

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: P290308

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-SLC-50-L930-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 90 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4304.3 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

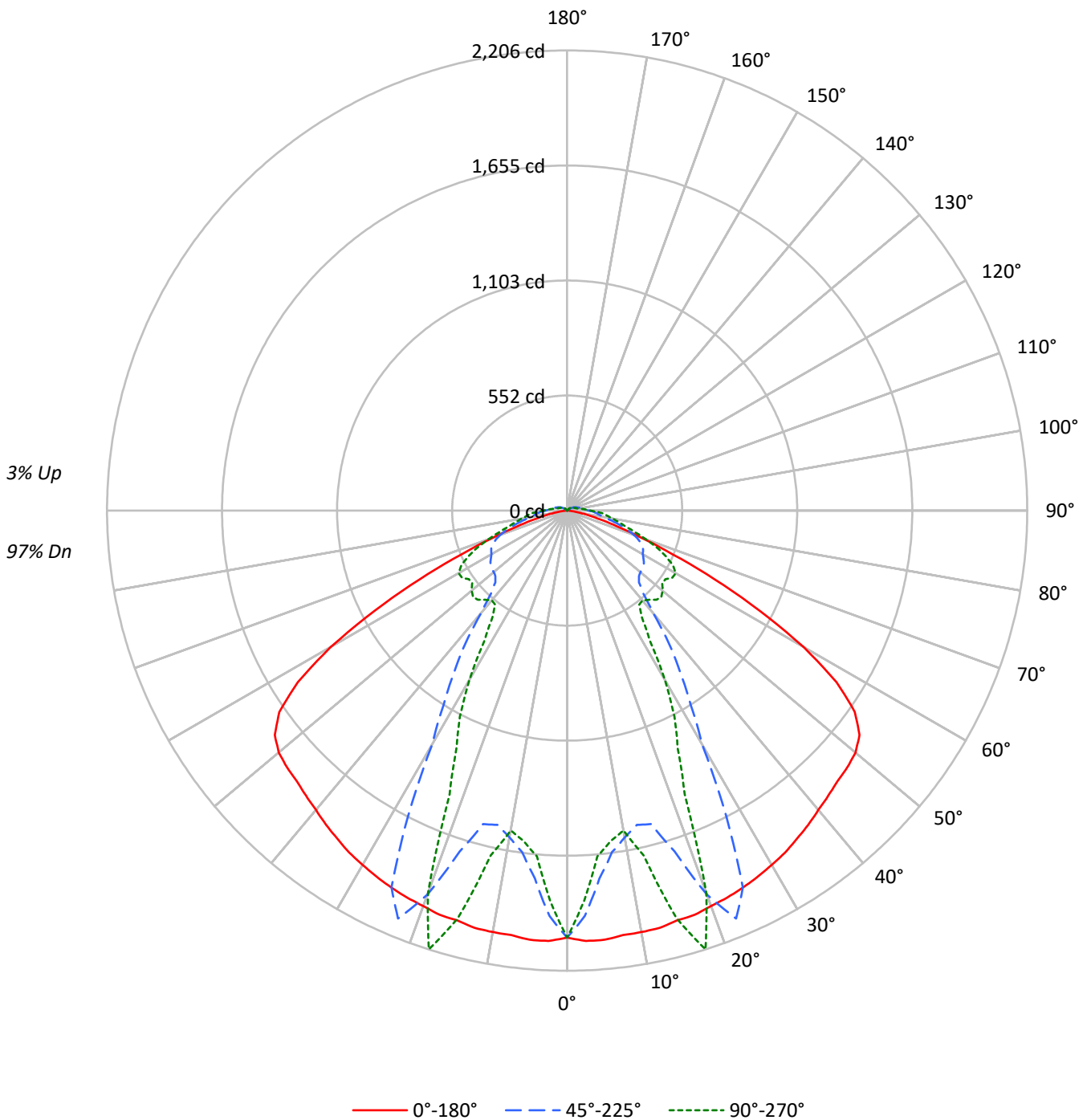
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
0	118	118	118	118	115	115	115	115	109	109	109		104	104	104		99	99	99	97
1	108	103	99	95	105	101	97	93	96	93	90		91	89	87		87	85	83	81
2	99	91	84	79	96	89	83	78	85	80	75		81	77	73		77	74	71	69
3	91	81	73	67	88	79	72	66	75	69	64		72	67	63		69	65	61	59
4	84	72	64	57	81	71	63	57	68	61	56		65	59	54		62	57	53	51
5	77	65	56	50	75	64	56	50	61	54	49		59	53	48		57	51	47	45
6	72	59	50	44	70	58	50	44	56	49	43		54	47	43		52	46	42	40
7	67	54	45	40	65	53	45	39	51	44	39		49	43	38		48	42	38	36
8	62	49	41	36	61	49	41	35	47	40	35		46	39	35		44	38	34	32
9	58	46	38	32	57	45	37	32	44	37	32		42	36	32		41	35	31	29
10	55	42	35	30	54	42	34	30	40	34	29		39	33	29		38	33	29	27

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

	0°	45°	90°
0°	66101	66101	66101
5°	66825	45972	39951
10°	67032	34733	29940
15°	67637	29529	32643
20°	68797	33092	27284
25°	70366	30527	15585
30°	72265	18282	10557
35°	74623	12452	6462
40°	77634	8008	5433
45°	82022	5793	5524
50°	88441	5250	5209
55°	92067	5001	4818
60°	81570	4564	4895
65°	57101	4296	4188
70°	33185	3652	3150
75°	18870	2758	2240
80°	10710	1947	1733
85°	5177	1563	1418



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.0	4.0
10°-20°	510.7	11.9
20°-30°	751.8	17.5
30°-40°	734.4	17.1
40°-50°	608.8	14.1
50°-60°	558.9	13.0
60°-70°	442.9	10.3
70°-80°	245.9	5.7
80°-90°	130.2	3.0
90°-100°	68.5	1.6
100°-110°	41.2	1.0
110°-120°	23.5	0.5
120°-130°	13.0	0.3
130°-140°	4.1	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°	1432.5	33.3
0°-40°	2166.9	50.3
0°-60°	3334.7	77.5
0°-90°	4153.8	96.5
90°-120°	133.3	3.1
90°-150°	150.5	3.5
90°-180°	150.0	3.5
0°-180°	4304.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2047	2047	2047	2047	2047	
5°	2065	1949	1771	1696	1664	196
15°	2034	1625	1556	1906	2023	577
25°	1994	1551	1993	1359	1253	921
35°	1921	1852	945	675	623	1205
45°	1834	838	488	556	605	1422
55°	1684	373	450	538	574	1462
65°	781	242	399	506	525	790
75°	163	148	257	274	286	193
85°	17	73	141	172	179	24
90°	0	53	103	113	112	1
95°	1	42	80	84	80	1
105°	1	28	56	49	44	1
115°	1	3	36	35	32	1
125°	1	1	17	27	26	1
135°	1	1	1	12	14	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°	2047.0	2047.0	2047.0	2047.0	2047.0
2.5°	2065.3	2028.2	1946.0	1890.3	1871.5
5°	2065.3	1949.4	1771.0	1695.6	1663.8
7.5°	2052.8	1849.4	1651.3	1618.7	1598.0
10°	2051.8	1742.7	1590.3	1562.9	1557.1
12.5°	2049.4	1683.6	1543.2	1640.3	1692.7
15°	2034.5	1624.9	1556.2	1905.7	2023.0
17.5°	2032.1	1581.2	1713.8	2156.1	2205.6
20°	2017.2	1546.5	1959.5	2124.4	1949.9
22.5°	2007.6	1522.5	2117.7	1709.0	1471.5
25°	1994.1	1551.4	1992.7	1358.6	1253.3
27.5°	1978.7	1644.1	1651.8	1182.6	1112.9
30°	1961.4	1789.3	1295.1	1033.6	937.0
32.5°	1944.1	1895.6	1102.3	848.5	735.1
35°	1920.6	1851.8	944.7	675.0	623.0
37.5°	1898.4	1649.9	800.9	582.7	567.8
40°	1873.9	1329.2	643.2	546.1	561.5
42.5°	1853.3	1053.8	540.4	542.3	580.3
45°	1833.5	837.5	487.5	556.2	604.8
47.5°	1822.0	665.8	466.3	573.0	612.0
50°	1804.2	533.6	458.6	576.4	598.0
52.5°	1766.7	439.9	456.2	558.6	573.5
55°	1684.0	373.1	449.5	538.4	574.5
57.5°	1531.6	331.7	434.1	542.8	598.0
60°	1308.6	299.5	418.7	556.7	600.9
62.5°	1041.3	270.2	410.6	545.2	572.6
65°	780.7	242.3	399.0	506.2	525.0
67.5°	546.6	218.3	373.1	457.7	467.8
70°	371.6	195.2	340.8	395.6	400.0
72.5°	250.0	172.1	300.9	331.7	338.4
75°	163.0	147.6	256.7	274.0	286.0
77.5°	103.8	125.5	213.0	235.1	250.5
80°	64.4	103.8	179.3	211.0	220.7
82.5°	36.1	86.5	155.3	188.5	193.7
85°	17.3	72.6	141.3	171.6	178.8
87.5°	4.3	61.5	124.5	142.3	142.3
90°	0.5	52.9	103.4	113.0	112.0
92.5°	0.5	46.6	89.9	96.1	94.2
95°	1.0	41.8	80.3	83.6	79.8
97.5°	1.0	39.4	74.0	71.6	65.9
100°	1.0	36.5	67.3	61.1	54.8
102.5°	1.0	32.7	61.5	53.8	48.6
105°	1.0	27.9	56.2	48.6	43.7
107.5°	1.0	22.1	50.5	44.2	40.4
110°	1.0	15.9	45.2	40.9	38.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	9.6	40.9	38.0	35.6
115°	1.0	3.4	36.5	34.6	32.2
117.5°	1.0	1.4	32.2	33.2	30.3
120°	1.0	1.4	26.9	31.2	28.8
122.5°	1.0	1.4	22.1	29.3	27.9
125°	1.0	1.0	16.8	26.9	26.4
127.5°	1.0	1.0	11.5	23.6	24.5
130°	1.0	1.0	5.8	19.2	21.6
132.5°	1.0	1.0	1.0	15.9	17.8
135°	1.0	1.0	1.0	11.5	14.4
137.5°	1.0	1.0	1.0	5.8	10.6
140°	1.0	1.0	1.0	1.0	4.3
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)