

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: P290381

Luminaire Tested: **4SSRK-SLN-80-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290381  
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-80-L935-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7149.6 lumens  
Efficiency: N/A  
Efficacy: 113.7 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

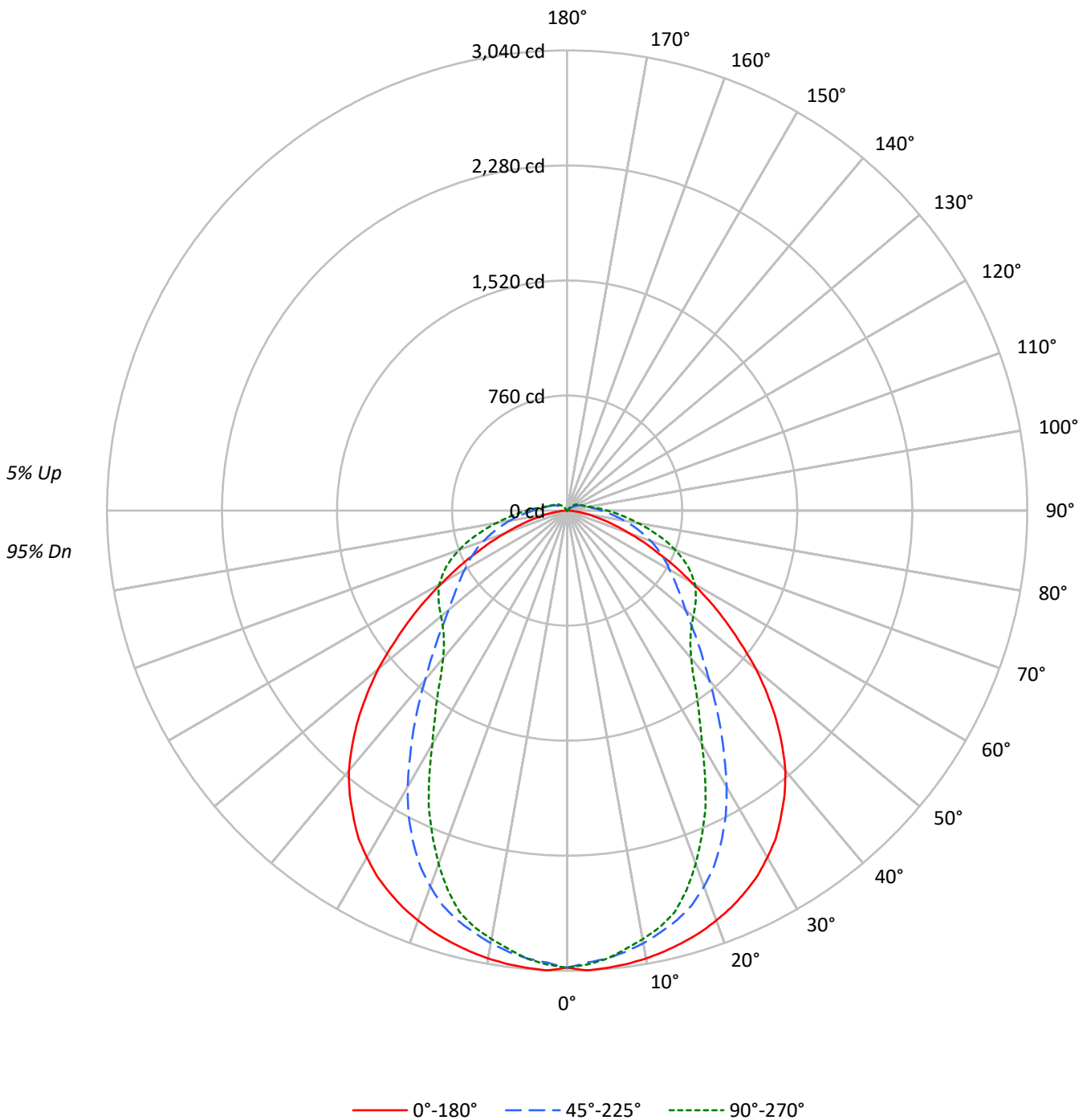
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P290381

CATALOG NUMBER: 4SSRK-SLN-80-L935-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P290381

CATALOG NUMBER: 4SSRK-SLN-80-L935-CD1-U

**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	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°	195028	195028	195028
5°	195914	154088	142803
10°	195570	126565	110573
15°	195307	106091	88632
20°	195108	89042	69509
25°	194458	73629	53802
30°	192658	59319	40149
35°	188750	46523	30961
40°	182680	36171	24634
45°	171284	28727	21078
50°	155919	23281	18952
55°	136146	19694	17401
60°	114436	16963	15893
65°	93273	14731	14088
70°	73889	12545	11955
75°	55823	10353	9653
80°	39018	8302	7457
85°	22789	6491	5673



TEST NUMBER: P290381

CATALOG NUMBER: 4SSRK-SLN-80-L935-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.6	4.0
10°-20°	794.9	11.1
20°-30°	1117.8	15.6
30°-40°	1170.5	16.4
40°-50°	1059.8	14.8
50°-60°	902.0	12.6
60°-70°	713.2	10.0
70°-80°	485.6	6.8
80°-90°	277.1	3.9
90°-100°	153.7	2.1
100°-110°	93.9	1.3
110°-120°	57.1	0.8
120°-130°	30.9	0.4
130°-140°	9.4	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2196.2	30.7
0°-40°	3366.8	47.1
0°-60°	5328.5	74.5
0°-90°	6804.4	95.2
90°-120°	304.7	4.3
90°-150°	345.2	4.8
90°-180°	345.0	4.8
0°-180°	7149.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3020	3020	3020	3020	3020	
5°	3033	3014	2971	2984	2974	289
15°	2954	2898	2802	2773	2746	835
25°	2782	2644	2410	2224	2163	1282
35°	2464	2186	1771	1550	1493	1540
45°	1954	1551	1213	1150	1154	1500
55°	1281	978	889	991	1037	1146
65°	665	577	687	839	883	670
75°	258	315	484	595	616	282
85°	45	150	295	353	358	55
90°	1	104	226	263	263	3
95°	2	80	178	197	195	1
105°	2	49	119	124	119	2
115°	2	7	80	93	91	1
125°	1	2	36	64	69	1
135°	2	2	2	26	35	1
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



TEST NUMBER: P290381

CATALOG NUMBER: 4SSRK-SLN-80-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3019.8	3019.8	3019.8	3019.8	3019.8
2.5°	3040.5	3024.0	2989.3	3011.6	3001.7
5°	3033.0	3014.0	2971.1	2984.3	2973.6
7.5°	3021.5	2995.9	2940.5	2944.7	2924.0
10°	3004.1	2971.1	2902.5	2895.1	2875.3
12.5°	2981.8	2936.4	2853.8	2843.9	2820.8
15°	2953.7	2897.6	2801.8	2772.9	2746.4
17.5°	2922.4	2851.3	2734.9	2670.4	2625.0
20°	2881.9	2791.8	2643.2	2549.8	2483.8
22.5°	2836.5	2727.4	2539.9	2399.5	2324.3
25°	2781.9	2644.0	2410.2	2223.6	2163.3
27.5°	2721.6	2557.3	2269.0	2050.9	1970.8
30°	2645.6	2447.4	2107.9	1874.2	1781.7
32.5°	2566.4	2329.3	1932.8	1697.4	1625.6
35°	2463.9	2186.4	1770.9	1549.6	1492.6
37.5°	2360.7	2033.6	1609.9	1417.4	1367.0
40°	2242.6	1879.1	1457.9	1308.4	1272.9
42.5°	2102.1	1722.2	1329.0	1216.7	1204.3
45°	1953.5	1551.2	1213.4	1149.8	1153.9
47.5°	1791.6	1395.9	1108.5	1096.1	1116.7
50°	1628.9	1251.4	1020.9	1055.6	1087.8
52.5°	1448.0	1111.8	951.5	1022.6	1061.4
55°	1281.1	978.0	888.8	991.2	1037.4
57.5°	1115.1	864.0	834.3	959.0	1007.7
60°	949.9	759.9	781.4	924.3	975.5
62.5°	806.2	660.8	735.1	885.5	930.1
65°	664.9	577.4	687.2	839.2	883.0
67.5°	547.6	503.0	639.3	783.9	823.5
70°	436.1	432.8	588.1	722.7	759.1
72.5°	340.3	369.2	534.4	659.1	693.8
75°	258.5	314.7	484.0	594.7	616.2
77.5°	189.2	263.5	432.8	529.5	544.3
80°	129.7	218.9	384.1	464.2	474.9
82.5°	81.8	180.9	337.0	405.6	413.0
85°	45.4	149.5	294.9	352.7	357.7
87.5°	17.3	123.1	256.9	306.4	310.6
90°	0.8	104.1	225.5	262.7	262.7
92.5°	0.8	90.9	199.9	228.0	229.6
95°	1.7	80.1	177.6	196.6	194.9
97.5°	1.7	72.7	156.9	172.6	167.7
100°	1.7	66.1	141.2	152.0	147.0
102.5°	1.7	58.6	128.9	135.5	129.7
105°	1.7	48.7	118.9	123.9	118.9
107.5°	1.7	38.8	108.2	114.8	109.9
110°	1.7	28.9	98.3	106.6	102.4



TEST NUMBER: P290381

CATALOG NUMBER: 4SSRK-SLN-80-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	18.2	89.2	99.1	96.6
115°	1.7	6.6	80.1	93.3	90.9
117.5°	0.8	3.3	68.6	86.7	85.9
120°	0.8	2.5	57.8	80.9	80.9
122.5°	0.8	2.5	47.9	72.7	76.0
125°	0.8	1.7	36.3	64.4	68.6
127.5°	0.8	1.7	25.6	56.2	61.1
130°	0.8	1.7	13.2	46.3	52.9
132.5°	0.8	1.7	1.7	36.3	43.8
135°	1.7	1.7	1.7	26.4	34.7
137.5°	1.7	1.7	1.7	14.0	24.8
140°	1.7	1.7	0.8	0.8	11.6
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)