

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: **4SNLED-LD5-78HL-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: 4SNLED-LD5-78HL-SLW-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

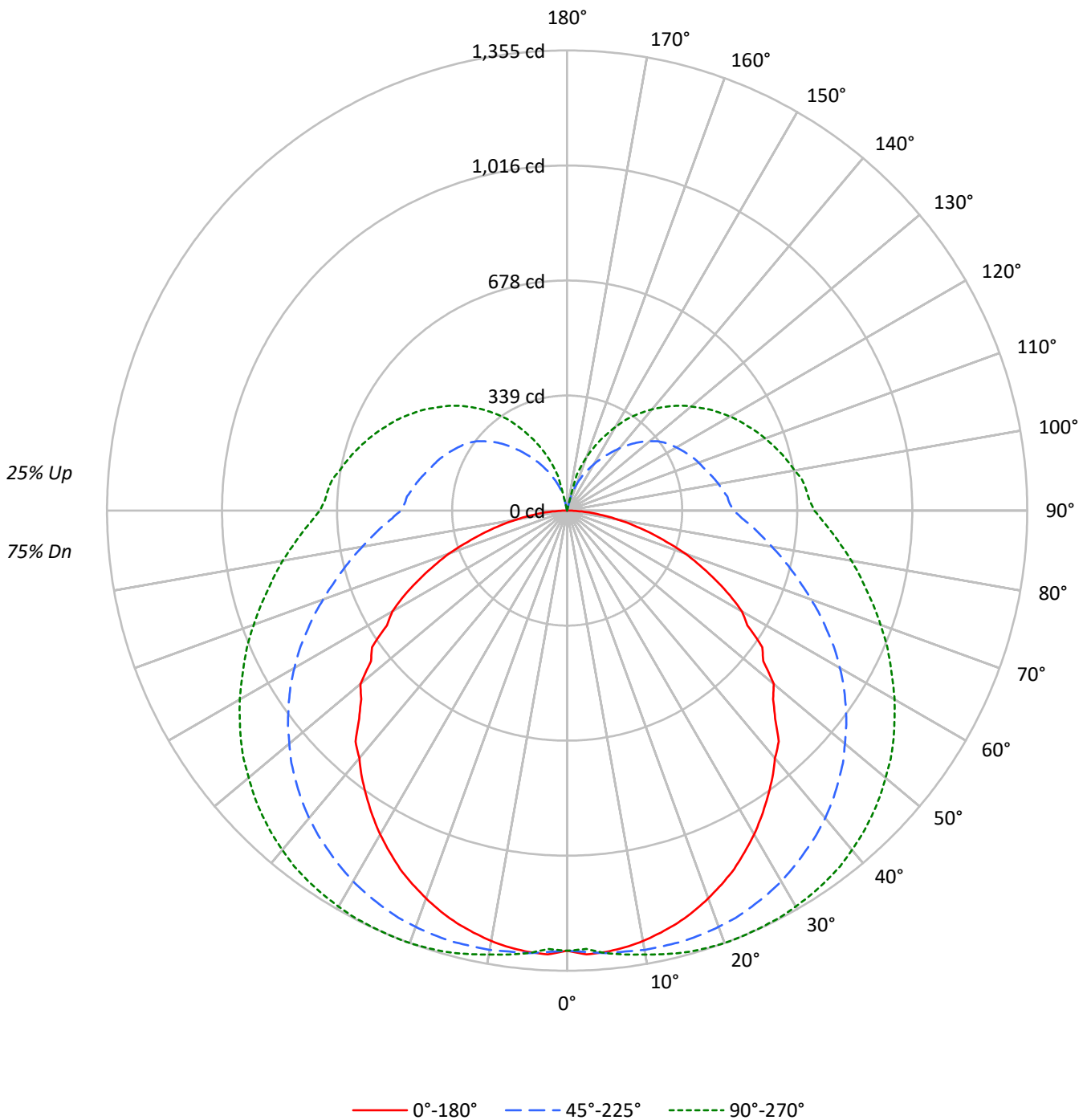
Lumens per Lamp: N/A  
Luminaire Lumens: 7462.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 79  
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	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°	10471	10471	10471
5°	10554	10351	10274
10°	10503	10257	10216
15°	10431	10201	10236
20°	10332	10156	10255
25°	10232	10119	10272
30°	10093	10089	10327
35°	9937	10050	10397
40°	9787	10044	10466
45°	9599	10023	10549
50°	9627	9998	10631
55°	9460	10000	10760
60°	9113	10008	10905
65°	8609	10017	11108
70°	8051	10091	11421
75°	7060	10326	11880
80°	5961	10826	12648
85°	4434	11834	13766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.6	1.7
10°-20°	369.1	4.9
20°-30°	586.7	7.9
30°-40°	753.0	10.1
40°-50°	850.3	11.4
50°-60°	867.6	11.6
60°-70°	803.8	10.8
70°-80°	680.5	9.1
80°-90°	543.2	7.3
90°-100°	461.2	6.2
100°-110°	411.0	5.5
110°-120°	350.0	4.7
120°-130°	278.0	3.7
130°-140°	197.2	2.6
140°-150°	117.8	1.6
150°-160°	54.9	0.7
160°-170°	13.0	0.2
170°-180°	0.0	0.0
0°-30°	1080.4	14.5
0°-40°	1833.4	24.6
0°-60°	3551.3	47.6
0°-90°	5578.9	74.8
90°-120°	1222.2	16.4
90°-150°	1815.2	24.3
90°-180°	1883.0	25.2
0°-180°	7462.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1305	1294	1308	1308	1308	124
15°	1257	1268	1313	1338	1347	355
25°	1164	1203	1287	1333	1354	536
35°	1029	1105	1224	1299	1331	644
45°	866	984	1129	1227	1270	673
55°	701	819	1001	1124	1173	616
65°	480	640	847	992	1049	477
75°	252	447	686	854	914	269
85°	65	288	547	724	786	71
90°	4	235	489	666	728	5
95°	0	221	473	647	707	0
105°	0	203	431	594	652	0
115°	0	189	393	535	587	0
125°	0	163	349	472	517	0
135°	0	121	281	398	435	0
145°	0	79	196	298	340	1
155°	2	49	121	182	226	1
165°	2	26	54	75	107	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 4SNLED-LD5-78HL-SLW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1295.8	1295.8	1295.8	1295.8	1295.8
2.5°	1308.1	1294.0	1301.1	1299.3	1292.3
5°	1304.6	1294.0	1308.1	1308.1	1308.1
7.5°	1297.6	1290.5	1309.8	1316.8	1318.6
10°	1287.0	1287.0	1313.3	1323.9	1327.4
12.5°	1273.0	1278.3	1313.3	1329.1	1337.9
15°	1257.2	1267.7	1313.3	1337.9	1346.6
17.5°	1237.9	1255.5	1309.8	1339.6	1351.9
20°	1215.1	1241.4	1304.6	1339.6	1355.4
22.5°	1190.6	1223.9	1297.6	1336.1	1355.4
25°	1164.3	1202.9	1287.0	1332.6	1353.7
27.5°	1132.7	1181.8	1274.8	1327.4	1351.9
30°	1101.2	1157.3	1260.7	1320.3	1346.6
32.5°	1066.1	1131.0	1243.2	1309.8	1339.6
35°	1029.3	1104.7	1223.9	1299.3	1330.9
37.5°	992.5	1073.1	1204.6	1285.3	1320.3
40°	952.1	1041.5	1181.8	1267.7	1304.6
42.5°	922.3	1008.2	1157.3	1250.2	1288.8
45°	866.2	983.7	1129.2	1227.4	1269.5
47.5°	822.4	936.3	1101.2	1204.6	1248.5
50°	794.3	897.8	1067.8	1178.3	1223.9
52.5°	727.7	871.5	1036.3	1152.0	1201.1
55°	701.4	818.9	1001.2	1124.0	1173.1
57.5°	629.5	782.0	966.1	1092.4	1143.2
60°	594.4	731.2	927.6	1060.8	1113.4
62.5°	540.1	687.4	889.0	1025.8	1080.1
65°	480.4	640.0	846.9	992.5	1048.6
67.5°	424.3	592.7	806.6	957.4	1017.0
70°	370.0	543.6	764.5	922.3	981.9
72.5°	306.9	494.5	724.2	889.0	948.6
75°	252.5	447.1	685.6	853.9	913.5
77.5°	199.9	401.5	648.8	822.4	882.0
80°	150.8	357.7	612.0	789.1	850.4
82.5°	105.2	320.9	578.6	757.5	817.1
85°	64.9	287.6	547.1	724.2	785.5
87.5°	29.8	257.8	515.5	692.6	755.7
90°	3.5	235.0	489.2	666.3	727.7
92.5°	1.8	227.9	478.7	654.0	713.7
95°	0.0	220.9	473.4	647.0	706.6
97.5°	0.0	213.9	461.2	636.5	697.9
100°	0.0	210.4	452.4	620.7	680.3
102.5°	0.0	205.2	441.9	606.7	666.3
105°	0.0	203.4	431.3	594.4	652.3
107.5°	0.0	199.9	420.8	578.6	636.5
110°	0.0	196.4	412.1	564.6	620.7



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CATALOG NUMBER: 4SNLED-LD5-78HL-SLW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	192.9	403.3	550.6	604.9
115°	0.0	189.4	392.8	534.8	587.4
117.5°	0.0	184.1	382.3	519.0	571.6
120°	0.0	177.1	371.7	505.0	554.1
122.5°	0.0	170.1	361.2	487.5	534.8
125°	0.0	163.1	348.9	471.7	517.3
127.5°	0.0	152.5	334.9	454.1	496.2
130°	0.0	142.0	317.4	436.6	476.9
132.5°	1.8	131.5	299.8	417.3	457.6
135°	0.0	121.0	280.6	398.0	434.9
137.5°	0.0	112.2	259.5	377.0	412.1
140°	0.0	101.7	238.5	352.4	389.3
142.5°	0.0	89.4	217.4	326.1	364.7
145°	0.0	78.9	196.4	298.1	340.2
147.5°	1.8	70.1	177.1	268.3	313.9
150°	1.8	63.1	157.8	238.5	284.1
152.5°	1.8	56.1	138.5	210.4	254.2
155°	1.8	49.1	121.0	182.4	226.2
157.5°	1.8	42.1	101.7	154.3	196.4
160°	1.8	36.8	84.2	129.8	168.3
162.5°	1.8	31.6	68.4	101.7	138.5
165°	1.8	26.3	54.4	75.4	107.0
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)