

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: P284600

Luminaire Tested: **8SNLED-LD5-77SL-SLW-UNV-L850-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: P284600
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-L850-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: 7854.0 lumens
Efficiency: N/A
Efficacy: 113.8 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

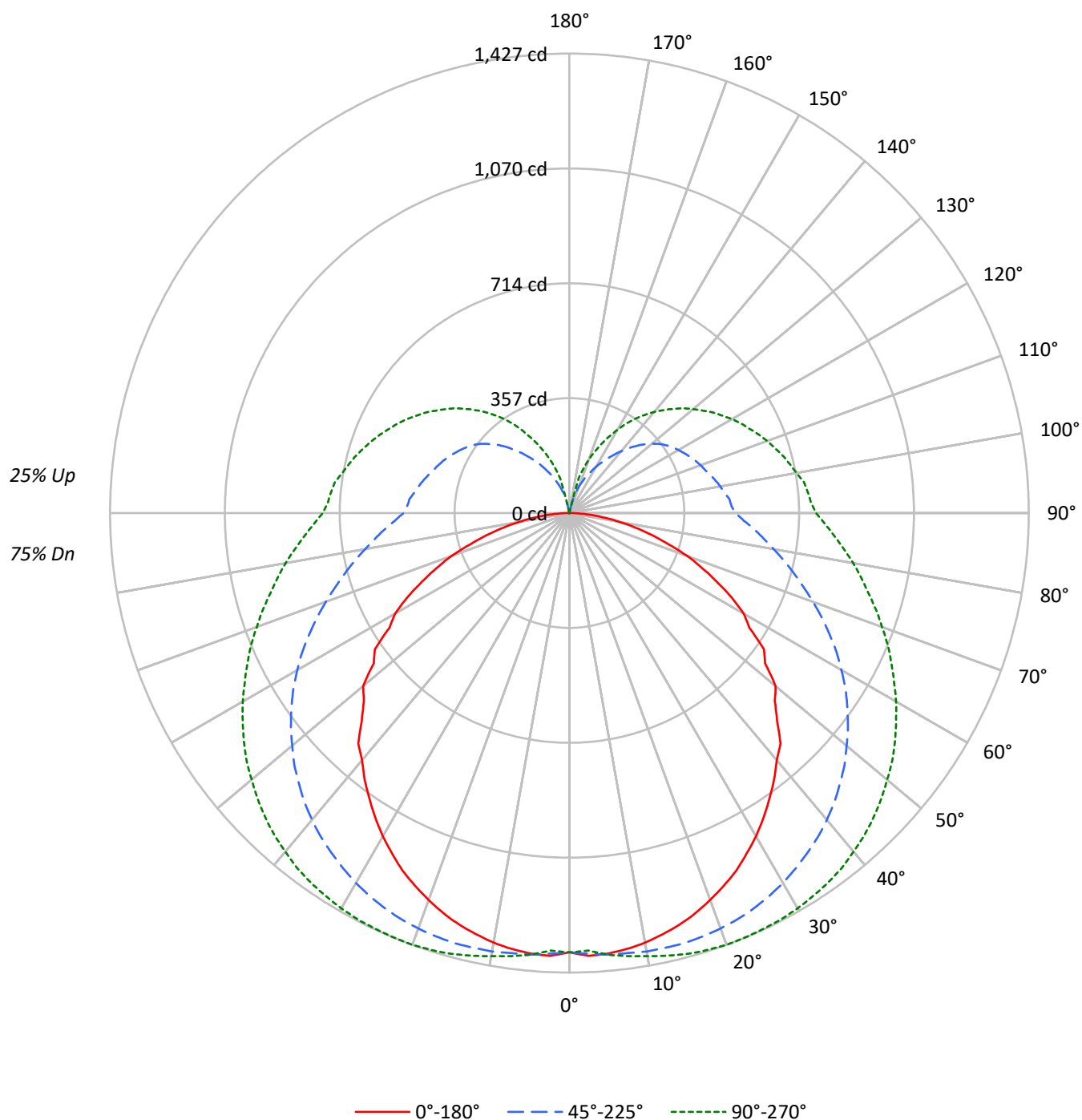
Input Watts (W): 69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	5512	5512	5512
5°	5562	5451	5405
10°	5542	5409	5376
15°	5512	5384	5387
20°	5468	5364	5398
25°	5424	5349	5406
30°	5359	5338	5435
35°	5285	5324	5472
40°	5217	5326	5508
45°	5131	5319	5551
50°	5160	5314	5596
55°	5086	5322	5662
60°	4921	5334	5739
65°	4676	5351	5846
70°	4412	5403	6010
75°	3922	5544	6253
80°	3396	5834	6656
85°	2683	6415	7244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	1.7
10°-20°	388.5	4.9
20°-30°	617.5	7.9
30°-40°	792.5	10.1
40°-50°	895.0	11.4
50°-60°	913.2	11.6
60°-70°	846.0	10.8
70°-80°	716.3	9.1
80°-90°	571.7	7.3
90°-100°	485.5	6.2
100°-110°	432.6	5.5
110°-120°	368.4	4.7
120°-130°	292.6	3.7
130°-140°	207.6	2.6
140°-150°	123.9	1.6
150°-160°	57.8	0.7
160°-170°	13.7	0.2
170°-180°	0.0	0.0
0°-30°	1137.1	14.5
0°-40°	1929.7	24.6
0°-60°	3737.9	47.6
0°-90°	5871.9	74.8
90°-120°	1286.5	16.4
90°-150°	1910.6	24.3
90°-180°	1982.0	25.2
0°-180°	7854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1373	1362	1376	1376	1376	130
15°	1323	1334	1382	1408	1417	373
25°	1226	1266	1355	1402	1425	564
35°	1083	1163	1288	1368	1401	678
45°	912	1035	1188	1292	1336	708
55°	738	862	1054	1183	1235	648
65°	506	674	892	1044	1104	502
75°	266	471	722	899	962	283
85°	68	303	576	762	827	74
90°	4	248	515	701	766	6
95°	0	233	498	681	744	0
105°	0	214	454	626	687	0
115°	0	199	413	563	618	0
125°	0	172	367	496	544	0
135°	0	128	295	419	458	0
145°	0	83	207	314	358	1
155°	2	52	128	192	238	1
165°	2	28	57	79	113	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°	1364.1	1364.1	1364.1	1364.1	1364.1
2.5°	1376.5	1362.1	1369.6	1367.6	1360.1
5°	1373.1	1362.1	1376.5	1376.5	1376.5
7.5°	1365.6	1358.1	1378.5	1386.0	1388.0
10°	1354.6	1354.6	1382.5	1393.5	1397.0
12.5°	1339.7	1345.2	1382.5	1399.0	1407.9
15°	1323.3	1334.2	1382.5	1407.9	1417.4
17.5°	1302.8	1321.3	1378.5	1409.9	1422.9
20°	1278.9	1306.8	1373.1	1409.9	1426.8
22.5°	1253.0	1288.4	1365.6	1406.4	1426.8
25°	1225.6	1266.0	1354.6	1402.4	1424.9
27.5°	1192.3	1244.1	1341.7	1397.0	1422.9
30°	1158.9	1218.2	1326.7	1389.5	1417.4
32.5°	1122.1	1190.3	1308.3	1378.5	1409.9
35°	1083.2	1162.9	1288.4	1367.6	1400.9
37.5°	1044.4	1129.5	1268.0	1352.6	1389.5
40°	1002.0	1096.2	1244.1	1334.2	1373.1
42.5°	970.7	1061.3	1218.2	1315.8	1356.6
45°	911.9	1035.4	1188.3	1291.9	1336.2
47.5°	865.6	985.6	1158.9	1268.0	1313.8
50°	836.2	944.8	1124.0	1240.1	1288.4
52.5°	766.0	917.4	1090.7	1212.7	1264.0
55°	738.1	862.1	1053.8	1182.8	1234.6
57.5°	662.4	823.2	1017.0	1149.9	1203.2
60°	625.5	769.4	976.1	1116.6	1171.9
62.5°	568.2	723.6	935.8	1079.7	1137.0
65°	505.5	673.8	891.5	1044.4	1103.6
67.5°	446.7	624.0	849.1	1007.5	1070.3
70°	389.5	572.2	804.8	970.7	1033.4
72.5°	322.7	520.4	762.0	935.8	998.5
75°	265.9	470.6	721.6	898.9	961.7
77.5°	210.2	422.8	682.8	865.6	928.3
80°	158.9	376.5	643.9	830.7	895.0
82.5°	110.6	337.7	609.1	797.3	860.1
85°	68.2	302.8	575.7	762.0	826.7
87.5°	31.4	271.4	542.3	729.1	795.3
90°	3.5	247.5	515.0	701.2	766.0
92.5°	2.0	240.0	504.0	688.3	751.0
95°	0.0	232.6	498.5	680.8	743.6
97.5°	0.0	225.1	485.6	669.8	734.6
100°	0.0	221.6	476.1	653.4	716.2
102.5°	0.0	216.1	465.2	638.5	701.2
105°	0.0	214.2	454.2	625.5	686.8
107.5°	0.0	210.2	442.7	609.1	669.8
110°	0.0	206.7	433.8	594.1	653.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	203.2	424.3	579.7	636.5
115°	0.0	199.2	413.4	562.8	618.0
117.5°	0.0	193.7	402.4	546.3	601.6
120°	0.0	186.3	391.4	531.4	583.2
122.5°	0.0	178.8	380.0	513.0	562.8
125°	0.0	171.8	367.0	496.5	544.3
127.5°	0.0	160.4	352.6	478.1	522.4
130°	0.0	149.4	334.2	459.7	502.0
132.5°	2.0	138.5	315.7	439.3	481.6
135°	0.0	127.5	295.3	418.8	457.7
137.5°	0.0	118.0	272.9	396.9	433.8
140°	0.0	107.1	251.0	371.0	409.9
142.5°	0.0	94.1	229.1	343.1	384.0
145°	0.0	83.2	206.7	313.8	358.1
147.5°	2.0	73.7	186.3	282.4	330.2
150°	2.0	66.2	166.3	251.0	298.8
152.5°	2.0	59.3	145.9	221.6	267.4
155°	2.0	51.8	127.5	191.7	238.1
157.5°	2.0	44.3	107.1	162.4	206.7
160°	2.0	38.8	88.6	136.5	177.3
162.5°	2.0	33.4	72.2	107.1	145.9
165°	2.0	27.9	57.3	79.2	112.6
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)