

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: P290396

Luminaire Tested: **8SSRK-SLN-50-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290396  
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-L930-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

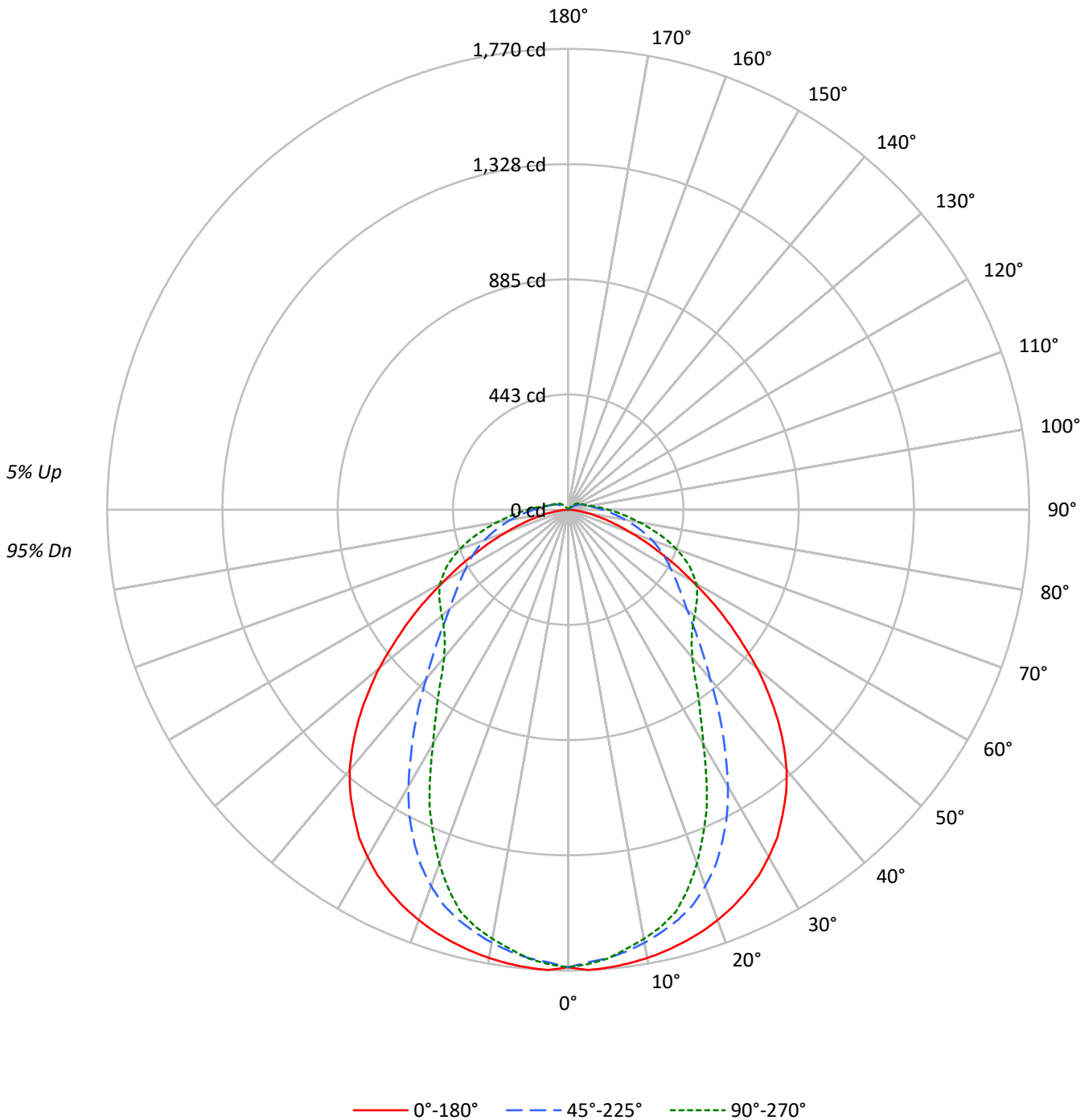
Lumens per Lamp: N/A  
Luminaire Lumens: 4161.2 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input 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



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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	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°	56756	56756	56756
5°	57118	44887	41557
10°	57120	36895	32178
15°	57152	30943	25794
20°	57205	25980	20228
25°	57133	21490	15657
30°	56732	17317	11684
35°	55716	13585	9010
40°	54074	10564	7168
45°	50859	8392	6134
50°	46471	6802	5515
55°	40763	5755	5064
60°	34464	4958	4625
65°	28305	4306	4100
70°	22665	3668	3479
75°	17422	3027	2809
80°	12556	2427	2170
85°	7900	1898	1651



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.0	4.0
10°-20°	462.6	11.1
20°-30°	650.6	15.6
30°-40°	681.3	16.4
40°-50°	616.8	14.8
50°-60°	525.0	12.6
60°-70°	415.1	10.0
70°-80°	282.6	6.8
80°-90°	161.3	3.9
90°-100°	89.4	2.1
100°-110°	54.6	1.3
110°-120°	33.2	0.8
120°-130°	18.0	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°	1278.2	30.7
0°-40°	1959.5	47.1
0°-60°	3101.3	74.5
0°-90°	3960.3	95.2
90°-120°	177.3	4.3
90°-150°	200.9	4.8
90°-180°	201.0	4.8
0°-180°	4161.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1765	1754	1729	1737	1731	168
15°	1719	1686	1631	1614	1598	486
25°	1619	1539	1403	1294	1259	746
35°	1434	1272	1031	902	869	896
45°	1137	903	706	669	672	873
55°	746	569	517	577	604	667
65°	387	336	400	488	514	390
75°	150	183	282	346	359	164
85°	26	87	172	205	208	32
90°	0	61	131	153	153	2
95°	1	47	103	114	114	1
105°	1	28	69	72	69	1
115°	1	4	47	54	53	1
125°	0	1	21	38	40	0
135°	1	1	1	15	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°	1757.6	1757.6	1757.6	1757.6	1757.6
2.5°	1769.6	1760.0	1739.8	1752.8	1747.0
5°	1765.3	1754.2	1729.2	1736.9	1730.7
7.5°	1758.5	1743.6	1711.4	1713.8	1701.8
10°	1748.4	1729.2	1689.3	1685.0	1673.5
12.5°	1735.5	1709.0	1661.0	1655.2	1641.7
15°	1719.1	1686.4	1630.7	1613.8	1598.5
17.5°	1700.9	1659.5	1591.7	1554.2	1527.8
20°	1677.3	1624.9	1538.4	1484.0	1445.6
22.5°	1650.9	1587.4	1478.3	1396.5	1352.8
25°	1619.1	1538.8	1402.8	1294.2	1259.1
27.5°	1584.0	1488.4	1320.6	1193.7	1147.0
30°	1539.8	1424.4	1226.8	1090.8	1037.0
32.5°	1493.7	1355.7	1124.9	987.9	946.1
35°	1434.0	1272.5	1030.7	901.9	868.7
37.5°	1374.0	1183.6	937.0	824.9	795.6
40°	1305.2	1093.7	848.5	761.5	740.8
42.5°	1223.5	1002.3	773.5	708.1	700.9
45°	1136.9	902.8	706.2	669.2	671.6
47.5°	1042.7	812.4	645.2	637.9	650.0
50°	948.0	728.3	594.2	614.4	633.1
52.5°	842.7	647.1	553.8	595.2	617.8
55°	745.6	569.2	517.3	576.9	603.8
57.5°	649.0	502.9	485.5	558.1	586.5
60°	552.9	442.3	454.8	537.9	567.8
62.5°	469.2	384.6	427.9	515.4	541.3
65°	387.0	336.0	400.0	488.4	513.9
67.5°	318.7	292.8	372.1	456.2	479.3
70°	253.8	251.9	342.3	420.6	441.8
72.5°	198.1	214.9	311.0	383.6	403.8
75°	150.5	183.2	281.7	346.1	358.6
77.5°	110.1	153.4	251.9	308.2	316.8
80°	75.5	127.4	223.5	270.2	276.4
82.5°	47.6	105.3	196.1	236.0	240.4
85°	26.4	87.0	171.6	205.3	208.2
87.5°	10.1	71.6	149.5	178.4	180.8
90°	0.5	60.6	131.2	152.9	152.9
92.5°	0.5	52.9	116.3	132.7	133.6
95°	1.0	46.6	103.4	114.4	113.5
97.5°	1.0	42.3	91.3	100.5	97.6
100°	1.0	38.5	82.2	88.5	85.6
102.5°	1.0	34.1	75.0	78.8	75.5
105°	1.0	28.4	69.2	72.1	69.2
107.5°	1.0	22.6	63.0	66.8	63.9
110°	1.0	16.8	57.2	62.0	59.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	10.6	51.9	57.7	56.2
115°	1.0	3.8	46.6	54.3	52.9
117.5°	0.5	1.9	39.9	50.5	50.0
120°	0.5	1.4	33.7	47.1	47.1
122.5°	0.5	1.4	27.9	42.3	44.2
125°	0.5	1.0	21.2	37.5	39.9
127.5°	0.5	1.0	14.9	32.7	35.6
130°	0.5	1.0	7.7	26.9	30.8
132.5°	0.5	1.0	1.0	21.2	25.5
135°	1.0	1.0	1.0	15.4	20.2
137.5°	1.0	1.0	1.0	8.2	14.4
140°	1.0	1.0	0.5	0.5	6.7
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)