

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: P284529

Luminaire Tested: **8SNLED-LD5-170HL-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: P284529
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-LD5-170HL-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: 13723.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

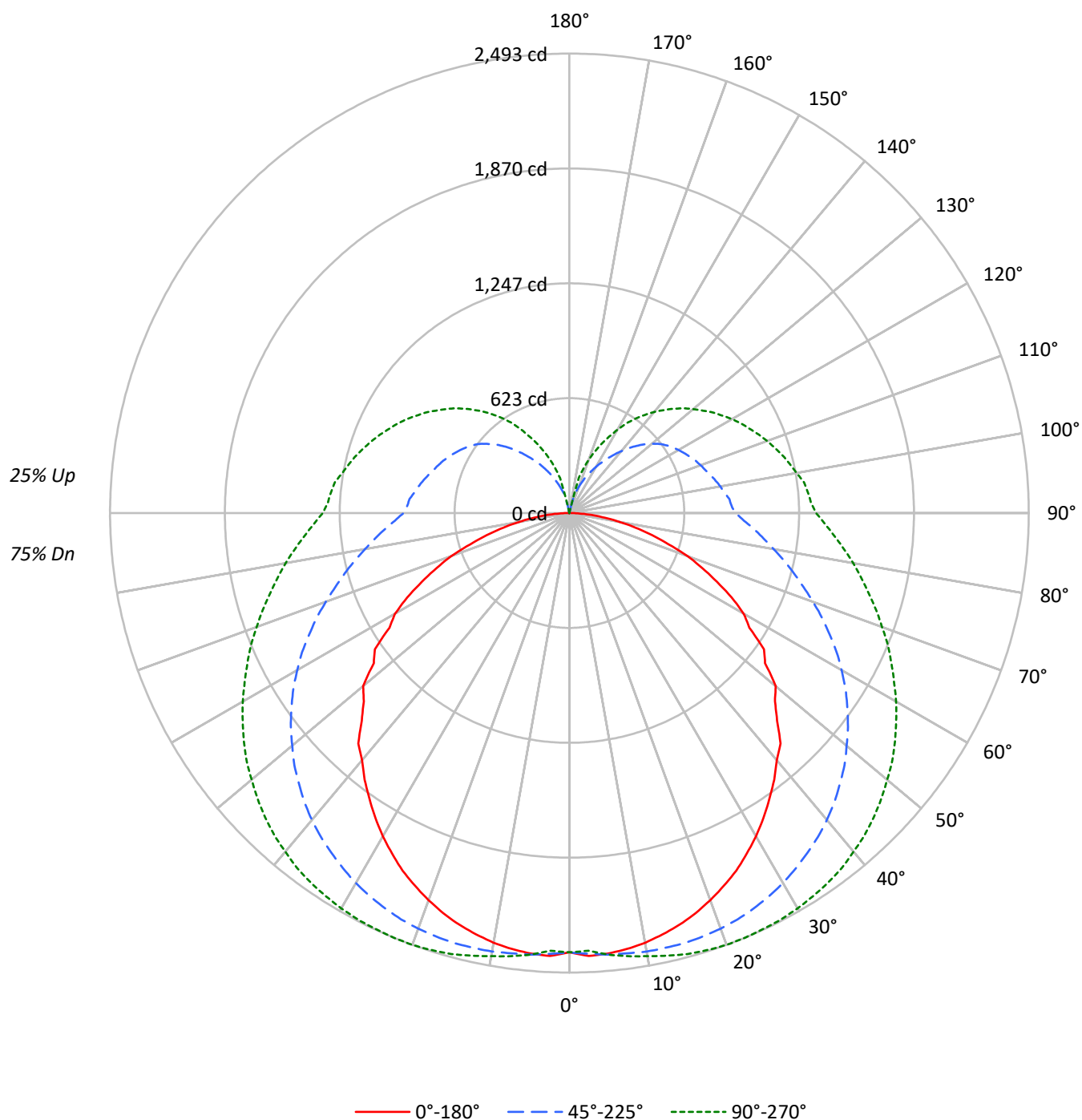
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9630	9630	9630
5°	9717	9525	9445
10°	9684	9450	9393
15°	9631	9408	9413
20°	9554	9373	9431
25°	9478	9347	9446
30°	9363	9327	9496
35°	9234	9303	9561
40°	9115	9306	9623
45°	8964	9295	9700
50°	9016	9286	9777
55°	8886	9299	9893
60°	8599	9320	10027
65°	8170	9349	10214
70°	7708	9441	10501
75°	6855	9688	10926
80°	5934	10194	11629
85°	4689	11209	12658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	1.7
10°-20°	678.9	4.9
20°-30°	1079.0	7.9
30°-40°	1384.8	10.1
40°-50°	1563.7	11.4
50°-60°	1595.6	11.6
60°-70°	1478.2	10.8
70°-80°	1251.5	9.1
80°-90°	999.0	7.3
90°-100°	848.3	6.2
100°-110°	755.8	5.5
110°-120°	643.7	4.7
120°-130°	511.3	3.7
130°-140°	362.7	2.6
140°-150°	216.6	1.6
150°-160°	101.0	0.7
160°-170°	24.0	0.2
170°-180°	0.0	0.0
0°-30°	1986.9	14.5
0°-40°	3371.6	24.6
0°-60°	6531.0	47.6
0°-90°	10259.7	74.8
90°-120°	2247.8	16.4
90°-150°	3338.3	24.3
90°-180°	3463.0	25.2
0°-180°	13723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2383	2383	2383	2383	2383	
5°	2399	2380	2405	2405	2405	228
15°	2312	2331	2416	2460	2476	652
25°	2142	2212	2367	2450	2490	986
35°	1893	2032	2251	2390	2448	1185
45°	1593	1809	2076	2257	2335	1237
55°	1290	1506	1841	2067	2157	1132
65°	883	1177	1558	1825	1928	877
75°	465	822	1261	1571	1680	494
85°	119	529	1006	1331	1444	130
90°	6	432	900	1225	1338	10
95°	0	406	871	1190	1299	0
105°	0	374	794	1093	1200	0
115°	0	348	722	983	1080	0
125°	0	300	641	868	951	0
135°	0	223	516	732	800	1
145°	0	145	361	548	626	1
155°	4	90	223	335	416	2
165°	4	49	100	138	197	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°	2383.4	2383.4	2383.4	2383.4	2383.4
2.5°	2405.2	2379.9	2393.0	2389.5	2376.5
5°	2399.1	2379.9	2405.2	2405.2	2405.2
7.5°	2386.0	2373.0	2408.7	2421.7	2425.2
10°	2366.9	2366.9	2415.6	2434.8	2440.9
12.5°	2340.8	2350.4	2415.6	2444.3	2460.0
15°	2312.1	2331.2	2415.6	2460.0	2476.5
17.5°	2276.4	2308.6	2408.7	2463.5	2486.1
20°	2234.6	2283.4	2399.1	2463.5	2493.1
22.5°	2189.4	2251.2	2386.0	2457.4	2493.1
25°	2141.5	2212.0	2366.9	2450.4	2489.6
27.5°	2083.2	2173.7	2344.3	2440.9	2486.1
30°	2024.9	2128.5	2318.2	2427.8	2476.5
32.5°	1960.5	2079.7	2286.0	2408.7	2463.5
35°	1892.6	2031.9	2251.2	2389.5	2447.8
37.5°	1824.8	1973.6	2215.5	2363.4	2427.8
40°	1750.8	1915.3	2173.7	2331.2	2399.1
42.5°	1696.0	1854.4	2128.5	2299.0	2370.4
45°	1593.3	1809.1	2076.3	2257.2	2334.7
47.5°	1512.4	1722.1	2024.9	2215.5	2295.5
50°	1461.0	1650.7	1964.0	2166.8	2251.2
52.5°	1338.3	1602.9	1905.7	2118.9	2208.5
55°	1289.6	1506.3	1841.3	2066.7	2157.2
57.5°	1157.3	1438.4	1776.9	2009.2	2102.4
60°	1092.9	1344.4	1705.6	1950.9	2047.5
62.5°	992.9	1264.4	1635.1	1886.6	1986.6
65°	883.2	1177.4	1557.6	1824.8	1928.3
67.5°	780.6	1090.3	1483.7	1760.4	1870.0
70°	680.5	999.8	1406.2	1696.0	1805.6
72.5°	563.9	909.3	1331.4	1635.1	1744.7
75°	464.7	822.3	1260.9	1570.7	1680.3
77.5°	367.2	738.8	1193.0	1512.4	1622.0
80°	277.6	657.9	1125.1	1451.5	1563.7
82.5°	193.2	590.0	1064.2	1393.2	1502.8
85°	119.2	529.1	1005.9	1331.4	1444.5
87.5°	54.8	474.2	947.6	1273.9	1389.7
90°	6.1	432.5	899.8	1225.2	1338.3
92.5°	3.5	419.4	880.6	1202.6	1312.2
95°	0.0	406.4	871.1	1189.5	1299.2
97.5°	0.0	393.3	848.4	1170.4	1283.5
100°	0.0	387.2	831.9	1141.7	1251.3
102.5°	0.0	377.7	812.7	1115.6	1225.2
105°	0.0	374.2	793.6	1092.9	1200.0
107.5°	0.0	367.2	773.6	1064.2	1170.4
110°	0.0	361.1	757.9	1038.1	1141.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	355.0	741.4	1012.9	1112.1
115°	0.0	348.1	722.3	983.3	1079.9
117.5°	0.0	338.5	703.1	954.6	1051.2
120°	0.0	325.4	684.0	928.5	1019.0
122.5°	0.0	312.4	663.9	896.3	983.3
125°	0.0	300.2	641.3	867.6	951.1
127.5°	0.0	280.2	616.1	835.4	912.8
130°	0.0	261.1	583.9	803.2	877.1
132.5°	3.5	241.9	551.7	767.5	841.5
135°	0.0	222.8	516.0	731.8	799.7
137.5°	0.0	206.2	476.9	693.5	757.9
140°	0.0	187.1	438.6	648.3	716.2
142.5°	0.0	164.5	400.3	599.6	670.9
145°	0.0	145.3	361.1	548.2	625.7
147.5°	3.5	128.8	325.4	493.4	576.9
150°	3.5	115.7	290.6	438.6	522.1
152.5°	3.5	103.6	255.0	387.2	467.3
155°	3.5	90.5	222.8	335.0	415.9
157.5°	3.5	77.4	187.1	283.7	361.1
160°	3.5	67.9	154.9	238.4	309.8
162.5°	3.5	58.3	126.2	187.1	255.0
165°	3.5	48.7	100.1	138.4	196.7
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)