

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: P290043

Luminaire Tested: **8SSRK-RB-40-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290043  
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-L850-CD1-U  
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

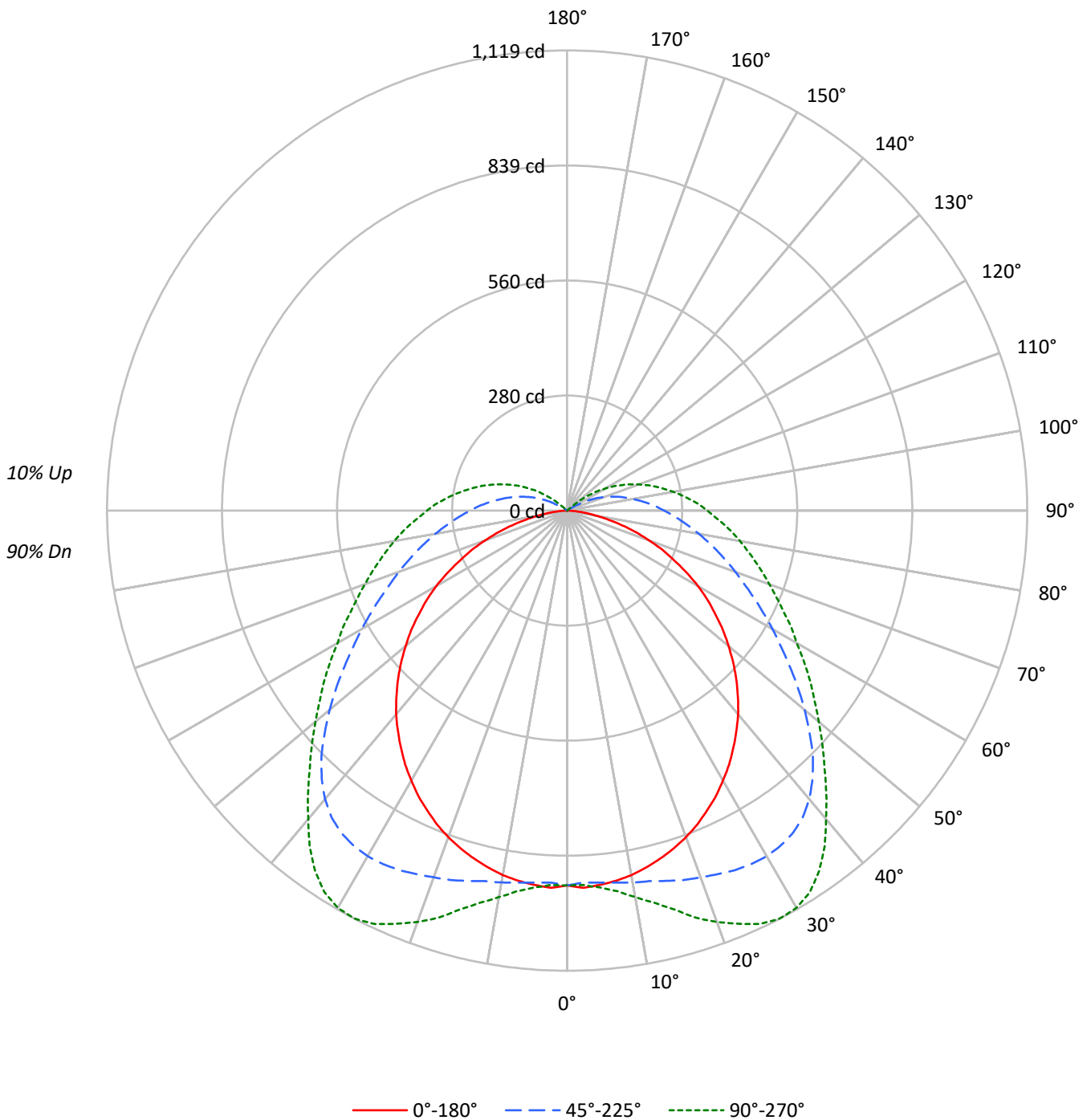
Lumens per Lamp: N/A  
Luminaire Lumens: 4047.2 lumens  
Efficiency: N/A  
Efficacy: 149.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.65 / 1.6  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 27.0151  
Input Voltage (V): NR  
Input 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°	29427	29427	29427
5°	29567	23580	22096
10°	29406	20054	18353
15°	29123	17692	16194
20°	28822	16028	14895
25°	28399	14780	13792
30°	27917	13702	12568
35°	27380	12614	11086
40°	26817	11402	9479
45°	26036	10042	8081
50°	25118	8629	6956
55°	24094	7355	6046
60°	22914	6291	5249
65°	21035	5389	4628
70°	19021	4664	4119
75°	16080	4055	3702
80°	12074	3534	3353
85°	6613	3073	3032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.6	2.2
10°-20°	266.6	6.6
20°-30°	443.8	11.0
30°-40°	574.0	14.2
40°-50°	606.3	15.0
50°-60°	559.0	13.8
60°-70°	469.7	11.6
70°-80°	368.0	9.1
80°-90°	270.8	6.7
90°-100°	192.9	4.8
100°-110°	124.0	3.1
110°-120°	65.1	1.6
120°-130°	18.9	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°	798.1	19.7
0°-40°	1372.1	33.9
0°-60°	2537.3	62.7
0°-90°	3645.9	90.1
90°-120°	382.0	9.4
90°-150°	401.3	9.9
90°-180°	401.0	9.9
0°-180°	4047.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	911	911	911	911	911	
5°	914	913	908	920	920	87
15°	876	893	932	988	1004	247
25°	805	850	965	1075	1109	371
35°	705	783	957	1055	1069	441
45°	582	686	845	881	885	449
55°	441	548	661	706	721	394
65°	288	394	501	562	580	286
75°	139	256	377	449	473	148
85°	22	150	278	357	382	29
90°	0	110	236	316	341	1
95°	2	80	198	277	301	1
105°	2	26	129	201	224	2
115°	1	2	62	125	146	1
125°	1	0	0	45	66	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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CATALOG NUMBER: 8SSRK-RB-40-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	911.3	911.3	911.3	911.3	911.3
2.5°	918.2	914.3	905.4	913.3	911.3
5°	913.8	913.3	908.4	920.2	920.2
7.5°	907.9	909.9	912.3	931.9	933.4
10°	900.1	905.9	918.2	948.1	954.5
12.5°	888.8	899.6	923.1	966.3	976.6
15°	876.0	893.2	932.4	987.9	1003.6
17.5°	861.3	883.9	941.8	1014.4	1038.0
20°	845.1	874.5	949.1	1038.4	1064.5
22.5°	826.4	863.2	957.0	1058.1	1087.5
25°	804.8	850.0	964.8	1075.3	1109.1
27.5°	783.2	836.3	969.2	1086.0	1118.9
30°	757.7	821.0	970.7	1087.5	1115.5
32.5°	732.7	804.4	966.3	1077.2	1099.3
35°	704.7	783.2	957.0	1054.6	1068.9
37.5°	675.8	760.7	940.8	1019.8	1028.6
40°	647.3	739.6	915.8	975.6	979.6
42.5°	614.4	712.6	883.4	929.0	932.9
45°	582.0	685.6	845.1	881.4	884.8
47.5°	547.7	654.7	799.9	833.8	842.1
50°	512.4	620.8	753.8	789.6	798.5
52.5°	478.0	586.0	707.2	747.9	758.2
55°	440.7	547.7	661.1	706.2	720.9
57.5°	404.9	509.9	616.4	666.4	682.6
60°	367.6	471.1	577.1	629.6	644.4
62.5°	328.3	431.9	536.9	595.8	614.4
65°	287.6	393.6	500.6	561.9	580.1
67.5°	251.8	356.8	465.7	530.5	551.1
70°	213.0	321.4	435.3	502.5	523.1
72.5°	175.2	288.6	404.9	475.5	497.6
75°	138.9	256.2	377.4	449.0	472.6
77.5°	103.5	226.2	350.4	425.0	448.6
80°	72.6	198.8	325.4	401.9	427.0
82.5°	45.1	174.2	300.8	379.4	404.9
85°	22.1	149.7	277.8	356.8	382.3
87.5°	6.4	128.1	256.2	335.2	360.2
90°	0.5	109.9	235.6	315.6	340.6
92.5°	1.0	93.7	217.9	295.9	322.4
95°	1.5	79.5	198.3	276.8	301.3
97.5°	1.5	65.8	180.1	257.6	281.7
100°	1.5	52.5	162.4	237.5	262.1
102.5°	1.5	39.8	145.3	218.9	242.4
105°	1.5	26.0	129.1	200.7	224.3
107.5°	1.5	11.3	111.9	181.1	204.6
110°	1.5	2.5	95.2	162.9	186.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	79.5	143.8	166.9
115°	1.0	1.5	61.8	124.7	146.2
117.5°	1.0	1.0	42.2	106.0	128.1
120°	1.0	1.0	22.1	87.4	107.5
122.5°	1.0	0.5	4.4	66.7	88.8
125°	1.0	0.5	0.0	44.7	66.3
127.5°	1.0	0.5	0.0	23.1	45.1
130°	0.5	0.5	0.0	3.4	21.6
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)