

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: P290351

Luminaire Tested: **4SSRK-SLN-20-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290351  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-SLN-20-L950-CD1-U  
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

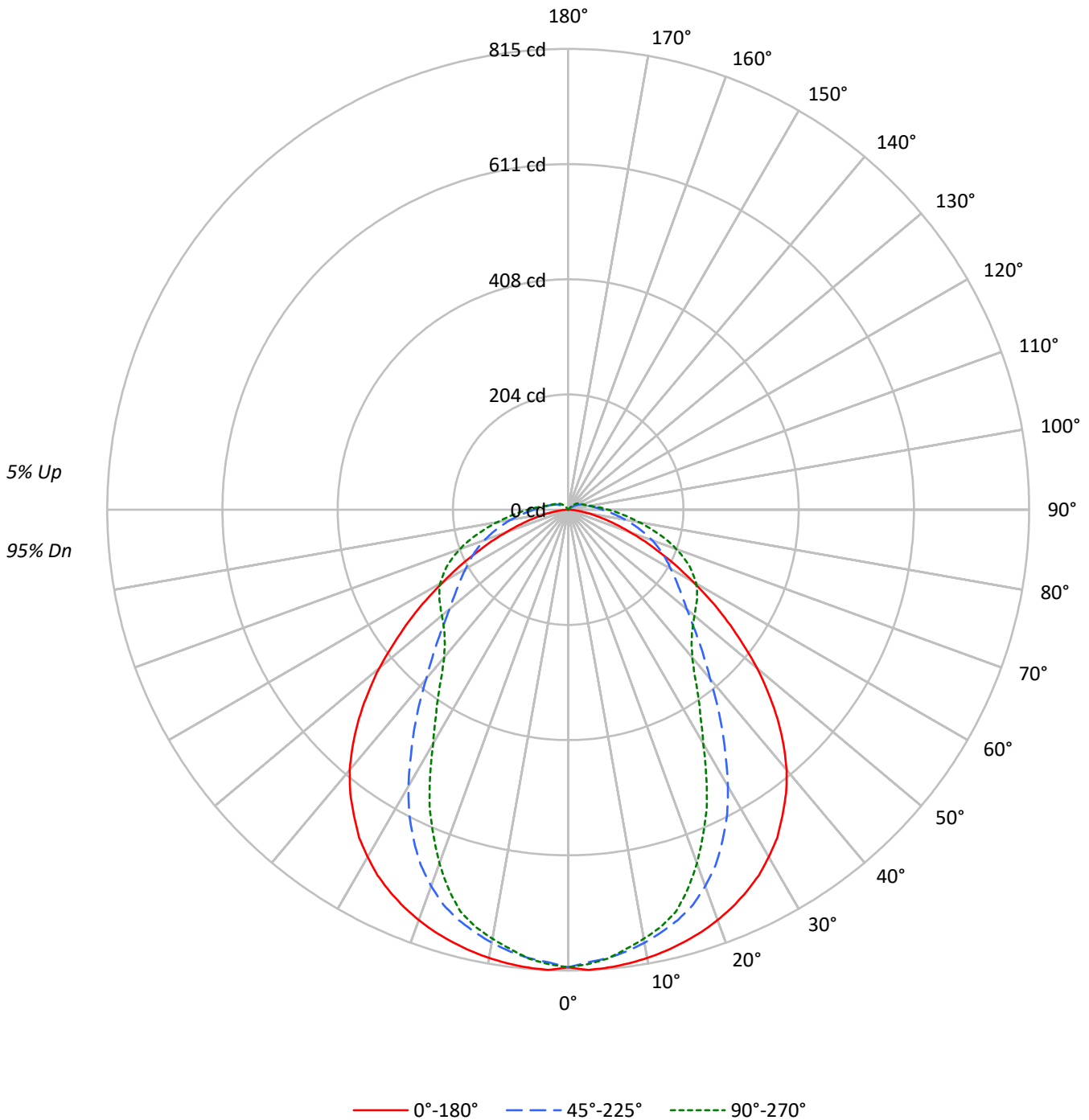
Lumens per Lamp: N/A  
Luminaire Lumens: 1916.0 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 13.7  
Input Voltage (V): NR  
Input 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	50	30	10	50	30	10	0																			
RCR																																														
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95																												
1	107	102	98	94	104	100	96	92	94	91	88	90	87	85	85	83	81	79																												
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	75	72	69	66																												
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56																												
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49																												
5	76	64	55	48	74	62	54	48	60	52	47	57	51	46	55	49	45	43																												
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	45	40	38																												
7	66	53	44	38	64	52	44	38	50	42	37	48	41	37	46	40	36	34																												
8	61	48	40	34	60	47	40	34	46	39	34	44	38	33	43	37	33	31																												
9	57	44	37	31	56	44	36	31	42	35	31	41	35	30	40	34	30	28																												
10	54	41	34	28	53	41	33	28	39	33	28	38	32	28	37	31	27	26																												

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	52267	52267	52267
5°	52502	41293	38270
10°	52413	33916	29630
15°	52343	28429	23752
20°	52286	23861	18627
25°	52111	19731	14417
30°	51631	15897	10760
35°	50583	12468	8297
40°	48957	9693	6601
45°	45901	7699	5648
50°	41782	6239	5079
55°	36484	5278	4663
60°	30672	4546	4259
65°	24998	3949	3775
70°	19807	3362	3203
75°	14965	2774	2586
80°	10469	2224	1999
85°	6124	1739	1519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.0	4.0
10°-20°	213.0	11.1
20°-30°	299.6	15.6
30°-40°	313.7	16.4
40°-50°	284.0	14.8
50°-60°	241.7	12.6
60°-70°	191.1	10.0
70°-80°	130.1	6.8
80°-90°	74.3	3.9
90°-100°	41.2	2.1
100°-110°	25.2	1.3
110°-120°	15.3	0.8
120°-130°	8.3	0.4
130°-140°	2.5	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	588.6	30.7
0°-40°	902.3	47.1
0°-60°	1428.0	74.5
0°-90°	1823.5	95.2
90°-120°	81.6	4.3
90°-150°	92.5	4.8
90°-180°	92.0	4.8
0°-180°	1916.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	809	809	809	809	809	
5°	813	808	796	800	797	77
15°	792	776	751	743	736	224
25°	746	709	646	596	580	343
35°	660	586	475	415	400	413
45°	524	416	325	308	309	402
55°	343	262	238	266	278	307
65°	178	155	184	225	237	179
75°	69	84	130	159	165	76
85°	12	40	79	94	96	15
90°	0	28	60	70	70	1
95°	0	22	48	53	52	0
105°	0	13	32	33	32	0
115°	0	2	22	25	24	0
125°	0	0	10	17	18	0
135°	0	0	0	7	9	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°	809.3	809.3	809.3	809.3	809.3
2.5°	814.8	810.4	801.1	807.1	804.4
5°	812.8	807.7	796.2	799.8	796.9
7.5°	809.7	802.9	788.0	789.1	783.6
10°	805.1	796.2	777.8	775.9	770.5
12.5°	799.1	786.9	764.8	762.1	755.9
15°	791.6	776.5	750.8	743.1	736.0
17.5°	783.2	764.1	732.9	715.6	703.5
20°	772.3	748.2	708.3	683.3	665.6
22.5°	760.1	730.9	680.7	643.0	622.9
25°	745.5	708.6	645.9	595.9	579.7
27.5°	729.4	685.3	608.1	549.6	528.2
30°	709.0	655.9	564.9	502.3	477.5
32.5°	687.8	624.2	518.0	454.9	435.6
35°	660.3	585.9	474.6	415.3	400.0
37.5°	632.6	545.0	431.4	379.8	366.3
40°	601.0	503.6	390.7	350.6	341.1
42.5°	563.4	461.5	356.2	326.1	322.7
45°	523.5	415.7	325.2	308.1	309.2
47.5°	480.1	374.1	297.1	293.7	299.3
50°	436.5	335.4	273.6	282.9	291.5
52.5°	388.0	297.9	255.0	274.0	284.4
55°	343.3	262.1	238.2	265.6	278.0
57.5°	298.8	231.5	223.6	257.0	270.1
60°	254.6	203.6	209.4	247.7	261.4
62.5°	216.0	177.1	197.0	237.3	249.2
65°	178.2	154.7	184.2	224.9	236.6
67.5°	146.8	134.8	171.3	210.1	220.7
70°	116.9	116.0	157.6	193.7	203.4
72.5°	91.2	98.9	143.2	176.6	185.9
75°	69.3	84.3	129.7	159.4	165.1
77.5°	50.7	70.6	116.0	141.9	145.9
80°	34.8	58.7	102.9	124.4	127.3
82.5°	21.9	48.5	90.3	108.7	110.7
85°	12.2	40.1	79.0	94.5	95.8
87.5°	4.6	33.0	68.8	82.1	83.2
90°	0.2	27.9	60.4	70.4	70.4
92.5°	0.2	24.3	53.6	61.1	61.5
95°	0.4	21.5	47.6	52.7	52.2
97.5°	0.4	19.5	42.1	46.3	44.9
100°	0.4	17.7	37.9	40.7	39.4
102.5°	0.4	15.7	34.5	36.3	34.8
105°	0.4	13.1	31.9	33.2	31.9
107.5°	0.4	10.4	29.0	30.8	29.4
110°	0.4	7.7	26.3	28.6	27.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.2	4.9	23.9	26.6	25.9
115°	0.4	1.8	21.5	25.0	24.3
117.5°	0.2	0.9	18.4	23.2	23.0
120°	0.2	0.7	15.5	21.7	21.7
122.5°	0.2	0.7	12.8	19.5	20.4
125°	0.2	0.4	9.7	17.3	18.4
127.5°	0.2	0.4	6.9	15.1	16.4
130°	0.2	0.4	3.5	12.4	14.2
132.5°	0.2	0.4	0.4	9.7	11.7
135°	0.4	0.4	0.4	7.1	9.3
137.5°	0.4	0.4	0.4	3.8	6.6
140°	0.4	0.4	0.2	0.2	3.1
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)