

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: P290065

Luminaire Tested: **8SSRK-RB-80-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290065  
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: 8SSRK-RB-80-L835-CD1-U  
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

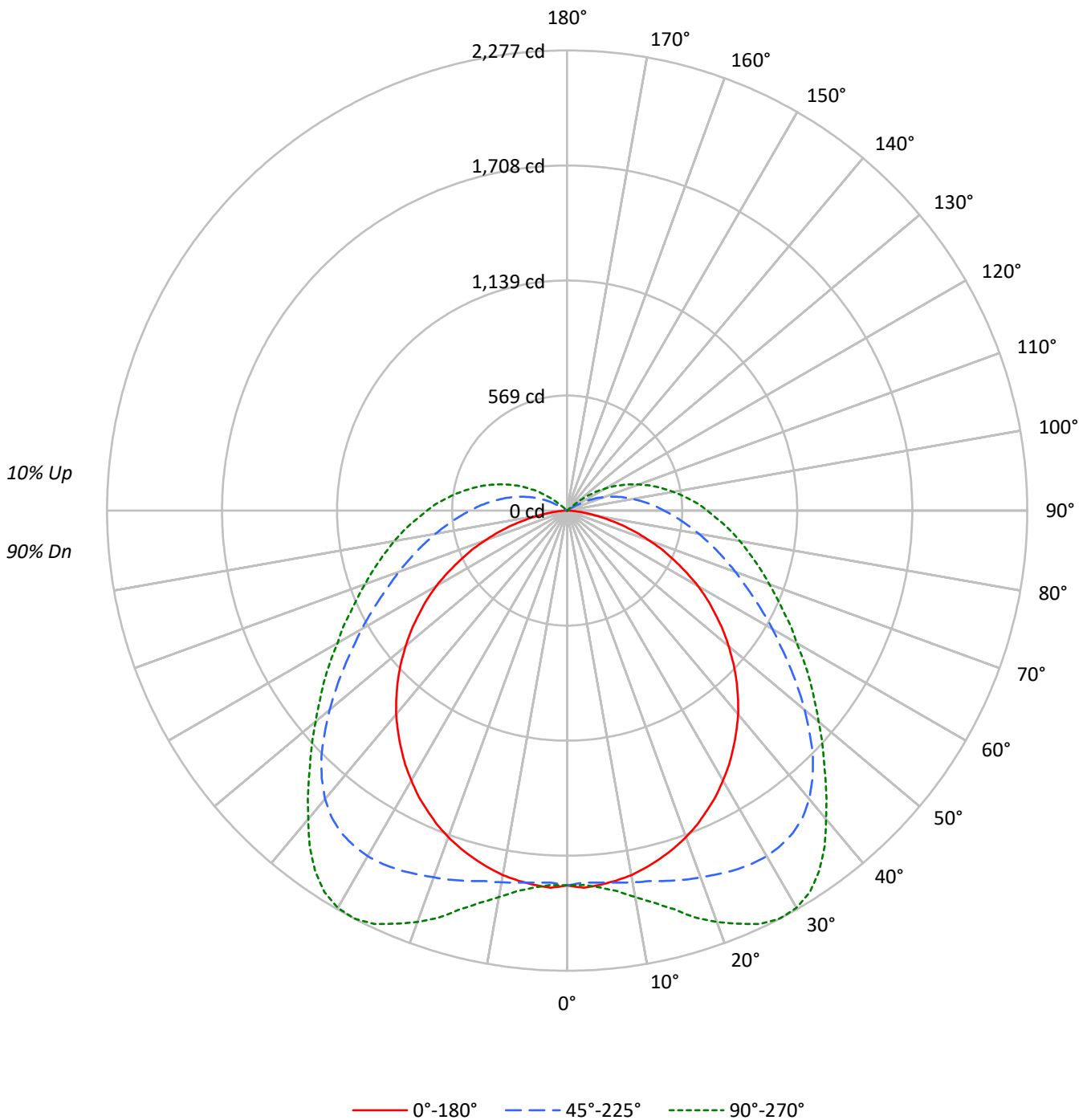
Lumens per Lamp: N/A  
Luminaire Lumens: 8234.6 lumens  
Efficiency: N/A  
Efficacy: 145.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.65 / 1.6  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input 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	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°	59878	59878	59878
5°	60159	47978	44955
10°	59828	40802	37343
15°	59256	35999	32950
20°	58644	32612	30305
25°	57786	30074	28063
30°	56802	27880	25572
35°	55713	25664	22556
40°	54567	23198	19286
45°	52980	20432	16443
50°	51103	17557	14152
55°	49024	14963	12302
60°	46619	12801	10680
65°	42794	10965	9416
70°	38704	9490	8382
75°	32715	8252	7532
80°	24581	7189	6820
85°	13436	6252	6169



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.3	2.2
10°-20°	542.5	6.6
20°-30°	903.0	11.0
30°-40°	1167.9	14.2
40°-50°	1233.5	15.0
50°-60°	1137.3	13.8
60°-70°	955.7	11.6
70°-80°	748.9	9.1
80°-90°	550.9	6.7
90°-100°	392.6	4.8
100°-110°	252.2	3.1
110°-120°	132.4	1.6
120°-130°	38.5	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°	1623.8	19.7
0°-40°	2791.7	33.9
0°-60°	5162.6	62.7
0°-90°	7418.1	90.1
90°-120°	777.1	9.4
90°-150°	816.5	9.9
90°-180°	817.0	9.9
0°-180°	8234.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1854	1854	1854	1854	1854	
5°	1859	1858	1848	1872	1872	177
15°	1782	1817	1897	2010	2042	503
25°	1638	1729	1963	2188	2257	755
35°	1434	1594	1947	2146	2175	897
45°	1184	1395	1720	1793	1800	913
55°	897	1114	1345	1437	1467	802
65°	585	801	1018	1143	1180	583
75°	283	521	768	914	962	300
85°	45	305	565	726	778	59
90°	1	224	479	642	693	2
95°	3	162	403	563	613	2
105°	3	53	263	408	456	3
115°	2	3	126	254	298	2
125°	2	1	0	91	135	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°	1854.3	1854.3	1854.3	1854.3	1854.3
2.5°	1868.2	1860.3	1842.3	1858.3	1854.3
5°	1859.3	1858.3	1848.3	1872.2	1872.2
7.5°	1847.3	1851.3	1856.3	1896.2	1899.2
10°	1831.3	1843.3	1868.2	1929.2	1942.1
12.5°	1808.3	1830.3	1878.2	1966.1	1987.1
15°	1782.4	1817.3	1897.2	2010.0	2042.0
17.5°	1752.4	1798.3	1916.2	2064.0	2111.9
20°	1719.5	1779.4	1931.1	2112.9	2165.8
22.5°	1681.5	1756.4	1947.1	2152.8	2212.7
25°	1637.6	1729.4	1963.1	2187.8	2256.7
27.5°	1593.6	1701.5	1972.1	2209.7	2276.6
30°	1541.7	1670.5	1975.1	2212.7	2269.6
32.5°	1490.8	1636.6	1966.1	2191.8	2236.7
35°	1433.9	1593.6	1947.1	2145.8	2174.8
37.5°	1375.0	1547.7	1914.2	2074.9	2092.9
40°	1317.1	1504.8	1863.2	1985.1	1993.1
42.5°	1250.2	1449.9	1797.3	1890.2	1898.2
45°	1184.3	1394.9	1719.5	1793.4	1800.3
47.5°	1114.4	1332.0	1627.6	1696.5	1713.5
50°	1042.5	1263.1	1533.7	1606.6	1624.6
52.5°	972.6	1192.2	1438.9	1521.8	1542.7
55°	896.7	1114.4	1345.0	1436.9	1466.8
57.5°	823.8	1037.5	1254.1	1356.0	1388.9
60°	747.9	958.6	1174.3	1281.1	1311.1
62.5°	668.0	878.7	1092.4	1212.2	1250.2
65°	585.1	800.8	1018.5	1143.3	1180.3
67.5°	512.2	725.9	947.6	1079.4	1121.3
70°	433.4	654.0	885.7	1022.5	1064.4
72.5°	356.5	587.1	823.8	967.6	1012.5
75°	282.6	521.2	767.9	913.7	961.6
77.5°	210.7	460.3	712.9	864.7	912.7
80°	147.8	404.4	662.0	817.8	868.7
82.5°	91.9	354.5	612.1	771.9	823.8
85°	44.9	304.6	565.2	725.9	777.9
87.5°	13.0	260.6	521.2	682.0	732.9
90°	1.0	223.7	479.3	642.1	693.0
92.5°	2.0	190.7	443.3	602.1	656.0
95°	3.0	161.8	403.4	563.2	613.1
97.5°	3.0	133.8	366.5	524.2	573.2
100°	3.0	106.8	330.5	483.3	533.2
102.5°	3.0	80.9	295.6	445.3	493.3
105°	3.0	52.9	262.6	408.4	456.3
107.5°	3.0	23.0	227.7	368.5	416.4
110°	3.0	5.0	193.7	331.5	378.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	3.0	161.8	292.6	339.5
115°	2.0	3.0	125.8	253.6	297.6
117.5°	2.0	2.0	85.9	215.7	260.6
120°	2.0	2.0	44.9	177.7	218.7
122.5°	2.0	1.0	9.0	135.8	180.7
125°	2.0	1.0	0.0	90.9	134.8
127.5°	2.0	1.0	0.0	46.9	91.9
130°	1.0	1.0	0.0	7.0	43.9
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)