

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: P290100

Luminaire Tested: **4SSRK-LN-40-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290100  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-LN-40-L930-CD1-U  
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3268.5 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

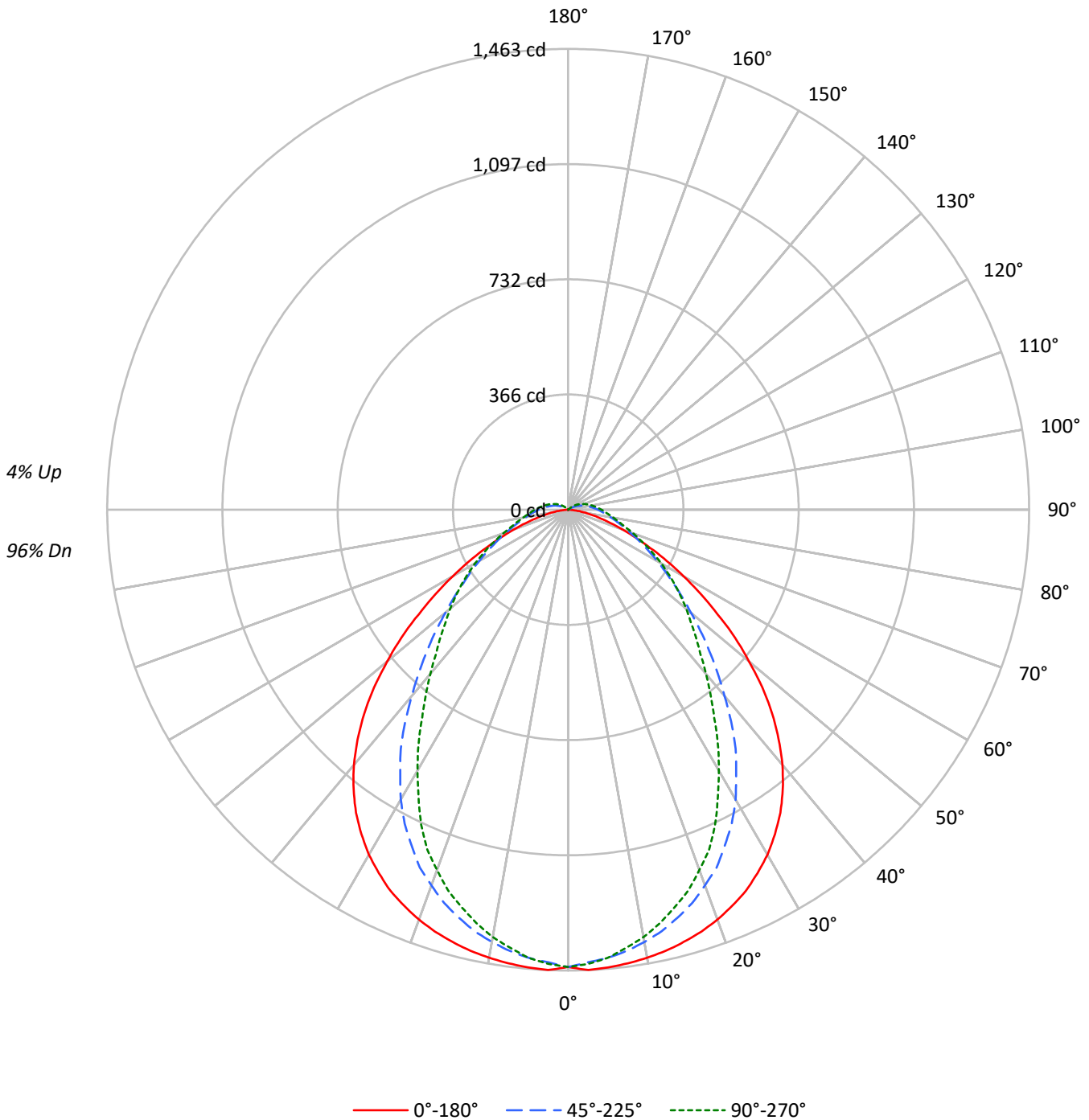
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	103	103	98	98	98	96
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27

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

	0°	45°	90°
0°	93762	93762	93762
5°	94224	74101	68616
10°	94038	60760	52992
15°	93914	50781	42164
20°	93759	42756	34069
25°	93318	35931	27447
30°	92091	29897	21543
35°	89959	24348	16769
40°	86200	19169	13173
45°	80280	14979	10469
50°	71752	11580	8525
55°	61564	9012	6924
60°	50984	7068	5567
65°	40331	5563	4397
70°	31125	4403	3457
75°	22912	3576	2753
80°	16064	2950	2282
85°	9286	2487	1945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.3	4.2
10°-20°	381.7	11.7
20°-30°	550.1	16.8
30°-40°	595.9	18.2
40°-50°	527.8	16.1
50°-60°	401.6	12.3
60°-70°	267.6	8.2
70°-80°	165.3	5.1
80°-90°	103.6	3.2
90°-100°	68.0	2.1
100°-110°	41.7	1.3
110°-120°	21.5	0.7
120°-130°	7.1	0.2
130°-140°	0.4	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1068.1	32.7
0°-40°	1663.9	50.9
0°-60°	2593.3	79.3
0°-90°	3129.7	95.8
90°-120°	131.3	4.0
90°-150°	138.8	4.2
90°-180°	139.0	4.3
0°-180°	3268.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1459	1450	1429	1434	1429	139
15°	1420	1393	1341	1323	1306	401
25°	1335	1272	1176	1126	1104	614
35°	1174	1064	927	840	808	732
45°	916	772	633	585	573	702
55°	579	473	407	412	413	520
65°	288	252	260	274	276	290
75°	106	129	167	178	176	117
85°	18	66	113	124	123	23
90°	1	48	94	106	105	1
95°	2	34	78	90	90	1
105°	1	14	49	62	64	1
115°	1	1	25	39	42	1
125°	1	1	1	17	21	1
135°	0	0	0	0	0	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°	1451.8	1451.8	1451.8	1451.8	1451.8
2.5°	1462.6	1454.5	1438.0	1447.6	1443.0
5°	1458.7	1449.5	1428.8	1434.1	1428.8
7.5°	1452.6	1441.1	1413.4	1415.7	1403.0
10°	1444.5	1429.1	1393.4	1389.6	1378.0
12.5°	1434.1	1412.6	1370.7	1355.3	1344.2
15°	1420.3	1393.4	1341.1	1323.1	1306.5
17.5°	1404.5	1370.0	1309.2	1287.3	1267.7
20°	1384.9	1341.5	1269.2	1238.9	1217.4
22.5°	1361.1	1310.4	1229.7	1185.4	1168.1
25°	1335.0	1272.3	1176.2	1125.9	1103.6
27.5°	1300.8	1230.4	1123.6	1060.5	1028.6
30°	1264.6	1180.8	1062.4	989.8	956.0
32.5°	1221.2	1126.6	991.7	914.5	884.5
35°	1174.3	1064.4	926.8	839.5	808.4
37.5°	1118.9	997.1	849.5	769.5	742.2
40°	1058.2	924.1	772.6	702.3	680.7
42.5°	989.0	849.9	700.4	639.6	621.2
45°	915.6	772.2	632.7	584.7	573.1
47.5°	835.7	694.6	569.3	535.1	526.6
50°	749.6	616.9	507.8	488.9	489.3
52.5°	667.7	543.5	455.5	450.5	449.3
55°	579.3	472.8	406.7	411.7	412.8
57.5°	499.3	407.1	365.2	374.4	375.5
60°	423.2	348.3	325.6	339.8	341.7
62.5°	353.6	297.9	291.7	306.4	306.0
65°	287.5	252.2	259.5	274.5	275.6
67.5°	231.4	214.9	232.6	245.6	244.9
70°	183.7	181.4	206.4	220.3	219.5
72.5°	143.0	153.4	186.0	198.0	194.9
75°	106.1	129.2	167.2	178.4	175.7
77.5°	78.0	109.2	150.7	161.4	159.5
80°	53.4	92.6	136.5	147.6	145.3
82.5°	34.2	78.8	124.2	134.9	133.4
85°	18.5	66.5	113.0	124.5	122.6
87.5°	6.9	56.5	103.0	114.5	113.8
90°	0.8	48.4	94.2	106.1	105.3
92.5°	1.2	41.1	85.7	98.0	98.0
95°	1.9	34.2	78.0	90.3	89.9
97.5°	1.5	28.8	69.6	83.0	83.0
100°	1.5	23.8	61.9	75.3	76.1
102.5°	1.5	18.8	55.4	68.4	70.0
105°	1.2	13.5	48.8	62.3	63.8
107.5°	1.2	7.7	42.3	56.5	58.4
110°	1.2	1.9	36.5	50.4	52.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	30.8	44.6	46.9
115°	1.2	1.2	25.0	38.8	42.3
117.5°	0.8	0.8	18.5	33.8	36.9
120°	0.8	0.8	11.5	28.4	31.5
122.5°	0.8	0.8	5.0	22.7	26.9
125°	0.8	0.8	0.8	16.9	21.1
127.5°	0.8	0.8	0.4	10.0	15.0
130°	0.8	0.8	0.4	3.8	9.2
132.5°	0.8	0.8	0.4	0.4	2.7
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)