

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: P290433

Luminaire Tested: **8SSRK-SLN-12-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290433  
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: 8SSRK-SLN-12-L835-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

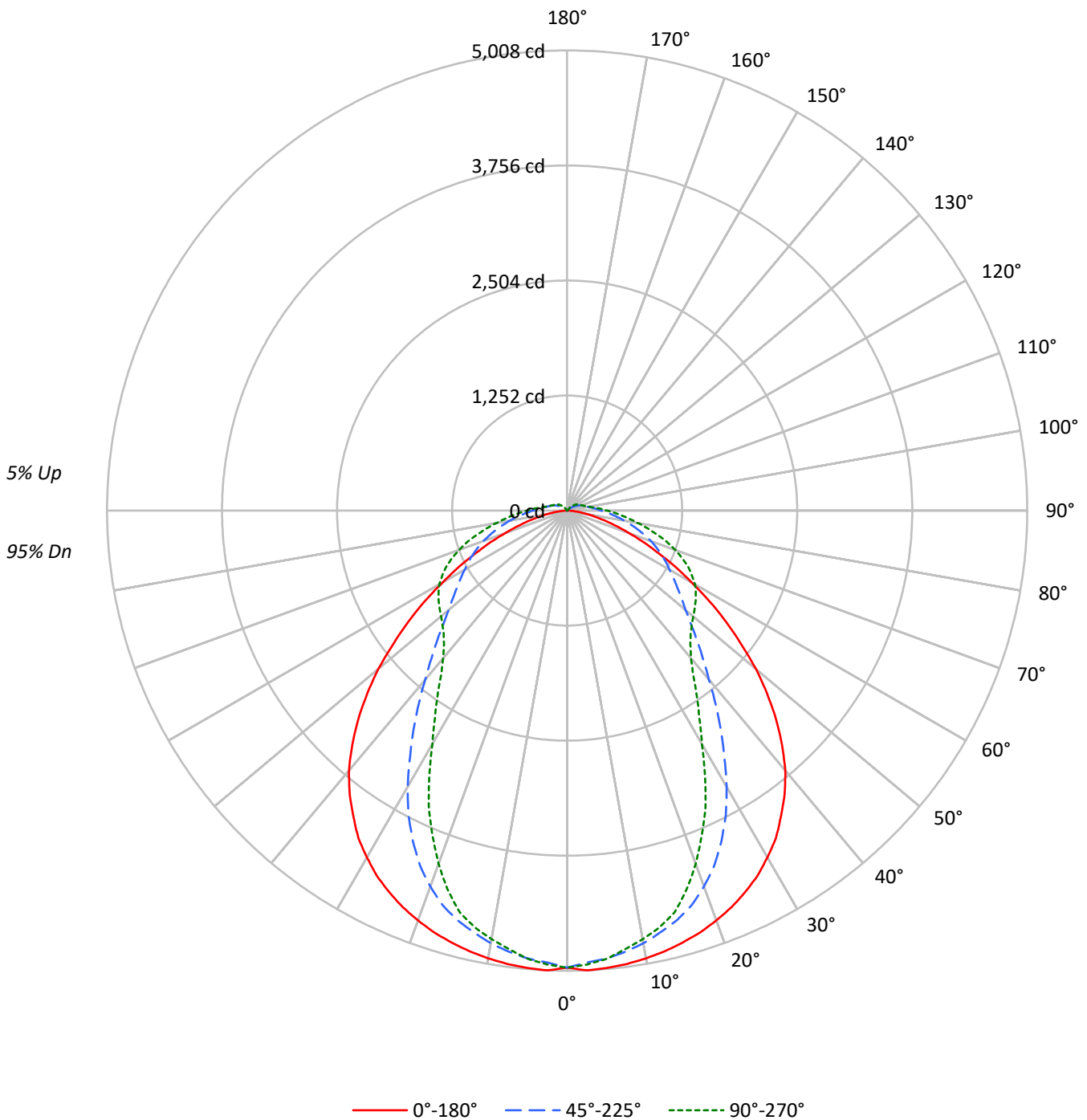
Lumens per Lamp: N/A  
Luminaire Lumens: 11776.3 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 80.8951  
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	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°	160621	160621	160621
5°	161647	127033	117608
10°	161656	104417	91064
15°	161744	87568	72996
20°	161894	73525	57245
25°	161695	60818	44309
30°	160558	49012	33065
35°	157688	38448	25499
40°	153032	29897	20287
45°	143940	23749	17360
50°	131519	19251	15609
55°	115368	16286	14332
60°	97527	14031	13089
65°	80103	12187	11602
70°	64155	10380	9845
75°	49292	8567	7950
80°	35524	6870	6142
85°	22384	5372	4672



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.1	4.0
10°-20°	1309.3	11.1
20°-30°	1841.1	15.6
30°-40°	1928.1	16.4
40°-50°	1745.6	14.8
50°-60°	1485.7	12.6
60°-70°	1174.8	10.0
70°-80°	799.9	6.8
80°-90°	456.4	3.9
90°-100°	253.1	2.1
100°-110°	154.6	1.3
110°-120°	94.0	0.8
120°-130°	51.0	0.4
130°-140°	15.4	0.1
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3617.5	30.7
0°-40°	5545.6	47.1
0°-60°	8776.8	74.5
0°-90°	11207.9	95.2
90°-120°	501.8	4.3
90°-150°	568.5	4.8
90°-180°	568.0	4.8
0°-180°	11776.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4974	4974	4974	4974	4974	
5°	4996	4965	4894	4916	4898	475
15°	4865	4773	4615	4567	4524	1375
25°	4582	4355	3970	3662	3563	2111
35°	4058	3601	2917	2552	2458	2536
45°	3218	2555	1999	1894	1901	2471
55°	2110	1611	1464	1633	1709	1887
65°	1095	951	1132	1382	1454	1103
75°	426	518	797	980	1015	465
85°	75	246	486	581	589	90
90°	1	171	371	433	433	4
95°	3	132	292	324	321	2
105°	3	80	196	204	196	3
115°	3	11	132	154	150	2
125°	1	3	60	106	113	1
135°	3	3	3	44	57	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°	4974.1	4974.1	4974.1	4974.1	4974.1
2.5°	5008.1	4980.9	4923.8	4960.5	4944.2
5°	4995.9	4964.6	4893.8	4915.6	4897.9
7.5°	4976.8	4934.6	4843.5	4850.3	4816.3
10°	4948.2	4893.8	4780.9	4768.7	4736.0
12.5°	4911.5	4836.7	4700.6	4684.3	4646.2
15°	4865.2	4772.7	4614.9	4567.3	4523.8
17.5°	4813.5	4696.5	4504.7	4398.6	4323.8
20°	4746.9	4598.6	4353.7	4200.0	4091.1
22.5°	4672.1	4492.5	4183.6	3952.3	3828.5
25°	4582.3	4355.1	3970.0	3662.5	3563.2
27.5°	4482.9	4212.2	3737.4	3378.2	3246.2
30°	4357.8	4031.2	3472.1	3087.0	2934.7
32.5°	4227.2	3836.7	3183.6	2795.9	2677.5
35°	4058.5	3601.3	2917.0	2552.4	2458.5
37.5°	3888.4	3349.6	2651.7	2334.7	2251.7
40°	3693.8	3095.2	2401.3	2155.1	2096.6
42.5°	3462.5	2836.7	2189.1	2004.1	1983.7
45°	3217.6	2555.1	1998.6	1893.9	1900.7
47.5°	2951.0	2299.3	1825.8	1805.4	1839.4
50°	2683.0	2061.2	1681.6	1738.8	1791.8
52.5°	2385.0	1831.3	1567.3	1684.3	1748.3
55°	2110.2	1610.9	1463.9	1632.6	1708.8
57.5°	1836.7	1423.1	1374.1	1579.6	1659.8
60°	1564.6	1251.7	1287.1	1522.4	1606.8
62.5°	1327.9	1088.4	1210.9	1458.5	1532.0
65°	1095.2	951.0	1132.0	1382.3	1454.4
67.5°	902.0	828.6	1053.0	1291.1	1356.4
70°	718.4	712.9	968.7	1190.5	1250.3
72.5°	560.5	608.2	880.3	1085.7	1142.8
75°	425.8	518.4	797.3	979.6	1015.0
77.5°	311.6	434.0	712.9	872.1	896.6
80°	213.6	360.5	632.6	764.6	782.3
82.5°	134.7	298.0	555.1	668.0	680.3
85°	74.8	246.3	485.7	580.9	589.1
87.5°	28.6	202.7	423.1	504.8	511.6
90°	1.4	171.4	371.4	432.6	432.6
92.5°	1.4	149.7	329.2	375.5	378.2
95°	2.7	132.0	292.5	323.8	321.1
97.5°	2.7	119.7	258.5	284.4	276.2
100°	2.7	108.8	232.7	250.3	242.2
102.5°	2.7	96.6	212.2	223.1	213.6
105°	2.7	80.3	195.9	204.1	195.9
107.5°	2.7	63.9	178.2	189.1	181.0
110°	2.7	47.6	161.9	175.5	168.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	29.9	146.9	163.3	159.2
115°	2.7	10.9	132.0	153.7	149.7
117.5°	1.4	5.4	112.9	142.9	141.5
120°	1.4	4.1	95.2	133.3	133.3
122.5°	1.4	4.1	78.9	119.7	125.2
125°	1.4	2.7	59.9	106.1	112.9
127.5°	1.4	2.7	42.2	92.5	100.7
130°	1.4	2.7	21.8	76.2	87.1
132.5°	1.4	2.7	2.7	59.9	72.1
135°	2.7	2.7	2.7	43.5	57.1
137.5°	2.7	2.7	2.7	23.1	40.8
140°	2.7	2.7	1.4	1.4	19.0
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)