

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: P290002

Luminaire Tested: **4SSRK-RB-20-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290002  
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: 4SSRK-RB-20-L840-CD1-U  
Description: 2000 LUMEN, 4 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: 2026.1 lumens  
Efficiency: N/A  
Efficacy: 147.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.65 / 1.6  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

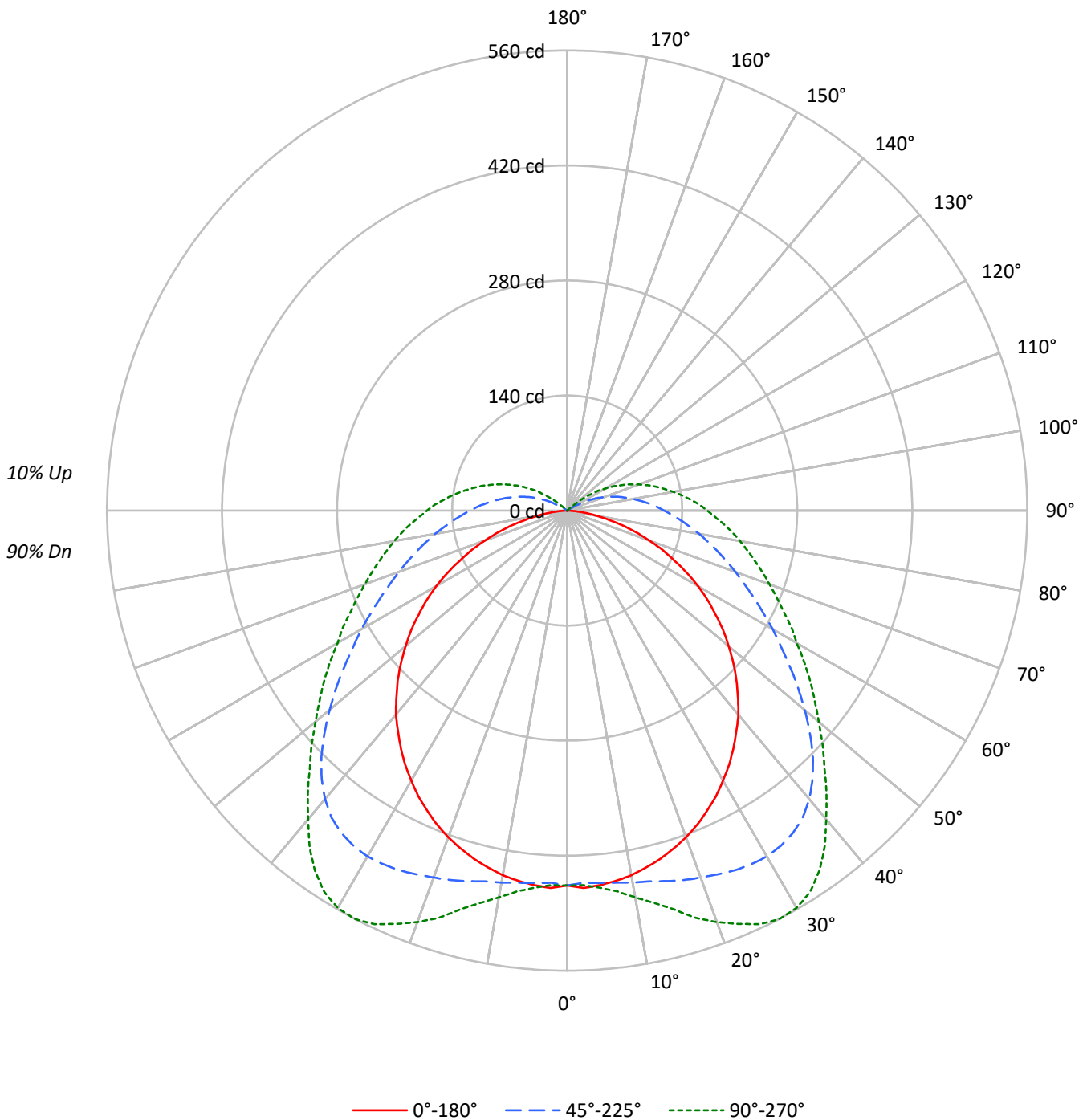
Input Watts (W): 13.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	29463	29463	29463
5°	29552	23587	22125
10°	29334	20045	18378
15°	29002	17676	16214
20°	28644	16008	14913
25°	28163	14755	13811
30°	27621	13677	12583
35°	27027	12586	11100
40°	26401	11376	9490
45°	25550	10017	8092
50°	24552	8606	6964
55°	23444	7332	6054
60°	22167	6272	5256
65°	20201	5372	4633
70°	18061	4648	4125
75°	15008	4041	3707
80°	10950	3521	3356
85°	5572	3062	3036



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.9	2.2
10°-20°	133.5	6.6
20°-30°	222.2	11.0
30°-40°	287.4	14.2
40°-50°	303.5	15.0
50°-60°	279.8	13.8
60°-70°	235.2	11.6
70°-80°	184.3	9.1
80°-90°	135.5	6.7
90°-100°	96.6	4.8
100°-110°	62.1	3.1
110°-120°	32.6	1.6
120°-130°	9.5	0.5
130°-140°	0.2	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°	399.5	19.7
0°-40°	686.9	33.9
0°-60°	1270.2	62.7
0°-90°	1825.2	90.1
90°-120°	191.2	9.4
90°-150°	200.9	9.9
90°-180°	201.0	9.9
0°-180°	2026.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	458	457	455	461	461	43
15°	439	447	467	495	502	124
25°	403	426	483	538	555	186
35°	353	392	479	528	535	221
45°	291	343	423	441	443	225
55°	221	274	331	354	361	197
65°	144	197	251	281	290	143
75°	70	128	189	225	237	74
85°	11	75	139	179	191	15
90°	0	55	118	158	170	1
95°	1	40	99	139	151	1
105°	1	13	65	100	112	1
115°	0	1	31	62	73	1
125°	0	0	0	22	33	0
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°	456.2	456.2	456.2	456.2	456.2
2.5°	459.7	457.7	453.3	457.2	456.2
5°	457.5	457.2	454.8	460.7	460.7
7.5°	454.5	455.5	456.7	466.6	467.3
10°	450.6	453.5	459.7	474.7	477.9
12.5°	444.9	450.3	462.1	483.8	488.9
15°	438.6	447.2	466.8	494.6	502.4
17.5°	431.2	442.5	471.5	507.8	519.6
20°	423.1	437.8	475.2	519.9	532.9
22.5°	413.7	432.2	479.1	529.7	544.4
25°	402.9	425.5	483.0	538.3	555.3
27.5°	392.1	418.7	485.2	543.7	560.2
30°	379.3	411.0	486.0	544.4	558.4
32.5°	366.8	402.7	483.8	539.3	550.3
35°	352.8	392.1	479.1	528.0	535.1
37.5°	338.3	380.8	471.0	510.5	515.0
40°	324.1	370.3	458.5	488.4	490.4
42.5°	307.6	356.7	442.2	465.1	467.1
45°	291.4	343.2	423.1	441.3	443.0
47.5°	274.2	327.7	400.5	417.4	421.6
50°	256.5	310.8	377.4	395.3	399.7
52.5°	239.3	293.4	354.0	374.4	379.6
55°	220.6	274.2	330.9	353.5	360.9
57.5°	202.7	255.3	308.6	333.6	341.8
60°	184.0	235.9	288.9	315.2	322.6
62.5°	164.4	216.2	268.8	298.3	307.6
65°	144.0	197.0	250.6	281.3	290.4
67.5°	126.0	178.6	233.2	265.6	275.9
70°	106.6	160.9	217.9	251.6	261.9
72.5°	87.7	144.5	202.7	238.1	249.1
75°	69.5	128.2	188.9	224.8	236.6
77.5°	51.8	113.3	175.4	212.8	224.6
80°	36.4	99.5	162.9	201.2	213.7
82.5°	22.6	87.2	150.6	189.9	202.7
85°	11.1	74.9	139.1	178.6	191.4
87.5°	3.2	64.1	128.2	167.8	180.3
90°	0.2	55.0	117.9	158.0	170.5
92.5°	0.5	46.9	109.1	148.1	161.4
95°	0.7	39.8	99.3	138.6	150.9
97.5°	0.7	32.9	90.2	129.0	141.0
100°	0.7	26.3	81.3	118.9	131.2
102.5°	0.7	19.9	72.7	109.6	121.4
105°	0.7	13.0	64.6	100.5	112.3
107.5°	0.7	5.7	56.0	90.7	102.5
110°	0.7	1.2	47.7	81.6	93.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	39.8	72.0	83.5
115°	0.5	0.7	31.0	62.4	73.2
117.5°	0.5	0.5	21.1	53.1	64.1
120°	0.5	0.5	11.1	43.7	53.8
122.5°	0.5	0.2	2.2	33.4	44.5
125°	0.5	0.2	0.0	22.4	33.2
127.5°	0.5	0.2	0.0	11.5	22.6
130°	0.2	0.2	0.0	1.7	10.8
132.5°	0.2	0.2	0.0	0.0	0.5
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)