

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-L830-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-L830-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

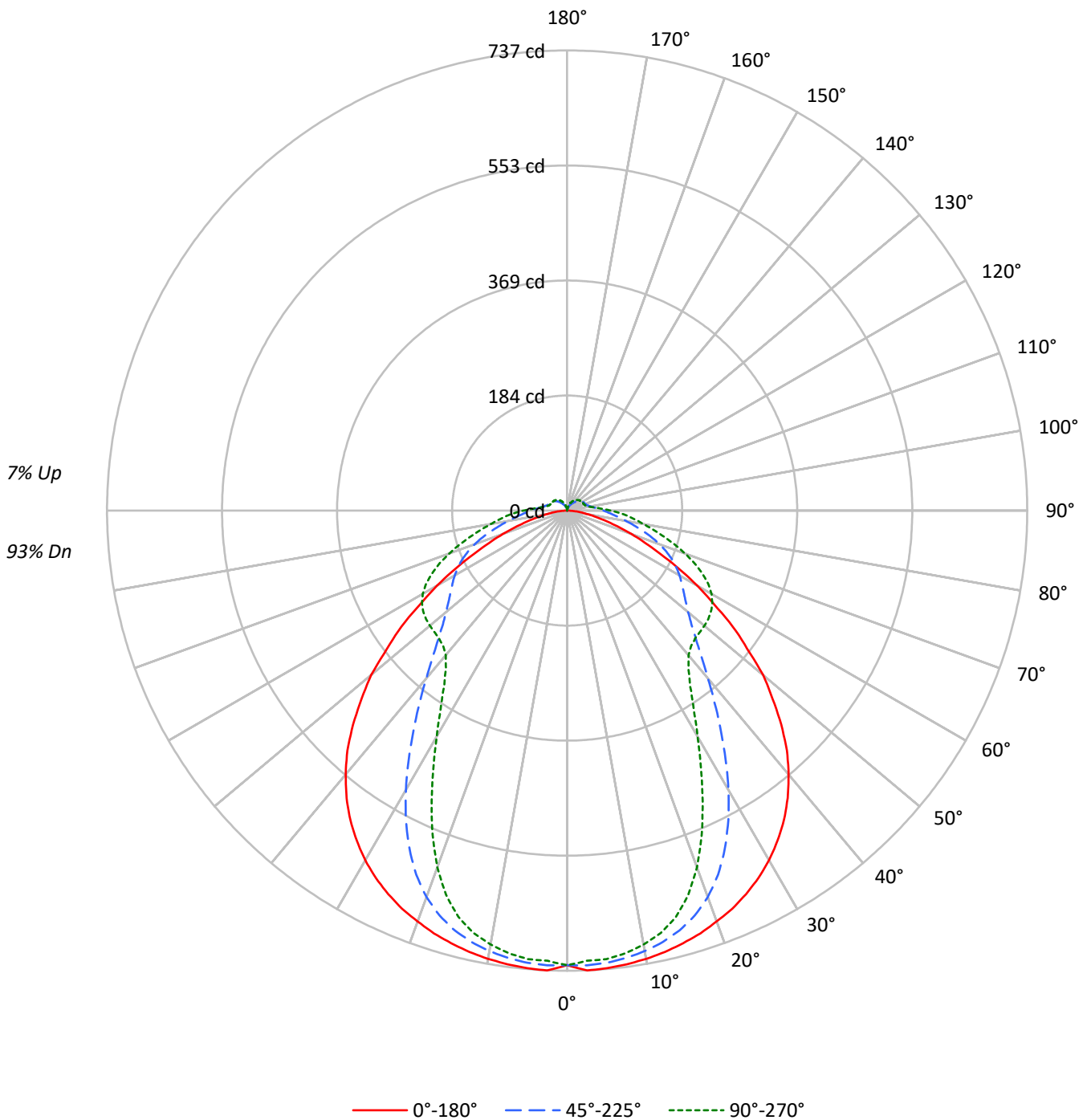
Lumens per Lamp: N/A  
Luminaire Lumens: 1831.0 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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°	5884	5884	5884
5°	5952	5753	5663
10°	5949	5595	5430
15°	5951	5407	5121
20°	5954	5129	4599
25°	5957	4699	3894
30°	5928	4135	3203
35°	5843	3518	2684
40°	5672	2980	2427
45°	5373	2589	2408
50°	4962	2367	2493
55°	4370	2275	2580
60°	3687	2243	2616
65°	2966	2193	2534
70°	2383	2080	2337
75°	1795	1883	2074
80°	1324	1691	1844
85°	888	1594	1696



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.9	3.8
10°-20°	194.7	10.6
20°-30°	272.2	14.9
30°-40°	282.3	15.4
40°-50°	260.8	14.2
50°-60°	232.8	12.7
60°-70°	188.7	10.3
70°-80°	125.5	6.9
80°-90°	71.9	3.9
90°-100°	39.8	2.2
100°-110°	26.9	1.5
110°-120°	22.4	1.2
120°-130°	18.2	1.0
130°-140°	13.1	0.7
140°-150°	7.9	0.4
150°-160°	3.8	0.2
160°-170°	1.0	0.1
170°-180°	0.0	0.0
0°-30°	535.7	29.3
0°-40°	818.0	44.7
0°-60°	1311.7	71.6
0°-90°	1697.8	92.7
90°-120°	89.1	4.9
90°-150°	128.4	7.0
90°-180°	133.0	7.3
0°-180°	1831.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	736	723	727	722	721	70
15°	717	702	696	680	674	203
25°	678	648	598	535	513	312
35°	605	539	428	360	344	378
45°	485	384	292	281	290	373
55°	324	245	228	265	281	288
65°	166	148	185	227	239	167
75°	64	80	125	153	160	70
85°	13	37	74	94	97	15
90°	1	26	58	70	70	1
95°	1	22	46	49	48	0
105°	0	19	33	32	31	0
115°	0	17	29	29	28	0
125°	0	15	26	27	27	0
135°	1	11	21	24	24	0
145°	1	7	14	19	20	0
155°	1	4	9	12	14	0
165°	1	2	4	6	8	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°	728.1	728.1	728.1	728.1	728.1
2.5°	737.3	725.2	729.0	725.9	721.8
5°	735.7	723.3	727.1	722.1	721.1
7.5°	732.8	720.5	722.7	716.7	715.1
10°	729.0	716.1	716.4	707.8	705.6
12.5°	724.0	709.7	707.8	696.1	693.0
15°	717.3	702.1	696.1	680.3	673.7
17.5°	710.0	692.3	680.0	655.6	645.2
20°	700.2	680.3	658.8	621.8	607.8
22.5°	690.4	665.7	631.3	581.9	563.2
25°	677.8	647.7	597.7	535.1	513.2
27.5°	663.5	626.5	559.1	487.0	463.6
30°	646.8	600.9	516.7	439.8	417.7
32.5°	627.1	572.1	472.1	397.4	376.9
35°	605.3	538.9	428.4	359.8	343.6
37.5°	580.3	502.5	387.9	329.4	318.9
40°	551.8	462.9	350.6	306.0	302.5
42.5°	521.1	424.3	318.6	290.8	294.0
45°	484.8	384.1	291.7	281.3	289.8
47.5°	446.5	344.9	269.9	275.9	288.3
50°	409.4	308.5	252.8	272.4	287.0
52.5°	363.6	275.9	239.2	269.3	285.1
55°	324.0	244.9	227.8	264.8	281.3
57.5°	278.4	217.1	217.7	259.1	275.6
60°	240.5	191.7	207.9	251.2	267.1
62.5°	201.9	169.0	197.1	240.8	255.0
65°	165.5	148.1	185.4	227.2	239.2
67.5°	135.1	129.1	172.1	210.7	220.9
70°	109.5	111.7	157.6	192.4	200.9
72.5°	84.2	95.6	141.8	172.8	180.0
75°	64.2	80.4	125.0	153.1	159.5
77.5°	47.5	67.1	109.8	135.4	140.8
80°	33.5	55.4	95.6	119.9	124.0
82.5°	22.5	45.6	83.9	106.0	109.8
85°	13.0	37.3	73.7	94.3	96.8
87.5°	5.4	31.0	65.5	82.3	83.5
90°	0.6	26.3	58.2	70.2	69.6
92.5°	0.6	23.7	51.9	58.9	57.3
95°	0.6	22.1	46.2	49.4	47.8
97.5°	0.6	21.2	41.1	42.4	40.8
100°	0.3	20.6	37.7	37.7	36.1
102.5°	0.3	19.9	35.1	34.2	32.9
105°	0.3	19.3	33.2	32.3	30.7
107.5°	0.3	19.0	32.0	31.0	29.4
110°	0.3	18.4	31.0	30.1	28.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	18.0	30.4	29.7	28.2
115°	0.3	17.4	29.4	29.1	28.2
117.5°	0.3	16.8	28.8	28.8	27.8
120°	0.3	16.1	27.8	28.5	27.5
122.5°	0.3	15.5	26.9	27.8	26.9
125°	0.3	14.9	25.9	27.2	26.6
127.5°	0.6	13.9	24.7	26.6	25.9
130°	0.3	13.0	23.4	25.9	25.6
132.5°	0.6	12.0	22.1	25.0	25.0
135°	0.6	11.1	20.6	24.0	24.0
137.5°	0.6	9.8	19.0	22.8	23.1
140°	0.6	8.9	17.4	21.5	22.1
142.5°	0.6	7.9	15.8	20.3	21.2
145°	0.6	7.0	14.2	18.7	19.9
147.5°	0.6	6.3	12.7	16.8	18.7
150°	0.6	5.4	11.4	15.2	17.1
152.5°	0.6	4.7	10.1	13.6	15.8
155°	0.6	4.4	8.9	11.7	14.2
157.5°	0.6	3.8	7.6	10.1	12.7
160°	0.6	3.2	6.3	8.9	10.8
162.5°	0.6	2.8	5.4	7.3	9.5
165°	0.6	2.5	4.4	5.7	7.6
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)