

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: P290115

Luminaire Tested: **4SSRK-LN-60-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290115  
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: 4SSRK-LN-60-L850-CD1-U  
Description: 6000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6368.5 lumens  
Efficiency: N/A  
Efficacy: 142.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

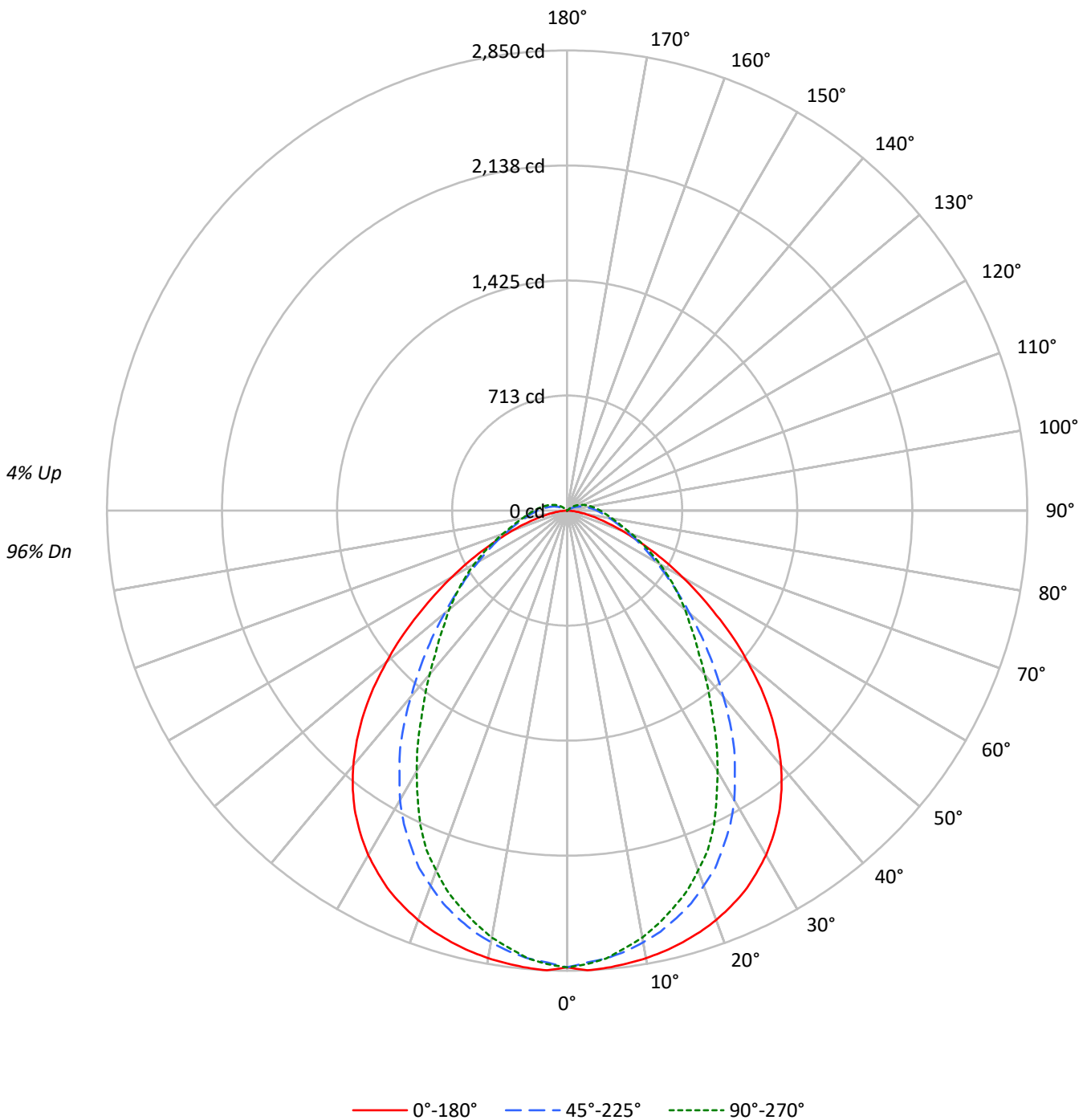
Input Watts (W): 44.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	182699	182699	182699
5°	183603	144385	133698
10°	183240	118389	103258
15°	182995	98950	82159
20°	182698	83312	66381
25°	181827	70015	53479
30°	179441	58258	41974
35°	175283	47440	32673
40°	167960	37350	25669
45°	156431	29186	20399
50°	139799	22563	16610
55°	119950	17558	13493
60°	99341	13772	10847
65°	78586	10838	8568
70°	60657	8580	6736
75°	44637	6969	5362
80°	31317	5747	4445
85°	18070	4847	3789



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.6	4.2
10°-20°	743.7	11.7
20°-30°	1071.8	16.8
30°-40°	1161.0	18.2
40°-50°	1028.3	16.1
50°-60°	782.5	12.3
60°-70°	521.3	8.2
70°-80°	322.1	5.1
80°-90°	201.8	3.2
90°-100°	132.6	2.1
100°-110°	81.2	1.3
110°-120°	41.9	0.7
120°-130°	13.8	0.2
130°-140°	0.8	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°	2081.1	32.7
0°-40°	3242.2	50.9
0°-60°	5053.0	79.3
0°-90°	6098.2	95.8
90°-120°	255.8	4.0
90°-150°	270.3	4.2
90°-180°	270.0	4.2
0°-180°	6368.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2829	2829	2829	2829	2829	
5°	2842	2824	2784	2794	2784	270
15°	2768	2715	2613	2578	2546	782
25°	2601	2479	2292	2194	2150	1197
35°	2288	2074	1806	1636	1575	1426
45°	1784	1505	1233	1139	1117	1368
55°	1129	921	792	802	804	1014
65°	560	491	506	535	537	566
75°	207	252	326	348	342	229
85°	36	130	220	243	239	44
90°	2	94	184	207	205	3
95°	4	67	152	176	175	3
105°	2	26	95	121	124	3
115°	2	2	49	76	82	2
125°	2	2	2	33	41	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°	2828.9	2828.9	2828.9	2828.9	2828.9
2.5°	2849.9	2834.1	2801.9	2820.7	2811.7
5°	2842.4	2824.4	2784.0	2794.4	2784.0
7.5°	2830.4	2807.9	2754.0	2758.5	2733.8
10°	2814.7	2784.7	2715.0	2707.6	2685.1
12.5°	2794.4	2752.5	2670.9	2640.9	2619.2
15°	2767.5	2715.0	2613.2	2578.0	2545.8
17.5°	2736.8	2669.4	2551.0	2508.3	2470.1
20°	2698.6	2613.9	2473.1	2414.0	2372.0
22.5°	2652.1	2553.3	2396.0	2309.8	2276.1
25°	2601.2	2479.1	2291.9	2193.8	2150.3
27.5°	2534.5	2397.5	2189.3	2066.4	2004.3
30°	2464.1	2300.9	2070.2	1928.6	1862.7
32.5°	2379.5	2195.3	1932.4	1781.8	1723.4
35°	2288.1	2073.9	1805.8	1635.8	1575.1
37.5°	2180.3	1942.8	1655.2	1499.5	1446.3
40°	2061.9	1800.5	1505.4	1368.4	1326.4
42.5°	1927.1	1656.0	1364.6	1246.3	1210.3
45°	1784.1	1504.7	1232.8	1139.2	1116.7
47.5°	1628.3	1353.4	1109.2	1042.6	1026.1
50°	1460.5	1202.1	989.4	952.7	953.4
52.5°	1301.0	1059.1	887.5	877.8	875.6
55°	1128.7	921.2	792.4	802.2	804.4
57.5°	972.9	793.2	711.5	729.5	731.8
60°	824.6	678.6	634.4	662.1	665.8
62.5°	689.1	580.5	568.5	596.9	596.2
65°	560.2	491.3	505.6	534.8	537.0
67.5°	450.9	418.7	453.1	478.6	477.1
70°	358.0	353.5	402.2	429.2	427.7
72.5°	278.6	298.8	362.5	385.7	379.7
75°	206.7	251.7	325.8	347.5	342.3
77.5°	152.0	212.7	293.6	314.6	310.8
80°	104.1	180.5	265.9	287.6	283.1
82.5°	66.7	153.5	241.9	262.9	259.9
85°	36.0	129.6	220.2	242.7	238.9
87.5°	13.5	110.1	200.7	223.2	221.7
90°	1.5	94.4	183.5	206.7	205.2
92.5°	2.2	80.1	167.0	191.0	191.0
95°	3.7	66.7	152.0	176.0	175.3
97.5°	3.0	56.2	135.6	161.8	161.8
100°	3.0	46.4	120.6	146.8	148.3
102.5°	3.0	36.7	107.9	133.3	136.3
105°	2.2	26.2	95.1	121.3	124.3
107.5°	2.2	15.0	82.4	110.1	113.8
110°	2.2	3.7	71.2	98.1	102.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	2.2	59.9	86.9	91.4
115°	2.2	2.2	48.7	75.6	82.4
117.5°	1.5	1.5	36.0	65.9	71.9
120°	1.5	1.5	22.5	55.4	61.4
122.5°	1.5	1.5	9.7	44.2	52.4
125°	1.5	1.5	1.5	33.0	41.2
127.5°	1.5	1.5	0.7	19.5	29.2
130°	1.5	1.5	0.7	7.5	18.0
132.5°	1.5	1.5	0.7	0.7	5.2
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)