

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: P284491

Luminaire Tested: **8SNLED-LD5-200HL-SLW-UNV-L830-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: P284491
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-L830-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: 16005.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

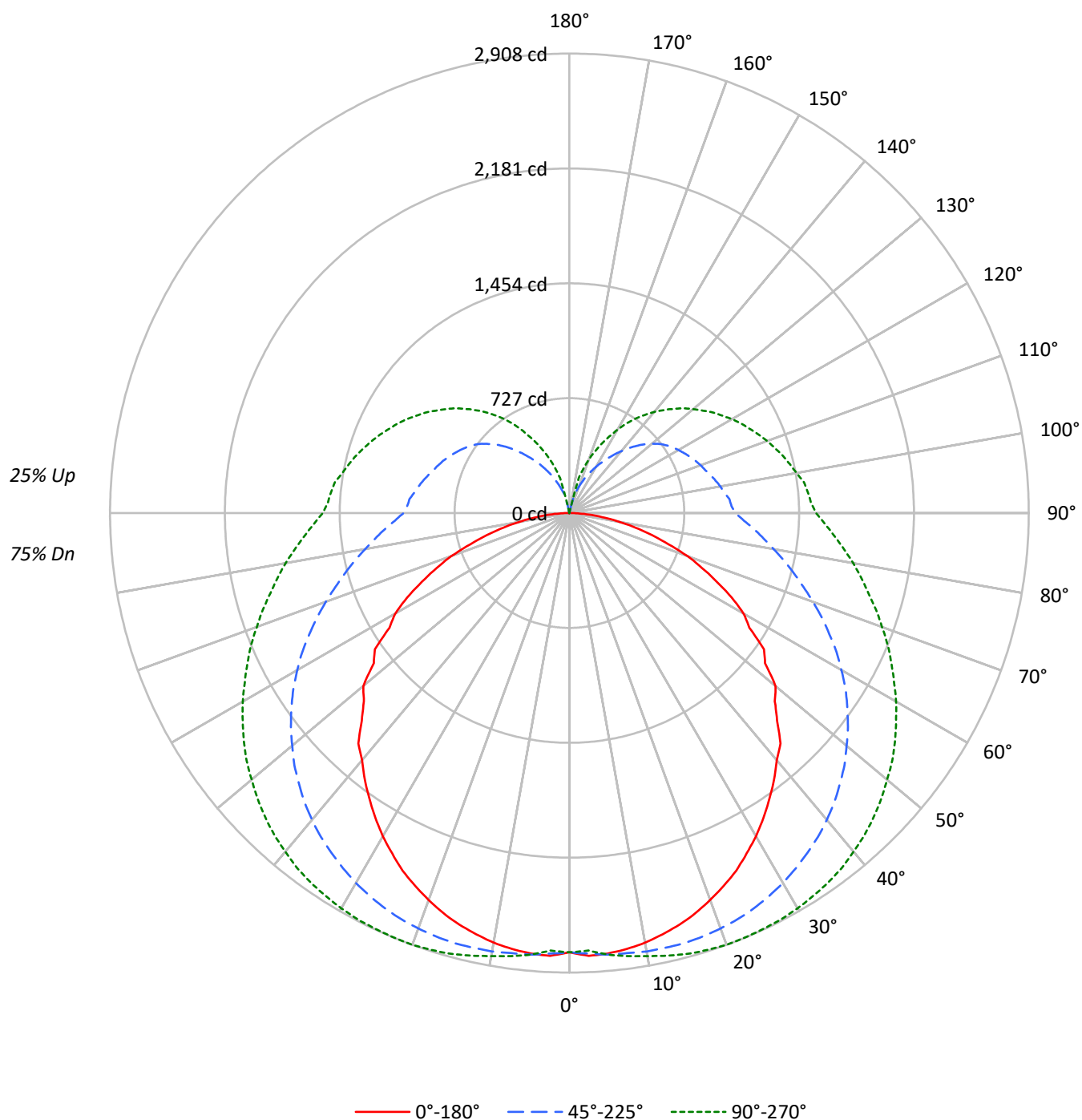
Input Watts (W): 158
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	11232	11232	11232
5°	11333	11109	11016
10°	11295	11022	10954
15°	11233	10972	10978
20°	11143	10931	10999
25°	11054	10901	11017
30°	10920	10878	11076
35°	10770	10850	11151
40°	10631	10854	11223
45°	10455	10840	11313
50°	10515	10830	11403
55°	10364	10845	11538
60°	10029	10870	11694
65°	9529	10903	11912
70°	8989	11011	12247
75°	7994	11299	12742
80°	6919	11890	13562
85°	5468	13074	14763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.1	1.7
10°-20°	791.8	4.9
20°-30°	1258.4	7.9
30°-40°	1615.0	10.1
40°-50°	1823.8	11.4
50°-60°	1861.0	11.6
60°-70°	1724.1	10.8
70°-80°	1459.6	9.1
80°-90°	1165.1	7.3
90°-100°	989.4	6.2
100°-110°	881.5	5.5
110°-120°	750.7	4.7
120°-130°	596.3	3.7
130°-140°	423.0	2.6
140°-150°	252.6	1.6
150°-160°	117.8	0.7
160°-170°	28.0	0.2
170°-180°	0.0	0.0
0°-30°	2317.3	14.5
0°-40°	3932.3	24.6
0°-60°	7617.0	47.6
0°-90°	11965.8	74.8
90°-120°	2621.6	16.4
90°-150°	3893.5	24.3
90°-180°	4039.0	25.2
0°-180°	16005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2780	2780	2780	2780	2780	
5°	2798	2776	2805	2805	2805	266
15°	2696	2719	2817	2869	2888	761
25°	2498	2580	2760	2858	2904	1150
35°	2207	2370	2626	2787	2855	1382
45°	1858	2110	2422	2633	2723	1443
55°	1504	1757	2148	2410	2516	1321
65°	1030	1373	1817	2128	2249	1022
75°	542	959	1471	1832	1960	576
85°	139	617	1173	1553	1685	152
90°	7	504	1049	1429	1561	11
95°	0	474	1016	1387	1515	1
105°	0	436	926	1275	1400	0
115°	0	406	842	1147	1260	0
125°	0	350	748	1012	1109	0
135°	0	260	602	854	933	1
145°	0	170	421	639	730	2
155°	4	106	260	391	485	2
165°	4	57	117	161	229	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284491

CATALOG NUMBER: 8SNLED-LD5-200HL-SLW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2779.8	2779.8	2779.8	2779.8	2779.8
2.5°	2805.1	2775.7	2790.9	2786.9	2771.6
5°	2798.0	2775.7	2805.1	2805.1	2805.1
7.5°	2782.8	2767.6	2809.2	2824.4	2828.5
10°	2760.5	2760.5	2817.3	2839.6	2846.7
12.5°	2730.0	2741.2	2817.3	2850.8	2869.1
15°	2696.5	2718.9	2817.3	2869.1	2888.4
17.5°	2654.9	2692.5	2809.2	2873.1	2899.5
20°	2606.2	2663.1	2798.0	2873.1	2907.6
22.5°	2553.4	2625.5	2782.8	2866.0	2907.6
25°	2497.6	2579.8	2760.5	2857.9	2903.6
27.5°	2429.6	2535.2	2734.1	2846.7	2899.5
30°	2361.6	2482.4	2703.7	2831.5	2888.4
32.5°	2286.5	2425.6	2666.1	2809.2	2873.1
35°	2207.4	2369.8	2625.5	2786.9	2854.9
37.5°	2128.2	2301.8	2583.9	2756.4	2831.5
40°	2041.9	2233.8	2535.2	2718.9	2798.0
42.5°	1978.0	2162.7	2482.4	2681.3	2764.5
45°	1858.3	2109.9	2421.5	2632.6	2722.9
47.5°	1763.9	2008.5	2361.6	2583.9	2677.3
50°	1704.0	1925.2	2290.6	2527.1	2625.5
52.5°	1560.9	1869.4	2222.6	2471.2	2575.8
55°	1504.1	1756.8	2147.5	2410.3	2515.9
57.5°	1349.8	1677.6	2072.4	2343.4	2452.0
60°	1274.7	1568.0	1989.2	2275.4	2388.0
62.5°	1158.0	1474.6	1907.0	2200.3	2317.0
65°	1030.1	1373.1	1816.6	2128.2	2249.0
67.5°	910.4	1271.6	1730.4	2053.1	2181.0
70°	793.6	1166.1	1640.1	1978.0	2105.9
72.5°	657.6	1060.6	1552.8	1907.0	2034.8
75°	541.9	959.1	1470.6	1831.9	1959.7
77.5°	428.3	861.6	1391.4	1763.9	1891.7
80°	323.7	767.3	1312.2	1692.8	1823.7
82.5°	225.3	688.1	1241.2	1624.8	1752.7
85°	139.0	617.0	1173.2	1552.8	1684.7
87.5°	63.9	553.1	1105.2	1485.8	1620.8
90°	7.1	504.4	1049.4	1429.0	1560.9
92.5°	4.1	489.2	1027.1	1402.6	1530.4
95°	0.0	474.0	1015.9	1387.3	1515.2
97.5°	0.0	458.7	989.5	1365.0	1497.0
100°	0.0	451.6	970.2	1331.5	1459.4
102.5°	0.0	440.5	947.9	1301.1	1429.0
105°	0.0	436.4	925.6	1274.7	1399.5
107.5°	0.0	428.3	902.2	1241.2	1365.0
110°	0.0	421.2	884.0	1210.8	1331.5



TEST NUMBER: P284491

CATALOG NUMBER: 8SNLED-LD5-200HL-SLW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	414.1	864.7	1181.3	1297.0
115°	0.0	406.0	842.4	1146.8	1259.5
117.5°	0.0	394.8	820.0	1113.3	1226.0
120°	0.0	379.6	797.7	1082.9	1188.4
122.5°	0.0	364.3	774.4	1045.3	1146.8
125°	0.0	350.1	748.0	1011.8	1109.3
127.5°	0.0	326.8	718.5	974.3	1064.6
130°	0.0	304.5	681.0	936.7	1023.0
132.5°	4.1	282.1	643.4	895.1	981.4
135°	0.0	259.8	601.8	853.5	932.7
137.5°	0.0	240.5	556.2	808.9	884.0
140°	0.0	218.2	511.5	756.1	835.2
142.5°	0.0	191.8	466.8	699.3	782.5
145°	0.0	169.5	421.2	639.4	729.7
147.5°	4.1	150.2	379.6	575.4	672.9
150°	4.1	135.0	339.0	511.5	608.9
152.5°	4.1	120.8	297.4	451.6	545.0
155°	4.1	105.5	259.8	390.7	485.1
157.5°	4.1	90.3	218.2	330.9	421.2
160°	4.1	79.2	180.6	278.1	361.3
162.5°	4.1	68.0	147.2	218.2	297.4
165°	4.1	56.8	116.7	161.4	229.4
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)