

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: P290039

Luminaire Tested: **8SSRK-RB-40-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290039  
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-L950-CD1-U  
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 90 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

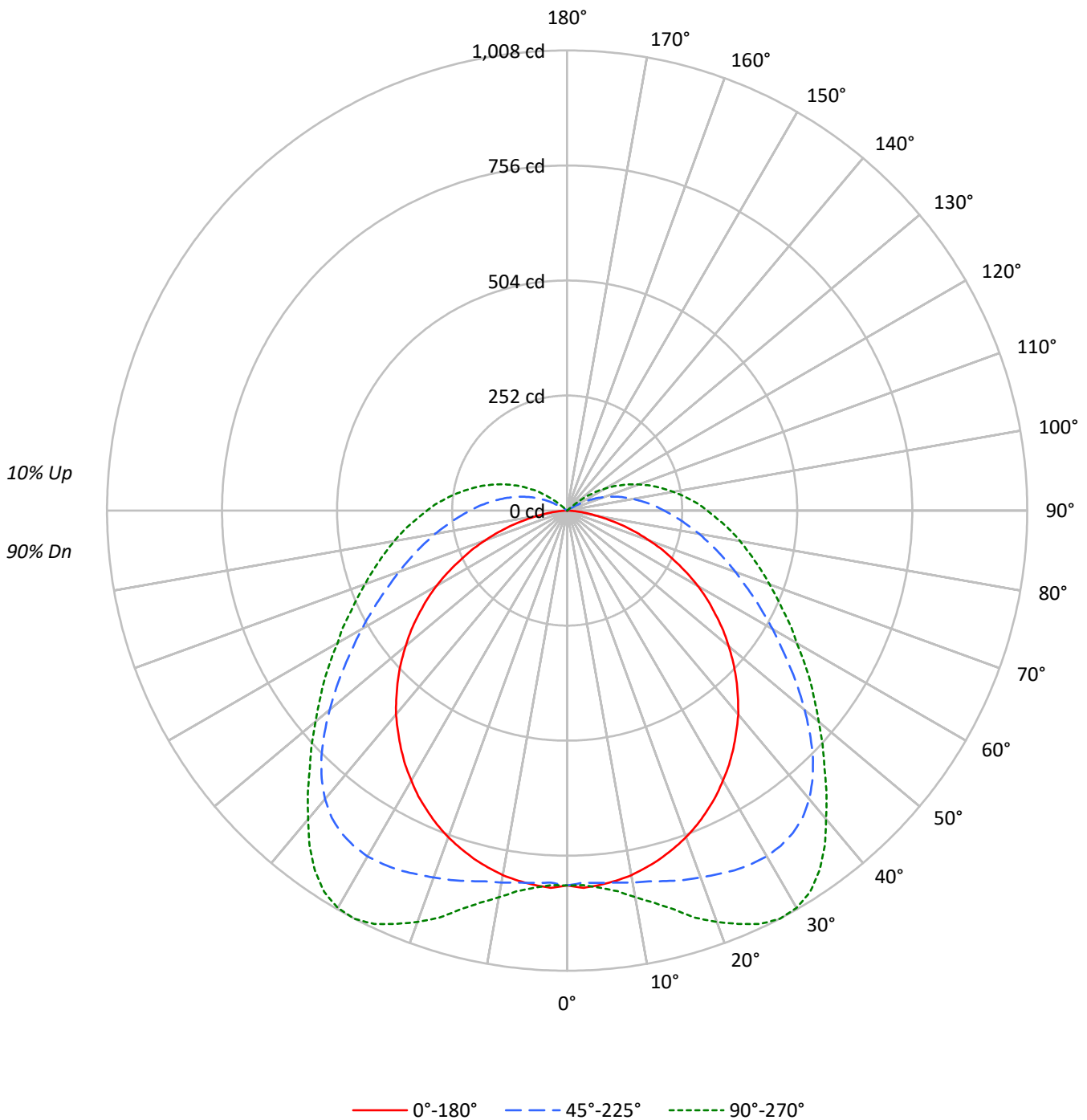
Lumens per Lamp: N/A  
Luminaire Lumens: 3646.5 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.65 / 1.6  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 27.0151  
Input Voltage (V): NR  
Input 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	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°	26515	26515	26515
5°	26639	21247	19908
10°	26492	18069	16536
15°	26240	15941	14590
20°	25968	14443	13420
25°	25590	13317	12427
30°	25153	12346	11325
35°	24672	11364	9989
40°	24162	10273	8540
45°	23459	9048	7281
50°	22627	7775	6267
55°	21710	6626	5448
60°	20645	5669	4730
65°	18951	4855	4169
70°	17137	4202	3712
75°	14482	3654	3335
80°	10877	3184	3020
85°	5955	2768	2732



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.0	2.2
10°-20°	240.2	6.6
20°-30°	399.9	11.0
30°-40°	517.2	14.2
40°-50°	546.2	15.0
50°-60°	503.7	13.8
60°-70°	423.2	11.6
70°-80°	331.6	9.1
80°-90°	244.0	6.7
90°-100°	173.8	4.8
100°-110°	111.7	3.1
110°-120°	58.6	1.6
120°-130°	17.0	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°	719.1	19.7
0°-40°	1236.2	33.9
0°-60°	2286.1	62.7
0°-90°	3284.9	90.1
90°-120°	344.1	9.4
90°-150°	361.5	9.9
90°-180°	362.0	9.9
0°-180°	3646.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	823	823	818	829	829	78
15°	789	805	840	890	904	223
25°	725	766	869	969	999	334
35°	635	706	862	950	963	397
45°	524	618	761	794	797	404
55°	397	494	596	636	650	355
65°	259	355	451	506	523	258
75°	125	231	340	405	426	133
85°	20	135	250	322	344	26
90°	0	99	212	284	307	1
95°	1	72	179	249	272	1
105°	1	23	116	181	202	1
115°	1	1	56	112	132	1
125°	1	0	0	40	60	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°	821.1	821.1	821.1	821.1	821.1
2.5°	827.3	823.8	815.8	822.9	821.1
5°	823.3	822.9	818.5	829.1	829.1
7.5°	818.0	819.8	822.0	839.7	841.0
10°	810.9	816.3	827.3	854.3	860.0
12.5°	800.8	810.5	831.7	870.6	879.9
15°	789.3	804.8	840.1	890.1	904.2
17.5°	776.0	796.4	848.5	914.0	935.2
20°	761.4	788.0	855.2	935.6	959.1
22.5°	744.6	777.8	862.2	953.3	979.9
25°	725.2	765.8	869.3	968.8	999.3
27.5°	705.7	753.5	873.3	978.5	1008.2
30°	682.7	739.8	874.6	979.9	1005.1
32.5°	660.2	724.7	870.6	970.6	990.5
35°	635.0	705.7	862.2	950.2	963.1
37.5°	608.9	685.4	847.6	918.8	926.8
40°	583.2	666.4	825.1	879.0	882.6
42.5°	553.6	642.0	795.9	837.0	840.6
45°	524.4	617.7	761.4	794.1	797.2
47.5°	493.5	589.9	720.7	751.3	758.8
50°	461.6	559.3	679.2	711.5	719.4
52.5°	430.7	528.0	637.2	673.9	683.2
55°	397.1	493.5	595.6	636.3	649.6
57.5°	364.8	459.4	555.4	600.5	615.1
60°	331.2	424.5	520.0	567.3	580.6
62.5°	295.8	389.1	483.7	536.8	553.6
65°	259.1	354.6	451.0	506.3	522.6
67.5°	226.8	321.5	419.6	478.0	496.6
70°	191.9	289.6	392.2	452.8	471.4
72.5°	157.9	260.0	364.8	428.5	448.4
75°	125.1	230.8	340.0	404.6	425.8
77.5°	93.3	203.8	315.7	382.9	404.1
80°	65.4	179.1	293.2	362.1	384.7
82.5°	40.7	157.0	271.1	341.8	364.8
85°	19.9	134.9	250.3	321.5	344.5
87.5°	5.7	115.4	230.8	302.0	324.6
90°	0.4	99.0	212.2	284.3	306.9
92.5°	0.9	84.5	196.3	266.6	290.5
95°	1.3	71.6	178.6	249.4	271.5
97.5°	1.3	59.3	162.3	232.1	253.8
100°	1.3	47.3	146.4	214.0	236.1
102.5°	1.3	35.8	130.9	197.2	218.4
105°	1.3	23.4	116.3	180.8	202.1
107.5°	1.3	10.2	100.8	163.2	184.4
110°	1.3	2.2	85.8	146.8	167.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	71.6	129.6	150.3
115°	0.9	1.3	55.7	112.3	131.8
117.5°	0.9	0.9	38.0	95.5	115.4
120°	0.9	0.9	19.9	78.7	96.8
122.5°	0.9	0.4	4.0	60.1	80.0
125°	0.9	0.4	0.0	40.2	59.7
127.5°	0.9	0.4	0.0	20.8	40.7
130°	0.4	0.4	0.0	3.1	19.5
132.5°	0.4	0.4	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)