

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: P290032

Luminaire Tested: **4SSRK-RB-80-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-RB-80-L830-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7971.9 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.65 / 1.6  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

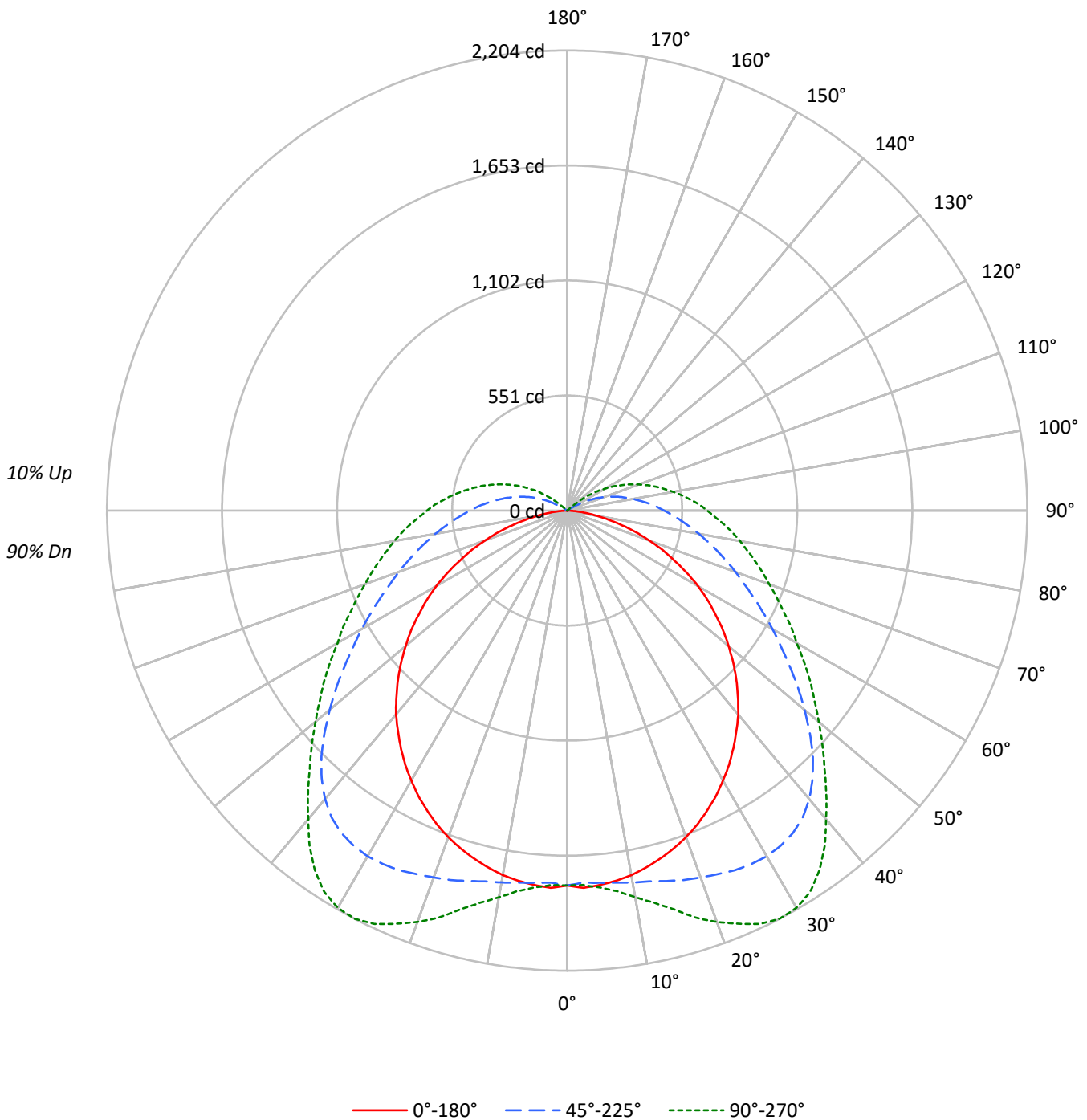
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P290032

CATALOG NUMBER: 4SSRK-RB-80-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P290032

CATALOG NUMBER: 4SSRK-RB-80-L830-CD1-U

**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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	104	98	93	88	100	95	90	86	89	85	81	83	80	77	78	75	73	70
2	94	84	77	70	90	82	74	68	76	70	65	71	67	62	67	63	59	57
3	85	73	64	57	81	71	63	56	66	60	54	62	56	52	58	54	49	47
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	46	42	39
5	71	57	48	41	68	56	47	40	52	45	39	49	43	37	46	41	36	34
6	65	51	42	35	63	50	41	35	47	39	34	44	38	32	42	36	31	29
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	25
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	22
9	52	38	30	24	50	37	29	24	36	28	23	34	27	23	32	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	30	24	20	18

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

	0°	45°	90°
0°	115933	115933	115933
5°	116270	92797	87043
10°	115418	78869	72305
15°	114095	69547	63799
20°	112695	62981	58676
25°	110821	58058	54335
30°	108694	53809	49514
35°	106345	49520	43673
40°	103868	44753	37341
45°	100526	39409	31837
50°	96601	33860	27402
55°	92256	28852	23821
60°	87221	24678	20679
65°	79469	21137	18230
70°	71077	18290	16229
75°	59084	15901	14583
80°	43049	13852	13206
85°	21835	12042	11943



TEST NUMBER: P290032

CATALOG NUMBER: 4SSRK-RB-80-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.6	2.2
10°-20°	525.2	6.6
20°-30°	874.2	11.0
30°-40°	1130.7	14.2
40°-50°	1194.2	15.0
50°-60°	1101.1	13.8
60°-70°	925.3	11.6
70°-80°	725.0	9.1
80°-90°	533.3	6.7
90°-100°	380.0	4.8
100°-110°	244.1	3.1
110°-120°	128.1	1.6
120°-130°	37.3	0.5
130°-140°	0.9	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°	1572.0	19.7
0°-40°	2702.7	33.9
0°-60°	4997.9	62.7
0°-90°	7181.5	90.1
90°-120°	752.3	9.4
90°-150°	790.4	9.9
90°-180°	790.0	9.9
0°-180°	7971.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1795	1795	1795	1795	1795	
5°	1800	1799	1789	1812	1812	171
15°	1726	1759	1837	1946	1977	487
25°	1585	1674	1900	2118	2185	731
35°	1388	1543	1885	2077	2105	868
45°	1146	1350	1665	1736	1743	884
55°	868	1079	1302	1391	1420	777
65°	566	775	986	1107	1143	564
75°	274	505	743	884	931	291
85°	44	295	547	703	753	57
90°	1	216	464	622	671	2
95°	3	157	390	545	594	2
105°	3	51	254	395	442	3
115°	2	3	122	246	288	2
125°	2	1	0	88	130	2
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



TEST NUMBER: P290032

CATALOG NUMBER: 4SSRK-RB-80-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1795.1	1795.1	1795.1	1795.1	1795.1
2.5°	1808.7	1800.9	1783.5	1799.0	1795.1
5°	1800.0	1799.0	1789.3	1812.5	1812.5
7.5°	1788.4	1792.2	1797.1	1835.7	1838.6
10°	1772.9	1784.5	1808.7	1867.6	1880.2
12.5°	1750.7	1771.9	1818.3	1903.4	1923.7
15°	1725.5	1759.4	1836.7	1945.9	1976.9
17.5°	1696.5	1741.0	1855.1	1998.1	2044.5
20°	1664.6	1722.6	1869.6	2045.5	2096.7
22.5°	1627.9	1700.4	1885.0	2084.2	2142.2
25°	1585.4	1674.3	1900.5	2118.0	2184.7
27.5°	1542.8	1647.2	1909.2	2139.3	2204.0
30°	1492.6	1617.3	1912.1	2142.2	2197.3
32.5°	1443.3	1584.4	1903.4	2121.9	2165.4
35°	1388.2	1542.8	1885.0	2077.4	2105.4
37.5°	1331.1	1498.4	1853.1	2008.8	2026.2
40°	1275.1	1456.8	1803.8	1921.8	1929.5
42.5°	1210.3	1403.6	1740.0	1829.9	1837.7
45°	1146.5	1350.5	1664.6	1736.2	1742.9
47.5°	1078.8	1289.6	1575.7	1642.4	1658.8
50°	1009.2	1222.9	1484.8	1555.4	1572.8
52.5°	941.5	1154.2	1393.0	1473.2	1493.5
55°	868.1	1078.8	1302.1	1391.1	1420.1
57.5°	797.5	1004.4	1214.2	1312.8	1344.7
60°	724.0	928.0	1136.8	1240.3	1269.3
62.5°	646.7	850.7	1057.5	1173.6	1210.3
65°	566.5	775.3	986.0	1106.9	1142.6
67.5°	495.9	702.8	917.4	1045.0	1085.6
70°	419.5	633.2	857.4	989.9	1030.5
72.5°	345.1	568.4	797.5	936.7	980.2
75°	273.6	504.6	743.4	884.5	930.9
77.5°	204.0	445.6	690.2	837.1	883.5
80°	143.1	391.5	640.9	791.7	841.0
82.5°	88.9	343.2	592.6	747.2	797.5
85°	43.5	294.8	547.1	702.8	753.0
87.5°	12.6	252.3	504.6	660.2	709.5
90°	1.0	216.5	464.0	621.6	670.9
92.5°	1.9	184.6	429.2	582.9	635.1
95°	2.9	156.6	390.5	545.2	593.5
97.5°	2.9	129.5	354.8	507.5	554.9
100°	2.9	103.4	320.0	467.9	516.2
102.5°	2.9	78.3	286.1	431.1	477.5
105°	2.9	51.2	254.2	395.4	441.8
107.5°	2.9	22.2	220.4	356.7	403.1
110°	2.9	4.8	187.5	320.9	366.4



TEST NUMBER: P290032

CATALOG NUMBER: 4SSRK-RB-80-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	2.9	156.6	283.2	328.7
115°	1.9	2.9	121.8	245.5	288.1
117.5°	1.9	1.9	83.1	208.8	252.3
120°	1.9	1.9	43.5	172.1	211.7
122.5°	1.9	1.0	8.7	131.5	175.0
125°	1.9	1.0	0.0	88.0	130.5
127.5°	1.9	1.0	0.0	45.4	88.9
130°	1.0	1.0	0.0	6.8	42.5
132.5°	1.0	1.0	0.0	0.0	1.9
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)