

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: P290047

Luminaire Tested: **8SSRK-RB-50-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290047  
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-L950-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 90 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4590.6 lumens  
Efficiency: N/A  
Efficacy: 134.2 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

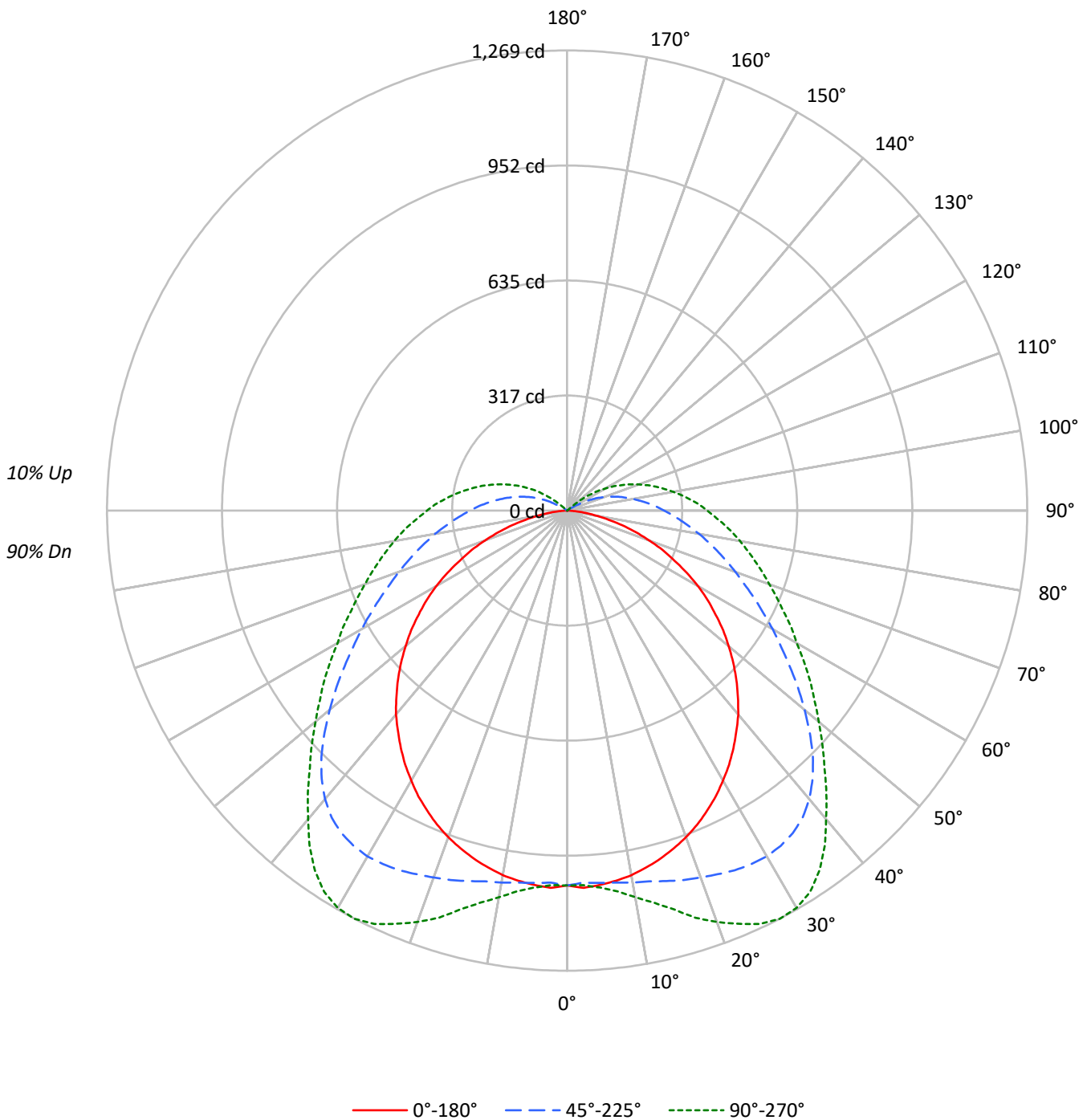
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	33380	33380	33380
5°	33537	26747	25061
10°	33352	22747	20818
15°	33032	20068	18369
20°	32693	18182	16895
25°	32213	16766	15644
30°	31667	15543	14256
35°	31060	14308	12575
40°	30417	12932	10751
45°	29534	11391	9166
50°	28485	9788	7890
55°	27330	8342	6858
60°	25987	7136	5954
65°	23858	6113	5249
70°	21575	5291	4673
75°	18233	4600	4199
80°	13704	4008	3802
85°	7481	3485	3439



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.4	2.2
10°-20°	302.4	6.6
20°-30°	503.4	11.0
30°-40°	651.1	14.2
40°-50°	687.7	15.0
50°-60°	634.0	13.8
60°-70°	532.8	11.6
70°-80°	417.5	9.1
80°-90°	307.1	6.7
90°-100°	218.9	4.8
100°-110°	140.6	3.1
110°-120°	73.8	1.6
120°-130°	21.5	0.5
130°-140°	0.5	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°	905.2	19.7
0°-40°	1556.3	33.9
0°-60°	2878.0	62.7
0°-90°	4135.4	90.1
90°-120°	433.3	9.4
90°-150°	455.2	9.9
90°-180°	455.0	9.9
0°-180°	4590.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1036	1036	1030	1044	1044	98
15°	994	1013	1058	1120	1138	280
25°	913	964	1094	1220	1258	421
35°	799	888	1086	1196	1212	500
45°	660	778	959	1000	1004	509
55°	500	621	750	801	818	447
65°	326	446	568	637	658	325
75°	158	291	428	509	536	168
85°	25	170	315	405	434	33
90°	1	125	267	358	386	1
95°	2	90	225	314	342	1
105°	2	30	146	228	254	2
115°	1	2	70	141	166	1
125°	1	1	0	51	75	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1033.7	1033.7	1033.7	1033.7	1033.7
2.5°	1041.5	1037.0	1027.0	1035.9	1033.7
5°	1036.5	1035.9	1030.4	1043.7	1043.7
7.5°	1029.8	1032.0	1034.8	1057.1	1058.8
10°	1020.9	1027.6	1041.5	1075.5	1082.7
12.5°	1008.1	1020.3	1047.1	1096.0	1107.7
15°	993.6	1013.1	1057.6	1120.5	1138.4
17.5°	976.9	1002.5	1068.2	1150.6	1177.3
20°	958.6	992.0	1076.6	1177.9	1207.4
22.5°	937.4	979.2	1085.5	1200.1	1233.5
25°	912.9	964.1	1094.4	1219.6	1258.0
27.5°	888.4	948.5	1099.4	1231.9	1269.2
30°	859.5	931.3	1101.1	1233.5	1265.3
32.5°	831.1	912.4	1096.0	1221.9	1246.9
35°	799.4	888.4	1085.5	1196.2	1212.4
37.5°	766.5	862.8	1067.1	1156.7	1166.7
40°	734.2	838.9	1038.7	1106.6	1111.1
42.5°	696.9	808.3	1002.0	1053.7	1058.2
45°	660.2	777.6	958.6	999.7	1003.6
47.5°	621.2	742.6	907.3	945.8	955.2
50°	581.1	704.2	855.0	895.7	905.7
52.5°	542.2	664.6	802.1	848.3	860.0
55°	499.9	621.2	749.8	801.0	817.7
57.5°	459.2	578.4	699.2	755.9	774.3
60°	416.9	534.4	654.6	714.2	730.9
62.5°	372.4	489.9	609.0	675.8	696.9
65°	326.2	446.4	567.8	637.4	658.0
67.5°	285.6	404.7	528.3	601.7	625.1
70°	241.6	364.6	493.8	570.0	593.4
72.5°	198.7	327.3	459.2	539.4	564.4
75°	157.5	290.6	428.1	509.3	536.1
77.5°	117.5	256.6	397.5	482.1	508.8
80°	82.4	225.4	369.1	455.9	484.3
82.5°	51.2	197.6	341.2	430.3	459.2
85°	25.0	169.8	315.1	404.7	433.6
87.5°	7.2	145.3	290.6	380.2	408.6
90°	0.6	124.7	267.2	357.9	386.3
92.5°	1.1	106.3	247.2	335.7	365.7
95°	1.7	90.2	224.9	314.0	341.8
97.5°	1.7	74.6	204.3	292.2	319.5
100°	1.7	59.6	184.3	269.4	297.3
102.5°	1.7	45.1	164.8	248.3	275.0
105°	1.7	29.5	146.4	227.7	254.4
107.5°	1.7	12.8	126.9	205.4	232.1
110°	1.7	2.8	108.0	184.8	211.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	1.7	90.2	163.1	189.3
115°	1.1	1.7	70.1	141.4	165.9
117.5°	1.1	1.1	47.9	120.2	145.3
120°	1.1	1.1	25.0	99.1	121.9
122.5°	1.1	0.6	5.0	75.7	100.8
125°	1.1	0.6	0.0	50.7	75.1
127.5°	1.1	0.6	0.0	26.2	51.2
130°	0.6	0.6	0.0	3.9	24.5
132.5°	0.6	0.6	0.0	0.0	1.1
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)