

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: P284530

Luminaire Tested: **8SNLED-LD5-200HL-SLW-UNV-L835-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: P284530
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-L835-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: 16281.0 lumens
Efficiency: N/A
Efficacy: 103.0 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

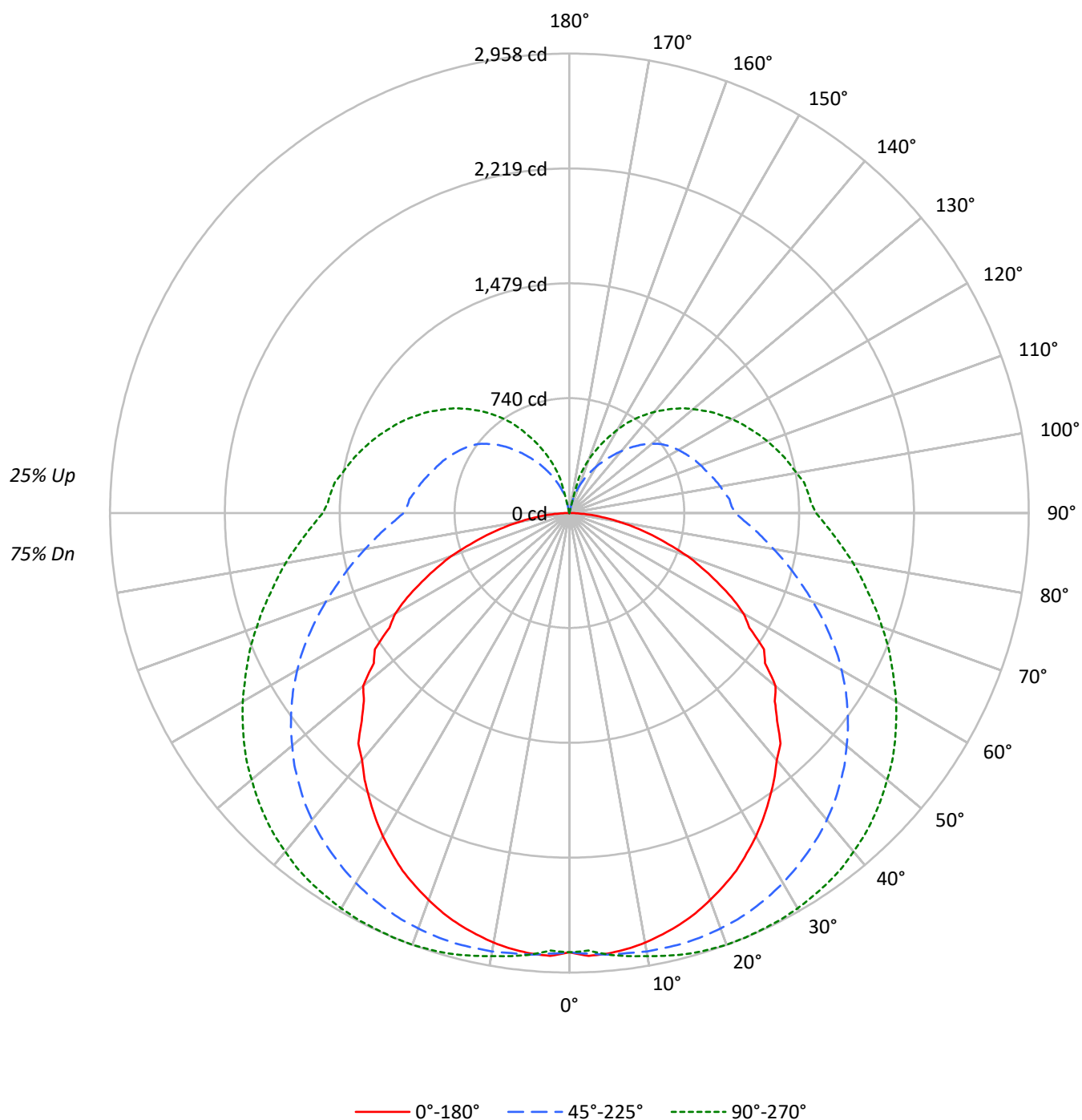
Input Watts (W): 158
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11425	11425	11425
5°	11529	11300	11206
10°	11490	11212	11143
15°	11426	11161	11167
20°	11335	11120	11189
25°	11245	11089	11207
30°	11108	11065	11267
35°	10956	11037	11343
40°	10814	11041	11417
45°	10635	11027	11508
50°	10697	11017	11599
55°	10543	11032	11737
60°	10203	11057	11896
65°	9694	11092	12118
70°	9145	11201	12458
75°	8132	11494	12962
80°	7039	12095	13797
85°	5562	13299	15018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.7	1.7
10°-20°	805.4	4.9
20°-30°	1280.1	7.9
30°-40°	1642.9	10.1
40°-50°	1855.2	11.4
50°-60°	1893.0	11.6
60°-70°	1753.8	10.8
70°-80°	1484.8	9.1
80°-90°	1185.2	7.3
90°-100°	1006.4	6.2
100°-110°	896.7	5.5
110°-120°	763.7	4.7
120°-130°	606.6	3.7
130°-140°	430.3	2.6
140°-150°	256.9	1.6
150°-160°	119.8	0.7
160°-170°	28.5	0.2
170°-180°	0.0	0.0
0°-30°	2357.2	14.5
0°-40°	4000.1	24.6
0°-60°	7748.4	47.6
0°-90°	12172.2	74.8
90°-120°	2666.8	16.4
90°-150°	3960.6	24.3
90°-180°	4109.0	25.2
0°-180°	16281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2828	2828	2828	2828	2828	
5°	2846	2824	2854	2854	2854	270
15°	2743	2766	2866	2919	2938	774
25°	2541	2624	2808	2907	2954	1170
35°	2245	2411	2671	2835	2904	1406
45°	1890	2146	2463	2678	2770	1468
55°	1530	1787	2184	2452	2559	1343
65°	1048	1397	1848	2165	2288	1040
75°	551	976	1496	1864	1994	586
85°	141	628	1193	1580	1714	154
90°	7	513	1068	1454	1588	11
95°	0	482	1033	1411	1541	1
105°	0	444	942	1297	1424	0
115°	0	413	857	1167	1281	0
125°	0	356	761	1029	1128	0
135°	0	264	612	868	949	1
145°	0	172	428	650	742	2
155°	4	107	264	398	494	2
165°	4	58	119	164	233	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284530

CATALOG NUMBER: 8SNLED-LD5-200HL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2827.7	2827.7	2827.7	2827.7	2827.7
2.5°	2853.5	2823.6	2839.1	2834.9	2819.4
5°	2846.3	2823.6	2853.5	2853.5	2853.5
7.5°	2830.8	2815.3	2857.6	2873.1	2877.3
10°	2808.1	2808.1	2865.9	2888.6	2895.8
12.5°	2777.1	2788.5	2865.9	2900.0	2918.6
15°	2743.0	2765.8	2865.9	2918.6	2938.2
17.5°	2700.7	2738.9	2857.6	2922.7	2949.5
20°	2651.2	2709.0	2846.3	2922.7	2957.8
22.5°	2597.5	2670.8	2830.8	2915.5	2957.8
25°	2540.7	2624.3	2808.1	2907.2	2953.7
27.5°	2471.5	2578.9	2781.2	2895.8	2949.5
30°	2402.4	2525.2	2750.3	2880.4	2938.2
32.5°	2326.0	2467.4	2712.1	2857.6	2922.7
35°	2245.4	2410.6	2670.8	2834.9	2904.1
37.5°	2164.9	2341.4	2628.5	2804.0	2880.4
40°	2077.2	2272.3	2578.9	2765.8	2846.3
42.5°	2012.1	2200.0	2525.2	2727.6	2812.2
45°	1890.3	2146.3	2463.3	2678.0	2769.9
47.5°	1794.3	2043.1	2402.4	2628.5	2723.4
50°	1733.4	1958.4	2330.1	2570.6	2670.8
52.5°	1587.8	1901.7	2260.9	2513.9	2620.2
55°	1530.0	1787.1	2184.5	2451.9	2559.3
57.5°	1373.1	1706.5	2108.1	2383.8	2494.2
60°	1296.7	1595.0	2023.5	2314.6	2429.2
62.5°	1178.0	1500.1	1939.9	2238.2	2356.9
65°	1047.9	1396.8	1848.0	2164.9	2287.8
67.5°	926.0	1293.6	1760.2	2088.5	2218.6
70°	807.3	1186.2	1668.3	2012.1	2142.2
72.5°	669.0	1078.8	1579.5	1939.9	2069.9
75°	551.3	975.6	1495.9	1863.5	1993.5
77.5°	435.7	876.5	1415.4	1794.3	1924.4
80°	329.3	780.5	1334.9	1722.0	1855.2
82.5°	229.2	700.0	1262.6	1652.8	1782.9
85°	141.4	627.7	1193.4	1579.5	1713.8
87.5°	65.0	562.6	1124.3	1511.4	1648.7
90°	7.2	513.1	1067.5	1453.6	1587.8
92.5°	4.1	497.6	1044.8	1426.8	1556.8
95°	0.0	482.1	1033.4	1411.3	1541.4
97.5°	0.0	466.6	1006.6	1388.6	1522.8
100°	0.0	459.4	987.0	1354.5	1484.6
102.5°	0.0	448.1	964.2	1323.5	1453.6
105°	0.0	443.9	941.5	1296.7	1423.7
107.5°	0.0	435.7	917.8	1262.6	1388.6
110°	0.0	428.4	899.2	1231.6	1354.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	421.2	879.6	1201.7	1319.4
115°	0.0	413.0	856.9	1166.6	1281.2
117.5°	0.0	401.6	834.2	1132.5	1247.1
120°	0.0	386.1	811.5	1101.6	1208.9
122.5°	0.0	370.6	787.7	1063.4	1166.6
125°	0.0	356.2	760.9	1029.3	1128.4
127.5°	0.0	332.4	730.9	991.1	1083.0
130°	0.0	309.7	692.7	952.9	1040.6
132.5°	4.1	287.0	654.5	910.6	998.3
135°	0.0	264.3	612.2	868.2	948.8
137.5°	0.0	244.7	565.7	822.8	899.2
140°	0.0	222.0	520.3	769.1	849.7
142.5°	0.0	195.1	474.9	711.3	796.0
145°	0.0	172.4	428.4	650.4	742.3
147.5°	4.1	152.8	386.1	585.4	684.5
150°	4.1	137.3	344.8	520.3	619.4
152.5°	4.1	122.9	302.5	459.4	554.4
155°	4.1	107.4	264.3	397.5	493.5
157.5°	4.1	91.9	222.0	336.6	428.4
160°	4.1	80.5	183.8	282.9	367.5
162.5°	4.1	69.2	149.7	222.0	302.5
165°	4.1	57.8	118.7	164.1	233.3
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)