

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: P289962

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-LW-50-L840-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4673.6 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

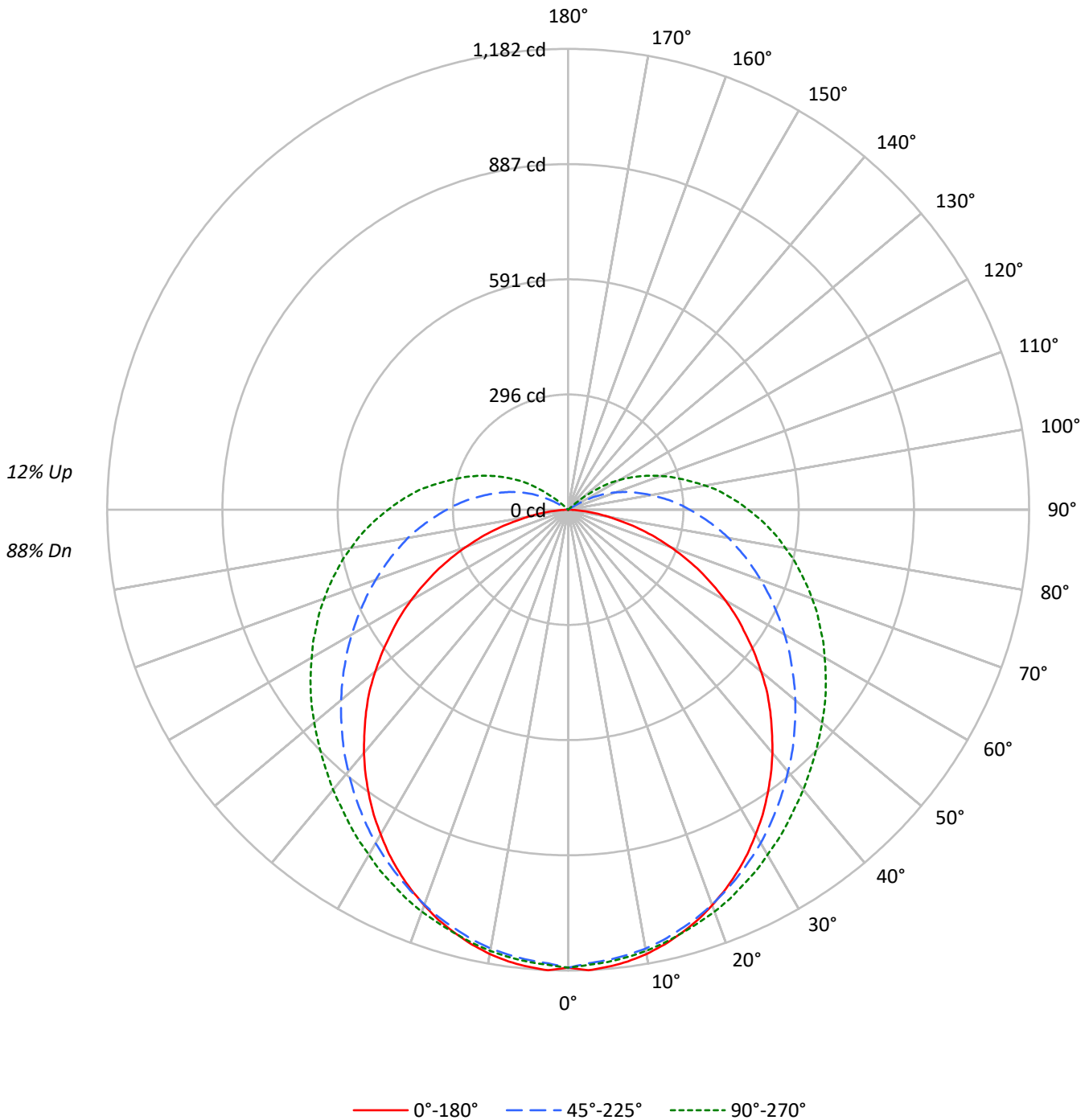
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88				
1	103	97	92	87	99	94	89	84	87	83	79	81	78	75	75	73	71	67				
2	93	83	75	68	89	80	73	67	74	68	63	69	64	60	65	61	57	54				
3	84	72	63	56	80	70	61	54	65	58	52	60	54	50	56	51	47	44				
4	76	63	54	47	73	61	52	46	57	50	44	53	47	42	50	44	40	37				
5	70	56	47	40	67	54	46	39	51	43	37	48	41	36	45	39	34	32				
6	65	50	41	34	62	49	40	34	46	38	32	43	36	31	40	35	30	28				
7	60	46	36	30	57	44	36	30	42	34	28	39	32	27	37	31	26	24				
8	55	41	33	27	53	40	32	26	38	31	25	36	29	24	34	28	24	21				
9	52	38	30	24	50	37	29	23	35	28	23	33	27	22	31	25	21	19				
10	49	35	27	21	47	34	26	21	32	25	21	31	24	20	29	23	19	17				

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

	0°	45°	90°
0°	37926	37926	37926
5°	38080	30101	27964
10°	37805	24964	22095
15°	37361	21136	18143
20°	36810	18207	15353
25°	36190	15853	13199
30°	35418	13937	11514
35°	34615	12304	10169
40°	33761	10915	9075
45°	32777	9734	8160
50°	31647	8699	7405
55°	30332	7788	6762
60°	28998	6984	6185
65°	27296	6266	5682
70°	24942	5626	5240
75°	21810	5053	4825
80°	17363	4535	4438
85°	11282	4012	4086



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.9	2.4
10°-20°	316.6	6.8
20°-30°	480.0	10.3
30°-40°	585.9	12.5
40°-50°	631.0	13.5
50°-60°	619.7	13.3
60°-70°	560.0	12.0
70°-80°	466.2	10.0
80°-90°	357.5	7.7
90°-100°	258.9	5.5
100°-110°	167.2	3.6
110°-120°	90.1	1.9
120°-130°	28.5	0.6
130°-140°	1.1	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°	907.5	19.4
0°-40°	1493.4	32.0
0°-60°	2744.1	58.7
0°-90°	4127.8	88.3
90°-120°	516.3	11.0
90°-150°	545.8	11.7
90°-180°	546.0	11.7
0°-180°	4673.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1177	1173	1160	1168	1165	112
15°	1124	1121	1114	1126	1124	317
25°	1026	1027	1035	1057	1061	472
35°	891	903	934	971	980	557
45°	733	760	819	873	893	565
55°	555	610	700	778	806	497
65°	373	454	582	680	712	368
75°	188	313	470	579	616	200
85°	38	192	363	476	515	45
90°	1	144	311	423	462	2
95°	2	104	264	374	410	2
105°	2	37	172	269	302	3
115°	2	2	86	171	203	2
125°	1	1	1	69	98	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°	1174.5	1174.5	1174.5	1174.5	1174.5
2.5°	1182.5	1177.6	1164.6	1172.6	1168.9
5°	1176.9	1172.6	1159.6	1168.3	1164.6
7.5°	1168.9	1164.6	1152.2	1160.9	1157.8
10°	1157.2	1152.9	1143.0	1151.6	1149.1
12.5°	1142.3	1139.3	1130.0	1140.5	1138.0
15°	1123.8	1121.3	1113.9	1126.3	1124.4
17.5°	1104.0	1101.6	1097.2	1110.2	1110.8
20°	1079.3	1078.7	1078.1	1094.8	1097.2
22.5°	1054.0	1054.6	1057.1	1077.5	1081.2
25°	1025.6	1026.8	1034.8	1057.1	1061.4
27.5°	995.3	999.6	1011.4	1037.3	1044.1
30°	961.3	968.7	987.3	1014.5	1021.9
32.5°	928.0	936.0	960.7	992.8	1002.7
35°	890.9	902.6	933.5	970.6	980.5
37.5°	853.8	867.4	905.7	945.9	958.2
40°	814.9	832.8	876.7	921.8	937.9
42.5°	772.9	798.2	848.9	897.1	915.0
45°	732.7	760.5	819.2	873.0	893.4
47.5°	691.3	724.7	789.6	849.5	871.1
50°	645.6	685.8	759.9	826.0	850.1
52.5°	601.1	648.7	730.3	801.9	828.5
55°	554.8	609.8	700.0	777.8	806.3
57.5°	511.6	570.2	671.0	752.5	782.8
60°	465.2	531.9	640.7	729.0	759.3
62.5°	418.3	493.6	611.0	703.7	737.7
65°	373.2	454.1	582.0	679.6	712.3
67.5°	325.0	418.3	553.6	653.7	690.7
70°	279.3	381.2	525.1	628.9	665.4
72.5°	233.5	345.4	497.3	604.2	641.3
75°	188.4	312.6	470.2	578.9	616.0
77.5°	143.3	278.0	442.4	553.6	592.5
80°	104.4	247.7	417.6	527.6	565.3
82.5°	71.0	219.3	389.8	502.9	541.2
85°	37.7	191.5	362.7	475.7	515.3
87.5°	11.1	166.8	336.1	449.2	488.7
90°	1.2	144.0	311.4	423.2	461.5
92.5°	1.9	124.2	287.9	399.7	436.8
95°	2.5	104.4	263.8	373.8	410.2
97.5°	2.5	87.1	239.1	347.2	386.1
100°	2.5	70.4	215.6	320.0	355.9
102.5°	2.5	55.0	193.4	292.8	328.1
105°	2.5	37.1	171.8	268.8	302.1
107.5°	2.5	18.5	150.7	245.3	278.0
110°	2.5	3.7	129.7	221.2	252.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	2.5	109.4	195.8	228.0
115°	1.9	1.9	86.5	171.1	203.3
117.5°	1.9	1.9	61.8	148.3	177.3
120°	1.9	1.2	35.8	124.2	153.2
122.5°	1.2	1.2	11.7	96.4	127.9
125°	1.2	0.6	0.6	68.6	97.6
127.5°	1.2	0.6	0.0	38.3	66.1
130°	1.2	0.6	0.0	11.1	37.7
132.5°	1.2	0.6	0.0	0.0	8.0
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)