

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: P290403

Luminaire Tested: **8SSRK-SLN-50-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290403  
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-L850-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5347.4 lumens  
Efficiency: N/A  
Efficacy: 156.4 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

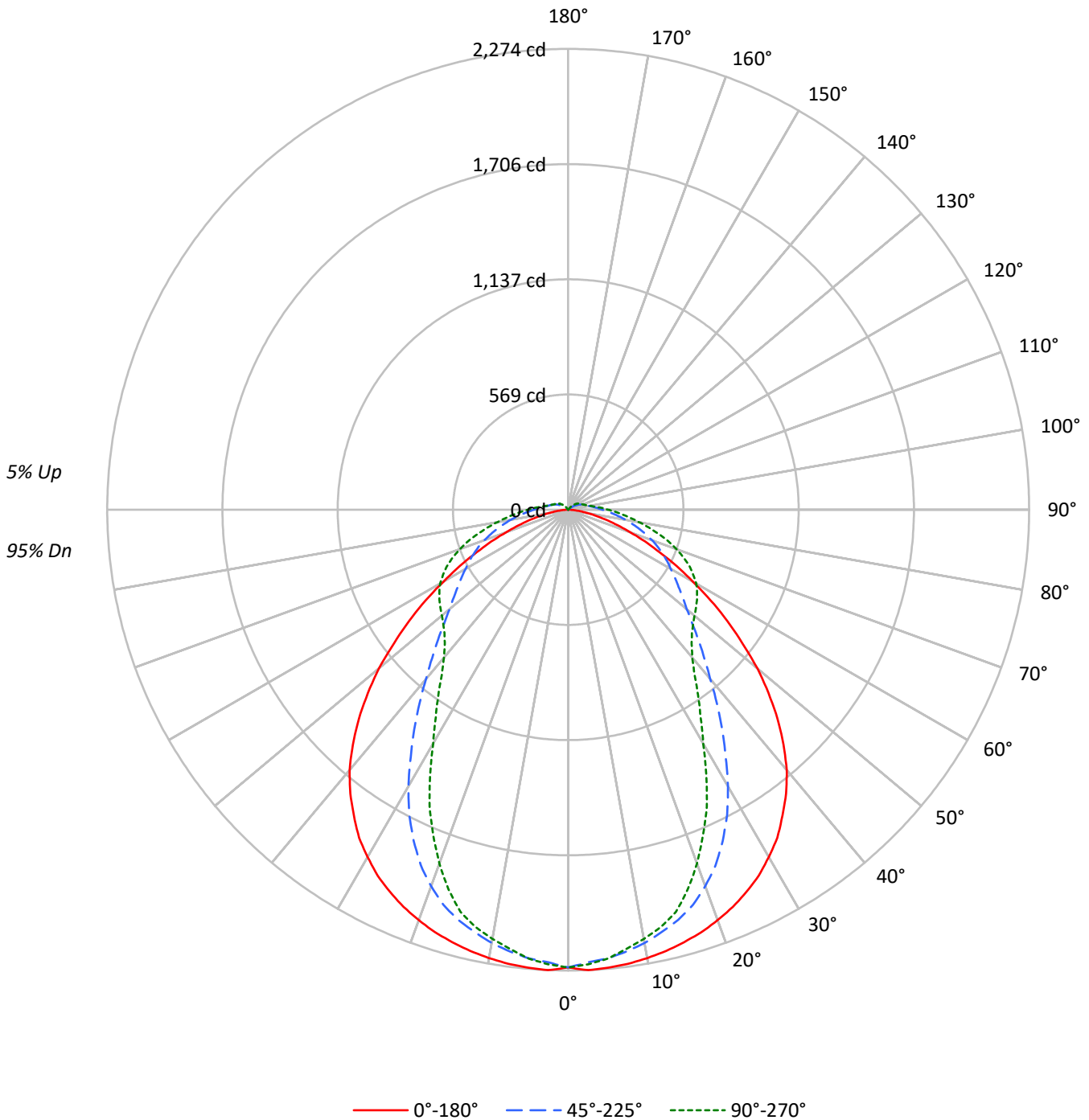
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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°	72937	72937	72937
5°	73399	57684	53405
10°	73405	47414	41350
15°	73445	39764	33147
20°	73514	33386	25994
25°	73421	27616	20120
30°	72907	22255	15014
35°	71604	17459	11579
40°	69489	13576	9212
45°	65362	10784	7883
50°	59721	8742	7087
55°	52387	7395	6508
60°	44288	6371	5943
65°	36373	5534	5268
70°	29130	4713	4471
75°	22389	3890	3610
80°	16132	3120	2789
85°	10174	2440	2121



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.1	4.0
10°-20°	594.5	11.1
20°-30°	836.0	15.6
30°-40°	875.5	16.4
40°-50°	792.6	14.8
50°-60°	674.6	12.6
60°-70°	533.4	10.0
70°-80°	363.2	6.8
80°-90°	207.3	3.9
90°-100°	114.9	2.1
100°-110°	70.2	1.3
110°-120°	42.7	0.8
120°-130°	23.1	0.4
130°-140°	7.0	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1642.7	30.7
0°-40°	2518.2	47.1
0°-60°	3985.4	74.5
0°-90°	5089.3	95.2
90°-120°	227.8	4.3
90°-150°	258.1	4.8
90°-180°	258.0	4.8
0°-180°	5347.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2259	2259	2259	2259	2259	
5°	2268	2254	2222	2232	2224	216
15°	2209	2167	2096	2074	2054	624
25°	2081	1978	1803	1663	1618	959
35°	1843	1635	1325	1159	1116	1152
45°	1461	1160	908	860	863	1122
55°	958	732	665	741	776	857
65°	497	432	514	628	660	501
75°	193	235	362	445	461	211
85°	34	112	221	264	268	41
90°	1	78	169	196	196	2
95°	1	60	133	147	146	1
105°	1	36	89	93	89	1
115°	1	5	60	70	68	1
125°	1	1	27	48	51	1
135°	1	1	1	20	26	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°	2258.7	2258.7	2258.7	2258.7	2258.7
2.5°	2274.1	2261.7	2235.8	2252.5	2245.1
5°	2268.5	2254.3	2222.2	2232.1	2224.1
7.5°	2259.9	2240.7	2199.4	2202.4	2187.0
10°	2246.9	2222.2	2170.9	2165.4	2150.5
12.5°	2230.2	2196.3	2134.5	2127.1	2109.8
15°	2209.2	2167.2	2095.6	2073.9	2054.2
17.5°	2185.8	2132.6	2045.5	1997.3	1963.4
20°	2155.5	2088.1	1976.9	1907.1	1857.7
22.5°	2121.5	2040.0	1899.7	1794.7	1738.5
25°	2080.7	1977.6	1802.7	1663.1	1618.0
27.5°	2035.6	1912.7	1697.1	1534.0	1474.1
30°	1978.8	1830.5	1576.6	1401.8	1332.6
32.5°	1919.5	1742.2	1445.6	1269.6	1215.8
35°	1842.9	1635.3	1324.6	1159.0	1116.4
37.5°	1765.7	1521.0	1204.1	1060.1	1022.5
40°	1677.3	1405.5	1090.4	978.6	952.0
42.5°	1572.3	1288.1	994.0	910.0	900.7
45°	1461.1	1160.2	907.5	860.0	863.1
47.5°	1340.0	1044.1	829.1	819.8	835.3
50°	1218.3	936.0	763.6	789.5	813.6
52.5°	1083.0	831.6	711.7	764.8	793.9
55°	958.2	731.5	664.7	741.4	776.0
57.5°	834.0	646.2	624.0	717.3	753.7
60°	710.5	568.4	584.4	691.3	729.6
62.5°	603.0	494.2	549.8	662.3	695.6
65°	497.3	431.8	514.0	627.7	660.4
67.5°	409.6	376.2	478.2	586.3	615.9
70°	326.2	323.7	439.9	540.6	567.8
72.5°	254.5	276.2	399.7	493.0	518.9
75°	193.4	235.4	362.0	444.8	460.9
77.5°	141.5	197.1	323.7	396.0	407.1
80°	97.0	163.7	287.3	347.2	355.2
82.5°	61.2	135.3	252.1	303.3	308.9
85°	34.0	111.8	220.6	263.8	267.5
87.5°	13.0	92.1	192.1	229.2	232.3
90°	0.6	77.8	168.7	196.5	196.5
92.5°	0.6	68.0	149.5	170.5	171.7
95°	1.2	59.9	132.8	147.0	145.8
97.5°	1.2	54.4	117.4	129.1	125.4
100°	1.2	49.4	105.6	113.7	110.0
102.5°	1.2	43.9	96.4	101.3	97.0
105°	1.2	36.4	89.0	92.7	89.0
107.5°	1.2	29.0	80.9	85.9	82.2
110°	1.2	21.6	73.5	79.7	76.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	13.6	66.7	74.1	72.3
115°	1.2	4.9	59.9	69.8	68.0
117.5°	0.6	2.5	51.3	64.9	64.3
120°	0.6	1.9	43.2	60.5	60.5
122.5°	0.6	1.9	35.8	54.4	56.8
125°	0.6	1.2	27.2	48.2	51.3
127.5°	0.6	1.2	19.2	42.0	45.7
130°	0.6	1.2	9.9	34.6	39.5
132.5°	0.6	1.2	1.2	27.2	32.7
135°	1.2	1.2	1.2	19.8	25.9
137.5°	1.2	1.2	1.2	10.5	18.5
140°	1.2	1.2	0.6	0.6	8.6
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)