

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: P289996

Luminaire Tested: **4SSRK-RB-20-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289996  
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-L930-CD1-U  
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 90 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1576.7 lumens  
Efficiency: N/A  
Efficacy: 115.1 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

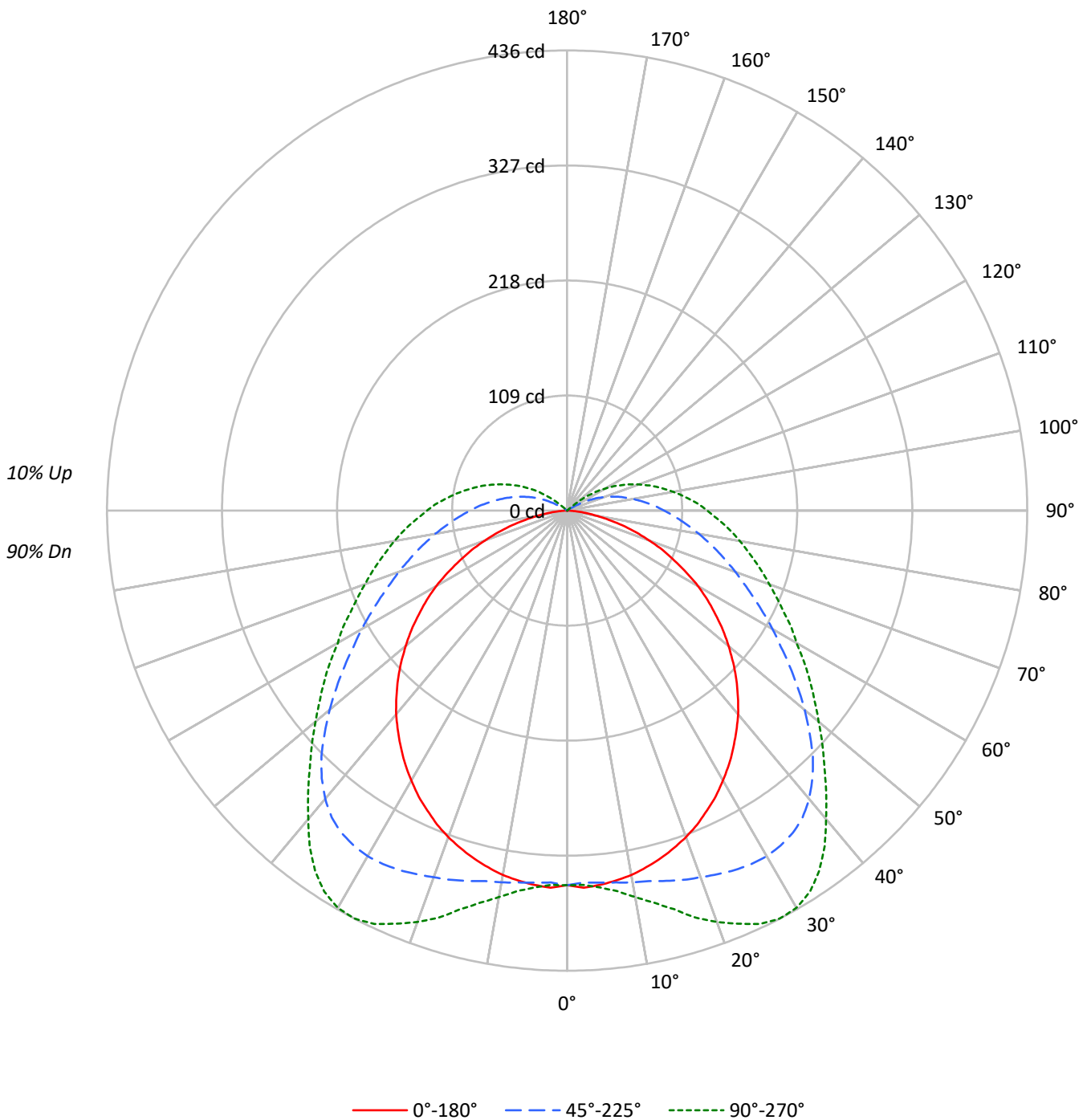
Input Watts (W): 13.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	22927	22927	22927
5°	22996	18354	17216
10°	22824	15598	14302
15°	22568	13753	12618
20°	22287	12454	11605
25°	21914	11483	10747
30°	21497	10643	9793
35°	21028	9794	8637
40°	20544	8850	7385
45°	19877	7794	6297
50°	19106	6698	5420
55°	18247	5706	4710
60°	17252	4880	4089
65°	15712	4180	3606
70°	14063	3618	3210
75°	11683	3144	2884
80°	8514	2741	2611
85°	4317	2382	2362



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.1	2.2
10°-20°	103.9	6.6
20°-30°	172.9	11.0
30°-40°	223.6	14.2
40°-50°	236.2	15.0
50°-60°	217.8	13.8
60°-70°	183.0	11.6
70°-80°	143.4	9.1
80°-90°	105.5	6.7
90°-100°	75.2	4.8
100°-110°	48.3	3.1
110°-120°	25.4	1.6
120°-130°	7.4	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°	310.9	19.7
0°-40°	534.5	33.9
0°-60°	988.4	62.7
0°-90°	1420.3	90.1
90°-120°	148.8	9.4
90°-150°	156.4	9.9
90°-180°	156.0	9.9
0°-180°	1576.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	355	355	355	355	355	
5°	356	356	354	358	358	34
15°	341	348	363	385	391	96
25°	314	331	376	419	432	145
35°	274	305	373	411	416	172
45°	227	267	329	343	345	175
55°	172	213	258	275	281	154
65°	112	153	195	219	226	112
75°	54	100	147	175	184	58
85°	9	58	108	139	149	11
90°	0	43	92	123	133	0
95°	1	31	77	108	117	0
105°	1	10	50	78	87	1
115°	0	1	24	49	57	0
125°	0	0	0	17	26	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°	355.0	355.0	355.0	355.0	355.0
2.5°	357.7	356.2	352.7	355.8	355.0
5°	356.0	355.8	353.9	358.5	358.5
7.5°	353.7	354.5	355.4	363.1	363.6
10°	350.6	352.9	357.7	369.4	371.9
12.5°	346.2	350.4	359.6	376.4	380.5
15°	341.3	348.0	363.2	384.9	391.0
17.5°	335.5	344.3	366.9	395.2	404.4
20°	329.2	340.7	369.7	404.5	414.7
22.5°	322.0	336.3	372.8	412.2	423.7
25°	313.5	331.1	375.9	418.9	432.1
27.5°	305.1	325.8	377.6	423.1	435.9
30°	295.2	319.8	378.2	423.7	434.6
32.5°	285.4	313.3	376.4	419.6	428.2
35°	274.5	305.1	372.8	410.9	416.4
37.5°	263.3	296.3	366.5	397.3	400.7
40°	252.2	288.1	356.7	380.1	381.6
42.5°	239.4	277.6	344.1	361.9	363.4
45°	226.7	267.1	329.2	343.4	344.7
47.5°	213.4	255.0	311.6	324.8	328.1
50°	199.6	241.8	293.7	307.6	311.1
52.5°	186.2	228.3	275.5	291.4	295.4
55°	171.7	213.4	257.5	275.1	280.8
57.5°	157.7	198.6	240.1	259.6	265.9
60°	143.2	183.5	224.8	245.3	251.0
62.5°	127.9	168.2	209.2	232.1	239.4
65°	112.0	153.3	195.0	218.9	226.0
67.5°	98.1	139.0	181.4	206.7	214.7
70°	83.0	125.2	169.6	195.8	203.8
72.5°	68.3	112.4	157.7	185.3	193.9
75°	54.1	99.8	147.0	174.9	184.1
77.5°	40.3	88.1	136.5	165.6	174.7
80°	28.3	77.4	126.8	156.6	166.3
82.5°	17.6	67.9	117.2	147.8	157.7
85°	8.6	58.3	108.2	139.0	148.9
87.5°	2.5	49.9	99.8	130.6	140.3
90°	0.2	42.8	91.8	122.9	132.7
92.5°	0.4	36.5	84.9	115.3	125.6
95°	0.6	31.0	77.2	107.8	117.4
97.5°	0.6	25.6	70.2	100.4	109.7
100°	0.6	20.5	63.3	92.5	102.1
102.5°	0.6	15.5	56.6	85.3	94.4
105°	0.6	10.1	50.3	78.2	87.4
107.5°	0.6	4.4	43.6	70.5	79.7
110°	0.6	1.0	37.1	63.5	72.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	31.0	56.0	65.0
115°	0.4	0.6	24.1	48.6	57.0
117.5°	0.4	0.4	16.4	41.3	49.9
120°	0.4	0.4	8.6	34.0	41.9
122.5°	0.4	0.2	1.7	26.0	34.6
125°	0.4	0.2	0.0	17.4	25.8
127.5°	0.4	0.2	0.0	9.0	17.6
130°	0.2	0.2	0.0	1.3	8.4
132.5°	0.2	0.2	0.0	0.0	0.4
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)