

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: P290512

Luminaire Tested: **8SSRK-SLW-10-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-SLW-10-L830-CD1-U  
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9670.9 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

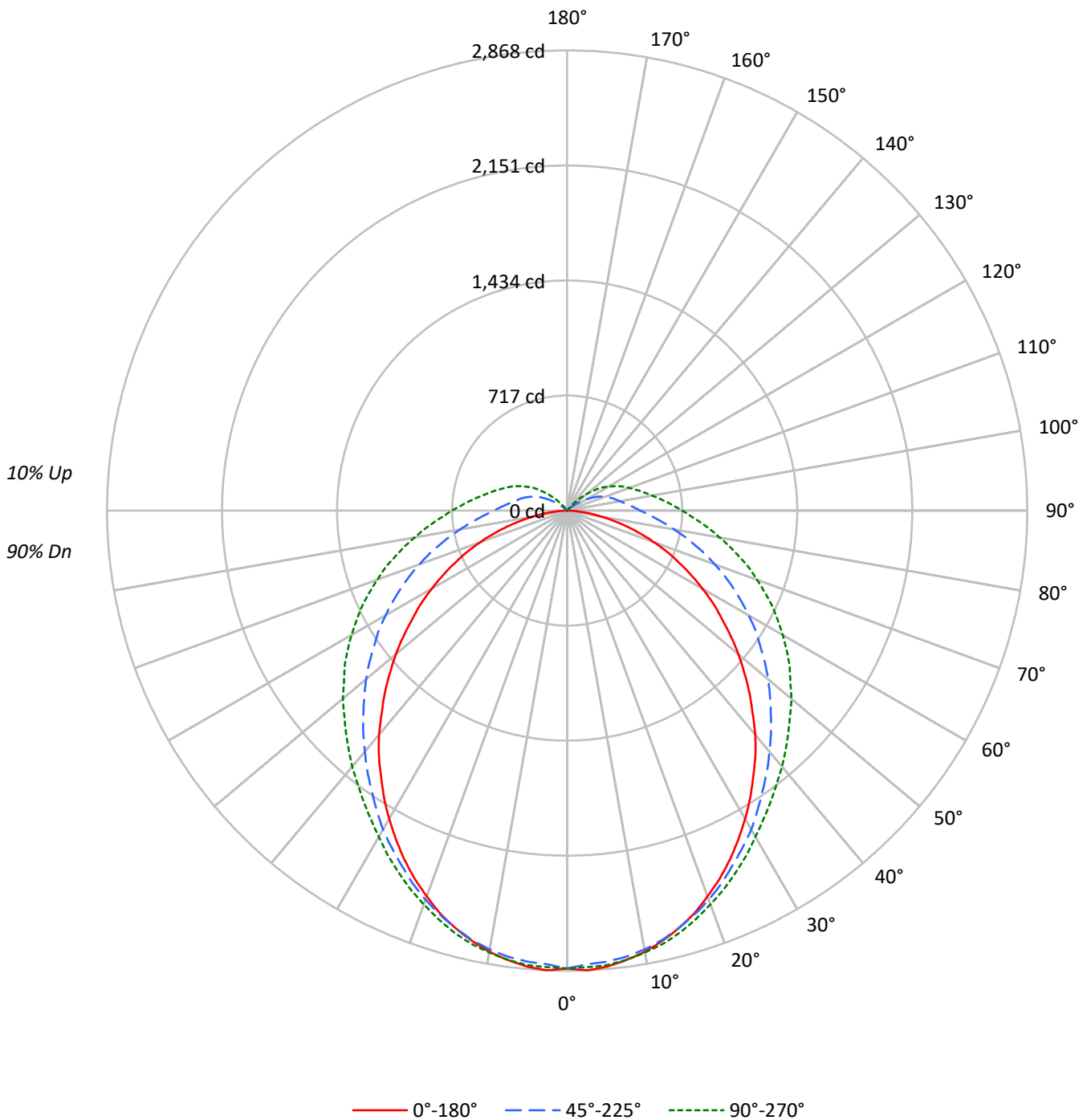
Input Watts (W): 71.9151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90																				
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	71																				
2	94	85	78	71	91	82	76	70	77	72	67	72	68	64	68	64	61	58																				
3	86	74	66	59	82	72	64	58	68	61	55	63	58	53	60	55	51	48																				
4	78	66	56	49	75	64	55	49	60	53	47	56	50	45	53	48	43	41																				
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	35																				
6	66	53	43	37	64	51	43	36	48	41	35	46	39	34	43	37	33	31																				
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27																				
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	30	26	24																				
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22																				
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	21	20																				

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

	0°	45°	90°
0°	92137	92137	92137
5°	92321	73253	68280
10°	91210	60660	53775
15°	89532	51102	43922
20°	87248	43589	36554
25°	84703	37383	30928
30°	81742	32404	26448
35°	78570	28019	22947
40°	75596	24413	20162
45°	71876	21339	17810
50°	68309	18724	15895
55°	64398	16334	14203
60°	60663	14246	12647
65°	56464	12306	11261
70°	51411	10492	9911
75°	44754	8826	8689
80°	36255	7351	7574
85°	25585	6128	6600



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.6	2.8
10°-20°	762.6	7.9
20°-30°	1128.2	11.7
30°-40°	1332.4	13.8
40°-50°	1385.1	14.3
50°-60°	1305.9	13.5
60°-70°	1113.1	11.5
70°-80°	841.8	8.7
80°-90°	568.0	5.9
90°-100°	390.0	4.0
100°-110°	279.7	2.9
110°-120°	179.4	1.9
120°-130°	91.5	0.9
130°-140°	23.2	0.2
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2160.4	22.3
0°-40°	3492.8	36.1
0°-60°	6183.7	63.9
0°-90°	8706.7	90.0
90°-120°	849.1	8.8
90°-150°	964.2	10.0
90°-180°	964.0	10.0
0°-180°	9670.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2853	2846	2822	2848	2844	270
15°	2693	2702	2693	2720	2722	758
25°	2400	2428	2440	2482	2487	1104
35°	2022	2070	2126	2190	2212	1266
45°	1607	1686	1796	1907	1950	1239
55°	1178	1300	1468	1626	1693	1057
65°	772	929	1143	1332	1412	766
75°	387	574	821	1031	1109	413
85°	86	288	554	759	832	98
90°	1	204	455	649	718	5
95°	1	161	388	559	622	1
105°	2	104	294	423	471	3
115°	2	13	204	319	359	2
125°	2	4	86	199	238	2
135°	2	1	1	63	93	2
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°	2853.3	2853.3	2853.3	2853.3	2853.3
2.5°	2867.7	2858.1	2830.4	2854.5	2848.5
5°	2853.3	2846.1	2822.0	2848.5	2843.6
7.5°	2825.6	2824.4	2805.1	2832.8	2824.4
10°	2791.9	2793.1	2777.4	2805.1	2796.7
12.5°	2746.1	2750.9	2740.1	2766.6	2765.4
15°	2693.1	2701.5	2693.1	2719.6	2722.0
17.5°	2632.9	2646.1	2640.1	2672.6	2669.0
20°	2558.2	2576.3	2581.1	2613.6	2612.4
22.5°	2483.5	2506.4	2514.8	2548.6	2553.4
25°	2400.4	2428.1	2440.2	2482.3	2487.1
27.5°	2310.1	2346.2	2367.9	2410.1	2420.9
30°	2218.6	2257.1	2295.6	2337.8	2347.4
32.5°	2123.4	2165.6	2210.1	2267.9	2278.8
35°	2022.2	2070.4	2125.8	2189.6	2212.5
37.5°	1927.1	1981.3	2046.3	2121.0	2145.1
40°	1824.7	1880.1	1960.8	2045.1	2083.7
42.5°	1710.3	1785.0	1881.3	1982.5	2016.2
45°	1606.7	1686.2	1795.8	1906.6	1950.0
47.5°	1498.3	1591.0	1715.1	1838.0	1884.9
50°	1393.5	1494.7	1635.6	1768.1	1824.7
52.5°	1285.1	1399.5	1552.5	1699.4	1752.4
55°	1177.9	1299.6	1468.2	1626.0	1693.4
57.5°	1081.6	1205.6	1392.3	1553.7	1622.4
60°	973.2	1116.5	1306.8	1480.2	1552.5
62.5°	873.2	1018.9	1222.5	1406.8	1479.0
65°	772.0	928.6	1143.0	1332.1	1411.6
67.5°	676.9	834.7	1062.3	1258.6	1334.5
70°	575.7	746.7	979.2	1181.5	1258.6
72.5°	483.0	658.8	902.1	1106.9	1190.0
75°	386.6	574.5	821.4	1031.0	1109.3
77.5°	301.1	492.6	749.2	959.9	1038.2
80°	218.0	417.9	676.9	888.9	964.7
82.5°	148.1	349.3	613.1	823.8	898.5
85°	85.5	287.9	554.0	758.8	832.3
87.5°	32.5	239.7	501.0	702.2	769.6
90°	1.2	203.5	455.3	649.2	717.8
92.5°	1.2	178.3	420.3	601.0	664.8
95°	1.2	161.4	387.8	558.9	621.5
97.5°	2.4	148.1	358.9	521.5	576.9
100°	2.4	134.9	334.8	485.4	538.4
102.5°	2.4	121.6	313.2	452.9	502.2
105°	2.4	103.6	293.9	422.8	470.9
107.5°	2.4	80.7	272.2	397.5	439.6
110°	2.4	59.0	249.3	372.2	413.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	36.1	228.8	346.9	386.6
115°	2.4	13.2	203.5	319.2	358.9
117.5°	2.4	4.8	173.4	292.7	327.6
120°	2.4	3.6	144.5	263.8	298.7
122.5°	2.4	3.6	114.4	232.5	269.8
125°	2.4	3.6	85.5	198.7	238.5
127.5°	2.4	2.4	55.4	163.8	199.9
130°	2.4	2.4	26.5	130.1	165.0
132.5°	2.4	2.4	1.2	95.1	128.9
135°	2.4	1.2	1.2	62.6	92.7
137.5°	2.4	1.2	0.0	30.1	60.2
140°	2.4	1.2	0.0	0.0	24.1
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)