

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: P290314

Luminaire Tested: **8SSRK-SLC-50-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290314  
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-L840-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

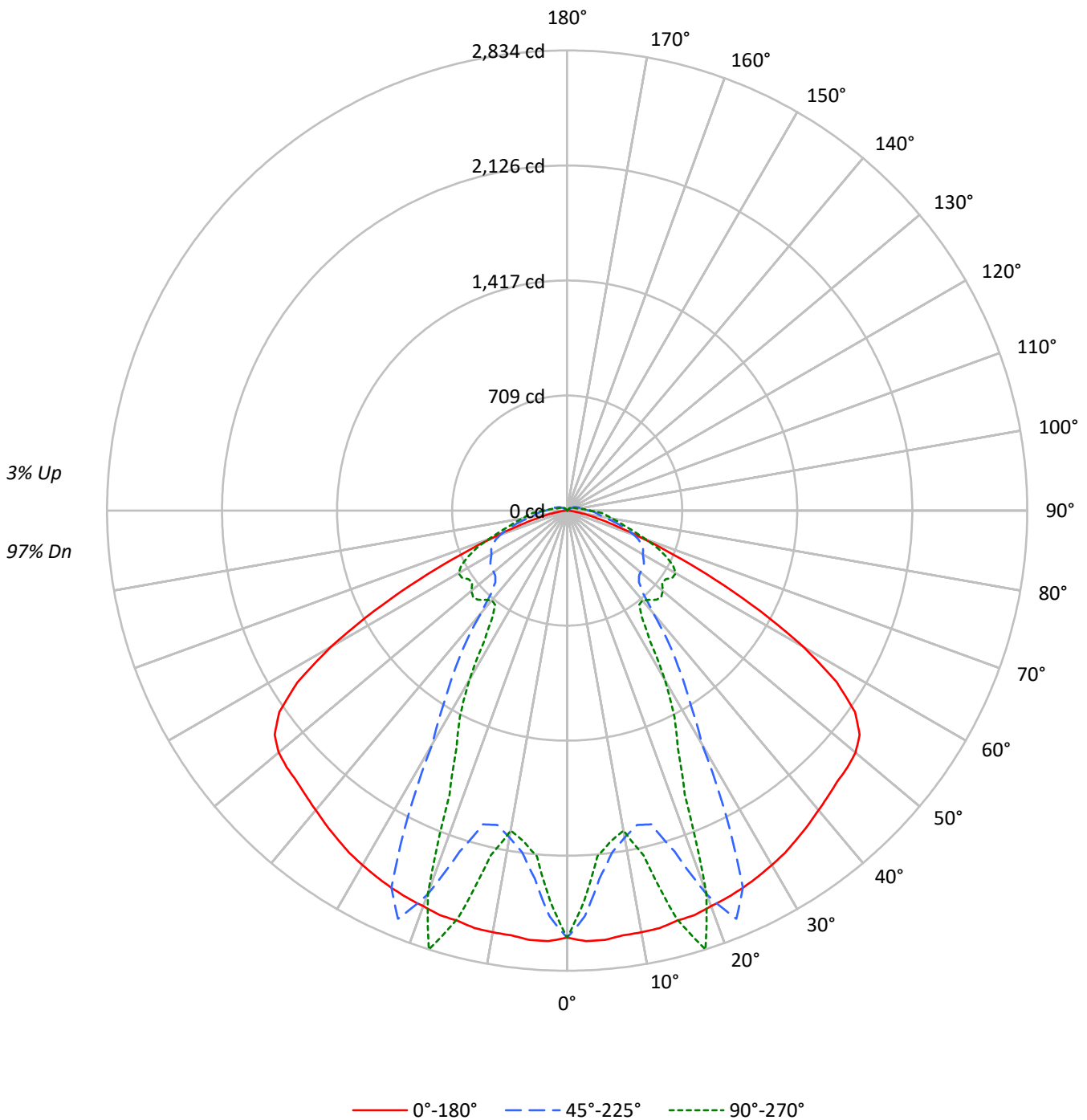
Lumens per Lamp: N/A  
Luminaire Lumens: 5531.4 lumens  
Efficiency: N/A  
Efficacy: 161.7 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

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°	84946	84946	84946
5°	85876	59080	51342
10°	86143	44635	38475
15°	86919	37946	41949
20°	88411	42526	35062
25°	90426	39230	20028
30°	92869	23493	13567
35°	95895	16001	8305
40°	99770	10292	6982
45°	105409	7443	7099
50°	113657	6747	6694
55°	118315	6426	6192
60°	104820	5866	6290
65°	73382	5521	5382
70°	42651	4693	4047
75°	24241	3545	2879
80°	13770	2502	2227
85°	6643	2009	1822



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.5	4.0
10°-20°	656.3	11.9
20°-30°	966.1	17.5
30°-40°	943.8	17.1
40°-50°	782.4	14.1
50°-60°	718.3	13.0
60°-70°	569.2	10.3
70°-80°	316.0	5.7
80°-90°	167.4	3.0
90°-100°	88.0	1.6
100°-110°	53.0	1.0
110°-120°	30.3	0.5
120°-130°	16.7	0.3
130°-140°	5.3	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°	1841.0	33.3
0°-40°	2784.7	50.3
0°-60°	4285.4	77.5
0°-90°	5338.0	96.5
90°-120°	171.2	3.1
90°-150°	193.4	3.5
90°-180°	193.0	3.5
0°-180°	5531.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2631	2631	2631	2631	2631	
5°	2654	2505	2276	2179	2138	252
15°	2614	2088	2000	2449	2600	742
25°	2563	1994	2561	1746	1611	1184
35°	2468	2380	1214	867	801	1549
45°	2356	1076	626	715	777	1827
55°	2164	479	578	692	738	1879
65°	1003	311	513	650	675	1015
75°	209	190	330	352	368	248
85°	22	93	182	221	230	31
90°	1	68	133	145	144	1
95°	1	54	103	108	103	1
105°	1	36	72	62	56	1
115°	1	4	47	44	41	1
125°	1	1	22	35	34	1
135°	1	1	1	15	18	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°	2630.6	2630.6	2630.6	2630.6	2630.6
2.5°	2654.1	2606.5	2500.8	2429.2	2405.1
5°	2654.1	2505.2	2276.0	2179.0	2138.2
7.5°	2638.0	2376.7	2122.1	2080.1	2053.6
10°	2636.8	2239.5	2043.7	2008.5	2001.0
12.5°	2633.7	2163.5	1983.1	2107.9	2175.3
15°	2614.5	2088.2	1999.8	2448.9	2599.7
17.5°	2611.4	2031.9	2202.4	2770.8	2834.5
20°	2592.3	1987.5	2518.1	2730.0	2505.8
22.5°	2579.9	1956.6	2721.4	2196.3	1891.1
25°	2562.6	1993.6	2560.8	1745.9	1610.6
27.5°	2542.9	2112.9	2122.8	1519.8	1430.2
30°	2520.6	2299.4	1664.3	1328.3	1204.1
32.5°	2498.4	2436.0	1416.6	1090.4	944.6
35°	2468.1	2379.8	1214.0	867.4	800.7
37.5°	2439.7	2120.3	1029.2	748.8	729.6
40°	2408.2	1708.2	826.6	701.8	721.6
42.5°	2381.6	1354.2	694.4	696.9	745.7
45°	2356.3	1076.2	626.4	714.8	777.2
47.5°	2341.5	855.6	599.3	736.4	786.5
50°	2318.6	685.8	589.4	740.7	768.5
52.5°	2270.4	565.3	586.3	717.9	737.0
55°	2164.1	479.4	577.6	691.9	738.3
57.5°	1968.3	426.3	557.9	697.5	768.5
60°	1681.6	384.9	538.1	715.4	772.2
62.5°	1338.1	347.2	527.6	700.6	735.8
65°	1003.3	311.4	512.8	650.5	674.6
67.5°	702.4	280.5	479.4	588.1	601.1
70°	477.6	250.8	438.0	508.4	514.0
72.5°	321.3	221.2	386.7	426.3	434.9
75°	209.4	189.7	329.9	352.1	367.6
77.5°	133.4	161.2	273.7	302.1	321.9
80°	82.8	133.4	230.4	271.2	283.6
82.5°	46.3	111.2	199.5	242.2	249.0
85°	22.2	93.3	181.6	220.6	229.8
87.5°	5.6	79.1	160.0	182.9	182.9
90°	0.6	68.0	132.8	145.2	143.9
92.5°	0.6	59.9	115.5	123.6	121.1
95°	1.2	53.7	103.2	107.5	102.6
97.5°	1.2	50.7	95.1	92.1	84.6
100°	1.2	47.0	86.5	78.5	70.4
102.5°	1.2	42.0	79.1	69.2	62.4
105°	1.2	35.8	72.3	62.4	56.2
107.5°	1.2	28.4	64.9	56.8	51.9
110°	1.2	20.4	58.1	52.5	48.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	12.4	52.5	48.8	45.7
115°	1.2	4.3	47.0	44.5	41.4
117.5°	1.2	1.9	41.4	42.6	38.9
120°	1.2	1.9	34.6	40.2	37.1
122.5°	1.2	1.9	28.4	37.7	35.8
125°	1.2	1.2	21.6	34.6	34.0
127.5°	1.2	1.2	14.8	30.3	31.5
130°	1.2	1.2	7.4	24.7	27.8
132.5°	1.2	1.2	1.2	20.4	22.9
135°	1.2	1.2	1.2	14.8	18.5
137.5°	1.2	1.2	1.2	7.4	13.6
140°	1.2	1.2	1.2	1.2	5.6
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)