

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: P#

Luminaire Tested: **8SNLED-LD5-170HL-SLW-UNV-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27403)  
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: -

**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

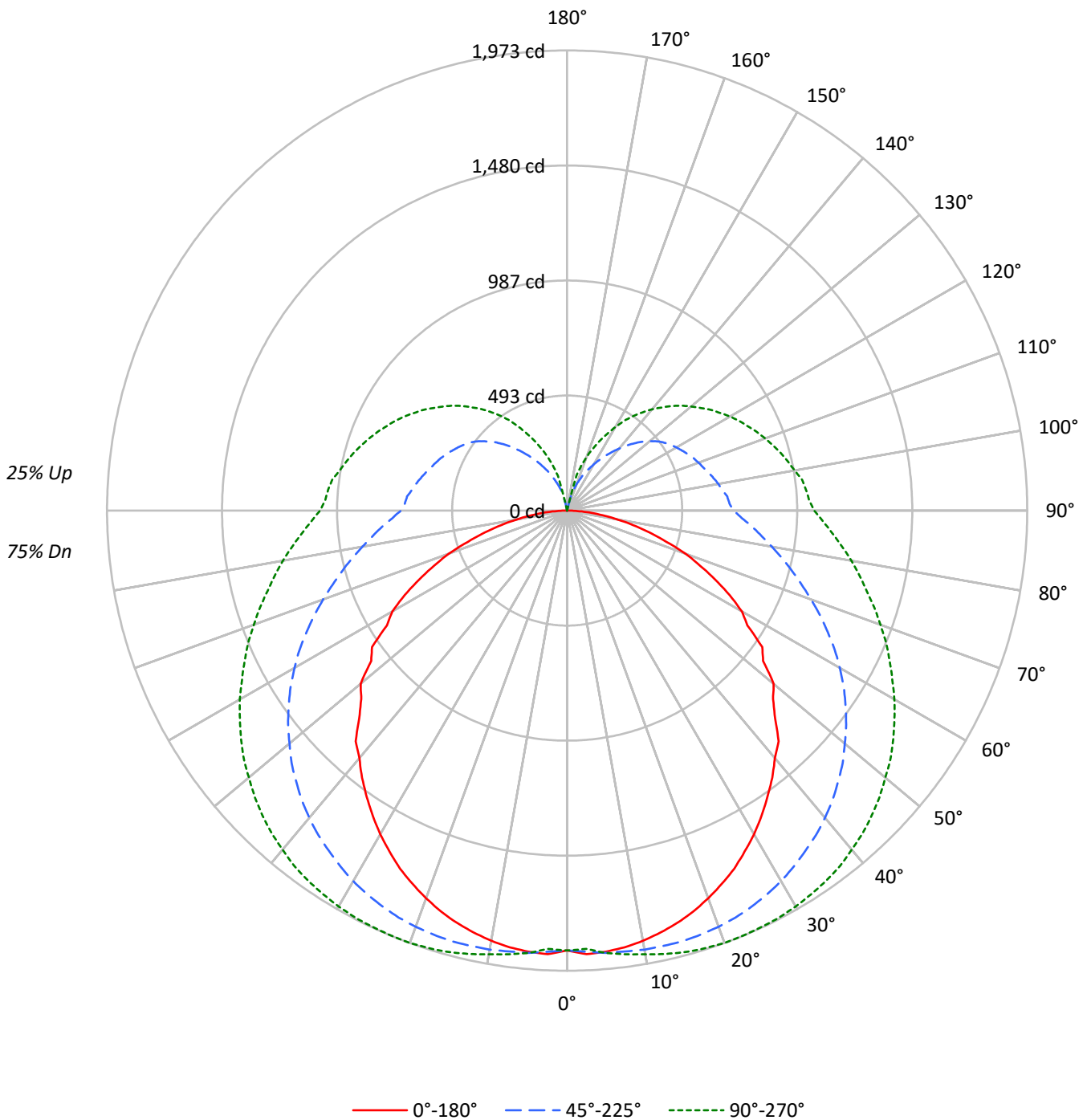
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	7620	7620	7620
5°	7690	7539	7476
10°	7664	7478	7434
15°	7622	7444	7449
20°	7561	7417	7462
25°	7500	7397	7475
30°	7410	7382	7515
35°	7309	7361	7565
40°	7214	7364	7615
45°	7092	7357	7676
50°	7134	7348	7736
55°	7034	7359	7829
60°	6807	7377	7936
65°	6468	7398	8083
70°	6100	7470	8311
75°	5421	7666	8645
80°	4692	8070	9204
85°	3713	8873	10018



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.3	1.7
10°-20°	537.3	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°	2668.3	24.6
0°-60°	5168.5	47.6
0°-90°	8119.3	74.8
90°-120°	1778.8	16.4
90°-150°	2641.8	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	1904	1904	1904	180
15°	1830	1845	1911	1947	1960	516
25°	1694	1751	1873	1940	1970	780
35°	1498	1608	1781	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	418	796	1054	1143	103
90°	5	342	712	970	1059	8
95°	0	322	689	942	1028	0
105°	0	296	628	865	949	0
115°	0	276	572	778	855	0
125°	0	237	508	686	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	38	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°	1885.9	1885.9	1885.9	1885.9	1885.9
2.5°	1903.7	1883.3	1893.5	1891.0	1880.8
5°	1898.6	1883.3	1903.7	1903.7	1903.7
7.5°	1888.4	1878.2	1906.3	1916.5	1919.0
10°	1873.1	1873.1	1911.4	1926.7	1931.8
12.5°	1852.7	1860.4	1911.4	1934.4	1947.1
15°	1829.7	1845.0	1911.4	1947.1	1959.9
17.5°	1801.7	1827.2	1906.3	1949.7	1967.5
20°	1768.5	1806.8	1898.6	1949.7	1972.6
22.5°	1732.8	1781.2	1888.4	1944.6	1972.6
25°	1694.5	1750.6	1873.1	1939.5	1970.1
27.5°	1648.5	1720.0	1855.2	1931.8	1967.5
30°	1602.6	1684.3	1834.8	1921.6	1959.9
32.5°	1551.6	1646.0	1809.3	1906.3	1949.7
35°	1498.0	1607.7	1781.2	1891.0	1936.9
37.5°	1444.4	1561.8	1753.2	1870.6	1921.6
40°	1385.7	1515.8	1720.0	1845.0	1898.6
42.5°	1342.3	1467.4	1684.3	1819.5	1875.7
45°	1260.6	1431.6	1643.4	1786.3	1847.6
47.5°	1196.9	1362.7	1602.6	1753.2	1817.0
50°	1156.0	1306.6	1554.1	1714.9	1781.2
52.5°	1059.0	1268.3	1508.2	1676.6	1748.1
55°	1020.8	1191.7	1457.1	1635.8	1707.2
57.5°	916.1	1138.2	1406.1	1589.8	1663.9
60°	865.1	1064.2	1350.0	1543.9	1620.5
62.5°	786.0	1000.4	1293.8	1492.9	1572.0
65°	699.2	931.5	1232.6	1444.4	1526.0
67.5°	617.6	862.5	1173.9	1393.3	1480.1
70°	538.5	791.1	1112.6	1342.3	1429.1
72.5°	446.6	719.6	1053.9	1293.8	1380.6
75°	367.5	650.7	997.8	1242.8	1329.6
77.5°	290.9	584.4	944.2	1196.9	1283.6
80°	219.5	520.6	890.6	1148.4	1237.7
82.5°	153.1	467.0	842.1	1102.4	1189.2
85°	94.4	418.5	796.2	1053.9	1143.3
87.5°	43.4	375.1	750.3	1008.0	1099.9
90°	5.1	342.0	712.0	969.7	1059.0
92.5°	2.6	331.7	696.7	951.9	1038.6
95°	0.0	321.5	689.0	941.7	1028.4
97.5°	0.0	311.3	671.2	926.3	1015.7
100°	0.0	306.2	658.4	903.4	990.1
102.5°	0.0	298.6	643.1	883.0	969.7
105°	0.0	296.0	627.8	865.1	949.3
107.5°	0.0	290.9	612.5	842.1	926.3
110°	0.0	285.8	599.7	821.7	903.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	280.7	586.9	801.3	880.4
115°	0.0	275.6	571.6	778.3	854.9
117.5°	0.0	268.0	556.3	755.4	831.9
120°	0.0	257.7	541.0	735.0	806.4
122.5°	0.0	247.5	525.7	709.4	778.3
125°	0.0	237.3	507.8	686.5	752.8
127.5°	0.0	222.0	487.4	660.9	722.2
130°	0.0	206.7	461.9	635.4	694.1
132.5°	2.6	191.4	436.4	607.4	666.1
135°	0.0	176.1	408.3	579.3	632.9
137.5°	0.0	163.3	377.7	548.7	599.7
140°	0.0	148.0	347.1	512.9	566.5
142.5°	0.0	130.1	316.4	474.7	530.8
145°	0.0	114.8	285.8	433.8	495.1
147.5°	2.6	102.1	257.7	390.4	456.8
150°	2.6	91.9	229.7	347.1	413.4
152.5°	2.6	81.7	201.6	306.2	370.0
155°	2.6	71.5	176.1	265.4	329.2
157.5°	2.6	61.2	148.0	224.6	285.8
160°	2.6	53.6	122.5	188.8	245.0
162.5°	2.6	45.9	99.5	148.0	201.6
165°	2.6	38.3	79.1	109.7	155.7
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)