

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: P284490

Luminaire Tested: **8SNLED-LD5-170HL-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: P284490
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-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: 13490.0 lumens
Efficiency: N/A
Efficacy: 108.8 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

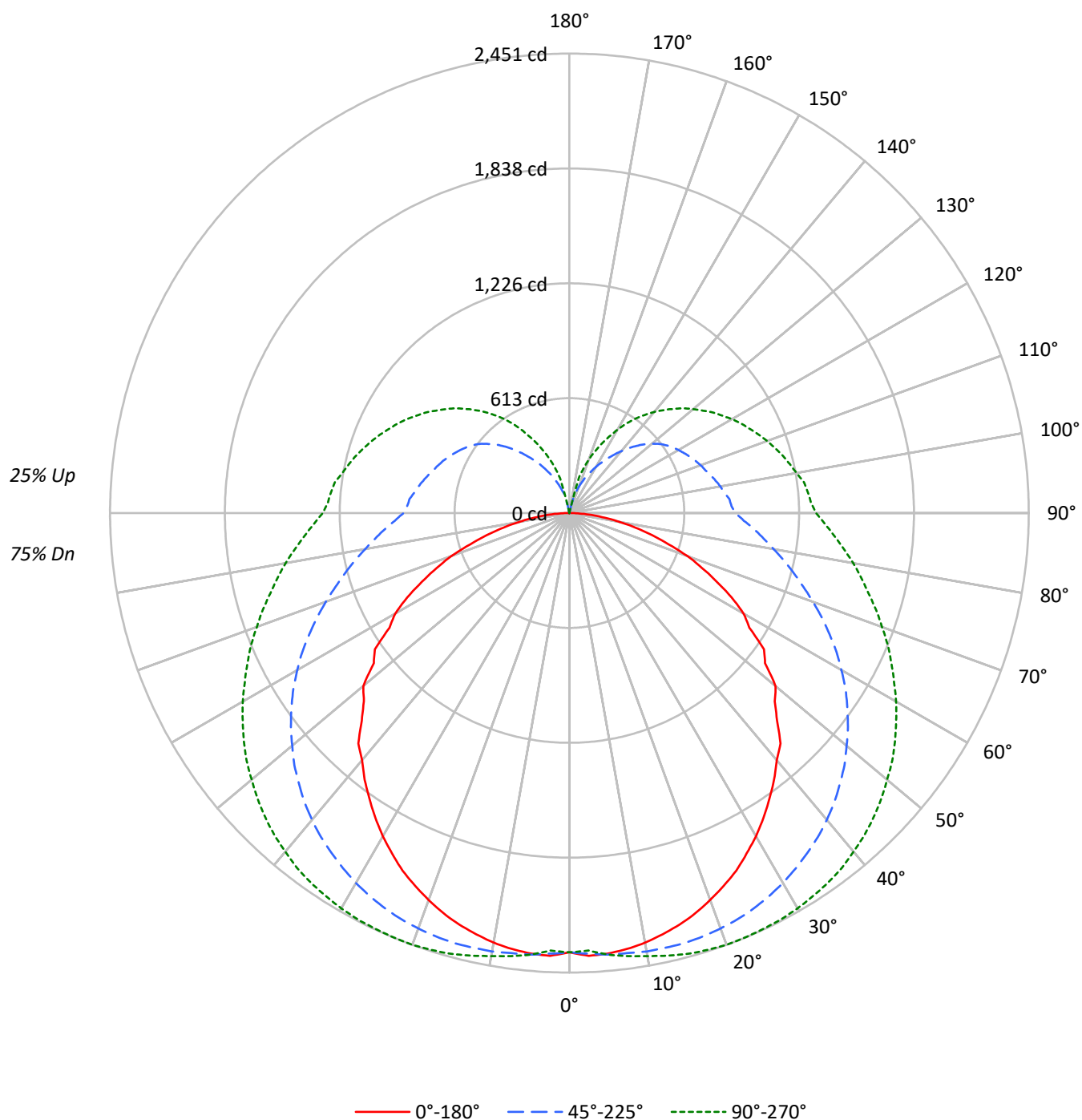
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284490

CATALOG NUMBER: 8SNLED-LD5-170HL-SLW-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284490

CATALOG NUMBER: 8SNLED-LD5-170HL-SLW-UNV-L830-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	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
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9467	9467	9467
5°	9552	9363	9285
10°	9520	9290	9233
15°	9468	9248	9253
20°	9392	9214	9271
25°	9318	9188	9285
30°	9204	9168	9335
35°	9078	9145	9399
40°	8960	9148	9460
45°	8812	9137	9535
50°	8863	9128	9611
55°	8735	9141	9725
60°	8453	9161	9857
65°	8031	9190	10041
70°	7577	9280	10323
75°	6738	9524	10740
80°	5833	10021	11432
85°	4610	11019	12443



TEST NUMBER: P284490

CATALOG NUMBER: 8SNLED-LD5-170HL-SLW-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.2	1.7
10°-20°	667.3	4.9
20°-30°	1060.6	7.9
30°-40°	1361.3	10.1
40°-50°	1537.2	11.4
50°-60°	1568.5	11.6
60°-70°	1453.1	10.8
70°-80°	1230.3	9.1
80°-90°	982.0	7.3
90°-100°	833.9	6.2
100°-110°	742.9	5.5
110°-120°	632.8	4.7
120°-130°	502.6	3.7
130°-140°	356.6	2.6
140°-150°	212.9	1.6
150°-160°	99.3	0.7
160°-170°	23.6	0.2
170°-180°	0.0	0.0
0°-30°	1953.1	14.5
0°-40°	3314.4	24.6
0°-60°	6420.1	47.6
0°-90°	10085.5	74.8
90°-120°	2209.6	16.4
90°-150°	3281.6	24.3
90°-180°	3404.0	25.2
0°-180°	13490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2343	2343	2343	2343	2343	
5°	2358	2340	2364	2364	2364	224
15°	2273	2292	2375	2418	2434	641
25°	2105	2174	2327	2409	2447	969
35°	1860	1997	2213	2349	2406	1165
45°	1566	1778	2041	2219	2295	1216
55°	1268	1481	1810	2032	2121	1113
65°	868	1157	1531	1794	1896	862
75°	457	808	1240	1544	1652	486
85°	117	520	989	1309	1420	128
90°	6	425	884	1204	1316	9
95°	0	400	856	1169	1277	0
105°	0	368	780	1074	1180	0
115°	0	342	710	967	1062	0
125°	0	295	630	853	935	0
135°	0	219	507	719	786	1
145°	0	143	355	539	615	1
155°	3	89	219	329	409	2
165°	3	48	98	136	193	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P284490

CATALOG NUMBER: 8SNLED-LD5-170HL-SLW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2343.0	2343.0	2343.0	2343.0	2343.0
2.5°	2364.3	2339.5	2352.4	2348.9	2336.1
5°	2358.4	2339.5	2364.3	2364.3	2364.3
7.5°	2345.5	2332.7	2367.8	2380.6	2384.0
10°	2326.7	2326.7	2374.6	2393.4	2399.4
12.5°	2301.0	2310.5	2374.6	2402.8	2418.2
15°	2272.8	2291.6	2374.6	2418.2	2434.5
17.5°	2237.7	2269.4	2367.8	2421.7	2443.9
20°	2196.7	2244.6	2358.4	2421.7	2450.7
22.5°	2152.2	2212.9	2345.5	2415.7	2450.7
25°	2105.2	2174.4	2326.7	2408.8	2447.3
27.5°	2047.8	2136.8	2304.5	2399.4	2443.9
30°	1990.5	2092.3	2278.8	2386.6	2434.5
32.5°	1927.2	2044.4	2247.2	2367.8	2421.7
35°	1860.5	1997.4	2212.9	2348.9	2406.3
37.5°	1793.8	1940.1	2177.9	2323.3	2386.6
40°	1721.1	1882.7	2136.8	2291.6	2358.4
42.5°	1667.2	1822.9	2092.3	2260.0	2330.1
45°	1566.2	1778.4	2041.0	2218.9	2295.1
47.5°	1486.7	1692.8	1990.5	2177.9	2256.6
50°	1436.2	1622.7	1930.7	2130.0	2212.9
52.5°	1315.6	1575.7	1873.3	2082.9	2171.0
55°	1267.7	1480.7	1810.0	2031.6	2120.6
57.5°	1137.7	1414.0	1746.7	1975.1	2066.7
60°	1074.4	1321.6	1676.6	1917.8	2012.8
62.5°	976.0	1242.9	1607.3	1854.5	1952.9
65°	868.2	1157.4	1531.2	1793.8	1895.6
67.5°	767.3	1071.8	1458.5	1730.5	1838.3
70°	668.9	982.9	1382.3	1667.2	1775.0
72.5°	554.3	893.9	1308.8	1607.3	1715.1
75°	456.8	808.4	1239.5	1544.0	1651.8
77.5°	361.0	726.2	1172.8	1486.7	1594.5
80°	272.9	646.7	1106.0	1426.8	1537.2
82.5°	189.9	580.0	1046.2	1369.5	1477.3
85°	117.2	520.1	988.8	1308.8	1420.0
87.5°	53.9	466.2	931.5	1252.3	1366.1
90°	6.0	425.1	884.5	1204.4	1315.6
92.5°	3.4	412.3	865.7	1182.2	1290.0
95°	0.0	399.5	856.3	1169.3	1277.1
97.5°	0.0	386.6	834.0	1150.5	1261.7
100°	0.0	380.7	817.8	1122.3	1230.1
102.5°	0.0	371.2	798.9	1096.6	1204.4
105°	0.0	367.8	780.1	1074.4	1179.6
107.5°	0.0	361.0	760.5	1046.2	1150.5
110°	0.0	355.0	745.1	1020.5	1122.3



TEST NUMBER: P284490

CATALOG NUMBER: 8SNLED-LD5-170HL-SLW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	349.0	728.8	995.7	1093.2
115°	0.0	342.2	710.0	966.6	1061.6
117.5°	0.0	332.8	691.2	938.4	1033.3
120°	0.0	319.9	672.3	912.7	1001.7
122.5°	0.0	307.1	652.7	881.1	966.6
125°	0.0	295.1	630.4	852.8	935.0
127.5°	0.0	275.4	605.6	821.2	897.3
130°	0.0	256.6	574.0	789.5	862.2
132.5°	3.4	237.8	542.3	754.5	827.2
135°	0.0	219.0	507.3	719.4	786.1
137.5°	0.0	202.7	468.8	681.8	745.1
140°	0.0	183.9	431.1	637.3	704.0
142.5°	0.0	161.7	393.5	589.4	659.5
145°	0.0	142.9	355.0	538.9	615.0
147.5°	3.4	126.6	319.9	485.0	567.1
150°	3.4	113.8	285.7	431.1	513.2
152.5°	3.4	101.8	250.6	380.7	459.4
155°	3.4	89.0	219.0	329.3	408.9
157.5°	3.4	76.1	183.9	278.9	355.0
160°	3.4	66.7	152.3	234.4	304.5
162.5°	3.4	57.3	124.0	183.9	250.6
165°	3.4	47.9	98.4	136.0	193.3
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)