

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: P290030

Luminaire Tested: **4SSRK-RB-80-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290030  
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-L940-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 90 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6976.9 lumens  
Efficiency: N/A  
Efficacy: 110.9 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

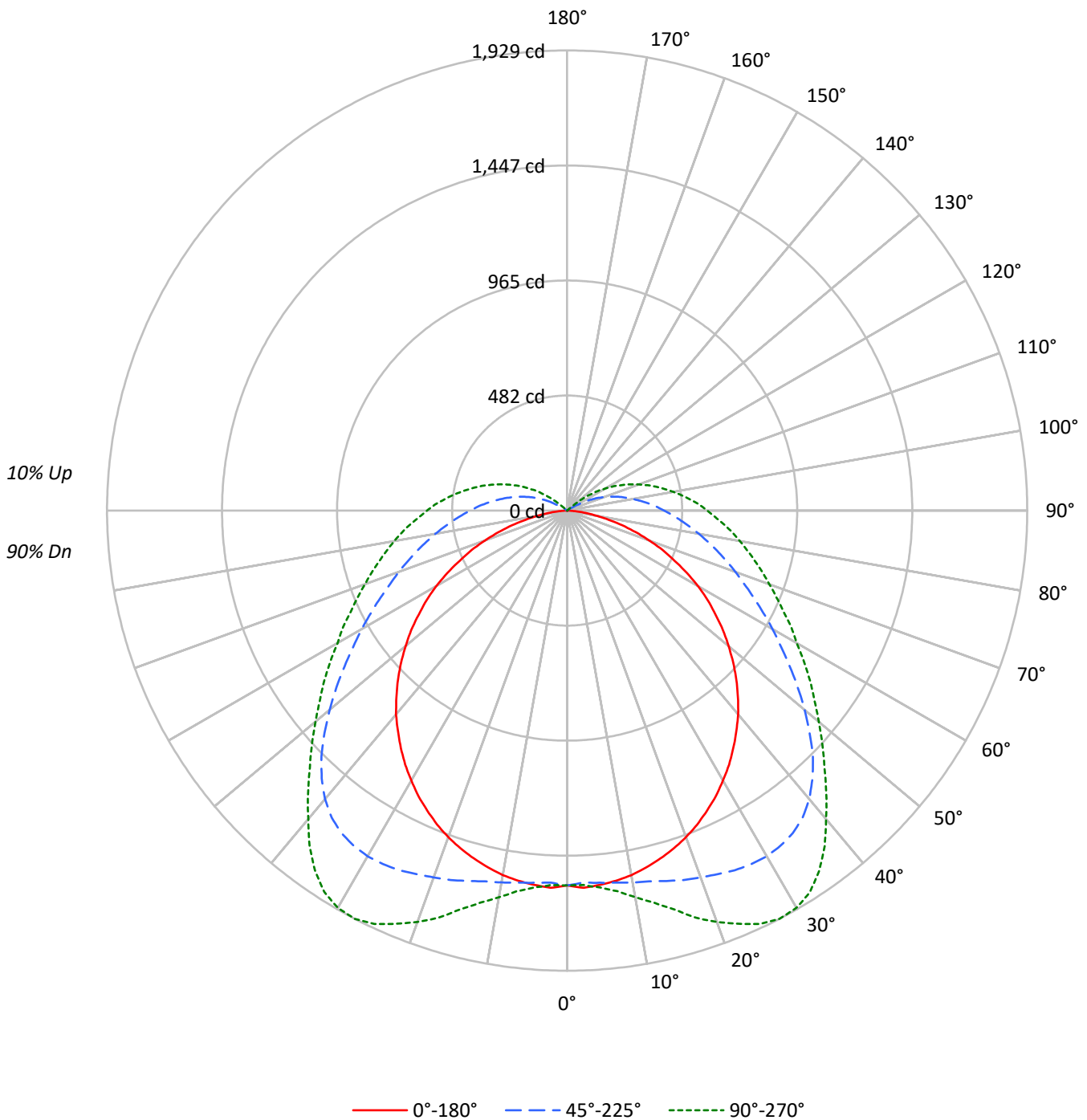
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	101466	101466	101466
5°	101755	81217	76180
10°	101011	69023	63279
15°	99859	60868	55834
20°	98634	55119	51353
25°	96988	50812	47552
30°	95128	47091	43333
35°	93069	43341	38222
40°	90900	39168	32681
45°	87979	34492	27864
50°	84550	29634	23982
55°	80736	25252	20847
60°	76343	21598	18097
65°	69552	18498	15955
70°	62215	16007	14204
75°	51698	13916	12763
80°	37664	12123	11557
85°	19124	10541	10454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.1	2.2
10°-20°	459.6	6.6
20°-30°	765.1	11.0
30°-40°	989.5	14.2
40°-50°	1045.1	15.0
50°-60°	963.6	13.8
60°-70°	809.8	11.6
70°-80°	634.5	9.1
80°-90°	466.8	6.7
90°-100°	332.6	4.8
100°-110°	213.7	3.1
110°-120°	112.1	1.6
120°-130°	32.6	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°	1375.8	19.7
0°-40°	2365.3	33.9
0°-60°	4374.1	62.7
0°-90°	6285.1	90.1
90°-120°	658.4	9.4
90°-150°	691.8	9.9
90°-180°	692.0	9.9
0°-180°	6976.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1575	1574	1566	1586	1586	150
15°	1510	1540	1608	1703	1730	426
25°	1388	1465	1663	1854	1912	640
35°	1215	1350	1650	1818	1843	760
45°	1003	1182	1457	1520	1525	773
55°	760	944	1140	1217	1243	680
65°	496	678	863	969	1000	494
75°	239	442	651	774	815	255
85°	38	258	479	615	659	50
90°	1	190	406	544	587	2
95°	2	137	342	477	520	2
105°	2	45	222	346	387	3
115°	2	2	107	215	252	2
125°	2	1	0	77	114	1
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°	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1582.9	1576.1	1560.9	1574.5	1571.1
5°	1575.3	1574.5	1566.0	1586.3	1586.3
7.5°	1565.2	1568.5	1572.8	1606.6	1609.1
10°	1551.6	1561.8	1582.9	1634.5	1645.5
12.5°	1532.2	1550.8	1591.4	1665.8	1683.6
15°	1510.2	1539.8	1607.5	1703.1	1730.1
17.5°	1484.8	1523.7	1623.5	1748.7	1789.3
20°	1456.9	1507.6	1636.2	1790.2	1835.0
22.5°	1424.7	1488.2	1649.8	1824.0	1874.8
25°	1387.5	1465.3	1663.3	1853.6	1912.0
27.5°	1350.3	1441.6	1670.9	1872.3	1928.9
30°	1306.3	1415.4	1673.4	1874.8	1923.0
32.5°	1263.1	1386.6	1665.8	1857.0	1895.1
35°	1214.9	1350.3	1649.8	1818.1	1842.6
37.5°	1165.0	1311.3	1621.8	1758.0	1773.3
40°	1115.9	1275.0	1578.7	1681.9	1688.7
42.5°	1059.2	1228.4	1522.8	1601.5	1608.3
45°	1003.4	1181.9	1456.9	1519.5	1525.4
47.5°	944.2	1128.6	1379.0	1437.4	1451.8
50°	883.3	1070.2	1299.5	1361.3	1376.5
52.5°	824.0	1010.2	1219.1	1289.3	1307.1
55°	759.7	944.2	1139.6	1217.4	1242.8
57.5°	698.0	879.0	1062.6	1148.9	1176.8
60°	633.7	812.2	994.9	1085.5	1110.8
62.5°	566.0	744.5	925.6	1027.1	1059.2
65°	495.8	678.5	862.9	968.7	1000.0
67.5°	434.0	615.1	802.9	914.6	950.1
70°	367.2	554.1	750.4	866.3	901.9
72.5°	302.0	497.5	698.0	819.8	857.9
75°	239.4	441.6	650.6	774.1	814.7
77.5°	178.5	390.0	604.1	732.7	773.3
80°	125.2	342.6	560.9	692.9	736.0
82.5°	77.8	300.3	518.6	654.0	698.0
85°	38.1	258.0	478.9	615.1	659.1
87.5°	11.0	220.8	441.6	577.8	621.0
90°	0.8	189.5	406.1	544.0	587.1
92.5°	1.7	161.6	375.6	510.2	555.8
95°	2.5	137.1	341.8	477.2	519.5
97.5°	2.5	113.4	310.5	444.2	485.6
100°	2.5	90.5	280.0	409.5	451.8
102.5°	2.5	68.5	250.4	377.3	417.9
105°	2.5	44.8	222.5	346.0	386.6
107.5°	2.5	19.5	192.9	312.2	352.8
110°	2.5	4.2	164.1	280.9	320.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	2.5	137.1	247.9	287.6
115°	1.7	2.5	106.6	214.9	252.1
117.5°	1.7	1.7	72.8	182.7	220.8
120°	1.7	1.7	38.1	150.6	185.3
122.5°	1.7	0.8	7.6	115.1	153.1
125°	1.7	0.8	0.0	77.0	114.2
127.5°	1.7	0.8	0.0	39.8	77.8
130°	0.8	0.8	0.0	5.9	37.2
132.5°	0.8	0.8	0.0	0.0	1.7
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)