

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: P290040

Luminaire Tested: **8SSRK-RB-40-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290040  
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-40-L830-CD1-U  
Description: 4000 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: 3912.2 lumens  
Efficiency: N/A  
Efficacy: 144.8 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

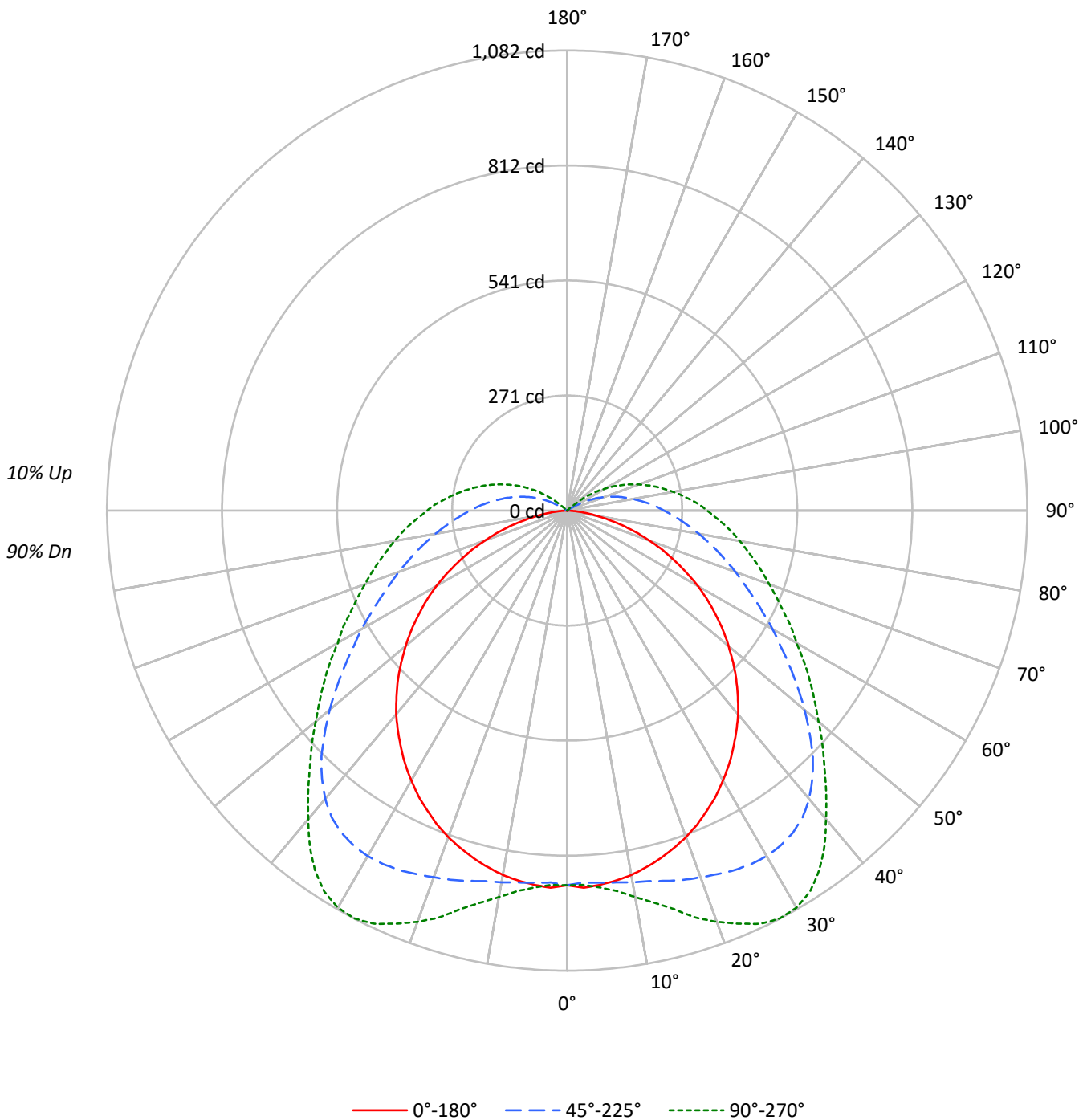
Input Watts (W): 27.0151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	28446	28446	28446
5°	28580	22794	21359
10°	28423	19386	17742
15°	28152	17102	15654
20°	27861	15495	14398
25°	27453	14288	13332
30°	26988	13245	12149
35°	26467	12193	10716
40°	25922	11021	9162
45°	25168	9707	7812
50°	24279	8342	6723
55°	23290	7109	5845
60°	22147	6082	5074
65°	20333	5210	4473
70°	18387	4509	3982
75°	15547	3920	3578
80°	11675	3415	3240
85°	6374	2970	2931



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.7	2.2
10°-20°	257.7	6.6
20°-30°	429.0	11.0
30°-40°	554.9	14.2
40°-50°	586.0	15.0
50°-60°	540.3	13.8
60°-70°	454.1	11.6
70°-80°	355.8	9.1
80°-90°	261.7	6.7
90°-100°	186.5	4.8
100°-110°	119.8	3.1
110°-120°	62.9	1.6
120°-130°	18.3	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°	771.5	19.7
0°-40°	1326.3	33.9
0°-60°	2452.7	62.7
0°-90°	3524.3	90.1
90°-120°	369.2	9.4
90°-150°	387.9	9.9
90°-180°	388.0	9.9
0°-180°	3912.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	883	883	878	890	890	84
15°	847	863	901	955	970	239
25°	778	822	933	1039	1072	359
35°	681	757	925	1020	1033	426
45°	563	663	817	852	855	434
55°	426	529	639	683	697	381
65°	278	380	484	543	561	277
75°	134	248	365	434	457	143
85°	21	145	268	345	370	28
90°	0	106	228	305	329	1
95°	1	77	192	268	291	1
105°	1	25	125	194	217	1
115°	1	1	60	120	141	1
125°	1	0	0	43	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°	880.9	880.9	880.9	880.9	880.9
2.5°	887.6	883.8	875.3	882.8	880.9
5°	883.3	882.8	878.1	889.5	889.5
7.5°	877.6	879.5	881.9	900.9	902.3
10°	870.0	875.7	887.6	916.5	922.7
12.5°	859.1	869.6	892.3	934.1	944.0
15°	846.8	863.4	901.3	955.0	970.1
17.5°	832.6	854.4	910.4	980.6	1003.3
20°	816.9	845.4	917.5	1003.8	1029.0
22.5°	798.9	834.5	925.1	1022.8	1051.3
25°	778.0	821.6	932.7	1039.4	1072.1
27.5°	757.1	808.4	936.9	1049.8	1081.6
30°	732.5	793.7	938.3	1051.3	1078.3
32.5°	708.3	777.5	934.1	1041.3	1062.6
35°	681.2	757.1	925.1	1019.5	1033.2
37.5°	653.2	735.3	909.4	985.8	994.3
40°	625.7	714.9	885.2	943.1	946.9
42.5°	593.9	688.8	853.9	898.0	901.8
45°	562.6	662.7	816.9	852.0	855.3
47.5°	529.4	632.8	773.3	806.0	814.1
50°	495.3	600.1	728.7	763.3	771.8
52.5°	462.1	566.4	683.6	723.0	732.9
55°	426.0	529.4	639.0	682.6	696.9
57.5°	391.4	492.9	595.8	644.2	659.9
60°	355.3	455.4	557.9	608.6	622.9
62.5°	317.4	417.5	519.0	575.9	593.9
65°	278.0	380.5	483.9	543.2	560.7
67.5°	243.4	344.9	450.2	512.8	532.7
70°	205.9	310.7	420.8	485.8	505.7
72.5°	169.4	278.9	391.4	459.7	481.0
75°	134.3	247.6	364.8	434.1	456.8
77.5°	100.1	218.7	338.7	410.8	433.6
80°	70.2	192.1	314.5	388.5	412.7
82.5°	43.6	168.4	290.8	366.7	391.4
85°	21.3	144.7	268.5	344.9	369.6
87.5°	6.2	123.8	247.6	324.0	348.2
90°	0.5	106.3	227.7	305.0	329.2
92.5°	0.9	90.6	210.6	286.1	311.7
95°	1.4	76.9	191.7	267.6	291.3
97.5°	1.4	63.6	174.1	249.1	272.3
100°	1.4	50.8	157.0	229.6	253.3
102.5°	1.4	38.4	140.4	211.6	234.3
105°	1.4	25.1	124.8	194.0	216.8
107.5°	1.4	10.9	108.2	175.1	197.8
110°	1.4	2.4	92.0	157.5	179.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	76.9	139.0	161.3
115°	0.9	1.4	59.8	120.5	141.4
117.5°	0.9	0.9	40.8	102.5	123.8
120°	0.9	0.9	21.3	84.4	103.9
122.5°	0.9	0.5	4.3	64.5	85.9
125°	0.9	0.5	0.0	43.2	64.0
127.5°	0.9	0.5	0.0	22.3	43.6
130°	0.5	0.5	0.0	3.3	20.9
132.5°	0.5	0.5	0.0	0.0	0.9
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)