

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: P290048

Luminaire Tested: **8SSRK-RB-50-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290048  
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-L830-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4925.1 lumens  
Efficiency: N/A  
Efficacy: 144.0 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

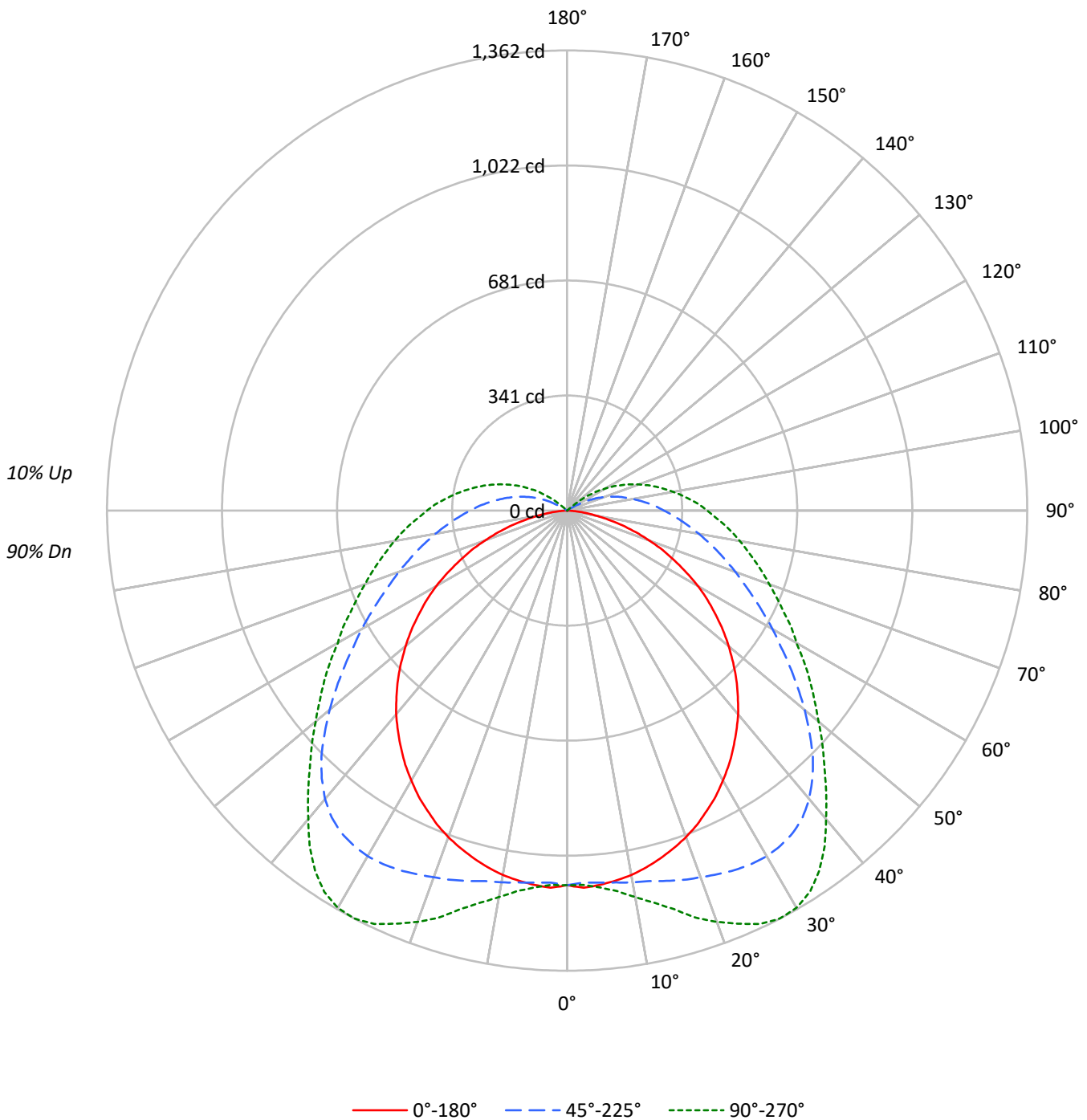
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	35811	35811	35811
5°	35980	28694	26888
10°	35783	24405	22335
15°	35439	21531	19707
20°	35074	19506	18126
25°	34560	17987	16784
30°	33974	16675	15295
35°	33321	15350	13490
40°	32634	13875	11534
45°	31686	12220	9835
50°	30564	10501	8465
55°	29321	8949	7358
60°	27882	7656	6387
65°	25599	6559	5631
70°	23147	5676	5013
75°	19564	4935	4505
80°	14702	4300	4080
85°	8050	3739	3689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.6	2.2
10°-20°	324.4	6.6
20°-30°	540.1	11.0
30°-40°	698.5	14.2
40°-50°	737.8	15.0
50°-60°	680.2	13.8
60°-70°	571.6	11.6
70°-80°	447.9	9.1
80°-90°	329.5	6.7
90°-100°	234.8	4.8
100°-110°	150.8	3.1
110°-120°	79.2	1.6
120°-130°	23.0	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°	971.2	19.7
0°-40°	1669.7	33.9
0°-60°	3087.7	62.7
0°-90°	4436.7	90.1
90°-120°	464.8	9.4
90°-150°	488.4	9.9
90°-180°	488.0	9.9
0°-180°	4925.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1112	1111	1105	1120	1120	106
15°	1066	1087	1135	1202	1221	301
25°	979	1034	1174	1308	1350	451
35°	858	953	1165	1283	1301	536
45°	708	834	1028	1073	1077	546
55°	536	666	804	859	877	480
65°	350	479	609	684	706	349
75°	169	312	459	546	575	180
85°	27	182	338	434	465	35
90°	1	134	287	384	414	1
95°	2	97	241	337	367	1
105°	2	32	157	244	273	2
115°	1	2	75	152	178	1
125°	1	1	0	54	81	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°	1109.0	1109.0	1109.0	1109.0	1109.0
2.5°	1117.4	1112.6	1101.9	1111.4	1109.0
5°	1112.0	1111.4	1105.4	1119.8	1119.8
7.5°	1104.8	1107.2	1110.2	1134.1	1135.9
10°	1095.3	1102.5	1117.4	1153.8	1161.6
12.5°	1081.6	1094.7	1123.4	1175.9	1188.5
15°	1066.0	1086.9	1134.7	1202.2	1221.3
17.5°	1048.1	1075.6	1146.1	1234.4	1263.1
20°	1028.4	1064.2	1155.0	1263.7	1295.4
22.5°	1005.7	1050.5	1164.6	1287.6	1323.4
25°	979.4	1034.4	1174.1	1308.5	1349.7
27.5°	953.2	1017.7	1179.5	1321.6	1361.6
30°	922.1	999.1	1181.3	1323.4	1357.5
32.5°	891.6	978.8	1175.9	1310.9	1337.8
35°	857.6	953.2	1164.6	1283.4	1300.7
37.5°	822.4	925.7	1144.9	1241.0	1251.8
40°	787.7	900.0	1114.4	1187.3	1192.0
42.5°	747.7	867.2	1075.0	1130.5	1135.3
45°	708.3	834.3	1028.4	1072.6	1076.8
47.5°	666.5	796.7	973.5	1014.7	1024.8
50°	623.5	755.5	917.3	960.9	971.7
52.5°	581.7	713.1	860.6	910.2	922.7
55°	536.3	666.5	804.4	859.4	877.3
57.5°	492.7	620.5	750.1	811.0	830.7
60°	447.3	573.3	702.3	766.2	784.1
62.5°	399.5	525.5	653.4	725.0	747.7
65°	350.0	479.0	609.2	683.8	705.9
67.5°	306.4	434.2	566.8	645.6	670.7
70°	259.2	391.2	529.7	611.5	636.6
72.5°	213.2	351.2	492.7	578.7	605.6
75°	169.0	311.7	459.3	546.4	575.1
77.5°	126.0	275.3	426.4	517.2	545.9
80°	88.4	241.9	396.0	489.1	519.6
82.5°	54.9	212.0	366.1	461.6	492.7
85°	26.9	182.1	338.0	434.2	465.2
87.5°	7.8	155.9	311.7	407.9	438.4
90°	0.6	133.8	286.7	384.0	414.5
92.5°	1.2	114.1	265.2	360.1	392.4
95°	1.8	96.7	241.3	336.8	366.7
97.5°	1.8	80.0	219.2	313.5	342.8
100°	1.8	63.9	197.7	289.1	318.9
102.5°	1.8	48.4	176.8	266.4	295.0
105°	1.8	31.7	157.1	244.3	272.9
107.5°	1.8	13.7	136.2	220.4	249.0
110°	1.8	3.0	115.9	198.3	226.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	1.8	96.7	175.0	203.1
115°	1.2	1.8	75.2	151.7	178.0
117.5°	1.2	1.2	51.4	129.0	155.9
120°	1.2	1.2	26.9	106.3	130.8
122.5°	1.2	0.6	5.4	81.2	108.1
125°	1.2	0.6	0.0	54.3	80.6
127.5°	1.2	0.6	0.0	28.1	54.9
130°	0.6	0.6	0.0	4.2	26.3
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)