

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: P290309

Luminaire Tested: **8SSRK-SLC-50-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290309  
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-L935-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 90 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

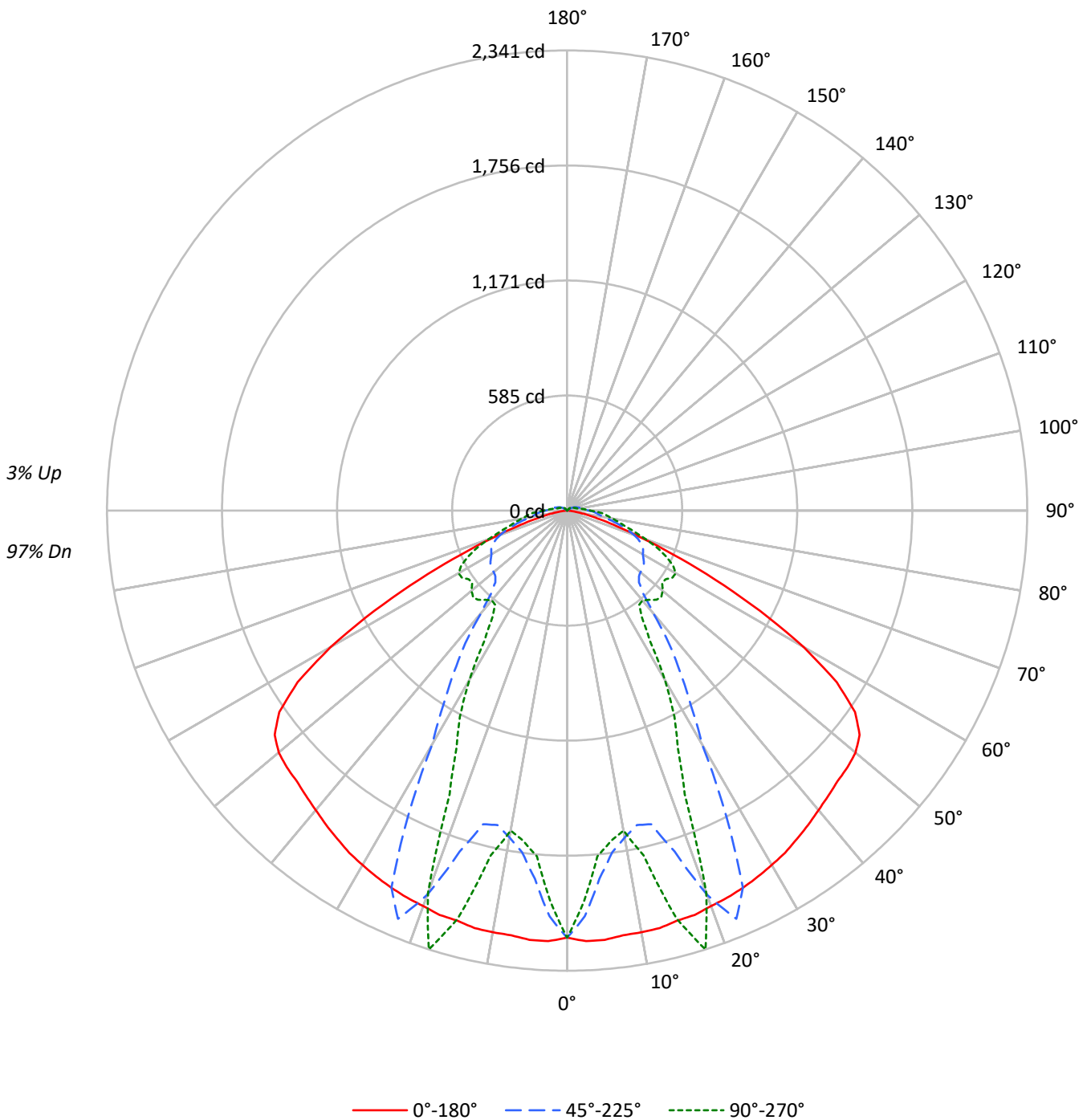
Lumens per Lamp: N/A  
Luminaire Lumens: 4568.8 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input 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°	70163	70163	70163
5°	70931	48798	42407
10°	71151	36869	31780
15°	71796	31343	34649
20°	73026	35127	28962
25°	74692	32404	16543
30°	76709	19405	11206
35°	79207	13216	6859
40°	82407	8501	5767
45°	87068	6148	5864
50°	93877	5573	5530
55°	97731	5308	5114
60°	86582	4846	5196
65°	60611	4559	4445
70°	35230	3877	3344
75°	20027	2928	2378
80°	11376	2067	1839
85°	5506	1659	1505



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.5	4.0
10°-20°	542.1	11.9
20°-30°	798.0	17.5
30°-40°	779.5	17.1
40°-50°	646.2	14.1
50°-60°	593.3	13.0
60°-70°	470.1	10.3
70°-80°	261.1	5.7
80°-90°	138.3	3.0
90°-100°	72.7	1.6
100°-110°	43.8	1.0
110°-120°	25.0	0.5
120°-130°	13.8	0.3
130°-140°	4.3	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°	1520.6	33.3
0°-40°	2300.2	50.3
0°-60°	3539.7	77.5
0°-90°	4409.2	96.5
90°-120°	141.4	3.1
90°-150°	159.7	3.5
90°-180°	160.0	3.5
0°-180°	4568.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2173	2173	2173	2173	2173	
5°	2192	2069	1880	1800	1766	208
15°	2160	1725	1652	2023	2147	613
25°	2117	1647	2115	1442	1330	978
35°	2039	1966	1003	716	661	1279
45°	1946	889	517	590	642	1509
55°	1788	396	477	572	610	1552
65°	829	257	424	537	557	839
75°	173	157	272	291	304	205
85°	18	77	150	182	190	25
90°	0	56	110	120	119	1
95°	1	44	85	89	85	1
105°	1	30	60	52	46	1
115°	1	4	39	37	34	1
125°	1	1	18	29	28	1
135°	1	1	1	12	15	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°	2172.8	2172.8	2172.8	2172.8	2172.8
2.5°	2192.2	2152.9	2065.7	2006.5	1986.6
5°	2192.2	2069.3	1879.9	1799.8	1766.1
7.5°	2179.0	1963.1	1752.9	1718.2	1696.2
10°	2177.9	1849.8	1688.1	1659.0	1652.8
12.5°	2175.4	1787.1	1638.1	1741.1	1796.8
15°	2159.6	1724.8	1651.8	2022.8	2147.3
17.5°	2157.0	1678.4	1819.2	2288.7	2341.2
20°	2141.2	1641.6	2080.0	2255.0	2069.8
22.5°	2131.0	1616.1	2247.9	1814.1	1562.0
25°	2116.7	1646.7	2115.2	1442.1	1330.3
27.5°	2100.4	1745.2	1753.4	1255.3	1181.3
30°	2082.0	1899.3	1374.7	1097.1	994.6
32.5°	2063.6	2012.1	1170.1	900.7	780.2
35°	2038.6	1965.7	1002.7	716.5	661.3
37.5°	2015.2	1751.3	850.2	618.5	602.7
40°	1989.1	1411.0	682.8	579.7	596.0
42.5°	1967.2	1118.6	573.6	575.6	615.9
45°	1946.3	888.9	517.4	590.4	642.0
47.5°	1934.0	706.8	495.0	608.3	649.6
50°	1915.1	566.4	486.8	611.8	634.8
52.5°	1875.3	466.9	484.3	593.0	608.8
55°	1787.6	396.0	477.1	571.5	609.8
57.5°	1625.8	352.1	460.8	576.1	634.8
60°	1389.0	317.9	444.5	590.9	637.9
62.5°	1105.3	286.8	435.8	578.7	607.8
65°	828.7	257.2	423.5	537.3	557.2
67.5°	580.2	231.7	396.0	485.8	496.5
70°	394.5	207.2	361.8	420.0	424.6
72.5°	265.4	182.7	319.4	352.1	359.2
75°	173.0	156.7	272.5	290.9	303.6
77.5°	110.2	133.2	226.1	249.5	265.9
80°	68.4	110.2	190.3	224.0	234.2
82.5°	38.3	91.9	164.8	200.0	205.6
85°	18.4	77.1	150.0	182.2	189.8
87.5°	4.6	65.3	132.2	151.0	151.0
90°	0.5	56.1	109.7	119.9	118.9
92.5°	0.5	49.5	95.4	102.1	100.0
95°	1.0	44.4	85.2	88.8	84.7
97.5°	1.0	41.8	78.6	76.0	69.9
100°	1.0	38.8	71.4	64.8	58.2
102.5°	1.0	34.7	65.3	57.2	51.5
105°	1.0	29.6	59.7	51.5	46.4
107.5°	1.0	23.5	53.6	46.9	42.9
110°	1.0	16.8	48.0	43.4	40.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	10.2	43.4	40.3	37.8
115°	1.0	3.6	38.8	36.7	34.2
117.5°	1.0	1.5	34.2	35.2	32.1
120°	1.0	1.5	28.6	33.2	30.6
122.5°	1.0	1.5	23.5	31.1	29.6
125°	1.0	1.0	17.9	28.6	28.1
127.5°	1.0	1.0	12.2	25.0	26.0
130°	1.0	1.0	6.1	20.4	23.0
132.5°	1.0	1.0	1.0	16.8	18.9
135°	1.0	1.0	1.0	12.2	15.3
137.5°	1.0	1.0	1.0	6.1	11.2
140°	1.0	1.0	1.0	1.0	4.6
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)