

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: P284678

Luminaire Tested: **8SNLED-LD5-77SL-SLW-UNV-L935-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: P284678
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-L935-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: 6486.9 lumens
Efficiency: N/A
Efficacy: 94.0 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

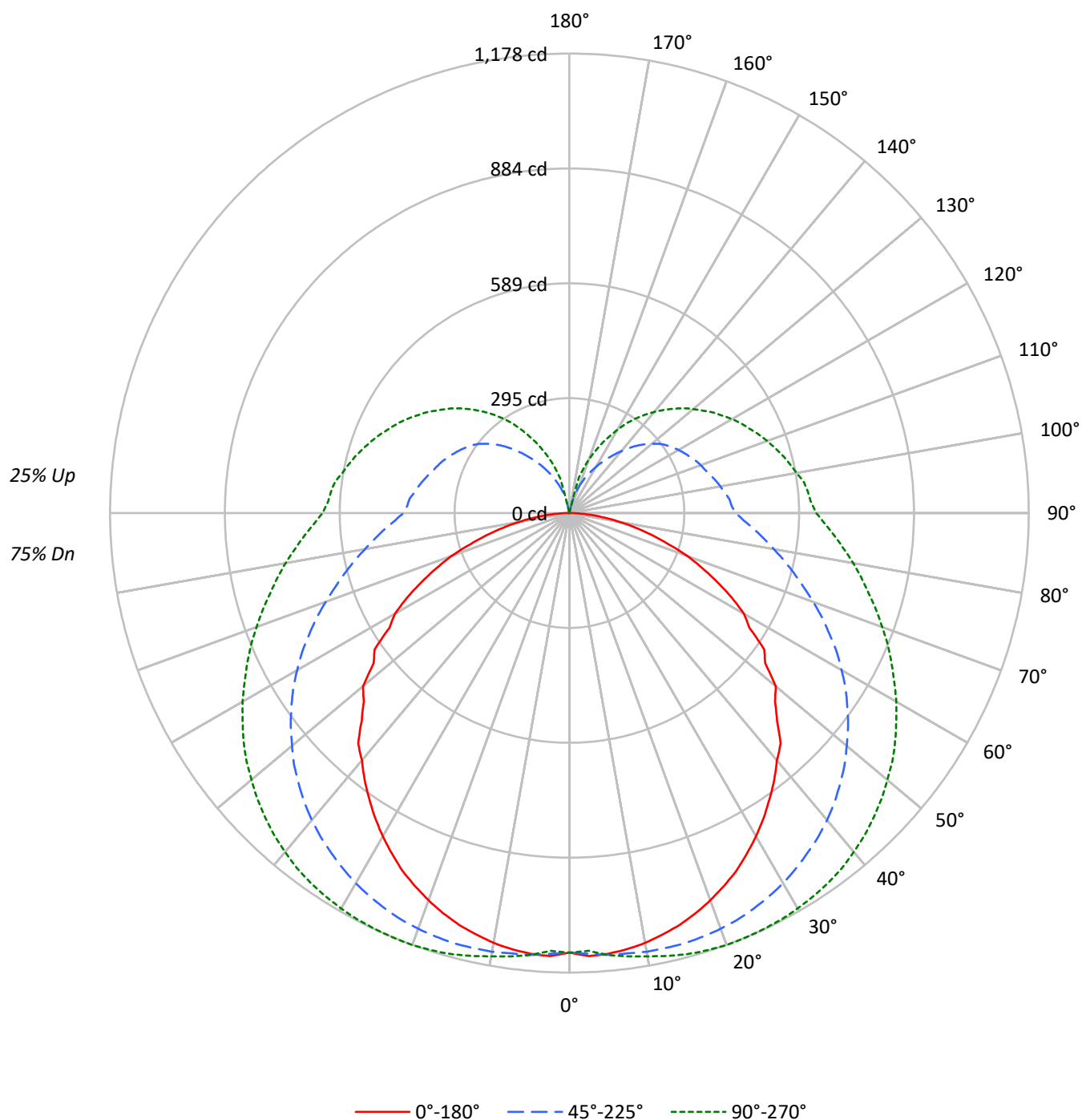
Input Watts (W): 69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4552	4552	4552
5°	4594	4503	4465
10°	4578	4467	4440
15°	4553	4447	4450
20°	4516	4431	4458
25°	4480	4419	4465
30°	4426	4409	4489
35°	4365	4397	4520
40°	4309	4399	4549
45°	4238	4394	4585
50°	4262	4390	4621
55°	4201	4396	4676
60°	4065	4405	4740
65°	3862	4419	4828
70°	3644	4463	4964
75°	3241	4579	5165
80°	2804	4820	5497
85°	2218	5299	5983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	1.7
10°-20°	320.9	4.9
20°-30°	510.0	7.9
30°-40°	654.6	10.1
40°-50°	739.2	11.4
50°-60°	754.3	11.6
60°-70°	698.8	10.8
70°-80°	591.6	9.1
80°-90°	472.2	7.3
90°-100°	401.0	6.2
100°-110°	357.3	5.5
110°-120°	304.3	4.7
120°-130°	241.7	3.7
130°-140°	171.5	2.6
140°-150°	102.4	1.6
150°-160°	47.7	0.7
160°-170°	11.3	0.2
170°-180°	0.0	0.0
0°-30°	939.2	14.5
0°-40°	1593.8	24.6
0°-60°	3087.2	47.6
0°-90°	4849.8	74.8
90°-120°	1062.5	16.4
90°-150°	1578.0	24.3
90°-180°	1637.0	25.2
0°-180°	6486.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1134	1125	1137	1137	1137	108
15°	1093	1102	1142	1163	1171	308
25°	1012	1046	1119	1158	1177	466
35°	895	960	1064	1130	1157	560
45°	753	855	982	1067	1104	585
55°	610	712	870	977	1020	535
65°	418	556	736	863	912	414
75°	220	389	596	742	794	234
85°	56	250	476	629	683	62
90°	3	204	425	579	633	5
95°	0	192	412	562	614	0
105°	0	177	375	517	567	0
115°	0	164	341	465	510	0
125°	0	142	303	410	450	0
135°	0	105	244	346	378	0
145°	0	69	171	259	296	1
155°	2	43	105	158	197	1
165°	2	23	47	65	93	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°	1126.7	1126.7	1126.7	1126.7	1126.7
2.5°	1137.0	1125.0	1131.2	1129.5	1123.4
5°	1134.1	1125.0	1137.0	1137.0	1137.0
7.5°	1127.9	1121.7	1138.6	1144.8	1146.4
10°	1118.9	1118.9	1141.9	1150.9	1153.8
12.5°	1106.5	1111.0	1141.9	1155.5	1162.9
15°	1092.9	1102.0	1141.9	1162.9	1170.7
17.5°	1076.1	1091.3	1138.6	1164.5	1175.2
20°	1056.3	1079.4	1134.1	1164.5	1178.5
22.5°	1034.9	1064.1	1127.9	1161.6	1178.5
25°	1012.3	1045.6	1118.9	1158.3	1176.9
27.5°	984.8	1027.5	1108.2	1153.8	1175.2
30°	957.2	1006.1	1095.8	1147.6	1170.7
32.5°	926.8	983.1	1080.6	1138.6	1164.5
35°	894.7	960.5	1064.1	1129.5	1157.1
37.5°	862.6	932.9	1047.3	1117.2	1147.6
40°	827.6	905.4	1027.5	1102.0	1134.1
42.5°	801.7	876.6	1006.1	1086.8	1120.5
45°	753.2	855.2	981.5	1067.0	1103.6
47.5°	714.9	814.0	957.2	1047.3	1085.1
50°	690.6	780.3	928.4	1024.2	1064.1
52.5°	632.6	757.7	900.8	1001.6	1044.0
55°	609.6	712.0	870.4	976.9	1019.7
57.5°	547.1	680.0	840.0	949.8	993.8
60°	516.6	635.5	806.2	922.2	967.9
62.5°	469.3	597.7	772.9	891.8	939.1
65°	417.5	556.5	736.3	862.6	911.5
67.5°	369.0	515.4	701.3	832.1	884.0
70°	321.7	472.6	664.7	801.7	853.5
72.5°	266.6	429.9	629.4	772.9	824.7
75°	219.7	388.7	596.0	742.5	794.3
77.5°	173.6	349.2	564.0	714.9	766.7
80°	131.2	311.0	531.9	686.1	739.2
82.5°	91.3	278.9	503.1	658.6	710.4
85°	56.4	250.1	475.5	629.4	682.8
87.5°	25.9	224.2	448.0	602.2	656.9
90°	2.9	204.4	425.3	579.2	632.6
92.5°	1.6	198.3	416.3	568.5	620.3
95°	0.0	192.1	411.8	562.3	614.1
97.5°	0.0	185.9	401.1	553.3	606.7
100°	0.0	183.0	393.2	539.7	591.5
102.5°	0.0	178.5	384.2	527.3	579.2
105°	0.0	176.9	375.1	516.6	567.2
107.5°	0.0	173.6	365.7	503.1	553.3
110°	0.0	170.7	358.3	490.7	539.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	167.8	350.5	478.8	525.7
115°	0.0	164.5	341.4	464.8	510.5
117.5°	0.0	160.0	332.4	451.2	496.9
120°	0.0	153.8	323.3	438.9	481.7
122.5°	0.0	147.7	313.9	423.7	464.8
125°	0.0	141.9	303.2	410.1	449.6
127.5°	0.0	132.5	291.2	394.9	431.5
130°	0.0	123.4	276.0	379.7	414.6
132.5°	1.6	114.4	260.8	362.8	397.8
135°	0.0	105.3	243.9	345.9	378.0
137.5°	0.0	97.5	225.4	327.8	358.3
140°	0.0	88.4	207.3	306.5	338.5
142.5°	0.0	77.7	189.2	283.4	317.1
145°	0.0	68.7	170.7	259.1	295.8
147.5°	1.6	60.9	153.8	233.2	272.7
150°	1.6	54.7	137.4	207.3	246.8
152.5°	1.6	48.9	120.5	183.0	220.9
155°	1.6	42.8	105.3	158.4	196.6
157.5°	1.6	36.6	88.4	134.1	170.7
160°	1.6	32.1	73.2	112.7	146.4
162.5°	1.6	27.6	59.6	88.4	120.5
165°	1.6	23.0	47.3	65.4	93.0
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)