

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: P284605

Luminaire Tested: **8SNLED-LD5-108SL-SLW-UNV-L850-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: P284605
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-L850-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: 11033.0 lumens
Efficiency: N/A
Efficacy: 100.3 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

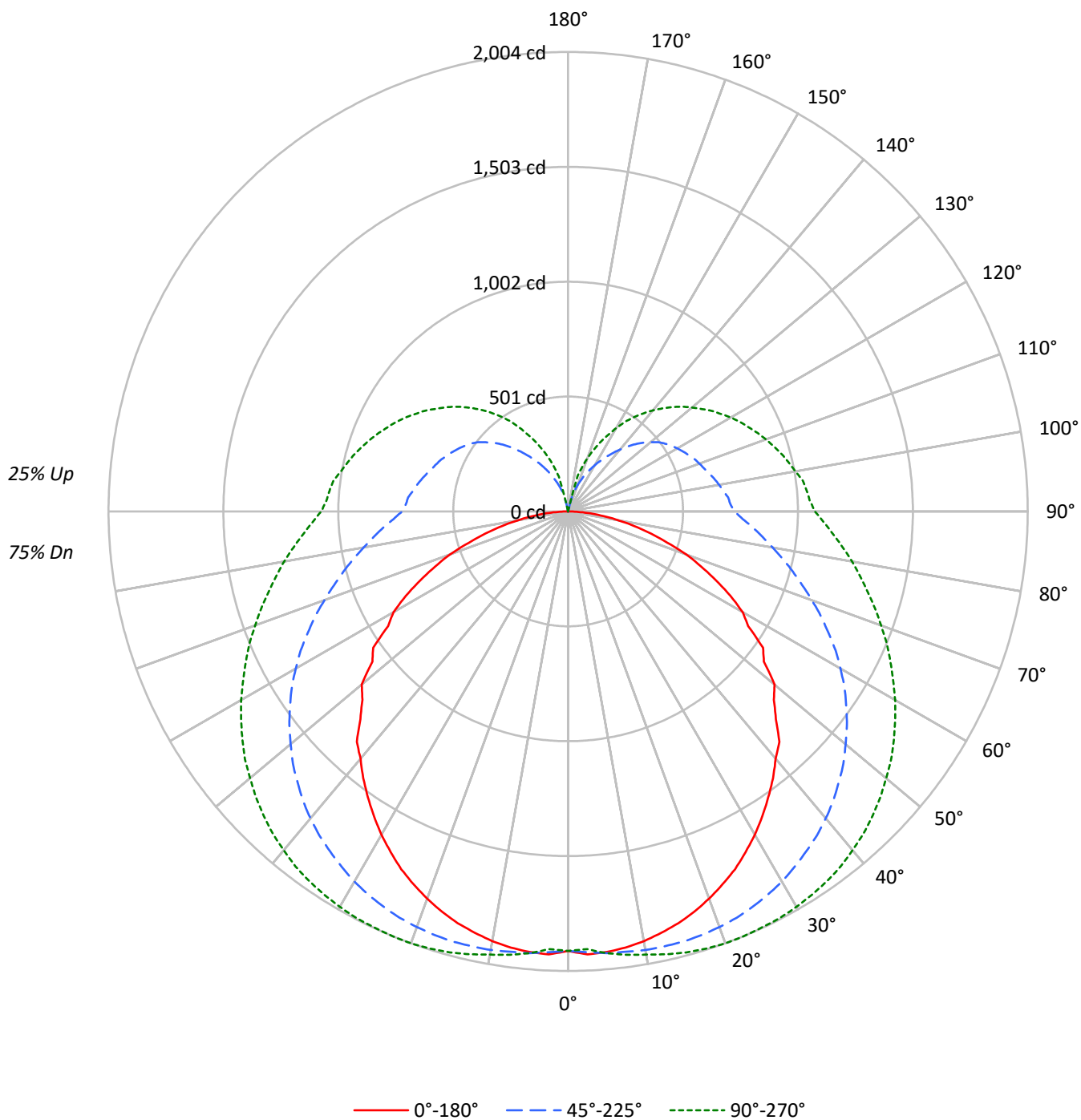
Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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°	7742	7742	7742
5°	7812	7658	7594
10°	7786	7598	7552
15°	7743	7564	7568
20°	7681	7535	7583
25°	7620	7515	7594
30°	7528	7499	7635
35°	7424	7479	7687
40°	7328	7482	7737
45°	7207	7473	7798
50°	7248	7466	7860
55°	7144	7476	7953
60°	6914	7493	8062
65°	6569	7516	8212
70°	6197	7591	8443
75°	5511	7789	8784
80°	4771	8197	9349
85°	3768	9012	10176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	1.7
10°-20°	545.8	4.9
20°-30°	867.5	7.9
30°-40°	1113.3	10.1
40°-50°	1257.2	11.4
50°-60°	1282.8	11.6
60°-70°	1188.5	10.8
70°-80°	1006.2	9.1
80°-90°	803.1	7.3
90°-100°	682.0	6.2
100°-110°	607.6	5.5
110°-120°	517.5	4.7
120°-130°	411.0	3.7
130°-140°	291.6	2.6
140°-150°	174.1	1.6
150°-160°	81.2	0.7
160°-170°	19.3	0.2
170°-180°	0.0	0.0
0°-30°	1597.4	14.5
0°-40°	2710.7	24.6
0°-60°	5250.8	47.6
0°-90°	8248.6	74.8
90°-120°	1807.2	16.4
90°-150°	2683.9	24.3
90°-180°	2784.0	25.2
0°-180°	11033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1916	1916	1916	1916	1916	
5°	1929	1913	1934	1934	1934	183
15°	1859	1874	1942	1978	1991	524
25°	1722	1778	1903	1970	2002	793
35°	1522	1634	1810	1921	1968	953
45°	1281	1454	1669	1815	1877	995
55°	1037	1211	1480	1662	1734	910
65°	710	947	1252	1467	1550	705
75°	374	661	1014	1263	1351	397
85°	96	425	809	1070	1161	105
90°	5	348	723	985	1076	8
95°	0	327	700	956	1044	0
105°	0	301	638	879	965	0
115°	0	280	581	791	868	0
125°	0	241	516	698	765	0
135°	0	179	415	588	643	1
145°	0	117	290	441	503	1
155°	3	73	179	269	334	1
165°	3	39	80	111	158	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284605

CATALOG NUMBER: 8SNLED-LD5-108SL-SLW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1916.2	1916.2	1916.2	1916.2	1916.2
2.5°	1933.7	1913.4	1923.9	1921.1	1910.6
5°	1928.8	1913.4	1933.7	1933.7	1933.7
7.5°	1918.3	1907.8	1936.5	1947.0	1949.8
10°	1902.9	1902.9	1942.1	1957.5	1962.4
12.5°	1881.9	1889.6	1942.1	1965.2	1977.8
15°	1858.9	1874.2	1942.1	1977.8	1991.1
17.5°	1830.2	1856.1	1936.5	1980.6	1998.8
20°	1796.6	1835.8	1928.8	1980.6	2004.4
22.5°	1760.2	1809.9	1918.3	1975.7	2004.4
25°	1721.7	1778.4	1902.9	1970.1	2001.6
27.5°	1674.9	1747.6	1884.7	1962.4	1998.8
30°	1628.0	1711.2	1863.8	1951.9	1991.1
32.5°	1576.2	1672.1	1837.9	1936.5	1980.6
35°	1521.6	1633.6	1809.9	1921.1	1968.0
37.5°	1467.1	1586.7	1781.2	1900.1	1951.9
40°	1407.6	1539.8	1747.6	1874.2	1928.8
42.5°	1363.5	1490.9	1711.2	1848.4	1905.7
45°	1281.0	1454.5	1669.3	1814.8	1877.0
47.5°	1215.9	1384.5	1628.0	1781.2	1845.6
50°	1174.6	1327.2	1579.0	1742.0	1809.9
52.5°	1076.0	1288.7	1532.1	1703.5	1775.6
55°	1036.8	1211.0	1480.4	1661.6	1734.3
57.5°	930.5	1156.5	1428.6	1615.4	1690.3
60°	878.7	1080.9	1371.2	1568.5	1646.2
62.5°	798.3	1016.5	1314.6	1516.7	1597.2
65°	710.1	946.6	1252.3	1467.1	1550.3
67.5°	627.5	876.6	1192.8	1415.3	1503.5
70°	547.1	803.8	1130.6	1363.5	1451.7
72.5°	453.3	731.1	1070.4	1314.6	1402.7
75°	373.6	661.1	1013.7	1262.8	1350.9
77.5°	295.2	594.0	959.2	1215.9	1304.1
80°	223.2	528.9	904.6	1166.9	1257.2
82.5°	155.3	474.3	855.6	1120.1	1208.2
85°	95.8	425.4	808.7	1070.4	1161.3
87.5°	44.1	381.3	761.9	1024.2	1117.3
90°	4.9	347.7	723.4	985.0	1076.0
92.5°	2.8	337.2	708.0	966.9	1055.0
95°	0.0	326.7	700.3	956.4	1044.5
97.5°	0.0	316.2	682.1	941.0	1031.9
100°	0.0	311.3	668.8	917.9	1006.0
102.5°	0.0	303.6	653.4	896.9	985.0
105°	0.0	300.8	638.0	878.7	964.8
107.5°	0.0	295.2	622.0	855.6	941.0
110°	0.0	290.3	609.4	834.6	917.9



TEST NUMBER: P284605

CATALOG NUMBER: 8SNLED-LD5-108SL-SLW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	285.4	596.1	814.3	894.1
115°	0.0	279.8	580.7	790.6	868.2
117.5°	0.0	272.1	565.3	767.5	845.1
120°	0.0	261.7	549.9	746.5	819.2
122.5°	0.0	251.2	533.8	720.6	790.6
125°	0.0	241.4	515.6	697.5	764.7
127.5°	0.0	225.3	495.3	671.6	733.9
130°	0.0	209.9	469.4	645.7	705.2
132.5°	2.8	194.5	443.6	617.1	676.5
135°	0.0	179.1	414.9	588.4	642.9
137.5°	0.0	165.8	383.4	557.6	609.4
140°	0.0	150.4	352.6	521.2	575.8
142.5°	0.0	132.2	321.8	482.0	539.4
145°	0.0	116.8	290.3	440.8	503.0
147.5°	2.8	103.5	261.7	396.7	463.8
150°	2.8	93.0	233.7	352.6	419.8
152.5°	2.8	83.3	205.0	311.3	375.7
155°	2.8	72.8	179.1	269.3	334.4
157.5°	2.8	62.3	150.4	228.1	290.3
160°	2.8	54.6	124.5	191.7	249.1
162.5°	2.8	46.9	101.4	150.4	205.0
165°	2.8	39.2	80.5	111.2	158.1
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)