

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: P284685

Luminaire Tested: **8SNLED-LD5-170HL-SLW-UNV-L935-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: P284685
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-L935-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: 11527.0 lumens
Efficiency: N/A
Efficacy: 93.0 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

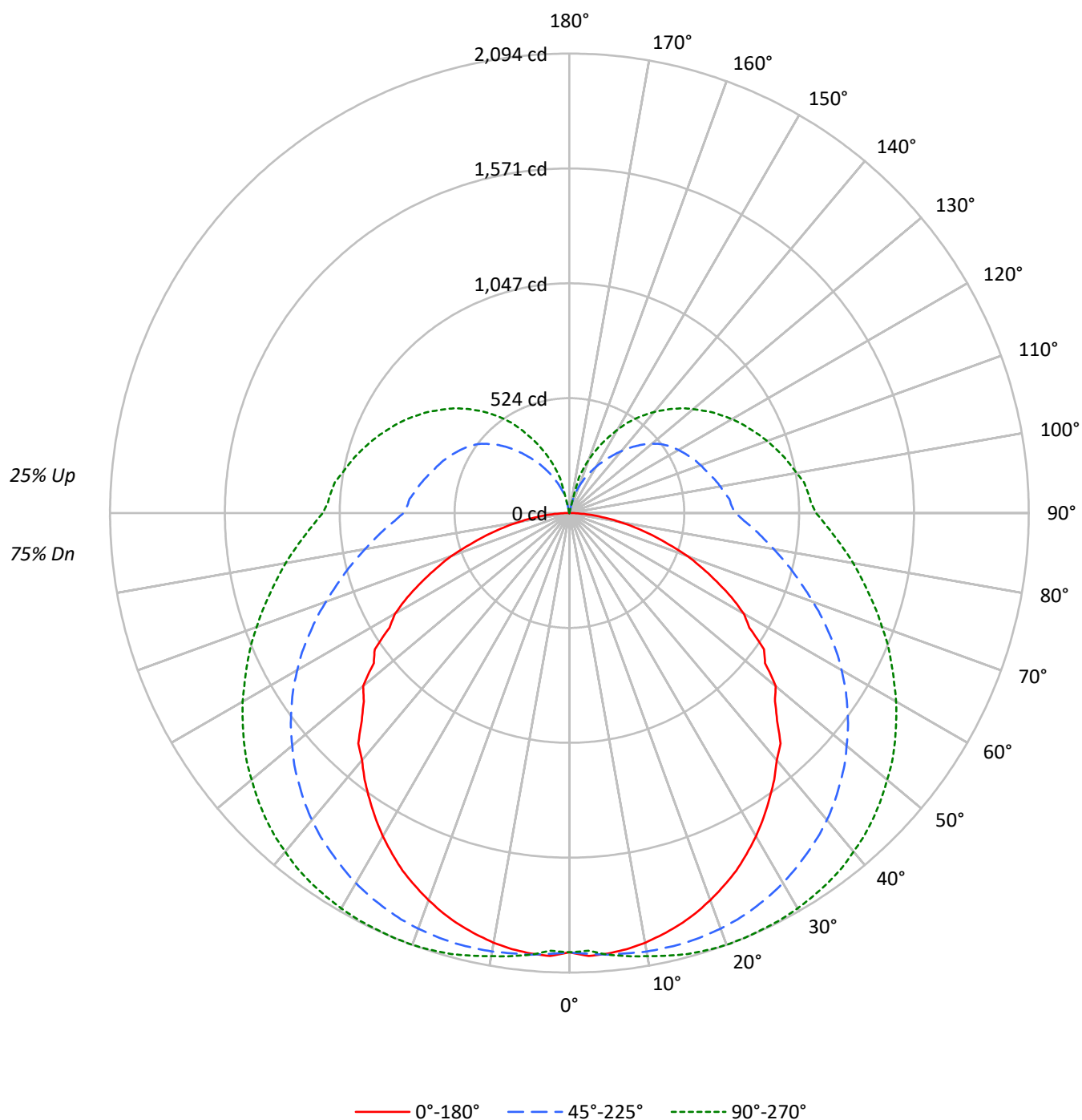
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8089	8089	8089
5°	8162	8001	7934
10°	8134	7938	7890
15°	8090	7902	7906
20°	8025	7873	7922
25°	7961	7851	7934
30°	7865	7834	7977
35°	7757	7814	8031
40°	7656	7817	8083
45°	7530	7807	8148
50°	7573	7800	8212
55°	7464	7811	8310
60°	7224	7828	8422
65°	6863	7853	8579
70°	6475	7930	8821
75°	5757	8137	9177
80°	4984	8563	9768
85°	3937	9416	10632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	1.7
10°-20°	570.2	4.9
20°-30°	906.3	7.9
30°-40°	1163.2	10.1
40°-50°	1313.5	11.4
50°-60°	1340.3	11.6
60°-70°	1241.7	10.8
70°-80°	1051.2	9.1
80°-90°	839.1	7.3
90°-100°	712.6	6.2
100°-110°	634.8	5.5
110°-120°	540.7	4.7
120°-130°	429.4	3.7
130°-140°	304.7	2.6
140°-150°	181.9	1.6
150°-160°	84.8	0.7
160°-170°	20.2	0.2
170°-180°	0.0	0.0
0°-30°	1668.9	14.5
0°-40°	2832.1	24.6
0°-60°	5485.9	47.6
0°-90°	8617.9	74.8
90°-120°	1888.1	16.4
90°-150°	2804.1	24.3
90°-180°	2909.0	25.2
0°-180°	11527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2002	2002	2002	2002	2002	
5°	2015	1999	2020	2020	2020	191
15°	1942	1958	2029	2066	2080	548
25°	1799	1858	1988	2058	2091	828
35°	1590	1707	1891	2007	2056	995
45°	1338	1520	1744	1896	1961	1039
55°	1083	1265	1547	1736	1812	951
65°	742	989	1308	1533	1620	736
75°	390	691	1059	1319	1411	415
85°	100	444	845	1118	1213	109
90°	5	363	756	1029	1124	8
95°	0	341	732	999	1091	0
105°	0	314	667	918	1008	0
115°	0	292	607	826	907	0
125°	0	252	539	729	799	0
135°	0	187	433	615	672	1
145°	0	122	303	460	526	1
155°	3	76	187	281	349	1
165°	3	41	84	116	165	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284685

CATALOG NUMBER: 8SNLED-LD5-170HL-SLW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2002.0	2002.0	2002.0	2002.0	2002.0
2.5°	2020.3	1999.1	2010.1	2007.1	1996.2
5°	2015.2	1999.1	2020.3	2020.3	2020.3
7.5°	2004.2	1993.3	2023.2	2034.2	2037.1
10°	1988.1	1988.1	2029.1	2045.1	2050.3
12.5°	1966.2	1974.2	2029.1	2053.2	2066.3
15°	1942.1	1958.2	2029.1	2066.3	2080.2
17.5°	1912.1	1939.2	2023.2	2069.3	2088.3
20°	1877.0	1918.0	2015.2	2069.3	2094.1
22.5°	1839.0	1890.9	2004.2	2064.2	2094.1
25°	1798.8	1858.0	1988.1	2058.3	2091.2
27.5°	1749.9	1825.9	1969.1	2050.3	2088.3
30°	1700.9	1787.9	1947.2	2039.3	2080.2
32.5°	1646.8	1746.9	1920.2	2023.2	2069.3
35°	1589.8	1706.7	1890.9	2007.1	2056.1
37.5°	1532.8	1657.8	1861.0	1985.2	2039.3
40°	1470.6	1608.8	1825.9	1958.2	2015.2
42.5°	1424.6	1557.6	1787.9	1931.1	1991.1
45°	1338.3	1519.6	1744.0	1896.0	1961.1
47.5°	1270.4	1446.5	1700.9	1861.0	1928.2
50°	1227.2	1386.6	1649.7	1820.0	1890.9
52.5°	1124.2	1346.4	1600.7	1779.8	1855.1
55°	1083.2	1265.2	1546.7	1736.0	1812.0
57.5°	972.1	1208.2	1492.6	1687.7	1765.9
60°	918.1	1129.3	1432.6	1638.7	1719.9
62.5°	834.0	1062.0	1373.4	1584.7	1668.7
65°	741.9	989.0	1308.4	1532.8	1619.7
67.5°	655.6	915.9	1246.2	1478.7	1570.8
70°	571.6	839.8	1181.2	1424.6	1516.7
72.5°	473.6	763.8	1118.3	1373.4	1465.5
75°	390.3	690.7	1059.1	1319.3	1411.4
77.5°	308.5	620.6	1002.1	1270.4	1362.5
80°	233.2	552.6	945.1	1219.2	1313.5
82.5°	162.3	495.6	893.9	1170.2	1262.3
85°	100.1	444.4	845.0	1118.3	1213.3
87.5°	46.0	398.4	796.0	1070.1	1167.3
90°	5.1	363.3	755.8	1029.2	1124.2
92.5°	2.9	352.3	739.7	1010.1	1102.2
95°	0.0	341.3	731.7	999.2	1091.3
97.5°	0.0	330.4	712.7	983.1	1078.1
100°	0.0	325.3	698.8	959.0	1051.1
102.5°	0.0	317.2	682.7	937.1	1029.2
105°	0.0	314.3	666.6	918.1	1008.0
107.5°	0.0	308.5	649.8	893.9	983.1
110°	0.0	303.3	636.6	872.0	959.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	298.2	622.8	850.8	934.1
115°	0.0	292.4	606.7	826.0	907.1
117.5°	0.0	284.3	590.6	801.8	883.0
120°	0.0	273.4	574.5	779.9	855.9
122.5°	0.0	262.4	557.7	752.9	826.0
125°	0.0	252.2	538.7	728.7	798.9
127.5°	0.0	235.4	517.5	701.7	766.7
130°	0.0	219.3	490.5	674.7	736.8
132.5°	2.9	203.2	463.4	644.7	706.8
135°	0.0	187.1	433.4	614.7	671.7
137.5°	0.0	173.2	400.6	582.6	636.6
140°	0.0	157.2	368.4	544.5	601.6
142.5°	0.0	138.1	336.2	503.6	563.5
145°	0.0	122.1	303.3	460.5	525.5
147.5°	2.9	108.2	273.4	414.4	484.6
150°	2.9	97.2	244.1	368.4	438.6
152.5°	2.9	87.0	214.2	325.3	392.5
155°	2.9	76.0	187.1	281.4	349.4
157.5°	2.9	65.1	157.2	238.3	303.3
160°	2.9	57.0	130.1	200.3	260.2
162.5°	2.9	49.0	106.0	157.2	214.2
165°	2.9	40.9	84.1	116.2	165.2
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)