

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: P284487

Luminaire Tested: **8SNLED-LD5-104SL-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: P284487
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-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: 10230.0 lumens
Efficiency: N/A
Efficacy: 99.3 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

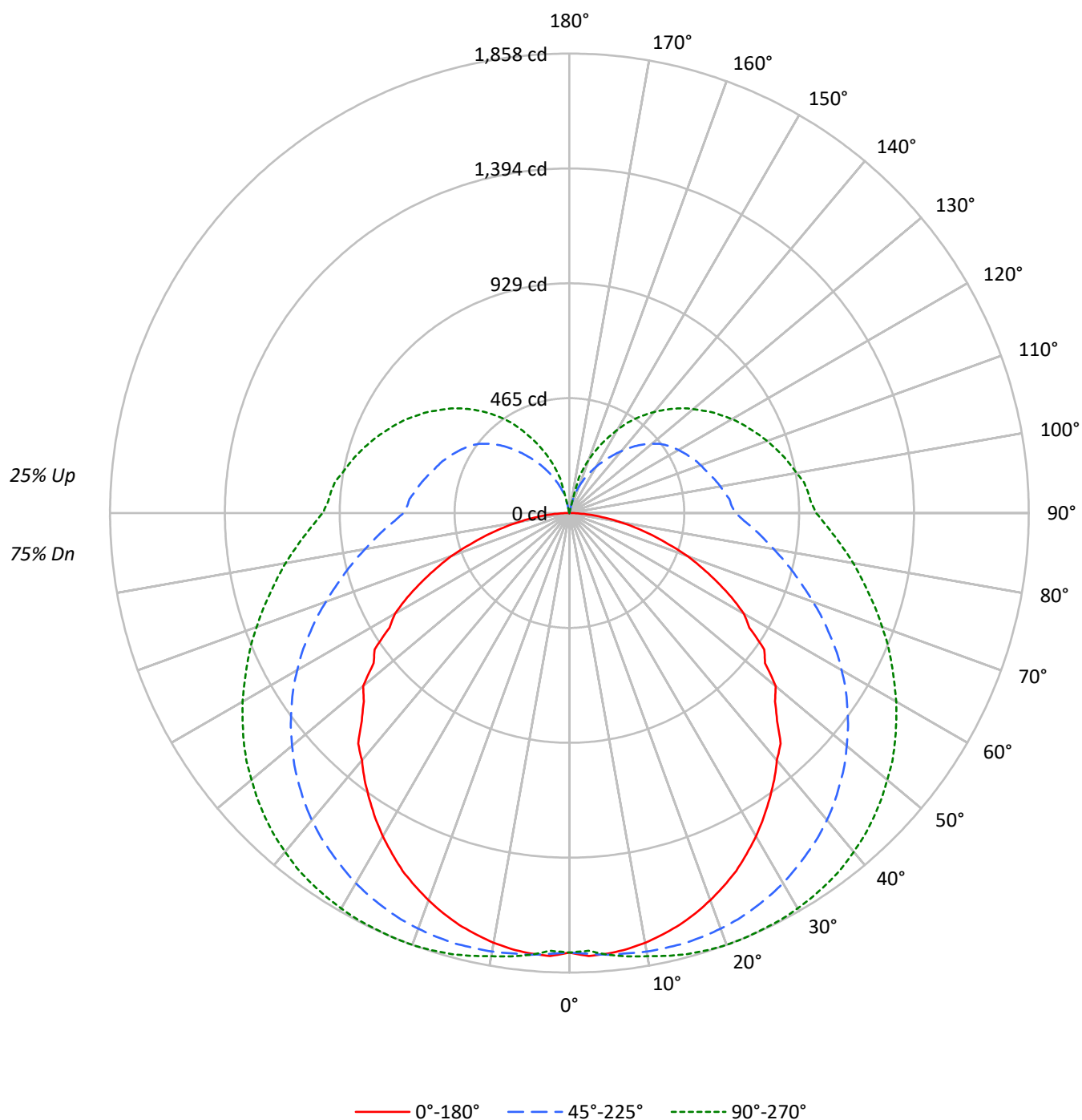
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7179	7179	7179
5°	7244	7101	7041
10°	7219	7045	7002
15°	7180	7013	7017
20°	7122	6987	7031
25°	7066	6968	7041
30°	6980	6953	7079
35°	6884	6935	7128
40°	6795	6937	7173
45°	6682	6929	7231
50°	6721	6922	7288
55°	6625	6932	7375
60°	6411	6947	7475
65°	6091	6970	7614
70°	5746	7038	7828
75°	5110	7222	8145
80°	4422	7600	8669
85°	3497	8357	9436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	1.7
10°-20°	506.1	4.9
20°-30°	804.3	7.9
30°-40°	1032.3	10.1
40°-50°	1165.7	11.4
50°-60°	1189.5	11.6
60°-70°	1102.0	10.8
70°-80°	933.0	9.1
80°-90°	744.7	7.3
90°-100°	632.4	6.2
100°-110°	563.4	5.5
110°-120°	479.8	4.7
120°-130°	381.1	3.7
130°-140°	270.4	2.6
140°-150°	161.4	1.6
150°-160°	75.3	0.7
160°-170°	17.9	0.2
170°-180°	0.0	0.0
0°-30°	1481.1	14.5
0°-40°	2513.4	24.6
0°-60°	4868.6	47.6
0°-90°	7648.3	74.8
90°-120°	1675.6	16.4
90°-150°	2488.6	24.3
90°-180°	2582.0	25.2
0°-180°	10230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1788	1774	1793	1793	1793	170
15°	1724	1738	1801	1834	1846	486
25°	1596	1649	1764	1827	1856	735
35°	1411	1515	1678	1781	1825	883
45°	1188	1349	1548	1683	1740	922
55°	961	1123	1373	1541	1608	844
65°	658	878	1161	1360	1438	654
75°	346	613	940	1171	1253	368
85°	89	394	750	992	1077	97
90°	4	322	671	913	998	7
95°	0	303	649	887	968	0
105°	0	279	592	815	894	0
115°	0	260	538	733	805	0
125°	0	224	478	647	709	0
135°	0	166	385	546	596	1
145°	0	108	269	409	466	1
155°	3	68	166	250	310	1
165°	3	36	75	103	147	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°	1776.8	1776.8	1776.8	1776.8	1776.8
2.5°	1793.0	1774.2	1783.9	1781.3	1771.6
5°	1788.4	1774.2	1793.0	1793.0	1793.0
7.5°	1778.7	1769.0	1795.6	1805.3	1807.9
10°	1764.4	1764.4	1800.8	1815.0	1819.6
12.5°	1745.0	1752.1	1800.8	1822.2	1833.8
15°	1723.6	1737.8	1800.8	1833.8	1846.2
17.5°	1697.0	1721.0	1795.6	1836.4	1853.3
20°	1665.8	1702.2	1788.4	1836.4	1858.5
22.5°	1632.1	1678.2	1778.7	1831.9	1858.5
25°	1596.4	1649.0	1764.4	1826.7	1855.9
27.5°	1553.0	1620.4	1747.6	1819.6	1853.3
30°	1509.5	1586.7	1728.1	1809.8	1846.2
32.5°	1461.5	1550.4	1704.1	1795.6	1836.4
35°	1410.9	1514.7	1678.2	1781.3	1824.8
37.5°	1360.3	1471.2	1651.6	1761.8	1809.8
40°	1305.2	1427.8	1620.4	1737.8	1788.4
42.5°	1264.3	1382.4	1586.7	1713.8	1767.0
45°	1187.7	1348.6	1547.8	1682.7	1740.4
47.5°	1127.4	1283.8	1509.5	1651.6	1711.2
50°	1089.1	1230.6	1464.1	1615.2	1678.2
52.5°	997.7	1194.9	1420.6	1579.6	1646.4
55°	961.4	1122.9	1372.6	1540.6	1608.1
57.5°	862.8	1072.3	1324.6	1497.8	1567.2
60°	814.8	1002.2	1271.4	1454.4	1526.4
62.5°	740.2	942.5	1218.9	1406.4	1481.0
65°	658.4	877.7	1161.2	1360.3	1437.5
67.5°	581.9	812.8	1106.0	1312.3	1394.0
70°	507.3	745.3	1048.3	1264.3	1346.0
72.5°	420.4	677.9	992.5	1218.9	1300.6
75°	346.4	613.0	939.9	1170.9	1252.6
77.5°	273.7	550.7	889.4	1127.4	1209.2
80°	206.9	490.4	838.8	1082.0	1165.7
82.5°	144.0	439.8	793.3	1038.6	1120.3
85°	88.9	394.4	749.9	992.5	1076.8
87.5°	40.9	353.5	706.4	949.7	1036.0
90°	4.5	322.4	670.7	913.4	997.7
92.5°	2.6	312.7	656.5	896.5	978.2
95°	0.0	302.9	649.3	886.8	968.5
97.5°	0.0	293.2	632.5	872.5	956.8
100°	0.0	288.7	620.1	851.1	932.8
102.5°	0.0	281.5	605.9	831.6	913.4
105°	0.0	278.9	591.6	814.8	894.5
107.5°	0.0	273.7	576.7	793.3	872.5
110°	0.0	269.2	565.0	773.9	851.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	264.7	552.7	755.1	829.0
115°	0.0	259.5	538.4	733.0	805.0
117.5°	0.0	252.3	524.1	711.6	783.6
120°	0.0	242.6	509.9	692.2	759.6
122.5°	0.0	232.9	494.9	668.1	733.0
125°	0.0	223.8	478.1	646.7	709.0
127.5°	0.0	208.9	459.3	622.7	680.5
130°	0.0	194.6	435.3	598.7	653.9
132.5°	2.6	180.3	411.3	572.1	627.3
135°	0.0	166.1	384.7	545.5	596.1
137.5°	0.0	153.7	355.5	517.0	565.0
140°	0.0	139.5	326.9	483.3	533.9
142.5°	0.0	122.6	298.4	446.9	500.1
145°	0.0	108.3	269.2	408.7	466.4
147.5°	2.6	96.0	242.6	367.8	430.1
150°	2.6	86.3	216.7	326.9	389.2
152.5°	2.6	77.2	190.1	288.7	348.3
155°	2.6	67.5	166.1	249.7	310.1
157.5°	2.6	57.7	139.5	211.5	269.2
160°	2.6	50.6	115.5	177.7	230.9
162.5°	2.6	43.5	94.1	139.5	190.1
165°	2.6	36.3	74.6	103.1	146.6
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)