

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: P284686

Luminaire Tested: **8SNLED-LD5-200HL-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: P284686
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-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: 13676.0 lumens
Efficiency: N/A
Efficacy: 86.6 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

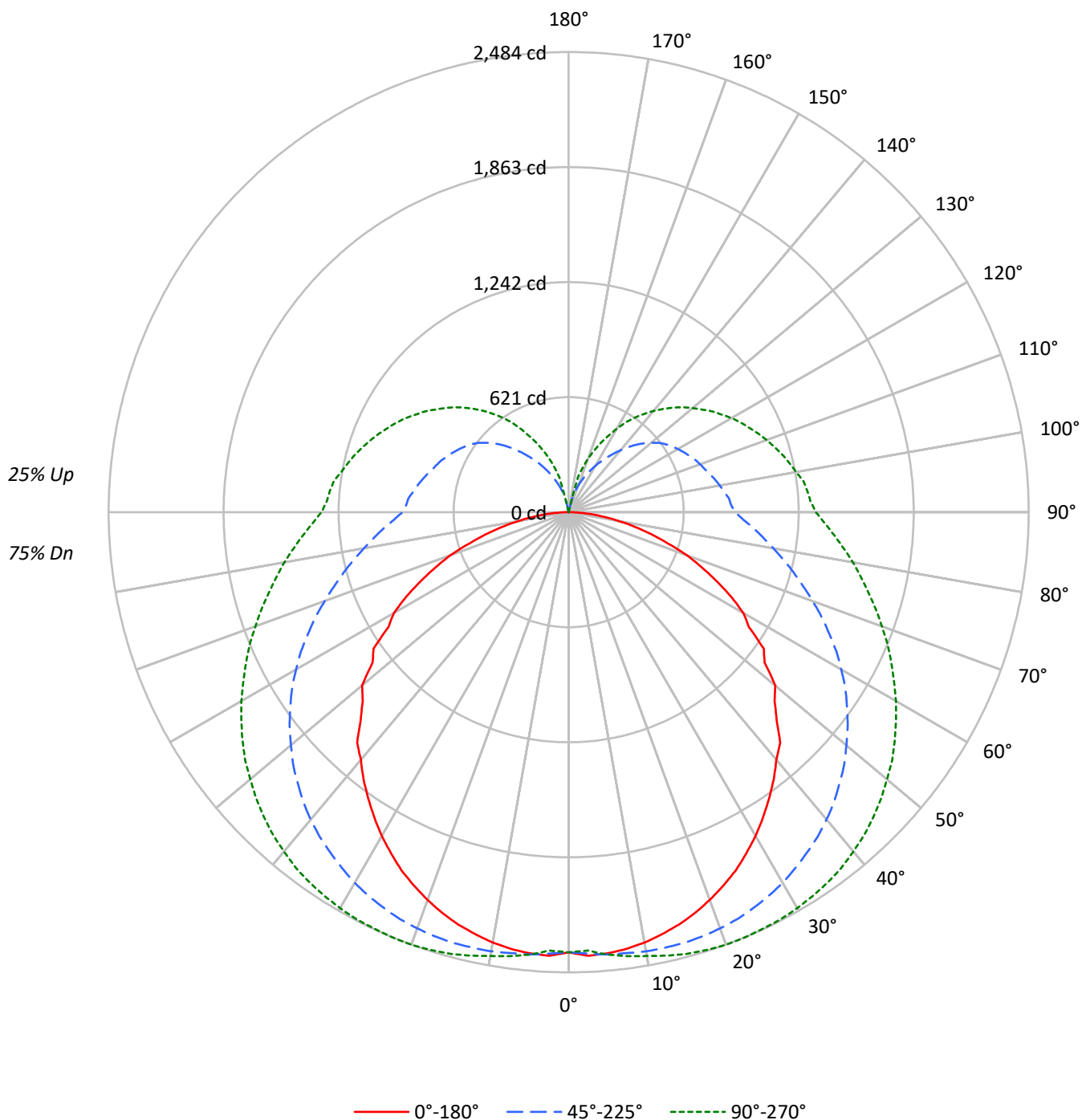
Input Watts (W): 158
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9597	9597	9597
5°	9684	9492	9413
10°	9651	9418	9361
15°	9598	9375	9381
20°	9522	9341	9399
25°	9446	9315	9414
30°	9331	9295	9464
35°	9203	9271	9528
40°	9084	9275	9590
45°	8933	9262	9667
50°	8985	9254	9743
55°	8856	9267	9859
60°	8570	9288	9992
65°	8142	9317	10179
70°	7682	9409	10465
75°	6831	9655	10889
80°	5912	10160	11589
85°	4673	11172	12615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.3	1.7
10°-20°	676.5	4.9
20°-30°	1075.3	7.9
30°-40°	1380.0	10.1
40°-50°	1558.4	11.4
50°-60°	1590.2	11.6
60°-70°	1473.2	10.8
70°-80°	1247.2	9.1
80°-90°	995.6	7.3
90°-100°	845.4	6.2
100°-110°	753.2	5.5
110°-120°	641.5	4.7
120°-130°	509.5	3.7
130°-140°	361.5	2.6
140°-150°	215.8	1.6
150°-160°	100.6	0.7
160°-170°	23.9	0.2
170°-180°	0.0	0.0
0°-30°	1980.1	14.5
0°-40°	3360.1	24.6
0°-60°	6508.6	47.6
0°-90°	10224.6	74.8
90°-120°	2240.1	16.4
90°-150°	3326.9	24.3
90°-180°	3451.0	25.2
0°-180°	13676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2375	2375	2375	2375	2375	
5°	2391	2372	2397	2397	2397	227
15°	2304	2323	2407	2452	2468	650
25°	2134	2204	2359	2442	2481	982
35°	1886	2025	2243	2381	2439	1181
45°	1588	1803	2069	2250	2327	1233
55°	1285	1501	1835	2060	2150	1128
65°	880	1173	1552	1818	1922	874
75°	463	820	1257	1565	1675	493
85°	119	527	1002	1327	1440	130
90°	6	431	897	1221	1334	10
95°	0	405	868	1186	1295	0
105°	0	373	791	1089	1196	0
115°	0	347	720	980	1076	0
125°	0	299	639	865	948	0
135°	0	222	514	729	797	1
145°	0	145	360	546	624	1
155°	4	90	222	334	414	2
165°	4	49	100	138	196	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°	2375.3	2375.3	2375.3	2375.3	2375.3
2.5°	2396.9	2371.8	2384.8	2381.3	2368.3
5°	2390.9	2371.8	2396.9	2396.9	2396.9
7.5°	2377.9	2364.9	2400.4	2413.4	2416.9
10°	2358.8	2358.8	2407.3	2426.4	2432.5
12.5°	2332.8	2342.3	2407.3	2436.0	2451.6
15°	2304.2	2323.2	2407.3	2451.6	2468.1
17.5°	2268.6	2300.7	2400.4	2455.0	2477.6
20°	2227.0	2275.5	2390.9	2455.0	2484.5
22.5°	2181.9	2243.4	2377.9	2449.0	2484.5
25°	2134.2	2204.4	2358.8	2442.0	2481.1
27.5°	2076.1	2166.3	2336.2	2432.5	2477.6
30°	2018.0	2121.2	2310.2	2419.5	2468.1
32.5°	1953.8	2072.6	2278.1	2400.4	2455.0
35°	1886.2	2024.9	2243.4	2381.3	2439.4
37.5°	1818.5	1966.8	2207.9	2355.3	2419.5
40°	1744.8	1908.7	2166.3	2323.2	2390.9
42.5°	1690.2	1848.0	2121.2	2291.1	2362.3
45°	1587.8	1802.9	2069.1	2249.5	2326.7
47.5°	1507.2	1716.2	2018.0	2207.9	2287.7
50°	1456.0	1645.1	1957.3	2159.3	2243.4
52.5°	1333.8	1597.4	1899.2	2111.6	2201.0
55°	1285.2	1501.1	1835.0	2059.6	2149.8
57.5°	1153.4	1433.5	1770.8	2002.4	2095.2
60°	1089.2	1339.8	1699.7	1944.3	2040.5
62.5°	989.5	1260.0	1629.5	1880.1	1979.8
65°	880.2	1173.3	1552.3	1818.5	1921.7
67.5°	777.9	1086.6	1478.6	1754.3	1863.6
70°	678.2	996.4	1401.4	1690.2	1799.4
72.5°	561.9	906.2	1326.8	1629.5	1738.7
75°	463.1	819.5	1256.6	1565.3	1674.6
77.5°	366.0	736.3	1188.9	1507.2	1616.5
80°	276.6	655.6	1121.3	1446.5	1558.4
82.5°	192.5	588.0	1060.6	1388.4	1497.7
85°	118.8	527.3	1002.5	1326.8	1439.6
87.5°	54.6	472.6	944.4	1269.6	1384.9
90°	6.1	431.0	896.7	1221.0	1333.8
92.5°	3.5	418.0	877.6	1198.5	1307.7
95°	0.0	405.0	868.1	1185.5	1294.7
97.5°	0.0	392.0	845.5	1166.4	1279.1
100°	0.0	385.9	829.0	1137.8	1247.0
102.5°	0.0	376.4	810.0	1111.8	1221.0
105°	0.0	372.9	790.9	1089.2	1195.9
107.5°	0.0	366.0	770.9	1060.6	1166.4
110°	0.0	359.9	755.3	1034.6	1137.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	353.8	738.9	1009.4	1108.3
115°	0.0	346.9	719.8	979.9	1076.2
117.5°	0.0	337.3	700.7	951.3	1047.6
120°	0.0	324.3	681.6	925.3	1015.5
122.5°	0.0	311.3	661.7	893.2	979.9
125°	0.0	299.2	639.1	864.6	947.9
127.5°	0.0	279.2	614.0	832.5	909.7
130°	0.0	260.2	581.9	800.4	874.1
132.5°	3.5	241.1	549.8	764.9	838.6
135°	0.0	222.0	514.3	729.3	797.0
137.5°	0.0	205.5	475.2	691.2	755.3
140°	0.0	186.4	437.1	646.1	713.7
142.5°	0.0	163.9	398.9	597.5	668.6
145°	0.0	144.8	359.9	546.3	623.5
147.5°	3.5	128.3	324.3	491.7	575.0
150°	3.5	115.3	289.6	437.1	520.3
152.5°	3.5	103.2	254.1	385.9	465.7
155°	3.5	90.2	222.0	333.9	414.5
157.5°	3.5	77.2	186.4	282.7	359.9
160°	3.5	67.6	154.4	237.6	308.7
162.5°	3.5	58.1	125.7	186.4	254.1
165°	3.5	48.6	99.7	137.9	196.0
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)