

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: P290356

Luminaire Tested: **4SSRK-SLN-30-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290356  
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-30-L930-CD1-U  
Description: 3000 LUMEN, 4 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: 2502.3 lumens  
Efficiency: N/A  
Efficacy: 122.7 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

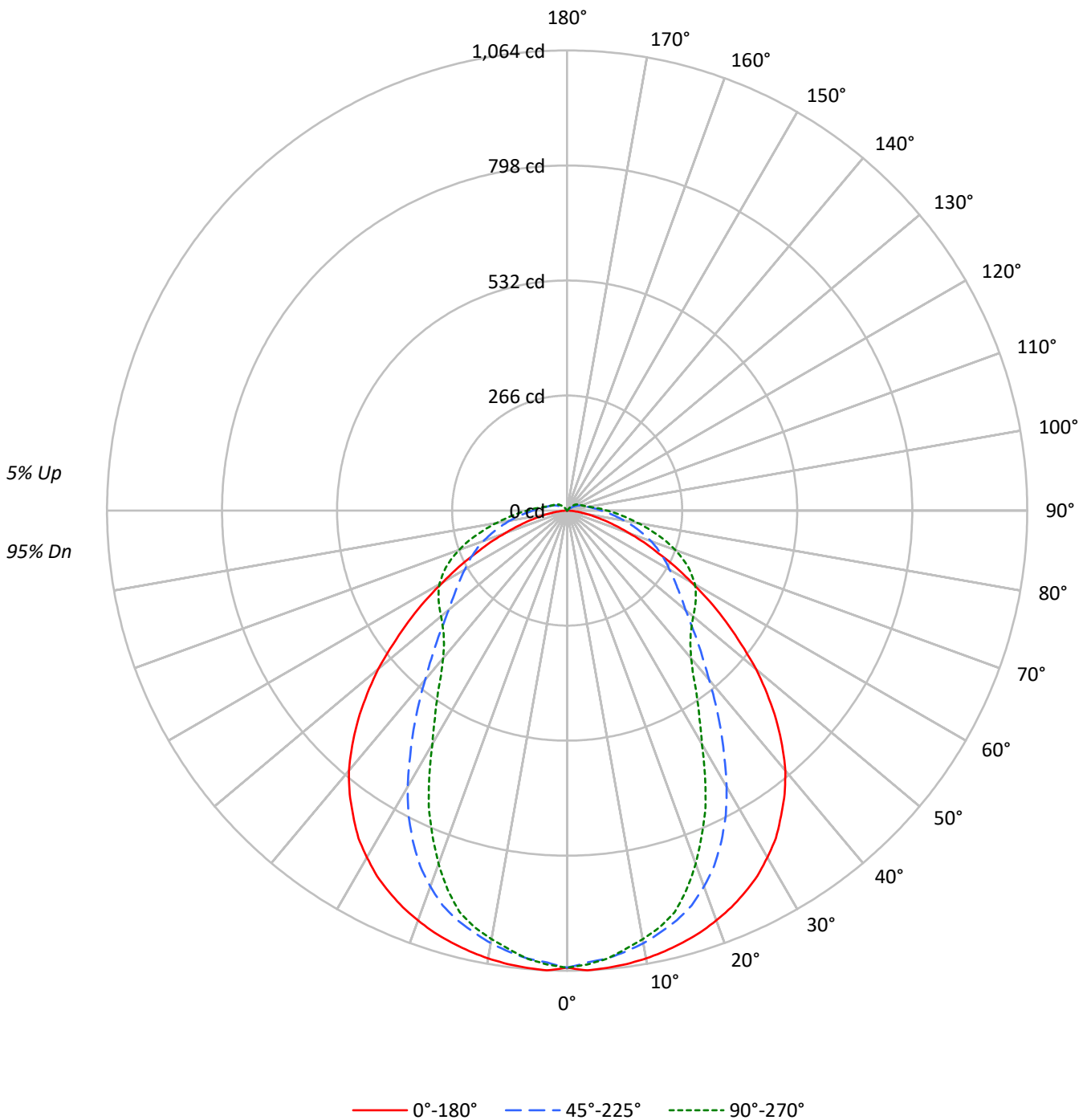
Input Watts (W): 20.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	68258	68258	68258
5°	68567	53927	49978
10°	68447	44295	38698
15°	68358	37131	31020
20°	68283	31164	24327
25°	68056	25771	18829
30°	67426	20760	14052
35°	66058	16283	10836
40°	63937	12658	8622
45°	59947	10055	7378
50°	54570	8148	6633
55°	47653	6893	6091
60°	40045	5937	5562
65°	32644	5156	4930
70°	25855	4390	4185
75°	19543	3623	3379
80°	13658	2905	2610
85°	7981	2272	1986



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.2	4.0
10°-20°	278.2	11.1
20°-30°	391.2	15.6
30°-40°	409.7	16.4
40°-50°	370.9	14.8
50°-60°	315.7	12.6
60°-70°	249.6	10.0
70°-80°	169.9	6.8
80°-90°	97.0	3.9
90°-100°	53.8	2.1
100°-110°	32.9	1.3
110°-120°	20.0	0.8
120°-130°	10.8	0.4
130°-140°	3.3	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	768.7	30.7
0°-40°	1178.3	47.1
0°-60°	1864.9	74.5
0°-90°	2381.4	95.2
90°-120°	106.6	4.3
90°-150°	120.8	4.8
90°-180°	121.0	4.8
0°-180°	2502.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1062	1055	1040	1044	1041	101
15°	1034	1014	981	970	961	292
25°	974	925	844	778	757	449
35°	862	765	620	542	522	539
45°	684	543	425	402	404	525
55°	448	342	311	347	363	401
65°	233	202	240	294	309	234
75°	90	110	169	208	216	99
85°	16	52	103	123	125	19
90°	0	36	79	92	92	1
95°	1	28	62	69	68	0
105°	1	17	42	43	42	1
115°	1	2	28	33	32	0
125°	0	1	13	22	24	0
135°	1	1	1	9	12	0
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°	1056.9	1056.9	1056.9	1056.9	1056.9
2.5°	1064.1	1058.3	1046.2	1054.0	1050.5
5°	1061.5	1054.9	1039.8	1044.5	1040.7
7.5°	1057.5	1048.5	1029.1	1030.6	1023.4
10°	1051.4	1039.8	1015.8	1013.2	1006.3
12.5°	1043.6	1027.7	998.8	995.3	987.2
15°	1033.8	1014.1	980.6	970.5	961.2
17.5°	1022.8	997.9	957.2	934.6	918.7
20°	1008.6	977.1	925.1	892.4	869.3
22.5°	992.7	954.6	888.9	839.8	813.5
25°	973.6	925.4	843.6	778.2	757.1
27.5°	952.5	895.0	794.1	717.8	689.8
30°	925.9	856.6	737.7	655.9	623.6
32.5°	898.2	815.2	676.5	594.1	568.9
35°	862.3	765.2	619.8	542.3	522.4
37.5°	826.2	711.7	563.4	496.1	478.4
40°	784.9	657.7	510.2	457.9	445.5
42.5°	735.7	602.7	465.1	425.8	421.5
45°	683.7	542.9	424.7	402.4	403.9
47.5°	627.0	488.6	388.0	383.6	390.8
50°	570.1	438.0	357.3	369.5	380.7
52.5°	506.8	389.1	333.0	357.9	371.5
55°	448.4	342.3	311.1	346.9	363.1
57.5°	390.3	302.4	292.0	335.6	352.7
60°	332.4	266.0	273.5	323.5	341.4
62.5°	282.1	231.3	257.3	309.9	325.5
65°	232.7	202.1	240.5	293.7	309.0
67.5°	191.7	176.1	223.8	274.3	288.2
70°	152.6	151.5	205.8	253.0	265.7
72.5°	119.1	129.2	187.0	230.7	242.8
75°	90.5	110.1	169.4	208.1	215.7
77.5°	66.2	92.2	151.5	185.3	190.5
80°	45.4	76.6	134.4	162.5	166.2
82.5°	28.6	63.3	117.9	141.9	144.5
85°	15.9	52.3	103.2	123.4	125.2
87.5°	6.1	43.1	89.9	107.3	108.7
90°	0.3	36.4	78.9	91.9	91.9
92.5°	0.3	31.8	70.0	79.8	80.4
95°	0.6	28.0	62.2	68.8	68.2
97.5°	0.6	25.4	54.9	60.4	58.7
100°	0.6	23.1	49.4	53.2	51.5
102.5°	0.6	20.5	45.1	47.4	45.4
105°	0.6	17.1	41.6	43.4	41.6
107.5°	0.6	13.6	37.9	40.2	38.4
110°	0.6	10.1	34.4	37.3	35.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	6.4	31.2	34.7	33.8
115°	0.6	2.3	28.0	32.7	31.8
117.5°	0.3	1.2	24.0	30.4	30.1
120°	0.3	0.9	20.2	28.3	28.3
122.5°	0.3	0.9	16.8	25.4	26.6
125°	0.3	0.6	12.7	22.5	24.0
127.5°	0.3	0.6	9.0	19.7	21.4
130°	0.3	0.6	4.6	16.2	18.5
132.5°	0.3	0.6	0.6	12.7	15.3
135°	0.6	0.6	0.6	9.3	12.1
137.5°	0.6	0.6	0.6	4.9	8.7
140°	0.6	0.6	0.3	0.3	4.0
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)