

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: P290369

Luminaire Tested: **4SSRK-SLN-40-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290369  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-SLN-40-L835-CD1-U  
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4204.4 lumens  
Efficiency: N/A  
Efficacy: 151.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

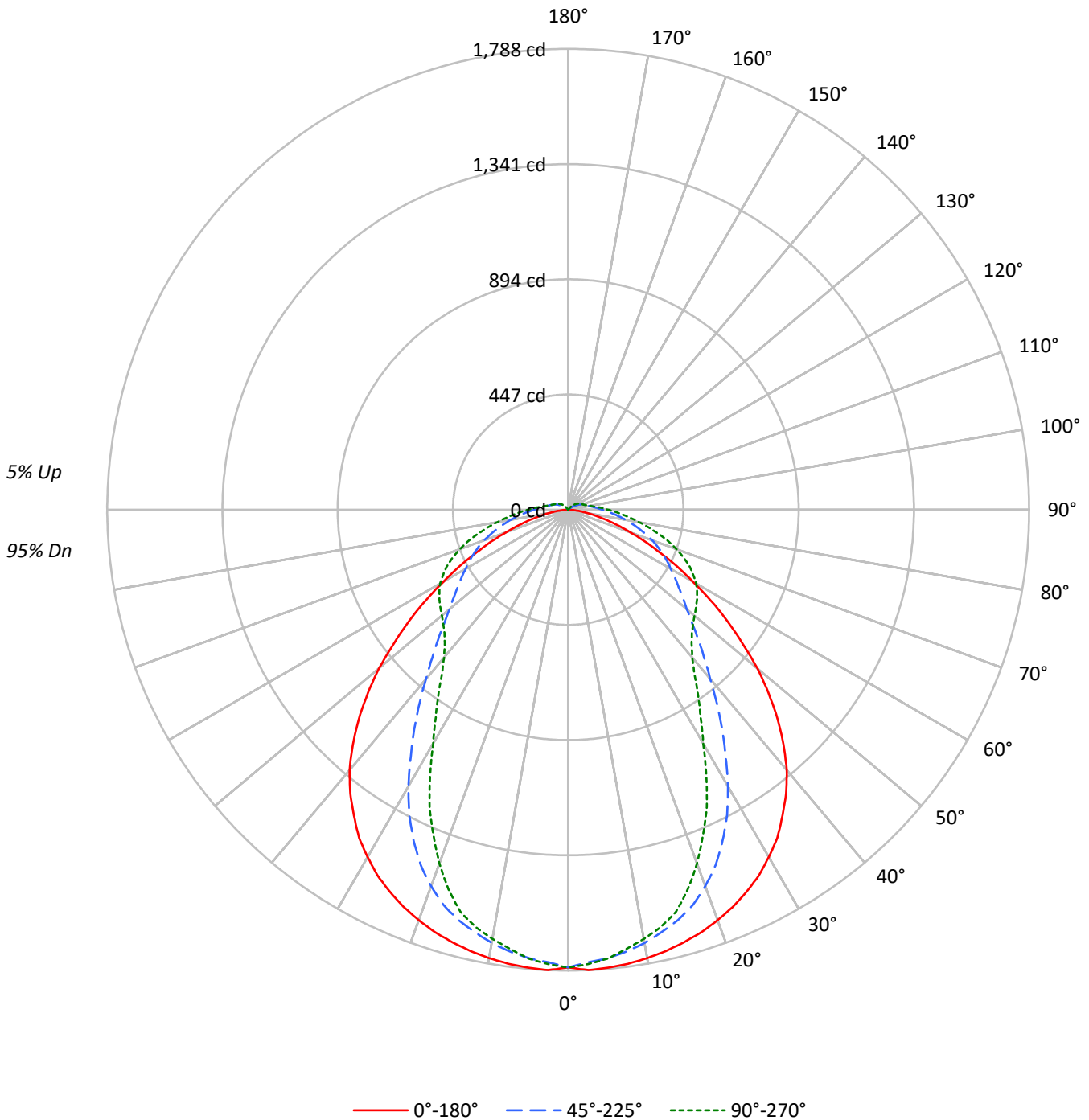
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	108	108	108		103	103	103		98	98	98	95
1	107	102	98	94	104	100	96	92	94	91	88		90	87	85		85	83	81	79
2	98	90	83	77	95	87	81	76	83	78	73		79	75	71		75	72	69	66
3	90	79	71	65	87	77	70	64	74	67	62		70	65	60		67	63	59	56
4	82	71	62	56	80	69	61	55	66	59	54		63	57	52		60	55	51	49
5	76	64	55	48	74	62	54	48	60	52	47		57	51	46		55	49	45	43
6	71	58	49	43	68	56	48	42	54	47	42		52	46	41		50	45	40	38
7	66	53	44	38	64	52	44	38	50	42	37		48	41	37		46	40	36	34
8	61	48	40	34	60	47	40	34	46	39	34		44	38	33		43	37	33	31
9	57	44	37	31	56	44	36	31	42	35	31		41	35	30		40	34	30	28
10	54	41	34	28	53	41	33	28	39	33	28		38	32	28		37	31	27	26

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

	0°	45°	90°
0°	114686	114686	114686
5°	115210	90614	83974
10°	115007	74430	65022
15°	114856	62387	52123
20°	114733	52360	40875
25°	114352	43300	31638
30°	113297	34884	23609
35°	110995	27358	18206
40°	107428	21270	14485
45°	100728	16892	12396
50°	91690	13692	11145
55°	80066	11580	10234
60°	67295	9975	9345
65°	54850	8663	8284
70°	43459	7377	7030
75°	32824	6088	5677
80°	22953	4882	4386
85°	13402	3817	3335



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.8	4.0
10°-20°	467.4	11.1
20°-30°	657.3	15.6
30°-40°	688.3	16.4
40°-50°	623.2	14.8
50°-60°	530.4	12.6
60°-70°	419.4	10.0
70°-80°	285.6	6.8
80°-90°	163.0	3.9
90°-100°	90.4	2.1
100°-110°	55.2	1.3
110°-120°	33.6	0.8
120°-130°	18.2	0.4
130°-140°	5.5	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1291.5	30.7
0°-40°	1979.9	47.1
0°-60°	3133.5	74.5
0°-90°	4001.4	95.2
90°-120°	179.2	4.3
90°-150°	203.0	4.8
90°-180°	203.0	4.8
0°-180°	4204.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1784	1772	1747	1755	1749	170
15°	1737	1704	1648	1631	1615	491
25°	1636	1555	1417	1308	1272	754
35°	1449	1286	1041	911	878	905
45°	1149	912	714	676	679	882
55°	753	575	523	583	610	674
65°	391	340	404	494	519	394
75°	152	185	285	350	362	166
85°	27	88	173	207	210	32
90°	0	61	133	154	154	2
95°	1	47	104	116	115	1
105°	1	29	70	73	70	1
115°	1	4	47	55	53	1
125°	0	1	21	38	40	0
135°	1	1	1	16	20	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	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°	1775.8	1775.8	1775.8	1775.8	1775.8
2.5°	1788.0	1778.3	1757.9	1771.0	1765.1
5°	1783.6	1772.4	1747.2	1754.9	1748.6
7.5°	1776.8	1761.7	1729.2	1731.6	1719.5
10°	1766.6	1747.2	1706.9	1702.5	1690.8
12.5°	1753.5	1726.8	1678.2	1672.4	1658.8
15°	1737.0	1703.9	1647.6	1630.6	1615.1
17.5°	1718.5	1676.7	1608.3	1570.4	1543.7
20°	1694.7	1641.8	1554.3	1499.5	1460.6
22.5°	1668.0	1603.9	1493.6	1411.1	1366.8
25°	1635.9	1554.8	1417.4	1307.6	1272.1
27.5°	1600.5	1503.8	1334.3	1206.1	1159.0
30°	1555.8	1439.2	1239.6	1102.1	1047.7
32.5°	1509.2	1369.8	1136.6	998.2	955.9
35°	1448.9	1285.7	1041.4	911.2	877.7
37.5°	1388.2	1195.9	946.7	833.5	803.9
40°	1318.8	1105.0	857.3	769.4	748.5
42.5°	1236.2	1012.8	781.5	715.5	708.2
45°	1148.8	912.2	713.5	676.1	678.6
47.5°	1053.6	820.9	651.9	644.6	656.7
50°	957.9	735.9	600.4	620.8	639.7
52.5°	851.5	653.8	559.6	601.3	624.2
55°	753.4	575.1	522.6	582.9	610.1
57.5°	655.7	508.1	490.6	563.9	592.6
60°	558.6	446.9	459.5	543.5	573.6
62.5°	474.1	388.6	432.3	520.7	546.9
65°	391.0	339.5	404.1	493.5	519.2
67.5°	322.0	295.8	376.0	461.0	484.3
70°	256.5	254.5	345.8	425.0	446.4
72.5°	200.1	217.1	314.3	387.6	408.0
75°	152.0	185.1	284.6	349.7	362.4
77.5°	111.2	154.9	254.5	311.4	320.1
80°	76.3	128.7	225.9	273.0	279.3
82.5°	48.1	106.4	198.2	238.5	242.9
85°	26.7	87.9	173.4	207.4	210.3
87.5°	10.2	72.4	151.1	180.2	182.6
90°	0.5	61.2	132.6	154.5	154.5
92.5°	0.5	53.4	117.5	134.1	135.0
95°	1.0	47.1	104.4	115.6	114.6
97.5°	1.0	42.7	92.3	101.5	98.6
100°	1.0	38.9	83.1	89.4	86.5
102.5°	1.0	34.5	75.8	79.7	76.3
105°	1.0	28.7	69.9	72.9	69.9
107.5°	1.0	22.8	63.6	67.5	64.6
110°	1.0	17.0	57.8	62.7	60.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	10.7	52.5	58.3	56.8
115°	1.0	3.9	47.1	54.9	53.4
117.5°	0.5	1.9	40.3	51.0	50.5
120°	0.5	1.5	34.0	47.6	47.6
122.5°	0.5	1.5	28.2	42.7	44.7
125°	0.5	1.0	21.4	37.9	40.3
127.5°	0.5	1.0	15.1	33.0	35.9
130°	0.5	1.0	7.8	27.2	31.1
132.5°	0.5	1.0	1.0	21.4	25.7
135°	1.0	1.0	1.0	15.5	20.4
137.5°	1.0	1.0	1.0	8.3	14.6
140°	1.0	1.0	0.5	0.5	6.8
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
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)