

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-LD5-74HL-SLN-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 (P27402)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-74HL-SLN-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

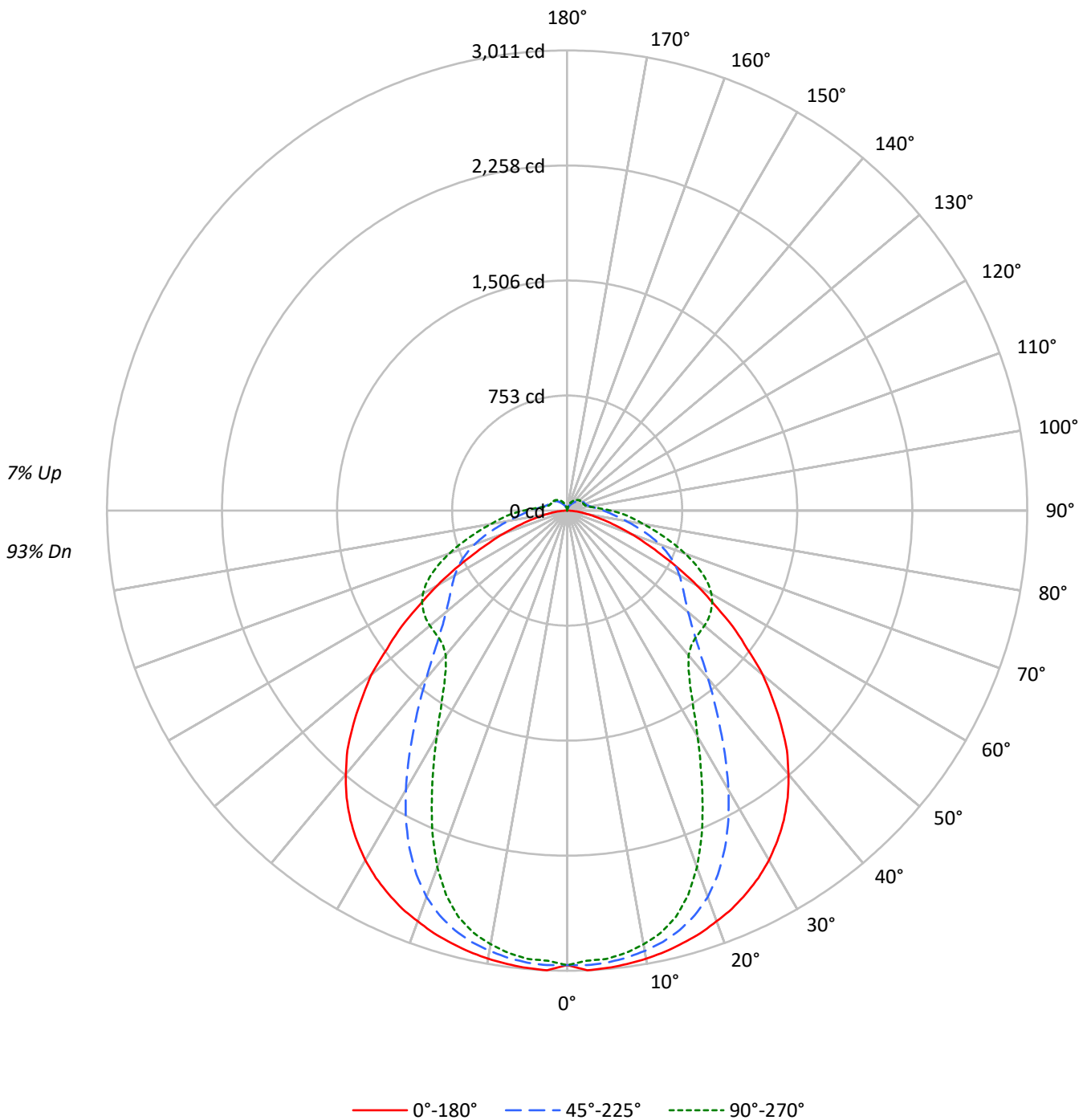
Lumens per Lamp: N/A  
Luminaire Lumens: 7478.0 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 62  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	24030	24030	24030
5°	24307	23499	23131
10°	24298	22849	22179
15°	24306	22083	20914
20°	24317	20945	18782
25°	24327	19193	15906
30°	24211	16888	13082
35°	23865	14369	10963
40°	23167	12169	9911
45°	21940	10576	9836
50°	20268	9668	10181
55°	17847	9292	10537
60°	15058	9160	10682
65°	12112	8957	10350
70°	9728	8495	9545
75°	7334	7689	8470
80°	5416	6904	7535
85°	3621	6513	6930



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.3	3.8
10°-20°	795.1	10.6
20°-30°	1111.5	14.9
30°-40°	1153.0	15.4
40°-50°	1065.1	14.2
50°-60°	951.0	12.7
60°-70°	770.7	10.3
70°-80°	512.6	6.9
80°-90°	293.6	3.9
90°-100°	162.4	2.2
100°-110°	110.0	1.5
110°-120°	91.6	1.2
120°-130°	74.4	1.0
130°-140°	53.7	0.7
140°-150°	32.4	0.4
150°-160°	15.6	0.2
160°-170°	4.0	0.1
170°-180°	0.0	0.0
0°-30°	2188.0	29.3
0°-40°	3341.0	44.7
0°-60°	5357.1	71.6
0°-90°	6934.0	92.7
90°-120°	364.0	4.9
90°-150°	524.5	7.0
90°-180°	544.0	7.3
0°-180°	7478.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2974	2974	2974	2974	2974	
5°	3005	2954	2970	2949	2945	286
15°	2930	2868	2843	2778	2751	828
25°	2768	2645	2441	2185	2096	1276
35°	2472	2201	1750	1469	1403	1542
45°	1980	1569	1192	1149	1184	1522
55°	1323	1000	930	1082	1149	1177
65°	676	605	757	928	977	683
75°	262	328	510	626	651	288
85°	53	152	301	385	395	61
90°	3	107	238	287	284	4
95°	3	90	189	202	195	2
105°	1	79	136	132	125	1
115°	1	71	120	119	115	1
125°	1	61	106	111	109	1
135°	3	45	84	98	98	2
145°	3	28	58	76	81	2
155°	3	18	36	48	58	1
165°	3	10	18	23	31	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2973.6	2973.6	2973.6	2973.6	2973.6
2.5°	3011.0	2961.9	2977.4	2964.5	2947.7
5°	3004.6	2954.2	2969.7	2949.0	2945.1
7.5°	2992.9	2942.5	2951.6	2927.0	2920.6
10°	2977.4	2924.4	2925.7	2890.8	2881.8
12.5°	2956.8	2898.6	2890.8	2843.0	2830.1
15°	2929.6	2867.6	2843.0	2778.4	2751.3
17.5°	2899.9	2827.5	2777.1	2677.6	2635.0
20°	2859.8	2778.4	2690.5	2539.3	2482.5
22.5°	2819.8	2719.0	2578.1	2376.5	2300.3
25°	2768.1	2645.3	2441.1	2185.3	2096.1
27.5°	2709.9	2558.7	2283.5	1988.8	1893.2
30°	2641.4	2454.1	2110.3	1796.3	1705.8
32.5°	2561.3	2336.5	1928.1	1623.1	1539.1
35°	2472.1	2200.8	1749.8	1469.3	1403.4
37.5°	2370.1	2052.2	1584.3	1345.3	1302.6
40°	2253.7	1890.6	1431.9	1249.6	1235.4
42.5°	2128.4	1733.0	1301.3	1187.6	1200.5
45°	1979.8	1568.8	1191.5	1148.8	1183.7
47.5°	1823.4	1408.6	1102.3	1126.9	1177.3
50°	1672.2	1260.0	1032.5	1112.7	1172.1
52.5°	1484.8	1126.9	977.0	1099.7	1164.4
55°	1323.3	1000.2	930.4	1081.6	1148.8
57.5°	1137.2	886.5	889.1	1058.4	1125.6
60°	982.1	783.1	849.0	1026.1	1090.7
62.5°	824.5	690.1	805.1	983.4	1041.6
65°	675.9	604.8	757.3	927.9	977.0
67.5°	551.8	527.3	703.0	860.7	902.0
70°	447.1	456.2	643.6	785.7	820.6
72.5°	343.7	390.3	578.9	705.6	735.3
75°	262.3	328.2	510.5	625.5	651.3
77.5°	193.8	274.0	448.4	553.1	575.1
80°	137.0	226.2	390.3	489.8	506.6
82.5°	91.8	186.1	342.5	432.9	448.4
85°	53.0	152.5	301.1	385.1	395.4
87.5°	22.0	126.6	267.5	336.0	341.2
90°	2.6	107.3	237.8	286.9	284.3
92.5°	2.6	96.9	211.9	240.4	233.9
95°	2.6	90.5	188.7	201.6	195.1
97.5°	2.6	86.6	168.0	173.2	166.7
100°	1.3	84.0	153.8	153.8	147.3
102.5°	1.3	81.4	143.4	139.6	134.4
105°	1.3	78.8	135.7	131.8	125.4
107.5°	1.3	77.5	130.5	126.6	120.2
110°	1.3	75.0	126.6	122.8	117.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	73.7	124.1	121.5	115.0
115°	1.3	71.1	120.2	118.9	115.0
117.5°	1.3	68.5	117.6	117.6	113.7
120°	1.3	65.9	113.7	116.3	112.4
122.5°	1.3	63.3	109.8	113.7	109.8
125°	1.3	60.7	106.0	111.1	108.6
127.5°	2.6	56.9	100.8	108.6	106.0
130°	1.3	53.0	95.6	106.0	104.7
132.5°	2.6	49.1	90.5	102.1	102.1
135°	2.6	45.2	84.0	98.2	98.2
137.5°	2.6	40.1	77.5	93.0	94.3
140°	2.6	36.2	71.1	87.9	90.5
142.5°	2.6	32.3	64.6	82.7	86.6
145°	2.6	28.4	58.2	76.2	81.4
147.5°	2.6	25.8	51.7	68.5	76.2
150°	2.6	22.0	46.5	62.0	69.8
152.5°	2.6	19.4	41.4	55.6	64.6
155°	2.6	18.1	36.2	47.8	58.2
157.5°	2.6	15.5	31.0	41.4	51.7
160°	2.6	12.9	25.8	36.2	43.9
162.5°	2.6	11.6	22.0	29.7	38.8
165°	2.6	10.3	18.1	23.3	31.0
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)