

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: P290490

Luminaire Tested: **8SSRK-SLW-50-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290490  
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-L840-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4960.6 lumens  
Efficiency: N/A  
Efficacy: 145.1 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

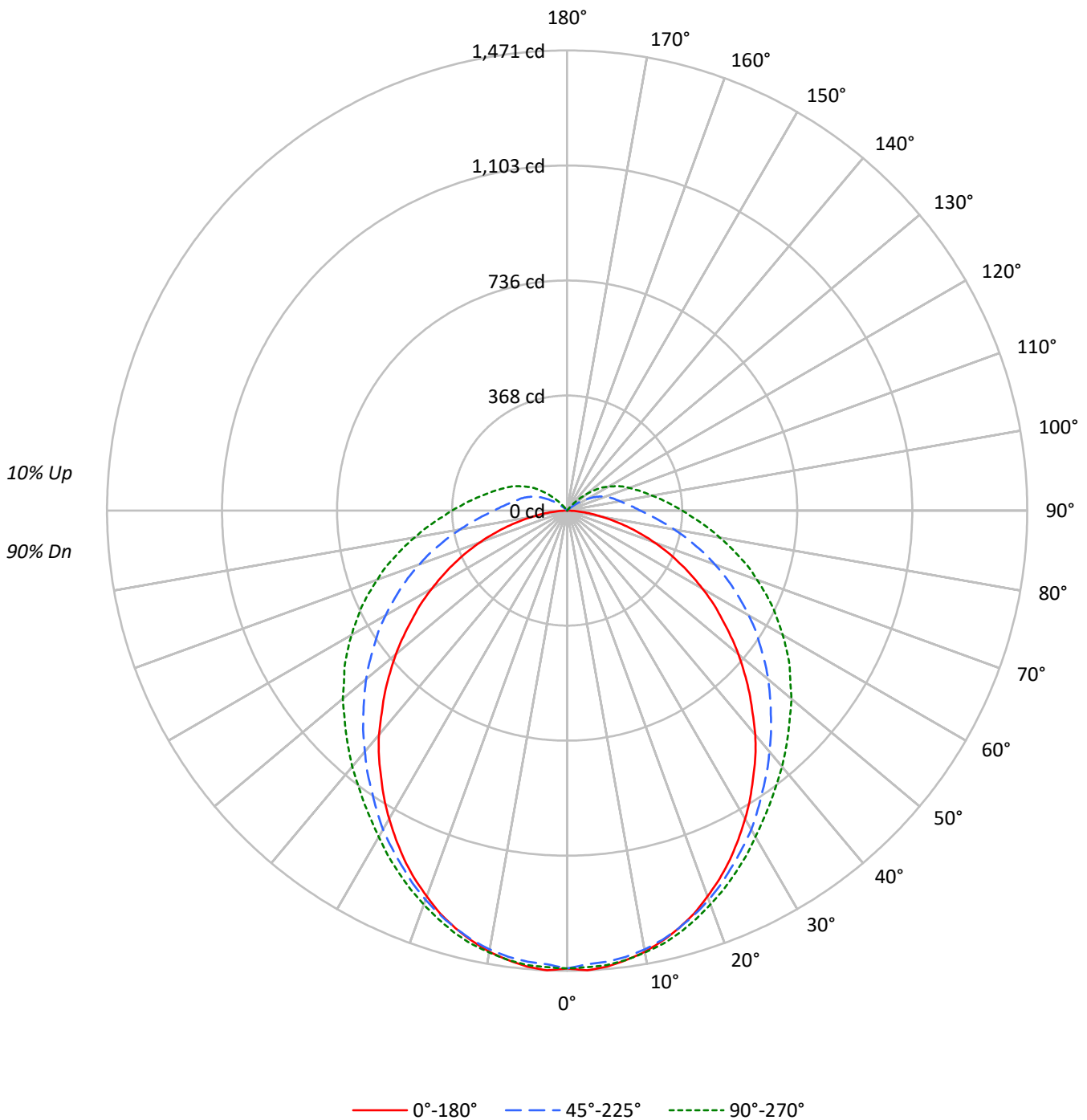
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	47262	47262	47262
5°	47356	37574	35024
10°	46783	31114	27583
15°	45925	26212	22529
20°	44753	22358	18750
25°	43449	19175	15864
30°	41928	16621	13567
35°	40303	14372	11771
40°	38778	12523	10342
45°	36866	10945	9135
50°	35039	9605	8154
55°	33033	8378	7285
60°	31117	7307	6487
65°	28964	6312	5776
70°	26371	5382	5084
75°	22956	4527	4457
80°	18593	3770	3886
85°	13137	3143	3385



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.3	2.8
10°-20°	391.2	7.9
20°-30°	578.7	11.7
30°-40°	683.4	13.8
40°-50°	710.5	14.3
50°-60°	669.8	13.5
60°-70°	571.0	11.5
70°-80°	431.8	8.7
80°-90°	291.4	5.9
90°-100°	200.0	4.0
100°-110°	143.5	2.9
110°-120°	92.0	1.9
120°-130°	47.0	0.9
130°-140°	11.9	0.2
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1108.2	22.3
0°-40°	1791.6	36.1
0°-60°	3171.9	63.9
0°-90°	4466.1	90.0
90°-120°	435.5	8.8
90°-150°	494.5	10.0
90°-180°	495.0	10.0
0°-180°	4960.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1464	1460	1448	1461	1459	139
15°	1381	1386	1381	1395	1396	389
25°	1231	1246	1252	1273	1276	566
35°	1037	1062	1090	1123	1135	650
45°	824	865	921	978	1000	636
55°	604	667	753	834	869	542
65°	396	476	586	683	724	393
75°	198	295	421	529	569	212
85°	44	148	284	389	427	50
90°	1	104	234	333	368	3
95°	1	83	199	287	319	1
105°	1	53	151	217	242	1
115°	1	7	104	164	184	1
125°	1	2	44	102	122	1
135°	1	1	1	32	48	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°	1463.6	1463.6	1463.6	1463.6	1463.6
2.5°	1471.0	1466.0	1451.8	1464.2	1461.1
5°	1463.6	1459.8	1447.5	1461.1	1458.6
7.5°	1449.3	1448.7	1438.8	1453.1	1448.7
10°	1432.0	1432.7	1424.6	1438.8	1434.5
12.5°	1408.6	1411.0	1405.5	1419.1	1418.5
15°	1381.4	1385.7	1381.4	1395.0	1396.2
17.5°	1350.5	1357.3	1354.2	1370.9	1369.0
20°	1312.2	1321.5	1323.9	1340.6	1340.0
22.5°	1273.9	1285.6	1290.0	1307.3	1309.7
25°	1231.3	1245.5	1251.7	1273.3	1275.7
27.5°	1184.9	1203.5	1214.6	1236.2	1241.8
30°	1138.0	1157.7	1177.5	1199.1	1204.1
32.5°	1089.2	1110.8	1133.7	1163.3	1168.9
35°	1037.3	1062.0	1090.4	1123.2	1134.9
37.5°	988.5	1016.3	1049.6	1087.9	1100.3
40°	936.0	964.4	1005.8	1049.0	1068.8
42.5°	877.3	915.6	965.0	1016.9	1034.2
45°	824.1	864.9	921.1	978.0	1000.2
47.5°	768.5	816.1	879.7	942.8	966.8
50°	714.8	766.7	839.0	906.9	936.0
52.5°	659.2	717.9	796.3	871.7	898.9
55°	604.2	666.6	753.1	834.0	868.6
57.5°	554.8	618.4	714.2	797.0	832.2
60°	499.2	572.7	670.3	759.3	796.3
62.5°	447.9	522.7	627.1	721.6	758.7
65°	396.0	476.3	586.3	683.3	724.1
67.5°	347.2	428.1	544.9	645.6	684.5
70°	295.3	383.0	502.3	606.1	645.6
72.5°	247.7	337.9	462.7	567.8	610.4
75°	198.3	294.7	421.3	528.8	569.0
77.5°	154.4	252.7	384.3	492.4	532.5
80°	111.8	214.4	347.2	455.9	494.9
82.5°	76.0	179.2	314.5	422.6	460.9
85°	43.9	147.7	284.2	389.2	426.9
87.5°	16.7	122.9	257.0	360.2	394.8
90°	0.6	104.4	233.5	333.0	368.2
92.5°	0.6	91.4	215.6	308.3	341.0
95°	0.6	82.8	198.9	286.7	318.8
97.5°	1.2	76.0	184.1	267.5	295.9
100°	1.2	69.2	171.7	249.0	276.2
102.5°	1.2	62.4	160.6	232.3	257.6
105°	1.2	53.1	150.7	216.8	241.6
107.5°	1.2	41.4	139.6	203.9	225.5
110°	1.2	30.3	127.9	190.9	211.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	18.5	117.4	177.9	198.3
115°	1.2	6.8	104.4	163.7	184.1
117.5°	1.2	2.5	89.0	150.1	168.0
120°	1.2	1.9	74.1	135.3	153.2
122.5°	1.2	1.9	58.7	119.2	138.4
125°	1.2	1.9	43.9	101.9	122.3
127.5°	1.2	1.2	28.4	84.0	102.6
130°	1.2	1.2	13.6	66.7	84.6
132.5°	1.2	1.2	0.6	48.8	66.1
135°	1.2	0.6	0.6	32.1	47.6
137.5°	1.2	0.6	0.0	15.4	30.9
140°	1.2	0.6	0.0	0.0	12.4
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)