

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: P284527

Luminaire Tested: **8SNLED-LD5-108SL-SLW-UNV-L835-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: P284527
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-L835-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: 10850.0 lumens
Efficiency: N/A
Efficacy: 98.6 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

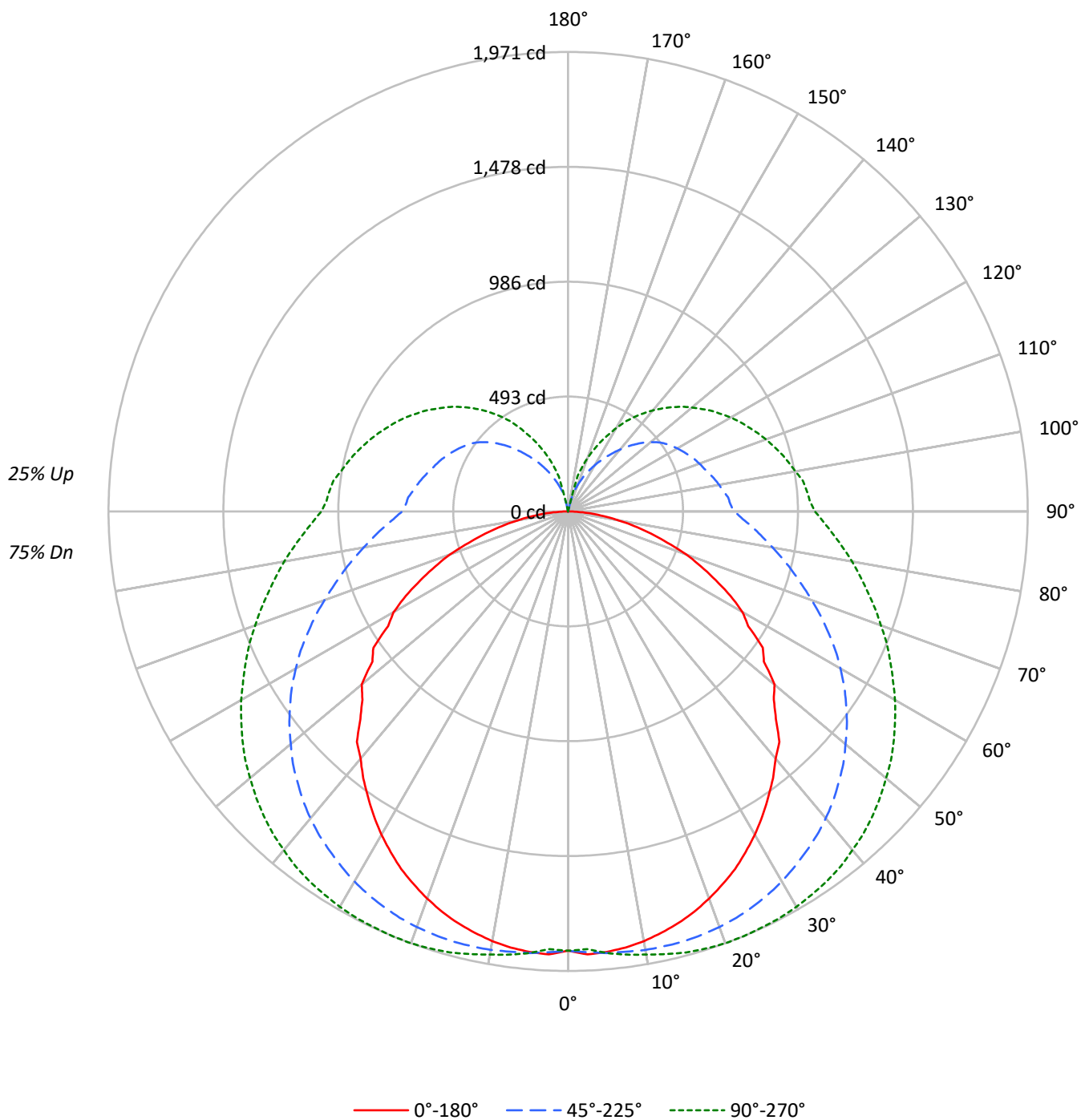
Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7614	7614	7614
5°	7683	7531	7468
10°	7657	7472	7426
15°	7615	7438	7442
20°	7554	7410	7457
25°	7494	7390	7468
30°	7403	7374	7508
35°	7301	7355	7560
40°	7207	7358	7608
45°	7087	7349	7669
50°	7129	7342	7730
55°	7026	7352	7822
60°	6799	7369	7928
65°	6460	7391	8075
70°	6094	7464	8303
75°	5420	7660	8638
80°	4692	8061	9194
85°	3709	8863	10008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	1.7
10°-20°	536.7	4.9
20°-30°	853.1	7.9
30°-40°	1094.9	10.1
40°-50°	1236.4	11.4
50°-60°	1261.6	11.6
60°-70°	1168.8	10.8
70°-80°	989.5	9.1
80°-90°	789.8	7.3
90°-100°	670.7	6.2
100°-110°	597.6	5.5
110°-120°	508.9	4.7
120°-130°	404.2	3.7
130°-140°	286.8	2.6
140°-150°	171.2	1.6
150°-160°	79.8	0.7
160°-170°	19.0	0.2
170°-180°	0.0	0.0
0°-30°	1570.9	14.5
0°-40°	2665.8	24.6
0°-60°	5163.7	47.6
0°-90°	8111.8	74.8
90°-120°	1777.2	16.4
90°-150°	2639.4	24.3
90°-180°	2738.0	25.2
0°-180°	10850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1897	1882	1902	1902	1902	180
15°	1828	1843	1910	1945	1958	516
25°	1693	1749	1871	1937	1968	779
35°	1496	1606	1780	1889	1935	937
45°	1260	1430	1642	1785	1846	978
55°	1020	1191	1456	1634	1706	895
65°	698	931	1232	1443	1525	693
75°	367	650	997	1242	1328	391
85°	94	418	795	1053	1142	103
90°	5	342	711	969	1058	8
95°	0	321	689	940	1027	0
105°	0	296	628	864	949	0
115°	0	275	571	777	854	0
125°	0	237	507	686	752	0
135°	0	176	408	579	632	1
145°	0	115	286	433	495	1
155°	3	72	176	265	329	1
165°	3	38	79	109	156	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°	1884.4	1884.4	1884.4	1884.4	1884.4
2.5°	1901.6	1881.7	1892.0	1889.3	1878.9
5°	1896.8	1881.7	1901.6	1901.6	1901.6
7.5°	1886.5	1876.2	1904.4	1914.7	1917.5
10°	1871.4	1871.4	1909.9	1925.0	1929.8
12.5°	1850.7	1858.3	1909.9	1932.6	1945.0
15°	1828.0	1843.2	1909.9	1945.0	1958.1
17.5°	1799.8	1825.3	1904.4	1947.7	1965.6
20°	1766.8	1805.3	1896.8	1947.7	1971.1
22.5°	1731.0	1779.9	1886.5	1942.9	1971.1
25°	1693.2	1748.9	1871.4	1937.4	1968.4
27.5°	1647.1	1718.6	1853.5	1929.8	1965.6
30°	1601.0	1682.9	1832.8	1919.5	1958.1
32.5°	1550.1	1644.3	1807.4	1904.4	1947.7
35°	1496.4	1606.5	1779.9	1889.3	1935.4
37.5°	1442.7	1560.4	1751.7	1868.6	1919.5
40°	1384.3	1514.3	1718.6	1843.2	1896.8
42.5°	1340.9	1466.1	1682.9	1817.7	1874.1
45°	1259.7	1430.4	1641.6	1784.7	1845.9
47.5°	1195.7	1361.6	1601.0	1751.7	1815.0
50°	1155.2	1305.1	1552.8	1713.1	1779.9
52.5°	1058.1	1267.3	1506.7	1675.3	1746.2
55°	1019.6	1190.9	1455.8	1634.0	1705.6
57.5°	915.0	1137.3	1404.9	1588.6	1662.2
60°	864.1	1063.0	1348.5	1542.5	1618.9
62.5°	785.0	999.7	1292.8	1491.6	1570.7
65°	698.3	930.9	1231.5	1442.7	1524.6
67.5°	617.1	862.1	1173.0	1391.8	1478.5
70°	538.0	790.5	1111.8	1340.9	1427.6
72.5°	445.8	719.0	1052.6	1292.8	1379.4
75°	367.4	650.2	996.9	1241.8	1328.5
77.5°	290.3	584.1	943.3	1195.7	1282.4
80°	219.5	520.1	889.6	1147.6	1236.3
82.5°	152.7	466.5	841.4	1101.5	1188.2
85°	94.3	418.3	795.3	1052.6	1142.1
87.5°	43.3	375.0	749.2	1007.2	1098.7
90°	4.8	341.9	711.4	968.7	1058.1
92.5°	2.8	331.6	696.3	950.8	1037.5
95°	0.0	321.3	688.7	940.5	1027.2
97.5°	0.0	311.0	670.8	925.4	1014.8
100°	0.0	306.2	657.7	902.7	989.3
102.5°	0.0	298.6	642.6	882.0	968.7
105°	0.0	295.8	627.5	864.1	948.8
107.5°	0.0	290.3	611.6	841.4	925.4
110°	0.0	285.5	599.3	820.8	902.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	280.7	586.2	800.8	879.3
115°	0.0	275.2	571.0	777.4	853.8
117.5°	0.0	267.6	555.9	754.7	831.1
120°	0.0	257.3	540.8	734.1	805.7
122.5°	0.0	247.0	524.9	708.6	777.4
125°	0.0	237.4	507.1	685.9	752.0
127.5°	0.0	221.5	487.1	660.5	721.7
130°	0.0	206.4	461.7	635.0	693.5
132.5°	2.8	191.3	436.2	606.8	665.3
135°	0.0	176.1	408.0	578.6	632.3
137.5°	0.0	163.1	377.0	548.3	599.3
140°	0.0	147.9	346.8	512.6	566.2
142.5°	0.0	130.0	316.5	474.0	530.5
145°	0.0	114.9	285.5	433.4	494.7
147.5°	2.8	101.8	257.3	390.1	456.1
150°	2.8	91.5	229.8	346.8	412.8
152.5°	2.8	81.9	201.6	306.2	369.5
155°	2.8	71.6	176.1	264.9	328.9
157.5°	2.8	61.2	147.9	224.3	285.5
160°	2.8	53.7	122.5	188.5	244.9
162.5°	2.8	46.1	99.8	147.9	201.6
165°	2.8	38.5	79.1	109.4	155.5
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)