

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: P289989

Luminaire Tested: **8SSRK-LW-12-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289989  
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-L935-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8645.6 lumens  
Efficiency: N/A  
Efficacy: 106.9 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

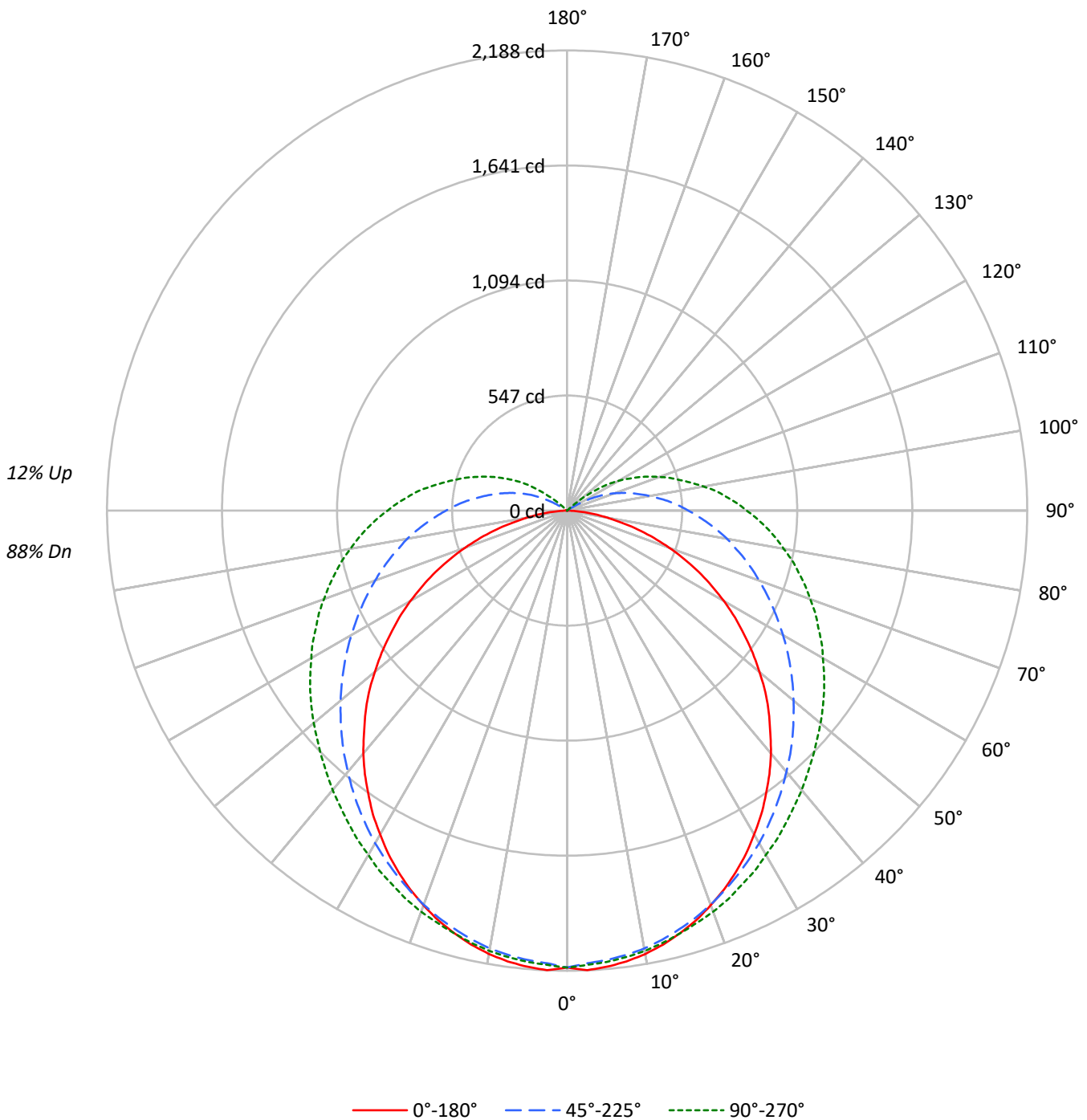
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	70156	70156	70156
5°	70445	55685	51729
10°	69933	46177	40875
15°	69113	39100	33565
20°	68095	33680	28402
25°	66946	29326	24417
30°	65519	25780	21298
35°	64031	22762	18812
40°	62455	20192	16787
45°	60638	18008	15094
50°	58544	16093	13699
55°	56110	14406	12509
60°	53644	12920	11442
65°	50489	11591	10513
70°	46134	10410	9693
75°	40355	9345	8926
80°	32114	8390	8210
85°	20857	7421	7559



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.2	2.4
10°-20°	585.6	6.8
20°-30°	888.0	10.3
30°-40°	1083.8	12.5
40°-50°	1167.2	13.5
50°-60°	1146.4	13.3
60°-70°	1035.9	12.0
70°-80°	862.4	10.0
80°-90°	661.4	7.7
90°-100°	478.9	5.5
100°-110°	309.4	3.6
110°-120°	166.7	1.9
120°-130°	52.8	0.6
130°-140°	2.0	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°	1678.8	19.4
0°-40°	2762.6	32.0
0°-60°	5076.2	58.7
0°-90°	7635.9	88.3
90°-120°	955.0	11.0
90°-150°	1009.7	11.7
90°-180°	1010.0	11.7
0°-180°	8645.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2173	2173	2173	2173	2173	
5°	2177	2169	2145	2161	2154	207
15°	2079	2074	2061	2084	2080	586
25°	1897	1900	1914	1956	1964	874
35°	1648	1670	1727	1796	1814	1031
45°	1356	1407	1516	1615	1653	1045
55°	1026	1128	1295	1439	1492	919
65°	690	840	1077	1257	1318	681
75°	349	578	870	1071	1140	369
85°	70	354	671	880	953	84
90°	2	266	576	783	854	4
95°	5	193	488	691	759	4
105°	5	69	318	497	559	5
115°	3	3	160	317	376	4
125°	2	1	1	127	181	2
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°	2172.6	2172.6	2172.6	2172.6	2172.6
2.5°	2187.5	2178.3	2154.3	2169.2	2162.3
5°	2177.2	2169.2	2145.2	2161.2	2154.3
7.5°	2162.3	2154.3	2131.5	2147.5	2141.8
10°	2140.6	2132.6	2114.3	2130.3	2125.8
12.5°	2113.2	2107.5	2090.3	2109.8	2105.2
15°	2078.9	2074.3	2060.6	2083.5	2080.1
17.5°	2042.3	2037.8	2029.8	2053.8	2054.9
20°	1996.6	1995.5	1994.3	2025.2	2029.8
22.5°	1949.8	1950.9	1955.5	1993.2	2000.1
25°	1897.2	1899.5	1914.3	1955.5	1963.5
27.5°	1841.2	1849.2	1870.9	1918.9	1931.5
30°	1778.3	1792.1	1826.3	1876.6	1890.3
32.5°	1716.6	1731.5	1777.2	1836.6	1854.9
35°	1648.0	1669.8	1726.9	1795.5	1813.8
37.5°	1579.5	1604.6	1675.5	1749.8	1772.6
40°	1507.5	1540.6	1621.8	1705.2	1734.9
42.5°	1429.8	1476.6	1570.3	1659.5	1692.6
45°	1355.5	1406.9	1515.5	1614.9	1652.6
47.5°	1278.9	1340.6	1460.6	1571.5	1611.5
50°	1194.3	1268.6	1405.8	1528.0	1572.6
52.5°	1112.0	1200.0	1350.9	1483.5	1532.6
55°	1026.3	1128.0	1294.9	1438.9	1491.5
57.5°	946.3	1054.9	1241.2	1392.0	1448.0
60°	860.6	984.0	1185.2	1348.6	1404.6
62.5°	773.7	913.2	1130.3	1301.8	1364.6
65°	690.3	840.0	1076.6	1257.2	1317.8
67.5°	601.2	773.7	1024.0	1209.2	1277.8
70°	516.6	705.2	971.5	1163.5	1230.9
72.5°	432.0	638.9	920.0	1117.7	1186.3
75°	348.6	578.3	869.7	1070.9	1139.5
77.5°	265.2	514.3	818.3	1024.0	1096.0
80°	193.1	458.3	772.6	976.0	1045.7
82.5°	131.4	405.7	721.2	930.3	1001.2
85°	69.7	354.3	670.9	880.0	953.2
87.5°	20.6	308.6	621.7	830.9	904.0
90°	2.3	266.3	576.0	782.9	853.7
92.5°	3.4	229.7	532.6	739.4	808.0
95°	4.6	193.1	488.0	691.4	758.9
97.5°	4.6	161.1	442.3	642.3	714.3
100°	4.6	130.3	398.9	592.0	658.3
102.5°	4.6	101.7	357.7	541.7	606.9
105°	4.6	68.6	317.7	497.2	558.9
107.5°	4.6	34.3	278.9	453.7	514.3
110°	4.6	6.9	240.0	409.2	467.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.4	4.6	202.3	362.3	421.7
115°	3.4	3.4	160.0	316.6	376.0
117.5°	3.4	3.4	114.3	274.3	328.0
120°	3.4	2.3	66.3	229.7	283.4
122.5°	2.3	2.3	21.7	178.3	236.6
125°	2.3	1.1	1.1	126.9	180.6
127.5°	2.3	1.1	0.0	70.9	122.3
130°	2.3	1.1	0.0	20.6	69.7
132.5°	2.3	1.1	0.0	0.0	14.9
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)