

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: P290050

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-RB-50-L840-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

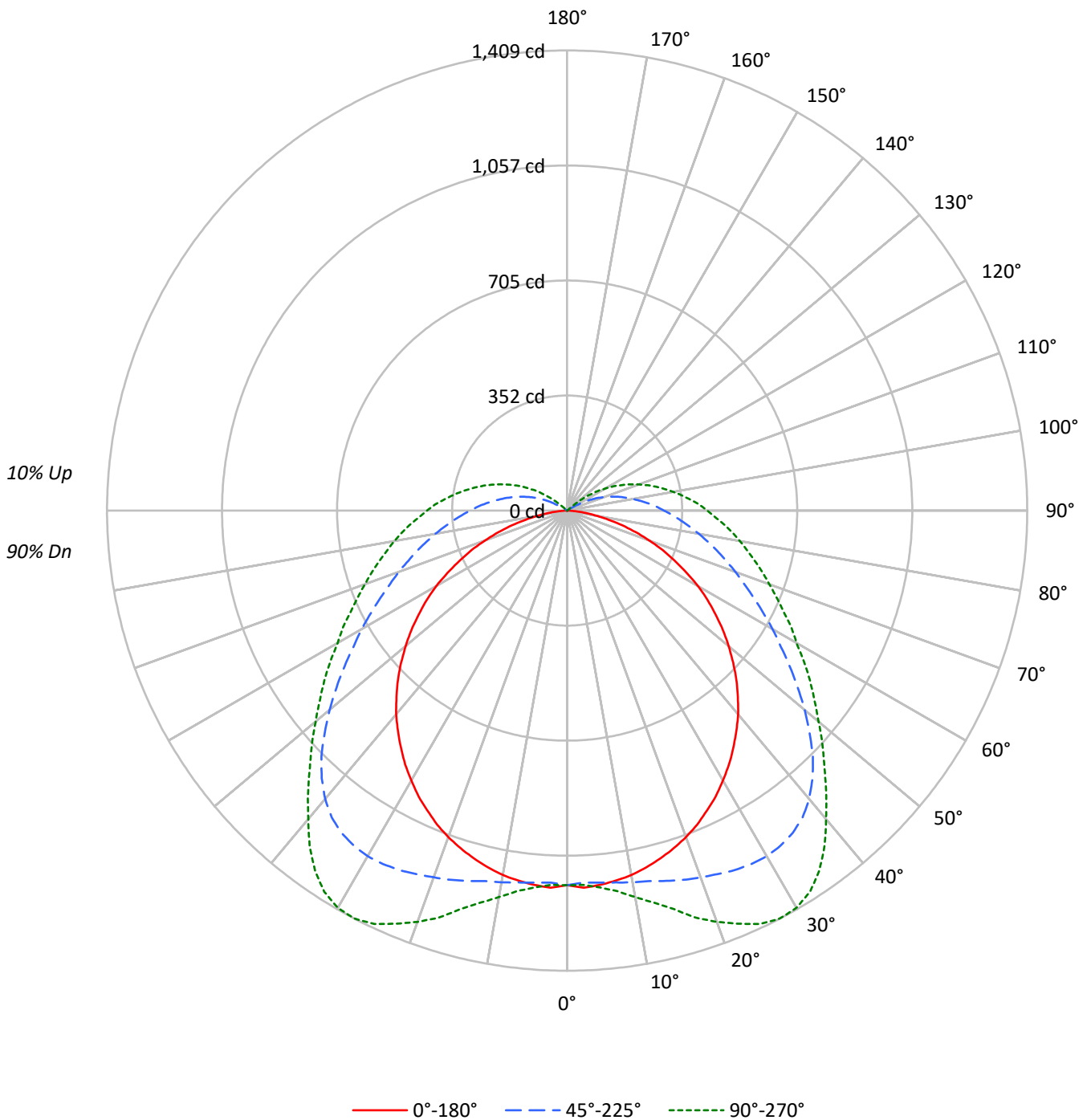
Lumens per Lamp: N/A  
Luminaire Lumens: 5095.0 lumens  
Efficiency: N/A  
Efficacy: 149.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.65 / 1.6  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input 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: P290050

CATALOG NUMBER: 8SSRK-RB-50-L840-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P290050

CATALOG NUMBER: 8SSRK-RB-50-L840-CD1-U

**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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90				
1	104	98	93	88	100	95	90	86	89	85	81	83	80	77	78	75	73	70				
2	94	84	77	70	90	82	74	68	76	70	65	71	67	62	67	63	59	57				
3	85	73	64	57	81	71	63	56	66	60	54	62	56	52	58	54	49	47				
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	46	42	39				
5	71	57	48	41	68	56	47	40	52	45	39	49	43	37	46	41	36	34				
6	65	51	42	35	63	50	41	35	47	39	34	44	38	32	42	36	31	29				
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	25				
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	22				
9	52	38	30	24	50	37	29	24	36	28	23	34	27	23	32	26	22	20				
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	30	24	20	18				

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

	0°	45°	90°
0°	37048	37048	37048
5°	37222	29686	27815
10°	37018	25245	23106
15°	36663	22275	20386
20°	36285	20179	18750
25°	35753	18607	17363
30°	35145	17250	15822
35°	34471	15879	13956
40°	33761	14353	11933
45°	32777	12642	10174
50°	31618	10864	8756
55°	30332	9258	7612
60°	28842	7921	6608
65°	26477	6785	5826
70°	23942	5872	5186
75°	20236	5105	4661
80°	15201	4448	4220
85°	8319	3868	3817



TEST NUMBER: P290050

CATALOG NUMBER: 8SSRK-RB-50-L840-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.3	2.2
10°-20°	335.6	6.6
20°-30°	558.7	11.0
30°-40°	722.6	14.2
40°-50°	763.2	15.0
50°-60°	703.7	13.8
60°-70°	591.4	11.6
70°-80°	463.3	9.1
80°-90°	340.9	6.7
90°-100°	242.9	4.8
100°-110°	156.0	3.1
110°-120°	81.9	1.6
120°-130°	23.8	0.5
130°-140°	0.6	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1004.7	19.7
0°-40°	1727.3	33.9
0°-60°	3194.2	62.7
0°-90°	4589.8	90.1
90°-120°	480.8	9.4
90°-150°	505.2	9.9
90°-180°	505.0	9.9
0°-180°	5095.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1150	1150	1144	1158	1158	109
15°	1103	1124	1174	1244	1263	311
25°	1013	1070	1215	1354	1396	467
35°	887	986	1205	1328	1346	555
45°	733	863	1064	1110	1114	565
55°	555	690	832	889	908	496
65°	362	496	630	707	730	360
75°	175	322	475	565	595	186
85°	28	188	350	449	481	37
90°	1	138	297	397	429	1
95°	2	100	250	348	379	1
105°	2	33	162	253	282	2
115°	1	2	78	157	184	1
125°	1	1	0	56	83	1
135°	0	0	0	0	0	0
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: P290050

CATALOG NUMBER: 8SSRK-RB-50-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1147.3	1147.3	1147.3	1147.3	1147.3
2.5°	1155.9	1151.0	1139.9	1149.8	1147.3
5°	1150.4	1149.8	1143.6	1158.4	1158.4
7.5°	1143.0	1145.4	1148.5	1173.2	1175.1
10°	1133.1	1140.5	1155.9	1193.6	1201.7
12.5°	1118.9	1132.5	1162.1	1216.5	1229.5
15°	1102.8	1124.4	1173.9	1243.7	1263.4
17.5°	1084.3	1112.7	1185.6	1277.0	1306.7
20°	1063.9	1100.9	1194.9	1307.3	1340.0
22.5°	1040.4	1086.7	1204.7	1332.0	1369.1
25°	1013.2	1070.1	1214.6	1353.6	1396.3
27.5°	986.0	1052.8	1220.2	1367.2	1408.6
30°	953.9	1033.6	1222.0	1369.1	1404.3
32.5°	922.4	1012.6	1216.5	1356.1	1383.9
35°	887.2	986.0	1204.7	1327.7	1345.6
37.5°	850.7	957.6	1184.4	1283.8	1294.9
40°	814.9	931.1	1152.8	1228.2	1233.2
42.5°	773.5	897.1	1112.1	1169.5	1174.5
45°	732.7	863.1	1063.9	1109.6	1113.9
47.5°	689.5	824.2	1007.0	1049.7	1060.2
50°	645.0	781.5	949.0	994.1	1005.2
52.5°	601.8	737.7	890.3	941.6	954.5
55°	554.8	689.5	832.2	889.0	907.6
57.5°	509.7	641.9	776.0	839.0	859.4
60°	462.7	593.1	726.6	792.7	811.2
62.5°	413.3	543.7	675.9	750.0	773.5
65°	362.0	495.5	630.2	707.4	730.3
67.5°	316.9	449.2	586.3	667.9	693.8
70°	268.1	404.7	548.0	632.6	658.6
72.5°	220.6	363.3	509.7	598.7	626.5
75°	174.8	322.5	475.1	565.3	595.0
77.5°	130.4	284.8	441.1	535.0	564.7
80°	91.4	250.2	409.6	506.0	537.5
82.5°	56.8	219.3	378.7	477.6	509.7
85°	27.8	188.4	349.7	449.2	481.3
87.5°	8.0	161.3	322.5	422.0	453.5
90°	0.6	138.4	296.6	397.3	428.8
92.5°	1.2	118.0	274.3	372.5	405.9
95°	1.9	100.1	249.6	348.4	379.3
97.5°	1.9	82.8	226.7	324.4	354.6
100°	1.9	66.1	204.5	299.0	329.9
102.5°	1.9	50.0	182.9	275.5	305.2
105°	1.9	32.7	162.5	252.7	282.3
107.5°	1.9	14.2	140.9	228.0	257.6
110°	1.9	3.1	119.9	205.1	234.2



TEST NUMBER: P290050

CATALOG NUMBER: 8SSRK-RB-50-L840-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	100.1	181.0	210.1
115°	1.2	1.9	77.8	156.9	184.1
117.5°	1.2	1.2	53.1	133.4	161.3
120°	1.2	1.2	27.8	110.0	135.3
122.5°	1.2	0.6	5.6	84.0	111.8
125°	1.2	0.6	0.0	56.2	83.4
127.5°	1.2	0.6	0.0	29.0	56.8
130°	0.6	0.6	0.0	4.3	27.2
132.5°	0.6	0.6	0.0	0.0	1.2
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)