

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: P290031

Luminaire Tested: **4SSRK-RB-80-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290031  
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-L950-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 90 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7430.5 lumens  
Efficiency: N/A  
Efficacy: 118.1 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

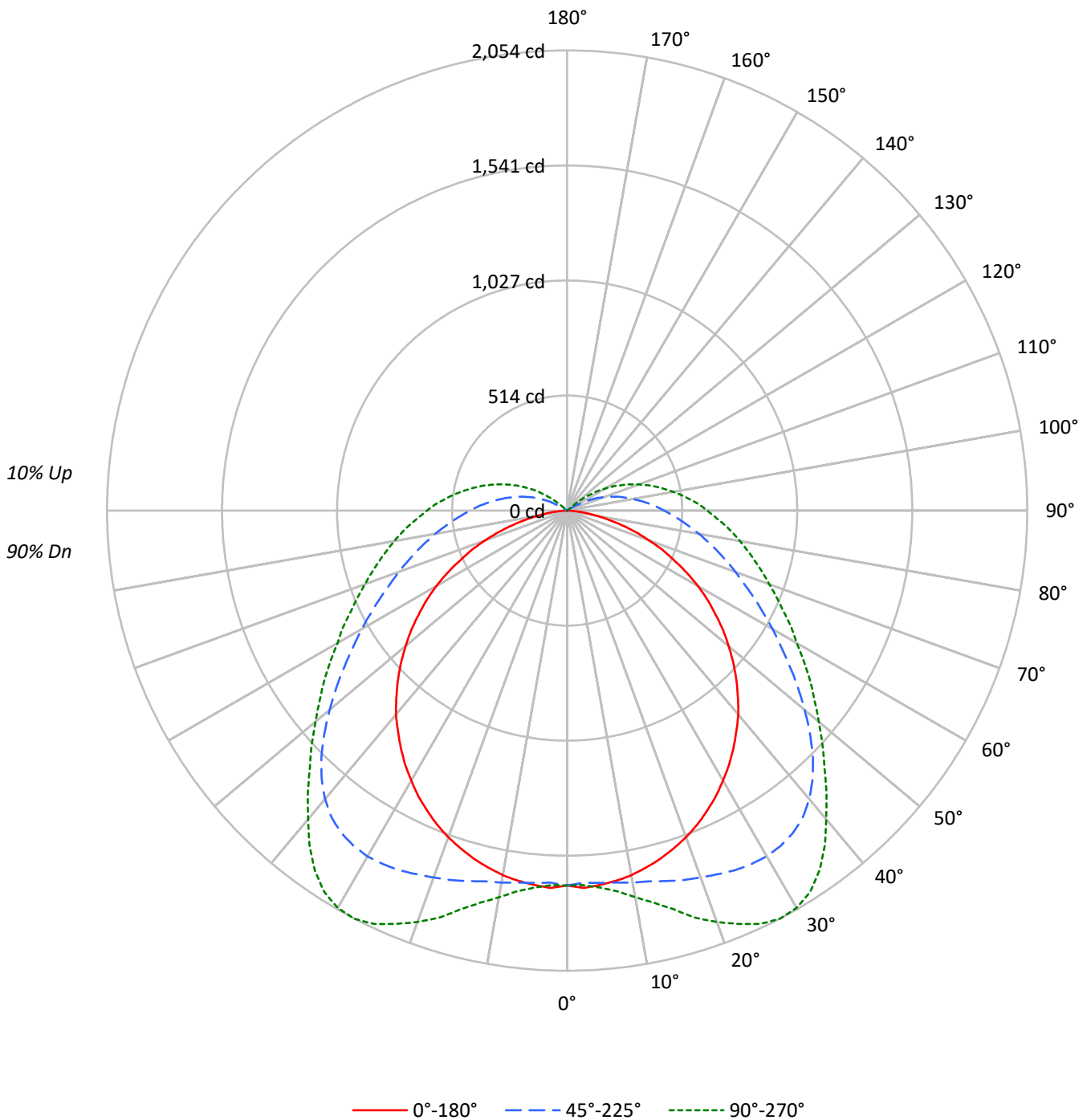
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	108060	108060	108060
5°	108370	86496	81131
10°	107579	73510	67394
15°	106346	64825	59465
20°	105045	58703	54691
25°	103293	54114	50644
30°	101310	50153	46150
35°	99121	46158	40707
40°	96814	41714	34806
45°	93696	36734	29676
50°	90044	31561	25541
55°	85986	26894	22202
60°	81306	23002	19275
65°	74069	19700	16992
70°	66248	17048	15127
75°	55067	14821	13593
80°	40131	12912	12309
85°	20329	11225	11133



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.9	2.2
10°-20°	489.5	6.6
20°-30°	814.9	11.0
30°-40°	1053.9	14.2
40°-50°	1113.1	15.0
50°-60°	1026.3	13.8
60°-70°	862.4	11.6
70°-80°	675.7	9.1
80°-90°	497.1	6.7
90°-100°	354.2	4.8
100°-110°	227.6	3.1
110°-120°	119.4	1.6
120°-130°	34.7	0.5
130°-140°	0.8	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°	1465.2	19.7
0°-40°	2519.1	33.9
0°-60°	4658.5	62.7
0°-90°	6693.7	90.1
90°-120°	701.2	9.4
90°-150°	736.8	9.9
90°-180°	737.0	9.9
0°-180°	7430.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1673	1673	1673	1673	1673	
5°	1678	1677	1668	1689	1689	159
15°	1608	1640	1712	1814	1843	454
25°	1478	1561	1771	1974	2036	681
35°	1294	1438	1757	1936	1962	809
45°	1069	1259	1552	1618	1625	823
55°	809	1006	1214	1297	1324	724
65°	528	723	919	1032	1065	526
75°	255	470	693	824	868	271
85°	40	275	510	655	702	53
90°	1	202	432	579	625	2
95°	3	146	364	508	553	2
105°	3	48	237	368	412	3
115°	2	3	114	229	268	2
125°	2	1	0	82	122	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°	1673.2	1673.2	1673.2	1673.2	1673.2
2.5°	1685.8	1678.6	1662.4	1676.8	1673.2
5°	1677.7	1676.8	1667.8	1689.4	1689.4
7.5°	1666.9	1670.5	1675.0	1711.1	1713.8
10°	1652.5	1663.3	1685.8	1740.8	1752.5
12.5°	1631.8	1651.6	1694.8	1774.1	1793.0
15°	1608.3	1639.9	1712.0	1813.8	1842.6
17.5°	1581.3	1622.8	1729.1	1862.4	1905.7
20°	1551.6	1605.6	1742.6	1906.6	1954.3
22.5°	1517.3	1584.9	1757.0	1942.6	1996.7
25°	1477.7	1560.6	1771.4	1974.2	2036.3
27.5°	1438.0	1535.4	1779.5	1994.0	2054.3
30°	1391.2	1507.4	1782.2	1996.7	2048.0
32.5°	1345.2	1476.8	1774.1	1977.8	2018.3
35°	1293.9	1438.0	1757.0	1936.3	1962.4
37.5°	1240.7	1396.6	1727.3	1872.3	1888.6
40°	1188.5	1357.9	1681.3	1791.2	1798.5
42.5°	1128.1	1308.3	1621.9	1705.6	1712.9
45°	1068.6	1258.7	1551.6	1618.2	1624.6
47.5°	1005.5	1202.0	1468.7	1530.8	1546.2
50°	940.7	1139.8	1384.0	1449.8	1466.0
52.5°	877.6	1075.8	1298.4	1373.2	1392.1
55°	809.1	1005.5	1213.7	1296.6	1323.6
57.5°	743.3	936.2	1131.7	1223.6	1253.3
60°	674.9	865.0	1059.6	1156.0	1183.1
62.5°	602.8	792.9	985.7	1093.8	1128.1
65°	528.0	722.6	919.0	1031.7	1065.0
67.5°	462.2	655.0	855.1	974.0	1011.9
70°	391.0	590.2	799.2	922.7	960.5
72.5°	321.7	529.8	743.3	873.1	913.6
75°	255.0	470.3	692.9	824.4	867.7
77.5°	190.1	415.4	643.3	780.3	823.5
80°	133.4	364.9	597.4	737.9	783.9
82.5°	82.9	319.9	552.3	696.5	743.3
85°	40.5	274.8	510.0	655.0	701.9
87.5°	11.7	235.2	470.3	615.4	661.4
90°	0.9	201.8	432.5	579.4	625.3
92.5°	1.8	172.1	400.1	543.3	592.0
95°	2.7	146.0	364.0	508.2	553.2
97.5°	2.7	120.7	330.7	473.0	517.2
100°	2.7	96.4	298.2	436.1	481.1
102.5°	2.7	73.0	266.7	401.9	445.1
105°	2.7	47.8	237.0	368.5	411.8
107.5°	2.7	20.7	205.4	332.5	375.7
110°	2.7	4.5	174.8	299.1	341.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	2.7	146.0	264.0	306.3
115°	1.8	2.7	113.5	228.9	268.5
117.5°	1.8	1.8	77.5	194.6	235.2
120°	1.8	1.8	40.5	160.4	197.3
122.5°	1.8	0.9	8.1	122.5	163.1
125°	1.8	0.9	0.0	82.0	121.6
127.5°	1.8	0.9	0.0	42.3	82.9
130°	0.9	0.9	0.0	6.3	39.6
132.5°	0.9	0.9	0.0	0.0	1.8
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)