

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: P290310

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290310  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-SLC-50-L940-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 90 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

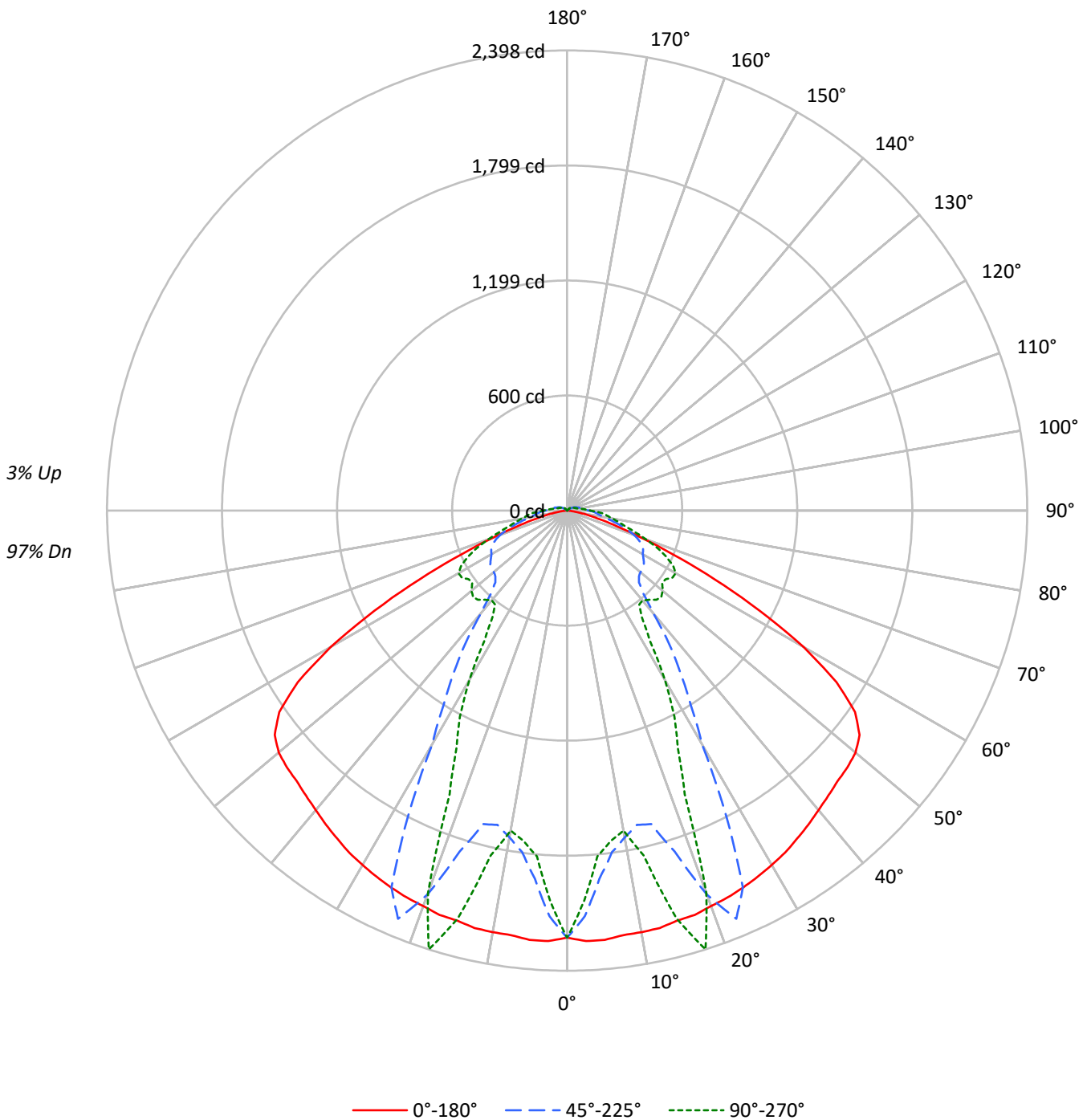
Lumens per Lamp: N/A  
Luminaire Lumens: 4679.5 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

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	109	109	109	104	104	104	99	99	99	97
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	81
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	69
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	59
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	51
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	45
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	40
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	36
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	32
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	29
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	71865	71865	71865
5°	72649	49982	43435
10°	72876	37760	32551
15°	73535	32102	35488
20°	74796	35976	29663
25°	76502	33188	16944
30°	78566	19875	11478
35°	81127	13537	7026
40°	84404	8707	5907
45°	89175	6298	6005
50°	96152	5708	5664
55°	100099	5437	5239
60°	88682	4962	5322
65°	62082	4670	4553
70°	36078	3971	3424
75°	20513	2999	2436
80°	11642	2118	1884
85°	5626	1700	1542



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.9	4.0
10°-20°	555.3	11.9
20°-30°	817.3	17.5
30°-40°	798.4	17.1
40°-50°	661.9	14.1
50°-60°	607.7	13.0
60°-70°	481.5	10.3
70°-80°	267.4	5.7
80°-90°	141.6	3.0
90°-100°	74.5	1.6
100°-110°	44.8	1.0
110°-120°	25.6	0.5
120°-130°	14.1	0.3
130°-140°	4.4	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°	1557.4	33.3
0°-40°	2355.9	50.3
0°-60°	3625.4	77.5
0°-90°	4516.0	96.5
90°-120°	144.9	3.1
90°-150°	163.5	3.5
90°-180°	164.0	3.5
0°-180°	4679.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2226	2226	2226	2226	2226	
5°	2245	2119	1926	1843	1809	213
15°	2212	1767	1692	2072	2199	627
25°	2168	1687	2166	1477	1363	1002
35°	2088	2013	1027	734	677	1310
45°	1993	910	530	605	658	1546
55°	1831	406	489	585	625	1590
65°	849	263	434	550	571	859
75°	177	160	279	298	311	210
85°	19	79	154	187	194	26
90°	0	58	112	123	122	1
95°	1	46	87	91	87	1
105°	1	30	61	53	48	1
115°	1	4	40	38	35	1
125°	1	1	18	29	29	1
135°	1	1	1	12	16	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°	2225.5	2225.5	2225.5	2225.5	2225.5
2.5°	2245.3	2205.1	2115.7	2055.1	2034.7
5°	2245.3	2119.4	1925.5	1843.4	1808.9
7.5°	2231.7	2010.7	1795.3	1759.8	1737.3
10°	2230.7	1894.6	1728.9	1699.2	1692.9
12.5°	2228.1	1830.3	1677.7	1783.3	1840.3
15°	2211.9	1766.6	1691.8	2071.8	2199.3
17.5°	2209.3	1719.0	1863.3	2344.1	2397.9
20°	2193.1	1681.4	2130.3	2309.6	2119.9
22.5°	2182.6	1655.3	2302.3	1858.0	1599.9
25°	2168.0	1686.6	2166.4	1477.0	1362.6
27.5°	2151.3	1787.5	1795.8	1285.7	1209.9
30°	2132.4	1945.3	1408.0	1123.7	1018.7
32.5°	2113.6	2060.8	1198.5	922.5	799.1
35°	2088.0	2013.3	1027.0	733.8	677.4
37.5°	2064.0	1793.8	870.7	633.5	617.3
40°	2037.3	1445.1	699.3	593.7	610.5
42.5°	2014.8	1145.7	587.5	589.6	630.8
45°	1993.4	910.5	530.0	604.7	657.5
47.5°	1980.9	723.9	507.0	623.0	665.3
50°	1961.5	580.1	498.6	626.7	650.2
52.5°	1920.8	478.2	496.0	607.3	623.5
55°	1830.9	405.6	488.7	585.4	624.6
57.5°	1665.2	360.6	472.0	590.1	650.2
60°	1422.7	325.6	455.2	605.2	653.3
62.5°	1132.1	293.7	446.3	592.7	622.5
65°	848.8	263.4	433.8	550.4	570.7
67.5°	594.3	237.3	405.6	497.6	508.5
70°	404.0	212.2	370.6	430.1	434.8
72.5°	271.8	187.1	327.2	360.6	367.9
75°	177.2	160.5	279.1	297.9	311.0
77.5°	112.9	136.4	231.5	255.6	272.3
80°	70.0	112.9	195.0	229.4	239.9
82.5°	39.2	94.1	168.8	204.9	210.6
85°	18.8	78.9	153.7	186.6	194.4
87.5°	4.7	66.9	135.4	154.7	154.7
90°	0.5	57.5	112.4	122.8	121.8
92.5°	0.5	50.7	97.7	104.5	102.4
95°	1.0	45.5	87.3	90.9	86.8
97.5°	1.0	42.9	80.5	77.9	71.6
100°	1.0	39.7	73.2	66.4	59.6
102.5°	1.0	35.5	66.9	58.5	52.8
105°	1.0	30.3	61.2	52.8	47.6
107.5°	1.0	24.0	54.9	48.1	43.9
110°	1.0	17.2	49.1	44.4	41.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	10.5	44.4	41.3	38.7
115°	1.0	3.7	39.7	37.6	35.0
117.5°	1.0	1.6	35.0	36.1	32.9
120°	1.0	1.6	29.3	34.0	31.4
122.5°	1.0	1.6	24.0	31.9	30.3
125°	1.0	1.0	18.3	29.3	28.7
127.5°	1.0	1.0	12.5	25.6	26.7
130°	1.0	1.0	6.3	20.9	23.5
132.5°	1.0	1.0	1.0	17.2	19.3
135°	1.0	1.0	1.0	12.5	15.7
137.5°	1.0	1.0	1.0	6.3	11.5
140°	1.0	1.0	1.0	1.0	4.7
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)