

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: P218207

Luminaire Tested: **4SNLED-LD5-49SL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35686)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-49SL-LN-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4696.0 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.04 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Direct

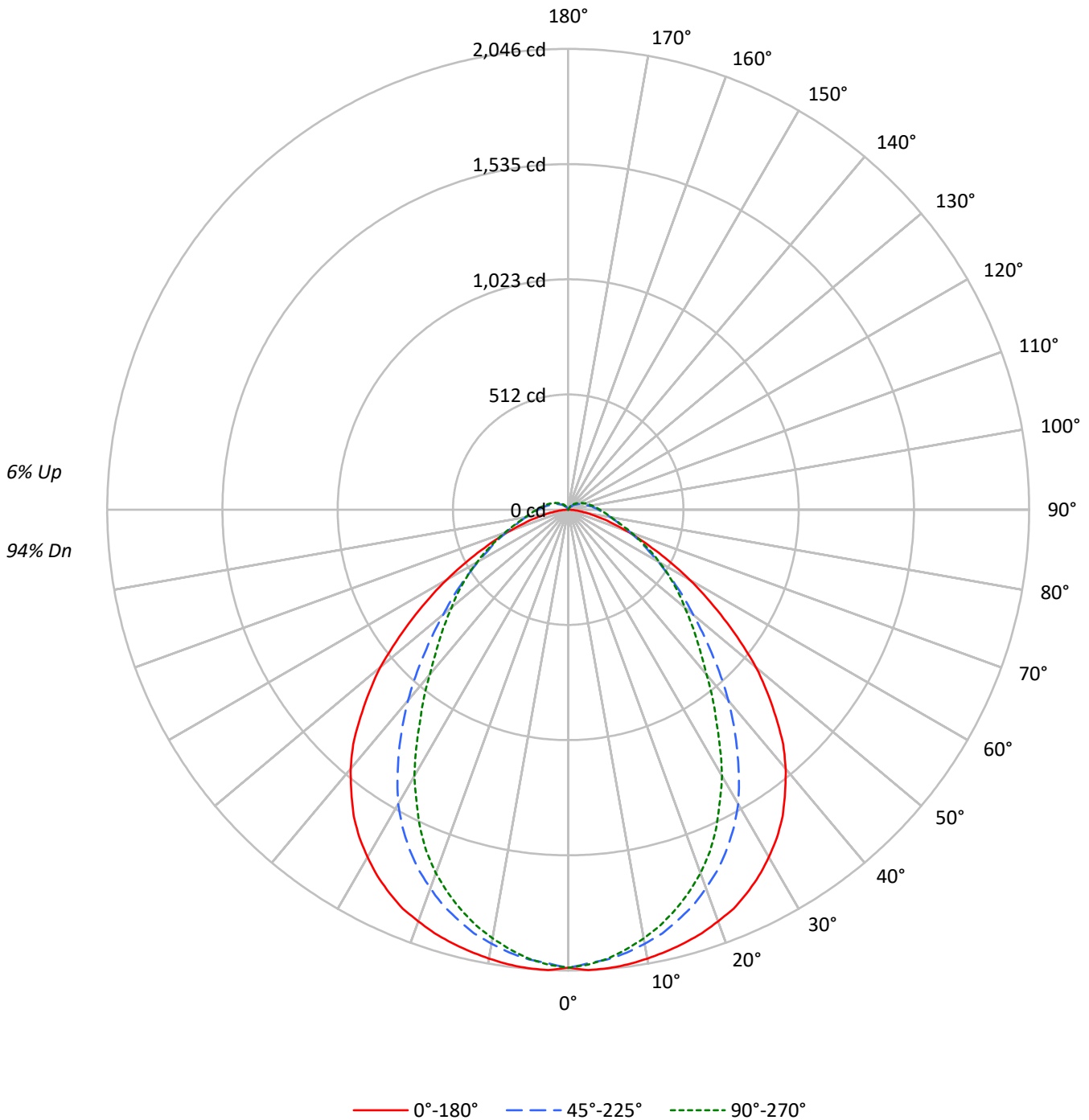
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218207

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218207

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L830-CD1-U

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	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	108	103	99	95	105	100	97	93	95	92	89	90	88	86	86	84	82	80
2	99	91	85	79	96	89	83	78	84	79	75	80	76	73	77	73	70	68
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	64	61	59
4	84	73	64	58	81	71	63	57	68	61	56	65	59	55	62	57	53	51
5	77	65	57	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45
6	72	59	51	45	70	58	50	44	56	49	44	54	47	43	52	46	42	40
7	67	54	46	40	65	53	45	40	51	44	39	49	43	38	47	42	38	36
8	63	50	42	36	61	49	41	36	47	40	35	45	39	35	44	38	34	32
9	59	46	38	33	57	45	38	33	43	37	32	42	36	32	41	35	31	29
10	55	42	35	30	54	42	35	30	40	34	29	39	33	29	38	32	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32770	32770	32770
5°	32935	30453	29772
10°	32872	28340	26877
15°	32858	26266	24186
20°	32848	24189	21586
25°	32750	22035	18869
30°	32365	19702	16110
35°	31729	16985	13253
40°	30521	14376	10923
45°	28523	11818	9162
50°	25996	9644	7725
55°	22369	7960	6583
60°	18739	6517	5516
65°	14890	5412	4560
70°	11606	4548	3764
75°	8796	3863	3125
80°	6122	3414	2685
85°	3717	3107	2429



TEST NUMBER: P218207

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	4.1
10°-20°	536.6	11.4
20°-30°	777.0	16.5
30°-40°	845.7	18.0
40°-50°	751.1	16.0
50°-60°	571.7	12.2
60°-70°	379.6	8.1
70°-80°	231.3	4.9
80°-90°	143.3	3.1
90°-100°	97.9	2.1
100°-110°	68.7	1.5
110°-120°	46.8	1.0
120°-130°	29.7	0.6
130°-140°	16.9	0.4
140°-150°	7.9	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1504.8	32.0
0°-40°	2350.6	50.1
0°-60°	3673.4	78.2
0°-90°	4427.6	94.3
90°-120°	213.4	4.5
90°-150°	267.9	5.7
90°-180°	268.0	5.7
0°-180°	4696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2034	2034	2034	2034	2034	
5°	2044	2031	2004	2014	2002	194
15°	1992	1957	1885	1863	1838	563
25°	1878	1794	1665	1598	1556	865
35°	1660	1512	1309	1195	1146	1034
45°	1304	1108	901	824	804	1004
55°	844	685	581	572	569	757
65°	426	366	366	381	376	429
75°	163	186	233	245	238	177
85°	30	94	158	168	163	35
90°	0	69	134	146	141	2
95°	0	54	114	126	124	0
105°	0	35	82	94	94	0
115°	0	22	59	72	69	0
125°	0	15	40	50	50	0
135°	0	10	27	35	35	0
145°	0	5	15	20	20	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P218207

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2033.7	2033.7	2033.7	2033.7	2033.7
2.5°	2046.1	2036.2	2016.4	2028.8	2021.4
5°	2043.6	2031.2	2004.0	2013.9	2001.6
7.5°	2036.2	2021.4	1984.2	1989.2	1969.4
10°	2023.8	2004.0	1957.0	1952.1	1932.3
12.5°	2009.0	1984.2	1927.3	1910.0	1890.2
15°	1991.7	1957.0	1885.3	1863.0	1838.3
17.5°	1971.9	1924.9	1843.2	1808.6	1781.4
20°	1944.7	1887.8	1788.8	1746.7	1717.0
22.5°	1917.4	1843.2	1731.9	1675.0	1642.8
25°	1877.9	1793.7	1665.1	1598.3	1556.2
27.5°	1833.3	1736.8	1590.9	1504.3	1457.3
30°	1781.4	1670.0	1509.2	1407.8	1365.7
32.5°	1724.5	1595.8	1410.2	1301.4	1254.4
35°	1660.1	1511.7	1308.8	1195.0	1145.5
37.5°	1581.0	1420.1	1207.4	1091.1	1051.5
40°	1501.8	1323.7	1105.9	997.1	955.0
42.5°	1412.7	1217.3	1002.0	903.1	873.4
45°	1303.9	1108.4	900.6	823.9	804.1
47.5°	1197.5	997.1	809.0	754.6	737.3
50°	1088.6	888.2	722.4	687.8	675.4
52.5°	962.4	781.8	650.7	628.4	623.5
55°	843.7	685.3	581.4	571.5	569.0
57.5°	729.9	593.8	517.1	524.5	519.6
60°	623.5	509.7	460.2	470.1	467.6
62.5°	519.6	433.0	408.2	428.0	423.1
65°	425.5	366.2	366.2	381.0	376.1
67.5°	343.9	311.7	326.6	341.4	336.5
70°	274.6	262.3	291.9	304.3	299.4
72.5°	212.8	220.2	257.3	272.2	264.7
75°	163.3	185.6	232.6	244.9	237.5
77.5°	116.3	155.9	210.3	220.2	212.8
80°	81.6	131.1	190.5	200.4	193.0
82.5°	52.0	111.3	173.2	183.1	178.1
85°	29.7	94.0	158.3	168.2	163.3
87.5°	14.8	81.6	143.5	155.9	150.9
90°	0.0	69.3	133.6	146.0	141.0
92.5°	0.0	61.9	123.7	136.1	131.1
95°	0.0	54.4	113.8	126.2	123.7
97.5°	0.0	49.5	106.4	118.8	113.8
100°	0.0	42.1	96.5	108.9	106.4
102.5°	0.0	39.6	89.1	101.4	99.0
105°	0.0	34.6	81.6	94.0	94.0
107.5°	0.0	32.2	76.7	89.1	86.6
110°	0.0	27.2	69.3	81.6	81.6



TEST NUMBER: P218207

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	24.7	64.3	76.7	74.2
115°	0.0	22.3	59.4	71.7	69.3
117.5°	0.0	22.3	54.4	64.3	64.3
120°	0.0	19.8	49.5	59.4	59.4
122.5°	0.0	17.3	44.5	54.4	54.4
125°	0.0	14.8	39.6	49.5	49.5
127.5°	0.0	14.8	37.1	47.0	47.0
130°	0.0	12.4	32.2	42.1	42.1
132.5°	0.0	9.9	29.7	37.1	37.1
135°	0.0	9.9	27.2	34.6	34.6
137.5°	0.0	7.4	22.3	29.7	29.7
140°	0.0	7.4	19.8	27.2	27.2
142.5°	0.0	4.9	17.3	24.7	22.3
145°	0.0	4.9	14.8	19.8	19.8
147.5°	0.0	2.5	12.4	17.3	17.3
150°	0.0	2.5	9.9	14.8	12.4
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	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)