

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: P290389

Luminaire Tested: **8SSRK-SLN-40-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290389
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-L935-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3508.6 lumens
Efficiency: N/A
Efficacy: 129.9 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

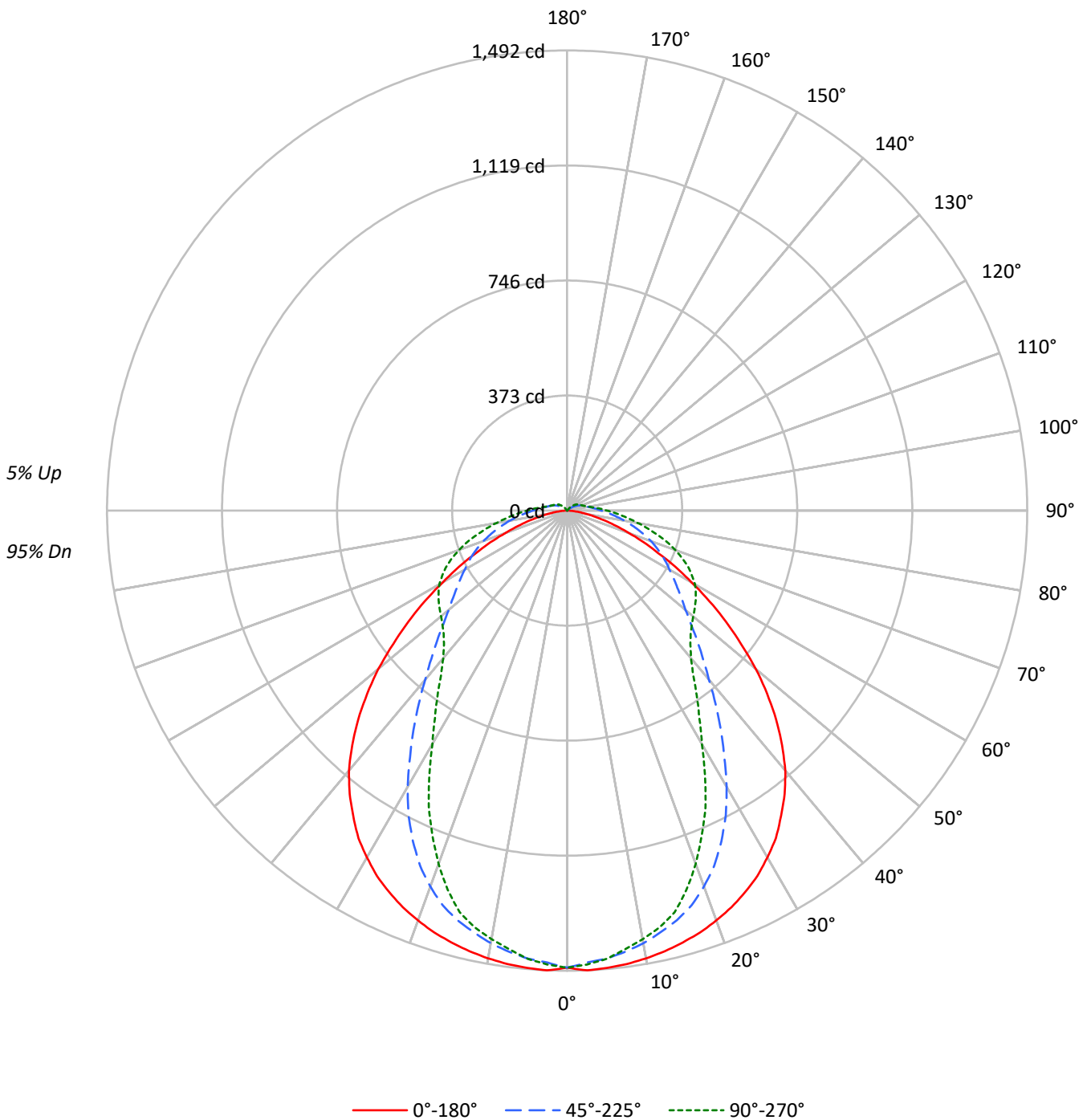
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	47856	47856	47856
5°	48158	37847	35040
10°	48165	31110	27131
15°	48189	26089	21748
20°	48235	21905	17056
25°	48174	18120	13201
30°	47834	14601	9851
35°	46982	11455	7597
40°	45593	8907	6044
45°	42883	7076	5172
50°	39181	5735	4650
55°	34372	4853	4270
60°	29060	4181	3900
65°	23866	3631	3457
70°	19111	3092	2933
75°	14690	2552	2369
80°	10577	2047	1830
85°	6673	1600	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	4.0
10°-20°	390.1	11.1
20°-30°	548.5	15.6
30°-40°	574.4	16.4
40°-50°	520.1	14.8
50°-60°	442.6	12.6
60°-70°	350.0	10.0
70°-80°	238.3	6.8
80°-90°	136.0	3.9
90°-100°	75.4	2.1
100°-110°	46.1	1.3
110°-120°	28.0	0.8
120°-130°	15.2	0.4
130°-140°	4.6	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°	1077.8	30.7
0°-40°	1652.2	47.1
0°-60°	2614.9	74.5
0°-90°	3339.2	95.2
90°-120°	149.5	4.3
90°-150°	169.4	4.8
90°-180°	169.0	4.8
0°-180°	3508.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1488	1479	1458	1464	1459	142
15°	1450	1422	1375	1361	1348	410
25°	1365	1298	1183	1091	1062	629
35°	1209	1073	869	760	732	756
45°	959	761	596	564	566	736
55°	629	480	436	486	509	562
65°	326	283	337	412	433	329
75°	127	154	238	292	302	138
85°	22	73	145	173	176	27
90°	0	51	111	129	129	1
95°	1	39	87	96	96	1
105°	1	24	58	61	58	1
115°	1	3	39	46	45	1
125°	0	1	18	32	34	0
135°	1	1	1	13	17	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°	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1492.1	1484.0	1467.0	1477.9	1473.0
5°	1488.4	1479.1	1458.0	1464.5	1459.3
7.5°	1482.8	1470.2	1443.0	1445.1	1434.9
10°	1474.3	1458.0	1424.4	1420.7	1411.0
12.5°	1463.3	1441.0	1400.5	1395.6	1384.3
15°	1449.5	1422.0	1374.9	1360.8	1347.8
17.5°	1434.1	1399.3	1342.1	1310.5	1288.2
20°	1414.3	1370.1	1297.1	1251.3	1218.9
22.5°	1392.0	1338.5	1246.4	1177.5	1140.7
25°	1365.2	1297.5	1182.8	1091.2	1061.6
27.5°	1335.6	1255.0	1113.5	1006.5	967.2
30°	1298.3	1201.0	1034.4	919.7	874.3
32.5°	1259.4	1143.1	948.5	833.0	797.7
35°	1209.2	1073.0	869.1	760.4	732.5
37.5°	1158.5	998.0	790.0	695.6	670.9
40°	1100.5	922.2	715.4	642.1	624.6
42.5°	1031.6	845.2	652.2	597.1	591.0
45°	958.6	761.2	595.5	564.2	566.3
47.5°	879.2	685.0	544.0	537.9	548.0
50°	799.3	614.1	501.0	518.0	533.8
52.5°	710.6	545.6	467.0	501.8	520.9
55°	628.7	479.9	436.2	486.4	509.1
57.5°	547.2	424.0	409.4	470.6	494.5
60°	466.2	372.9	383.5	453.6	478.7
62.5°	395.6	324.3	360.8	434.5	456.4
65°	326.3	283.3	337.3	411.8	433.3
67.5°	268.7	246.9	313.7	384.7	404.1
70°	214.0	212.4	288.6	354.7	372.5
72.5°	167.0	181.2	262.3	323.5	340.5
75°	126.9	154.4	237.5	291.9	302.4
77.5°	92.8	129.3	212.4	259.8	267.1
80°	63.6	107.4	188.5	227.8	233.1
82.5°	40.1	88.8	165.4	199.0	202.7
85°	22.3	73.4	144.7	173.1	175.5
87.5°	8.5	60.4	126.1	150.4	152.4
90°	0.4	51.1	110.7	128.9	128.9
92.5°	0.4	44.6	98.1	111.9	112.7
95°	0.8	39.3	87.1	96.5	95.7
97.5°	0.8	35.7	77.0	84.7	82.3
100°	0.8	32.4	69.3	74.6	72.2
102.5°	0.8	28.8	63.2	66.5	63.6
105°	0.8	23.9	58.4	60.8	58.4
107.5°	0.8	19.1	53.1	56.3	53.9
110°	0.8	14.2	48.2	52.3	50.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	8.9	43.8	48.6	47.4
115°	0.8	3.2	39.3	45.8	44.6
117.5°	0.4	1.6	33.6	42.6	42.2
120°	0.4	1.2	28.4	39.7	39.7
122.5°	0.4	1.2	23.5	35.7	37.3
125°	0.4	0.8	17.8	31.6	33.6
127.5°	0.4	0.8	12.6	27.6	30.0
130°	0.4	0.8	6.5	22.7	25.9
132.5°	0.4	0.8	0.8	17.8	21.5
135°	0.8	0.8	0.8	13.0	17.0
137.5°	0.8	0.8	0.8	6.9	12.2
140°	0.8	0.8	0.4	0.4	5.7
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)