

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-LD5-30SL-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-LD5-30SL-SLN-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

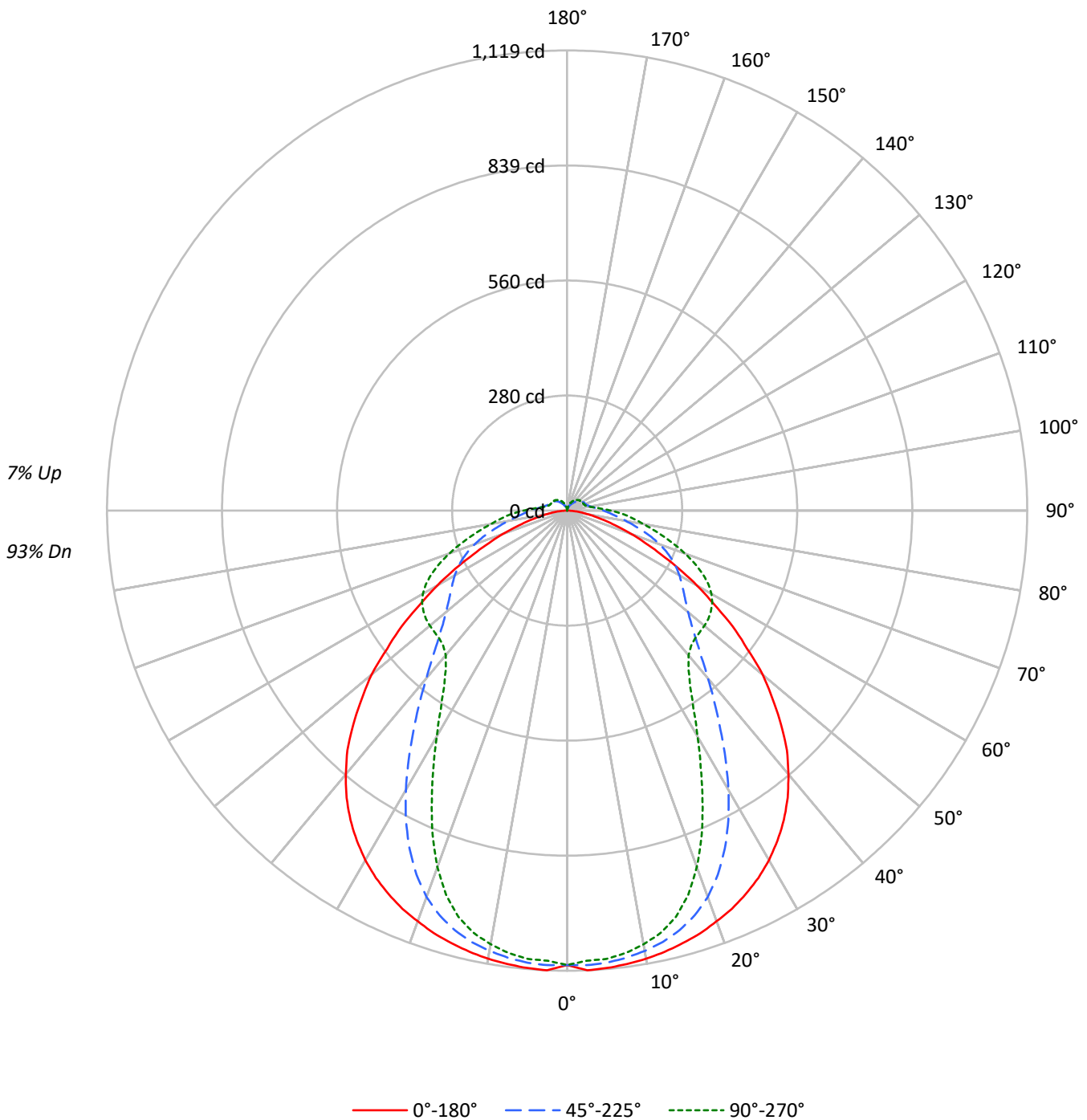
Lumens per Lamp: N/A  
Luminaire Lumens: 2779.0 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 21  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	79	79	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	66	66	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	57	57	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	49	49	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	43	43	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	39	39	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	35	35	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	31	31	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	28	28	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	26	26	26	24

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

	0°	45°	90°
0°	8930	8930	8930
5°	9033	8733	8596
10°	9030	8492	8242
15°	9033	8207	7772
20°	9037	7784	6980
25°	9041	7133	5911
30°	8997	6276	4861
35°	8869	5340	4074
40°	8609	4522	3683
45°	8153	3930	3655
50°	7532	3593	3784
55°	6633	3454	3915
60°	5596	3404	3970
65°	4502	3328	3847
70°	3616	3157	3548
75°	2726	2857	3147
80°	2012	2565	2801
85°	1346	2420	2576



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.5	3.8
10°-20°	295.5	10.6
20°-30°	413.1	14.9
30°-40°	428.5	15.4
40°-50°	395.8	14.2
50°-60°	353.4	12.7
60°-70°	286.4	10.3
70°-80°	190.5	6.9
80°-90°	109.1	3.9
90°-100°	60.4	2.2
100°-110°	40.9	1.5
110°-120°	34.0	1.2
120°-130°	27.7	1.0
130°-140°	19.9	0.7
140°-150°	12.0	0.4
150°-160°	5.8	0.2
160°-170°	1.5	0.1
170°-180°	0.0	0.0
0°-30°	813.1	29.3
0°-40°	1241.6	44.7
0°-60°	1990.8	71.6
0°-90°	2576.8	92.7
90°-120°	135.3	4.9
90°-150°	194.9	7.0
90°-180°	202.0	7.3
0°-180°	2779.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1117	1098	1104	1096	1094	106
15°	1089	1066	1056	1032	1022	308
25°	1029	983	907	812	779	474
35°	919	818	650	546	522	573
45°	736	583	443	427	440	566
55°	492	372	346	402	427	437
65°	251	225	281	345	363	254
75°	98	122	190	232	242	107
85°	20	57	112	143	147	23
90°	1	40	88	107	106	2
95°	1	34	70	75	72	1
105°	0	29	50	49	47	1
115°	0	26	45	44	43	0
125°	0	23	39	41	40	1
135°	1	17	31	36	36	1
145°	1	11	22	28	30	1
155°	1	7	13	18	22	0
165°	1	4	7	9	12	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°	1105.0	1105.0	1105.0	1105.0	1105.0
2.5°	1119.0	1100.7	1106.5	1101.7	1095.4
5°	1116.6	1097.8	1103.6	1095.9	1094.5
7.5°	1112.2	1093.5	1096.9	1087.8	1085.4
10°	1106.5	1086.8	1087.3	1074.3	1070.9
12.5°	1098.8	1077.2	1074.3	1056.5	1051.7
15°	1088.7	1065.7	1056.5	1032.5	1022.4
17.5°	1077.7	1050.8	1032.0	995.1	979.2
20°	1062.8	1032.5	999.9	943.7	922.5
22.5°	1047.9	1010.4	958.1	883.2	854.8
25°	1028.7	983.1	907.2	812.1	779.0
27.5°	1007.1	950.9	848.6	739.1	703.6
30°	981.6	912.0	784.2	667.5	633.9
32.5°	951.8	868.3	716.5	603.2	572.0
35°	918.7	817.9	650.3	546.0	521.5
37.5°	880.8	762.6	588.8	499.9	484.1
40°	837.5	702.6	532.1	464.4	459.1
42.5°	791.0	644.0	483.6	441.3	446.1
45°	735.7	583.0	442.8	426.9	439.9
47.5°	677.6	523.5	409.6	418.8	437.5
50°	621.4	468.2	383.7	413.5	435.6
52.5°	551.8	418.8	363.1	408.7	432.7
55°	491.8	371.7	345.8	402.0	426.9
57.5°	422.6	329.4	330.4	393.3	418.3
60°	365.0	291.0	315.5	381.3	405.3
62.5°	306.4	256.5	299.2	365.5	387.1
65°	251.2	224.8	281.4	344.8	363.1
67.5°	205.1	195.9	261.3	319.8	335.2
70°	166.2	169.5	239.2	292.0	305.0
72.5°	127.7	145.0	215.1	262.2	273.3
75°	97.5	122.0	189.7	232.4	242.0
77.5°	72.0	101.8	166.6	205.5	213.7
80°	50.9	84.0	145.0	182.0	188.3
82.5°	34.1	69.2	127.3	160.9	166.6
85°	19.7	56.7	111.9	143.1	147.0
87.5°	8.2	47.1	99.4	124.9	126.8
90°	1.0	39.9	88.4	106.6	105.7
92.5°	1.0	36.0	78.8	89.3	86.9
95°	1.0	33.6	70.1	74.9	72.5
97.5°	1.0	32.2	62.4	64.4	62.0
100°	0.5	31.2	57.1	57.1	54.7
102.5°	0.5	30.3	53.3	51.9	49.9
105°	0.5	29.3	50.4	49.0	46.6
107.5°	0.5	28.8	48.5	47.1	44.7
110°	0.5	27.9	47.1	45.6	43.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	27.4	46.1	45.1	42.7
115°	0.5	26.4	44.7	44.2	42.7
117.5°	0.5	25.5	43.7	43.7	42.3
120°	0.5	24.5	42.3	43.2	41.8
122.5°	0.5	23.5	40.8	42.3	40.8
125°	0.5	22.6	39.4	41.3	40.3
127.5°	1.0	21.1	37.5	40.3	39.4
130°	0.5	19.7	35.5	39.4	38.9
132.5°	1.0	18.2	33.6	37.9	37.9
135°	1.0	16.8	31.2	36.5	36.5
137.5°	1.0	14.9	28.8	34.6	35.1
140°	1.0	13.4	26.4	32.7	33.6
142.5°	1.0	12.0	24.0	30.7	32.2
145°	1.0	10.6	21.6	28.3	30.3
147.5°	1.0	9.6	19.2	25.5	28.3
150°	1.0	8.2	17.3	23.1	25.9
152.5°	1.0	7.2	15.4	20.7	24.0
155°	1.0	6.7	13.4	17.8	21.6
157.5°	1.0	5.8	11.5	15.4	19.2
160°	1.0	4.8	9.6	13.4	16.3
162.5°	1.0	4.3	8.2	11.0	14.4
165°	1.0	3.8	6.7	8.6	11.5
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)