

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: P289976

Luminaire Tested: **8SSRK-LW-80-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289976  
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-80-L830-CD1-U  
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7425.5 lumens  
Efficiency: N/A  
Efficacy: 131.1 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

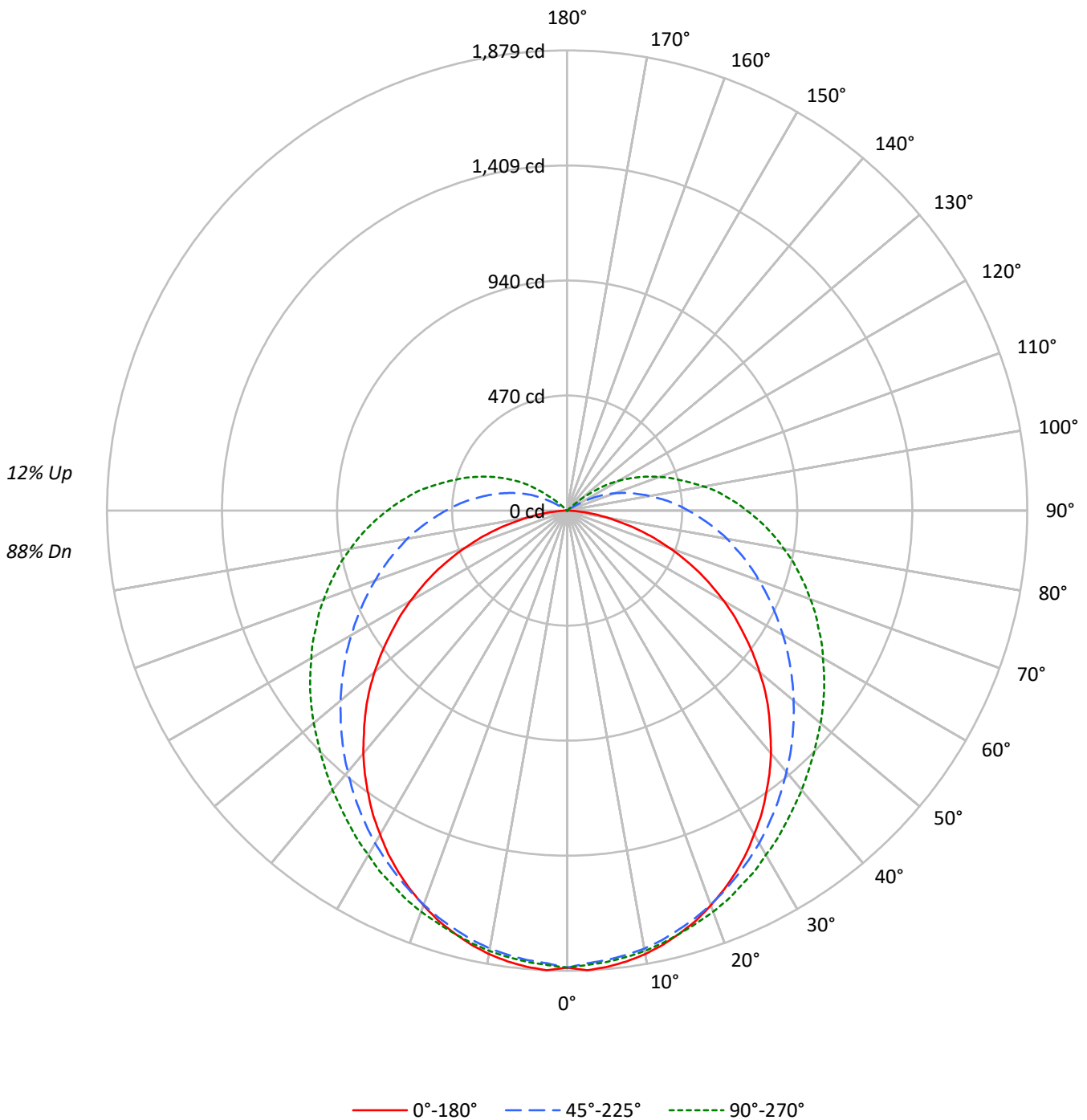
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	60256	60256	60256
5°	60502	47828	44429
10°	60063	39662	35107
15°	59359	33582	28827
20°	58487	28927	24393
25°	57500	25188	20971
30°	56275	22142	18293
35°	54998	19550	16157
40°	53639	17342	14419
45°	52081	15467	12964
50°	50284	13822	11766
55°	48193	12373	10744
60°	46071	11096	9827
65°	43365	9955	9029
70°	39623	8941	8325
75°	34660	8027	7666
80°	27591	7206	7052
85°	17925	6373	6493



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.2	2.4
10°-20°	503.0	6.8
20°-30°	762.7	10.3
30°-40°	930.8	12.5
40°-50°	1002.5	13.5
50°-60°	984.6	13.3
60°-70°	889.7	12.0
70°-80°	740.7	10.0
80°-90°	568.1	7.7
90°-100°	411.3	5.5
100°-110°	265.7	3.6
110°-120°	143.2	1.9
120°-130°	45.3	0.6
130°-140°	1.7	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°	1441.9	19.4
0°-40°	2372.7	32.0
0°-60°	4359.8	58.7
0°-90°	6558.3	88.3
90°-120°	820.2	11.0
90°-150°	867.2	11.7
90°-180°	867.0	11.7
0°-180°	7425.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1866	1866	1866	1866	1866	
5°	1870	1863	1842	1856	1850	177
15°	1786	1782	1770	1790	1786	504
25°	1630	1631	1644	1680	1686	750
35°	1416	1434	1483	1542	1558	886
45°	1164	1208	1302	1387	1419	898
55°	882	969	1112	1236	1281	790
65°	593	722	925	1080	1132	585
75°	299	497	747	920	979	317
85°	60	304	576	756	819	72
90°	2	229	495	672	733	3
95°	4	166	419	594	652	3
105°	4	59	273	427	480	4
115°	3	3	137	272	323	3
125°	2	1	1	109	155	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°	1866.0	1866.0	1866.0	1866.0	1866.0
2.5°	1878.8	1870.9	1850.3	1863.1	1857.2
5°	1869.9	1863.1	1842.5	1856.2	1850.3
7.5°	1857.2	1850.3	1830.7	1844.4	1839.5
10°	1838.5	1831.7	1816.0	1829.7	1825.8
12.5°	1815.0	1810.1	1795.3	1812.0	1808.1
15°	1785.5	1781.6	1769.8	1789.5	1786.5
17.5°	1754.1	1750.2	1743.3	1763.9	1764.9
20°	1714.9	1713.9	1712.9	1739.4	1743.3
22.5°	1674.6	1675.6	1679.5	1711.9	1717.8
25°	1629.5	1631.4	1644.2	1679.5	1686.4
27.5°	1581.4	1588.2	1606.9	1648.1	1658.9
30°	1527.4	1539.1	1568.6	1611.8	1623.6
32.5°	1474.4	1487.1	1526.4	1577.4	1593.1
35°	1415.5	1434.1	1483.2	1542.1	1557.8
37.5°	1356.6	1378.2	1439.0	1502.8	1522.5
40°	1294.7	1323.2	1392.9	1464.5	1490.1
42.5°	1228.0	1268.2	1348.7	1425.3	1453.7
45°	1164.2	1208.3	1301.6	1387.0	1419.4
47.5°	1098.4	1151.4	1254.5	1349.7	1384.1
50°	1025.8	1089.6	1207.4	1312.4	1350.7
52.5°	955.1	1030.7	1160.2	1274.1	1316.3
55°	881.5	968.8	1112.2	1235.8	1281.0
57.5°	812.8	906.0	1066.0	1195.6	1243.7
60°	739.1	845.2	1017.9	1158.3	1206.4
62.5°	664.5	784.3	970.8	1118.0	1172.0
65°	592.9	721.5	924.7	1079.8	1131.8
67.5°	516.3	664.5	879.5	1038.5	1097.4
70°	443.7	605.6	834.4	999.3	1057.2
72.5°	371.0	548.7	790.2	960.0	1018.9
75°	299.4	496.7	747.0	919.8	978.7
77.5°	227.7	441.7	702.8	879.5	941.4
80°	165.9	393.6	663.6	838.3	898.2
82.5°	112.9	348.5	619.4	799.0	859.9
85°	59.9	304.3	576.2	755.8	818.7
87.5°	17.7	265.0	534.0	713.6	776.4
90°	2.0	228.7	494.7	672.4	733.3
92.5°	2.9	197.3	457.4	635.1	694.0
95°	3.9	165.9	419.1	593.9	651.8
97.5°	3.9	138.4	379.9	551.7	613.5
100°	3.9	111.9	342.6	508.5	565.4
102.5°	3.9	87.4	307.2	465.3	521.2
105°	3.9	58.9	272.9	427.0	480.0
107.5°	3.9	29.4	239.5	389.7	441.7
110°	3.9	5.9	206.1	351.4	401.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	3.9	173.7	311.2	362.2
115°	2.9	2.9	137.4	271.9	322.9
117.5°	2.9	2.9	98.2	235.6	281.7
120°	2.9	2.0	56.9	197.3	243.4
122.5°	2.0	2.0	18.7	153.1	203.2
125°	2.0	1.0	1.0	109.0	155.1
127.5°	2.0	1.0	0.0	60.9	105.0
130°	2.0	1.0	0.0	17.7	59.9
132.5°	2.0	1.0	0.0	0.0	12.8
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)