

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: P290384

Luminaire Tested: **4SSRK-SLN-80-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290384  
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-L830-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8367.0 lumens  
Efficiency: N/A  
Efficacy: 133.0 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

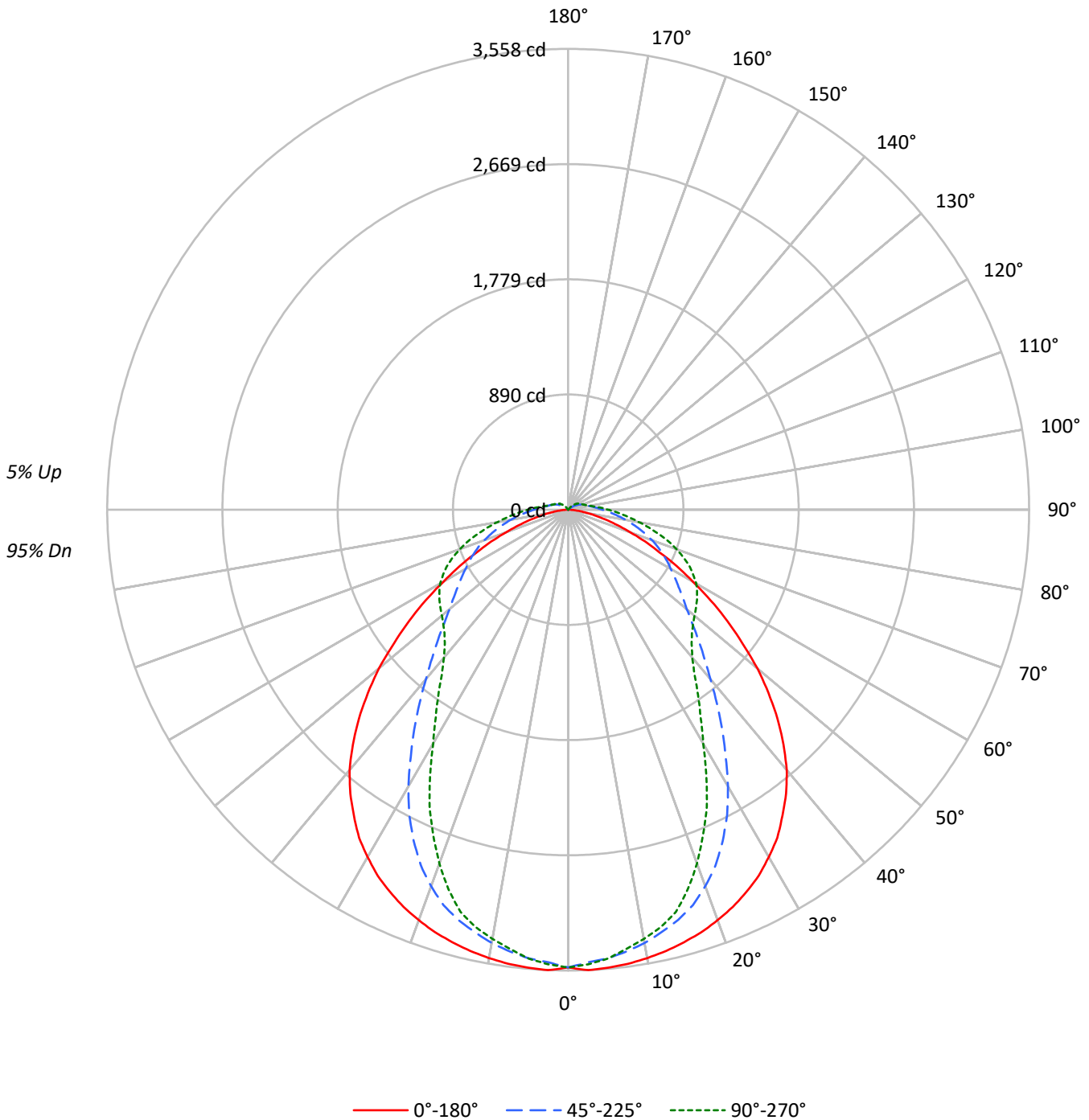
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									70									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	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°	228243	228243	228243
5°	229277	180326	167118
10°	228875	148119	129401
15°	228567	124157	103726
20°	228329	104204	81344
25°	227578	86169	62965
30°	225472	69422	46986
35°	220894	54446	36232
40°	213781	42329	28828
45°	200447	33618	24668
50°	182462	27247	22180
55°	159335	23047	20365
60°	133916	19850	18599
65°	109167	17242	16486
70°	86478	14683	13990
75°	65346	12117	11297
80°	45666	9715	8728
85°	26704	7596	6639



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.9	4.0
10°-20°	930.2	11.1
20°-30°	1308.1	15.6
30°-40°	1369.9	16.4
40°-50°	1240.2	14.8
50°-60°	1055.6	12.6
60°-70°	834.7	10.0
70°-80°	568.3	6.8
80°-90°	324.3	3.9
90°-100°	179.8	2.1
100°-110°	109.9	1.3
110°-120°	66.8	0.8
120°-130°	36.2	0.4
130°-140°	10.9	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°	2570.2	30.7
0°-40°	3940.1	47.1
0°-60°	6235.9	74.5
0°-90°	7963.1	95.2
90°-120°	356.5	4.3
90°-150°	403.9	4.8
90°-180°	404.0	4.8
0°-180°	8367.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3534	3534	3534	3534	3534	
5°	3550	3527	3477	3492	3480	338
15°	3457	3391	3279	3245	3214	977
25°	3256	3094	2821	2602	2532	1500
35°	2884	2559	2072	1813	1747	1802
45°	2286	1815	1420	1346	1350	1756
55°	1499	1144	1040	1160	1214	1341
65°	778	676	804	982	1033	784
75°	303	368	566	696	721	330
85°	53	175	345	413	419	64
90°	1	122	264	307	307	3
95°	2	94	208	230	228	1
105°	2	57	139	145	139	2
115°	2	8	94	109	106	1
125°	1	2	42	75	80	1
135°	2	2	2	31	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3534.1	3534.1	3534.1	3534.1	3534.1
2.5°	3558.2	3538.9	3498.3	3524.4	3512.8
5°	3549.5	3527.3	3477.0	3492.5	3479.9
7.5°	3536.0	3506.0	3441.3	3446.1	3421.9
10°	3515.7	3477.0	3396.8	3388.1	3364.9
12.5°	3489.6	3436.4	3339.8	3328.2	3301.1
15°	3456.7	3391.0	3278.9	3245.0	3214.1
17.5°	3420.0	3336.9	3200.6	3125.2	3072.0
20°	3372.6	3267.3	3093.3	2984.0	2906.7
22.5°	3319.5	3191.9	2972.4	2808.1	2720.1
25°	3255.7	3094.2	2820.7	2602.2	2531.7
27.5°	3185.1	2992.7	2655.4	2400.2	2306.4
30°	3096.2	2864.2	2466.9	2193.3	2085.1
32.5°	3003.4	2725.9	2262.0	1986.5	1902.4
35°	2883.5	2558.7	2072.5	1813.4	1746.7
37.5°	2762.7	2379.9	1884.0	1658.8	1599.8
40°	2624.4	2199.1	1706.1	1531.2	1489.6
42.5°	2460.1	2015.5	1555.3	1423.9	1409.4
45°	2286.1	1815.4	1420.0	1345.6	1350.4
47.5°	2096.7	1633.6	1297.2	1282.7	1306.9
50°	1906.2	1464.5	1194.8	1235.4	1273.1
52.5°	1694.5	1301.1	1113.6	1196.7	1242.1
55°	1499.3	1144.5	1040.1	1160.0	1214.1
57.5°	1305.0	1011.1	976.3	1122.3	1179.3
60°	1111.6	889.3	914.4	1081.7	1141.6
62.5°	943.4	773.3	860.3	1036.2	1088.4
65°	778.2	675.7	804.3	982.1	1033.3
67.5°	640.9	588.7	748.2	917.3	963.7
70°	510.4	506.5	688.3	845.8	888.3
72.5°	398.3	432.1	625.4	771.4	812.0
75°	302.6	368.3	566.5	696.0	721.1
77.5°	221.4	308.4	506.5	619.6	637.0
80°	151.8	256.2	449.5	543.3	555.8
82.5°	95.7	211.7	394.4	474.6	483.3
85°	53.2	175.0	345.1	412.8	418.6
87.5°	20.3	144.0	300.6	358.6	363.5
90°	1.0	121.8	263.9	307.4	307.4
92.5°	1.0	106.3	233.9	266.8	268.7
95°	1.9	93.8	207.8	230.1	228.1
97.5°	1.9	85.1	183.7	202.0	196.2
100°	1.9	77.3	165.3	177.9	172.1
102.5°	1.9	68.6	150.8	158.5	151.8
105°	1.9	57.0	139.2	145.0	139.2
107.5°	1.9	45.4	126.6	134.4	128.6
110°	1.9	33.8	115.0	124.7	119.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	21.3	104.4	116.0	113.1
115°	1.9	7.7	93.8	109.2	106.3
117.5°	1.0	3.9	80.2	101.5	100.5
120°	1.0	2.9	67.7	94.7	94.7
122.5°	1.0	2.9	56.1	85.1	88.9
125°	1.0	1.9	42.5	75.4	80.2
127.5°	1.0	1.9	30.0	65.7	71.5
130°	1.0	1.9	15.5	54.1	61.9
132.5°	1.0	1.9	1.9	42.5	51.2
135°	1.9	1.9	1.9	30.9	40.6
137.5°	1.9	1.9	1.9	16.4	29.0
140°	1.9	1.9	1.0	1.0	13.5
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)