499	19432
35°	40828	21515	13464
40°	44438	15197	10362
45°	49343	10807	9415
50°	53613	9080	8296
55°	52550	7457	6916
60°	43599	5643	5171
65°	30124	4084	3801
70°	18753	3105	2605
75°	10590	2647	2063
80°	5980	2477	1773
85°	2666	2398	1779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	3.9
10°-20°	603.8	11.6
20°-30°	959.5	18.5
30°-40°	1034.5	19.9
40°-50°	891.6	17.2
50°-60°	675.0	13.0
60°-70°	364.7	7.0
70°-80°	173.2	3.3
80°-90°	108.8	2.1
90°-100°	69.2	1.3
100°-110°	44.3	0.9
110°-120°	29.6	0.6
120°-130°	19.6	0.4
130°-140°	9.6	0.2
140°-150°	4.1	0.1
150°-160°	1.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1768.3	34.0
0°-40°	2802.8	54.0
0°-60°	4369.5	84.1
0°-90°	5016.1	96.6
90°-120°	143.1	2.8
90°-150°	176.4	3.4
90°-180°	178.0	3.4
0°-180°	5194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2086	2086	2086	2086	2086	
5°	2096	2142	2203	2232	2218	200
15°	2099	2155	2083	2155	2147	595
25°	2110	2070	2163	2104	2035	976
35°	2136	2056	1658	1267	1164	1346
45°	2256	1414	824	816	826	1736
55°	1982	611	545	595	598	1724
65°	861	260	276	311	314	884
75°	197	136	159	159	157	232
85°	21	82	122	122	120	31
90°	0	64	106	104	96	1
95°	0	50	85	77	72	0
105°	0	32	58	53	48	0
115°	0	19	40	40	40	0
125°	0	11	27	34	32	0
135°	0	5	16	19	19	0
145°	0	3	8	11	8	0
155°	0	3	3	5	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°	2085.7	2085.7	2085.7	2085.7	2085.7
2.5°	2099.0	2101.6	2109.6	2149.4	2165.4
5°	2096.3	2141.5	2202.6	2231.8	2218.5
7.5°	2096.3	2189.3	2189.3	2133.5	2096.3
10°	2096.3	2215.9	2096.3	2085.7	2083.0
12.5°	2096.3	2199.9	2056.5	2130.8	2138.8
15°	2099.0	2154.8	2083.0	2154.8	2146.8
17.5°	2099.0	2101.6	2114.9	2170.7	2181.3
20°	2101.6	2067.1	2122.9	2213.2	2205.2
22.5°	2106.9	2061.8	2138.8	2194.6	2146.8
25°	2109.6	2069.7	2162.7	2104.3	2035.2
27.5°	2109.6	2080.4	2133.5	1966.1	1851.9
30°	2109.6	2085.7	2029.9	1774.8	1647.3
32.5°	2120.2	2080.4	1870.5	1525.1	1386.9
35°	2136.2	2056.5	1657.9	1267.3	1163.7
37.5°	2157.4	1992.7	1408.2	1060.1	991.0
40°	2186.6	1854.5	1169.0	927.3	906.0
42.5°	2221.2	1652.6	972.4	860.8	860.8
45°	2255.7	1413.5	823.6	815.7	826.3
47.5°	2271.7	1179.7	741.3	770.5	781.1
50°	2245.1	961.8	680.2	720.0	725.3
52.5°	2152.1	767.8	611.1	658.9	672.2
55°	1982.1	611.1	544.7	595.1	597.8
57.5°	1735.0	486.2	475.6	515.4	512.8
60°	1450.7	393.2	398.5	438.4	438.4
62.5°	1145.1	318.8	334.8	369.3	366.7
65°	860.8	260.4	276.3	310.9	313.5
67.5°	635.0	215.2	233.8	257.7	252.4
70°	443.7	180.7	199.3	212.6	207.2
72.5°	294.9	154.1	175.4	180.7	178.0
75°	196.6	135.5	159.4	159.4	156.8
77.5°	127.5	119.6	148.8	146.1	140.8
80°	79.7	106.3	138.2	132.8	127.5
82.5°	47.8	93.0	130.2	124.9	119.6
85°	21.3	82.4	122.2	122.2	119.6
87.5°	8.0	74.4	114.2	116.9	111.6
90°	0.0	63.8	106.3	103.6	95.6
92.5°	0.0	58.5	95.6	87.7	82.4
95°	0.0	50.5	85.0	77.1	71.7
97.5°	0.0	45.2	77.1	69.1	63.8
100°	0.0	39.9	69.1	61.1	55.8
102.5°	0.0	34.5	63.8	55.8	53.1
105°	0.0	31.9	58.5	53.1	47.8
107.5°	0.0	29.2	53.1	47.8	45.2
110°	0.0	23.9	47.8	45.2	42.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	21.3	42.5	42.5	42.5
115°	0.0	18.6	39.9	39.9	39.9
117.5°	0.0	15.9	34.5	39.9	39.9
120°	0.0	15.9	31.9	37.2	37.2
122.5°	0.0	13.3	29.2	37.2	37.2
125°	0.0	10.6	26.6	34.5	31.9
127.5°	0.0	8.0	23.9	29.2	29.2
130°	0.0	8.0	21.3	26.6	23.9
132.5°	0.0	5.3	18.6	21.3	21.3
135°	0.0	5.3	15.9	18.6	18.6
137.5°	0.0	5.3	13.3	15.9	13.3
140°	0.0	2.7	10.6	13.3	10.6
142.5°	0.0	2.7	10.6	13.3	10.6
145°	0.0	2.7	8.0	10.6	8.0
147.5°	0.0	2.7	5.3	8.0	8.0
150°	0.0	2.7	5.3	8.0	5.3
152.5°	0.0	2.7	5.3	5.3	2.7
155°	0.0	2.7	2.7	5.3	2.7
157.5°	0.0	2.7	2.7	2.7	2.7
160°	2.7	2.7	2.7	2.7	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)