

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: P284526

Luminaire Tested: **8SNLED-LD5-104SL-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: P284526
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-LD5-104SL-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: 10406.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

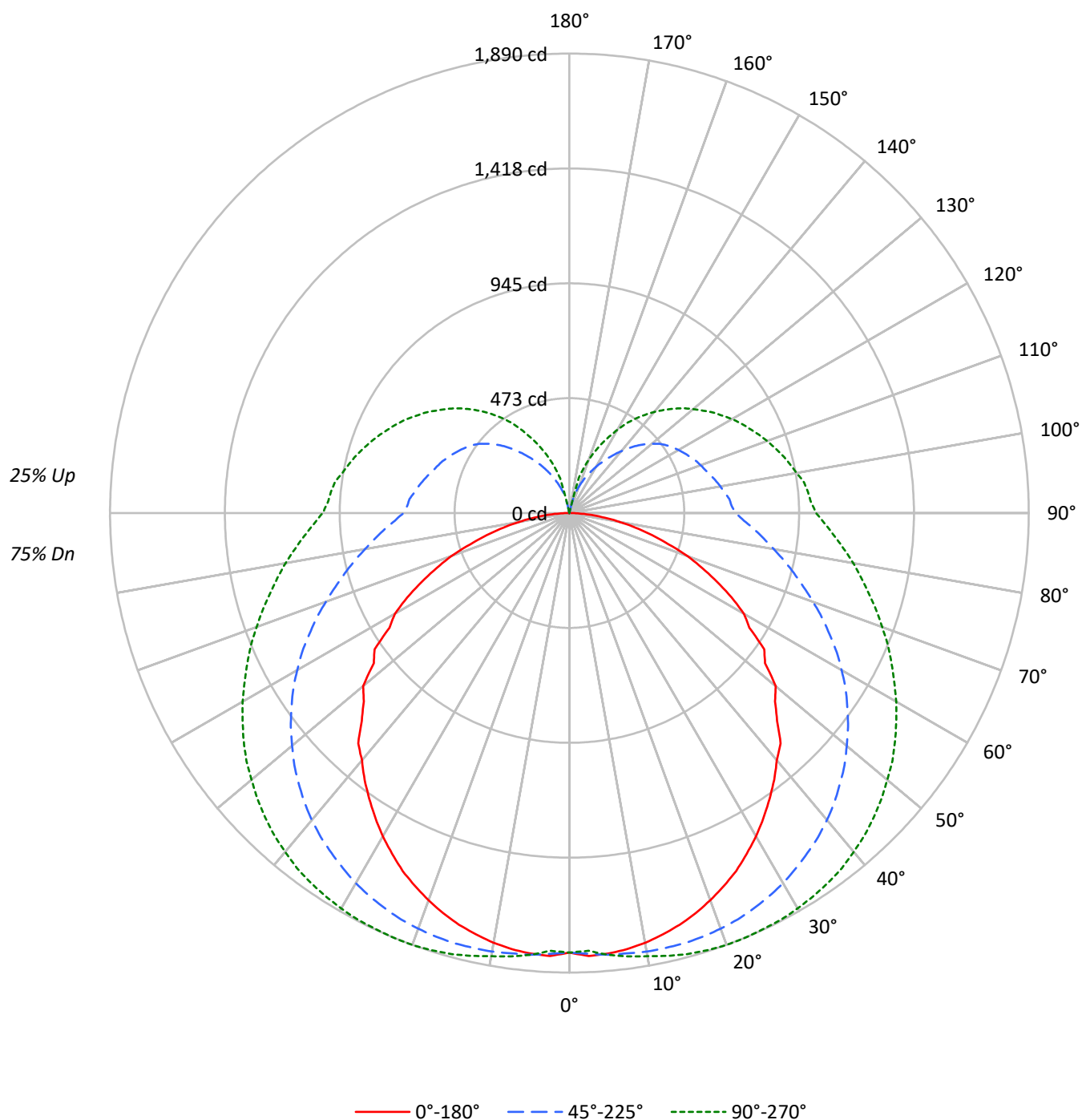
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284526

CATALOG NUMBER: 8SNLED-LD5-104SL-SLW-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284526

CATALOG NUMBER: 8SNLED-LD5-104SL-SLW-UNV-L835-CD1-U

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°	7302	7302	7302
5°	7368	7223	7162
10°	7344	7166	7123
15°	7303	7134	7137
20°	7245	7107	7152
25°	7187	7088	7162
30°	7100	7072	7201
35°	7003	7054	7250
40°	6912	7057	7297
45°	6798	7048	7355
50°	6837	7041	7414
55°	6738	7051	7502
60°	6521	7067	7603
65°	6195	7089	7745
70°	5845	7159	7963
75°	5198	7346	8285
80°	4499	7731	8818
85°	3556	8500	9598



TEST NUMBER: P284526

CATALOG NUMBER: 8SNLED-LD5-104SL-SLW-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	1.7
10°-20°	514.8	4.9
20°-30°	818.2	7.9
30°-40°	1050.0	10.1
40°-50°	1185.8	11.4
50°-60°	1209.9	11.6
60°-70°	1120.9	10.8
70°-80°	949.0	9.1
80°-90°	757.5	7.3
90°-100°	643.3	6.2
100°-110°	573.1	5.5
110°-120°	488.1	4.7
120°-130°	387.7	3.7
130°-140°	275.0	2.6
140°-150°	164.2	1.6
150°-160°	76.6	0.7
160°-170°	18.2	0.2
170°-180°	0.0	0.0
0°-30°	1506.6	14.5
0°-40°	2556.7	24.6
0°-60°	4952.3	47.6
0°-90°	7779.8	74.8
90°-120°	1704.5	16.4
90°-150°	2531.4	24.3
90°-180°	2626.0	25.2
0°-180°	10406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1807	1807	1807	1807	1807	
5°	1819	1805	1824	1824	1824	173
15°	1753	1768	1832	1865	1878	495
25°	1624	1677	1795	1858	1888	748
35°	1435	1541	1707	1812	1856	898
45°	1208	1372	1574	1712	1770	938
55°	978	1142	1396	1567	1636	859
65°	670	893	1181	1384	1462	665
75°	352	624	956	1191	1274	375
85°	90	401	763	1010	1095	99
90°	5	328	682	929	1015	7
95°	0	308	660	902	985	0
105°	0	284	602	829	910	0
115°	0	264	548	746	819	0
125°	0	228	486	658	721	0
135°	0	169	391	555	606	1
145°	0	110	274	416	474	1
155°	3	69	169	254	315	1
165°	3	37	76	105	149	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284526

CATALOG NUMBER: 8SNLED-LD5-104SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1807.3	1807.3	1807.3	1807.3	1807.3
2.5°	1823.8	1804.7	1814.6	1811.9	1802.0
5°	1819.2	1804.7	1823.8	1823.8	1823.8
7.5°	1809.3	1799.4	1826.5	1836.4	1839.0
10°	1794.8	1794.8	1831.7	1846.3	1850.9
12.5°	1775.0	1782.3	1831.7	1853.5	1865.4
15°	1753.2	1767.7	1831.7	1865.4	1877.9
17.5°	1726.2	1750.6	1826.5	1868.0	1885.2
20°	1694.5	1731.4	1819.2	1868.0	1890.5
22.5°	1660.2	1707.0	1809.3	1863.4	1890.5
25°	1623.9	1677.3	1794.8	1858.1	1887.8
27.5°	1579.7	1648.3	1777.6	1850.9	1885.2
30°	1535.5	1614.0	1757.8	1841.0	1877.9
32.5°	1486.6	1577.0	1733.4	1826.5	1868.0
35°	1435.2	1540.7	1707.0	1811.9	1856.2
37.5°	1383.7	1496.5	1680.0	1792.1	1841.0
40°	1327.6	1452.3	1648.3	1767.7	1819.2
42.5°	1286.0	1406.1	1614.0	1743.3	1797.4
45°	1208.2	1371.8	1574.4	1711.6	1770.4
47.5°	1146.8	1305.8	1535.5	1680.0	1740.7
50°	1107.9	1251.7	1489.3	1643.0	1707.0
52.5°	1014.8	1215.4	1445.1	1606.7	1674.7
55°	977.9	1142.2	1396.2	1567.1	1635.8
57.5°	877.6	1090.7	1347.4	1523.6	1594.2
60°	828.8	1019.5	1293.3	1479.4	1552.6
62.5°	752.9	958.8	1239.9	1430.6	1506.4
65°	669.7	892.8	1181.1	1383.7	1462.2
67.5°	591.9	826.8	1125.0	1334.9	1418.0
70°	516.0	758.2	1066.3	1286.0	1369.2
72.5°	427.6	689.5	1009.6	1239.9	1323.0
75°	352.4	623.6	956.1	1191.0	1274.2
77.5°	278.5	560.2	904.7	1146.8	1230.0
80°	210.5	498.8	853.2	1100.6	1185.7
82.5°	146.5	447.4	807.0	1056.4	1139.6
85°	90.4	401.2	762.8	1009.6	1095.3
87.5°	41.6	359.6	718.6	966.0	1053.8
90°	4.6	327.9	682.3	929.1	1014.8
92.5°	2.6	318.0	667.8	911.9	995.1
95°	0.0	308.1	660.5	902.0	985.2
97.5°	0.0	298.3	643.4	887.5	973.3
100°	0.0	293.6	630.8	865.7	948.9
102.5°	0.0	286.4	616.3	845.9	929.1
105°	0.0	283.7	601.8	828.8	909.9
107.5°	0.0	278.5	586.6	807.0	887.5
110°	0.0	273.8	574.7	787.2	865.7



TEST NUMBER: P284526

CATALOG NUMBER: 8SNLED-LD5-104SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	269.2	562.2	768.1	843.3
115°	0.0	263.9	547.7	745.6	818.9
117.5°	0.0	256.7	533.2	723.9	797.1
120°	0.0	246.8	518.6	704.1	772.7
122.5°	0.0	236.9	503.5	679.6	745.6
125°	0.0	227.6	486.3	657.9	721.2
127.5°	0.0	212.5	467.2	633.5	692.2
130°	0.0	198.0	442.8	609.0	665.1
132.5°	2.6	183.4	418.3	582.0	638.1
135°	0.0	168.9	391.3	554.9	606.4
137.5°	0.0	156.4	361.6	525.9	574.7
140°	0.0	141.9	332.6	491.6	543.1
142.5°	0.0	124.7	303.5	454.6	508.7
145°	0.0	110.2	273.8	415.7	474.4
147.5°	2.6	97.7	246.8	374.1	437.5
150°	2.6	87.8	220.4	332.6	395.9
152.5°	2.6	78.5	193.3	293.6	354.3
155°	2.6	68.6	168.9	254.0	315.4
157.5°	2.6	58.7	141.9	215.1	273.8
160°	2.6	51.5	117.5	180.8	234.9
162.5°	2.6	44.2	95.7	141.9	193.3
165°	2.6	37.0	75.9	104.9	149.1
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)