

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: P290398

Luminaire Tested: **8SSRK-SLN-50-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290398
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-50-L940-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4523.9 lumens
Efficiency: N/A
Efficacy: 132.3 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

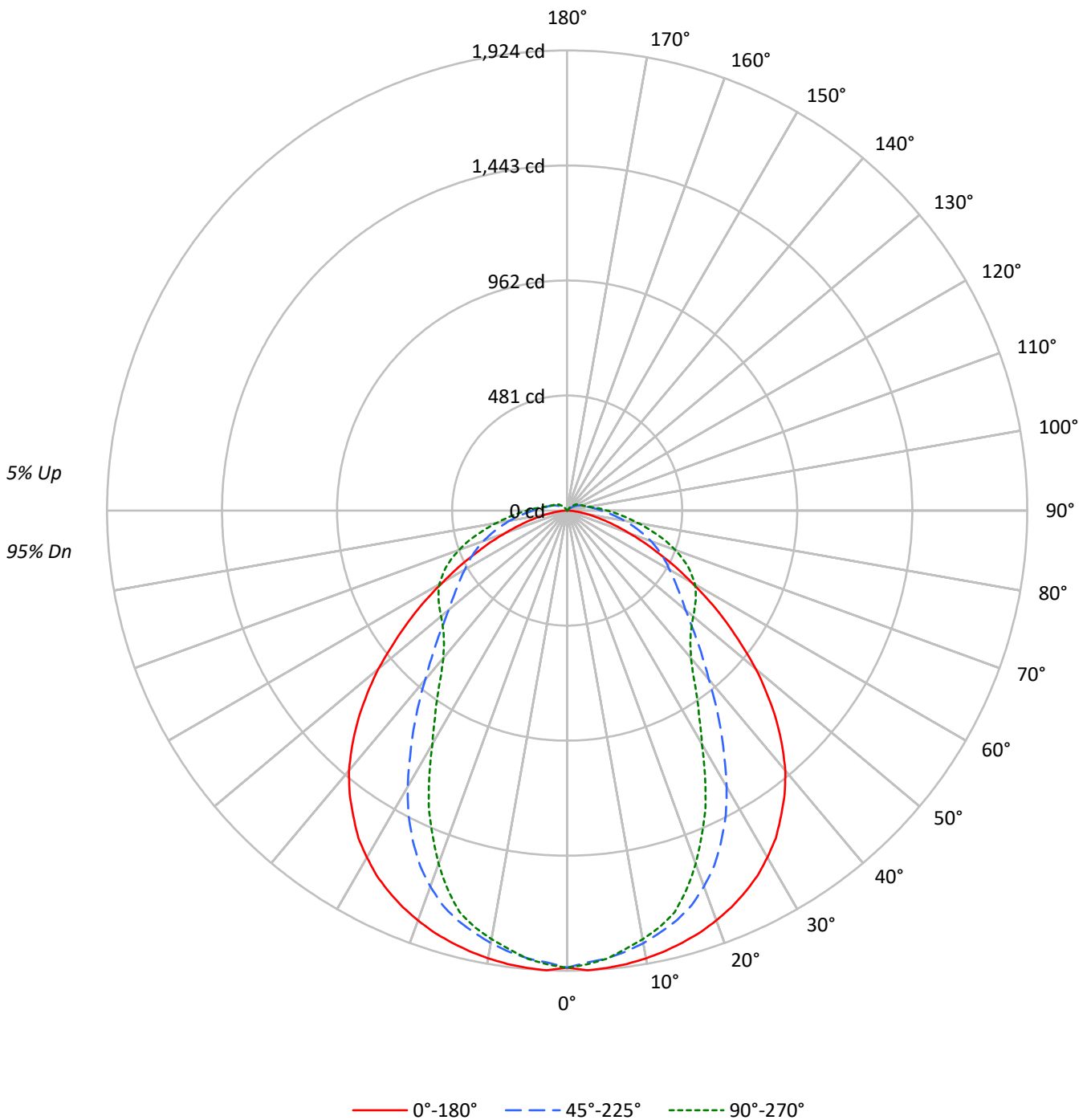
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									70									30									10									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	61703	61703	61703
5°	62097	48801	45181
10°	62102	40112	34983
15°	62135	33639	28041
20°	62191	28245	21991
25°	62116	23364	17021
30°	61680	18828	12702
35°	60577	14770	9795
40°	58788	11486	7793
45°	55297	9124	6668
50°	50524	7395	5996
55°	44317	6257	5506
60°	37469	5389	5029
65°	30770	4681	4457
70°	24647	3987	3782
75°	18939	3291	3054
80°	13654	2639	2359
85°	8588	2064	1795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.4	4.0
10°-20°	503.0	11.1
20°-30°	707.3	15.6
30°-40°	740.7	16.4
40°-50°	670.6	14.8
50°-60°	570.7	12.6
60°-70°	451.3	10.0
70°-80°	307.3	6.8
80°-90°	175.3	3.9
90°-100°	97.2	2.1
100°-110°	59.4	1.3
110°-120°	36.1	0.8
120°-130°	19.6	0.4
130°-140°	5.9	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°	1389.7	30.7
0°-40°	2130.4	47.1
0°-60°	3371.7	74.5
0°-90°	4305.5	95.2
90°-120°	192.8	4.3
90°-150°	218.4	4.8
90°-180°	218.0	4.8
0°-180°	4523.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1911	1911	1911	1911	1911	
5°	1919	1907	1880	1888	1882	183
15°	1869	1834	1773	1755	1738	528
25°	1760	1673	1525	1407	1369	811
35°	1559	1384	1121	980	944	974
45°	1236	982	768	728	730	949
55°	811	619	562	627	656	725
65°	421	365	435	531	559	424
75°	164	199	306	376	390	178
85°	29	95	187	223	226	35
90°	0	66	143	166	166	2
95°	1	51	112	124	123	1
105°	1	31	75	78	75	1
115°	1	4	51	59	58	1
125°	0	1	23	41	43	0
135°	1	1	1	17	22	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°	1910.8	1910.8	1910.8	1910.8	1910.8
2.5°	1923.9	1913.4	1891.5	1905.6	1899.3
5°	1919.2	1907.2	1880.0	1888.4	1881.6
7.5°	1911.9	1895.7	1860.7	1863.3	1850.2
10°	1900.9	1880.0	1836.6	1831.9	1819.4
12.5°	1886.8	1858.0	1805.8	1799.5	1784.9
15°	1869.0	1833.5	1772.8	1754.6	1737.8
17.5°	1849.2	1804.2	1730.5	1689.7	1661.0
20°	1823.5	1766.6	1672.5	1613.4	1571.6
22.5°	1794.8	1725.8	1607.2	1518.3	1470.8
25°	1760.3	1673.0	1525.1	1407.0	1368.8
27.5°	1722.1	1618.1	1435.7	1297.8	1247.1
30°	1674.1	1548.6	1333.8	1185.9	1127.4
32.5°	1623.9	1473.9	1223.0	1074.1	1028.6
35°	1559.1	1383.5	1120.6	980.5	944.4
37.5°	1493.7	1286.8	1018.7	896.9	865.0
40°	1419.0	1189.0	922.5	827.9	805.4
42.5°	1330.2	1089.7	841.0	769.9	762.0
45°	1236.1	981.5	767.8	727.5	730.1
47.5°	1133.6	883.3	701.4	693.6	706.6
50°	1030.7	791.8	646.0	668.0	688.3
52.5°	916.2	703.5	602.1	647.0	671.6
55°	810.6	618.8	562.4	627.2	656.5
57.5°	705.6	546.7	527.9	606.8	637.6
60°	601.1	480.8	494.4	584.9	617.3
62.5°	510.1	418.1	465.2	560.3	588.5
65°	420.7	365.3	434.8	531.0	558.7
67.5°	346.5	318.3	404.5	496.0	521.1
70°	276.0	273.9	372.1	457.3	480.3
72.5°	215.3	233.6	338.2	417.1	439.0
75°	163.6	199.1	306.3	376.3	389.9
77.5°	119.7	166.7	273.9	335.0	344.4
80°	82.1	138.5	243.0	293.7	300.5
82.5°	51.7	114.5	213.2	256.6	261.3
85°	28.7	94.6	186.6	223.2	226.3
87.5°	11.0	77.9	162.5	193.9	196.5
90°	0.5	65.9	142.7	166.2	166.2
92.5°	0.5	57.5	126.5	144.3	145.3
95°	1.0	50.7	112.4	124.4	123.3
97.5°	1.0	46.0	99.3	109.2	106.1
100°	1.0	41.8	89.4	96.2	93.0
102.5°	1.0	37.1	81.5	85.7	82.1
105°	1.0	30.8	75.3	78.4	75.3
107.5°	1.0	24.6	68.5	72.6	69.5
110°	1.0	18.3	62.2	67.4	64.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	11.5	56.4	62.7	61.2
115°	1.0	4.2	50.7	59.1	57.5
117.5°	0.5	2.1	43.4	54.9	54.4
120°	0.5	1.6	36.6	51.2	51.2
122.5°	0.5	1.6	30.3	46.0	48.1
125°	0.5	1.0	23.0	40.8	43.4
127.5°	0.5	1.0	16.2	35.5	38.7
130°	0.5	1.0	8.4	29.3	33.4
132.5°	0.5	1.0	1.0	23.0	27.7
135°	1.0	1.0	1.0	16.7	22.0
137.5°	1.0	1.0	1.0	8.9	15.7
140°	1.0	1.0	0.5	0.5	7.3
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)