

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-L935-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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

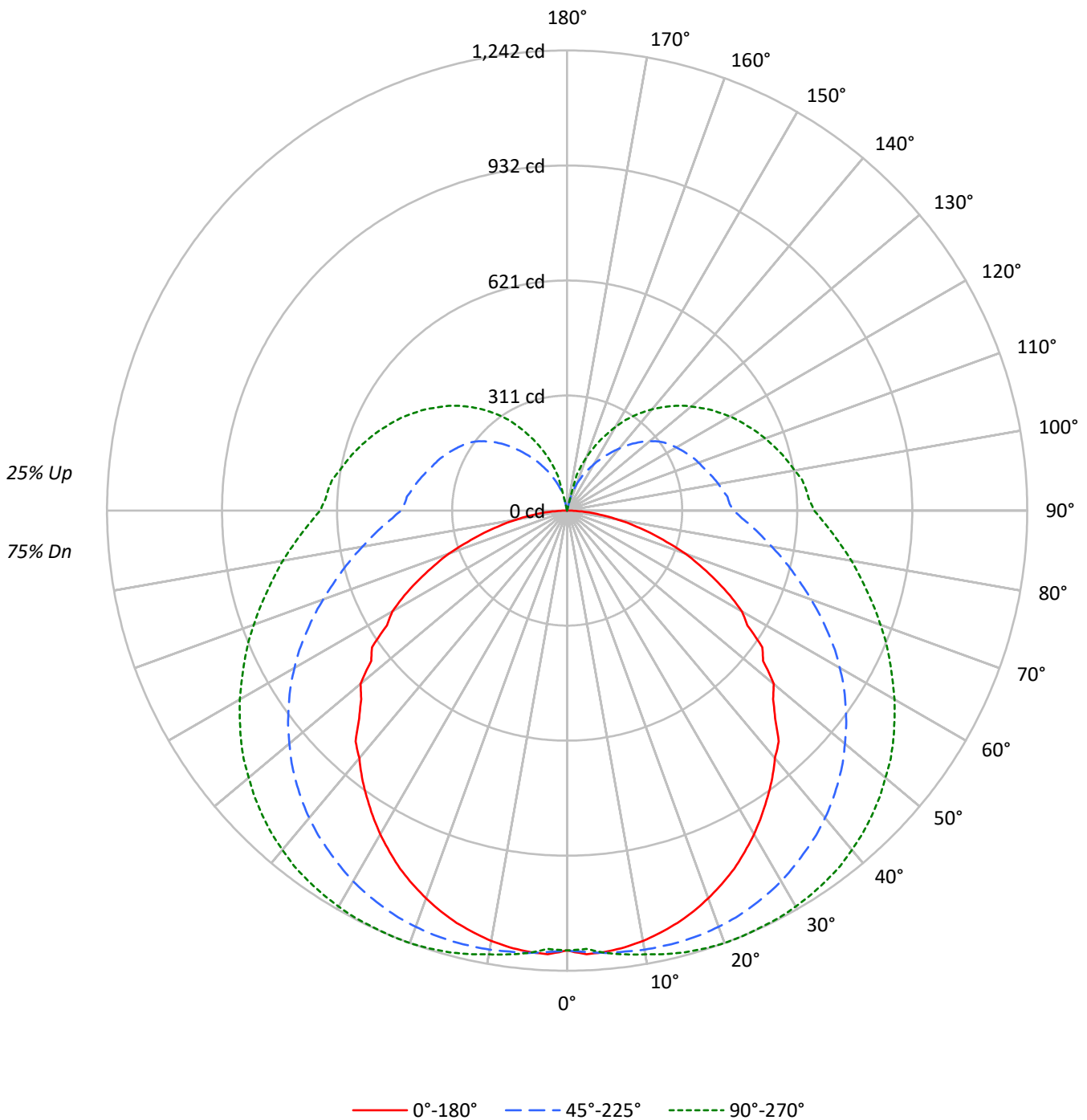
Lumens per Lamp: N/A
Luminaire Lumens: 6838.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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°	9595	9595	9595
5°	9671	9485	9415
10°	9625	9399	9362
15°	9559	9348	9380
20°	9468	9307	9398
25°	9376	9273	9413
30°	9249	9245	9464
35°	9106	9210	9527
40°	8969	9204	9591
45°	8797	9185	9666
50°	8822	9163	9742
55°	8668	9164	9860
60°	8351	9171	9993
65°	7890	9180	10179
70°	7376	9248	10466
75°	6470	9463	10887
80°	5463	9921	11591
85°	4065	10843	12617



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	1.7
10°-20°	338.3	4.9
20°-30°	537.6	7.9
30°-40°	690.0	10.1
40°-50°	779.2	11.4
50°-60°	795.1	11.6
60°-70°	736.6	10.8
70°-80°	623.6	9.1
80°-90°	497.8	7.3
90°-100°	422.7	6.2
100°-110°	376.6	5.5
110°-120°	320.8	4.7
120°-130°	254.8	3.7
130°-140°	180.7	2.6
140°-150°	107.9	1.6
150°-160°	50.3	0.7
160°-170°	11.9	0.2
170°-180°	0.0	0.0
0°-30°	990.1	14.5
0°-40°	1680.1	24.6
0°-60°	3254.4	47.6
0°-90°	5112.3	74.8
90°-120°	1120.0	16.4
90°-150°	1663.4	24.3
90°-180°	1726.0	25.2
0°-180°	6838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1196	1186	1199	1199	1199	114
15°	1152	1162	1204	1226	1234	325
25°	1067	1102	1179	1221	1240	491
35°	943	1012	1122	1191	1220	590
45°	794	901	1035	1125	1163	616
55°	643	750	918	1030	1075	564
65°	440	586	776	910	961	437
75°	231	410	628	782	837	246
85°	60	264	501	664	720	65
90°	3	215	448	611	667	5
95°	0	202	434	593	648	0
105°	0	186	395	545	598	0
115°	0	174	360	490	538	0
125°	0	149	320	432	474	0
135°	0	111	257	365	398	0
145°	0	72	180	273	312	1
155°	2	45	111	167	207	1
165°	2	24	50	69	98	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°	1187.4	1187.4	1187.4	1187.4	1187.4
2.5°	1198.7	1185.8	1192.3	1190.7	1184.2
5°	1195.5	1185.8	1198.7	1198.7	1198.7
7.5°	1189.0	1182.6	1200.3	1206.7	1208.3
10°	1179.4	1179.4	1203.5	1213.1	1216.4
12.5°	1166.6	1171.4	1203.5	1218.0	1226.0
15°	1152.1	1161.7	1203.5	1226.0	1234.0
17.5°	1134.4	1150.5	1200.3	1227.6	1238.9
20°	1113.5	1137.6	1195.5	1227.6	1242.1
22.5°	1091.0	1121.6	1189.0	1224.4	1242.1
25°	1066.9	1102.3	1179.4	1221.2	1240.5
27.5°	1038.0	1083.0	1168.2	1216.4	1238.9
30°	1009.1	1060.5	1155.3	1209.9	1234.0
32.5°	976.9	1036.4	1139.2	1200.3	1227.6
35°	943.2	1012.3	1121.6	1190.7	1219.6
37.5°	909.5	983.4	1103.9	1177.8	1209.9
40°	872.5	954.5	1083.0	1161.7	1195.5
42.5°	845.2	923.9	1060.5	1145.7	1181.0
45°	793.8	901.4	1034.8	1124.8	1163.3
47.5°	753.6	858.0	1009.1	1103.9	1144.1
50°	727.9	822.7	978.6	1079.8	1121.6
52.5°	666.8	798.6	949.6	1055.7	1100.7
55°	642.7	750.4	917.5	1030.0	1075.0
57.5°	576.8	716.6	885.4	1001.0	1047.6
60°	544.7	670.0	850.0	972.1	1020.3
62.5°	494.9	629.9	814.7	940.0	989.8
65°	440.3	586.5	776.1	909.5	960.9
67.5°	388.9	543.1	739.1	877.3	932.0
70°	339.0	498.1	700.6	845.2	899.8
72.5°	281.2	453.1	663.6	814.7	869.3
75°	231.4	409.7	628.3	782.5	837.2
77.5°	183.2	368.0	594.5	753.6	808.2
80°	138.2	327.8	560.8	723.1	779.3
82.5°	96.4	294.0	530.3	694.1	748.8
85°	59.5	263.5	501.3	663.6	719.9
87.5°	27.3	236.2	472.4	634.7	692.5
90°	3.2	215.3	448.3	610.6	666.8
92.5°	1.6	208.9	438.7	599.3	654.0
95°	0.0	202.5	433.8	592.9	647.5
97.5°	0.0	196.0	422.6	583.3	639.5
100°	0.0	192.8	414.6	568.8	623.4
102.5°	0.0	188.0	404.9	556.0	610.6
105°	0.0	186.4	395.3	544.7	597.7
107.5°	0.0	183.2	385.6	530.3	583.3
110°	0.0	180.0	377.6	517.4	568.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	176.8	369.6	504.5	554.4
115°	0.0	173.5	359.9	490.1	538.3
117.5°	0.0	168.7	350.3	475.6	523.8
120°	0.0	162.3	340.6	462.8	507.8
122.5°	0.0	155.9	331.0	446.7	490.1
125°	0.0	149.4	319.8	432.2	474.0
127.5°	0.0	139.8	306.9	416.2	454.7
130°	0.0	130.2	290.8	400.1	437.1
132.5°	1.6	120.5	274.8	382.4	419.4
135°	0.0	110.9	257.1	364.7	398.5
137.5°	0.0	102.8	237.8	345.5	377.6
140°	0.0	93.2	218.5	323.0	356.7
142.5°	0.0	81.9	199.2	298.9	334.2
145°	0.0	72.3	180.0	273.2	311.7
147.5°	1.6	64.3	162.3	245.8	287.6
150°	1.6	57.8	144.6	218.5	260.3
152.5°	1.6	51.4	126.9	192.8	233.0
155°	1.6	45.0	110.9	167.1	207.3
157.5°	1.6	38.6	93.2	141.4	180.0
160°	1.6	33.7	77.1	118.9	154.3
162.5°	1.6	28.9	62.7	93.2	126.9
165°	1.6	24.1	49.8	69.1	98.0
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)