

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: P290033

Luminaire Tested: **4SSRK-RB-80-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290033  
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-L835-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8109.5 lumens  
Efficiency: N/A  
Efficacy: 128.9 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

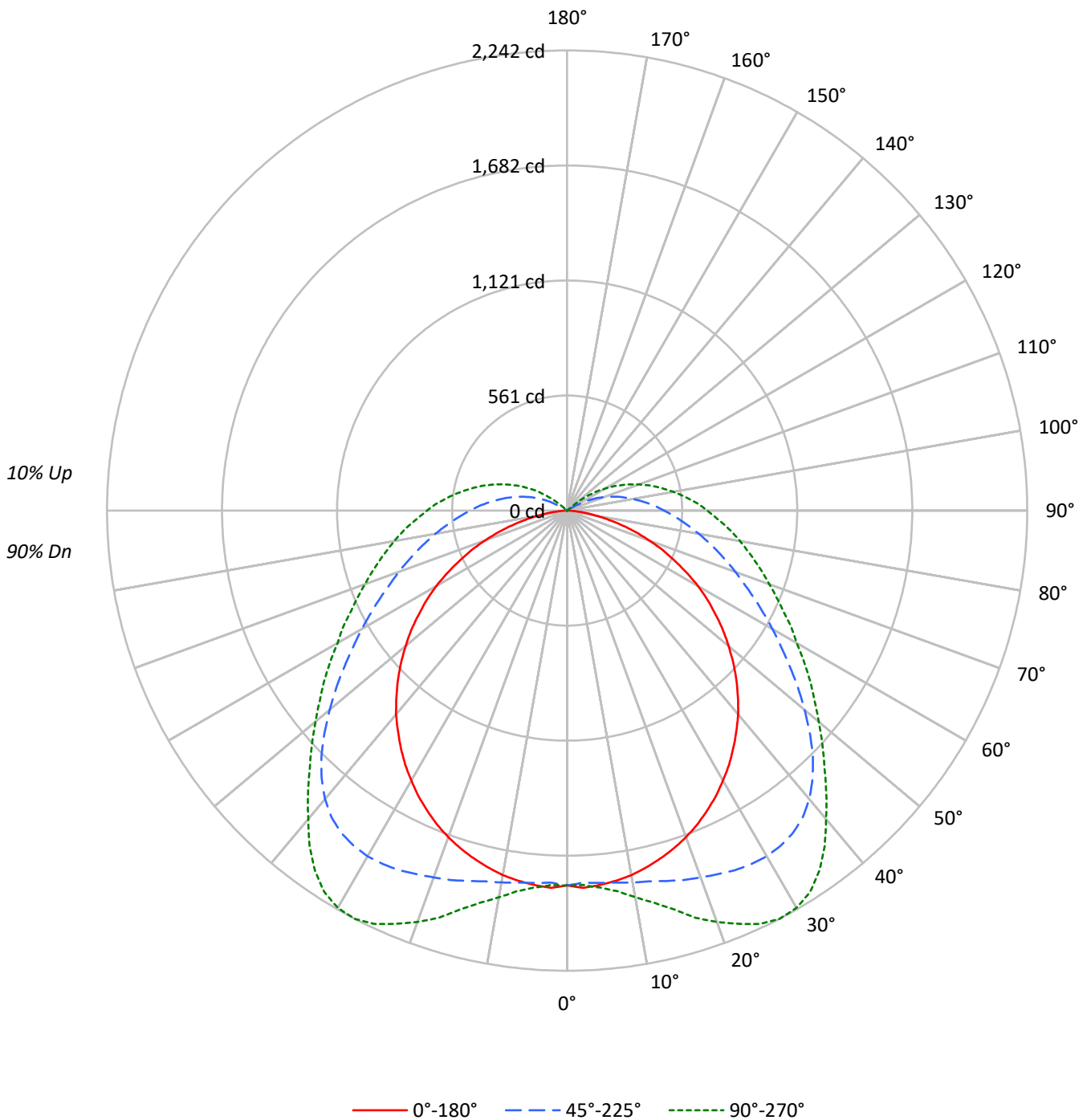
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90					90			
1	104	98	93	88	100	95	90	86	89	85	81	83	80	77	78	75	73	70					70			
2	94	84	77	70	90	82	74	68	76	70	65	71	67	62	67	63	59	57					57			
3	85	73	64	57	81	71	63	56	66	60	54	62	56	52	58	54	49	47					47			
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	46	42	39					39			
5	71	57	48	41	68	56	47	40	52	45	39	49	43	37	46	41	36	34					34			
6	65	51	42	35	63	50	41	35	47	39	34	44	38	32	42	36	31	29					29			
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	25					25			
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	22					22			
9	52	38	30	24	50	37	29	24	36	28	23	34	27	23	32	26	22	20					20			
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	30	24	20	18					18			

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

	0°	45°	90°
0°	117935	117935	117935
5°	118272	94400	88546
10°	117410	80230	73551
15°	116066	70748	64899
20°	114638	64066	59689
25°	112730	59060	55272
30°	110566	54737	50368
35°	108176	50374	44428
40°	105652	45525	37985
45°	102262	40088	32387
50°	98266	34444	27874
55°	93850	29351	24232
60°	88727	25104	21035
65°	80830	21501	18544
70°	72313	18606	16510
75°	60099	16175	14836
80°	43771	14092	13434
85°	22236	12251	12149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.6	2.2
10°-20°	534.2	6.6
20°-30°	889.3	11.0
30°-40°	1150.2	14.2
40°-50°	1214.8	15.0
50°-60°	1120.0	13.8
60°-70°	941.2	11.6
70°-80°	737.5	9.1
80°-90°	542.5	6.7
90°-100°	386.6	4.8
100°-110°	248.4	3.1
110°-120°	130.4	1.6
120°-130°	37.9	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°	1599.1	19.7
0°-40°	2749.3	33.9
0°-60°	5084.1	62.7
0°-90°	7305.4	90.1
90°-120°	765.3	9.4
90°-150°	804.2	9.9
90°-180°	804.0	9.9
0°-180°	8109.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1826	1826	1826	1826	1826	
5°	1831	1830	1820	1844	1844	174
15°	1755	1790	1868	1980	2011	495
25°	1613	1703	1933	2154	2222	743
35°	1412	1569	1918	2113	2142	883
45°	1166	1374	1693	1766	1773	899
55°	883	1097	1325	1415	1445	790
65°	576	789	1003	1126	1162	574
75°	278	513	756	900	947	296
85°	44	300	557	715	766	58
90°	1	220	472	632	682	2
95°	3	159	397	555	604	2
105°	3	52	259	402	449	3
115°	2	3	124	250	293	2
125°	2	1	0	90	133	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1826.1	1826.1	1826.1	1826.1	1826.1
2.5°	1839.9	1832.0	1814.3	1830.0	1826.1
5°	1831.0	1830.0	1820.2	1843.8	1843.8
7.5°	1819.2	1823.1	1828.1	1867.4	1870.3
10°	1803.5	1815.3	1839.9	1899.8	1912.6
12.5°	1780.9	1802.5	1849.7	1936.2	1956.9
15°	1755.3	1789.7	1868.4	1979.5	2011.0
17.5°	1725.8	1771.0	1887.1	2032.6	2079.8
20°	1693.3	1752.3	1901.8	2080.8	2132.9
22.5°	1656.0	1729.7	1917.5	2120.1	2179.1
25°	1612.7	1703.2	1933.3	2154.5	2222.4
27.5°	1569.4	1675.6	1942.1	2176.2	2242.1
30°	1518.3	1645.2	1945.1	2179.1	2235.2
32.5°	1468.2	1611.7	1936.2	2158.5	2202.7
35°	1412.1	1569.4	1917.5	2113.2	2141.8
37.5°	1354.1	1524.2	1885.1	2043.4	2061.1
40°	1297.0	1481.9	1834.9	1954.9	1962.8
42.5°	1231.2	1427.8	1770.0	1861.5	1869.4
45°	1166.3	1373.7	1693.3	1766.1	1773.0
47.5°	1097.4	1311.8	1602.9	1670.7	1687.4
50°	1026.6	1243.9	1510.4	1582.2	1599.9
52.5°	957.8	1174.1	1417.0	1498.6	1519.3
55°	883.1	1097.4	1324.6	1415.1	1444.6
57.5°	811.3	1021.7	1235.1	1335.4	1367.8
60°	736.5	944.0	1156.4	1261.6	1291.1
62.5°	657.9	865.4	1075.8	1193.8	1231.2
65°	576.2	788.7	1003.0	1125.9	1162.3
67.5°	504.5	714.9	933.2	1063.0	1104.3
70°	426.8	644.1	872.2	1007.0	1048.3
72.5°	351.1	578.2	811.3	952.9	997.1
75°	278.3	513.3	756.2	899.8	947.0
77.5°	207.5	453.3	702.1	851.6	898.8
80°	145.5	398.3	652.0	805.4	855.5
82.5°	90.5	349.1	602.8	760.1	811.3
85°	44.3	299.9	556.6	714.9	766.0
87.5°	12.8	256.7	513.3	671.6	721.8
90°	1.0	220.3	472.0	632.3	682.4
92.5°	2.0	187.8	436.6	593.0	646.1
95°	3.0	159.3	397.3	554.6	603.8
97.5°	3.0	131.8	360.9	516.3	564.4
100°	3.0	105.2	325.5	475.9	525.1
102.5°	3.0	79.7	291.1	438.6	485.8
105°	3.0	52.1	258.6	402.2	449.4
107.5°	3.0	22.6	224.2	362.9	410.1
110°	3.0	4.9	190.8	326.5	372.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	3.0	159.3	288.1	334.3
115°	2.0	3.0	123.9	249.8	293.0
117.5°	2.0	2.0	84.6	212.4	256.7
120°	2.0	2.0	44.3	175.0	215.4
122.5°	2.0	1.0	8.9	133.7	178.0
125°	2.0	1.0	0.0	89.5	132.8
127.5°	2.0	1.0	0.0	46.2	90.5
130°	1.0	1.0	0.0	6.9	43.3
132.5°	1.0	1.0	0.0	0.0	2.0
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)