

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: P290138

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290138  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-LN-50-L840-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

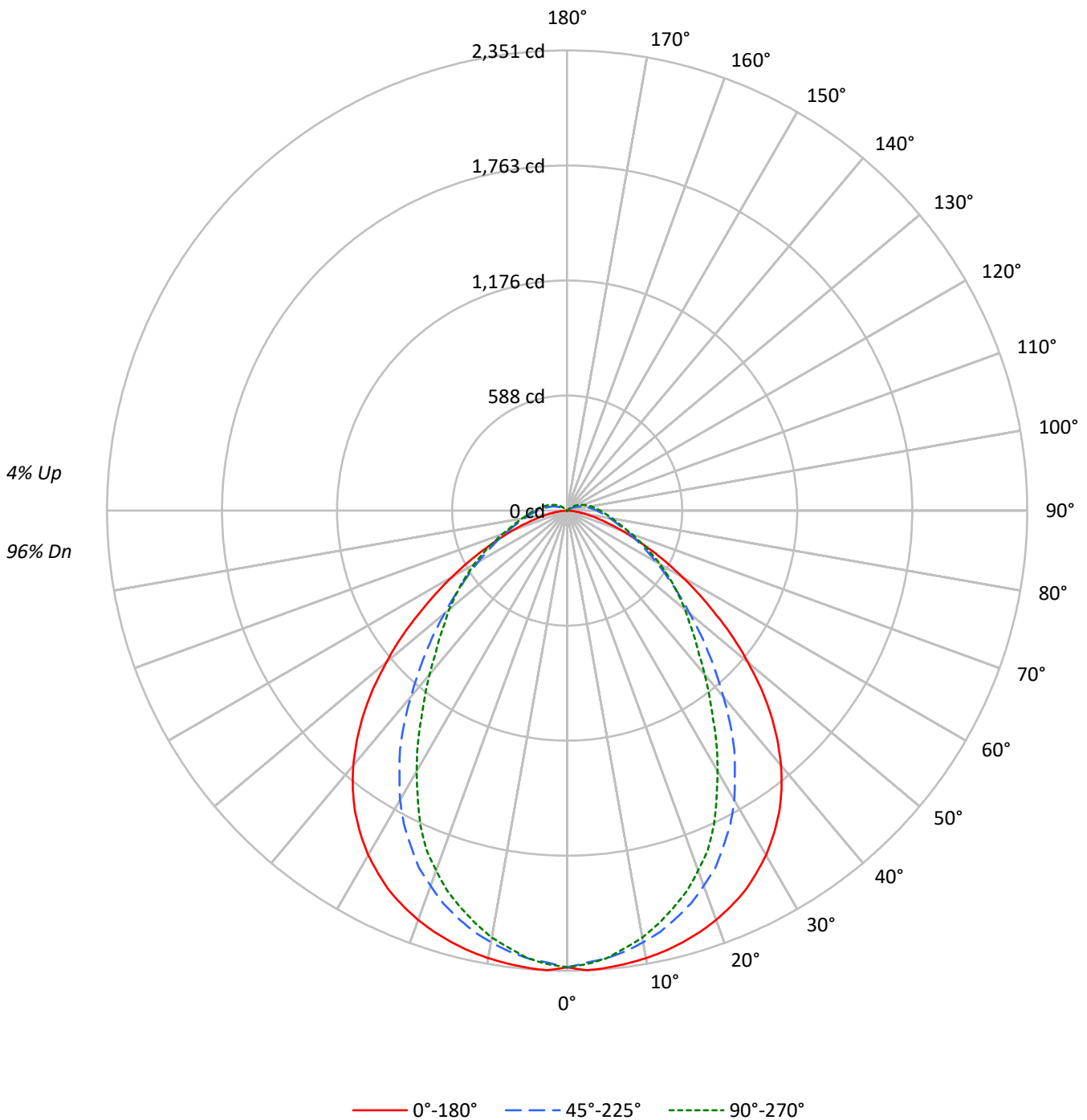
Lumens per Lamp: N/A  
Luminaire Lumens: 5253.1 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

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	103	103	103	98	98	98	96
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27

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

	0°	45°	90°
0°	75349	75349	75349
5°	75862	59610	55141
10°	75849	48912	42586
15°	75892	40901	33884
20°	75915	34451	27378
25°	75712	28961	22056
30°	74889	24104	17312
35°	73333	19633	13475
40°	70463	15461	10587
45°	65832	12084	8413
50°	59054	9343	6851
55°	50899	7271	5565
60°	42399	5705	4474
65°	33798	4489	3534
70°	26371	3555	2778
75°	19738	2887	2211
80°	14286	2381	1833
85°	8888	2009	1563



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.1	4.2
10°-20°	613.5	11.7
20°-30°	884.1	16.8
30°-40°	957.7	18.2
40°-50°	848.2	16.1
50°-60°	645.4	12.3
60°-70°	430.0	8.2
70°-80°	265.7	5.1
80°-90°	166.4	3.2
90°-100°	109.4	2.1
100°-110°	67.0	1.3
110°-120°	34.6	0.7
120°-130°	11.3	0.2
130°-140°	0.7	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1716.6	32.7
0°-40°	2674.3	50.9
0°-60°	4168.0	79.3
0°-90°	5030.1	95.8
90°-120°	211.0	4.0
90°-150°	223.0	4.2
90°-180°	223.0	4.2
0°-180°	5253.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2333	2333	2333	2333	2333	
5°	2345	2330	2296	2305	2296	223
15°	2283	2240	2156	2126	2100	645
25°	2146	2045	1890	1810	1774	987
35°	1887	1711	1490	1349	1299	1176
45°	1472	1241	1017	940	921	1129
55°	931	760	654	662	664	836
65°	462	405	417	441	443	467
75°	170	208	269	287	282	189
85°	30	107	182	200	197	36
90°	1	78	151	170	169	2
95°	3	55	125	145	145	2
105°	2	22	78	100	103	2
115°	2	2	40	62	68	2
125°	1	1	1	27	34	1
135°	0	0	0	0	0	0
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°	2333.4	2333.4	2333.4	2333.4	2333.4
2.5°	2350.7	2337.8	2311.2	2326.6	2319.2
5°	2344.6	2329.7	2296.4	2305.0	2296.4
7.5°	2334.7	2316.1	2271.7	2275.4	2255.0
10°	2321.7	2297.0	2239.5	2233.3	2214.8
12.5°	2305.0	2270.4	2203.1	2178.4	2160.4
15°	2282.8	2239.5	2155.5	2126.5	2099.9
17.5°	2257.4	2201.8	2104.2	2069.0	2037.5
20°	2225.9	2156.1	2040.0	1991.2	1956.6
22.5°	2187.6	2106.1	1976.3	1905.3	1877.5
25°	2145.6	2044.9	1890.5	1809.5	1773.7
27.5°	2090.6	1977.6	1805.8	1704.5	1653.2
30°	2032.6	1897.9	1707.6	1590.8	1536.5
32.5°	1962.8	1810.8	1593.9	1469.7	1421.6
35°	1887.4	1710.7	1489.5	1349.3	1299.2
37.5°	1798.4	1602.6	1365.3	1236.8	1193.0
40°	1700.8	1485.2	1241.8	1128.7	1094.1
42.5°	1589.6	1366.0	1125.6	1028.0	998.4
45°	1471.6	1241.2	1016.9	939.7	921.1
47.5°	1343.1	1116.4	915.0	860.0	846.4
50°	1204.7	991.6	816.1	785.8	786.5
52.5°	1073.1	873.6	732.1	724.1	722.2
55°	931.0	759.9	653.6	661.7	663.5
57.5°	802.5	654.3	586.9	601.7	603.6
60°	680.2	559.7	523.3	546.1	549.2
62.5°	568.4	478.8	468.9	492.4	491.8
65°	462.1	405.3	417.0	441.1	443.0
67.5°	371.9	345.4	373.8	394.8	393.5
70°	295.3	291.6	331.8	354.0	352.8
72.5°	229.8	246.5	299.0	318.2	313.2
75°	170.5	207.6	268.7	286.7	282.3
77.5°	125.4	175.5	242.2	259.5	256.4
80°	85.9	148.9	219.3	237.2	233.5
82.5°	55.0	126.6	199.5	216.8	214.4
85°	29.7	106.9	181.6	200.2	197.1
87.5°	11.1	90.8	165.6	184.1	182.9
90°	1.2	77.8	151.4	170.5	169.3
92.5°	1.9	66.1	137.8	157.5	157.5
95°	3.1	55.0	125.4	145.2	144.6
97.5°	2.5	46.3	111.8	133.4	133.4
100°	2.5	38.3	99.5	121.1	122.3
102.5°	2.5	30.3	89.0	110.0	112.4
105°	1.9	21.6	78.5	100.1	102.6
107.5°	1.9	12.4	68.0	90.8	93.9
110°	1.9	3.1	58.7	80.9	84.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	49.4	71.7	75.4
115°	1.9	1.9	40.2	62.4	68.0
117.5°	1.2	1.2	29.7	54.4	59.3
120°	1.2	1.2	18.5	45.7	50.7
122.5°	1.2	1.2	8.0	36.5	43.2
125°	1.2	1.2	1.2	27.2	34.0
127.5°	1.2	1.2	0.6	16.1	24.1
130°	1.2	1.2	0.6	6.2	14.8
132.5°	1.2	1.2	0.6	0.6	4.3
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)