

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: P290016

Luminaire Tested: **4SSRK-RB-40-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290016  
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-40-L830-CD1-U  
Description: 4000 LUMEN, 4 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: 3937.9 lumens  
Efficiency: N/A  
Efficacy: 142.2 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

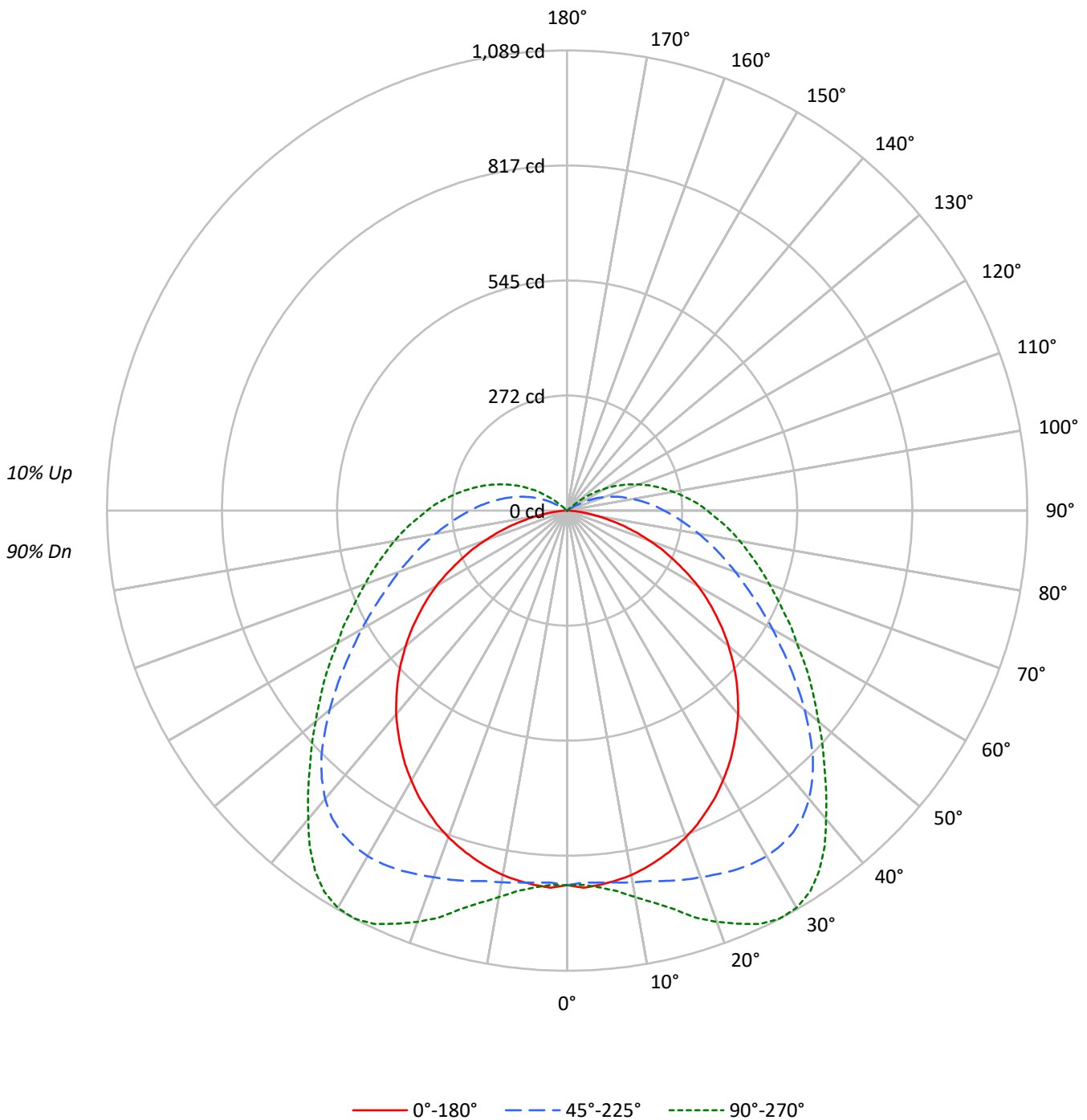
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	57266	57266	57266
5°	57431	45841	42996
10°	57015	38957	35718
15°	56363	34355	31514
20°	55671	31110	28984
25°	54740	28679	26840
30°	53692	26579	24458
35°	52529	24461	21573
40°	51303	22106	18445
45°	49654	19468	15728
50°	47716	16727	13535
55°	45570	14252	11767
60°	43093	12192	10215
65°	39251	10442	9005
70°	35106	9036	8016
75°	29175	7854	7203
80°	21269	6843	6523
85°	10792	5950	5900



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	2.2
10°-20°	259.4	6.6
20°-30°	431.8	11.0
30°-40°	558.5	14.2
40°-50°	589.9	15.0
50°-60°	543.9	13.8
60°-70°	457.1	11.6
70°-80°	358.1	9.1
80°-90°	263.5	6.7
90°-100°	187.7	4.8
100°-110°	120.6	3.1
110°-120°	63.3	1.6
120°-130°	18.4	0.5
130°-140°	0.4	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°	776.5	19.7
0°-40°	1335.0	33.9
0°-60°	2468.8	62.7
0°-90°	3547.4	90.1
90°-120°	371.6	9.4
90°-150°	390.5	9.9
90°-180°	390.0	9.9
0°-180°	3937.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	889	889	884	895	895	84
15°	852	869	907	961	976	240
25°	783	827	939	1046	1079	361
35°	686	762	931	1026	1040	429
45°	566	667	822	858	861	436
55°	429	533	643	687	702	384
65°	280	383	487	547	564	279
75°	135	249	367	437	460	144
85°	22	146	270	347	372	28
90°	0	107	229	307	331	1
95°	1	77	193	269	293	1
105°	1	25	126	195	218	1
115°	1	1	60	121	142	1
125°	1	0	0	44	64	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°	886.7	886.7	886.7	886.7	886.7
2.5°	893.4	889.6	881.0	888.6	886.7
5°	889.1	888.6	883.9	895.3	895.3
7.5°	883.4	885.3	887.7	906.8	908.2
10°	875.8	881.5	893.4	922.6	928.8
12.5°	864.8	875.3	898.2	940.2	950.2
15°	852.4	869.1	907.3	961.2	976.5
17.5°	838.0	860.0	916.3	987.0	1009.9
20°	822.3	850.9	923.5	1010.4	1035.7
22.5°	804.1	839.9	931.1	1029.5	1058.2
25°	783.1	827.1	938.8	1046.2	1079.2
27.5°	762.1	813.7	943.1	1056.7	1088.7
30°	737.3	798.9	944.5	1058.2	1085.4
32.5°	712.9	782.6	940.2	1048.1	1069.6
35°	685.7	762.1	931.1	1026.2	1040.0
37.5°	657.5	740.1	915.4	992.3	1000.9
40°	629.8	719.6	891.0	949.3	953.1
42.5°	597.8	693.3	859.5	903.9	907.7
45°	566.3	667.1	822.3	857.6	861.0
47.5°	532.9	637.0	778.3	811.3	819.4
50°	498.5	604.1	733.5	768.3	776.9
52.5°	465.1	570.1	688.1	727.7	737.8
55°	428.8	532.9	643.2	687.1	701.5
57.5°	393.9	496.1	599.8	648.5	664.2
60°	357.7	458.4	561.6	612.6	627.0
62.5°	319.5	420.2	522.4	579.7	597.8
65°	279.8	383.0	487.1	546.8	564.4
67.5°	245.0	347.2	453.2	516.2	536.2
70°	207.2	312.8	423.6	489.0	509.0
72.5°	170.5	280.8	393.9	462.7	484.2
75°	135.1	249.3	367.2	436.9	459.8
77.5°	100.8	220.1	340.9	413.5	436.4
80°	70.7	193.4	316.6	391.1	415.4
82.5°	43.9	169.5	292.7	369.1	393.9
85°	21.5	145.6	270.3	347.2	372.0
87.5°	6.2	124.6	249.3	326.1	350.5
90°	0.5	107.0	229.2	307.0	331.4
92.5°	1.0	91.2	212.0	287.9	313.7
95°	1.4	77.4	192.9	269.3	293.2
97.5°	1.4	64.0	175.2	250.7	274.1
100°	1.4	51.1	158.1	231.1	255.0
102.5°	1.4	38.7	141.3	213.0	235.9
105°	1.4	25.3	125.6	195.3	218.2
107.5°	1.4	11.0	108.9	176.2	199.1
110°	1.4	2.4	92.6	158.5	181.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	77.4	139.9	162.4
115°	1.0	1.4	60.2	121.3	142.3
117.5°	1.0	1.0	41.1	103.1	124.6
120°	1.0	1.0	21.5	85.0	104.6
122.5°	1.0	0.5	4.3	64.9	86.4
125°	1.0	0.5	0.0	43.5	64.5
127.5°	1.0	0.5	0.0	22.4	43.9
130°	0.5	0.5	0.0	3.3	21.0
132.5°	0.5	0.5	0.0	0.0	1.0
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)