

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: P284756

Luminaire Tested: **8SNLED-LD5-77SL-SLW-UNV-L950-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: P284756
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-L950-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: 7079.0 lumens
Efficiency: N/A
Efficacy: 102.6 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

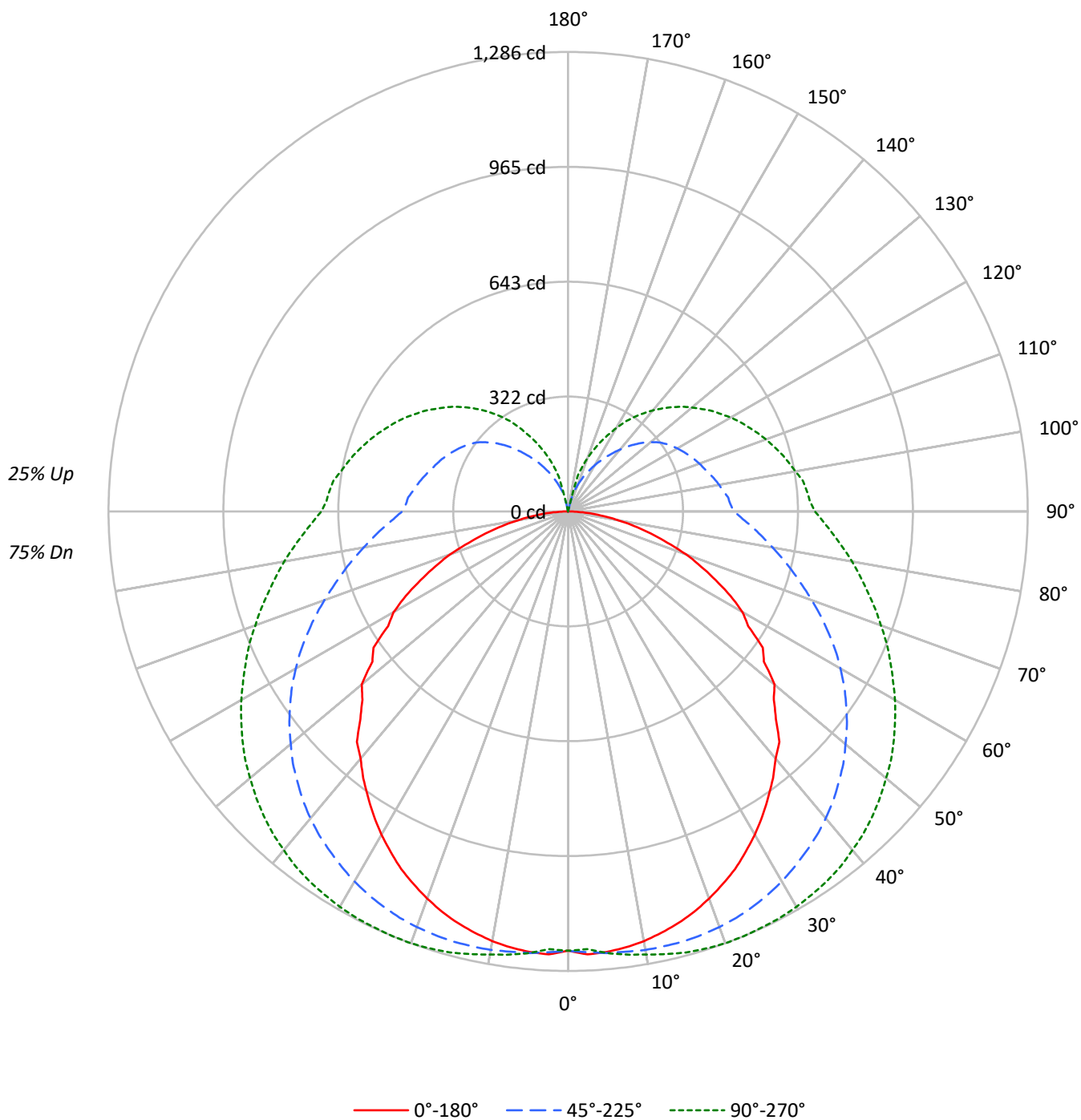
Input Watts (W): 69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	4968	4968	4968
5°	5013	4913	4872
10°	4996	4875	4845
15°	4968	4853	4855
20°	4928	4835	4865
25°	4889	4822	4873
30°	4830	4811	4899
35°	4764	4799	4932
40°	4702	4801	4964
45°	4624	4794	5004
50°	4651	4790	5044
55°	4584	4797	5103
60°	4436	4807	5172
65°	4215	4823	5269
70°	3976	4870	5417
75°	3536	4997	5636
80°	3061	5259	5998
85°	2419	5782	6529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	1.7
10°-20°	350.2	4.9
20°-30°	556.6	7.9
30°-40°	714.3	10.1
40°-50°	806.7	11.4
50°-60°	823.1	11.6
60°-70°	762.5	10.8
70°-80°	645.6	9.1
80°-90°	515.3	7.3
90°-100°	437.6	6.2
100°-110°	389.9	5.5
110°-120°	332.0	4.7
120°-130°	263.7	3.7
130°-140°	187.1	2.6
140°-150°	111.7	1.6
150°-160°	52.1	0.7
160°-170°	12.4	0.2
170°-180°	0.0	0.0
0°-30°	1024.9	14.5
0°-40°	1739.3	24.6
0°-60°	3369.0	47.6
0°-90°	5292.5	74.8
90°-120°	1159.5	16.4
90°-150°	1722.1	24.3
90°-180°	1787.0	25.2
0°-180°	7079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1238	1228	1241	1241	1241	118
15°	1193	1203	1246	1269	1278	336
25°	1105	1141	1221	1264	1284	509
35°	976	1048	1161	1233	1263	611
45°	822	933	1071	1164	1204	638
55°	665	777	950	1066	1113	584
65°	456	607	804	941	995	452
75°	240	424	650	810	867	255
85°	62	273	519	687	745	67
90°	3	223	464	632	690	5
95°	0	210	449	614	670	0
105°	0	193	409	564	619	0
115°	0	180	373	507	557	0
125°	0	155	331	448	491	0
135°	0	115	266	378	412	0
145°	0	75	186	283	323	1
155°	2	47	115	173	215	1
165°	2	25	52	71	101	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°	1229.5	1229.5	1229.5	1229.5	1229.5
2.5°	1240.7	1227.7	1234.4	1232.6	1225.9
5°	1237.6	1227.7	1240.7	1240.7	1240.7
7.5°	1230.8	1224.1	1242.5	1249.2	1251.0
10°	1221.0	1221.0	1246.1	1256.0	1259.1
12.5°	1207.5	1212.4	1246.1	1260.9	1269.0
15°	1192.7	1202.6	1246.1	1269.0	1277.5
17.5°	1174.3	1190.9	1242.5	1270.8	1282.5
20°	1152.7	1177.9	1237.6	1270.8	1286.0
22.5°	1129.4	1161.3	1230.8	1267.6	1286.0
25°	1104.7	1141.1	1221.0	1264.1	1284.3
27.5°	1074.6	1121.3	1209.3	1259.1	1282.5
30°	1044.5	1098.0	1195.8	1252.4	1277.5
32.5°	1011.3	1072.8	1179.2	1242.5	1270.8
35°	976.3	1048.1	1161.3	1232.6	1262.7
37.5°	941.3	1018.1	1142.9	1219.2	1252.4
40°	903.2	988.0	1121.3	1202.6	1237.6
42.5°	874.9	956.6	1098.0	1185.9	1222.8
45°	821.9	933.2	1071.0	1164.4	1204.4
47.5°	780.2	888.3	1044.5	1142.9	1184.2
50°	753.7	851.5	1013.1	1117.7	1161.3
52.5°	690.4	826.8	983.1	1093.0	1139.3
55°	665.2	777.0	949.8	1066.1	1112.8
57.5°	597.0	742.0	916.6	1036.5	1084.5
60°	563.8	693.5	879.8	1006.4	1056.2
62.5°	512.2	652.2	843.4	973.2	1024.8
65°	455.6	607.3	803.5	941.3	994.7
67.5°	402.6	562.4	765.3	908.1	964.6
70°	351.0	515.8	725.4	874.9	931.4
72.5°	290.9	469.1	686.8	843.4	900.0
75°	239.7	424.2	650.4	810.2	866.8
77.5°	189.4	381.1	615.4	780.2	836.7
80°	143.2	339.4	580.4	748.7	806.6
82.5°	99.7	304.3	549.0	718.7	775.2
85°	61.5	272.9	518.9	686.8	745.1
87.5°	28.3	244.6	488.8	657.2	716.9
90°	3.1	223.1	464.1	632.0	690.4
92.5°	1.8	216.4	454.3	620.4	676.9
95°	0.0	209.6	449.3	613.6	670.2
97.5°	0.0	202.9	437.7	603.7	662.1
100°	0.0	199.8	429.1	588.9	645.5
102.5°	0.0	194.8	419.3	575.5	632.0
105°	0.0	193.0	409.4	563.8	619.0
107.5°	0.0	189.4	399.1	549.0	603.7
110°	0.0	186.3	391.0	535.5	588.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	183.1	382.4	522.5	573.7
115°	0.0	179.6	372.6	507.2	557.1
117.5°	0.0	174.6	362.7	492.4	542.2
120°	0.0	167.9	352.8	479.0	525.6
122.5°	0.0	161.1	342.5	462.3	507.2
125°	0.0	154.9	330.8	447.5	490.6
127.5°	0.0	144.5	317.8	430.9	470.9
130°	0.0	134.7	301.2	414.3	452.5
132.5°	1.8	124.8	284.6	395.9	434.1
135°	0.0	114.9	266.2	377.5	412.5
137.5°	0.0	106.4	246.0	357.8	391.0
140°	0.0	96.5	226.2	334.4	369.4
142.5°	0.0	84.8	206.5	309.3	346.1
145°	0.0	75.0	186.3	282.8	322.7
147.5°	1.8	66.4	167.9	254.5	297.6
150°	1.8	59.7	149.9	226.2	269.3
152.5°	1.8	53.4	131.5	199.8	241.0
155°	1.8	46.7	114.9	172.8	214.6
157.5°	1.8	40.0	96.5	146.3	186.3
160°	1.8	35.0	79.9	123.0	159.8
162.5°	1.8	30.1	65.1	96.5	131.5
165°	1.8	25.1	51.6	71.4	101.4
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)