

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: P290130

Luminaire Tested: **8SSRK-LN-40-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290130  
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: 8SSRK-LN-40-L840-CD1-U  
Description: 4000 LUMEN, 8 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: 4172.8 lumens  
Efficiency: N/A  
Efficacy: 154.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

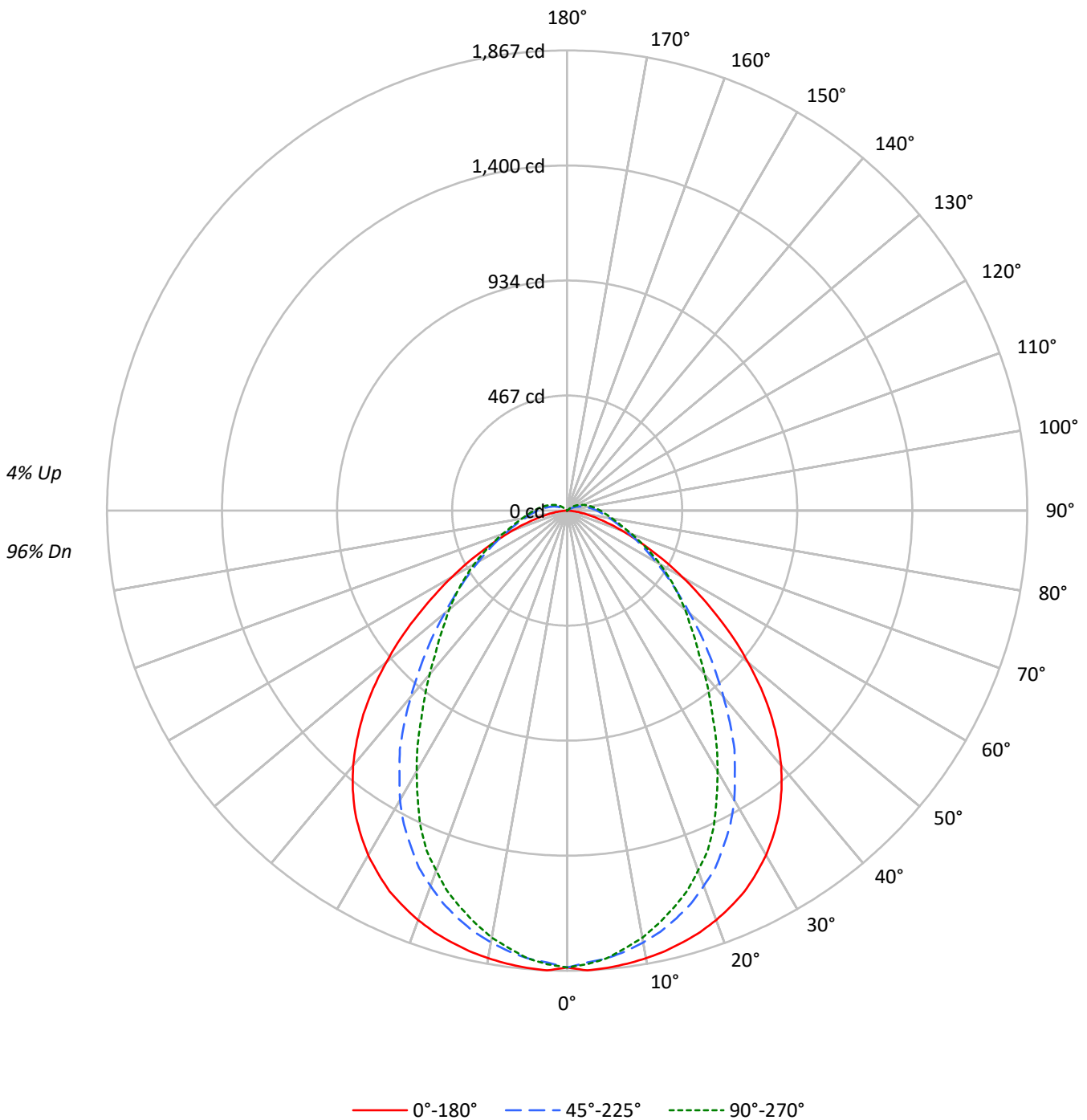
Input Watts (W): 27.0151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	59852	59852	59852
5°	60260	47350	43800
10°	60249	38852	33828
15°	60283	32489	26915
20°	60305	27365	21747
25°	60143	23005	17520
30°	59484	19147	13751
35°	58250	15595	10704
40°	55971	12281	8410
45°	52295	9599	6683
50°	46912	7422	5442
55°	40435	5776	4421
60°	33679	4532	3554
65°	26850	3567	2807
70°	20950	2823	2206
75°	15674	2294	1757
80°	11342	1892	1456
85°	7062	1596	1241



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.0	4.2
10°-20°	487.3	11.7
20°-30°	702.3	16.8
30°-40°	760.7	18.2
40°-50°	673.8	16.1
50°-60°	512.7	12.3
60°-70°	341.6	8.2
70°-80°	211.0	5.1
80°-90°	132.2	3.2
90°-100°	86.9	2.1
100°-110°	53.2	1.3
110°-120°	27.5	0.7
120°-130°	9.0	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°	1363.6	32.7
0°-40°	2124.3	50.9
0°-60°	3310.8	79.3
0°-90°	3995.6	95.8
90°-120°	167.6	4.0
90°-150°	177.2	4.2
90°-180°	177.0	4.2
0°-180°	4172.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1854	1854	1854	1854	1854	
5°	1862	1851	1824	1831	1824	177
15°	1813	1779	1712	1689	1668	512
25°	1704	1624	1502	1437	1409	784
35°	1499	1359	1183	1072	1032	934
45°	1169	986	808	746	732	897
55°	740	604	519	526	527	664
65°	367	322	331	350	352	371
75°	135	165	214	228	224	150
85°	24	85	144	159	156	29
90°	1	62	120	135	134	2
95°	2	44	100	115	115	2
105°	2	17	62	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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CATALOG NUMBER: 8SSRK-LN-40-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1853.5	1853.5	1853.5	1853.5	1853.5
2.5°	1867.3	1857.0	1835.9	1848.1	1842.3
5°	1862.4	1850.6	1824.1	1831.0	1824.1
7.5°	1854.5	1839.8	1804.5	1807.4	1791.2
10°	1844.2	1824.6	1778.9	1774.0	1759.3
12.5°	1831.0	1803.5	1750.0	1730.4	1716.1
15°	1813.3	1778.9	1712.2	1689.1	1668.0
17.5°	1793.2	1749.0	1671.5	1643.5	1618.5
20°	1768.2	1712.7	1620.4	1581.7	1554.2
22.5°	1737.7	1672.9	1569.9	1513.5	1491.4
25°	1704.4	1624.4	1501.7	1437.4	1408.9
27.5°	1660.7	1570.9	1434.4	1354.0	1313.2
30°	1614.5	1507.6	1356.4	1263.7	1220.5
32.5°	1559.1	1438.4	1266.1	1167.5	1129.2
35°	1499.2	1358.9	1183.2	1071.8	1032.0
37.5°	1428.6	1273.0	1084.5	982.5	947.6
40°	1351.0	1179.8	986.4	896.6	869.1
42.5°	1262.7	1085.0	894.1	816.6	793.0
45°	1169.0	985.9	807.8	746.4	731.7
47.5°	1066.9	886.8	726.8	683.1	672.3
50°	957.0	787.6	648.3	624.2	624.7
52.5°	852.4	693.9	581.5	575.2	573.7
55°	739.6	603.6	519.2	525.6	527.1
57.5°	637.5	519.7	466.2	478.0	479.5
60°	540.3	444.6	415.7	433.8	436.3
62.5°	451.5	380.3	372.5	391.1	390.6
65°	367.1	321.9	331.3	350.4	351.9
67.5°	295.4	274.3	296.9	313.6	312.6
70°	234.6	231.6	263.5	281.2	280.2
72.5°	182.6	195.8	237.5	252.7	248.8
75°	135.4	164.9	213.5	227.7	224.3
77.5°	99.6	139.4	192.4	206.1	203.7
80°	68.2	118.3	174.2	188.4	185.5
82.5°	43.7	100.6	158.5	172.3	170.3
85°	23.6	84.9	144.3	159.0	156.5
87.5°	8.8	72.1	131.5	146.2	145.3
90°	1.0	61.8	120.2	135.4	134.5
92.5°	1.5	52.5	109.4	125.1	125.1
95°	2.5	43.7	99.6	115.3	114.8
97.5°	2.0	36.8	88.8	106.0	106.0
100°	2.0	30.4	79.0	96.2	97.2
102.5°	2.0	24.0	70.7	87.4	89.3
105°	1.5	17.2	62.3	79.5	81.5
107.5°	1.5	9.8	54.0	72.1	74.6
110°	1.5	2.5	46.6	64.3	67.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	39.3	56.9	59.9
115°	1.5	1.5	31.9	49.6	54.0
117.5°	1.0	1.0	23.6	43.2	47.1
120°	1.0	1.0	14.7	36.3	40.2
122.5°	1.0	1.0	6.4	29.0	34.4
125°	1.0	1.0	1.0	21.6	27.0
127.5°	1.0	1.0	0.5	12.8	19.1
130°	1.0	1.0	0.5	4.9	11.8
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)