

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: P290394

Luminaire Tested: **8SSRK-SLN-40-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290394
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-L840-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4247.8 lumens
Efficiency: N/A
Efficacy: 157.2 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

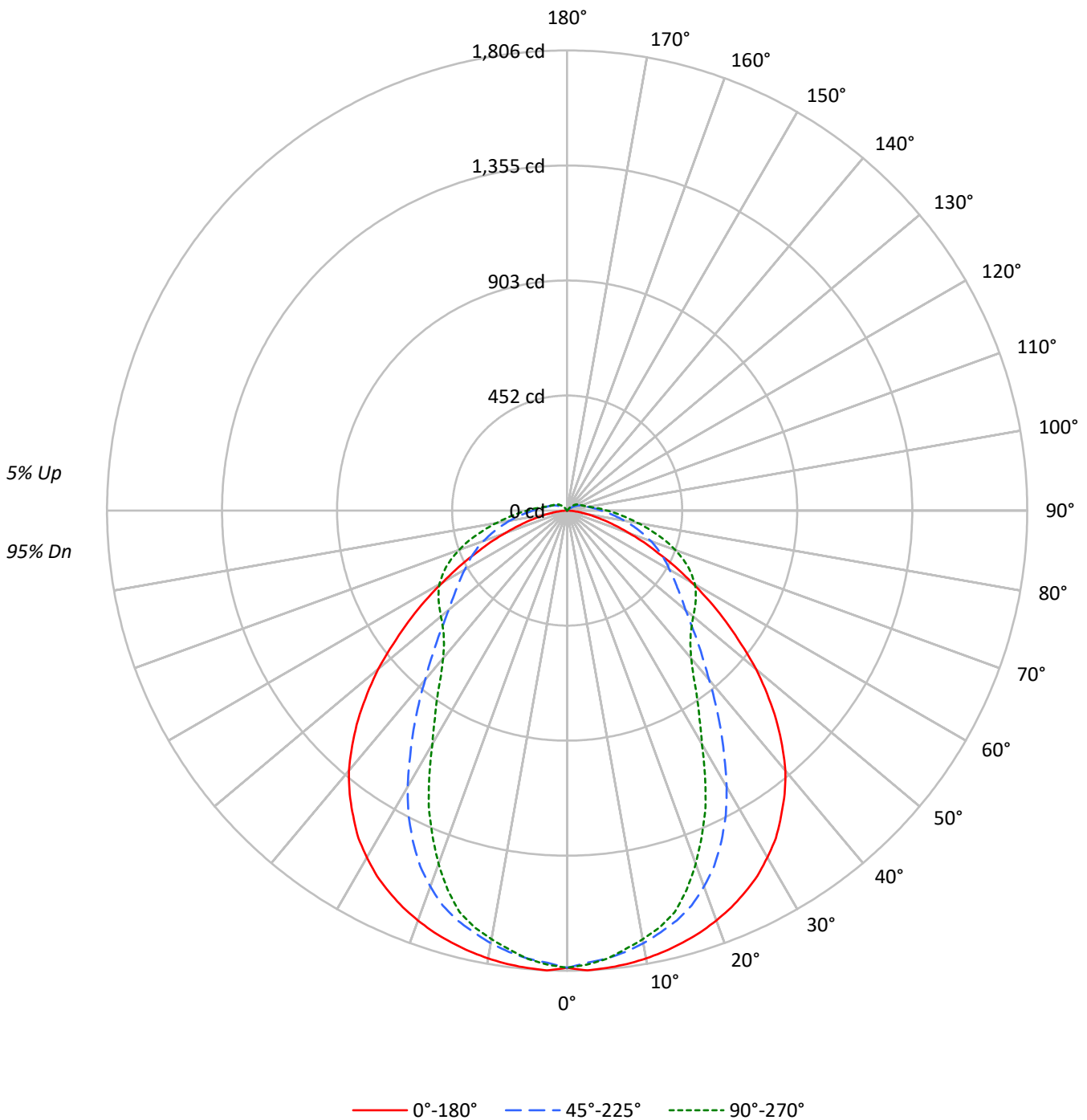
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	57934	57934	57934
5°	58305	45821	42422
10°	58309	37664	32847
15°	58342	31586	26329
20°	58395	26521	20649
25°	58322	21937	15983
30°	57911	17679	11926
35°	56878	13867	9198
40°	55200	10785	7317
45°	51920	8566	6262
50°	47436	6944	5630
55°	41611	5874	5170
60°	35181	5060	4721
65°	28890	4396	4185
70°	23138	3744	3551
75°	17781	3090	2868
80°	12806	2478	2216
85°	8080	1938	1685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	4.0
10°-20°	472.3	11.1
20°-30°	664.1	15.6
30°-40°	695.4	16.4
40°-50°	629.6	14.8
50°-60°	535.9	12.6
60°-70°	423.7	10.0
70°-80°	288.5	6.8
80°-90°	164.6	3.9
90°-100°	91.3	2.1
100°-110°	55.8	1.3
110°-120°	33.9	0.8
120°-130°	18.4	0.4
130°-140°	5.6	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°	1304.8	30.7
0°-40°	2000.3	47.1
0°-60°	3165.8	74.5
0°-90°	4042.7	95.2
90°-120°	181.0	4.3
90°-150°	205.1	4.8
90°-180°	205.0	4.8
0°-180°	4247.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1794	1794	1794	1794	1794	
5°	1802	1791	1765	1773	1767	171
15°	1755	1722	1665	1647	1632	496
25°	1653	1571	1432	1321	1285	762
35°	1464	1299	1052	921	887	915
45°	1161	922	721	683	686	891
55°	761	581	528	589	616	681
65°	395	343	408	499	525	398
75°	154	187	288	353	366	168
85°	27	89	175	210	212	32
90°	0	62	134	156	156	2
95°	1	48	106	117	116	1
105°	1	29	71	74	71	1
115°	1	4	48	56	54	1
125°	0	1	22	38	41	0
135°	1	1	1	16	21	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°	1794.1	1794.1	1794.1	1794.1	1794.1
2.5°	1806.4	1796.6	1776.0	1789.2	1783.4
5°	1802.0	1790.7	1765.2	1773.0	1766.7
7.5°	1795.1	1779.9	1747.0	1749.5	1737.2
10°	1784.8	1765.2	1724.5	1720.0	1708.3
12.5°	1771.6	1744.6	1695.5	1689.6	1675.9
15°	1754.9	1721.5	1664.6	1647.4	1631.7
17.5°	1736.2	1694.0	1624.8	1586.6	1559.6
20°	1712.2	1658.7	1570.4	1514.9	1475.7
22.5°	1685.2	1620.4	1509.0	1425.6	1380.9
25°	1652.8	1570.9	1432.0	1321.1	1285.3
27.5°	1617.0	1519.3	1348.1	1218.5	1170.9
30°	1571.8	1454.1	1252.4	1113.5	1058.5
32.5°	1524.7	1383.9	1148.3	1008.5	965.8
35°	1463.9	1299.0	1052.1	920.6	886.8
37.5°	1402.5	1208.2	956.5	842.1	812.2
40°	1332.4	1116.4	866.2	777.3	756.2
42.5°	1248.9	1023.2	789.6	722.9	715.5
45°	1160.6	921.6	720.9	683.1	685.6
47.5°	1064.4	829.4	658.6	651.2	663.5
50°	967.7	743.5	606.6	627.2	646.3
52.5°	860.3	660.5	565.3	607.5	630.6
55°	761.1	581.0	528.0	588.9	616.4
57.5°	662.5	513.3	495.6	569.8	598.7
60°	564.4	451.5	464.2	549.1	579.6
62.5°	479.0	392.6	436.8	526.1	552.6
65°	395.0	343.0	408.3	498.6	524.6
67.5°	325.4	298.9	379.8	465.7	489.3
70°	259.1	257.1	349.4	429.4	451.0
72.5°	202.2	219.4	317.5	391.6	412.2
75°	153.6	187.0	287.6	353.3	366.1
77.5°	112.4	156.5	257.1	314.6	323.4
80°	77.0	130.0	228.2	275.8	282.2
82.5°	48.6	107.5	200.2	241.0	245.4
85°	27.0	88.8	175.2	209.5	212.5
87.5°	10.3	73.1	152.6	182.1	184.5
90°	0.5	61.8	134.0	156.1	156.1
92.5°	0.5	54.0	118.8	135.4	136.4
95°	1.0	47.6	105.5	116.8	115.8
97.5°	1.0	43.2	93.2	102.6	99.6
100°	1.0	39.3	83.9	90.3	87.4
102.5°	1.0	34.8	76.6	80.5	77.0
105°	1.0	29.0	70.7	73.6	70.7
107.5°	1.0	23.1	64.3	68.2	65.3
110°	1.0	17.2	58.4	63.3	60.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	10.8	53.0	58.9	57.4
115°	1.0	3.9	47.6	55.5	54.0
117.5°	0.5	2.0	40.7	51.5	51.0
120°	0.5	1.5	34.4	48.1	48.1
122.5°	0.5	1.5	28.5	43.2	45.1
125°	0.5	1.0	21.6	38.3	40.7
127.5°	0.5	1.0	15.2	33.4	36.3
130°	0.5	1.0	7.9	27.5	31.4
132.5°	0.5	1.0	1.0	21.6	26.0
135°	1.0	1.0	1.0	15.7	20.6
137.5°	1.0	1.0	1.0	8.3	14.7
140°	1.0	1.0	0.5	0.5	6.9
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)