

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: P290397

Luminaire Tested: **8SSRK-SLN-50-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290397  
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: 8SSRK-SLN-50-L935-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4417.0 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

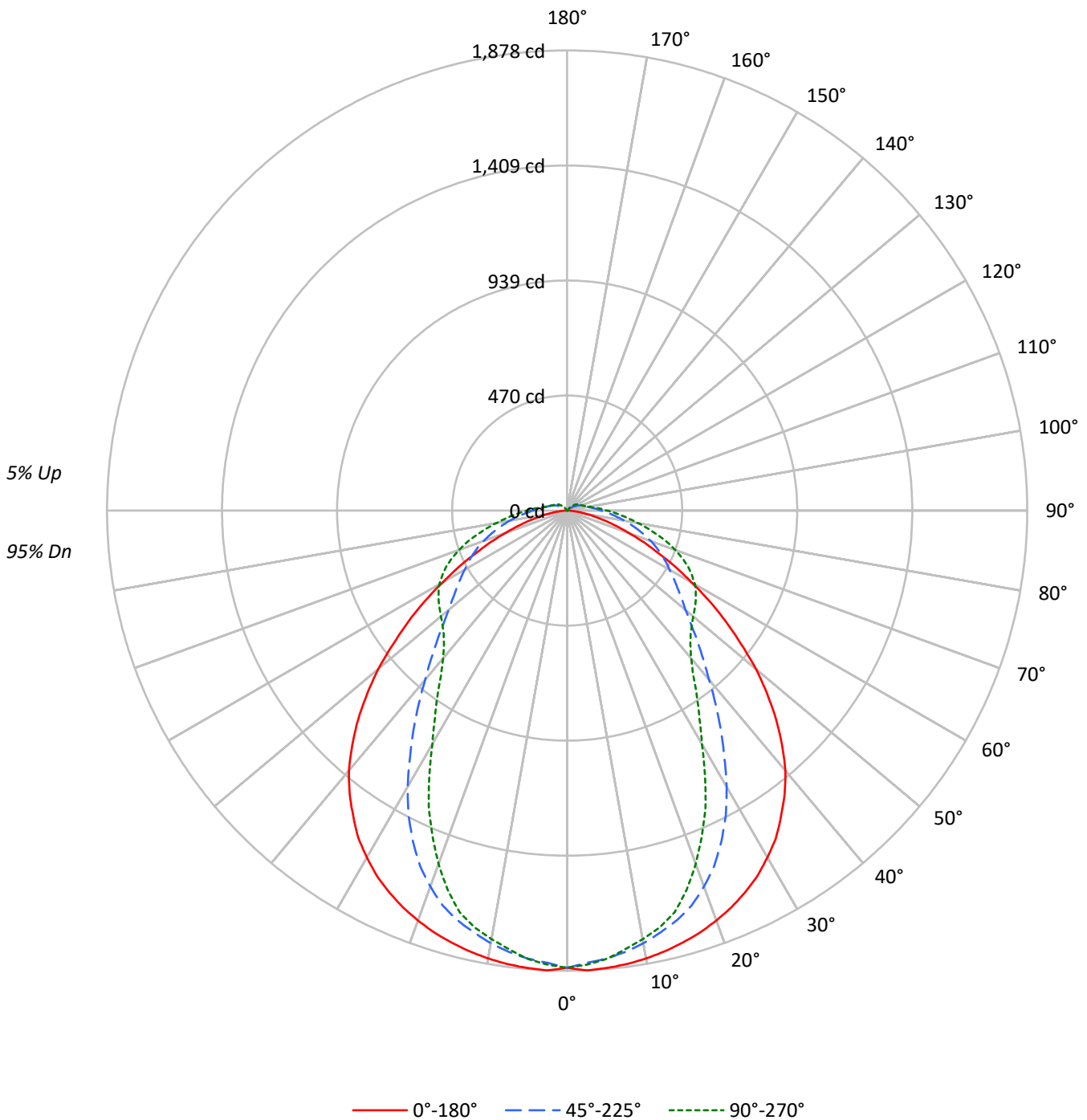
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P290397

CATALOG NUMBER: 8SSRK-SLN-50-L935-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P290397

CATALOG NUMBER: 8SSRK-SLN-50-L935-CD1-U

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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°	60243	60243	60243
5°	60628	47646	44112
10°	60632	39164	34155
15°	60666	32844	27378
20°	60721	27576	21472
25°	60648	22811	16620
30°	60221	18383	12402
35°	59143	14421	9564
40°	57400	11214	7609
45°	53986	8907	6511
50°	49328	7220	5855
55°	43273	6109	5375
60°	36577	5262	4910
65°	30046	4571	4352
70°	24058	3893	3693
75°	18488	3213	2982
80°	13321	2577	2304
85°	8409	2015	1753



TEST NUMBER: P290397

CATALOG NUMBER: 8SSRK-SLN-50-L935-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.2	4.0
10°-20°	491.1	11.1
20°-30°	690.6	15.6
30°-40°	723.2	16.4
40°-50°	654.7	14.8
50°-60°	557.2	12.6
60°-70°	440.6	10.0
70°-80°	300.0	6.8
80°-90°	171.2	3.9
90°-100°	94.9	2.1
100°-110°	58.0	1.3
110°-120°	35.3	0.8
120°-130°	19.1	0.4
130°-140°	5.8	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°	1356.8	30.7
0°-40°	2080.0	47.1
0°-60°	3292.0	74.5
0°-90°	4203.8	95.2
90°-120°	188.2	4.3
90°-150°	213.2	4.8
90°-180°	213.0	4.8
0°-180°	4417.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1866	1866	1866	1866	1866	
5°	1874	1862	1836	1844	1837	178
15°	1825	1790	1731	1713	1697	516
25°	1719	1634	1489	1374	1336	792
35°	1522	1351	1094	957	922	951
45°	1207	958	750	710	713	927
55°	792	604	549	612	641	708
65°	411	357	425	518	546	414
75°	160	194	299	367	381	174
85°	28	92	182	218	221	34
90°	0	64	139	162	162	2
95°	1	50	110	122	120	1
105°	1	30	74	76	74	1
115°	1	4	50	58	56	1
125°	0	1	22	40	42	0
135°	1	1	1	16	21	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



TEST NUMBER: P290397

CATALOG NUMBER: 8SSRK-SLN-50-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1865.6	1865.6	1865.6	1865.6	1865.6
2.5°	1878.4	1868.2	1846.8	1860.5	1854.4
5°	1873.8	1862.1	1835.5	1843.7	1837.1
7.5°	1866.7	1850.8	1816.6	1819.2	1806.4
10°	1855.9	1835.5	1793.2	1788.6	1776.3
12.5°	1842.2	1814.1	1763.1	1756.9	1742.7
15°	1824.8	1790.1	1730.9	1713.1	1696.7
17.5°	1805.4	1761.5	1689.6	1649.8	1621.7
20°	1780.4	1724.8	1632.9	1575.3	1534.5
22.5°	1752.4	1685.0	1569.2	1482.4	1436.0
25°	1718.7	1633.5	1489.0	1373.7	1336.5
27.5°	1681.4	1579.9	1401.8	1267.1	1217.6
30°	1634.5	1512.0	1302.3	1157.9	1100.7
32.5°	1585.5	1439.0	1194.1	1048.7	1004.3
35°	1522.2	1350.8	1094.1	957.3	922.1
37.5°	1458.4	1256.3	994.6	875.7	844.5
40°	1385.5	1160.9	900.7	808.3	786.4
42.5°	1298.7	1064.0	821.1	751.7	744.0
45°	1206.8	958.3	749.6	710.3	712.9
47.5°	1106.8	862.4	684.8	677.2	689.9
50°	1006.3	773.1	630.7	652.2	672.1
52.5°	894.5	686.9	587.9	631.7	655.7
55°	791.5	604.2	549.1	612.4	640.9
57.5°	688.9	533.8	515.4	592.5	622.6
60°	586.8	469.5	482.7	571.0	602.7
62.5°	498.0	408.2	454.2	547.0	574.6
65°	410.8	356.7	424.6	518.5	545.5
67.5°	338.3	310.8	395.0	484.3	508.8
70°	269.4	267.4	363.3	446.5	469.0
72.5°	210.2	228.1	330.2	407.2	428.6
75°	159.7	194.4	299.0	367.4	380.7
77.5°	116.9	162.8	267.4	327.1	336.3
80°	80.1	135.2	237.3	286.8	293.4
82.5°	50.5	111.8	208.2	250.6	255.1
85°	28.1	92.4	182.2	217.9	221.0
87.5°	10.7	76.0	158.7	189.3	191.9
90°	0.5	64.3	139.3	162.3	162.3
92.5°	0.5	56.1	123.5	140.8	141.9
95°	1.0	49.5	109.7	121.5	120.4
97.5°	1.0	44.9	97.0	106.7	103.6
100°	1.0	40.8	87.3	93.9	90.8
102.5°	1.0	36.2	79.6	83.7	80.1
105°	1.0	30.1	73.5	76.5	73.5
107.5°	1.0	24.0	66.8	70.9	67.9
110°	1.0	17.9	60.7	65.8	63.3



TEST NUMBER: P290397

CATALOG NUMBER: 8SSRK-SLN-50-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	11.2	55.1	61.2	59.7
115°	1.0	4.1	49.5	57.7	56.1
117.5°	0.5	2.0	42.4	53.6	53.1
120°	0.5	1.5	35.7	50.0	50.0
122.5°	0.5	1.5	29.6	44.9	46.9
125°	0.5	1.0	22.5	39.8	42.4
127.5°	0.5	1.0	15.8	34.7	37.8
130°	0.5	1.0	8.2	28.6	32.7
132.5°	0.5	1.0	1.0	22.5	27.0
135°	1.0	1.0	1.0	16.3	21.4
137.5°	1.0	1.0	1.0	8.7	15.3
140°	1.0	1.0	0.5	0.5	7.1
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)