

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: P284725

Luminaire Tested: **8SNLED-LD5-200HL-SLW-UNV-L940-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: P284725
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-L940-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: 13999.0 lumens
Efficiency: N/A
Efficacy: 88.6 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

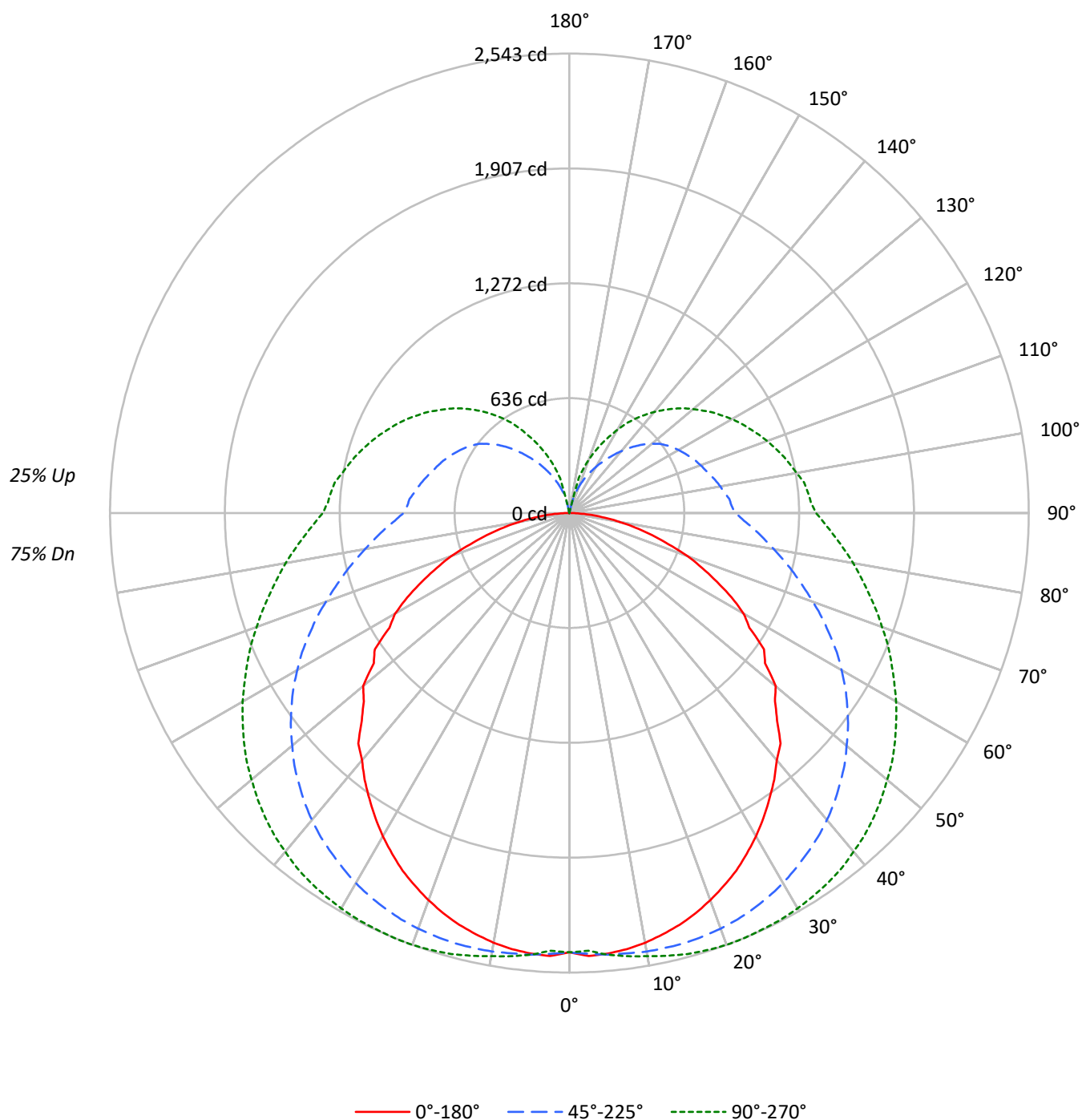
Input Watts (W): 158
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9824	9824	9824
5°	9913	9717	9635
10°	9879	9640	9581
15°	9825	9597	9602
20°	9746	9561	9621
25°	9669	9535	9636
30°	9551	9514	9687
35°	9420	9490	9753
40°	9298	9493	9816
45°	9144	9481	9895
50°	9197	9473	9973
55°	9065	9486	10092
60°	8772	9507	10229
65°	8335	9537	10419
70°	7863	9631	10712
75°	6992	9883	11145
80°	6053	10400	11863
85°	4783	11436	12913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	1.7
10°-20°	692.5	4.9
20°-30°	1100.7	7.9
30°-40°	1412.6	10.1
40°-50°	1595.2	11.4
50°-60°	1627.7	11.6
60°-70°	1508.0	10.8
70°-80°	1276.7	9.1
80°-90°	1019.1	7.3
90°-100°	865.4	6.2
100°-110°	771.0	5.5
110°-120°	656.6	4.7
120°-130°	521.5	3.7
130°-140°	370.0	2.6
140°-150°	220.9	1.6
150°-160°	103.0	0.7
160°-170°	24.5	0.2
170°-180°	0.0	0.0
0°-30°	2026.8	14.5
0°-40°	3439.4	24.6
0°-60°	6662.3	47.6
0°-90°	10466.1	74.8
90°-120°	2293.0	16.4
90°-150°	3405.5	24.3
90°-180°	3533.0	25.2
0°-180°	13999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2431	2431	2431	2431	2431	
5°	2447	2428	2454	2454	2454	232
15°	2359	2378	2464	2510	2526	665
25°	2185	2256	2414	2500	2540	1006
35°	1931	2073	2296	2438	2497	1209
45°	1625	1846	2118	2303	2382	1262
55°	1316	1537	1878	2108	2201	1155
65°	901	1201	1589	1862	1967	894
75°	474	839	1286	1602	1714	504
85°	122	540	1026	1358	1474	133
90°	6	441	918	1250	1365	10
95°	0	414	889	1214	1325	0
105°	0	382	810	1115	1224	0
115°	0	355	737	1003	1102	0
125°	0	306	654	885	970	0
135°	0	227	526	746	816	1
145°	0	148	368	559	638	1
155°	4	92	227	342	424	2
165°	4	50	102	141	201	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°	2431.4	2431.4	2431.4	2431.4	2431.4
2.5°	2453.6	2427.8	2441.1	2437.6	2424.3
5°	2447.3	2427.8	2453.6	2453.6	2453.6
7.5°	2434.0	2420.7	2457.1	2470.4	2474.0
10°	2414.5	2414.5	2464.2	2483.7	2489.9
12.5°	2387.9	2397.6	2464.2	2493.5	2509.5
15°	2358.6	2378.1	2464.2	2509.5	2526.3
17.5°	2322.2	2355.0	2457.1	2513.0	2536.1
20°	2279.6	2329.3	2447.3	2513.0	2543.2
22.5°	2233.4	2296.4	2434.0	2506.8	2543.2
25°	2184.6	2256.5	2414.5	2499.7	2539.7
27.5°	2125.1	2217.4	2391.4	2489.9	2536.1
30°	2065.6	2171.3	2364.8	2476.6	2526.3
32.5°	1999.9	2121.6	2331.9	2457.1	2513.0
35°	1930.7	2072.7	2296.4	2437.6	2497.1
37.5°	1861.5	2013.3	2260.0	2410.9	2476.6
40°	1786.0	1953.8	2217.4	2378.1	2447.3
42.5°	1730.1	1891.7	2171.3	2345.3	2418.0
45°	1625.3	1845.5	2118.0	2302.6	2381.7
47.5°	1542.8	1756.7	2065.6	2260.0	2341.7
50°	1490.4	1683.9	2003.5	2210.3	2296.4
52.5°	1365.3	1635.1	1944.0	2161.5	2252.9
55°	1315.5	1536.6	1878.3	2108.2	2200.6
57.5°	1180.6	1467.3	1812.6	2049.7	2144.6
60°	1114.9	1371.5	1739.9	1990.2	2088.7
62.5°	1012.8	1289.8	1668.0	1924.5	2026.6
65°	901.0	1201.0	1589.0	1861.5	1967.1
67.5°	796.3	1112.3	1513.5	1795.8	1907.6
70°	694.2	1019.9	1434.5	1730.1	1841.9
72.5°	575.2	927.6	1358.2	1668.0	1779.8
75°	474.0	838.9	1286.3	1602.3	1714.1
77.5°	374.6	753.6	1217.0	1542.8	1654.6
80°	283.2	671.1	1147.8	1480.7	1595.2
82.5°	197.1	601.8	1085.6	1421.2	1533.0
85°	121.6	539.7	1026.2	1358.2	1473.6
87.5°	55.9	483.8	966.7	1299.6	1417.6
90°	6.2	441.2	917.9	1249.9	1365.3
92.5°	3.6	427.9	898.3	1226.8	1338.6
95°	0.0	414.5	888.6	1213.5	1325.3
97.5°	0.0	401.2	865.5	1193.9	1309.3
100°	0.0	395.0	848.6	1164.6	1276.5
102.5°	0.0	385.3	829.1	1138.0	1249.9
105°	0.0	381.7	809.6	1114.9	1224.1
107.5°	0.0	374.6	789.1	1085.6	1193.9
110°	0.0	368.4	773.2	1059.0	1164.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	362.2	756.3	1033.3	1134.5
115°	0.0	355.1	736.8	1003.1	1101.6
117.5°	0.0	345.3	717.2	973.8	1072.3
120°	0.0	332.0	697.7	947.2	1039.5
122.5°	0.0	318.7	677.3	914.3	1003.1
125°	0.0	306.3	654.2	885.0	970.2
127.5°	0.0	285.8	628.5	852.2	931.2
130°	0.0	266.3	595.6	819.3	894.8
132.5°	3.6	246.8	562.8	782.9	858.4
135°	0.0	227.2	526.4	746.5	815.8
137.5°	0.0	210.4	486.4	707.5	773.2
140°	0.0	190.9	447.4	661.3	730.6
142.5°	0.0	167.8	408.3	611.6	684.4
145°	0.0	148.2	368.4	559.2	638.2
147.5°	3.6	131.4	332.0	503.3	588.5
150°	3.6	118.1	296.5	447.4	532.6
152.5°	3.6	105.6	260.1	395.0	476.7
155°	3.6	92.3	227.2	341.8	424.3
157.5°	3.6	79.0	190.9	289.4	368.4
160°	3.6	69.2	158.0	243.2	316.0
162.5°	3.6	59.5	128.7	190.9	260.1
165°	3.6	49.7	102.1	141.1	200.6
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)