

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: P290385

Luminaire Tested: **4SSRK-SLN-80-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290385  
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-L835-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8511.4 lumens  
Efficiency: N/A  
Efficacy: 135.3 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

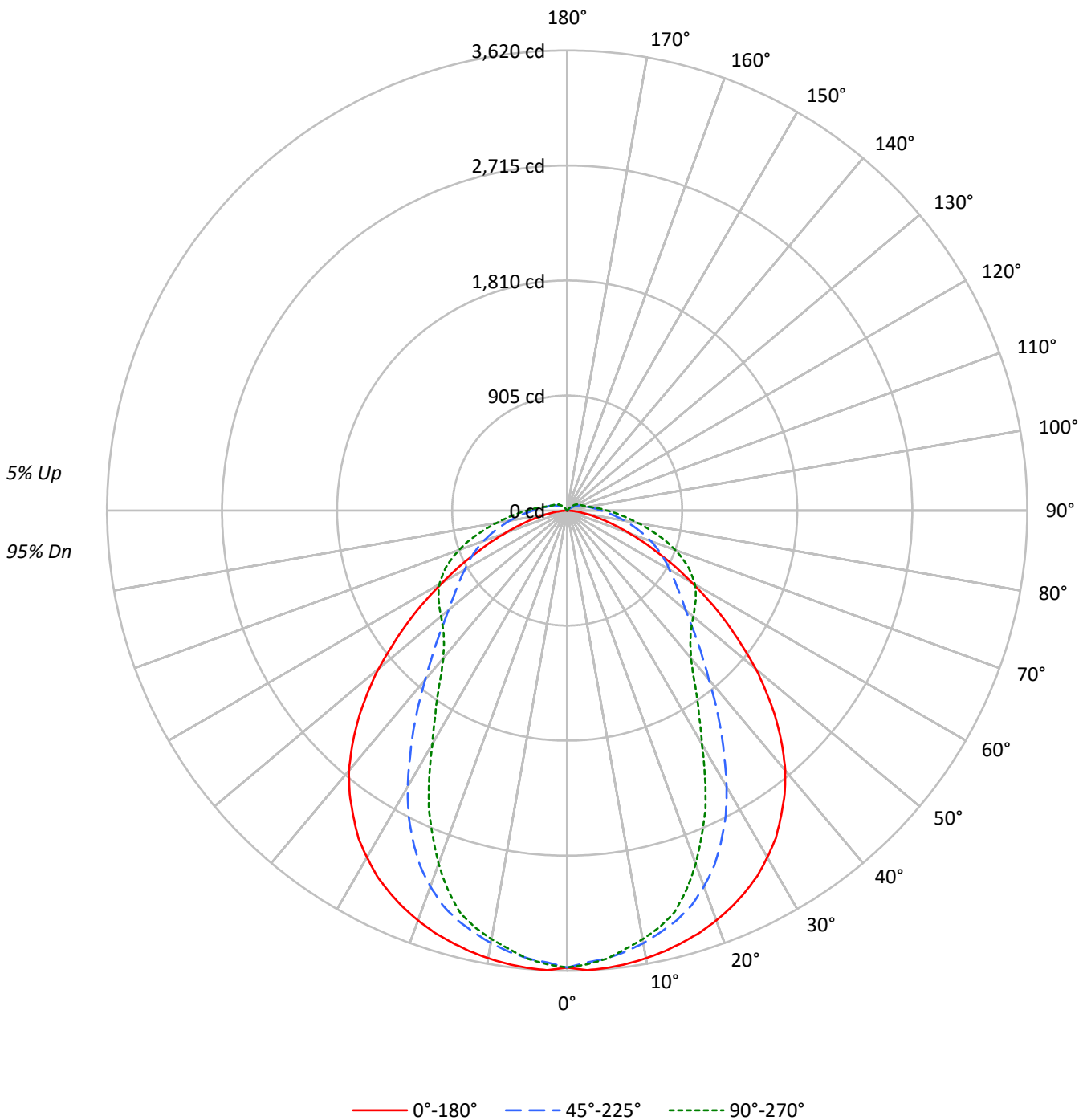
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P290385

CATALOG NUMBER: 4SSRK-SLN-80-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P290385

CATALOG NUMBER: 4SSRK-SLN-80-L835-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°	232176	232176	232176
5°	233237	183437	170004
10°	232821	150675	131631
15°	232515	126296	105514
20°	232269	106000	82749
25°	231499	87653	64049
30°	229361	70618	47795
35°	224709	55384	36859
40°	217471	43061	29325
45°	203910	34198	25093
50°	185611	27716	22562
55°	162077	23446	20718
60°	136229	20193	18920
65°	111047	17537	16772
70°	87969	14934	14232
75°	66469	12325	11493
80°	46448	9882	8878
85°	27156	7726	6753



TEST NUMBER: P290385

CATALOG NUMBER: 4SSRK-SLN-80-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.6	4.0
10°-20°	946.3	11.1
20°-30°	1330.7	15.6
30°-40°	1393.5	16.4
40°-50°	1261.6	14.8
50°-60°	1073.8	12.6
60°-70°	849.1	10.0
70°-80°	578.1	6.8
80°-90°	329.9	3.9
90°-100°	183.0	2.1
100°-110°	111.8	1.3
110°-120°	68.0	0.8
120°-130°	36.8	0.4
130°-140°	11.2	0.1
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2614.6	30.7
0°-40°	4008.1	47.1
0°-60°	6343.5	74.5
0°-90°	8100.5	95.2
90°-120°	362.7	4.3
90°-150°	410.9	4.8
90°-180°	411.0	4.8
0°-180°	8511.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3595	3595	3595	3595	3595	
5°	3611	3588	3537	3553	3540	344
15°	3516	3450	3335	3301	3270	994
25°	3312	3148	2869	2647	2575	1526
35°	2933	2603	2108	1845	1777	1833
45°	2326	1847	1444	1369	1374	1786
55°	1525	1164	1058	1180	1235	1364
65°	792	687	818	999	1051	797
75°	308	375	576	708	734	336
85°	54	178	351	420	426	65
90°	1	124	268	313	313	3
95°	2	95	211	234	232	1
105°	2	58	142	148	142	2
115°	2	8	95	111	108	1
125°	1	2	43	77	82	1
135°	2	2	2	32	41	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: P290385

CATALOG NUMBER: 4SSRK-SLN-80-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3595.0	3595.0	3595.0	3595.0	3595.0
2.5°	3619.6	3599.9	3558.6	3585.2	3573.4
5°	3610.8	3588.1	3537.0	3552.7	3540.0
7.5°	3597.0	3566.5	3500.6	3505.5	3481.0
10°	3576.3	3537.0	3455.4	3446.5	3422.9
12.5°	3549.8	3495.7	3397.4	3385.6	3358.0
15°	3516.4	3449.5	3335.4	3301.0	3269.5
17.5°	3479.0	3394.4	3255.8	3179.1	3125.0
20°	3430.8	3323.6	3146.6	3035.5	2956.9
22.5°	3376.7	3246.9	3023.7	2856.6	2767.1
25°	3311.8	3147.6	2869.3	2647.1	2575.3
27.5°	3240.0	3044.4	2701.2	2441.6	2346.2
30°	3149.6	2913.6	2509.4	2231.2	2121.0
32.5°	3055.2	2773.0	2301.0	2020.7	1935.2
35°	2933.3	2602.9	2108.2	1844.7	1776.9
37.5°	2810.3	2420.9	1916.5	1687.4	1627.4
40°	2669.7	2237.1	1735.6	1557.6	1515.3
42.5°	2502.6	2050.2	1582.2	1448.4	1433.7
45°	2325.6	1846.7	1444.5	1368.8	1373.7
47.5°	2132.8	1661.8	1319.6	1304.9	1329.5
50°	1939.1	1489.7	1215.4	1256.7	1295.0
52.5°	1723.8	1323.6	1132.8	1217.4	1263.6
55°	1525.1	1164.3	1058.1	1180.0	1235.1
57.5°	1327.5	1028.6	993.2	1141.6	1199.7
60°	1130.8	904.7	930.2	1100.3	1161.3
62.5°	959.7	786.7	875.2	1054.1	1107.2
65°	791.6	687.3	818.1	999.1	1051.2
67.5°	651.9	598.8	761.1	933.2	980.4
70°	519.2	515.3	700.1	860.4	903.7
72.5°	405.1	439.5	636.2	784.7	826.0
75°	307.8	374.6	576.2	708.0	733.6
77.5°	225.2	313.7	515.3	630.3	648.0
80°	154.4	260.6	457.2	552.6	565.4
82.5°	97.3	215.3	401.2	482.8	491.7
85°	54.1	178.0	351.0	419.9	425.8
87.5°	20.6	146.5	305.8	364.8	369.7
90°	1.0	123.9	268.4	312.7	312.7
92.5°	1.0	108.2	238.0	271.4	273.4
95°	2.0	95.4	211.4	234.0	232.1
97.5°	2.0	86.5	186.8	205.5	199.6
100°	2.0	78.7	168.1	180.9	175.0
102.5°	2.0	69.8	153.4	161.3	154.4
105°	2.0	58.0	141.6	147.5	141.6
107.5°	2.0	46.2	128.8	136.7	130.8
110°	2.0	34.4	117.0	126.8	121.9



TEST NUMBER: P290385

CATALOG NUMBER: 4SSRK-SLN-80-L835-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	21.6	106.2	118.0	115.0
115°	2.0	7.9	95.4	111.1	108.2
117.5°	1.0	3.9	81.6	103.2	102.3
120°	1.0	2.9	68.8	96.4	96.4
122.5°	1.0	2.9	57.0	86.5	90.5
125°	1.0	2.0	43.3	76.7	81.6
127.5°	1.0	2.0	30.5	66.9	72.8
130°	1.0	2.0	15.7	55.1	62.9
132.5°	1.0	2.0	2.0	43.3	52.1
135°	2.0	2.0	2.0	31.5	41.3
137.5°	2.0	2.0	2.0	16.7	29.5
140°	2.0	2.0	1.0	1.0	13.8
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)