

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: P#

Luminaire Tested: **8SNLED-LD5-81SL-SLW-UNV-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27403)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-81SL-SLW-UNV-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

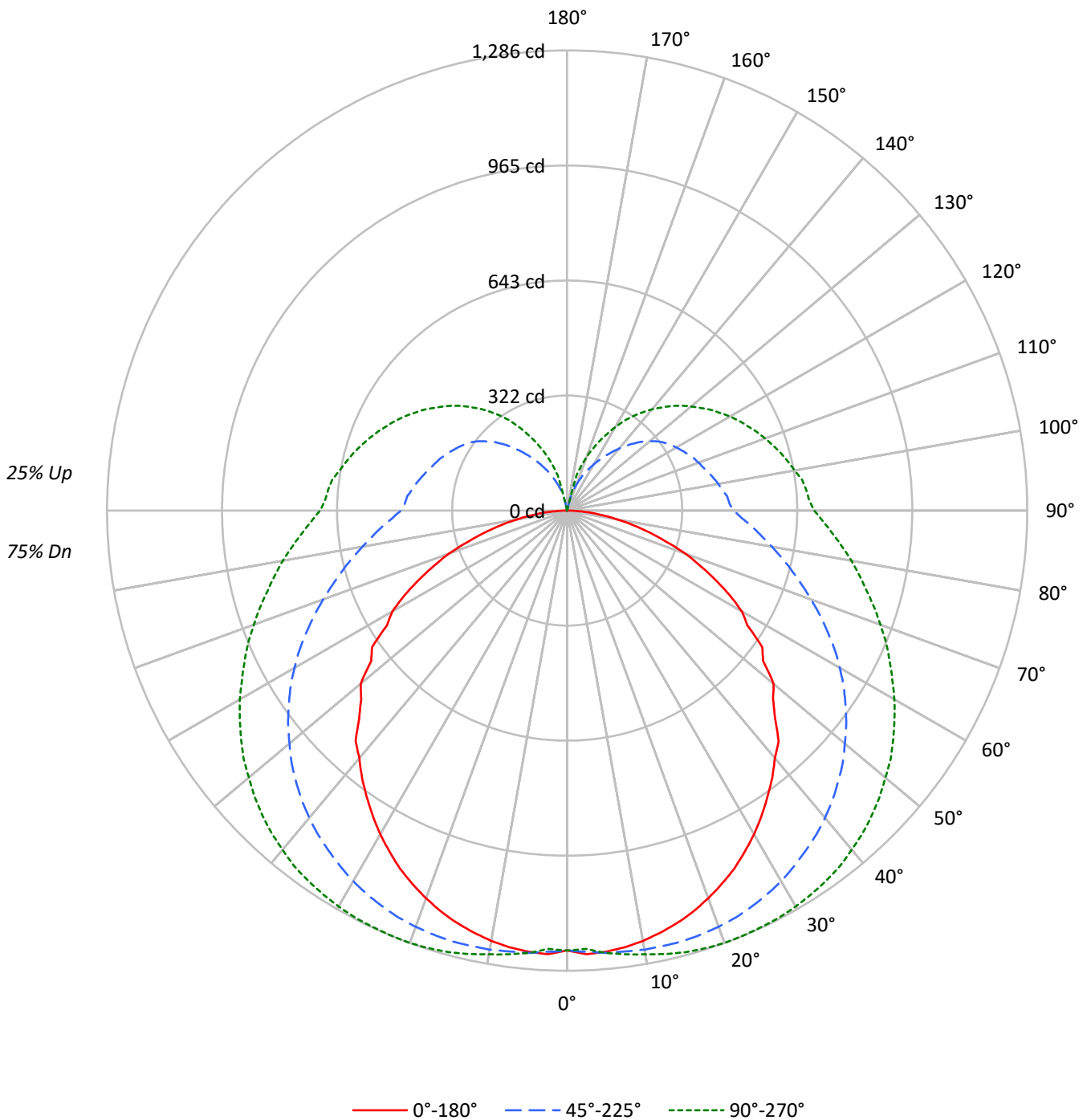
Lumens per Lamp: N/A  
Luminaire Lumens: 7079.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Semi-Direct

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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
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°	4967	4967	4967
5°	5013	4914	4873
10°	4996	4874	4846
15°	4968	4852	4855
20°	4929	4835	4864
25°	4888	4822	4872
30°	4830	4812	4899
35°	4764	4798	4932
40°	4703	4800	4964
45°	4623	4796	5003
50°	4650	4790	5043
55°	4585	4797	5103
60°	4437	4809	5173
65°	4216	4822	5269
70°	3976	4869	5417
75°	3533	4997	5635
80°	3059	5260	6000
85°	2419	5784	6530



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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°	714.4	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°	332.1	4.7
120°-130°	263.8	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°	3369.1	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°	1229	1229	1229	1229	1229	
5°	1238	1228	1241	1241	1241	118
15°	1193	1203	1246	1269	1278	336
25°	1104	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	803	942	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	72	102	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°	1229.3	1229.3	1229.3	1229.3	1229.3
2.5°	1240.9	1227.6	1234.3	1232.6	1226.0
5°	1237.6	1227.6	1240.9	1240.9	1240.9
7.5°	1231.0	1224.3	1242.6	1249.3	1250.9
10°	1221.0	1221.0	1245.9	1255.9	1259.2
12.5°	1207.7	1212.7	1245.9	1260.9	1269.2
15°	1192.7	1202.7	1245.9	1269.2	1277.5
17.5°	1174.4	1191.0	1242.6	1270.9	1282.5
20°	1152.8	1177.7	1237.6	1270.9	1285.8
22.5°	1129.5	1161.1	1231.0	1267.5	1285.8
25°	1104.5	1141.1	1221.0	1264.2	1284.2
27.5°	1074.6	1121.2	1209.3	1259.2	1282.5
30°	1044.6	1097.9	1196.0	1252.6	1277.5
32.5°	1011.4	1072.9	1179.4	1242.6	1270.9
35°	976.4	1048.0	1161.1	1232.6	1262.6
37.5°	941.5	1018.0	1142.8	1219.3	1252.6
40°	903.3	988.1	1121.2	1202.7	1237.6
42.5°	875.0	956.5	1097.9	1186.0	1222.6
45°	821.7	933.2	1071.3	1164.4	1204.3
47.5°	780.2	888.3	1044.6	1142.8	1184.4
50°	753.5	851.7	1013.0	1117.8	1161.1
52.5°	690.3	826.7	983.1	1092.9	1139.5
55°	665.4	776.8	949.8	1066.3	1112.8
57.5°	597.2	741.9	916.6	1036.3	1084.6
60°	563.9	693.7	880.0	1006.4	1056.3
62.5°	512.3	652.1	843.4	973.1	1024.7
65°	455.8	607.2	803.4	941.5	994.7
67.5°	402.6	562.2	765.2	908.2	964.8
70°	351.0	515.7	725.3	875.0	931.5
72.5°	291.1	469.1	687.0	843.4	899.9
75°	239.5	424.2	650.4	810.1	866.7
77.5°	189.6	380.9	615.5	780.2	836.7
80°	143.1	339.3	580.5	748.6	806.8
82.5°	99.8	304.4	548.9	718.6	775.2
85°	61.5	272.8	519.0	687.0	745.2
87.5°	28.3	244.5	489.1	657.1	716.9
90°	3.3	222.9	464.1	632.1	690.3
92.5°	1.7	216.2	454.1	620.5	677.0
95°	0.0	209.6	449.1	613.8	670.4
97.5°	0.0	202.9	437.5	603.8	662.1
100°	0.0	199.6	429.2	588.9	645.4
102.5°	0.0	194.6	419.2	575.6	632.1
105°	0.0	193.0	409.2	563.9	618.8
107.5°	0.0	189.6	399.2	548.9	603.8
110°	0.0	186.3	390.9	535.6	588.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	183.0	382.6	522.3	573.9
115°	0.0	179.7	372.6	507.4	557.3
117.5°	0.0	174.7	362.6	492.4	542.3
120°	0.0	168.0	352.7	479.1	525.7
122.5°	0.0	161.4	342.7	462.4	507.4
125°	0.0	154.7	331.0	447.5	490.7
127.5°	0.0	144.7	317.7	430.8	470.8
130°	0.0	134.7	301.1	414.2	452.5
132.5°	1.7	124.8	284.4	395.9	434.2
135°	0.0	114.8	266.2	377.6	412.5
137.5°	0.0	106.5	246.2	357.6	390.9
140°	0.0	96.5	226.2	334.4	369.3
142.5°	0.0	84.8	206.3	309.4	346.0
145°	0.0	74.9	186.3	282.8	322.7
147.5°	1.7	66.5	168.0	254.5	297.8
150°	1.7	59.9	149.7	226.2	269.5
152.5°	1.7	53.2	131.4	199.6	241.2
155°	1.7	46.6	114.8	173.0	214.6
157.5°	1.7	39.9	96.5	146.4	186.3
160°	1.7	34.9	79.8	123.1	159.7
162.5°	1.7	29.9	64.9	96.5	131.4
165°	1.7	25.0	51.6	71.5	101.5
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)