

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: P290105

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290105  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-LN-40-L835-CD1-U  
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4130.2 lumens  
Efficiency: N/A  
Efficacy: 149.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

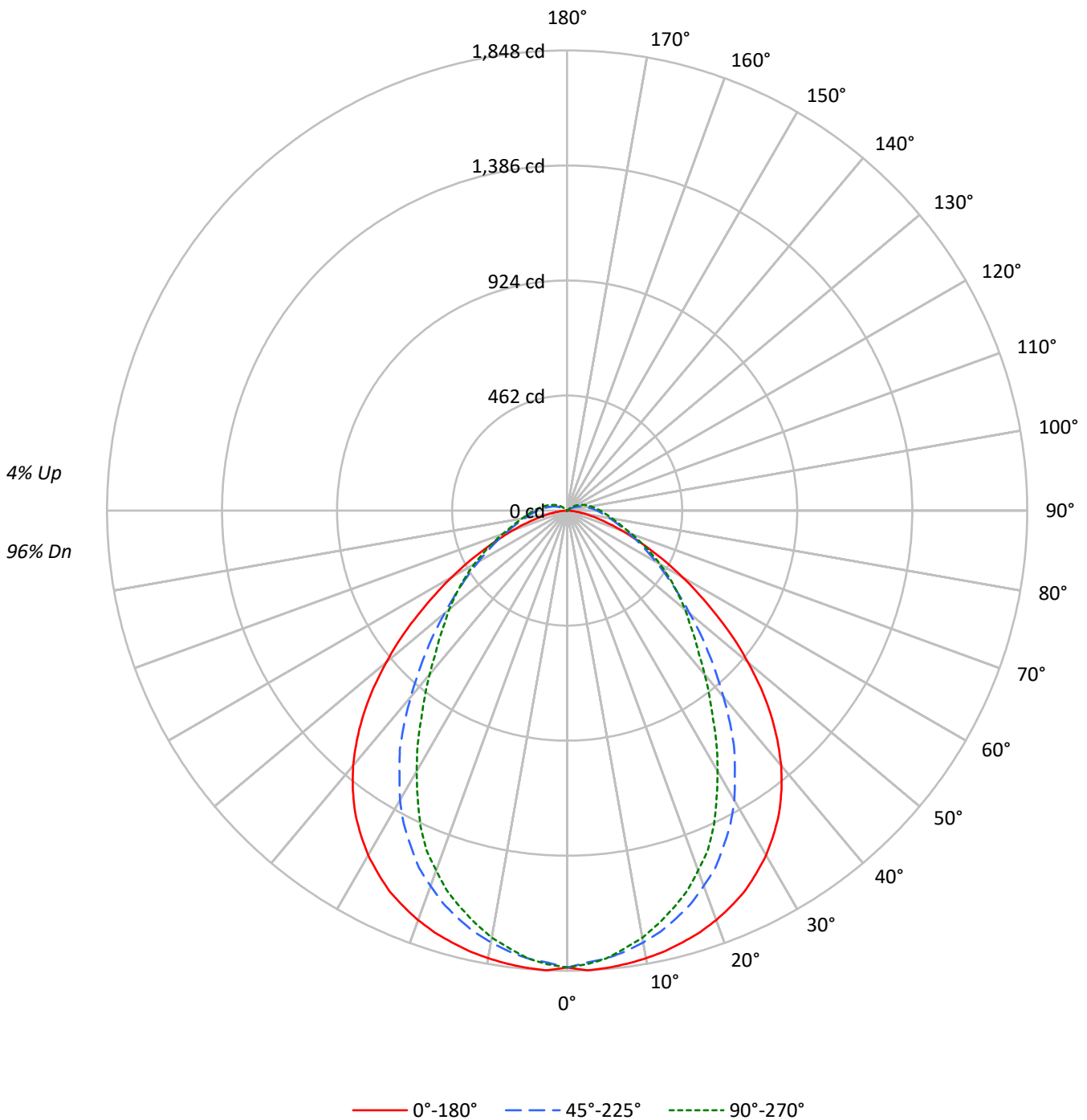
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36				
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

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

	0°	45°	90°
0°	118484	118484	118484
5°	119073	93638	86707
10°	118835	76781	66967
15°	118678	64170	53281
20°	118484	54031	43049
25°	117923	45408	34682
30°	116377	37782	27221
35°	113676	30766	21189
40°	108927	24222	16647
45°	101447	18928	13229
50°	90666	14634	10772
55°	77792	11387	8751
60°	64428	8931	7035
65°	50964	7029	5557
70°	39342	5563	4369
75°	28959	4520	3478
80°	20306	3726	2883
85°	11695	3143	2457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.2	4.2
10°-20°	482.3	11.7
20°-30°	695.1	16.8
30°-40°	753.0	18.2
40°-50°	666.9	16.1
50°-60°	507.5	12.3
60°-70°	338.1	8.2
70°-80°	208.9	5.1
80°-90°	130.9	3.2
90°-100°	86.0	2.1
100°-110°	52.7	1.3
110°-120°	27.2	0.7
120°-130°	8.9	0.2
130°-140°	0.5	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1349.7	32.7
0°-40°	2102.7	50.9
0°-60°	3277.0	79.3
0°-90°	3954.8	95.8
90°-120°	165.9	4.0
90°-150°	175.4	4.2
90°-180°	175.0	4.2
0°-180°	4130.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1835	1835	1835	1835	1835	
5°	1843	1832	1806	1812	1806	175
15°	1795	1761	1695	1672	1651	507
25°	1687	1608	1486	1423	1394	776
35°	1484	1345	1171	1061	1022	925
45°	1157	976	800	739	724	887
55°	732	598	514	520	522	658
65°	363	319	328	347	348	367
75°	134	163	211	225	222	148
85°	23	84	143	157	155	28
90°	1	61	119	134	133	2
95°	2	43	99	114	114	2
105°	2	17	62	79	81	2
115°	2	2	32	49	53	1
125°	1	1	1	21	27	1
135°	0	0	0	0	0	0
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°	1834.6	1834.6	1834.6	1834.6	1834.6
2.5°	1848.2	1838.0	1817.1	1829.3	1823.5
5°	1843.4	1831.7	1805.5	1812.3	1805.5
7.5°	1835.6	1821.0	1786.0	1789.0	1772.9
10°	1825.4	1806.0	1760.8	1755.9	1741.4
12.5°	1812.3	1785.1	1732.1	1712.7	1698.6
15°	1794.8	1760.8	1694.7	1671.9	1651.0
17.5°	1774.9	1731.2	1654.4	1626.7	1602.0
20°	1750.1	1695.2	1603.9	1565.5	1538.3
22.5°	1720.0	1655.9	1553.9	1498.0	1476.1
25°	1687.0	1607.8	1486.4	1422.7	1394.5
27.5°	1643.7	1554.8	1419.8	1340.1	1299.8
30°	1598.1	1492.2	1342.6	1250.8	1208.0
32.5°	1543.2	1423.7	1253.2	1155.6	1117.7
35°	1483.9	1345.0	1171.1	1060.8	1021.5
37.5°	1414.0	1260.0	1073.5	972.4	938.0
40°	1337.2	1167.7	976.3	887.4	860.2
42.5°	1249.8	1074.0	885.0	808.3	784.9
45°	1157.0	975.8	799.5	738.8	724.2
47.5°	1056.0	877.7	719.4	676.1	665.5
50°	947.2	779.6	641.7	617.9	618.3
52.5°	843.7	686.8	575.6	569.3	567.8
55°	732.0	597.5	513.9	520.2	521.7
57.5°	631.0	514.4	461.4	473.1	474.6
60°	534.8	440.1	411.4	429.4	431.8
62.5°	446.9	376.4	368.7	387.1	386.6
65°	363.3	318.6	327.9	346.8	348.3
67.5°	292.4	271.5	293.9	310.4	309.4
70°	232.2	229.3	260.8	278.3	277.4
72.5°	180.7	193.8	235.1	250.2	246.3
75°	134.1	163.2	211.3	225.4	222.0
77.5°	98.6	137.9	190.4	204.0	201.6
80°	67.5	117.1	172.4	186.5	183.6
82.5°	43.2	99.6	156.9	170.5	168.6
85°	23.3	84.0	142.8	157.4	154.9
87.5°	8.7	71.4	130.2	144.7	143.8
90°	1.0	61.2	119.0	134.1	133.1
92.5°	1.5	52.0	108.3	123.9	123.9
95°	2.4	43.2	98.6	114.1	113.7
97.5°	1.9	36.4	87.9	104.9	104.9
100°	1.9	30.1	78.2	95.2	96.2
102.5°	1.9	23.8	69.9	86.5	88.4
105°	1.5	17.0	61.7	78.7	80.6
107.5°	1.5	9.7	53.4	71.4	73.8
110°	1.5	2.4	46.1	63.6	66.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	38.9	56.3	59.3
115°	1.5	1.5	31.6	49.1	53.4
117.5°	1.0	1.0	23.3	42.7	46.6
120°	1.0	1.0	14.6	35.9	39.8
122.5°	1.0	1.0	6.3	28.7	34.0
125°	1.0	1.0	1.0	21.4	26.7
127.5°	1.0	1.0	0.5	12.6	18.9
130°	1.0	1.0	0.5	4.9	11.7
132.5°	1.0	1.0	0.5	0.5	3.4
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)