

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-LD5-18SL-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-LD5-18SL-SLN-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

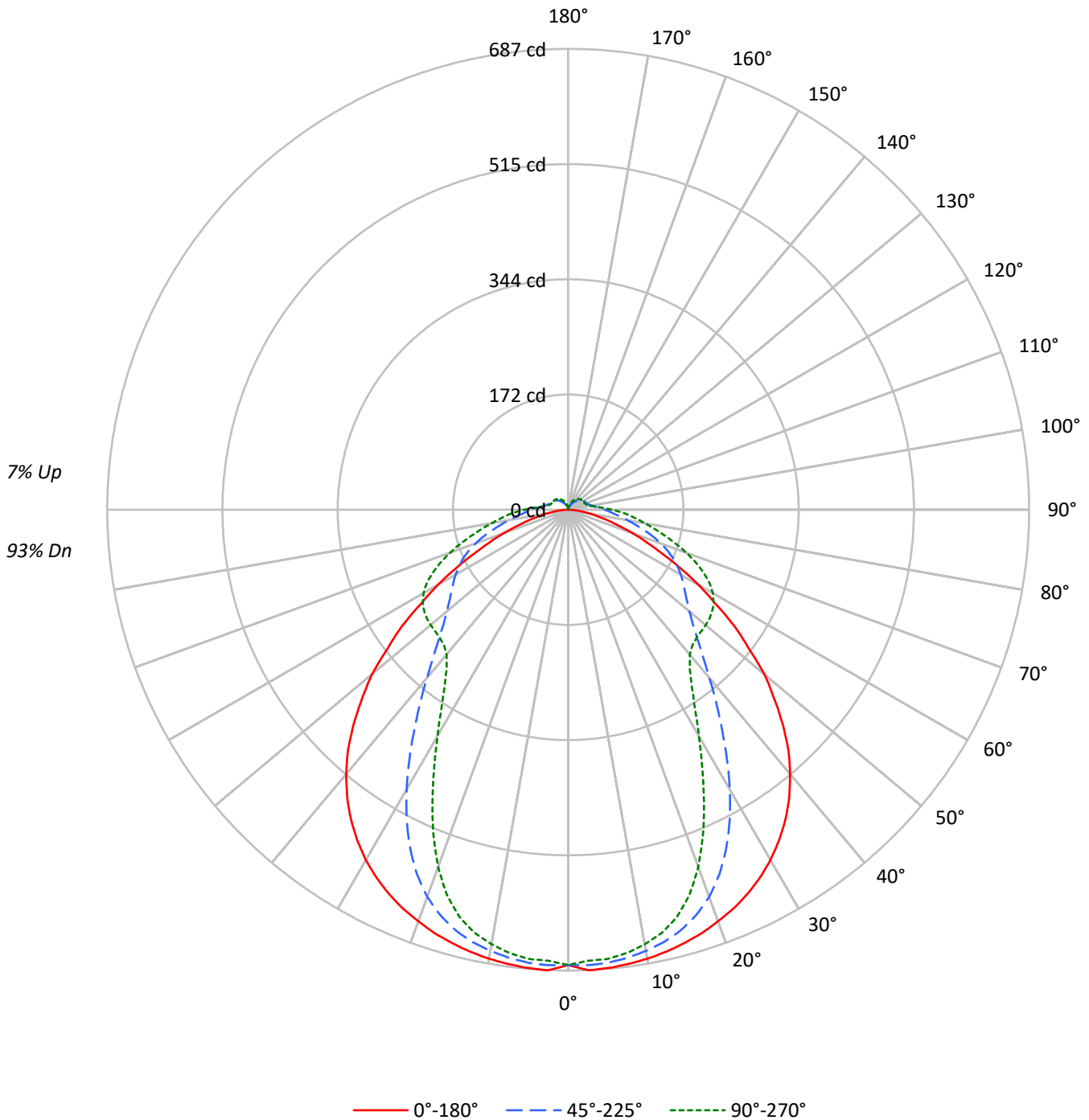
Lumens per Lamp: N/A  
Luminaire Lumens: 1707.0 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 13  
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				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°	5485	5485	5485
5°	5549	5364	5280
10°	5547	5216	5063
15°	5548	5041	4774
20°	5551	4782	4288
25°	5553	4381	3631
30°	5527	3855	2986
35°	5448	3280	2503
40°	5289	2777	2262
45°	5008	2414	2245
50°	4626	2207	2324
55°	4074	2121	2405
60°	3437	2091	2439
65°	2765	2045	2362
70°	2222	1939	2179
75°	1675	1755	1934
80°	1237	1576	1719
85°	827	1486	1583



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.2	3.8
10°-20°	181.5	10.6
20°-30°	253.7	14.9
30°-40°	263.2	15.4
40°-50°	243.1	14.2
50°-60°	217.1	12.7
60°-70°	175.9	10.3
70°-80°	117.0	6.9
80°-90°	67.0	3.9
90°-100°	37.1	2.2
100°-110°	25.1	1.5
110°-120°	20.9	1.2
120°-130°	17.0	1.0
130°-140°	12.2	0.7
140°-150°	7.4	0.4
150°-160°	3.5	0.2
160°-170°	0.9	0.1
170°-180°	0.0	0.0
0°-30°	499.5	29.3
0°-40°	762.6	44.7
0°-60°	1222.9	71.6
0°-90°	1582.8	92.7
90°-120°	83.1	4.9
90°-150°	119.7	7.0
90°-180°	124.0	7.3
0°-180°	1707.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	679	679	679	679	679	
5°	686	674	678	673	672	65
15°	669	655	649	634	628	189
25°	632	604	557	499	478	291
35°	564	502	399	335	320	352
45°	452	358	272	262	270	347
55°	302	228	212	247	262	269
65°	154	138	173	212	223	156
75°	60	75	116	143	149	66
85°	12	35	69	88	90	14
90°	1	24	54	66	65	1
95°	1	21	43	46	44	0
105°	0	18	31	30	29	0
115°	0	16	27	27	26	0
125°	0	14	24	25	25	0
135°	1	10	19	22	22	0
145°	1	6	13	17	19	0
155°	1	4	8	11	13	0
165°	1	2	4	5	7	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°	678.8	678.8	678.8	678.8	678.8
2.5°	687.3	676.1	679.7	676.7	672.9
5°	685.9	674.3	677.9	673.2	672.3
7.5°	683.2	671.7	673.8	668.2	666.7
10°	679.7	667.6	667.9	659.9	657.8
12.5°	674.9	661.7	659.9	649.0	646.0
15°	668.7	654.6	649.0	634.2	628.0
17.5°	662.0	645.4	633.9	611.2	601.5
20°	652.8	634.2	614.2	579.7	566.7
22.5°	643.7	620.7	588.5	542.5	525.1
25°	631.9	603.8	557.2	498.8	478.5
27.5°	618.6	584.1	521.2	454.0	432.2
30°	603.0	560.2	481.7	410.0	389.4
32.5°	584.7	533.3	440.1	370.5	351.3
35°	564.3	502.4	399.4	335.4	320.4
37.5°	541.0	468.4	361.7	307.1	297.3
40°	514.5	431.6	326.8	285.3	282.0
42.5°	485.8	395.6	297.1	271.1	274.0
45°	451.9	358.1	272.0	262.2	270.2
47.5°	416.2	321.5	251.6	257.2	268.7
50°	381.7	287.6	235.7	254.0	267.6
52.5°	338.9	257.2	223.0	251.0	265.8
55°	302.1	228.3	212.4	246.9	262.2
57.5°	259.6	202.4	203.0	241.6	256.9
60°	224.2	178.8	193.8	234.2	249.0
62.5°	188.2	157.5	183.8	224.5	237.8
65°	154.3	138.1	172.9	211.8	223.0
67.5°	126.0	120.4	160.5	196.5	205.9
70°	102.1	104.1	146.9	179.4	187.3
72.5°	78.5	89.1	132.2	161.1	167.8
75°	59.9	74.9	116.5	142.8	148.7
77.5°	44.2	62.5	102.4	126.3	131.3
80°	31.3	51.6	89.1	111.8	115.6
82.5°	20.9	42.5	78.2	98.8	102.4
85°	12.1	34.8	68.7	87.9	90.3
87.5°	5.0	28.9	61.1	76.7	77.9
90°	0.6	24.5	54.3	65.5	64.9
92.5°	0.6	22.1	48.4	54.9	53.4
95°	0.6	20.6	43.1	46.0	44.5
97.5°	0.6	19.8	38.3	39.5	38.1
100°	0.3	19.2	35.1	35.1	33.6
102.5°	0.3	18.6	32.7	31.9	30.7
105°	0.3	18.0	31.0	30.1	28.6
107.5°	0.3	17.7	29.8	28.9	27.4
110°	0.3	17.1	28.9	28.0	26.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	16.8	28.3	27.7	26.3
115°	0.3	16.2	27.4	27.1	26.3
117.5°	0.3	15.6	26.8	26.8	26.0
120°	0.3	15.0	26.0	26.5	25.7
122.5°	0.3	14.5	25.1	26.0	25.1
125°	0.3	13.9	24.2	25.4	24.8
127.5°	0.6	13.0	23.0	24.8	24.2
130°	0.3	12.1	21.8	24.2	23.9
132.5°	0.6	11.2	20.6	23.3	23.3
135°	0.6	10.3	19.2	22.4	22.4
137.5°	0.6	9.1	17.7	21.2	21.5
140°	0.6	8.3	16.2	20.1	20.6
142.5°	0.6	7.4	14.7	18.9	19.8
145°	0.6	6.5	13.3	17.4	18.6
147.5°	0.6	5.9	11.8	15.6	17.4
150°	0.6	5.0	10.6	14.2	15.9
152.5°	0.6	4.4	9.4	12.7	14.7
155°	0.6	4.1	8.3	10.9	13.3
157.5°	0.6	3.5	7.1	9.4	11.8
160°	0.6	2.9	5.9	8.3	10.0
162.5°	0.6	2.7	5.0	6.8	8.8
165°	0.6	2.4	4.1	5.3	7.1
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)