

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: P290106

Luminaire Tested: **4SSRK-LN-40-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290106  
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-L840-CD1-U  
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4200.2 lumens  
Efficiency: N/A  
Efficacy: 151.6 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

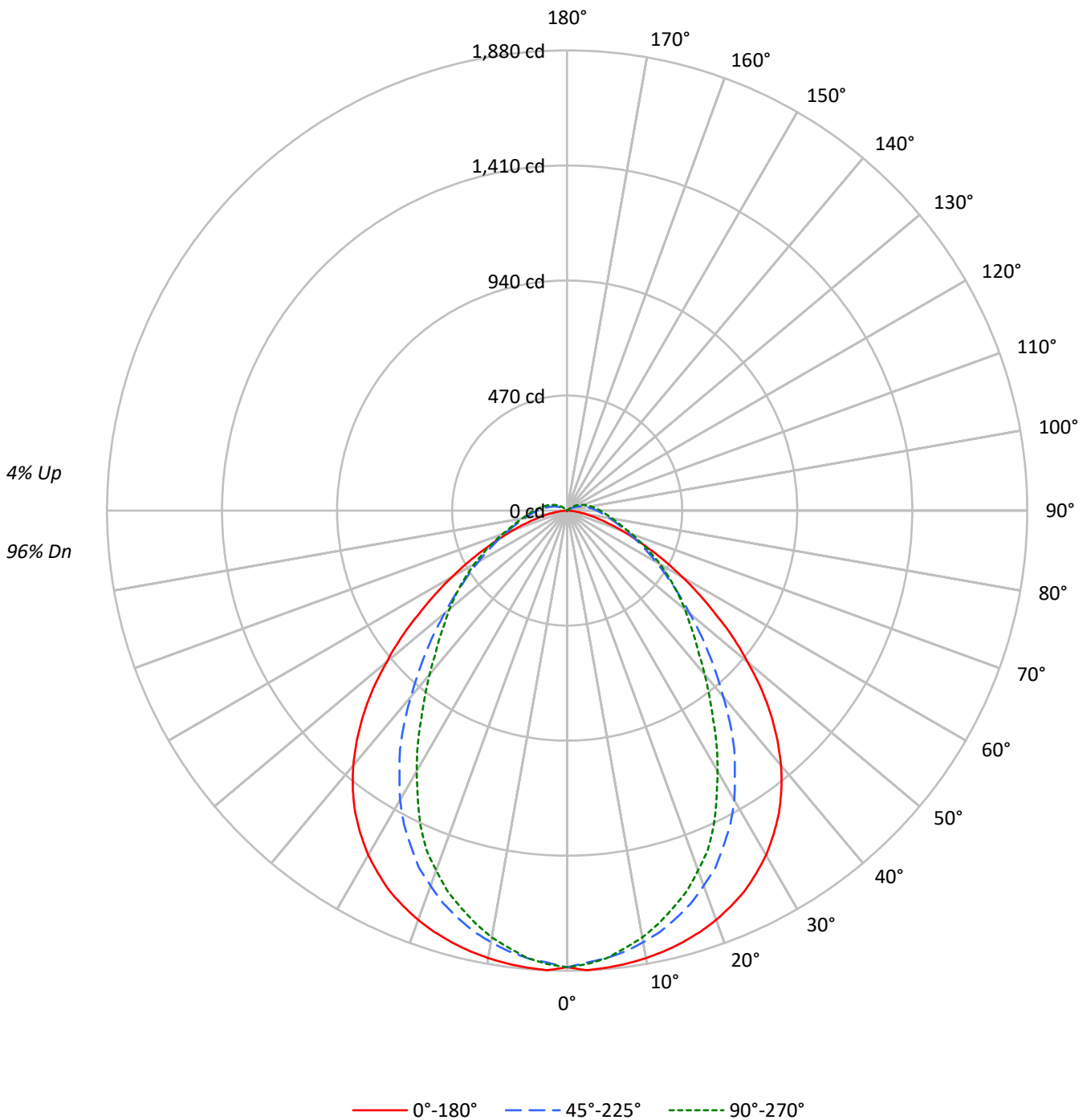
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	120492	120492	120492
5°	121088	95225	88176
10°	120847	78080	68102
15°	120688	65261	54185
20°	120494	54947	43780
25°	119923	46177	35271
30°	118351	38421	27683
35°	115606	31288	21548
40°	110776	24634	16930
45°	103165	19250	13454
50°	92198	14880	10955
55°	79110	11580	8899
60°	65525	9083	7154
65°	51834	7147	5651
70°	40003	5659	4443
75°	29434	4597	3536
80°	20667	3791	2932
85°	11896	3196	2500



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.2	4.2
10°-20°	490.5	11.7
20°-30°	706.9	16.8
30°-40°	765.7	18.2
40°-50°	678.2	16.1
50°-60°	516.1	12.3
60°-70°	343.8	8.2
70°-80°	212.4	5.1
80°-90°	133.1	3.2
90°-100°	87.5	2.1
100°-110°	53.6	1.3
110°-120°	27.7	0.7
120°-130°	9.1	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°	1372.6	32.7
0°-40°	2138.3	50.9
0°-60°	3332.6	79.3
0°-90°	4021.9	95.8
90°-120°	168.7	4.0
90°-150°	178.3	4.2
90°-180°	178.0	4.2
0°-180°	4200.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1866	1866	1866	1866	1866	
5°	1875	1863	1836	1843	1836	178
15°	1825	1791	1724	1700	1679	516
25°	1716	1635	1512	1447	1418	789
35°	1509	1368	1191	1079	1039	940
45°	1177	992	813	751	736	903
55°	744	608	523	529	530	669
65°	370	324	333	353	354	373
75°	136	166	215	229	226	151
85°	24	86	145	160	158	29
90°	1	62	121	136	135	2
95°	2	44	100	116	116	2
105°	2	17	63	80	82	2
115°	2	2	32	50	54	1
125°	1	1	1	22	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°	1865.7	1865.7	1865.7	1865.7	1865.7
2.5°	1879.6	1869.2	1848.0	1860.3	1854.4
5°	1874.6	1862.8	1836.1	1843.0	1836.1
7.5°	1866.7	1851.9	1816.3	1819.3	1803.0
10°	1856.3	1836.6	1790.6	1785.7	1770.9
12.5°	1843.0	1815.3	1761.5	1741.7	1727.4
15°	1825.2	1790.6	1723.5	1700.3	1679.0
17.5°	1805.0	1760.5	1682.5	1654.3	1629.1
20°	1779.8	1724.0	1631.1	1592.1	1564.4
22.5°	1749.2	1684.0	1580.2	1523.4	1501.2
25°	1715.6	1635.0	1511.6	1446.8	1418.2
27.5°	1671.6	1581.2	1443.9	1362.9	1321.9
30°	1625.2	1517.5	1365.3	1272.0	1228.5
32.5°	1569.3	1447.8	1274.4	1175.2	1136.6
35°	1509.1	1367.8	1191.0	1078.8	1038.8
37.5°	1438.0	1281.4	1091.7	988.9	953.9
40°	1359.9	1187.5	992.9	902.5	874.8
42.5°	1271.0	1092.2	900.0	822.0	798.3
45°	1176.6	992.4	813.1	751.3	736.5
47.5°	1073.9	892.6	731.6	687.6	676.7
50°	963.2	792.8	652.5	628.3	628.8
52.5°	858.0	698.5	585.4	578.9	577.5
55°	744.4	607.6	522.6	529.0	530.5
57.5°	641.7	523.1	469.3	481.1	482.6
60°	543.9	447.5	418.4	436.7	439.1
62.5°	454.5	382.8	374.9	393.7	393.2
65°	369.5	324.0	333.4	352.7	354.2
67.5°	297.4	276.1	298.9	315.6	314.7
70°	236.1	233.2	265.3	283.0	282.1
72.5°	183.8	197.1	239.1	254.4	250.4
75°	136.3	166.0	214.9	229.2	225.7
77.5°	100.3	140.3	193.6	207.5	205.0
80°	68.7	119.0	175.4	189.7	186.7
82.5°	44.0	101.3	159.6	173.4	171.4
85°	23.7	85.5	145.2	160.0	157.6
87.5°	8.9	72.6	132.4	147.2	146.2
90°	1.0	62.2	121.0	136.3	135.3
92.5°	1.5	52.9	110.2	126.0	126.0
95°	2.5	44.0	100.3	116.1	115.6
97.5°	2.0	37.0	89.4	106.7	106.7
100°	2.0	30.6	79.5	96.8	97.8
102.5°	2.0	24.2	71.1	87.9	89.9
105°	1.5	17.3	62.7	80.0	82.0
107.5°	1.5	9.9	54.3	72.6	75.1
110°	1.5	2.5	46.9	64.7	67.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	39.5	57.3	60.3
115°	1.5	1.5	32.1	49.9	54.3
117.5°	1.0	1.0	23.7	43.5	47.4
120°	1.0	1.0	14.8	36.6	40.5
122.5°	1.0	1.0	6.4	29.1	34.6
125°	1.0	1.0	1.0	21.7	27.2
127.5°	1.0	1.0	0.5	12.8	19.3
130°	1.0	1.0	0.5	4.9	11.9
132.5°	1.0	1.0	0.5	0.5	3.5
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)