

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: P284717

Luminaire Tested: **8SNLED-LD5-77SL-SLW-UNV-L940-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: P284717
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-L940-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: 6641.0 lumens
Efficiency: N/A
Efficacy: 96.2 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

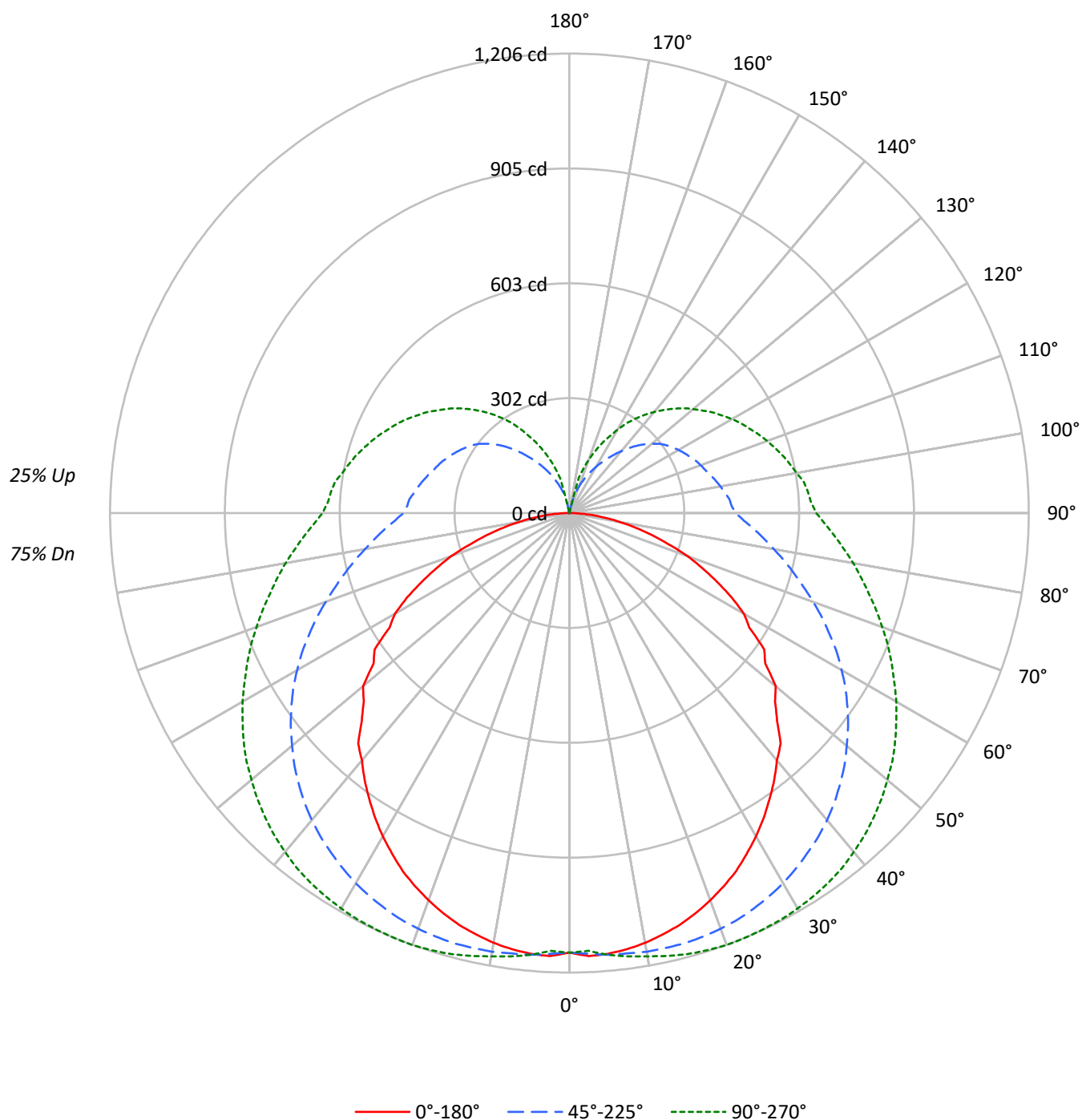
Input Watts (W): 69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284717

CATALOG NUMBER: 8SNLED-LD5-77SL-SLW-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284717

CATALOG NUMBER: 8SNLED-LD5-77SL-SLW-UNV-L940-CD1-U

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°	4660	4660	4660
5°	4703	4609	4571
10°	4686	4573	4545
15°	4661	4553	4555
20°	4624	4536	4564
25°	4587	4523	4571
30°	4531	4513	4596
35°	4469	4502	4627
40°	4411	4503	4657
45°	4338	4498	4694
50°	4363	4494	4731
55°	4300	4500	4787
60°	4161	4510	4853
65°	3954	4524	4943
70°	3730	4569	5082
75°	3318	4688	5288
80°	2871	4934	5627
85°	2270	5425	6125



TEST NUMBER: P284717

CATALOG NUMBER: 8SNLED-LD5-77SL-SLW-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	1.7
10°-20°	328.5	4.9
20°-30°	522.1	7.9
30°-40°	670.1	10.1
40°-50°	756.7	11.4
50°-60°	772.2	11.6
60°-70°	715.4	10.8
70°-80°	605.6	9.1
80°-90°	483.4	7.3
90°-100°	410.5	6.2
100°-110°	365.8	5.5
110°-120°	311.5	4.7
120°-130°	247.4	3.7
130°-140°	175.5	2.6
140°-150°	104.8	1.6
150°-160°	48.9	0.7
160°-170°	11.6	0.2
170°-180°	0.0	0.0
0°-30°	961.5	14.5
0°-40°	1631.6	24.6
0°-60°	3160.5	47.6
0°-90°	4965.0	74.8
90°-120°	1087.8	16.4
90°-150°	1615.6	24.3
90°-180°	1676.0	25.2
0°-180°	6641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1161	1152	1164	1164	1164	110
15°	1119	1128	1169	1190	1198	316
25°	1036	1070	1145	1186	1205	477
35°	916	983	1089	1156	1185	573
45°	771	876	1005	1092	1130	599
55°	624	729	891	1000	1044	548
65°	427	570	754	883	933	424
75°	225	398	610	760	813	239
85°	58	256	487	644	699	63
90°	3	209	435	593	648	5
95°	0	197	422	576	629	0
105°	0	181	384	529	581	0
115°	0	168	350	476	523	0
125°	0	145	310	420	460	0
135°	0	108	250	354	387	0
145°	0	70	175	265	303	1
155°	2	44	108	162	201	1
165°	2	24	48	67	95	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284717

CATALOG NUMBER: 8SNLED-LD5-77SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1163.9	1151.7	1158.0	1156.4	1150.0
5°	1161.0	1151.7	1163.9	1163.9	1163.9
7.5°	1154.7	1148.4	1165.6	1171.9	1173.6
10°	1145.4	1145.4	1169.0	1178.3	1181.2
12.5°	1132.8	1137.4	1169.0	1182.9	1190.5
15°	1118.9	1128.1	1169.0	1190.5	1198.5
17.5°	1101.6	1117.2	1165.6	1192.2	1203.1
20°	1081.4	1105.0	1161.0	1192.2	1206.5
22.5°	1059.5	1089.4	1154.7	1189.2	1206.5
25°	1036.3	1070.5	1145.4	1185.8	1204.8
27.5°	1008.1	1051.9	1134.5	1181.2	1203.1
30°	979.9	1030.0	1121.8	1174.9	1198.5
32.5°	948.8	1006.4	1106.3	1165.6	1192.2
35°	915.9	983.3	1089.4	1156.4	1184.6
37.5°	883.1	955.1	1072.1	1143.7	1174.9
40°	847.3	926.9	1051.9	1128.1	1161.0
42.5°	820.7	897.4	1030.0	1112.6	1147.1
45°	771.0	875.5	1004.8	1092.4	1129.8
47.5°	731.9	833.4	979.9	1072.1	1110.9
50°	707.0	798.8	950.4	1048.6	1089.4
52.5°	647.7	775.7	922.2	1025.4	1068.8
55°	624.1	728.9	891.1	1000.1	1043.9
57.5°	560.1	696.1	859.9	972.3	1017.4
60°	528.9	650.6	825.4	944.1	990.9
62.5°	480.5	611.9	791.3	913.0	961.4
65°	427.4	569.8	753.8	883.1	933.2
67.5°	377.7	527.6	718.0	851.9	905.0
70°	329.3	483.9	680.5	820.7	873.8
72.5°	272.9	440.1	644.3	791.3	844.3
75°	224.9	397.9	610.2	760.1	813.2
77.5°	177.7	357.5	577.3	731.9	784.9
80°	134.3	318.4	544.5	702.4	756.7
82.5°	93.5	285.5	515.0	674.2	727.3
85°	57.7	256.0	486.8	644.3	699.0
87.5°	26.5	229.5	458.6	616.5	672.5
90°	2.9	209.3	435.4	592.9	647.7
92.5°	1.7	203.0	426.2	582.0	635.0
95°	0.0	196.7	421.5	575.7	628.7
97.5°	0.0	190.3	410.6	566.4	621.1
100°	0.0	187.4	402.6	552.5	605.6
102.5°	0.0	182.8	393.3	539.9	592.9
105°	0.0	181.1	384.1	528.9	580.7
107.5°	0.0	177.7	374.4	515.0	566.4
110°	0.0	174.8	366.8	502.4	552.5



TEST NUMBER: P284717

CATALOG NUMBER: 8SNLED-LD5-77SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	171.8	358.8	490.2	538.2
115°	0.0	168.4	349.5	475.9	522.6
117.5°	0.0	163.8	340.3	462.0	508.7
120°	0.0	157.5	331.0	449.3	493.1
122.5°	0.0	151.2	321.3	433.7	475.9
125°	0.0	145.3	310.4	419.8	460.3
127.5°	0.0	135.6	298.1	404.3	441.7
130°	0.0	126.3	282.6	388.7	424.5
132.5°	1.7	117.1	267.0	371.4	407.2
135°	0.0	107.8	249.7	354.2	387.0
137.5°	0.0	99.8	230.8	335.6	366.8
140°	0.0	90.5	212.2	313.7	346.6
142.5°	0.0	79.6	193.7	290.1	324.7
145°	0.0	70.3	174.8	265.3	302.8
147.5°	1.7	62.3	157.5	238.8	279.2
150°	1.7	56.0	140.7	212.2	252.7
152.5°	1.7	50.1	123.4	187.4	226.1
155°	1.7	43.8	107.8	162.1	201.3
157.5°	1.7	37.5	90.5	137.3	174.8
160°	1.7	32.8	75.0	115.4	149.9
162.5°	1.7	28.2	61.1	90.5	123.4
165°	1.7	23.6	48.4	67.0	95.2
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)