

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: P284639

Luminaire Tested: **8SNLED-LD5-77SL-SLW-UNV-L930-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: P284639
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-L930-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: 6112.0 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

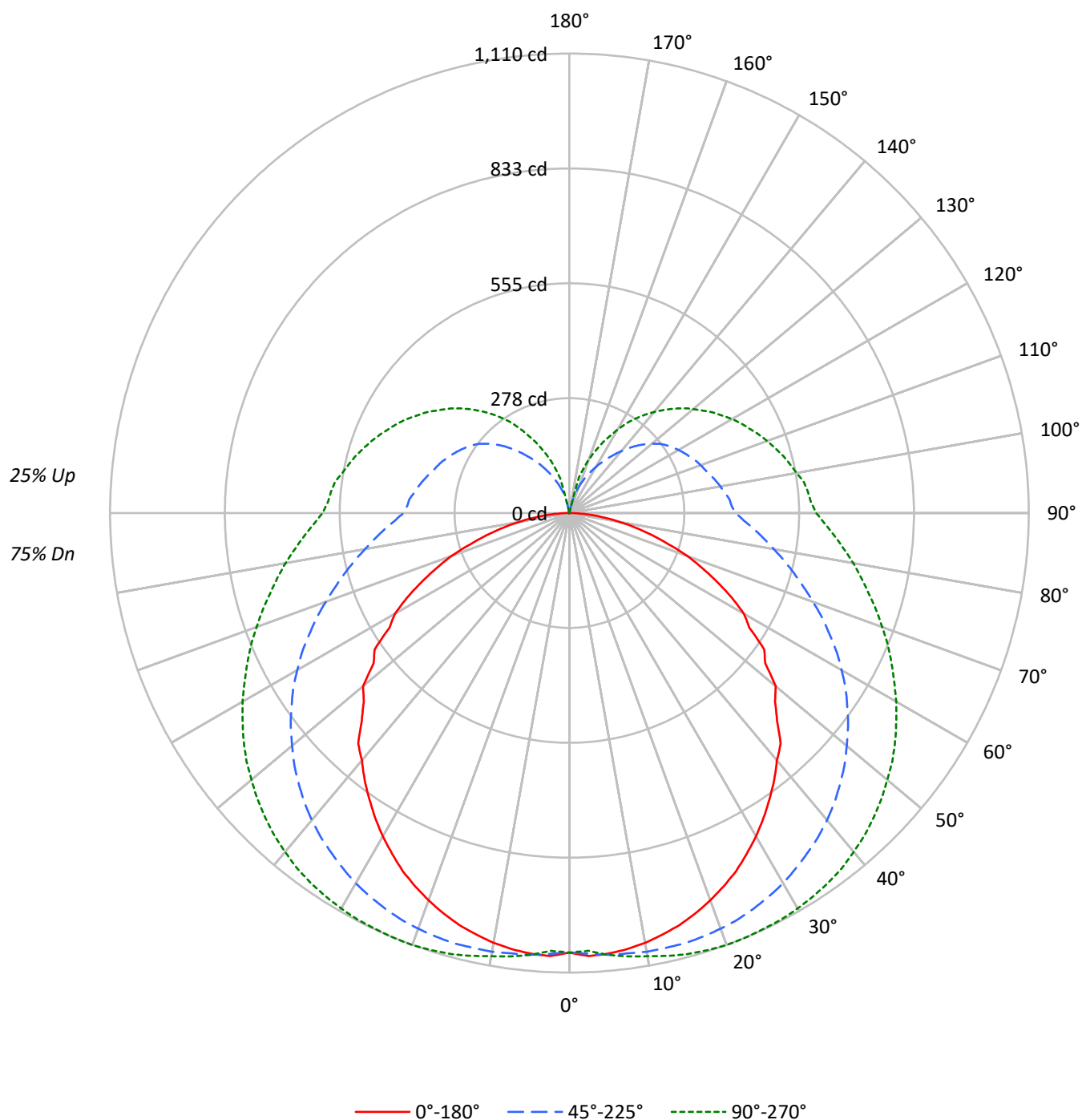
Input Watts (W): 69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	4289	4289	4289
5°	4328	4242	4207
10°	4313	4209	4183
15°	4290	4190	4192
20°	4255	4174	4201
25°	4221	4163	4207
30°	4170	4154	4230
35°	4113	4143	4258
40°	4060	4145	4286
45°	3992	4139	4320
50°	4015	4136	4354
55°	3958	4142	4406
60°	3830	4151	4466
65°	3639	4164	4549
70°	3433	4205	4677
75°	3053	4315	4866
80°	2642	4540	5180
85°	2089	4992	5638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	1.7
10°-20°	302.4	4.9
20°-30°	480.6	7.9
30°-40°	616.8	10.1
40°-50°	696.5	11.4
50°-60°	710.7	11.6
60°-70°	658.4	10.8
70°-80°	557.4	9.1
80°-90°	444.9	7.3
90°-100°	377.8	6.2
100°-110°	336.6	5.5
110°-120°	286.7	4.7
120°-130°	227.7	3.7
130°-140°	161.5	2.6
140°-150°	96.4	1.6
150°-160°	45.0	0.7
160°-170°	10.7	0.2
170°-180°	0.0	0.0
0°-30°	884.9	14.5
0°-40°	1501.7	24.6
0°-60°	2908.8	47.6
0°-90°	4569.5	74.8
90°-120°	1001.1	16.4
90°-150°	1486.8	24.3
90°-180°	1543.0	25.2
0°-180°	6112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1068	1060	1071	1071	1071	102
15°	1030	1038	1076	1096	1103	290
25°	954	985	1054	1091	1109	439
35°	843	905	1003	1064	1090	528
45°	710	806	925	1005	1040	551
55°	574	671	820	920	961	504
65°	393	524	694	813	859	390
75°	207	366	562	700	748	220
85°	53	236	448	593	643	58
90°	3	193	401	546	596	4
95°	0	181	388	530	579	0
105°	0	167	354	487	534	0
115°	0	155	322	438	481	0
125°	0	134	286	386	424	0
135°	0	99	230	326	356	0
145°	0	65	161	244	279	1
155°	2	40	99	149	185	1
165°	2	22	45	62	88	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°	1061.5	1061.5	1061.5	1061.5	1061.5
2.5°	1071.2	1060.0	1065.8	1064.3	1058.4
5°	1068.5	1060.0	1071.2	1071.2	1071.2
7.5°	1062.7	1056.9	1072.8	1078.6	1080.1
10°	1054.2	1054.2	1075.9	1084.4	1087.1
12.5°	1042.5	1046.8	1075.9	1088.7	1095.6
15°	1029.8	1038.3	1075.9	1095.6	1103.0
17.5°	1013.9	1028.2	1072.8	1097.2	1107.3
20°	995.3	1017.0	1068.5	1097.2	1110.4
22.5°	975.1	1002.6	1062.7	1094.5	1110.4
25°	953.8	985.2	1054.2	1091.4	1108.8
27.5°	927.8	968.1	1044.1	1087.1	1107.3
30°	901.9	948.0	1032.5	1081.3	1103.0
32.5°	873.2	926.3	1018.1	1072.8	1097.2
35°	843.0	905.0	1002.6	1064.3	1090.2
37.5°	812.7	879.0	986.7	1052.6	1081.3
40°	779.8	853.0	968.1	1038.3	1068.5
42.5°	755.4	825.9	948.0	1023.9	1055.7
45°	709.6	805.7	924.7	1005.3	1039.8
47.5°	673.6	767.0	901.9	986.7	1022.4
50°	650.7	735.2	874.7	965.0	1002.6
52.5°	596.1	713.9	848.8	943.7	983.6
55°	574.4	670.9	820.1	920.5	960.8
57.5°	515.5	640.6	791.4	894.9	936.4
60°	486.8	598.8	759.6	868.9	911.9
62.5°	442.2	563.1	728.2	840.2	884.8
65°	393.4	524.4	693.7	812.7	858.8
67.5°	347.6	485.6	660.8	784.0	832.9
70°	303.1	445.3	626.3	755.4	804.2
72.5°	251.1	405.0	593.0	728.2	777.1
75°	207.0	366.2	561.6	699.6	748.4
77.5°	163.6	329.0	531.4	673.6	722.4
80°	123.6	293.0	501.1	646.5	696.5
82.5°	86.0	262.8	474.0	620.5	669.3
85°	53.1	235.6	448.0	593.0	643.4
87.5°	24.4	211.2	422.1	567.4	618.9
90°	2.7	192.6	400.7	545.7	596.1
92.5°	1.6	186.8	392.2	535.6	584.4
95°	0.0	181.0	388.0	529.8	578.6
97.5°	0.0	175.2	377.9	521.3	571.7
100°	0.0	172.5	370.5	508.5	557.3
102.5°	0.0	168.2	362.0	496.9	545.7
105°	0.0	166.7	353.5	486.8	534.5
107.5°	0.0	163.6	344.5	474.0	521.3
110°	0.0	160.8	337.6	462.4	508.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	158.1	330.2	451.1	495.3
115°	0.0	155.0	321.7	437.9	481.0
117.5°	0.0	150.8	313.2	425.2	468.2
120°	0.0	144.9	304.6	413.5	453.8
122.5°	0.0	139.1	295.7	399.2	437.9
125°	0.0	133.7	285.6	386.4	423.6
127.5°	0.0	124.8	274.4	372.1	406.6
130°	0.0	116.3	260.1	357.7	390.7
132.5°	1.6	107.7	245.7	341.8	374.8
135°	0.0	99.2	229.8	325.9	356.2
137.5°	0.0	91.9	212.4	308.9	337.6
140°	0.0	83.3	195.3	288.7	319.0
142.5°	0.0	73.2	178.3	267.0	298.8
145°	0.0	64.7	160.8	244.2	278.7
147.5°	1.6	57.4	144.9	219.7	257.0
150°	1.6	51.5	129.4	195.3	232.5
152.5°	1.6	46.1	113.6	172.5	208.1
155°	1.6	40.3	99.2	149.2	185.3
157.5°	1.6	34.5	83.3	126.3	160.8
160°	1.6	30.2	69.0	106.2	138.0
162.5°	1.6	26.0	56.2	83.3	113.6
165°	1.6	21.7	44.6	61.6	87.6
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)