

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: P290035

Luminaire Tested: **4SSRK-RB-80-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290035  
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-L850-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8246.9 lumens  
Efficiency: N/A  
Efficacy: 131.1 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

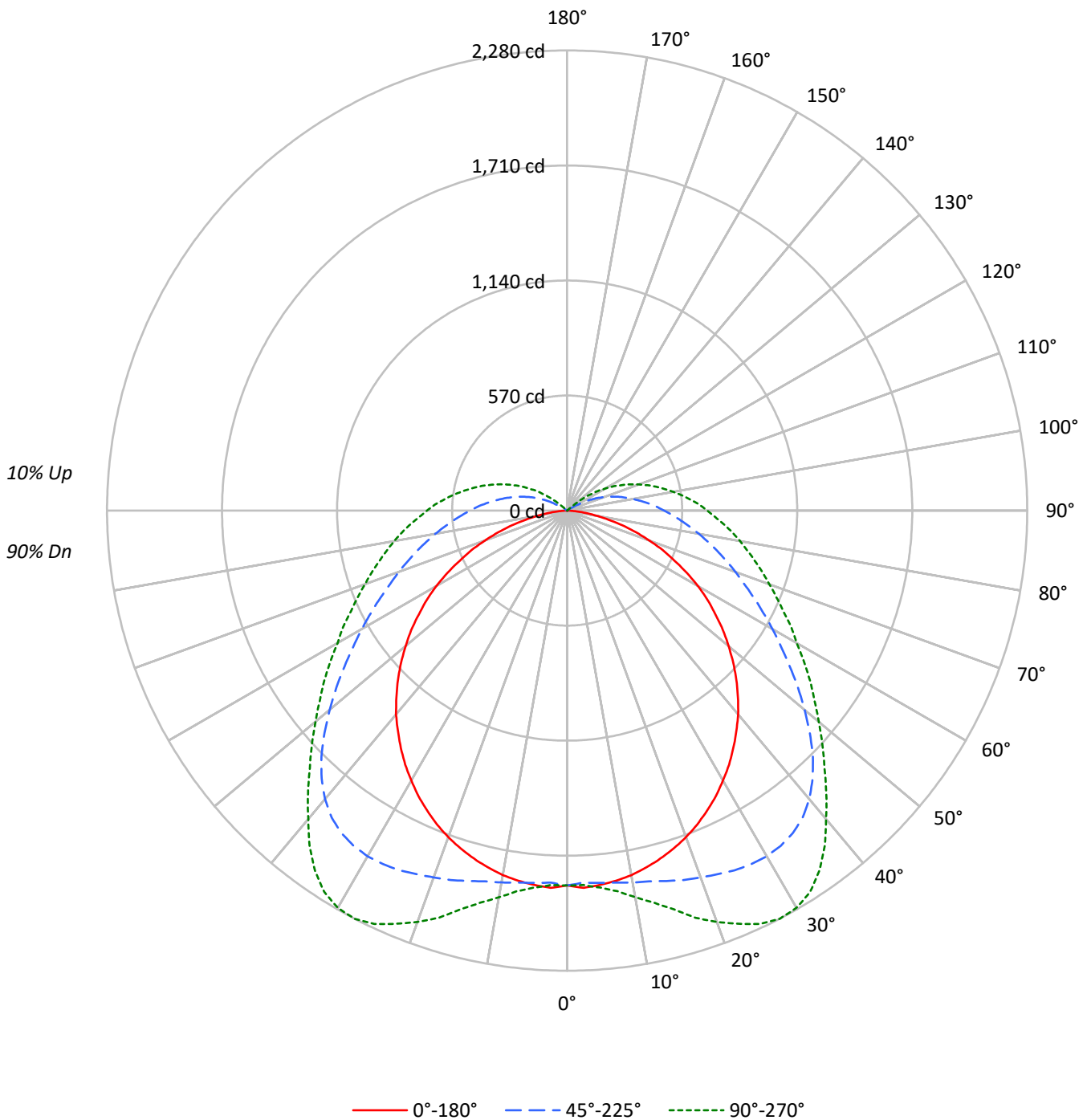
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	119937	119937	119937
5°	120281	96003	90049
10°	119402	81590	74801
15°	118036	71948	66000
20°	116588	65154	60702
25°	114645	60062	56210
30°	112437	55666	51222
35°	110007	51231	45181
40°	107445	46299	38630
45°	103989	40770	32937
50°	99932	35027	28348
55°	95433	29847	24641
60°	90233	25529	21391
65°	82205	21865	18859
70°	73533	18921	16788
75°	61114	16449	15086
80°	44523	14330	13661
85°	22588	12458	12355



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.6	2.2
10°-20°	543.3	6.6
20°-30°	904.4	11.0
30°-40°	1169.7	14.2
40°-50°	1235.4	15.0
50°-60°	1139.0	13.8
60°-70°	957.2	11.6
70°-80°	750.0	9.1
80°-90°	551.7	6.7
90°-100°	393.2	4.8
100°-110°	252.6	3.1
110°-120°	132.6	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°	1626.3	19.7
0°-40°	2796.0	33.9
0°-60°	5170.4	62.7
0°-90°	7429.2	90.1
90°-120°	778.3	9.4
90°-150°	817.7	9.9
90°-180°	818.0	9.9
0°-180°	8246.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1857	1857	1857	1857	1857	
5°	1862	1861	1851	1875	1875	177
15°	1785	1820	1900	2013	2045	504
25°	1640	1732	1966	2191	2260	756
35°	1436	1596	1950	2149	2178	898
45°	1186	1397	1722	1796	1803	914
55°	898	1116	1347	1439	1469	803
65°	586	802	1020	1145	1182	584
75°	283	522	769	915	963	301
85°	45	305	566	727	779	59
90°	1	224	480	643	694	2
95°	3	162	404	564	614	2
105°	3	53	263	409	457	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°	1857.1	1857.1	1857.1	1857.1	1857.1
2.5°	1871.1	1863.1	1845.1	1861.1	1857.1
5°	1862.1	1861.1	1851.1	1875.1	1875.1
7.5°	1850.1	1854.1	1859.1	1899.1	1902.1
10°	1834.1	1846.1	1871.1	1932.1	1945.1
12.5°	1811.1	1833.1	1881.1	1969.1	1990.1
15°	1785.1	1820.1	1900.1	2013.1	2045.1
17.5°	1755.1	1801.1	1919.1	2067.1	2115.1
20°	1722.1	1782.1	1934.1	2116.1	2169.1
22.5°	1684.1	1759.1	1950.1	2156.1	2216.1
25°	1640.1	1732.1	1966.1	2191.1	2260.1
27.5°	1596.1	1704.1	1975.1	2213.1	2280.1
30°	1544.0	1673.1	1978.1	2216.1	2273.1
32.5°	1493.0	1639.1	1969.1	2195.1	2240.1
35°	1436.0	1596.1	1950.1	2149.1	2178.1
37.5°	1377.0	1550.1	1917.1	2078.1	2096.1
40°	1319.0	1507.0	1866.1	1988.1	1996.1
42.5°	1252.0	1452.0	1800.1	1893.1	1901.1
45°	1186.0	1397.0	1722.1	1796.1	1803.1
47.5°	1116.0	1334.0	1630.1	1699.1	1716.1
50°	1044.0	1265.0	1536.0	1609.1	1627.1
52.5°	974.0	1194.0	1441.0	1524.0	1545.0
55°	898.0	1116.0	1347.0	1439.0	1469.0
57.5°	825.0	1039.0	1256.0	1358.0	1391.0
60°	749.0	960.0	1176.0	1283.0	1313.0
62.5°	669.0	880.0	1094.0	1214.0	1252.0
65°	586.0	802.0	1020.0	1145.0	1182.0
67.5°	513.0	727.0	949.0	1081.0	1123.0
70°	434.0	655.0	887.0	1024.0	1066.0
72.5°	357.0	588.0	825.0	969.0	1014.0
75°	283.0	522.0	769.0	915.0	963.0
77.5°	211.0	461.0	714.0	866.0	914.0
80°	148.0	405.0	663.0	819.0	870.0
82.5°	92.0	355.0	613.0	773.0	825.0
85°	45.0	305.0	566.0	727.0	779.0
87.5°	13.0	261.0	522.0	683.0	734.0
90°	1.0	224.0	480.0	643.0	694.0
92.5°	2.0	191.0	444.0	603.0	657.0
95°	3.0	162.0	404.0	564.0	614.0
97.5°	3.0	134.0	367.0	525.0	574.0
100°	3.0	107.0	331.0	484.0	534.0
102.5°	3.0	81.0	296.0	446.0	494.0
105°	3.0	53.0	263.0	409.0	457.0
107.5°	3.0	23.0	228.0	369.0	417.0
110°	3.0	5.0	194.0	332.0	379.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	3.0	162.0	293.0	340.0
115°	2.0	3.0	126.0	254.0	298.0
117.5°	2.0	2.0	86.0	216.0	261.0
120°	2.0	2.0	45.0	178.0	219.0
122.5°	2.0	1.0	9.0	136.0	181.0
125°	2.0	1.0	0.0	91.0	135.0
127.5°	2.0	1.0	0.0	47.0	92.0
130°	1.0	1.0	0.0	7.0	44.0
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)