

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: P290297

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290297  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-SLC-80-L835-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8804.1 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

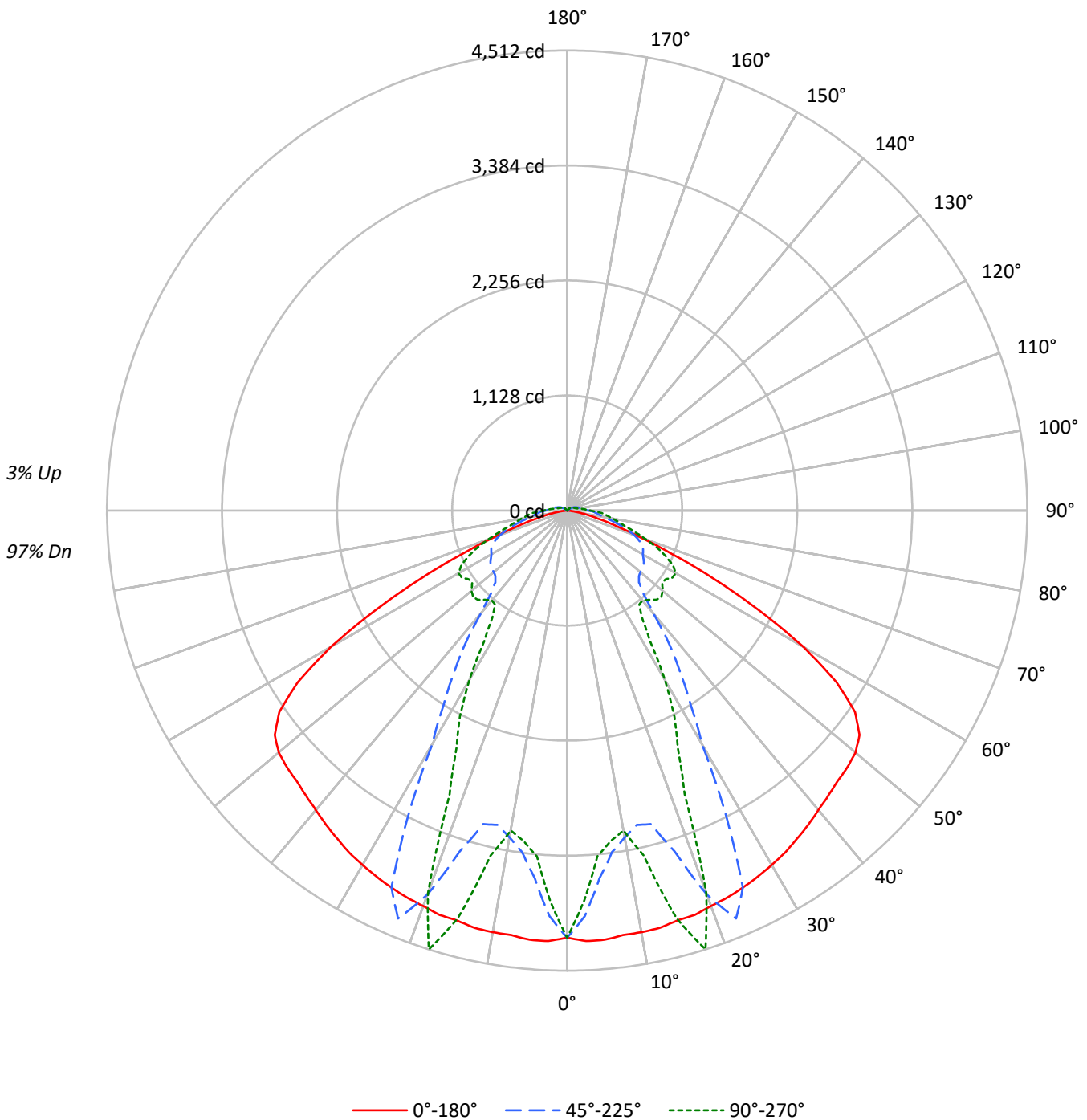
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	109	109	109	104	104	104	99	99	99	97
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	81
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	69
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	59
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	51
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	45
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	40
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	36
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	32
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	29
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	27

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

	0°	45°	90°
0°	270409	270409	270409
5°	272872	187877	163439
10°	273216	141840	122483
15°	275164	120525	133536
20°	279335	135018	111616
25°	285113	124514	63756
30°	292163	74549	43187
35°	300940	50760	26435
40°	312233	32643	22226
45°	328838	23606	22596
50°	353246	21393	21313
55°	366068	20372	19711
60°	322454	18593	20026
65°	224016	17497	17132
70°	128785	14873	12884
75°	71976	11232	9166
80°	39650	7928	7087
85°	17769	6363	5802



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.8	4.0
10°-20°	1044.7	11.9
20°-30°	1537.7	17.5
30°-40°	1502.2	17.1
40°-50°	1245.3	14.1
50°-60°	1143.3	13.0
60°-70°	905.9	10.3
70°-80°	503.0	5.7
80°-90°	266.4	3.0
90°-100°	140.1	1.6
100°-110°	84.3	1.0
110°-120°	48.1	0.5
120°-130°	26.6	0.3
130°-140°	8.4	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°	2930.2	33.3
0°-40°	4432.3	50.3
0°-60°	6820.9	77.5
0°-90°	8496.3	96.5
90°-120°	272.6	3.1
90°-150°	307.8	3.5
90°-180°	308.0	3.5
0°-180°	8804.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4187	4187	4187	4187	4187	
5°	4224	3987	3623	3468	3403	402
15°	4161	3324	3183	3898	4138	1180
25°	4079	3173	4076	2779	2564	1885
35°	3928	3788	1932	1381	1274	2465
45°	3750	1713	997	1138	1237	2908
55°	3445	763	919	1101	1175	2991
65°	1597	496	816	1035	1074	1616
75°	333	302	525	560	585	395
85°	35	148	289	351	366	49
90°	1	108	211	231	229	2
95°	2	86	164	171	163	1
105°	2	57	115	99	90	2
115°	2	7	75	71	66	2
125°	2	2	34	55	54	2
135°	2	2	2	24	30	2
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°	4187.0	4187.0	4187.0	4187.0	4187.0
2.5°	4224.4	4148.6	3980.5	3866.4	3828.1
5°	4224.4	3987.4	3622.6	3468.2	3403.3
7.5°	4198.8	3782.9	3377.7	3310.9	3268.6
10°	4196.8	3564.6	3252.8	3196.8	3185.0
12.5°	4191.9	3443.6	3156.5	3355.1	3462.3
15°	4161.4	3323.6	3183.0	3897.9	4137.8
17.5°	4156.5	3234.2	3505.6	4410.2	4511.5
20°	4126.0	3163.4	4008.0	4345.3	3988.4
22.5°	4106.4	3114.2	4331.5	3495.7	3010.0
25°	4078.8	3173.2	4075.9	2778.9	2563.5
27.5°	4047.4	3363.0	3378.7	2419.0	2276.4
30°	4012.0	3659.9	2649.1	2114.1	1916.5
32.5°	3976.6	3877.3	2254.8	1735.6	1503.5
35°	3928.4	3787.8	1932.2	1380.6	1274.4
37.5°	3883.2	3374.8	1638.2	1191.8	1161.3
40°	3833.0	2718.9	1315.7	1117.1	1148.5
42.5°	3790.7	2155.4	1105.3	1109.2	1186.9
45°	3750.4	1713.0	997.1	1137.7	1237.0
47.5°	3726.8	1361.9	953.8	1172.1	1251.8
50°	3690.4	1091.5	938.1	1179.0	1223.3
52.5°	3613.7	899.7	933.2	1142.6	1173.1
55°	3444.6	763.1	919.4	1101.3	1175.1
57.5°	3132.9	678.5	887.9	1110.2	1223.3
60°	2676.6	612.6	856.5	1138.7	1229.2
62.5°	2129.9	552.6	839.8	1115.1	1171.1
65°	1596.9	495.6	816.2	1035.4	1073.8
67.5°	1118.0	446.4	763.1	936.1	956.8
70°	760.1	399.2	697.2	809.3	818.1
72.5°	511.3	352.0	615.6	678.5	692.3
75°	333.3	301.9	525.1	560.5	585.1
77.5°	212.4	256.6	435.6	480.8	512.3
80°	131.8	212.4	366.8	431.7	451.3
82.5°	73.7	177.0	317.6	385.5	396.3
85°	35.4	148.5	289.1	351.0	365.8
87.5°	8.8	125.9	254.7	291.1	291.1
90°	1.0	108.2	211.4	231.1	229.1
92.5°	1.0	95.4	183.9	196.7	192.7
95°	2.0	85.5	164.2	171.1	163.2
97.5°	2.0	80.6	151.4	146.5	134.7
100°	2.0	74.7	137.7	124.9	112.1
102.5°	2.0	66.9	125.9	110.1	99.3
105°	2.0	57.0	115.0	99.3	89.5
107.5°	2.0	45.2	103.2	90.5	82.6
110°	2.0	32.4	92.4	83.6	77.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	19.7	83.6	77.7	72.8
115°	2.0	6.9	74.7	70.8	65.9
117.5°	2.0	2.9	65.9	67.8	61.9
120°	2.0	2.9	55.1	63.9	59.0
122.5°	2.0	2.9	45.2	60.0	57.0
125°	2.0	2.0	34.4	55.1	54.1
127.5°	2.0	2.0	23.6	48.2	50.1
130°	2.0	2.0	11.8	39.3	44.2
132.5°	2.0	2.0	2.0	32.4	36.4
135°	2.0	2.0	2.0	23.6	29.5
137.5°	2.0	2.0	2.0	11.8	21.6
140°	2.0	2.0	2.0	2.0	8.8
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)