

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: P284522

Luminaire Tested: **8SNLED-LD5-77SL-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: P284522
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-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: 7723.0 lumens
Efficiency: N/A
Efficacy: 111.9 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

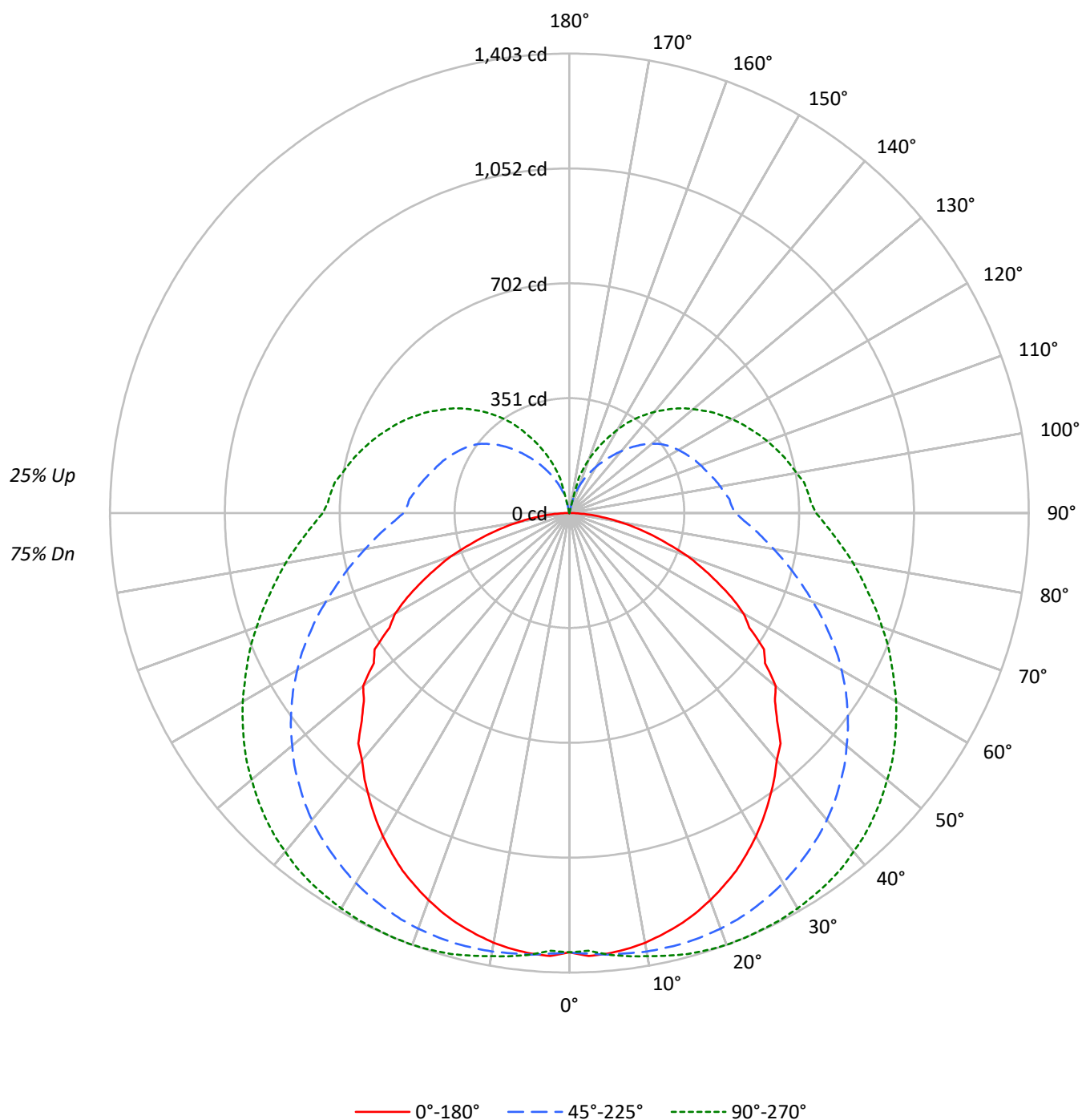
Input Watts (W): 69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284522

CATALOG NUMBER: 8SNLED-LD5-77SL-SLW-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284522

CATALOG NUMBER: 8SNLED-LD5-77SL-SLW-UNV-L835-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	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°	5420	5420	5420
5°	5469	5360	5316
10°	5450	5319	5286
15°	5420	5295	5297
20°	5377	5275	5308
25°	5334	5260	5316
30°	5269	5249	5344
35°	5197	5235	5381
40°	5130	5237	5416
45°	5045	5231	5459
50°	5074	5226	5502
55°	5001	5233	5567
60°	4840	5245	5643
65°	4599	5261	5748
70°	4338	5313	5910
75°	3857	5452	6149
80°	3339	5737	6544
85°	2639	6308	7123



TEST NUMBER: P284522

CATALOG NUMBER: 8SNLED-LD5-77SL-SLW-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	1.7
10°-20°	382.0	4.9
20°-30°	607.2	7.9
30°-40°	779.3	10.1
40°-50°	880.0	11.4
50°-60°	898.0	11.6
60°-70°	831.9	10.8
70°-80°	704.3	9.1
80°-90°	562.2	7.3
90°-100°	477.4	6.2
100°-110°	425.3	5.5
110°-120°	362.2	4.7
120°-130°	287.7	3.7
130°-140°	204.1	2.6
140°-150°	121.9	1.6
150°-160°	56.8	0.7
160°-170°	13.5	0.2
170°-180°	0.0	0.0
0°-30°	1118.2	14.5
0°-40°	1897.5	24.6
0°-60°	3675.5	47.6
0°-90°	5773.9	74.8
90°-120°	1265.0	16.4
90°-150°	1878.7	24.3
90°-180°	1949.0	25.2
0°-180°	7723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1350	1339	1354	1354	1354	128
15°	1301	1312	1360	1384	1394	367
25°	1205	1245	1332	1379	1401	555
35°	1065	1144	1267	1345	1378	667
45°	897	1018	1168	1270	1314	696
55°	726	848	1036	1163	1214	637
65°	497	663	877	1027	1085	493
75°	262	463	710	884	946	278
85°	67	298	566	749	813	73
90°	3	243	506	690	753	5
95°	0	229	490	669	731	0
105°	0	211	447	615	675	0
115°	0	196	406	553	608	0
125°	0	169	361	488	535	0
135°	0	125	290	412	450	0
145°	0	82	203	308	352	1
155°	2	51	125	188	234	1
165°	2	27	56	78	111	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284522

CATALOG NUMBER: 8SNLED-LD5-77SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.3	1341.3	1341.3	1341.3	1341.3
2.5°	1353.6	1339.4	1346.7	1344.8	1337.4
5°	1350.2	1339.4	1353.6	1353.6	1353.6
7.5°	1342.8	1335.5	1355.5	1362.9	1364.8
10°	1332.0	1332.0	1359.5	1370.2	1373.7
12.5°	1317.3	1322.7	1359.5	1375.6	1384.4
15°	1301.2	1312.0	1359.5	1384.4	1393.7
17.5°	1281.1	1299.2	1355.5	1386.4	1399.1
20°	1257.6	1285.0	1350.2	1386.4	1403.0
22.5°	1232.1	1266.9	1342.8	1383.0	1403.0
25°	1205.2	1244.9	1332.0	1379.0	1401.1
27.5°	1172.4	1223.3	1319.3	1373.7	1399.1
30°	1139.6	1197.9	1304.6	1366.3	1393.7
32.5°	1103.3	1170.4	1286.5	1355.5	1386.4
35°	1065.1	1143.5	1266.9	1344.8	1377.6
37.5°	1026.9	1110.7	1246.8	1330.1	1366.3
40°	985.3	1077.9	1223.3	1312.0	1350.2
42.5°	954.5	1043.6	1197.9	1293.8	1334.0
45°	896.7	1018.1	1168.5	1270.3	1313.9
47.5°	851.1	969.2	1139.6	1246.8	1291.9
50°	822.2	929.0	1105.3	1219.4	1266.9
52.5°	753.2	902.1	1072.5	1192.5	1242.9
55°	725.8	847.7	1036.2	1163.1	1214.0
57.5°	651.3	809.5	1000.0	1130.8	1183.2
60°	615.1	756.6	959.8	1097.9	1152.3
62.5°	558.8	711.6	920.2	1061.7	1118.0
65°	497.1	662.6	876.6	1026.9	1085.2
67.5°	439.3	613.6	835.0	990.7	1052.4
70°	383.0	562.7	791.4	954.5	1016.2
72.5°	317.3	511.8	749.3	920.2	981.9
75°	261.5	462.8	709.6	883.9	945.6
77.5°	206.7	415.8	671.4	851.1	912.8
80°	156.2	370.2	633.2	816.9	880.0
82.5°	108.7	332.0	598.9	784.0	845.7
85°	67.1	297.7	566.1	749.3	812.9
87.5°	30.9	266.9	533.3	716.9	782.1
90°	3.4	243.4	506.4	689.5	753.2
92.5°	2.0	236.0	495.6	676.8	738.5
95°	0.0	228.7	490.2	669.4	731.1
97.5°	0.0	221.4	477.5	658.7	722.3
100°	0.0	217.9	468.2	642.5	704.2
102.5°	0.0	212.5	457.4	627.8	689.5
105°	0.0	210.6	446.6	615.1	675.3
107.5°	0.0	206.7	435.4	598.9	658.7
110°	0.0	203.2	426.5	584.2	642.5



TEST NUMBER: P284522

CATALOG NUMBER: 8SNLED-LD5-77SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	199.8	417.2	570.0	625.9
115°	0.0	195.9	406.5	553.4	607.7
117.5°	0.0	190.5	395.7	537.2	591.6
120°	0.0	183.2	384.9	522.5	573.5
122.5°	0.0	175.8	373.7	504.4	553.4
125°	0.0	169.0	360.9	488.2	535.3
127.5°	0.0	157.7	346.7	470.1	513.7
130°	0.0	146.9	328.6	452.0	493.6
132.5°	2.0	136.1	310.5	431.9	473.6
135°	0.0	125.4	290.4	411.9	450.1
137.5°	0.0	116.1	268.4	390.3	426.5
140°	0.0	105.3	246.8	364.8	403.0
142.5°	0.0	92.6	225.3	337.4	377.6
145°	0.0	81.8	203.2	308.5	352.1
147.5°	2.0	72.5	183.2	277.7	324.7
150°	2.0	65.1	163.6	246.8	293.8
152.5°	2.0	58.3	143.5	217.9	263.0
155°	2.0	50.9	125.4	188.5	234.1
157.5°	2.0	43.6	105.3	159.6	203.2
160°	2.0	38.2	87.2	134.2	174.3
162.5°	2.0	32.8	71.0	105.3	143.5
165°	2.0	27.4	56.3	77.9	110.7
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)