

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: P284606

Luminaire Tested: **8SNLED-LD5-130HL-SLW-UNV-L850-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: P284606
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-L850-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: 10578.0 lumens
Efficiency: N/A
Efficacy: 123.0 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

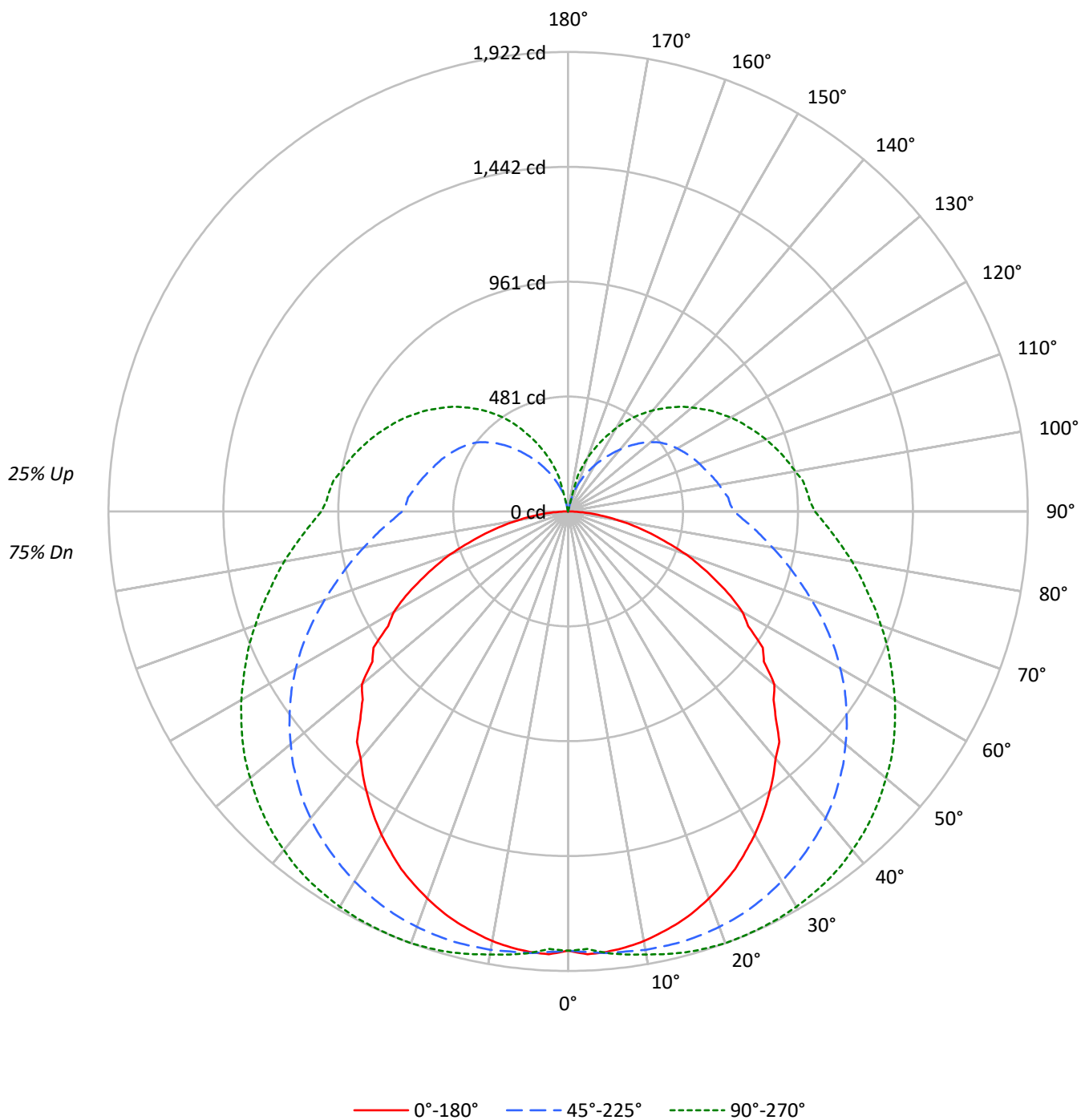
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97		88	88	88		79
1	100	94	89	84	95	89	84	80	80	76	73		72	69	66		64
2	90	80	72	66	85	76	69	63	68	63	58		61	57	53		55
3	81	69	60	53	76	66	58	51	59	53	47		53	48	43		47
4	74	61	51	44	69	58	49	43	52	45	39		47	41	36		42
5	67	54	44	37	63	51	43	36	46	39	33		42	35	31		37
6	62	48	39	32	58	46	37	31	41	34	29		37	31	27		34
7	57	43	34	28	54	41	33	27	37	30	25		34	28	23		30
8	53	39	31	25	50	37	29	24	34	27	22		31	25	21		28
9	49	36	27	22	47	34	26	21	31	24	20		28	23	18		26
10	46	33	25	20	44	31	24	19	29	22	18		26	21	16		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7423	7423	7423
5°	7490	7342	7281
10°	7465	7284	7240
15°	7424	7252	7256
20°	7365	7225	7270
25°	7306	7205	7281
30°	7217	7189	7320
35°	7118	7171	7370
40°	7026	7173	7418
45°	6910	7164	7477
50°	6950	7158	7536
55°	6850	7168	7625
60°	6629	7184	7729
65°	6298	7207	7873
70°	5941	7277	8094
75°	5284	7467	8422
80°	4574	7859	8963
85°	3615	8641	9757



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	1.7
10°-20°	523.3	4.9
20°-30°	831.7	7.9
30°-40°	1067.4	10.1
40°-50°	1205.4	11.4
50°-60°	1229.9	11.6
60°-70°	1139.5	10.8
70°-80°	964.7	9.1
80°-90°	770.0	7.3
90°-100°	653.9	6.2
100°-110°	582.6	5.5
110°-120°	496.2	4.7
120°-130°	394.1	3.7
130°-140°	279.6	2.6
140°-150°	166.9	1.6
150°-160°	77.8	0.7
160°-170°	18.5	0.2
170°-180°	0.0	0.0
0°-30°	1531.5	14.5
0°-40°	2598.9	24.6
0°-60°	5034.2	47.6
0°-90°	7908.4	74.8
90°-120°	1732.6	16.4
90°-150°	2573.3	24.3
90°-180°	2670.0	25.2
0°-180°	10578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1849	1834	1854	1854	1854	176
15°	1782	1797	1862	1896	1909	503
25°	1651	1705	1824	1889	1919	760
35°	1459	1566	1735	1842	1887	913
45°	1228	1394	1600	1740	1800	954
55°	994	1161	1419	1593	1663	873
65°	681	908	1201	1407	1486	676
75°	358	634	972	1211	1295	381
85°	92	408	775	1026	1114	100
90°	5	333	694	944	1032	7
95°	0	313	671	917	1001	0
105°	0	288	612	842	925	0
115°	0	268	557	758	832	0
125°	0	231	494	669	733	0
135°	0	172	398	564	616	1
145°	0	112	278	423	482	1
155°	3	70	172	258	321	1
165°	3	38	77	107	152	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°	1837.2	1837.2	1837.2	1837.2	1837.2
2.5°	1854.0	1834.5	1844.6	1841.9	1831.8
5°	1849.3	1834.5	1854.0	1854.0	1854.0
7.5°	1839.2	1829.1	1856.7	1866.7	1869.4
10°	1824.5	1824.5	1862.0	1876.8	1881.5
12.5°	1804.3	1811.7	1862.0	1884.2	1896.2
15°	1782.2	1797.0	1862.0	1896.2	1909.0
17.5°	1754.7	1779.5	1856.7	1898.9	1916.3
20°	1722.5	1760.1	1849.3	1898.9	1921.7
22.5°	1687.6	1735.2	1839.2	1894.2	1921.7
25°	1650.7	1705.1	1824.5	1888.8	1919.0
27.5°	1605.8	1675.5	1807.0	1881.5	1916.3
30°	1560.8	1640.7	1786.9	1871.4	1909.0
32.5°	1511.2	1603.1	1762.1	1856.7	1898.9
35°	1458.9	1566.2	1735.2	1841.9	1886.8
37.5°	1406.6	1521.3	1707.7	1821.8	1871.4
40°	1349.6	1476.3	1675.5	1797.0	1849.3
42.5°	1307.3	1429.4	1640.7	1772.1	1827.1
45°	1228.2	1394.5	1600.4	1739.9	1799.6
47.5°	1165.8	1327.4	1560.8	1707.7	1769.5
50°	1126.2	1272.4	1513.9	1670.2	1735.2
52.5°	1031.6	1235.5	1469.0	1633.3	1702.4
55°	994.1	1161.1	1419.3	1593.0	1662.8
57.5°	892.1	1108.8	1369.7	1548.8	1620.5
60°	842.5	1036.3	1314.7	1503.8	1578.3
62.5°	765.3	974.6	1260.3	1454.2	1531.3
65°	680.8	907.5	1200.7	1406.6	1486.4
67.5°	601.7	840.5	1143.6	1356.9	1441.5
70°	524.5	770.7	1083.9	1307.3	1391.8
72.5°	434.6	700.9	1026.3	1260.3	1344.9
75°	358.2	633.9	971.9	1210.7	1295.2
77.5°	283.1	569.5	919.6	1165.8	1250.3
80°	214.0	507.1	867.3	1118.8	1205.3
82.5°	148.9	454.8	820.3	1073.9	1158.4
85°	91.9	407.8	775.4	1026.3	1113.5
87.5°	42.3	365.6	730.5	982.0	1071.2
90°	4.7	333.4	693.6	944.4	1031.6
92.5°	2.7	323.3	678.8	927.0	1011.5
95°	0.0	313.2	671.4	916.9	1001.4
97.5°	0.0	303.2	654.0	902.2	989.4
100°	0.0	298.5	641.2	880.0	964.5
102.5°	0.0	291.1	626.5	859.9	944.4
105°	0.0	288.4	611.7	842.5	925.0
107.5°	0.0	283.1	596.3	820.3	902.2
110°	0.0	278.4	584.2	800.2	880.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	273.7	571.5	780.8	857.2
115°	0.0	268.3	556.7	758.0	832.4
117.5°	0.0	260.9	542.0	735.8	810.3
120°	0.0	250.9	527.2	715.7	785.5
122.5°	0.0	240.8	511.8	690.9	758.0
125°	0.0	231.4	494.3	668.7	733.1
127.5°	0.0	216.0	474.9	643.9	703.6
130°	0.0	201.2	450.1	619.1	676.1
132.5°	2.7	186.5	425.3	591.6	648.6
135°	0.0	171.7	397.8	564.1	616.4
137.5°	0.0	159.0	367.6	534.6	584.2
140°	0.0	144.2	338.1	499.7	552.0
142.5°	0.0	126.8	308.5	462.2	517.2
145°	0.0	112.0	278.4	422.6	482.3
147.5°	2.7	99.3	250.9	380.3	444.7
150°	2.7	89.2	224.0	338.1	402.5
152.5°	2.7	79.8	196.5	298.5	360.2
155°	2.7	69.8	171.7	258.2	320.6
157.5°	2.7	59.7	144.2	218.7	278.4
160°	2.7	52.3	119.4	183.8	238.8
162.5°	2.7	44.9	97.3	144.2	196.5
165°	2.7	37.6	77.1	106.7	151.6
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)