

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: P284528

Luminaire Tested: **8SNLED-LD5-130HL-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: P284528
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-LD5-130HL-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: 10402.1 lumens
Efficiency: N/A
Efficacy: 121.0 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

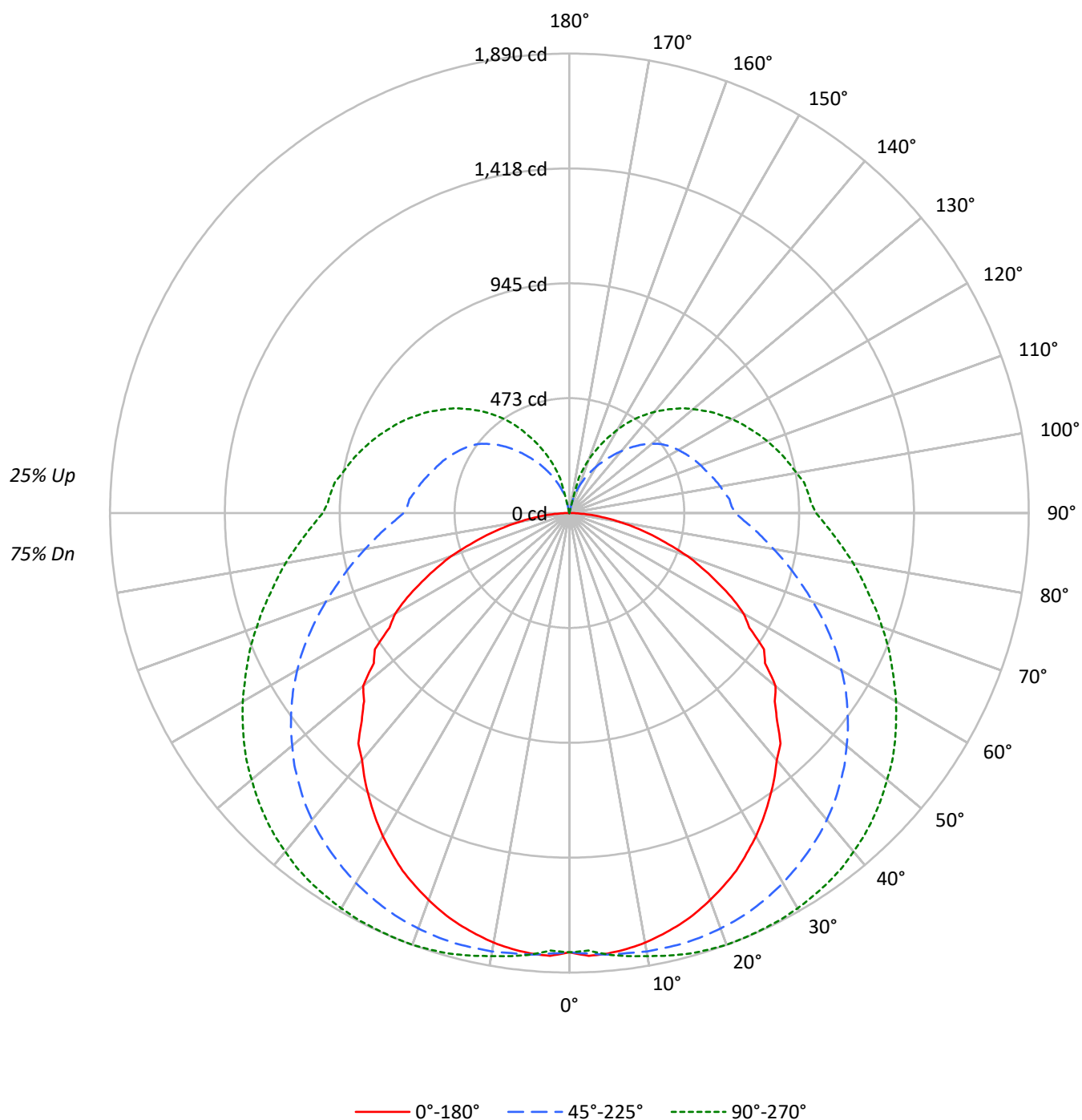
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7300	7300	7300
5°	7366	7220	7159
10°	7341	7163	7120
15°	7300	7131	7135
20°	7242	7104	7149
25°	7185	7085	7160
30°	7097	7070	7198
35°	7000	7052	7247
40°	6909	7054	7294
45°	6795	7045	7352
50°	6834	7039	7411
55°	6736	7049	7498
60°	6519	7064	7600
65°	6193	7087	7742
70°	5843	7156	7960
75°	5195	7344	8282
80°	4497	7728	8815
85°	3556	8497	9594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	1.7
10°-20°	514.6	4.9
20°-30°	817.8	7.9
30°-40°	1049.7	10.1
40°-50°	1185.3	11.4
50°-60°	1209.5	11.6
60°-70°	1120.5	10.8
70°-80°	948.7	9.1
80°-90°	757.2	7.3
90°-100°	643.0	6.2
100°-110°	572.9	5.5
110°-120°	487.9	4.7
120°-130°	387.5	3.7
130°-140°	274.9	2.6
140°-150°	164.2	1.6
150°-160°	76.5	0.7
160°-170°	18.2	0.2
170°-180°	0.0	0.0
0°-30°	1506.0	14.5
0°-40°	2555.7	24.6
0°-60°	4950.5	47.6
0°-90°	7776.9	74.8
90°-120°	1703.8	16.4
90°-150°	2530.5	24.3
90°-180°	2625.0	25.2
0°-180°	10402.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1807	1807	1807	1807	1807	
5°	1818	1804	1823	1823	1823	173
15°	1752	1767	1831	1865	1877	494
25°	1623	1677	1794	1857	1887	747
35°	1435	1540	1706	1811	1855	898
45°	1208	1371	1574	1711	1770	938
55°	978	1142	1396	1566	1635	858
65°	670	892	1181	1383	1462	665
75°	352	623	956	1191	1274	375
85°	90	401	762	1009	1095	99
90°	5	328	682	929	1014	7
95°	0	308	660	902	985	0
105°	0	284	602	828	910	0
115°	0	264	548	745	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1806.6	1806.6	1806.6	1806.6	1806.6
2.5°	1823.1	1804.0	1813.9	1811.2	1801.4
5°	1818.5	1804.0	1823.1	1823.1	1823.1
7.5°	1808.6	1798.7	1825.8	1835.7	1838.3
10°	1794.1	1794.1	1831.0	1845.5	1850.2
12.5°	1774.3	1781.6	1831.0	1852.8	1864.7
15°	1752.5	1767.1	1831.0	1864.7	1877.2
17.5°	1725.5	1749.9	1825.8	1867.3	1884.5
20°	1693.8	1730.8	1818.5	1867.3	1889.7
22.5°	1659.5	1706.4	1808.6	1862.7	1889.7
25°	1623.3	1676.7	1794.1	1857.4	1887.1
27.5°	1579.1	1647.7	1776.9	1850.2	1884.5
30°	1534.9	1613.4	1757.2	1840.3	1877.2
32.5°	1486.1	1576.4	1732.8	1825.8	1867.3
35°	1434.6	1540.2	1706.4	1811.2	1855.4
37.5°	1383.2	1496.0	1679.3	1791.5	1840.3
40°	1327.1	1451.8	1647.7	1767.1	1818.5
42.5°	1285.6	1405.6	1613.4	1742.7	1796.7
45°	1207.7	1371.3	1573.8	1711.0	1769.7
47.5°	1146.4	1305.3	1534.9	1679.3	1740.0
50°	1107.5	1251.3	1488.7	1642.4	1706.4
52.5°	1014.5	1215.0	1444.5	1606.1	1674.1
55°	977.5	1141.8	1395.7	1566.5	1635.1
57.5°	877.3	1090.3	1346.9	1523.0	1593.6
60°	828.5	1019.1	1292.8	1478.8	1552.0
62.5°	752.6	958.4	1239.4	1430.0	1505.9
65°	669.5	892.4	1180.7	1383.2	1461.7
67.5°	591.7	826.5	1124.6	1334.4	1417.5
70°	515.8	757.9	1065.9	1285.6	1368.7
72.5°	427.4	689.3	1009.2	1239.4	1322.5
75°	352.2	623.3	955.8	1190.6	1273.7
77.5°	278.3	560.0	904.3	1146.4	1229.5
80°	210.4	498.7	852.9	1100.2	1185.3
82.5°	146.4	447.2	806.7	1056.0	1139.1
85°	90.4	401.0	762.5	1009.2	1094.9
87.5°	41.6	359.5	718.3	965.6	1053.4
90°	4.6	327.8	682.0	928.7	1014.5
92.5°	2.6	317.9	667.5	911.6	994.7
95°	0.0	308.0	660.3	901.7	984.8
97.5°	0.0	298.1	643.1	887.2	972.9
100°	0.0	293.5	630.6	865.4	948.5
102.5°	0.0	286.3	616.1	845.6	928.7
105°	0.0	283.6	601.6	828.5	909.6
107.5°	0.0	278.3	586.4	806.7	887.2
110°	0.0	273.7	574.5	786.9	865.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	269.1	562.0	767.8	843.0
115°	0.0	263.8	547.5	745.3	818.6
117.5°	0.0	256.6	533.0	723.6	796.8
120°	0.0	246.7	518.4	703.8	772.4
122.5°	0.0	236.8	503.3	679.4	745.3
125°	0.0	227.6	486.1	657.6	720.9
127.5°	0.0	212.4	467.0	633.2	691.9
130°	0.0	197.9	442.6	608.8	664.9
132.5°	2.6	183.4	418.2	581.8	637.8
135°	0.0	168.9	391.1	554.7	606.2
137.5°	0.0	156.3	361.5	525.7	574.5
140°	0.0	141.8	332.4	491.4	542.8
142.5°	0.0	124.7	303.4	454.5	508.5
145°	0.0	110.2	273.7	415.5	474.2
147.5°	2.6	97.6	246.7	374.0	437.3
150°	2.6	87.7	220.3	332.4	395.8
152.5°	2.6	78.5	193.3	293.5	354.2
155°	2.6	68.6	168.9	253.9	315.3
157.5°	2.6	58.7	141.8	215.0	273.7
160°	2.6	51.4	117.4	180.7	234.8
162.5°	2.6	44.2	95.6	141.8	193.3
165°	2.6	36.9	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)