

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-L930-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-L930-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

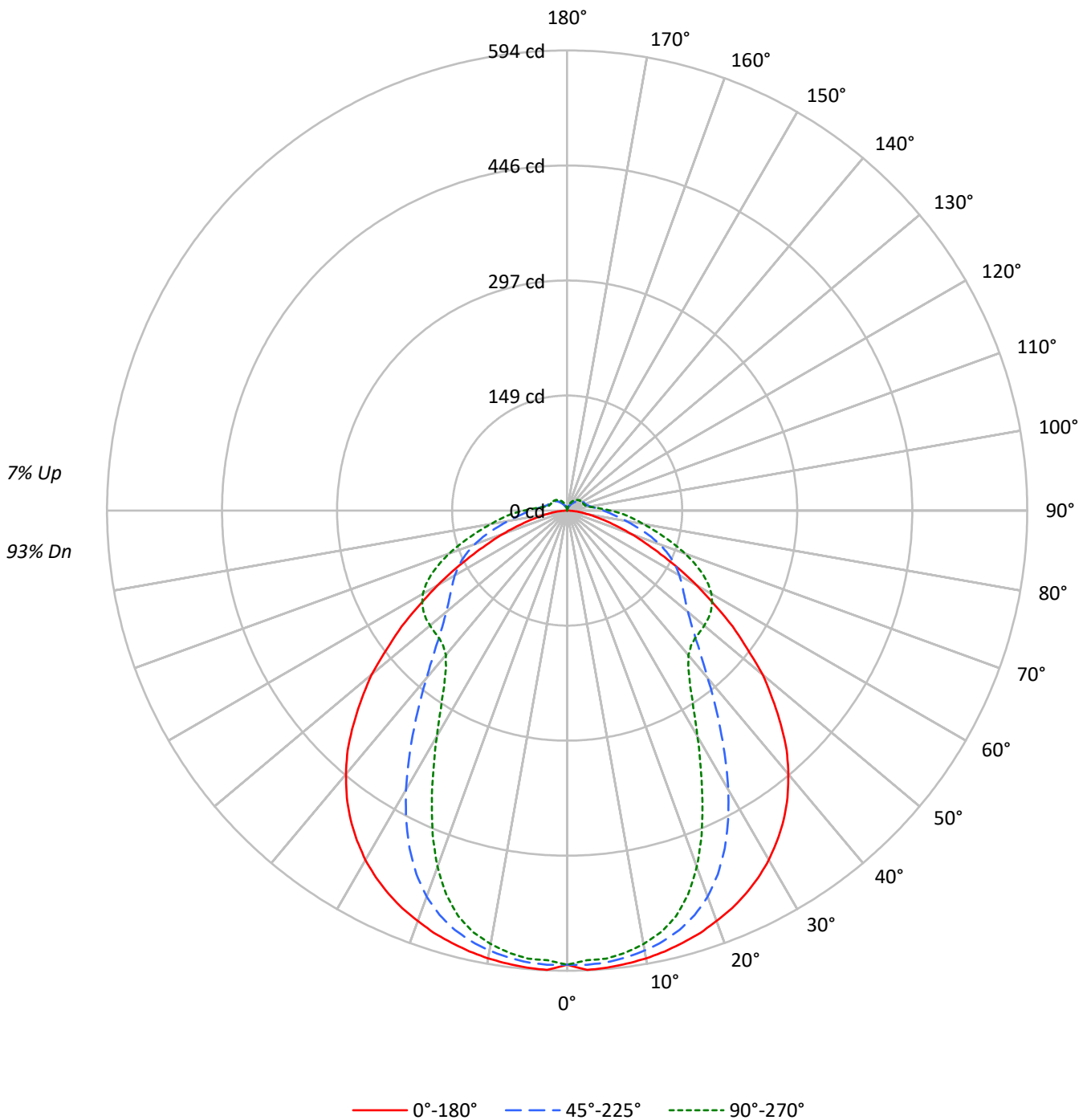
Lumens per Lamp: N/A  
Luminaire Lumens: 1474.0 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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	
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°	4736	4736	4736
5°	4791	4632	4559
10°	4790	4504	4371
15°	4791	4353	4122
20°	4793	4128	3702
25°	4795	3783	3135
30°	4773	3329	2578
35°	4704	2832	2161
40°	4566	2398	1953
45°	4324	2085	1939
50°	3995	1905	2006
55°	3517	1832	2077
60°	2968	1806	2106
65°	2387	1766	2040
70°	1917	1675	1882
75°	1446	1515	1670
80°	1067	1360	1486
85°	710	1285	1365



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.5	3.8
10°-20°	156.7	10.6
20°-30°	219.1	14.9
30°-40°	227.3	15.4
40°-50°	210.0	14.2
50°-60°	187.5	12.7
60°-70°	151.9	10.3
70°-80°	101.0	6.9
80°-90°	57.9	3.9
90°-100°	32.0	2.2
100°-110°	21.7	1.5
110°-120°	18.1	1.2
120°-130°	14.7	1.0
130°-140°	10.6	0.7
140°-150°	6.4	0.4
150°-160°	3.1	0.2
160°-170°	0.8	0.1
170°-180°	0.0	0.0
0°-30°	431.3	29.3
0°-40°	658.5	44.7
0°-60°	1056.0	71.6
0°-90°	1366.8	92.7
90°-120°	71.7	4.9
90°-150°	103.4	7.0
90°-180°	107.0	7.3
0°-180°	1474.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	592	582	585	581	580	56
15°	578	565	560	548	542	163
25°	546	521	481	431	413	251
35°	487	434	345	290	277	304
45°	390	309	235	226	233	300
55°	261	197	183	213	226	232
65°	133	119	149	183	193	135
75°	52	65	101	123	128	57
85°	10	30	59	76	78	12
90°	0	21	47	56	56	1
95°	0	18	37	40	38	0
105°	0	16	27	26	25	0
115°	0	14	24	23	23	0
125°	0	12	21	22	21	0
135°	0	9	17	19	19	0
145°	0	6	12	15	16	0
155°	0	4	7	9	12	0
165°	0	2	4	5	6	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°	586.1	586.1	586.1	586.1	586.1
2.5°	593.5	583.8	586.9	584.3	581.0
5°	592.2	582.3	585.4	581.3	580.5
7.5°	589.9	580.0	581.8	577.0	575.7
10°	586.9	576.4	576.7	569.8	568.0
12.5°	582.8	571.3	569.8	560.4	557.8
15°	577.5	565.2	560.4	547.7	542.3
17.5°	571.6	557.3	547.4	527.8	519.4
20°	563.7	547.7	530.3	500.5	489.3
22.5°	555.8	535.9	508.2	468.4	453.4
25°	545.6	521.4	481.2	430.7	413.2
27.5°	534.2	504.4	450.1	392.0	373.2
30°	520.7	483.7	416.0	354.1	336.2
32.5°	504.9	460.5	380.0	319.9	303.4
35°	487.3	433.8	344.9	289.6	276.6
37.5°	467.2	404.5	312.3	265.2	256.8
40°	444.2	372.7	282.2	246.3	243.5
42.5°	419.5	341.6	256.5	234.1	236.6
45°	390.2	309.2	234.9	226.5	233.3
47.5°	359.4	277.6	217.3	222.1	232.1
50°	329.6	248.4	203.5	219.3	231.0
52.5°	292.7	222.1	192.6	216.8	229.5
55°	260.8	197.2	183.4	213.2	226.5
57.5°	224.2	174.7	175.3	208.6	221.9
60°	193.6	154.4	167.4	202.3	215.0
62.5°	162.5	136.0	158.7	193.8	205.3
65°	133.2	119.2	149.3	182.9	192.6
67.5°	108.8	103.9	138.6	169.6	177.8
70°	88.1	89.9	126.9	154.9	161.8
72.5°	67.8	76.9	114.1	139.1	144.9
75°	51.7	64.7	100.6	123.3	128.4
77.5°	38.2	54.0	88.4	109.0	113.4
80°	27.0	44.6	76.9	96.5	99.9
82.5°	18.1	36.7	67.5	85.3	88.4
85°	10.4	30.1	59.4	75.9	77.9
87.5°	4.3	25.0	52.7	66.2	67.2
90°	0.5	21.1	46.9	56.5	56.0
92.5°	0.5	19.1	41.8	47.4	46.1
95°	0.5	17.8	37.2	39.7	38.5
97.5°	0.5	17.1	33.1	34.1	32.9
100°	0.3	16.6	30.3	30.3	29.0
102.5°	0.3	16.0	28.3	27.5	26.5
105°	0.3	15.5	26.7	26.0	24.7
107.5°	0.3	15.3	25.7	25.0	23.7
110°	0.3	14.8	25.0	24.2	23.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	14.5	24.5	23.9	22.7
115°	0.3	14.0	23.7	23.4	22.7
117.5°	0.3	13.5	23.2	23.2	22.4
120°	0.3	13.0	22.4	22.9	22.2
122.5°	0.3	12.5	21.7	22.4	21.7
125°	0.3	12.0	20.9	21.9	21.4
127.5°	0.5	11.2	19.9	21.4	20.9
130°	0.3	10.4	18.8	20.9	20.6
132.5°	0.5	9.7	17.8	20.1	20.1
135°	0.5	8.9	16.6	19.4	19.4
137.5°	0.5	7.9	15.3	18.3	18.6
140°	0.5	7.1	14.0	17.3	17.8
142.5°	0.5	6.4	12.7	16.3	17.1
145°	0.5	5.6	11.5	15.0	16.0
147.5°	0.5	5.1	10.2	13.5	15.0
150°	0.5	4.3	9.2	12.2	13.8
152.5°	0.5	3.8	8.2	11.0	12.7
155°	0.5	3.6	7.1	9.4	11.5
157.5°	0.5	3.1	6.1	8.2	10.2
160°	0.5	2.5	5.1	7.1	8.7
162.5°	0.5	2.3	4.3	5.9	7.6
165°	0.5	2.0	3.6	4.6	6.1
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)