

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: P284764

Luminaire Tested: **8SNLED-LD5-200HL-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: P284764
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-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: 14923.0 lumens
Efficiency: N/A
Efficacy: 94.4 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

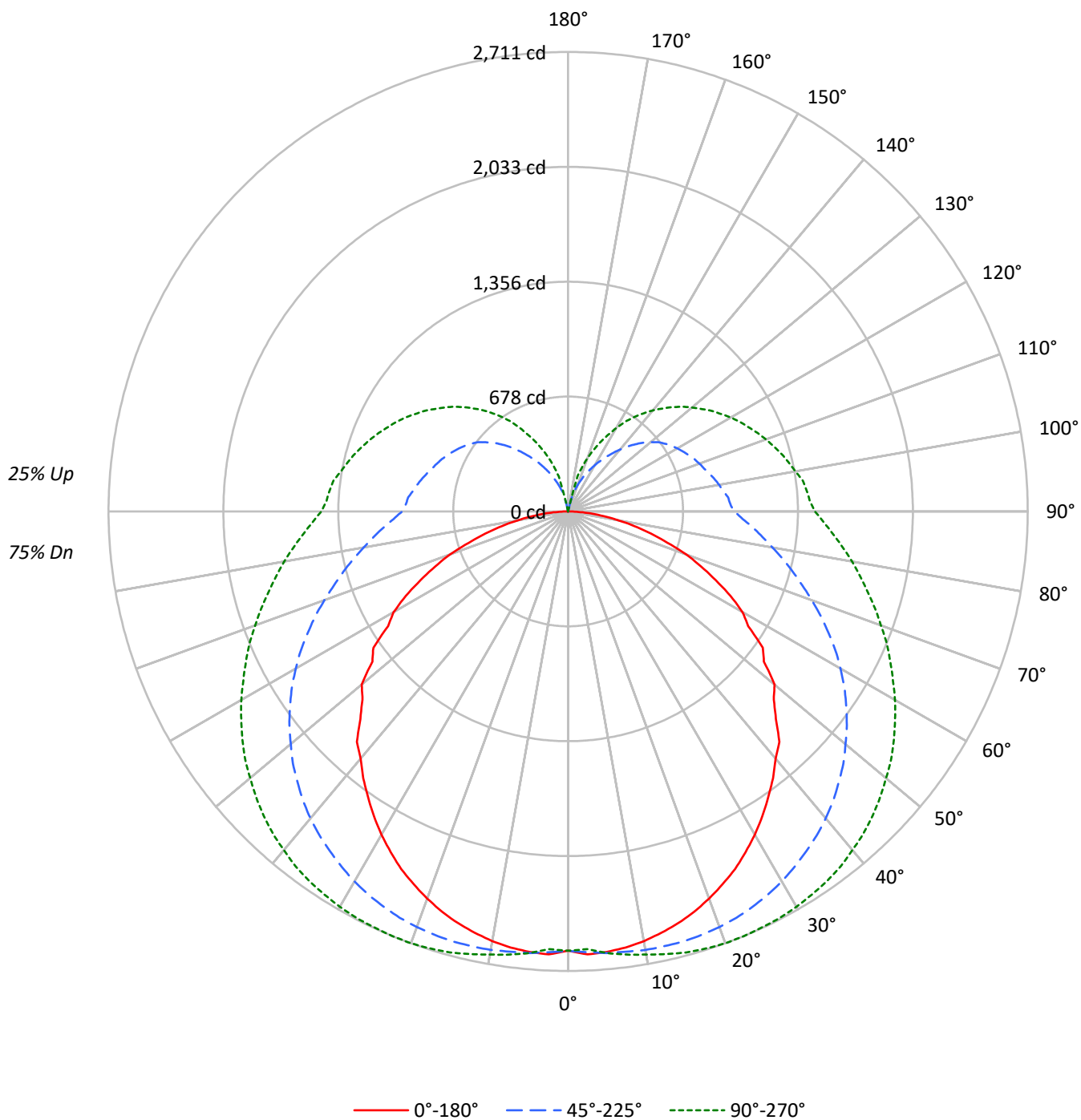
Input Watts (W): 158
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284764

CATALOG NUMBER: 8SNLED-LD5-200HL-SLW-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284764

CATALOG NUMBER: 8SNLED-LD5-200HL-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°	10472	10472	10472
5°	10567	10358	10271
10°	10531	10277	10214
15°	10473	10231	10236
20°	10389	10192	10256
25°	10307	10165	10272
30°	10182	10142	10327
35°	10042	10116	10397
40°	9912	10120	10465
45°	9748	10107	10548
50°	9804	10098	10632
55°	9663	10112	10758
60°	9351	10135	10904
65°	8885	10166	11107
70°	8382	10267	11419
75°	7454	10535	11882
80°	6453	11086	12646
85°	5098	12190	13764



TEST NUMBER: P284764

CATALOG NUMBER: 8SNLED-LD5-200HL-SLW-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	1.7
10°-20°	738.2	4.9
20°-30°	1173.3	7.9
30°-40°	1505.9	10.1
40°-50°	1700.5	11.4
50°-60°	1735.1	11.6
60°-70°	1607.5	10.8
70°-80°	1360.9	9.1
80°-90°	1086.3	7.3
90°-100°	922.5	6.2
100°-110°	821.9	5.5
110°-120°	700.0	4.7
120°-130°	556.0	3.7
130°-140°	394.4	2.6
140°-150°	235.5	1.6
150°-160°	109.8	0.7
160°-170°	26.1	0.2
170°-180°	0.0	0.0
0°-30°	2160.6	14.5
0°-40°	3666.5	24.6
0°-60°	7102.1	47.6
0°-90°	11156.9	74.8
90°-120°	2444.3	16.4
90°-150°	3630.2	24.3
90°-180°	3766.0	25.2
0°-180°	14923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2592	2592	2592	2592	2592	
5°	2609	2588	2616	2616	2616	248
15°	2514	2535	2627	2675	2693	709
25°	2329	2405	2574	2665	2707	1072
35°	2058	2210	2448	2598	2662	1288
45°	1733	1967	2258	2455	2539	1345
55°	1402	1638	2002	2247	2346	1231
65°	960	1280	1694	1984	2097	953
75°	505	894	1371	1708	1827	538
85°	130	575	1094	1448	1571	142
90°	7	470	978	1332	1455	10
95°	0	442	947	1294	1413	1
105°	0	407	863	1188	1305	0
115°	0	378	785	1069	1174	0
125°	0	326	697	943	1034	0
135°	0	242	561	796	870	1
145°	0	158	393	596	680	1
155°	4	98	242	364	452	2
165°	4	53	109	150	214	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284764

CATALOG NUMBER: 8SNLED-LD5-200HL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2591.8	2591.8	2591.8	2591.8	2591.8
2.5°	2615.5	2588.1	2602.3	2598.5	2584.3
5°	2608.9	2588.1	2615.5	2615.5	2615.5
7.5°	2594.7	2580.5	2619.3	2633.5	2637.3
10°	2573.9	2573.9	2626.9	2647.7	2654.3
12.5°	2545.5	2555.9	2626.9	2658.1	2675.1
15°	2514.2	2535.1	2626.9	2675.1	2693.1
17.5°	2475.5	2510.5	2619.3	2678.9	2703.5
20°	2430.0	2483.0	2608.9	2678.9	2711.1
22.5°	2380.8	2448.0	2594.7	2672.3	2711.1
25°	2328.8	2405.4	2573.9	2664.7	2707.3
27.5°	2265.4	2363.8	2549.3	2654.3	2703.5
30°	2202.0	2314.6	2520.9	2640.1	2693.1
32.5°	2132.0	2261.6	2485.9	2619.3	2678.9
35°	2058.1	2209.5	2448.0	2598.5	2661.9
37.5°	1984.3	2146.1	2409.2	2570.1	2640.1
40°	1903.9	2082.7	2363.8	2535.1	2608.9
42.5°	1844.3	2016.5	2314.6	2500.1	2577.6
45°	1732.6	1967.3	2257.8	2454.6	2538.9
47.5°	1644.6	1872.7	2202.0	2409.2	2496.3
50°	1588.8	1795.1	2135.7	2356.2	2448.0
52.5°	1455.4	1743.0	2072.3	2304.2	2401.6
55°	1402.4	1638.0	2002.3	2247.4	2345.8
57.5°	1258.5	1564.2	1932.3	2184.9	2286.2
60°	1188.5	1462.0	1854.7	2121.5	2226.6
62.5°	1079.7	1374.9	1778.0	2051.5	2160.3
65°	960.5	1280.3	1693.8	1984.3	2096.9
67.5°	848.8	1185.7	1613.4	1914.3	2033.5
70°	740.0	1087.3	1529.2	1844.3	1963.5
72.5°	613.2	988.9	1447.8	1778.0	1897.3
75°	505.3	894.2	1371.2	1708.0	1827.3
77.5°	399.3	803.4	1297.3	1644.6	1763.9
80°	301.9	715.4	1223.5	1578.4	1700.5
82.5°	210.1	641.6	1157.3	1515.0	1634.2
85°	129.6	575.3	1093.9	1447.8	1570.8
87.5°	59.6	515.7	1030.5	1385.3	1511.2
90°	6.6	470.3	978.4	1332.4	1455.4
92.5°	3.8	456.1	957.6	1307.8	1427.0
95°	0.0	441.9	947.2	1293.6	1412.8
97.5°	0.0	427.7	922.6	1272.7	1395.8
100°	0.0	421.1	904.6	1241.5	1360.7
102.5°	0.0	410.7	883.8	1213.1	1332.4
105°	0.0	406.9	863.0	1188.5	1304.9
107.5°	0.0	399.3	841.2	1157.3	1272.7
110°	0.0	392.7	824.2	1128.9	1241.5



TEST NUMBER: P284764

CATALOG NUMBER: 8SNLED-LD5-200HL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	386.1	806.2	1101.5	1209.3
115°	0.0	378.5	785.4	1069.3	1174.3
117.5°	0.0	368.1	764.6	1038.1	1143.1
120°	0.0	353.9	743.8	1009.7	1108.1
122.5°	0.0	339.7	722.0	974.7	1069.3
125°	0.0	326.5	697.4	943.4	1034.3
127.5°	0.0	304.7	670.0	908.4	992.6
130°	0.0	283.9	634.9	873.4	953.8
132.5°	3.8	263.1	599.9	834.6	915.0
135°	0.0	242.2	561.1	795.8	869.6
137.5°	0.0	224.3	518.6	754.2	824.2
140°	0.0	203.4	476.9	705.0	778.8
142.5°	0.0	178.8	435.3	652.0	729.6
145°	0.0	158.0	392.7	596.2	680.4
147.5°	3.8	140.0	353.9	536.5	627.4
150°	3.8	125.9	316.1	476.9	567.8
152.5°	3.8	112.6	277.3	421.1	508.1
155°	3.8	98.4	242.2	364.3	452.3
157.5°	3.8	84.2	203.4	308.5	392.7
160°	3.8	73.8	168.4	259.3	336.9
162.5°	3.8	63.4	137.2	203.4	277.3
165°	3.8	53.0	108.8	150.5	213.9
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)