

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: P284489

Luminaire Tested: **8SNLED-LD5-130HL-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: P284489
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-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: 10226.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

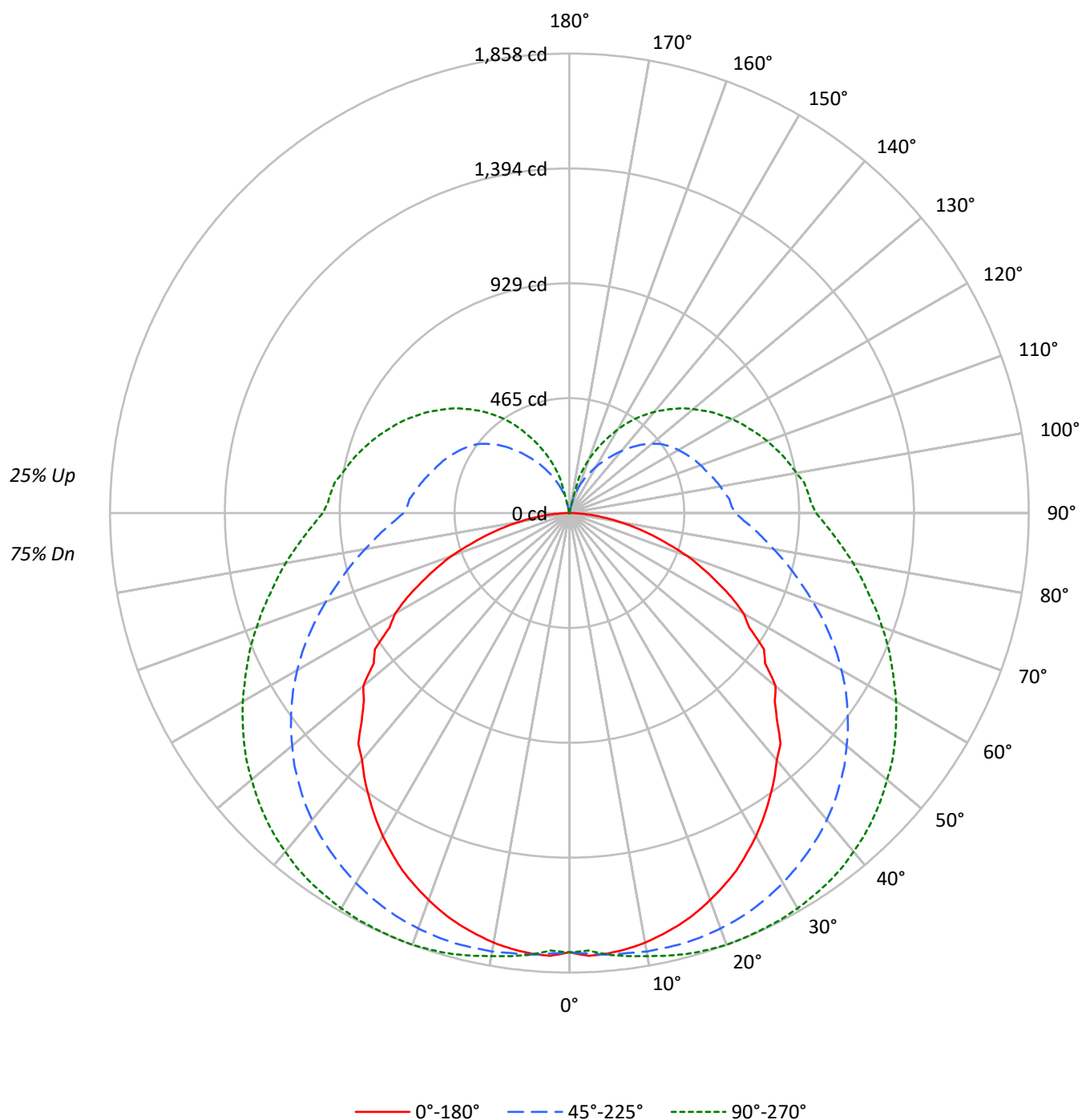
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7176	7176	7176
5°	7241	7098	7038
10°	7216	7042	6999
15°	7177	7011	7014
20°	7120	6984	7028
25°	7063	6965	7039
30°	6977	6950	7076
35°	6881	6932	7124
40°	6793	6935	7171
45°	6680	6926	7228
50°	6718	6919	7285
55°	6622	6930	7372
60°	6408	6945	7472
65°	6089	6967	7611
70°	5744	7035	7825
75°	5108	7219	8141
80°	4422	7597	8665
85°	3493	8353	9432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	1.7
10°-20°	505.9	4.9
20°-30°	804.0	7.9
30°-40°	1031.9	10.1
40°-50°	1165.3	11.4
50°-60°	1189.0	11.6
60°-70°	1101.6	10.8
70°-80°	932.6	9.1
80°-90°	744.4	7.3
90°-100°	632.1	6.2
100°-110°	563.2	5.5
110°-120°	479.7	4.7
120°-130°	381.0	3.7
130°-140°	270.3	2.6
140°-150°	161.4	1.6
150°-160°	75.2	0.7
160°-170°	17.9	0.2
170°-180°	0.0	0.0
0°-30°	1480.6	14.5
0°-40°	2512.5	24.6
0°-60°	4866.7	47.6
0°-90°	7645.3	74.8
90°-120°	1675.0	16.4
90°-150°	2487.6	24.3
90°-180°	2581.0	25.2
0°-180°	10226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1788	1774	1792	1792	1792	170
15°	1723	1737	1800	1833	1845	486
25°	1596	1648	1764	1826	1855	735
35°	1410	1514	1678	1781	1824	883
45°	1187	1348	1547	1682	1740	922
55°	961	1122	1372	1540	1608	844
65°	658	877	1161	1360	1437	653
75°	346	613	940	1170	1252	368
85°	89	394	750	992	1076	97
90°	4	322	670	913	997	7
95°	0	303	649	886	968	0
105°	0	279	591	814	894	0
115°	0	259	538	733	805	0
125°	0	224	478	646	709	0
135°	0	166	384	545	596	1
145°	0	108	269	408	466	1
155°	3	67	166	250	310	1
165°	3	36	75	103	146	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°	1776.1	1776.1	1776.1	1776.1	1776.1
2.5°	1792.3	1773.5	1783.2	1780.6	1770.9
5°	1787.7	1773.5	1792.3	1792.3	1792.3
7.5°	1778.0	1768.3	1794.9	1804.6	1807.2
10°	1763.7	1763.7	1800.1	1814.3	1818.9
12.5°	1744.3	1751.4	1800.1	1821.5	1833.1
15°	1722.9	1737.2	1800.1	1833.1	1845.4
17.5°	1696.3	1720.3	1794.9	1835.7	1852.6
20°	1665.2	1701.5	1787.7	1835.7	1857.8
22.5°	1631.5	1677.5	1778.0	1831.2	1857.8
25°	1595.8	1648.3	1763.7	1826.0	1855.2
27.5°	1552.4	1619.8	1746.9	1818.9	1852.6
30°	1508.9	1586.1	1727.4	1809.1	1845.4
32.5°	1460.9	1549.8	1703.4	1794.9	1835.7
35°	1410.3	1514.1	1677.5	1780.6	1824.0
37.5°	1359.8	1470.7	1650.9	1761.1	1809.1
40°	1304.7	1427.2	1619.8	1737.2	1787.7
42.5°	1263.8	1381.8	1586.1	1713.2	1766.3
45°	1187.3	1348.1	1547.2	1682.0	1739.8
47.5°	1127.0	1283.3	1508.9	1650.9	1710.6
50°	1088.7	1230.1	1463.5	1614.6	1677.5
52.5°	997.3	1194.4	1420.1	1578.9	1645.7
55°	961.0	1122.4	1372.1	1540.0	1607.5
57.5°	862.4	1071.9	1324.1	1497.2	1566.6
60°	814.4	1001.8	1270.9	1453.8	1525.8
62.5°	739.9	942.2	1218.4	1405.8	1480.4
65°	658.2	877.3	1160.7	1359.8	1436.9
67.5°	581.6	812.5	1105.6	1311.8	1393.5
70°	507.1	745.1	1047.9	1263.8	1345.5
72.5°	420.2	677.6	992.1	1218.4	1300.1
75°	346.3	612.8	939.6	1170.4	1252.1
77.5°	273.6	550.5	889.0	1127.0	1208.7
80°	206.9	490.2	838.4	1081.6	1165.2
82.5°	144.0	439.6	793.0	1038.1	1119.8
85°	88.8	394.2	749.6	992.1	1076.4
87.5°	40.9	353.4	706.1	949.3	1035.6
90°	4.5	322.3	670.5	913.0	997.3
92.5°	2.6	312.5	656.2	896.1	977.8
95°	0.0	302.8	649.1	886.4	968.1
97.5°	0.0	293.1	632.2	872.1	956.4
100°	0.0	288.6	619.9	850.7	932.4
102.5°	0.0	281.4	605.6	831.3	913.0
105°	0.0	278.8	591.4	814.4	894.2
107.5°	0.0	273.6	576.5	793.0	872.1
110°	0.0	269.1	564.8	773.6	850.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	264.6	552.5	754.8	828.7
115°	0.0	259.4	538.2	732.7	804.7
117.5°	0.0	252.2	523.9	711.3	783.3
120°	0.0	242.5	509.7	691.9	759.3
122.5°	0.0	232.8	494.8	667.9	732.7
125°	0.0	223.7	477.9	646.5	708.7
127.5°	0.0	208.8	459.1	622.5	680.2
130°	0.0	194.5	435.1	598.5	653.6
132.5°	2.6	180.3	411.1	571.9	627.0
135°	0.0	166.0	384.5	545.3	595.9
137.5°	0.0	153.7	355.3	516.8	564.8
140°	0.0	139.4	326.8	483.1	533.7
142.5°	0.0	122.6	298.3	446.8	499.9
145°	0.0	108.3	269.1	408.5	466.2
147.5°	2.6	96.0	242.5	367.7	429.9
150°	2.6	86.2	216.6	326.8	389.1
152.5°	2.6	77.2	190.0	288.6	348.2
155°	2.6	67.4	166.0	249.6	310.0
157.5°	2.6	57.7	139.4	211.4	269.1
160°	2.6	50.6	115.4	177.7	230.8
162.5°	2.6	43.4	94.0	139.4	190.0
165°	2.6	36.3	74.6	103.1	146.5
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)