

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: P290392

Luminaire Tested: **8SSRK-SLN-40-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290392  
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-40-L830-CD1-U  
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

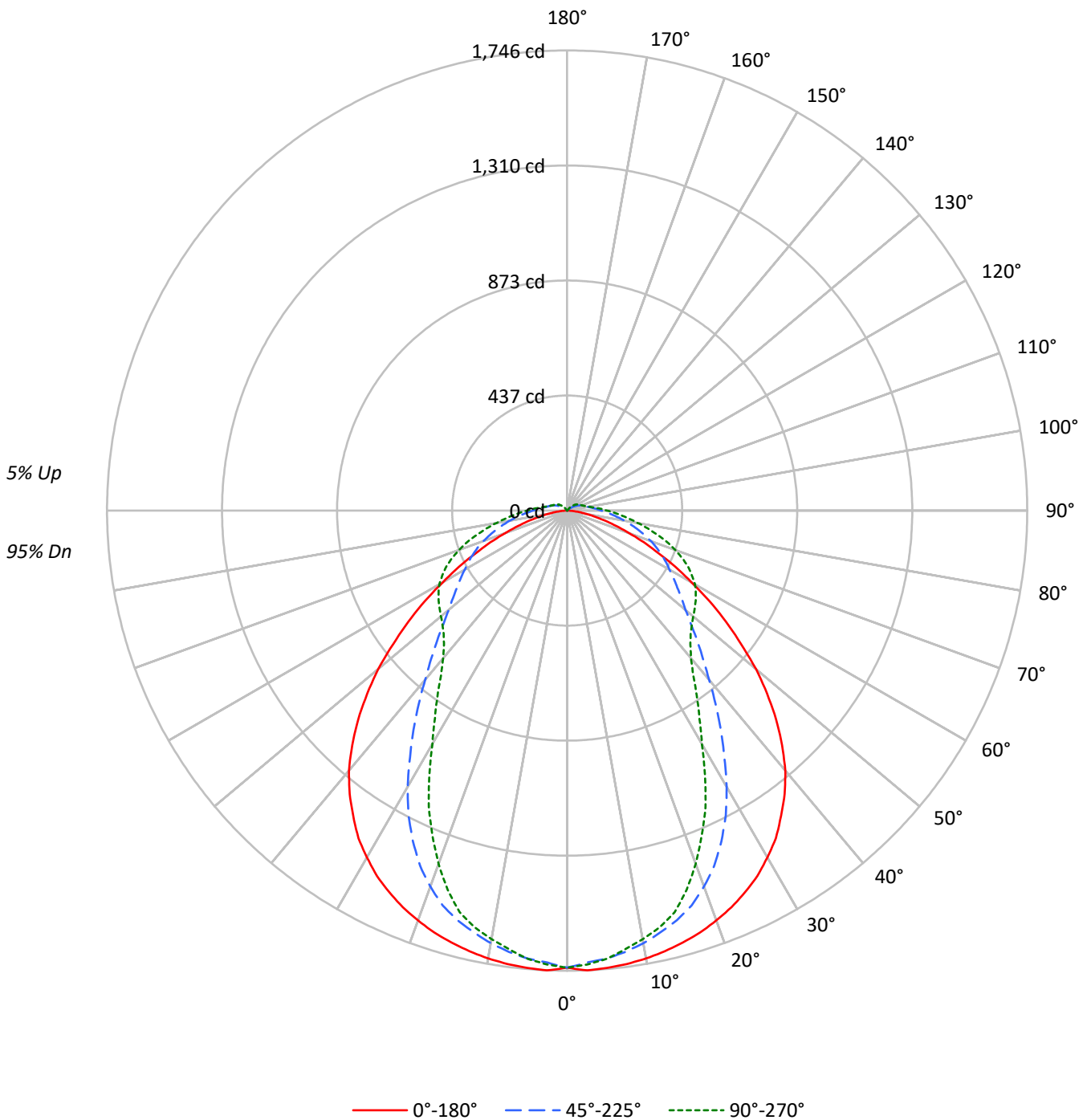
Lumens per Lamp: N/A  
Luminaire Lumens: 4106.1 lumens  
Efficiency: N/A  
Efficacy: 152.0 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 27.0151  
Input Voltage (V): NR  
Input 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°	56003	56003	56003
5°	56361	44292	41005
10°	56365	36408	31751
15°	56397	30533	25451
20°	56448	25636	19959
25°	56378	21205	15450
30°	55981	17089	11528
35°	54982	13406	8891
40°	53357	10425	7073
45°	50188	8281	6053
50°	45858	6712	5443
55°	40228	5678	4997
60°	34003	4892	4563
65°	27932	4249	4045
70°	22370	3619	3433
75°	17191	2987	2772
80°	12390	2396	2142
85°	7810	1874	1629



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.9	4.0
10°-20°	456.5	11.1
20°-30°	642.0	15.6
30°-40°	672.3	16.4
40°-50°	608.6	14.8
50°-60°	518.0	12.6
60°-70°	409.6	10.0
70°-80°	278.9	6.8
80°-90°	159.2	3.9
90°-100°	88.3	2.1
100°-110°	53.9	1.3
110°-120°	32.8	0.8
120°-130°	17.8	0.4
130°-140°	5.4	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°	1261.3	30.7
0°-40°	1933.6	47.1
0°-60°	3060.2	74.5
0°-90°	3907.9	95.2
90°-120°	174.9	4.3
90°-150°	198.2	4.8
90°-180°	198.0	4.8
0°-180°	4106.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1742	1731	1706	1714	1708	166
15°	1696	1664	1609	1592	1577	479
25°	1598	1518	1384	1277	1242	736
35°	1415	1256	1017	890	857	884
45°	1122	891	697	660	663	862
55°	736	562	510	569	596	658
65°	382	332	395	482	507	385
75°	148	181	278	342	354	162
85°	26	86	169	203	205	31
90°	0	60	130	151	151	2
95°	1	46	102	113	112	1
105°	1	28	68	71	68	1
115°	1	4	46	54	52	1
125°	0	1	21	37	39	0
135°	1	1	1	15	20	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°	1734.3	1734.3	1734.3	1734.3	1734.3
2.5°	1746.2	1736.7	1716.8	1729.6	1723.9
5°	1741.9	1731.0	1706.3	1713.9	1707.7
7.5°	1735.3	1720.6	1688.8	1691.1	1679.3
10°	1725.3	1706.3	1667.0	1662.7	1651.3
12.5°	1712.5	1686.4	1639.0	1633.3	1620.0
15°	1696.4	1664.1	1609.1	1592.5	1577.3
17.5°	1678.3	1637.5	1570.7	1533.7	1507.6
20°	1655.1	1603.4	1518.0	1464.4	1426.4
22.5°	1629.0	1566.4	1458.7	1378.1	1334.9
25°	1597.7	1518.5	1384.2	1277.0	1242.4
27.5°	1563.1	1468.7	1303.1	1177.9	1131.9
30°	1519.4	1405.6	1210.6	1076.4	1023.2
32.5°	1473.9	1337.7	1110.0	974.8	933.6
35°	1415.1	1255.7	1017.1	889.9	857.2
37.5°	1355.8	1167.9	924.6	814.0	785.1
40°	1287.9	1079.2	837.3	751.4	731.0
42.5°	1207.3	989.1	763.3	698.8	691.6
45°	1121.9	890.9	696.9	660.3	662.7
47.5°	1028.9	801.7	636.6	629.5	641.4
50°	935.5	718.7	586.3	606.3	624.8
52.5°	831.6	638.5	546.5	587.3	609.6
55°	735.8	561.7	510.4	569.2	595.8
57.5°	640.4	496.2	479.1	550.7	578.7
60°	545.5	436.4	448.8	530.8	560.2
62.5°	463.0	379.5	422.2	508.5	534.1
65°	381.9	331.6	394.7	482.0	507.1
67.5°	314.5	288.9	367.2	450.2	473.0
70°	250.5	248.6	337.8	415.1	436.0
72.5°	195.4	212.0	306.9	378.6	398.5
75°	148.5	180.7	278.0	341.5	353.9
77.5°	108.6	151.3	248.6	304.1	312.6
80°	74.5	125.7	220.6	266.6	272.8
82.5°	47.0	103.9	193.5	232.9	237.2
85°	26.1	85.9	169.4	202.6	205.4
87.5°	10.0	70.7	147.5	176.0	178.4
90°	0.5	59.8	129.5	150.9	150.9
92.5°	0.5	52.2	114.8	130.9	131.9
95°	0.9	46.0	102.0	112.9	112.0
97.5°	0.9	41.7	90.1	99.1	96.3
100°	0.9	37.9	81.1	87.3	84.4
102.5°	0.9	33.7	74.0	77.8	74.5
105°	0.9	28.0	68.3	71.2	68.3
107.5°	0.9	22.3	62.1	65.9	63.1
110°	0.9	16.6	56.5	61.2	58.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	10.4	51.2	56.9	55.5
115°	0.9	3.8	46.0	53.6	52.2
117.5°	0.5	1.9	39.4	49.8	49.3
120°	0.5	1.4	33.2	46.5	46.5
122.5°	0.5	1.4	27.5	41.7	43.6
125°	0.5	0.9	20.9	37.0	39.4
127.5°	0.5	0.9	14.7	32.3	35.1
130°	0.5	0.9	7.6	26.6	30.4
132.5°	0.5	0.9	0.9	20.9	25.1
135°	0.9	0.9	0.9	15.2	19.9
137.5°	0.9	0.9	0.9	8.1	14.2
140°	0.9	0.9	0.5	0.5	6.6
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)