

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: P284488

Luminaire Tested: **8SNLED-LD5-108SL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P284488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-108SL-SLW-UNV-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10666.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

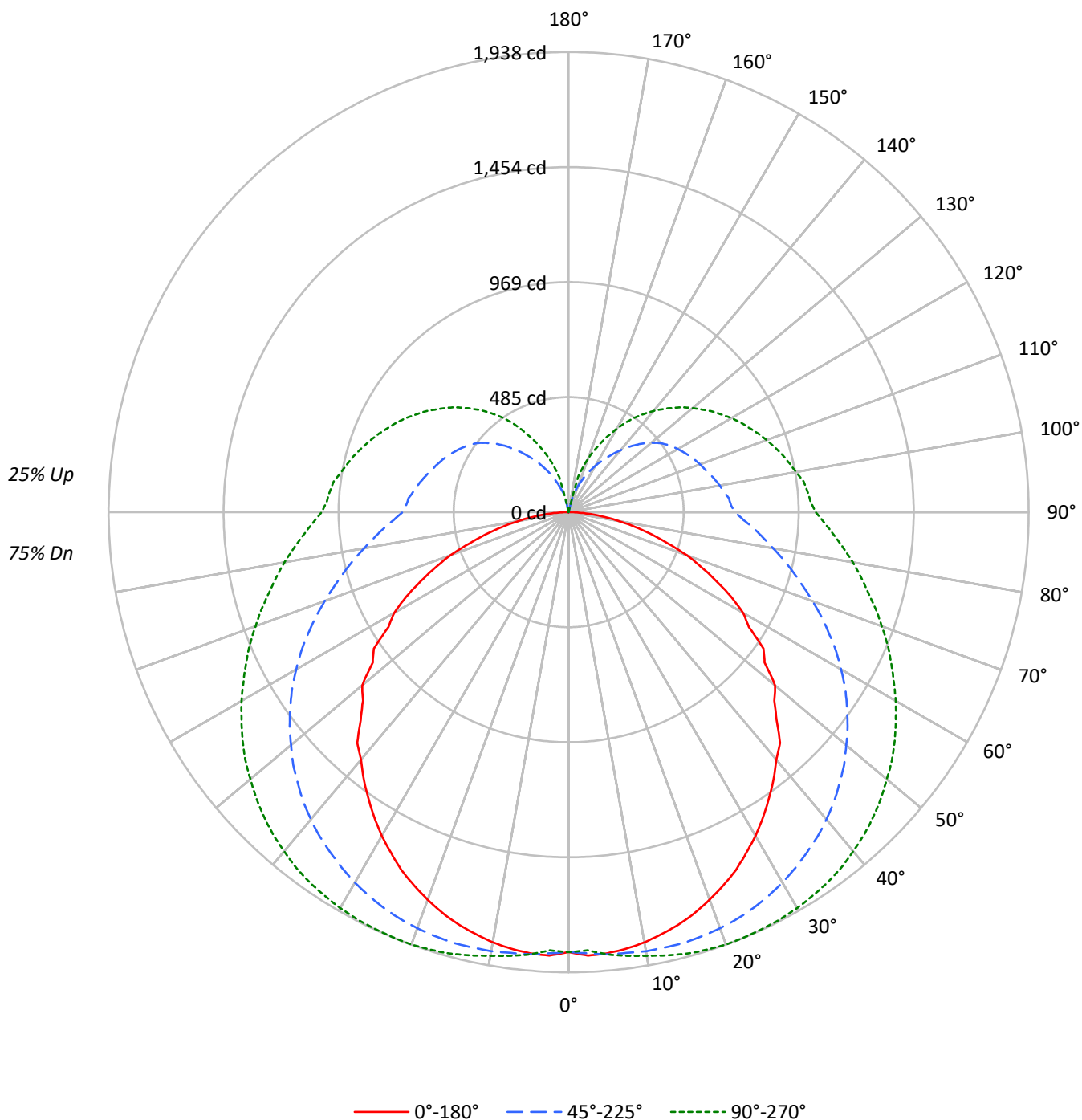
Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	113	113	113	113	107	107	107	107		97	97	97			88	88	88			75
1	100	94	89	84	95	89	84	80		80	76	73			72	69	66			56
2	90	80	72	66	85	76	69	63		68	63	58			61	57	53			44
3	81	69	60	53	76	66	58	51		59	53	47			53	48	43			36
4	74	61	51	44	69	58	49	43		52	45	39			47	41	36			30
5	67	54	44	37	63	51	43	36		46	39	33			42	35	31			25
6	62	48	39	32	58	46	37	31		41	34	29			37	31	27			22
7	57	43	34	28	54	41	33	27		37	30	25			34	28	23			19
8	53	39	31	25	50	37	29	24		34	27	22			31	25	21			17
9	49	36	27	22	47	34	26	21		31	24	20			28	23	18			15
10	46	33	25	20	44	31	24	19		29	22	18			26	21	16			13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7485	7485	7485
5°	7553	7403	7341
10°	7527	7345	7300
15°	7486	7312	7316
20°	7426	7285	7330
25°	7367	7265	7342
30°	7277	7249	7381
35°	7177	7231	7431
40°	7085	7233	7480
45°	6968	7224	7539
50°	7008	7217	7599
55°	6906	7227	7689
60°	6684	7243	7793
65°	6351	7266	7939
70°	5991	7338	8162
75°	5328	7530	8492
80°	4613	7924	9039
85°	3646	8712	9838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	1.7
10°-20°	527.6	4.9
20°-30°	838.6	7.9
30°-40°	1076.3	10.1
40°-50°	1215.4	11.4
50°-60°	1240.2	11.6
60°-70°	1148.9	10.8
70°-80°	972.7	9.1
80°-90°	776.4	7.3
90°-100°	659.3	6.2
100°-110°	587.4	5.5
110°-120°	500.3	4.7
120°-130°	397.4	3.7
130°-140°	281.9	2.6
140°-150°	168.3	1.6
150°-160°	78.5	0.7
160°-170°	18.6	0.2
170°-180°	0.0	0.0
0°-30°	1544.3	14.5
0°-40°	2620.5	24.6
0°-60°	5076.1	47.6
0°-90°	7974.2	74.8
90°-120°	1747.1	16.4
90°-150°	2594.7	24.3
90°-180°	2692.0	25.2
0°-180°	10666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1865	1850	1869	1869	1869	177
15°	1797	1812	1878	1912	1925	507
25°	1664	1719	1840	1905	1935	766
35°	1471	1579	1750	1857	1902	921
45°	1238	1406	1614	1754	1815	962
55°	1002	1171	1431	1606	1677	880
65°	686	915	1211	1418	1499	681
75°	361	639	980	1221	1306	384
85°	93	411	782	1035	1123	101
90°	5	336	699	952	1040	7
95°	0	316	677	925	1010	0
105°	0	291	617	850	933	0
115°	0	270	561	764	839	0
125°	0	233	498	674	739	0
135°	0	173	401	569	622	1
145°	0	113	281	426	486	1
155°	3	70	173	260	323	1
165°	3	38	78	108	153	1
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°	1852.5	1852.5	1852.5	1852.5	1852.5
2.5°	1869.4	1849.8	1859.9	1857.2	1847.1
5°	1864.7	1849.8	1869.4	1869.4	1869.4
7.5°	1854.5	1844.4	1872.1	1882.2	1884.9
10°	1839.6	1839.6	1877.5	1892.4	1897.1
12.5°	1819.3	1826.8	1877.5	1899.8	1912.0
15°	1797.0	1811.9	1877.5	1912.0	1924.9
17.5°	1769.3	1794.3	1872.1	1914.7	1932.3
20°	1736.8	1774.7	1864.7	1914.7	1937.7
22.5°	1701.7	1749.7	1854.5	1910.0	1937.7
25°	1664.5	1719.2	1839.6	1904.6	1935.0
27.5°	1619.1	1689.5	1822.0	1897.1	1932.3
30°	1573.8	1654.3	1801.8	1887.0	1924.9
32.5°	1523.8	1616.4	1776.7	1872.1	1914.7
35°	1471.0	1579.2	1749.7	1857.2	1902.5
37.5°	1418.3	1533.9	1722.0	1836.9	1887.0
40°	1360.8	1488.6	1689.5	1811.9	1864.7
42.5°	1318.2	1441.3	1654.3	1786.9	1842.3
45°	1238.4	1406.1	1613.7	1754.4	1814.6
47.5°	1175.5	1338.5	1573.8	1722.0	1784.2
50°	1135.6	1283.0	1526.5	1684.1	1749.7
52.5°	1040.2	1245.8	1481.2	1646.9	1716.5
55°	1002.3	1170.7	1431.1	1606.3	1676.6
57.5°	899.5	1118.0	1381.1	1561.7	1634.0
60°	849.5	1044.9	1325.6	1516.3	1591.4
62.5°	771.7	982.7	1270.8	1466.3	1544.1
65°	686.5	915.1	1210.6	1418.3	1498.8
67.5°	606.7	847.4	1153.2	1368.2	1453.4
70°	528.9	777.1	1093.0	1318.2	1403.4
72.5°	438.3	706.8	1034.8	1270.8	1356.1
75°	361.2	639.1	980.0	1220.8	1306.0
77.5°	285.4	574.2	927.3	1175.5	1260.7
80°	215.8	511.3	874.5	1128.1	1215.4
82.5°	150.1	458.6	827.2	1082.8	1168.0
85°	92.7	411.2	781.8	1034.8	1122.7
87.5°	42.6	368.6	736.5	990.2	1080.1
90°	4.7	336.1	699.3	952.3	1040.2
92.5°	2.7	326.0	684.5	934.7	1019.9
95°	0.0	315.8	677.0	924.6	1009.8
97.5°	0.0	305.7	659.4	909.7	997.6
100°	0.0	301.0	646.6	887.4	972.6
102.5°	0.0	293.5	631.7	867.1	952.3
105°	0.0	290.8	616.8	849.5	932.7
107.5°	0.0	285.4	601.3	827.2	909.7
110°	0.0	280.7	589.1	806.9	887.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	275.9	576.2	787.3	864.4
115°	0.0	270.5	561.4	764.3	839.3
117.5°	0.0	263.1	546.5	741.9	817.0
120°	0.0	252.9	531.6	721.6	792.0
122.5°	0.0	242.8	516.0	696.6	764.3
125°	0.0	233.3	498.5	674.3	739.2
127.5°	0.0	217.8	478.8	649.3	709.5
130°	0.0	202.9	453.8	624.3	681.7
132.5°	2.7	188.0	428.8	596.5	654.0
135°	0.0	173.1	401.1	568.8	621.6
137.5°	0.0	160.3	370.6	539.0	589.1
140°	0.0	145.4	340.9	503.9	556.6
142.5°	0.0	127.8	311.1	466.0	521.5
145°	0.0	112.9	280.7	426.1	486.3
147.5°	2.7	100.1	252.9	383.5	448.4
150°	2.7	90.0	225.9	340.9	405.8
152.5°	2.7	80.5	198.2	301.0	363.2
155°	2.7	70.3	173.1	260.4	323.3
157.5°	2.7	60.2	145.4	220.5	280.7
160°	2.7	52.8	120.4	185.3	240.8
162.5°	2.7	45.3	98.1	145.4	198.2
165°	2.7	37.9	77.8	107.5	152.9
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)