

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: P290428

Luminaire Tested: **8SSRK-SLN-12-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290428  
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-L930-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9319.3 lumens  
Efficiency: N/A  
Efficacy: 115.2 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

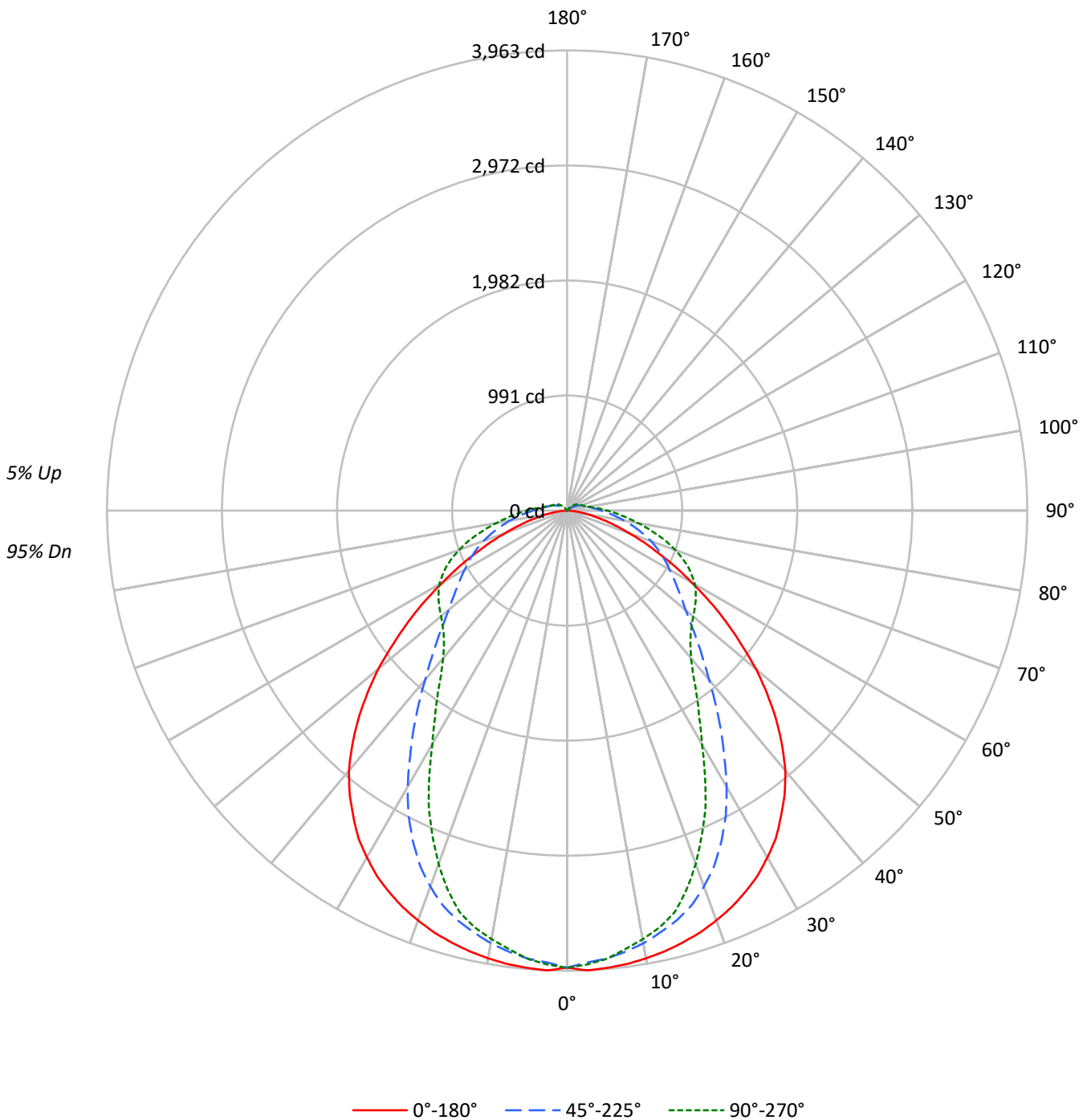
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	127106	127106	127106
5°	127919	100527	93070
10°	127928	82631	72063
15°	127997	69297	57766
20°	128113	58184	45301
25°	127957	48129	35065
30°	127056	38785	26165
35°	124787	30425	20178
40°	121102	23660	16054
45°	113909	18794	13738
50°	104078	15234	12352
55°	91296	12889	11342
60°	77182	11103	10358
65°	63391	9644	9181
70°	50768	8214	7791
75°	39012	6779	6291
80°	28106	5436	4861
85°	17715	4252	3697



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.6	4.0
10°-20°	1036.1	11.1
20°-30°	1457.0	15.6
30°-40°	1525.8	16.4
40°-50°	1381.4	14.8
50°-60°	1175.7	12.6
60°-70°	929.6	10.0
70°-80°	633.0	6.8
80°-90°	361.2	3.9
90°-100°	200.3	2.1
100°-110°	122.4	1.3
110°-120°	74.4	0.8
120°-130°	40.3	0.4
130°-140°	12.2	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°	2862.7	30.7
0°-40°	4388.5	47.1
0°-60°	6945.5	74.5
0°-90°	8869.3	95.2
90°-120°	397.1	4.3
90°-150°	449.9	4.8
90°-180°	450.0	4.8
0°-180°	9319.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3936	3936	3936	3936	3936	
5°	3954	3929	3873	3890	3876	376
15°	3850	3777	3652	3614	3580	1088
25°	3626	3446	3142	2898	2820	1671
35°	3212	2850	2308	2020	1946	2007
45°	2546	2022	1582	1499	1504	1956
55°	1670	1275	1158	1292	1352	1493
65°	867	753	896	1094	1151	873
75°	337	410	631	775	803	368
85°	59	195	384	460	466	71
90°	1	136	294	342	342	4
95°	2	104	232	256	254	2
105°	2	64	155	162	155	2
115°	2	9	104	122	118	2
125°	1	2	47	84	89	1
135°	2	2	2	34	45	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°	3936.2	3936.2	3936.2	3936.2	3936.2
2.5°	3963.2	3941.6	3896.4	3925.5	3912.6
5°	3953.5	3928.7	3872.7	3889.9	3876.0
7.5°	3938.4	3905.0	3832.9	3838.3	3811.4
10°	3915.8	3872.7	3783.4	3773.7	3747.8
12.5°	3886.7	3827.5	3719.8	3706.9	3676.8
15°	3850.1	3776.9	3652.0	3614.3	3579.9
17.5°	3809.2	3716.6	3564.8	3480.8	3421.6
20°	3756.4	3639.1	3445.3	3323.6	3237.5
22.5°	3697.2	3555.1	3310.7	3127.7	3029.7
25°	3626.2	3446.4	3141.7	2898.3	2819.8
27.5°	3547.6	3333.3	2957.6	2673.3	2568.9
30°	3448.5	3190.1	2747.6	2442.9	2322.3
32.5°	3345.2	3036.2	2519.4	2212.5	2118.9
35°	3211.7	2849.9	2308.3	2019.8	1945.5
37.5°	3077.1	2650.7	2098.4	1847.5	1781.9
40°	2923.1	2449.4	1900.3	1705.4	1659.1
42.5°	2740.1	2244.8	1732.3	1585.9	1569.8
45°	2546.3	2022.0	1581.6	1498.7	1504.1
47.5°	2335.3	1819.5	1444.9	1428.7	1455.6
50°	2123.2	1631.1	1330.7	1376.0	1418.0
52.5°	1887.4	1449.2	1240.3	1332.9	1383.5
55°	1669.9	1274.8	1158.5	1292.0	1352.3
57.5°	1453.5	1126.2	1087.4	1250.0	1313.5
60°	1238.2	990.5	1018.5	1204.8	1271.5
62.5°	1050.8	861.3	958.2	1154.2	1212.3
65°	866.7	752.6	895.8	1093.9	1150.9
67.5°	713.8	655.7	833.3	1021.7	1073.4
70°	568.5	564.2	766.6	942.1	989.4
72.5°	443.6	481.3	696.6	859.2	904.4
75°	337.0	410.2	630.9	775.2	803.2
77.5°	246.6	343.5	564.2	690.1	709.5
80°	169.0	285.3	500.6	605.1	619.1
82.5°	106.6	235.8	439.3	528.6	538.3
85°	59.2	194.9	384.4	459.7	466.2
87.5°	22.6	160.4	334.8	399.4	404.8
90°	1.1	135.7	293.9	342.4	342.4
92.5°	1.1	118.4	260.5	297.2	299.3
95°	2.2	104.4	231.5	256.2	254.1
97.5°	2.2	94.7	204.6	225.0	218.6
100°	2.2	86.1	184.1	198.1	191.6
102.5°	2.2	76.4	168.0	176.6	169.0
105°	2.2	63.5	155.0	161.5	155.0
107.5°	2.2	50.6	141.0	149.7	143.2
110°	2.2	37.7	128.1	138.9	133.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	23.7	116.3	129.2	126.0
115°	2.2	8.6	104.4	121.7	118.4
117.5°	1.1	4.3	89.4	113.0	112.0
120°	1.1	3.2	75.4	105.5	105.5
122.5°	1.1	3.2	62.4	94.7	99.1
125°	1.1	2.2	47.4	84.0	89.4
127.5°	1.1	2.2	33.4	73.2	79.7
130°	1.1	2.2	17.2	60.3	68.9
132.5°	1.1	2.2	2.2	47.4	57.1
135°	2.2	2.2	2.2	34.5	45.2
137.5°	2.2	2.2	2.2	18.3	32.3
140°	2.2	2.2	1.1	1.1	15.1
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)