

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: P284761

Luminaire Tested: **8SNLED-LD5-108SL-SLW-UNV-L950-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: P284761
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-L950-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: 9945.0 lumens
Efficiency: N/A
Efficacy: 90.4 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

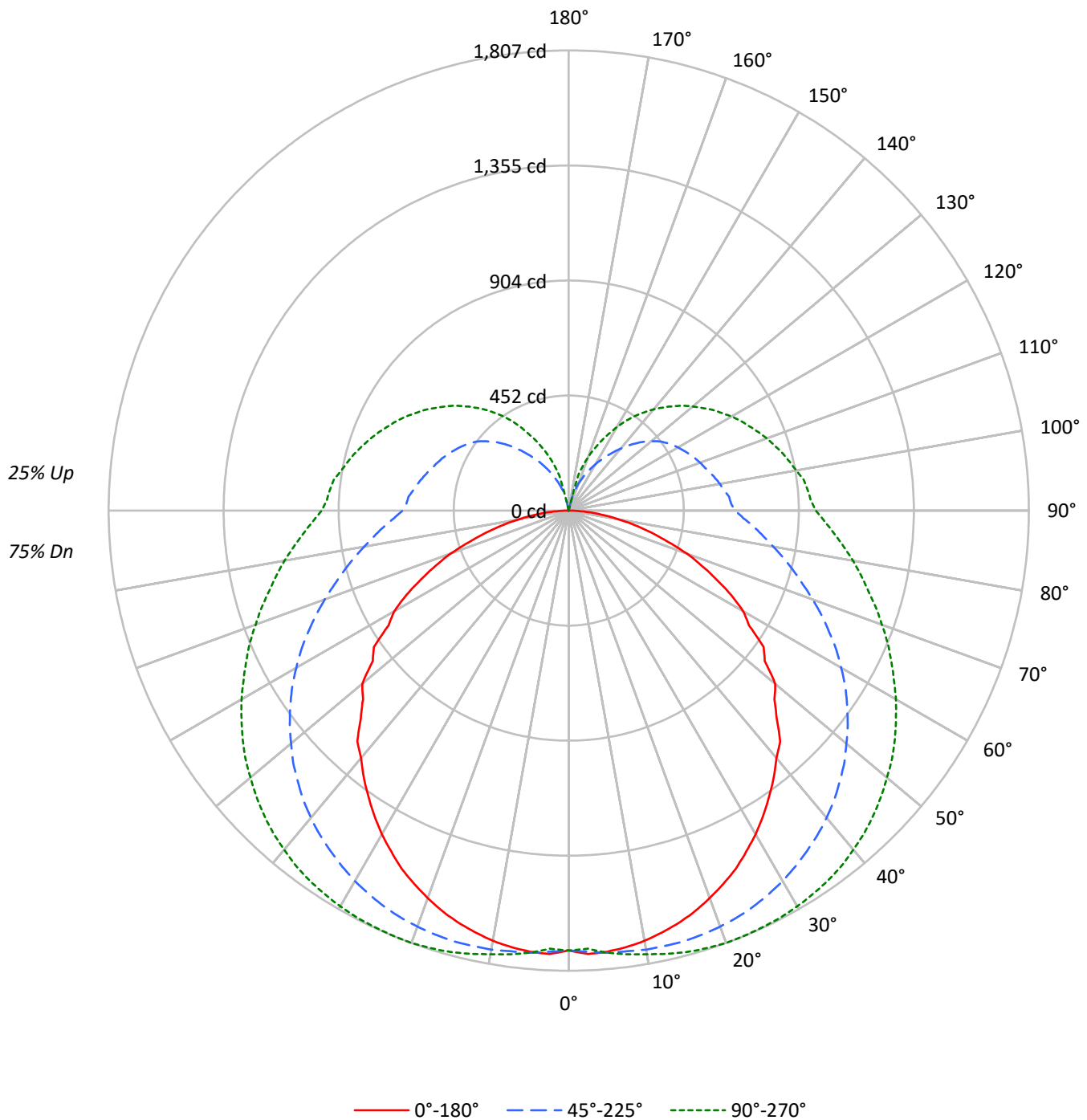
Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6979	6979	6979
5°	7042	6903	6845
10°	7018	6849	6807
15°	6979	6818	6821
20°	6924	6792	6835
25°	6869	6774	6845
30°	6785	6759	6882
35°	6692	6742	6929
40°	6606	6744	6974
45°	6497	6736	7029
50°	6534	6729	7085
55°	6440	6739	7169
60°	6232	6754	7266
65°	5921	6775	7402
70°	5586	6842	7610
75°	4967	7021	7918
80°	4301	7388	8427
85°	3399	8124	9173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	1.7
10°-20°	492.0	4.9
20°-30°	781.9	7.9
30°-40°	1003.5	10.1
40°-50°	1133.2	11.4
50°-60°	1156.3	11.6
60°-70°	1071.3	10.8
70°-80°	907.0	9.1
80°-90°	723.9	7.3
90°-100°	614.8	6.2
100°-110°	547.7	5.5
110°-120°	466.5	4.7
120°-130°	370.5	3.7
130°-140°	262.9	2.6
140°-150°	156.9	1.6
150°-160°	73.2	0.7
160°-170°	17.4	0.2
170°-180°	0.0	0.0
0°-30°	1439.9	14.5
0°-40°	2443.4	24.6
0°-60°	4733.0	47.6
0°-90°	7435.2	74.8
90°-120°	1629.0	16.4
90°-150°	2419.3	24.3
90°-180°	2510.0	25.2
0°-180°	9945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1739	1725	1743	1743	1743	165
15°	1676	1689	1751	1783	1795	473
25°	1552	1603	1715	1776	1804	714
35°	1372	1472	1631	1732	1774	859
45°	1155	1311	1505	1636	1692	897
55°	935	1092	1334	1498	1563	821
65°	640	853	1129	1322	1397	635
75°	337	596	914	1138	1218	358
85°	86	383	729	965	1047	94
90°	4	313	652	888	970	7
95°	0	294	631	862	942	0
105°	0	271	575	792	870	0
115°	0	252	523	713	783	0
125°	0	218	465	629	689	0
135°	0	161	374	530	580	1
145°	0	105	262	397	453	1
155°	2	66	161	243	301	1
165°	2	35	72	100	142	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°	1727.3	1727.3	1727.3	1727.3	1727.3
2.5°	1743.0	1724.7	1734.2	1731.7	1722.2
5°	1738.6	1724.7	1743.0	1743.0	1743.0
7.5°	1729.2	1719.7	1745.5	1755.0	1757.5
10°	1715.3	1715.3	1750.6	1764.5	1768.9
12.5°	1696.4	1703.3	1750.6	1771.4	1782.8
15°	1675.5	1689.4	1750.6	1782.8	1794.7
17.5°	1649.7	1673.0	1745.5	1785.3	1801.7
20°	1619.4	1654.7	1738.6	1785.3	1806.7
22.5°	1586.6	1631.4	1729.2	1780.9	1806.7
25°	1551.9	1603.0	1715.3	1775.8	1804.2
27.5°	1509.7	1575.3	1698.9	1768.9	1801.7
30°	1467.4	1542.5	1680.0	1759.4	1794.7
32.5°	1420.8	1507.2	1656.6	1745.5	1785.3
35°	1371.6	1472.5	1631.4	1731.7	1773.9
37.5°	1322.4	1430.2	1605.5	1712.8	1759.4
40°	1268.8	1388.0	1575.3	1689.4	1738.6
42.5°	1229.1	1343.8	1542.5	1666.1	1717.8
45°	1154.7	1311.1	1504.7	1635.8	1691.9
47.5°	1096.0	1248.0	1467.4	1605.5	1663.6
50°	1058.8	1196.3	1423.3	1570.2	1631.4
52.5°	969.9	1161.6	1381.1	1535.6	1600.5
55°	934.6	1091.6	1334.4	1497.7	1563.3
57.5°	838.7	1042.4	1287.7	1456.1	1523.6
60°	792.1	974.3	1236.0	1413.8	1483.8
62.5°	719.5	916.3	1184.9	1367.2	1439.7
65°	640.1	853.2	1128.8	1322.4	1397.4
67.5°	565.7	790.2	1075.2	1275.7	1355.2
70°	493.1	724.6	1019.1	1229.1	1308.5
72.5°	408.6	659.0	964.8	1184.9	1264.4
75°	336.7	595.9	913.8	1138.3	1217.7
77.5°	266.1	535.4	864.6	1096.0	1175.5
80°	201.2	476.7	815.4	1051.9	1133.2
82.5°	140.0	427.6	771.2	1009.6	1089.1
85°	86.4	383.4	729.0	964.8	1046.8
87.5°	39.7	343.7	686.7	923.2	1007.1
90°	4.4	313.4	652.1	887.9	969.9
92.5°	2.5	304.0	638.2	871.5	951.0
95°	0.0	294.5	631.2	862.1	941.5
97.5°	0.0	285.0	614.9	848.2	930.2
100°	0.0	280.6	602.9	827.4	906.8
102.5°	0.0	273.7	589.0	808.5	887.9
105°	0.0	271.2	575.1	792.1	869.6
107.5°	0.0	266.1	560.6	771.2	848.2
110°	0.0	261.7	549.3	752.3	827.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	257.3	537.3	734.0	805.9
115°	0.0	252.2	523.4	712.6	782.6
117.5°	0.0	245.3	509.5	691.8	761.8
120°	0.0	235.9	495.7	672.9	738.5
122.5°	0.0	226.4	481.2	649.5	712.6
125°	0.0	217.6	464.8	628.7	689.3
127.5°	0.0	203.1	446.5	605.4	661.5
130°	0.0	189.2	423.1	582.1	635.7
132.5°	2.5	175.3	399.8	556.2	609.8
135°	0.0	161.4	374.0	530.3	579.5
137.5°	0.0	149.5	345.6	502.6	549.3
140°	0.0	135.6	317.8	469.8	519.0
142.5°	0.0	119.2	290.1	434.5	486.2
145°	0.0	105.3	261.7	397.3	453.4
147.5°	2.5	93.3	235.9	357.6	418.1
150°	2.5	83.9	210.6	317.8	378.4
152.5°	2.5	75.0	184.8	280.6	338.6
155°	2.5	65.6	161.4	242.8	301.4
157.5°	2.5	56.1	135.6	205.6	261.7
160°	2.5	49.2	112.2	172.8	224.5
162.5°	2.5	42.3	91.4	135.6	184.8
165°	2.5	35.3	72.5	100.3	142.5
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)