

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: P290484

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-SLW-50-L930-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 90 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

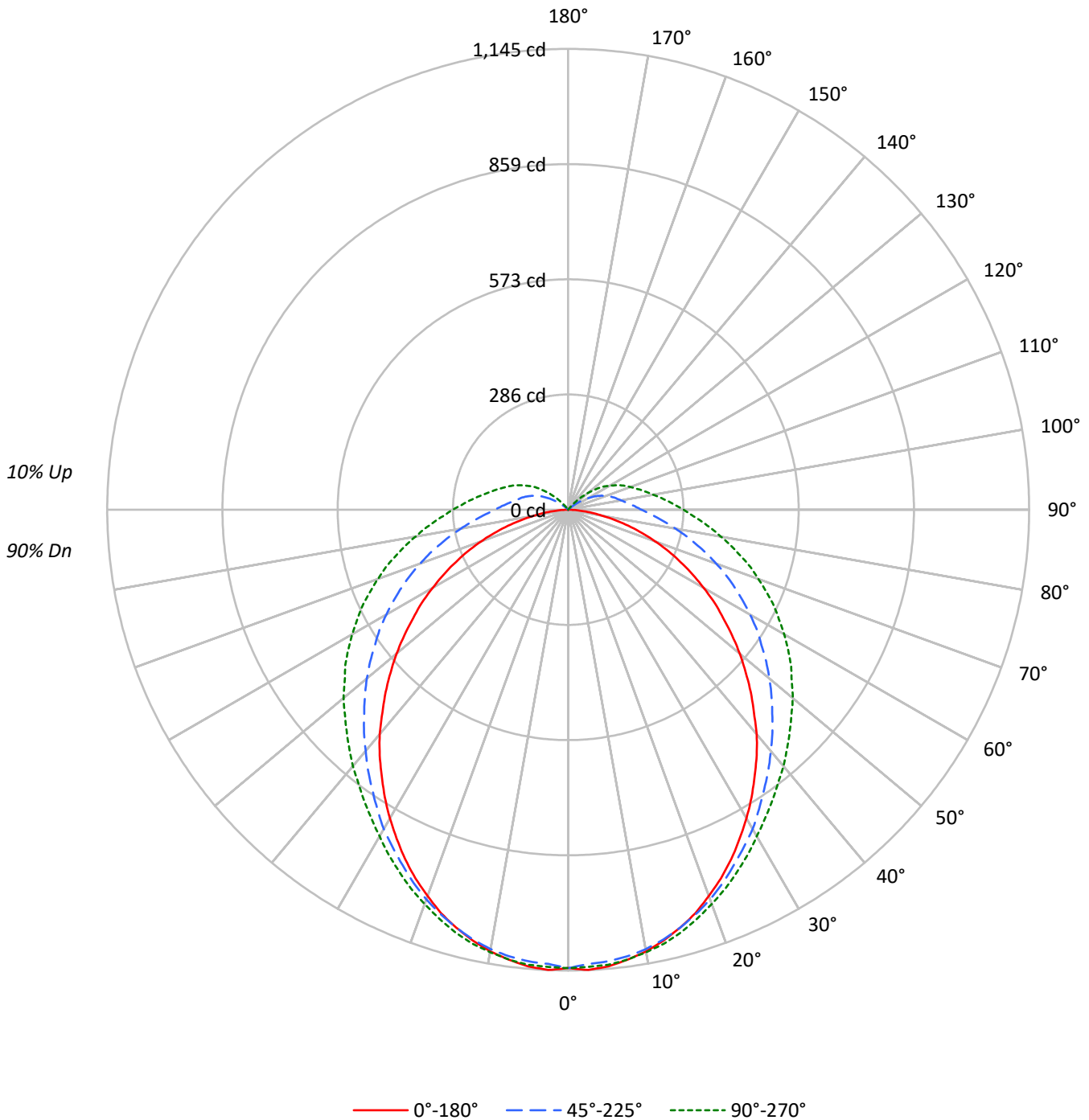
Lumens per Lamp: N/A  
Luminaire Lumens: 3860.1 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input 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	117	117	117	117	113	113	113	113	106	106	106		99	99	99		93	93	93	90
1	104	99	94	89	101	96	91	87	89	86	82		84	81	78		79	76	74	71
2	94	85	78	71	91	82	76	70	77	72	67		72	68	64		68	64	61	58
3	86	74	66	59	82	72	64	58	68	61	55		63	58	53		60	55	51	48
4	78	66	56	49	75	64	55	49	60	53	47		56	50	45		53	48	43	41
5	72	59	49	42	69	57	48	42	54	46	40		50	44	39		48	42	38	35
6	66	53	43	37	64	51	43	36	48	41	35		46	39	34		43	37	33	31
7	61	48	39	32	59	46	38	32	44	36	31		42	35	30		39	34	29	27
8	57	43	35	29	55	42	34	28	40	33	28		38	32	27		36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25		35	29	24		33	28	24	22
10	50	37	29	23	48	36	28	23	34	27	23		33	26	22		31	26	21	20

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

	0°	45°	90°
0°	36777	36777	36777
5°	36850	29239	27253
10°	36407	24212	21464
15°	35735	20396	17532
20°	34825	17398	14590
25°	33808	14921	12344
30°	32625	12934	10557
35°	31363	11184	9159
40°	30173	9744	8048
45°	28689	8518	7109
50°	27265	7473	6344
55°	25707	6519	5669
60°	24210	5686	5048
65°	22542	4911	4495
70°	20522	4187	3956
75°	17862	3523	3468
80°	14469	2934	3024
85°	10204	2446	2634



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.6	2.8
10°-20°	304.4	7.9
20°-30°	450.3	11.7
30°-40°	531.8	13.8
40°-50°	552.8	14.3
50°-60°	521.2	13.5
60°-70°	444.3	11.5
70°-80°	336.0	8.7
80°-90°	226.7	5.9
90°-100°	155.7	4.0
100°-110°	111.6	2.9
110°-120°	71.6	1.9
120°-130°	36.5	0.9
130°-140°	9.3	0.2
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°	862.3	22.3
0°-40°	1394.1	36.1
0°-60°	2468.2	63.9
0°-90°	3475.2	90.0
90°-120°	338.9	8.8
90°-150°	384.9	10.0
90°-180°	385.0	10.0
0°-180°	3860.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1139	1136	1126	1137	1135	108
15°	1075	1078	1075	1086	1086	303
25°	958	969	974	991	993	441
35°	807	826	848	874	883	505
45°	641	673	717	761	778	495
55°	470	519	586	649	676	422
65°	308	371	456	532	563	306
75°	154	229	328	412	443	165
85°	34	115	221	303	332	39
90°	0	81	182	259	286	2
95°	0	64	155	223	248	1
105°	1	41	117	169	188	1
115°	1	5	81	127	143	1
125°	1	1	34	79	95	1
135°	1	0	0	25	37	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°	1138.9	1138.9	1138.9	1138.9	1138.9
2.5°	1144.6	1140.8	1129.7	1139.4	1136.9
5°	1138.9	1136.0	1126.4	1136.9	1135.0
7.5°	1127.8	1127.3	1119.6	1130.7	1127.3
10°	1114.4	1114.8	1108.6	1119.6	1116.3
12.5°	1096.1	1098.0	1093.7	1104.3	1103.8
15°	1074.9	1078.3	1074.9	1085.5	1086.5
17.5°	1050.9	1056.2	1053.8	1066.8	1065.3
20°	1021.1	1028.3	1030.2	1043.2	1042.7
22.5°	991.3	1000.4	1003.8	1017.2	1019.2
25°	958.1	969.2	974.0	990.8	992.7
27.5°	922.1	936.5	945.1	962.0	966.3
30°	885.5	900.9	916.3	933.1	937.0
32.5°	847.5	864.4	882.2	905.2	909.6
35°	807.2	826.4	848.5	874.0	883.1
37.5°	769.2	790.8	816.8	846.6	856.2
40°	728.3	750.4	782.6	816.3	831.7
42.5°	682.6	712.5	750.9	791.3	804.8
45°	641.3	673.0	716.8	761.0	778.3
47.5°	598.0	635.1	684.6	733.6	752.4
50°	556.2	596.6	652.8	705.7	728.3
52.5°	512.9	558.6	619.7	678.3	699.5
55°	470.2	518.7	586.0	649.0	675.9
57.5°	431.7	481.2	555.7	620.2	647.6
60°	388.4	445.6	521.6	590.8	619.7
62.5°	348.5	406.7	488.0	561.5	590.3
65°	308.2	370.6	456.2	531.7	563.4
67.5°	270.2	333.2	424.0	502.4	532.7
70°	229.8	298.1	390.8	471.6	502.4
72.5°	192.8	263.0	360.1	441.8	475.0
75°	154.3	229.3	327.9	411.5	442.8
77.5°	120.2	196.6	299.0	383.1	414.4
80°	87.0	166.8	270.2	354.8	385.1
82.5°	59.1	139.4	244.7	328.8	358.6
85°	34.1	114.9	221.1	302.9	332.2
87.5°	13.0	95.7	200.0	280.3	307.2
90°	0.5	81.2	181.7	259.1	286.5
92.5°	0.5	71.1	167.8	239.9	265.4
95°	0.5	64.4	154.8	223.1	248.1
97.5°	1.0	59.1	143.3	208.2	230.3
100°	1.0	53.8	133.6	193.7	214.9
102.5°	1.0	48.6	125.0	180.8	200.5
105°	1.0	41.3	117.3	168.7	188.0
107.5°	1.0	32.2	108.6	158.6	175.5
110°	1.0	23.6	99.5	148.5	164.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	14.4	91.3	138.5	154.3
115°	1.0	5.3	81.2	127.4	143.3
117.5°	1.0	1.9	69.2	116.8	130.8
120°	1.0	1.4	57.7	105.3	119.2
122.5°	1.0	1.4	45.7	92.8	107.7
125°	1.0	1.4	34.1	79.3	95.2
127.5°	1.0	1.0	22.1	65.4	79.8
130°	1.0	1.0	10.6	51.9	65.9
132.5°	1.0	1.0	0.5	38.0	51.4
135°	1.0	0.5	0.5	25.0	37.0
137.5°	1.0	0.5	0.0	12.0	24.0
140°	1.0	0.5	0.0	0.0	9.6
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)