

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: P289995

Luminaire Tested: **8SSRK-LW-12-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289995  
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-12-L850-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10467.0 lumens  
Efficiency: N/A  
Efficacy: 129.4 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

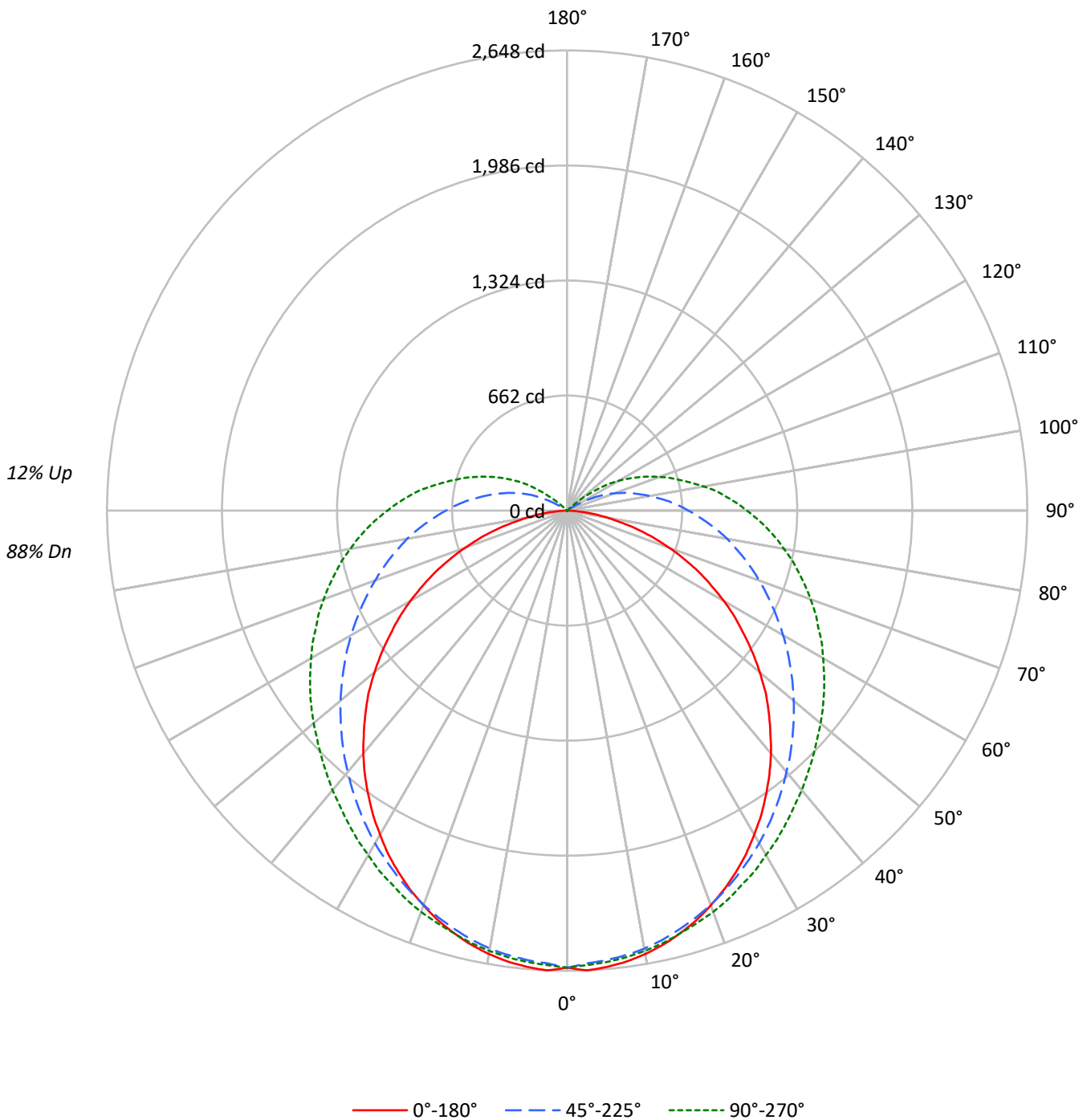
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	84936	84936	84936
5°	85287	67415	62628
10°	84667	55907	49485
15°	83674	47337	40636
20°	82439	40776	34385
25°	81051	35504	29560
30°	79325	31212	25786
35°	77521	27557	22775
40°	75608	24445	20324
45°	73410	21801	18274
50°	70877	19483	16585
55°	67930	17441	15144
60°	64945	15641	13852
65°	61123	14032	12727
70°	55850	12602	11735
75°	48852	11315	10806
80°	38883	10158	9940
85°	25256	8984	9152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.4	2.4
10°-20°	709.0	6.8
20°-30°	1075.1	10.3
30°-40°	1312.1	12.5
40°-50°	1413.1	13.5
50°-60°	1387.9	13.3
60°-70°	1254.1	12.0
70°-80°	1044.1	10.0
80°-90°	800.8	7.7
90°-100°	579.8	5.5
100°-110°	374.5	3.6
110°-120°	201.9	1.9
120°-130°	63.9	0.6
130°-140°	2.4	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°	2032.5	19.4
0°-40°	3344.6	32.0
0°-60°	6145.6	58.7
0°-90°	9244.5	88.3
90°-120°	1156.2	11.0
90°-150°	1222.4	11.7
90°-180°	1222.0	11.7
0°-180°	10467.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2630	2630	2630	2630	2630	
5°	2636	2626	2597	2616	2608	250
15°	2517	2511	2495	2522	2518	710
25°	2297	2300	2318	2367	2377	1058
35°	1995	2022	2091	2174	2196	1248
45°	1641	1703	1835	1955	2001	1265
55°	1242	1366	1568	1742	1806	1113
65°	836	1017	1303	1522	1595	825
75°	422	700	1053	1296	1380	447
85°	84	429	812	1065	1154	101
90°	3	322	697	948	1034	5
95°	6	234	591	837	919	4
105°	6	83	385	602	677	6
115°	4	4	194	383	455	4
125°	3	1	1	154	219	3
135°	0	0	0	0	0	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°	2630.3	2630.3	2630.3	2630.3	2630.3
2.5°	2648.3	2637.2	2608.2	2626.2	2617.9
5°	2635.9	2626.2	2597.1	2616.5	2608.2
7.5°	2617.9	2608.2	2580.5	2599.9	2593.0
10°	2591.6	2581.9	2559.8	2579.1	2573.6
12.5°	2558.4	2551.5	2530.7	2554.2	2548.7
15°	2516.9	2511.3	2494.7	2522.4	2518.3
17.5°	2472.6	2467.1	2457.4	2486.4	2487.8
20°	2417.2	2415.9	2414.5	2451.8	2457.4
22.5°	2360.5	2361.9	2367.4	2413.1	2421.4
25°	2296.9	2299.6	2317.6	2367.4	2377.1
27.5°	2229.1	2238.8	2265.0	2323.2	2338.4
30°	2153.0	2169.6	2211.1	2272.0	2288.6
32.5°	2078.2	2096.2	2151.6	2223.5	2245.7
35°	1995.2	2021.5	2090.7	2173.7	2195.9
37.5°	1912.2	1942.7	2028.4	2118.4	2146.0
40°	1825.0	1865.2	1963.4	2064.4	2100.4
42.5°	1731.0	1787.7	1901.1	2009.1	2049.2
45°	1641.0	1703.3	1834.7	1955.1	2000.8
47.5°	1548.3	1623.0	1768.3	1902.5	1951.0
50°	1445.9	1535.9	1701.9	1849.9	1903.9
52.5°	1346.3	1452.8	1635.5	1796.0	1855.5
55°	1242.5	1365.7	1567.7	1742.0	1805.7
57.5°	1145.7	1277.1	1502.6	1685.3	1753.1
60°	1041.9	1191.3	1434.8	1632.7	1700.5
62.5°	936.7	1105.5	1368.4	1576.0	1652.1
65°	835.7	1017.0	1303.4	1522.0	1595.4
67.5°	727.8	936.7	1239.8	1463.9	1546.9
70°	625.4	853.7	1176.1	1408.6	1490.2
72.5°	523.0	773.5	1113.8	1353.2	1436.2
75°	422.0	700.1	1053.0	1296.5	1379.5
77.5°	321.0	622.6	990.7	1239.8	1326.9
80°	233.8	554.8	935.4	1181.6	1266.0
82.5°	159.1	491.2	873.1	1126.3	1212.1
85°	84.4	428.9	812.2	1065.4	1154.0
87.5°	24.9	373.6	752.7	1005.9	1094.5
90°	2.8	322.4	697.4	947.8	1033.6
92.5°	4.2	278.1	644.8	895.2	978.2
95°	5.5	233.8	590.8	837.1	918.7
97.5°	5.5	195.1	535.5	777.6	864.8
100°	5.5	157.7	482.9	716.7	797.0
102.5°	5.5	123.1	433.1	655.9	734.7
105°	5.5	83.0	384.7	601.9	676.6
107.5°	5.5	41.5	337.6	549.3	622.6
110°	5.5	8.3	290.6	495.3	565.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.2	5.5	244.9	438.6	510.6
115°	4.2	4.2	193.7	383.3	455.2
117.5°	4.2	4.2	138.4	332.1	397.1
120°	4.2	2.8	80.3	278.1	343.1
122.5°	2.8	2.8	26.3	215.9	286.4
125°	2.8	1.4	1.4	153.6	218.6
127.5°	2.8	1.4	0.0	85.8	148.1
130°	2.8	1.4	0.0	24.9	84.4
132.5°	2.8	1.4	0.0	0.0	18.0
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)