

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: P284763

Luminaire Tested: **8SNLED-LD5-170HL-SLW-UNV-L950-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: P284763
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-L950-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: 12578.0 lumens
Efficiency: N/A
Efficacy: 101.4 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

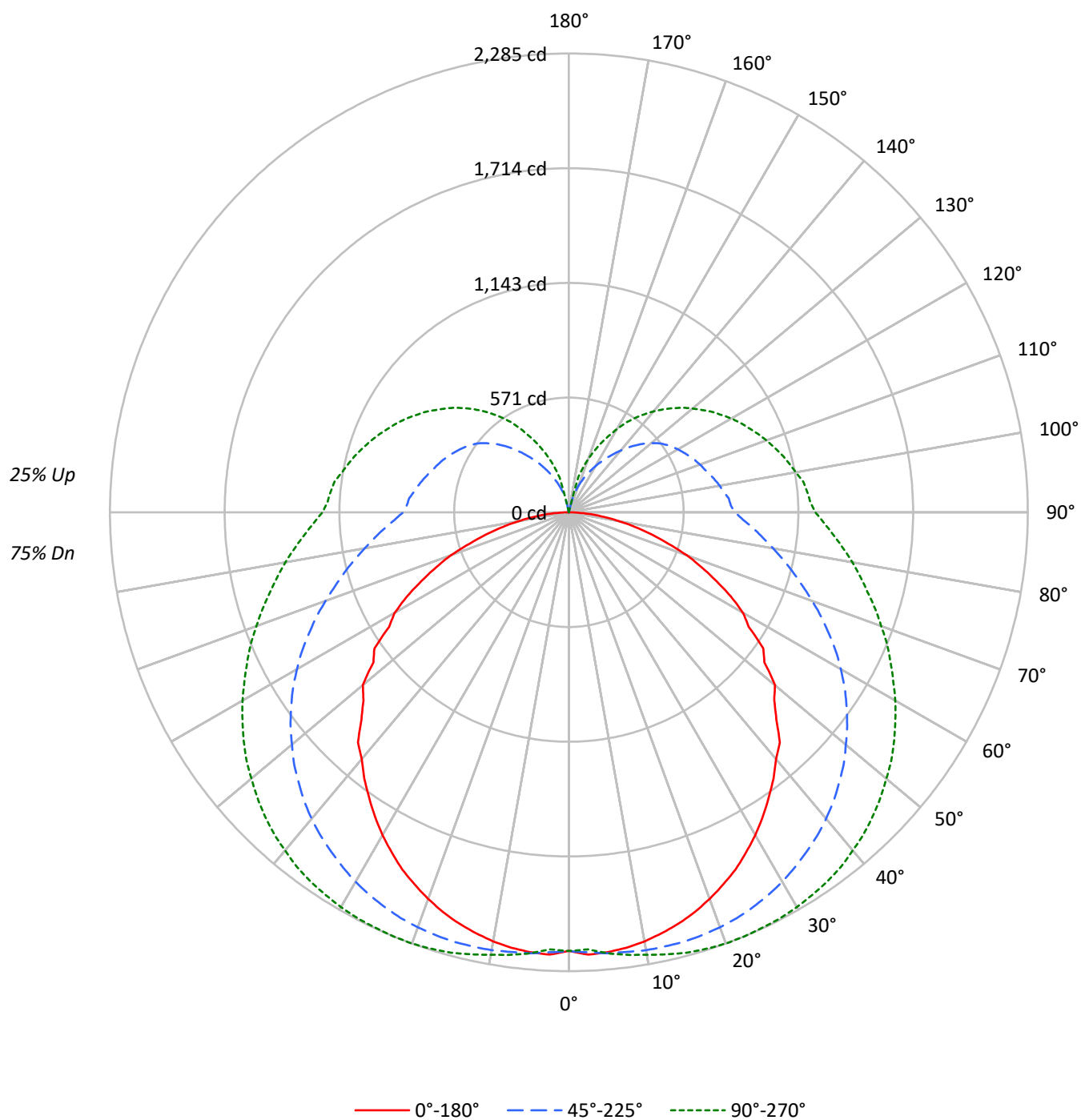
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284763

CATALOG NUMBER: 8SNLED-LD5-170HL-SLW-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284763

CATALOG NUMBER: 8SNLED-LD5-170HL-SLW-UNV-L950-CD1-U

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°	8827	8827	8827
5°	8906	8730	8657
10°	8876	8662	8609
15°	8828	8623	8627
20°	8757	8590	8644
25°	8687	8567	8658
30°	8582	8548	8704
35°	8464	8527	8763
40°	8354	8530	8820
45°	8217	8519	8890
50°	8264	8511	8961
55°	8145	8523	9067
60°	7882	8542	9190
65°	7488	8569	9362
70°	7065	8653	9625
75°	6283	8880	10014
80°	5438	9345	10658
85°	4299	10274	11602



TEST NUMBER: P284763

CATALOG NUMBER: 8SNLED-LD5-170HL-SLW-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.9	1.7
10°-20°	622.2	4.9
20°-30°	988.9	7.9
30°-40°	1269.2	10.1
40°-50°	1433.3	11.4
50°-60°	1462.5	11.6
60°-70°	1354.9	10.8
70°-80°	1147.1	9.1
80°-90°	915.6	7.3
90°-100°	777.5	6.2
100°-110°	692.7	5.5
110°-120°	590.0	4.7
120°-130°	468.6	3.7
130°-140°	332.5	2.6
140°-150°	198.5	1.6
150°-160°	92.5	0.7
160°-170°	22.0	0.2
170°-180°	0.0	0.0
0°-30°	1821.1	14.5
0°-40°	3090.3	24.6
0°-60°	5986.1	47.6
0°-90°	9403.7	74.8
90°-120°	2060.2	16.4
90°-150°	3059.8	24.3
90°-180°	3174.0	25.2
0°-180°	12578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2185	2185	2185	2185	2185	
5°	2199	2181	2204	2204	2204	209
15°	2119	2137	2214	2255	2270	598
25°	1963	2027	2169	2246	2282	904
35°	1735	1862	2063	2190	2244	1086
45°	1460	1658	1903	2069	2140	1134
55°	1182	1381	1688	1894	1977	1038
65°	810	1079	1428	1672	1767	804
75°	426	754	1156	1440	1540	453
85°	109	485	922	1220	1324	119
90°	6	396	825	1123	1227	9
95°	0	372	798	1090	1191	0
105°	0	343	727	1002	1100	0
115°	0	319	662	901	990	0
125°	0	275	588	795	872	0
135°	0	204	473	671	733	1
145°	0	133	331	502	574	1
155°	3	83	204	307	381	1
165°	3	45	92	127	180	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284763

CATALOG NUMBER: 8SNLED-LD5-170HL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2184.6	2184.6	2184.6	2184.6	2184.6
2.5°	2204.5	2181.4	2193.3	2190.1	2178.2
5°	2198.9	2181.4	2204.5	2204.5	2204.5
7.5°	2187.0	2175.0	2207.7	2219.7	2222.8
10°	2169.4	2169.4	2214.1	2231.6	2237.2
12.5°	2145.5	2154.3	2214.1	2240.4	2254.7
15°	2119.2	2136.7	2214.1	2254.7	2269.9
17.5°	2086.5	2116.0	2207.7	2257.9	2278.7
20°	2048.2	2092.8	2198.9	2257.9	2285.1
22.5°	2006.7	2063.3	2187.0	2252.4	2285.1
25°	1962.8	2027.4	2169.4	2246.0	2281.9
27.5°	1909.4	1992.3	2148.7	2237.2	2278.7
30°	1856.0	1950.9	2124.7	2225.2	2269.9
32.5°	1796.9	1906.2	2095.2	2207.7	2257.9
35°	1734.7	1862.3	2063.3	2190.1	2243.6
37.5°	1672.5	1808.9	2030.6	2166.2	2225.2
40°	1604.7	1755.5	1992.3	2136.7	2198.9
42.5°	1554.5	1699.6	1950.9	2107.2	2172.6
45°	1460.4	1658.2	1903.0	2068.9	2139.9
47.5°	1386.2	1578.4	1856.0	2030.6	2104.0
50°	1339.1	1513.0	1800.1	1986.0	2063.3
52.5°	1226.7	1469.1	1746.7	1942.1	2024.2
55°	1182.0	1380.6	1687.7	1894.2	1977.2
57.5°	1060.8	1318.4	1628.7	1841.6	1926.9
60°	1001.8	1232.3	1563.2	1788.2	1876.7
62.5°	910.0	1158.9	1498.6	1729.1	1820.9
65°	809.5	1079.1	1427.7	1672.5	1767.4
67.5°	715.4	999.4	1359.9	1613.5	1714.0
70°	623.7	916.4	1288.9	1554.5	1655.0
72.5°	516.8	833.5	1220.3	1498.6	1599.1
75°	425.9	753.7	1155.7	1439.6	1540.1
77.5°	336.6	677.1	1093.5	1386.2	1486.7
80°	254.4	603.0	1031.3	1330.4	1433.2
82.5°	177.1	540.8	975.4	1276.9	1377.4
85°	109.3	484.9	922.0	1220.3	1324.0
87.5°	50.2	434.7	868.6	1167.7	1273.7
90°	5.6	396.4	824.7	1123.0	1226.7
92.5°	3.2	384.4	807.1	1102.3	1202.7
95°	0.0	372.5	798.4	1090.3	1190.8
97.5°	0.0	360.5	777.6	1072.7	1176.4
100°	0.0	354.9	762.5	1046.4	1146.9
102.5°	0.0	346.1	744.9	1022.5	1123.0
105°	0.0	343.0	727.4	1001.8	1099.9
107.5°	0.0	336.6	709.0	975.4	1072.7
110°	0.0	331.0	694.7	951.5	1046.4



TEST NUMBER: P284763

CATALOG NUMBER: 8SNLED-LD5-170HL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	325.4	679.5	928.4	1019.3
115°	0.0	319.0	662.0	901.3	989.8
117.5°	0.0	310.3	644.4	874.9	963.5
120°	0.0	298.3	626.9	851.0	934.0
122.5°	0.0	286.3	608.6	821.5	901.3
125°	0.0	275.2	587.8	795.2	871.8
127.5°	0.0	256.8	564.7	765.7	836.7
130°	0.0	239.3	535.2	736.2	804.0
132.5°	3.2	221.7	505.7	703.5	771.3
135°	0.0	204.2	473.0	670.8	733.0
137.5°	0.0	189.0	437.1	635.7	694.7
140°	0.0	171.5	402.0	594.2	656.4
142.5°	0.0	150.7	366.9	549.5	614.9
145°	0.0	133.2	331.0	502.5	573.5
147.5°	3.2	118.0	298.3	452.2	528.8
150°	3.2	106.1	266.4	402.0	478.5
152.5°	3.2	94.9	233.7	354.9	428.3
155°	3.2	82.9	204.2	307.1	381.2
157.5°	3.2	71.0	171.5	260.0	331.0
160°	3.2	62.2	142.0	218.5	283.9
162.5°	3.2	53.4	115.6	171.5	233.7
165°	3.2	44.7	91.7	126.8	180.3
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)