

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: P284608

Luminaire Tested: **8SNLED-LD5-200HL-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: P284608
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-LD5-200HL-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: 16557.0 lumens
Efficiency: N/A
Efficacy: 104.8 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

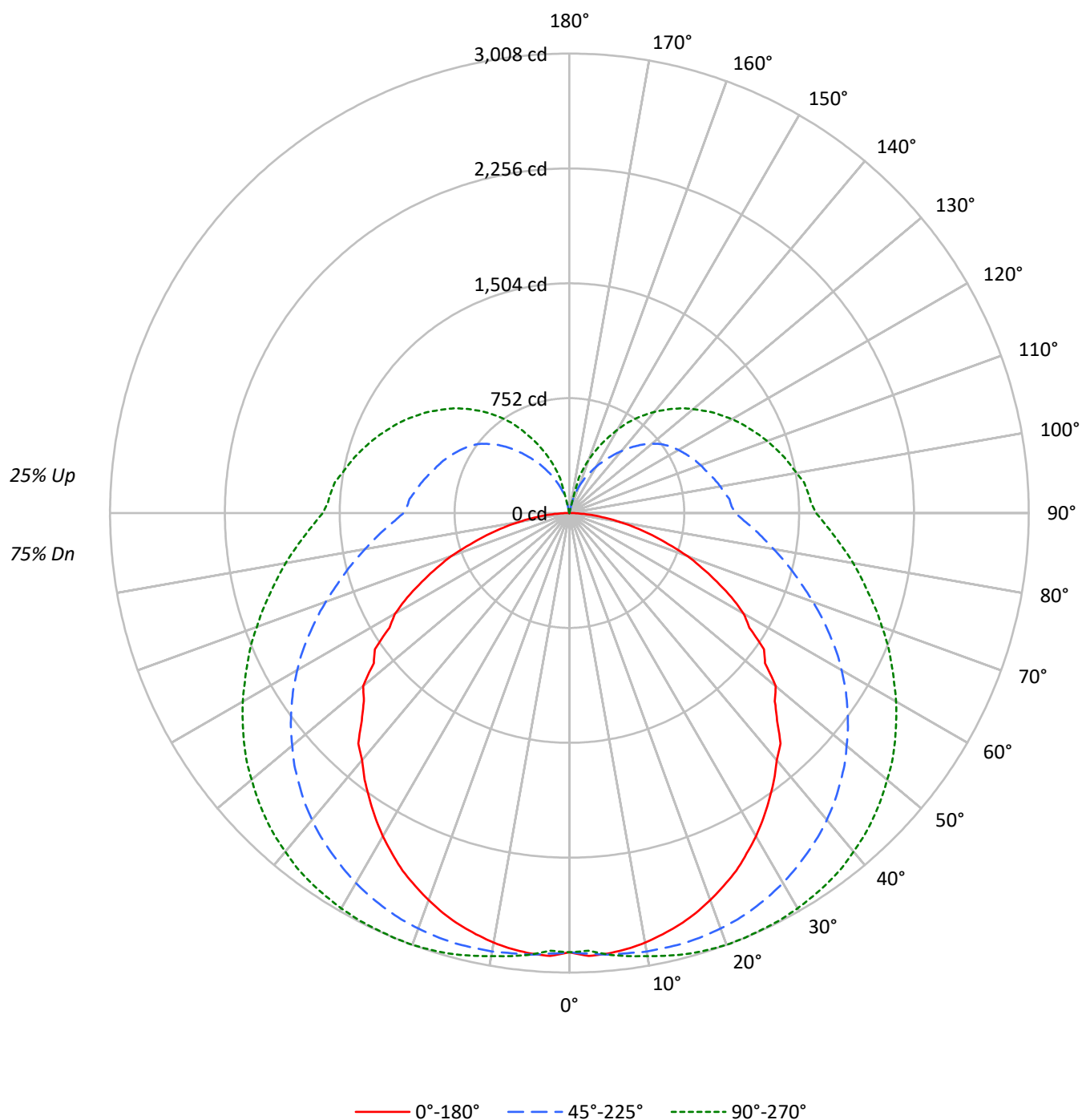
Input Watts (W): 158
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284608

CATALOG NUMBER: 8SNLED-LD5-200HL-SLW-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284608

CATALOG NUMBER: 8SNLED-LD5-200HL-SLW-UNV-L850-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°	11619	11619	11619
5°	11724	11492	11396
10°	11684	11402	11332
15°	11620	11351	11357
20°	11527	11308	11379
25°	11436	11277	11396
30°	11297	11253	11458
35°	11142	11224	11535
40°	10998	11228	11610
45°	10815	11214	11703
50°	10878	11204	11796
55°	10721	11220	11936
60°	10376	11244	12098
65°	9858	11280	12323
70°	9300	11391	12670
75°	8269	11689	13182
80°	7158	12300	14030
85°	5656	13525	15272



TEST NUMBER: P284608

CATALOG NUMBER: 8SNLED-LD5-200HL-SLW-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	1.7
10°-20°	819.1	4.9
20°-30°	1301.8	7.9
30°-40°	1670.7	10.1
40°-50°	1886.7	11.4
50°-60°	1925.1	11.6
60°-70°	1783.5	10.8
70°-80°	1510.0	9.1
80°-90°	1205.3	7.3
90°-100°	1023.5	6.2
100°-110°	911.9	5.5
110°-120°	776.6	4.7
120°-130°	616.8	3.7
130°-140°	437.6	2.6
140°-150°	261.3	1.6
150°-160°	121.8	0.7
160°-170°	28.9	0.2
170°-180°	0.0	0.0
0°-30°	2397.2	14.5
0°-40°	4067.9	24.6
0°-60°	7879.7	47.6
0°-90°	12378.5	74.8
90°-120°	2712.0	16.4
90°-150°	4027.8	24.3
90°-180°	4179.0	25.2
0°-180°	16557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2876	2876	2876	2876	2876	
5°	2894	2871	2902	2902	2902	275
15°	2790	2813	2914	2968	2988	787
25°	2584	2669	2856	2956	3004	1189
35°	2284	2452	2716	2883	2953	1430
45°	1922	2183	2505	2723	2817	1493
55°	1556	1817	2222	2494	2603	1366
65°	1066	1420	1879	2202	2326	1058
75°	561	992	1521	1895	2027	596
85°	144	638	1214	1606	1743	157
90°	7	522	1086	1478	1615	12
95°	0	490	1051	1435	1568	1
105°	0	452	958	1319	1448	0
115°	0	420	871	1186	1303	0
125°	0	362	774	1047	1148	0
135°	0	269	623	883	965	1
145°	0	175	436	661	755	2
155°	4	109	269	404	502	2
165°	4	59	121	167	237	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284608

CATALOG NUMBER: 8SNLED-LD5-200HL-SLW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2875.6	2875.6	2875.6	2875.6	2875.6
2.5°	2901.9	2871.4	2887.2	2883.0	2867.2
5°	2894.5	2871.4	2901.9	2901.9	2901.9
7.5°	2878.8	2863.0	2906.1	2921.8	2926.0
10°	2855.7	2855.7	2914.5	2937.6	2944.9
12.5°	2824.2	2835.7	2914.5	2949.1	2968.0
15°	2789.5	2812.6	2914.5	2968.0	2988.0
17.5°	2746.5	2785.3	2906.1	2972.2	2999.5
20°	2696.1	2754.9	2894.5	2972.2	3007.9
22.5°	2641.5	2716.1	2878.8	2964.9	3007.9
25°	2583.8	2668.8	2855.7	2956.5	3003.7
27.5°	2513.4	2622.6	2828.4	2944.9	2999.5
30°	2443.1	2568.0	2796.9	2929.2	2988.0
32.5°	2365.4	2509.2	2758.1	2906.1	2972.2
35°	2283.5	2451.5	2716.1	2883.0	2953.3
37.5°	2201.6	2381.1	2673.0	2851.5	2929.2
40°	2112.4	2310.8	2622.6	2812.6	2894.5
42.5°	2046.2	2237.3	2568.0	2773.8	2859.9
45°	1922.3	2182.7	2505.0	2723.4	2816.8
47.5°	1824.7	2077.7	2443.1	2673.0	2769.6
50°	1762.8	1991.6	2369.6	2614.2	2716.1
52.5°	1614.7	1933.9	2299.3	2556.5	2664.6
55°	1555.9	1817.4	2221.6	2493.5	2602.7
57.5°	1396.3	1735.5	2143.9	2424.2	2536.5
60°	1318.7	1622.1	2057.8	2353.8	2470.4
62.5°	1197.9	1525.5	1972.7	2276.2	2396.9
65°	1065.6	1420.5	1879.3	2201.6	2326.5
67.5°	941.7	1315.5	1790.1	2123.9	2256.2
70°	821.0	1206.3	1696.6	2046.2	2178.5
72.5°	680.3	1097.1	1606.3	1972.7	2105.0
75°	560.6	992.1	1521.3	1895.0	2027.3
77.5°	443.1	891.4	1439.4	1824.7	1957.0
80°	334.9	793.7	1357.5	1751.2	1886.6
82.5°	233.1	711.8	1284.0	1680.9	1813.2
85°	143.8	638.3	1213.7	1606.3	1742.8
87.5°	66.1	572.2	1143.3	1537.0	1676.7
90°	7.3	521.8	1085.6	1478.2	1614.7
92.5°	4.2	506.0	1062.5	1450.9	1583.2
95°	0.0	490.3	1050.9	1435.2	1567.5
97.5°	0.0	474.5	1023.6	1412.1	1548.6
100°	0.0	467.2	1003.7	1377.5	1509.7
102.5°	0.0	455.7	980.6	1346.0	1478.2
105°	0.0	451.5	957.5	1318.7	1447.8
107.5°	0.0	443.1	933.3	1284.0	1412.1
110°	0.0	435.7	914.5	1252.5	1377.5



TEST NUMBER: P284608

CATALOG NUMBER: 8SNLED-LD5-200HL-SLW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	428.4	894.5	1222.1	1341.8
115°	0.0	420.0	871.4	1186.4	1302.9
117.5°	0.0	408.4	848.3	1151.7	1268.3
120°	0.0	392.7	825.2	1120.2	1229.4
122.5°	0.0	376.9	801.1	1081.4	1186.4
125°	0.0	362.2	773.8	1046.7	1147.5
127.5°	0.0	338.1	743.3	1007.9	1101.3
130°	0.0	315.0	704.5	969.0	1058.3
132.5°	4.2	291.9	665.6	926.0	1015.2
135°	0.0	268.8	622.6	883.0	964.8
137.5°	0.0	248.8	575.3	836.8	914.5
140°	0.0	225.7	529.1	782.2	864.1
142.5°	0.0	198.4	482.9	723.4	809.5
145°	0.0	175.3	435.7	661.4	754.9
147.5°	4.2	155.4	392.7	595.3	696.1
150°	4.2	139.6	350.7	529.1	629.9
152.5°	4.2	124.9	307.6	467.2	563.8
155°	4.2	109.2	268.8	404.2	501.8
157.5°	4.2	93.4	225.7	342.3	435.7
160°	4.2	81.9	186.9	287.7	373.8
162.5°	4.2	70.3	152.2	225.7	307.6
165°	4.2	58.8	120.7	166.9	237.3
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)