

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: P284483

Luminaire Tested: **8SNLED-LD5-77SL-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: P284483
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-LD5-77SL-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: 7592.0 lumens
Efficiency: N/A
Efficacy: 110.0 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

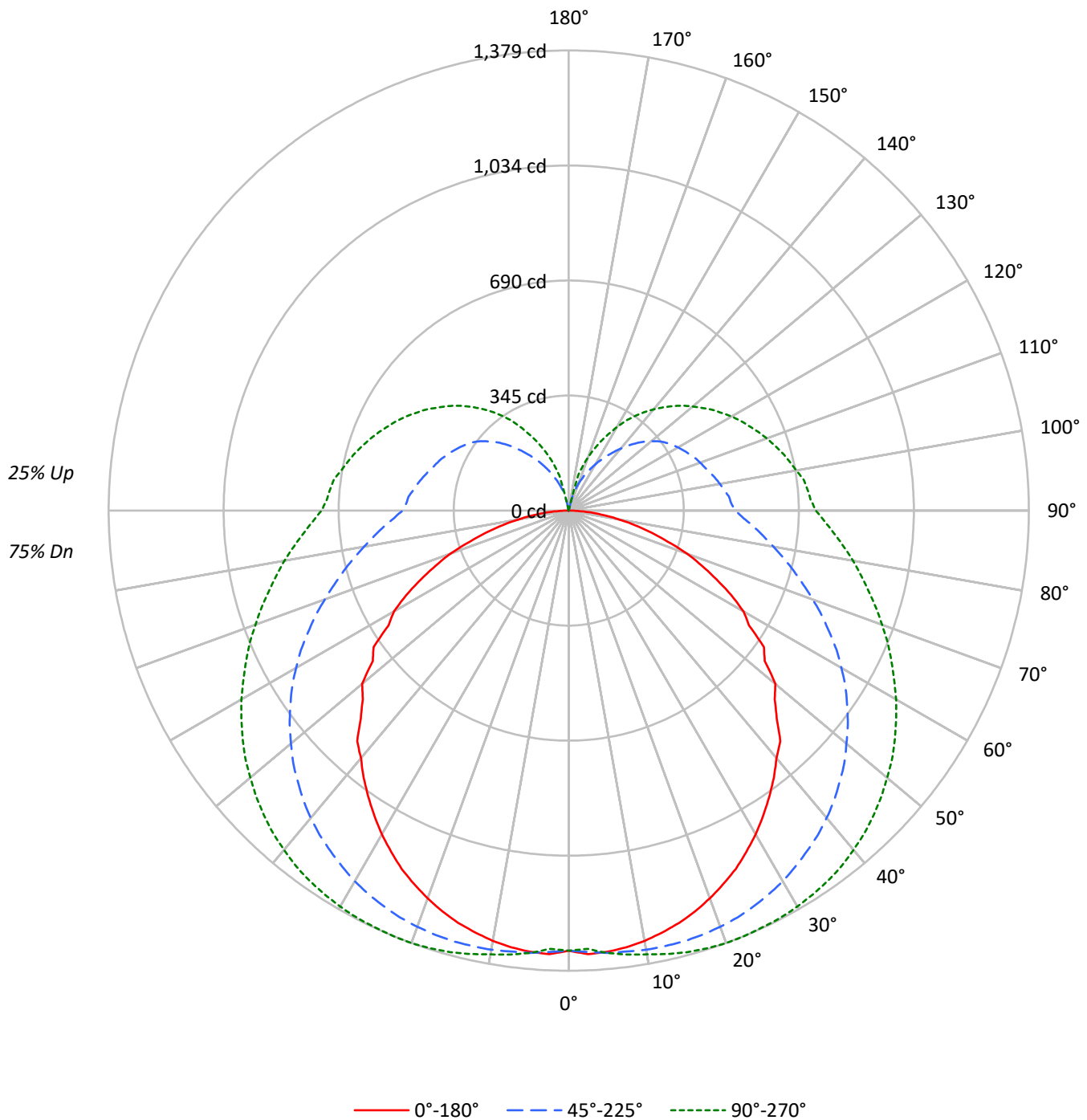
Input Watts (W): 69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5328	5328	5328
5°	5376	5269	5225
10°	5357	5228	5197
15°	5328	5205	5207
20°	5286	5185	5217
25°	5244	5171	5226
30°	5180	5160	5254
35°	5109	5147	5289
40°	5043	5149	5324
45°	4960	5142	5366
50°	4988	5137	5409
55°	4916	5145	5473
60°	4758	5156	5547
65°	4520	5172	5651
70°	4265	5223	5809
75°	3793	5360	6044
80°	3283	5640	6433
85°	2596	6201	7002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	1.7
10°-20°	375.6	4.9
20°-30°	596.9	7.9
30°-40°	766.1	10.1
40°-50°	865.1	11.4
50°-60°	882.7	11.6
60°-70°	817.8	10.8
70°-80°	692.4	9.1
80°-90°	552.7	7.3
90°-100°	469.3	6.2
100°-110°	418.1	5.5
110°-120°	356.1	4.7
120°-130°	282.8	3.7
130°-140°	200.7	2.6
140°-150°	119.8	1.6
150°-160°	55.9	0.7
160°-170°	13.3	0.2
170°-180°	0.0	0.0
0°-30°	1099.2	14.5
0°-40°	1865.3	24.6
0°-60°	3613.2	47.6
0°-90°	5676.0	74.8
90°-120°	1243.5	16.4
90°-150°	1846.9	24.3
90°-180°	1916.0	25.2
0°-180°	7592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1327	1317	1331	1331	1331	126
15°	1279	1290	1336	1361	1370	361
25°	1185	1224	1309	1356	1377	545
35°	1047	1124	1245	1322	1354	655
45°	882	1001	1149	1249	1292	684
55°	714	833	1019	1143	1193	626
65°	489	651	862	1010	1067	485
75°	257	455	698	869	930	274
85°	66	293	556	737	799	72
90°	3	239	498	678	740	5
95°	0	225	482	658	719	0
105°	0	207	439	605	664	0
115°	0	193	400	544	597	0
125°	0	166	355	480	526	0
135°	0	123	286	405	442	0
145°	0	80	200	303	346	1
155°	2	50	123	185	230	1
165°	2	27	55	76	109	0
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°	1318.6	1318.6	1318.6	1318.6	1318.6
2.5°	1330.6	1316.7	1323.9	1322.0	1314.7
5°	1327.3	1316.7	1330.6	1330.6	1330.6
7.5°	1320.0	1312.8	1332.5	1339.8	1341.7
10°	1309.4	1309.4	1336.4	1347.0	1350.4
12.5°	1295.0	1300.3	1336.4	1352.3	1361.0
15°	1279.1	1289.7	1336.4	1361.0	1370.1
17.5°	1259.4	1277.2	1332.5	1362.9	1375.4
20°	1236.3	1263.2	1327.3	1362.9	1379.2
22.5°	1211.2	1245.4	1320.0	1359.5	1379.2
25°	1184.8	1223.7	1309.4	1355.7	1377.3
27.5°	1152.5	1202.6	1296.9	1350.4	1375.4
30°	1120.2	1177.5	1282.5	1343.1	1370.1
32.5°	1084.6	1150.6	1264.7	1332.5	1362.9
35°	1047.1	1124.1	1245.4	1322.0	1354.2
37.5°	1009.5	1091.8	1225.7	1307.5	1343.1
40°	968.6	1059.6	1202.6	1289.7	1327.3
42.5°	938.3	1025.9	1177.5	1271.9	1311.4
45°	881.5	1000.9	1148.6	1248.8	1291.6
47.5°	836.7	952.7	1120.2	1225.7	1270.0
50°	808.3	913.2	1086.5	1198.7	1245.4
52.5°	740.4	886.8	1054.3	1172.2	1221.8
55°	713.5	833.3	1018.7	1143.4	1193.4
57.5°	640.3	795.8	983.0	1111.6	1163.1
60°	604.7	743.8	943.6	1079.3	1132.8
62.5°	549.3	699.5	904.6	1043.7	1099.1
65°	488.6	651.4	861.7	1009.5	1066.8
67.5°	431.8	603.2	820.8	973.9	1034.6
70°	376.5	553.1	778.0	938.3	998.9
72.5°	312.0	503.1	736.6	904.6	965.2
75°	257.1	454.9	697.6	868.9	929.6
77.5°	203.2	408.7	660.0	836.7	897.4
80°	153.6	363.9	622.5	803.0	865.1
82.5°	106.9	326.4	588.8	770.7	831.4
85°	66.0	292.7	556.5	736.6	799.1
87.5°	30.3	262.4	524.3	704.8	768.8
90°	3.4	239.3	497.8	677.8	740.4
92.5°	1.9	232.0	487.2	665.3	726.0
95°	0.0	224.8	481.9	658.1	718.7
97.5°	0.0	217.6	469.4	647.5	710.1
100°	0.0	214.2	460.2	631.6	692.3
102.5°	0.0	208.9	449.6	617.2	677.8
105°	0.0	207.0	439.0	604.7	663.9
107.5°	0.0	203.2	428.0	588.8	647.5
110°	0.0	199.8	419.3	574.3	631.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	196.4	410.2	560.4	615.2
115°	0.0	192.6	399.6	544.0	597.4
117.5°	0.0	187.3	389.0	528.1	581.5
120°	0.0	180.0	378.4	513.7	563.7
122.5°	0.0	172.8	367.3	495.9	544.0
125°	0.0	166.1	354.8	480.0	526.2
127.5°	0.0	155.0	340.8	462.2	505.0
130°	0.0	144.4	323.0	444.3	485.3
132.5°	1.9	133.8	305.2	424.6	465.5
135°	0.0	123.2	285.5	404.9	442.4
137.5°	0.0	114.1	263.8	383.7	419.3
140°	0.0	103.5	242.6	358.7	396.2
142.5°	0.0	91.0	221.4	331.7	371.2
145°	0.0	80.4	199.8	303.3	346.1
147.5°	1.9	71.2	180.0	273.0	319.2
150°	1.9	64.0	160.8	242.6	288.8
152.5°	1.9	57.3	141.1	214.2	258.5
155°	1.9	50.1	123.2	185.3	230.1
157.5°	1.9	42.8	103.5	156.9	199.8
160°	1.9	37.6	85.7	131.9	171.4
162.5°	1.9	32.3	69.8	103.5	141.1
165°	1.9	27.0	55.4	76.5	108.8
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)