

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: P284646

Luminaire Tested: **8SNLED-LD5-170HL-SLW-UNV-L930-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: P284646
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-LD5-170HL-SLW-UNV-L930-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: 10860.0 lumens
Efficiency: N/A
Efficacy: 87.6 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

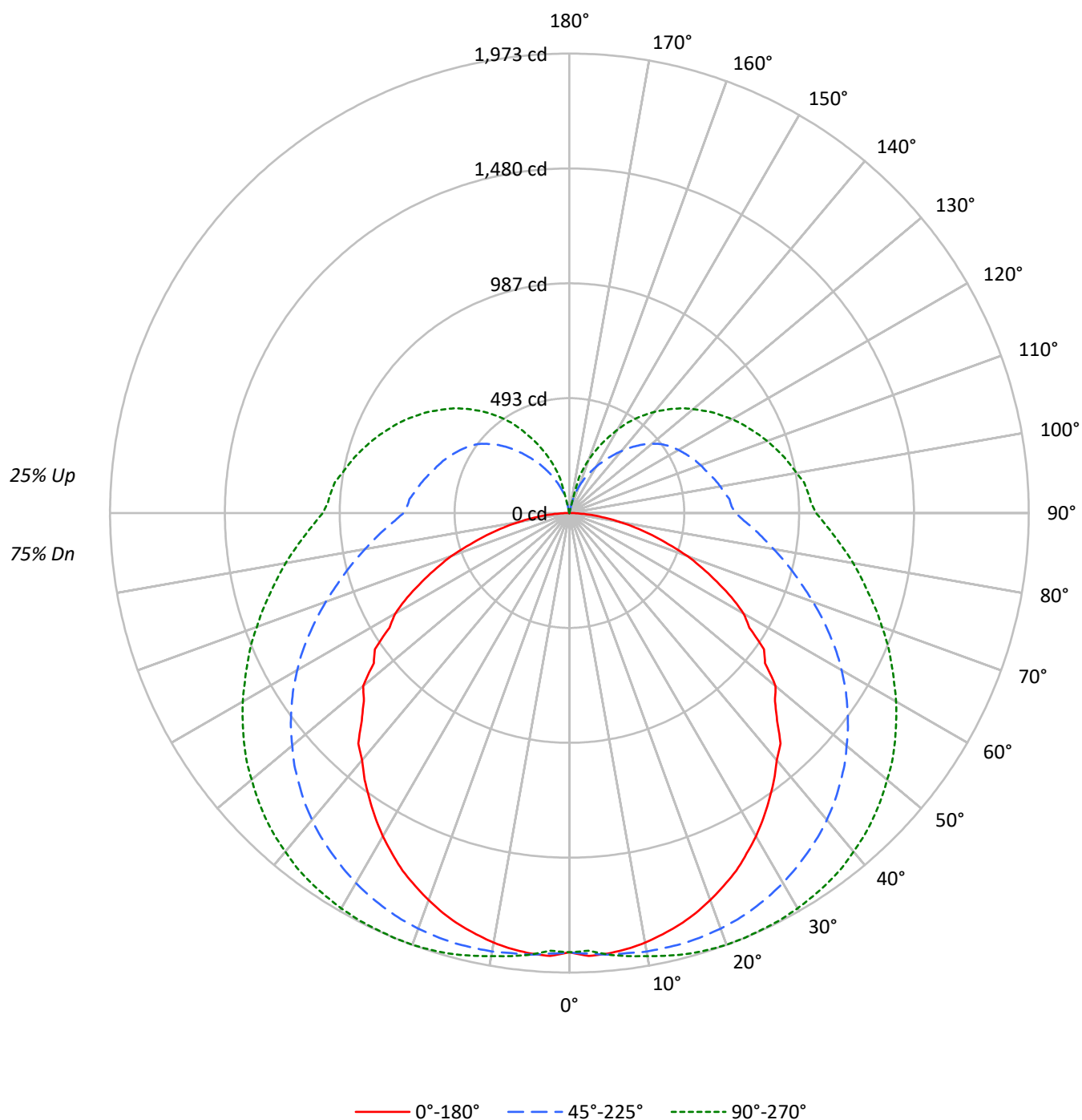
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7621	7621	7621
5°	7690	7538	7475
10°	7664	7479	7433
15°	7622	7445	7449
20°	7561	7417	7463
25°	7501	7397	7475
30°	7410	7381	7515
35°	7308	7362	7566
40°	7213	7365	7615
45°	7094	7355	7676
50°	7135	7349	7737
55°	7033	7359	7829
60°	6805	7375	7935
65°	6466	7399	8083
70°	6100	7471	8310
75°	5424	7666	8647
80°	4696	8068	9203
85°	3709	8871	10017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	1.7
10°-20°	537.2	4.9
20°-30°	853.9	7.9
30°-40°	1095.9	10.1
40°-50°	1237.5	11.4
50°-60°	1262.7	11.6
60°-70°	1169.8	10.8
70°-80°	990.4	9.1
80°-90°	790.6	7.3
90°-100°	671.3	6.2
100°-110°	598.1	5.5
110°-120°	509.4	4.7
120°-130°	404.6	3.7
130°-140°	287.0	2.6
140°-150°	171.4	1.6
150°-160°	79.9	0.7
160°-170°	19.0	0.2
170°-180°	0.0	0.0
0°-30°	1572.4	14.5
0°-40°	2668.2	24.6
0°-60°	5168.4	47.6
0°-90°	8119.2	74.8
90°-120°	1778.8	16.4
90°-150°	2641.9	24.3
90°-180°	2741.0	25.2
0°-180°	10860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1899	1883	1903	1903	1903	180
15°	1830	1845	1912	1947	1960	516
25°	1695	1750	1873	1939	1970	780
35°	1498	1608	1782	1891	1937	938
45°	1261	1432	1643	1786	1848	979
55°	1021	1192	1457	1636	1707	896
65°	699	932	1233	1444	1526	694
75°	368	651	998	1243	1330	391
85°	94	419	796	1054	1143	103
90°	5	342	712	970	1059	8
95°	0	322	689	941	1028	0
105°	0	296	628	865	950	0
115°	0	276	572	778	855	0
125°	0	238	508	687	753	0
135°	0	176	408	579	633	1
145°	0	115	286	434	495	1
155°	3	72	176	265	329	1
165°	3	39	79	110	156	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°	1886.2	1886.2	1886.2	1886.2	1886.2
2.5°	1903.4	1883.4	1893.8	1891.0	1880.7
5°	1898.6	1883.4	1903.4	1903.4	1903.4
7.5°	1888.2	1877.9	1906.1	1916.5	1919.2
10°	1873.1	1873.1	1911.7	1926.8	1931.6
12.5°	1852.4	1860.0	1911.7	1934.4	1946.8
15°	1829.7	1844.9	1911.7	1946.8	1959.9
17.5°	1801.5	1827.0	1906.1	1949.5	1967.4
20°	1768.4	1807.0	1898.6	1949.5	1972.9
22.5°	1732.6	1781.5	1888.2	1944.7	1972.9
25°	1694.7	1750.5	1873.1	1939.2	1970.2
27.5°	1648.6	1720.2	1855.2	1931.6	1967.4
30°	1602.5	1684.4	1834.5	1921.3	1959.9
32.5°	1551.5	1645.8	1809.0	1906.1	1949.5
35°	1497.8	1608.0	1781.5	1891.0	1937.1
37.5°	1444.1	1561.8	1753.3	1870.3	1921.3
40°	1385.5	1515.7	1720.2	1844.9	1898.6
42.5°	1342.2	1467.5	1684.4	1819.4	1875.8
45°	1260.9	1431.7	1643.1	1786.3	1847.6
47.5°	1196.9	1362.8	1602.5	1753.3	1816.6
50°	1156.2	1306.3	1554.3	1714.7	1781.5
52.5°	1059.1	1268.5	1508.1	1676.8	1747.8
55°	1020.6	1192.0	1457.2	1635.5	1707.1
57.5°	915.9	1138.3	1406.2	1590.1	1663.7
60°	864.9	1063.9	1349.7	1543.9	1620.4
62.5°	785.7	1000.6	1293.9	1493.0	1572.2
65°	699.0	931.7	1232.7	1444.1	1526.0
67.5°	617.7	862.9	1174.1	1393.1	1479.9
70°	538.5	791.2	1112.8	1342.2	1428.9
72.5°	446.2	719.6	1053.6	1293.9	1380.7
75°	367.7	650.8	997.8	1243.0	1329.8
77.5°	290.6	584.7	944.1	1196.9	1283.6
80°	219.7	520.6	890.4	1148.6	1237.5
82.5°	152.9	466.9	842.2	1102.5	1189.3
85°	94.3	418.7	796.1	1053.6	1143.1
87.5°	43.4	375.3	749.9	1008.2	1099.8
90°	4.8	342.3	712.1	969.6	1059.1
92.5°	2.8	331.9	696.9	951.7	1038.5
95°	0.0	321.6	689.3	941.4	1028.1
97.5°	0.0	311.3	671.4	926.2	1015.7
100°	0.0	306.4	658.3	903.5	990.3
102.5°	0.0	298.9	643.2	882.8	969.6
105°	0.0	296.1	628.0	864.9	949.6
107.5°	0.0	290.6	612.2	842.2	926.2
110°	0.0	285.8	599.8	821.5	903.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	281.0	586.7	801.6	880.1
115°	0.0	275.5	571.6	778.2	854.6
117.5°	0.0	267.9	556.4	755.4	831.9
120°	0.0	257.6	541.3	734.8	806.4
122.5°	0.0	247.2	525.4	709.3	778.2
125°	0.0	237.6	507.5	686.6	752.7
127.5°	0.0	221.7	487.6	661.1	722.4
130°	0.0	206.6	462.1	635.6	694.1
132.5°	2.8	191.4	436.6	607.4	665.9
135°	0.0	176.3	408.4	579.1	632.9
137.5°	0.0	163.2	377.4	548.8	599.8
140°	0.0	148.1	347.1	513.0	566.7
142.5°	0.0	130.2	316.8	474.5	530.9
145°	0.0	115.0	285.8	433.8	495.1
147.5°	2.8	101.9	257.6	390.5	456.6
150°	2.8	91.6	230.0	347.1	413.2
152.5°	2.8	81.9	201.8	306.4	369.8
155°	2.8	71.6	176.3	265.1	329.2
157.5°	2.8	61.3	148.1	224.5	285.8
160°	2.8	53.7	122.6	188.7	245.2
162.5°	2.8	46.1	99.9	148.1	201.8
165°	2.8	38.6	79.2	109.5	155.6
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)