

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: P289982

Luminaire Tested: **8SSRK-LW-10-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-LW-10-L940-CD1-U  
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7974.3 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

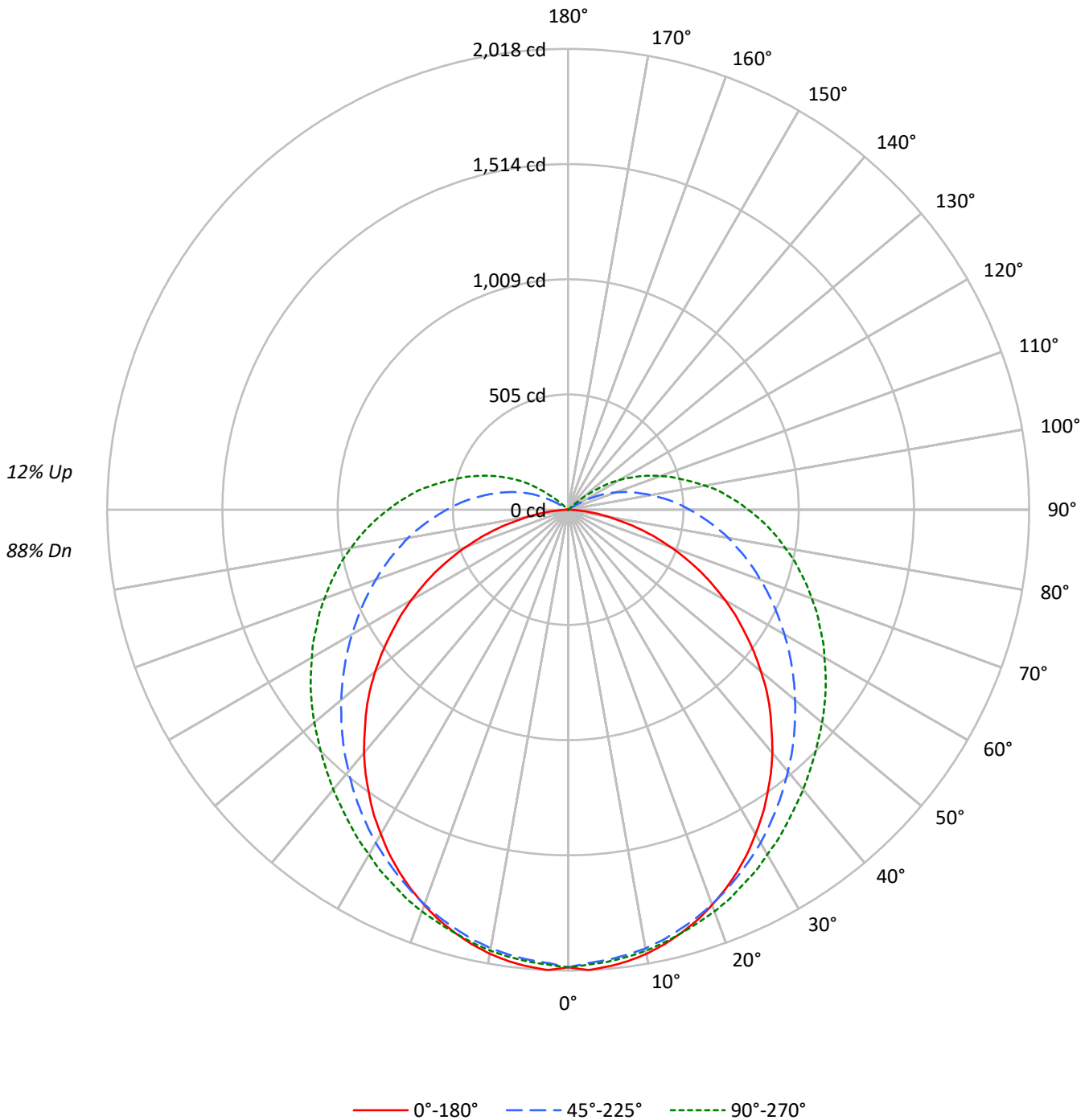
Input Watts (W): 71.9151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	103	97	92	87	99	94	89	84	87	83	79	81	78	75	75	73	71	67
2	93	83	75	68	89	80	73	67	74	68	63	69	64	60	65	61	57	54
3	84	72	63	56	80	70	61	54	65	58	52	60	54	50	56	51	47	44
4	76	63	54	47	73	61	52	46	57	50	44	53	47	42	50	44	40	37
5	70	56	47	40	67	54	46	39	51	43	37	48	41	36	45	39	34	32
6	65	50	41	34	62	49	40	34	46	38	32	43	36	31	40	35	30	28
7	60	46	36	30	57	44	36	30	42	34	28	39	32	27	37	31	26	24
8	55	41	33	27	53	40	32	26	38	31	25	36	29	24	34	28	24	21
9	52	38	30	24	50	37	29	23	35	28	23	33	27	22	31	25	21	19
10	49	35	27	21	47	34	26	21	32	25	21	31	24	20	29	23	19	17

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

	0°	45°	90°
0°	64709	64709	64709
5°	64974	51360	47714
10°	64503	42593	37700
15°	63747	36064	30957
20°	62808	31065	26197
25°	61749	27050	22520
30°	60431	23778	19644
35°	59062	20994	17351
40°	57603	18624	15484
45°	55928	16610	13922
50°	54000	14843	12635
55°	51752	13287	11538
60°	49480	11916	10553
65°	46569	10691	9696
70°	42553	9601	8940
75°	37218	8620	8232
80°	29620	7738	7573
85°	19241	6844	6972



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.2	2.4
10°-20°	540.1	6.8
20°-30°	819.1	10.3
30°-40°	999.6	12.5
40°-50°	1076.6	13.5
50°-60°	1057.4	13.3
60°-70°	955.4	12.0
70°-80°	795.4	10.0
80°-90°	610.1	7.7
90°-100°	441.7	5.5
100°-110°	285.3	3.6
110°-120°	153.8	1.9
120°-130°	48.7	0.6
130°-140°	1.8	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°	1548.5	19.4
0°-40°	2548.1	32.0
0°-60°	4682.0	58.7
0°-90°	7043.0	88.3
90°-120°	880.8	11.0
90°-150°	931.3	11.7
90°-180°	931.0	11.7
0°-180°	7974.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2004	2004	2004	2004	2004	
5°	2008	2001	1979	1993	1987	191
15°	1918	1913	1901	1922	1918	541
25°	1750	1752	1766	1804	1811	806
35°	1520	1540	1593	1656	1673	951
45°	1250	1298	1398	1490	1524	964
55°	947	1040	1194	1327	1376	848
65°	637	775	993	1160	1215	628
75°	322	533	802	988	1051	341
85°	64	327	619	812	879	77
90°	2	246	531	722	787	4
95°	4	178	450	638	700	3
105°	4	63	293	459	516	4
115°	3	3	148	292	347	3
125°	2	1	1	117	167	2
135°	0	0	0	0	0	1
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°	2003.9	2003.9	2003.9	2003.9	2003.9
2.5°	2017.6	2009.2	1987.1	2000.8	1994.4
5°	2008.1	2000.8	1978.6	1993.4	1987.1
7.5°	1994.4	1987.1	1966.0	1980.7	1975.5
10°	1974.4	1967.0	1950.2	1964.9	1960.7
12.5°	1949.1	1943.8	1928.0	1945.9	1941.7
15°	1917.5	1913.3	1900.6	1921.7	1918.5
17.5°	1883.7	1879.5	1872.2	1894.3	1895.3
20°	1841.6	1840.5	1839.5	1867.9	1872.2
22.5°	1798.4	1799.4	1803.6	1838.4	1844.7
25°	1749.9	1752.0	1765.7	1803.6	1811.0
27.5°	1698.2	1705.6	1725.6	1769.9	1781.5
30°	1640.2	1652.9	1684.5	1730.9	1743.5
32.5°	1583.3	1597.0	1639.2	1694.0	1710.9
35°	1520.1	1540.1	1592.8	1656.1	1672.9
37.5°	1456.8	1480.0	1545.4	1613.9	1635.0
40°	1390.4	1421.0	1495.8	1572.8	1600.2
42.5°	1318.7	1361.9	1448.4	1530.6	1561.2
45°	1250.2	1297.6	1397.8	1489.5	1524.3
47.5°	1179.6	1236.5	1347.2	1449.4	1486.3
50°	1101.6	1170.1	1296.6	1409.4	1450.5
52.5°	1025.7	1106.8	1246.0	1368.3	1413.6
55°	946.6	1040.4	1194.3	1327.2	1375.7
57.5°	872.8	973.0	1144.8	1283.9	1335.6
60°	793.8	907.6	1093.1	1243.9	1295.5
62.5°	713.7	842.3	1042.5	1200.7	1258.6
65°	636.7	774.8	993.0	1159.6	1215.4
67.5°	554.5	713.7	944.5	1115.3	1178.5
70°	476.5	650.4	896.0	1073.1	1135.3
72.5°	398.5	589.3	848.6	1030.9	1094.2
75°	321.5	533.4	802.2	987.7	1051.0
77.5°	244.6	474.4	754.8	944.5	1010.9
80°	178.1	422.7	712.6	900.2	964.5
82.5°	121.2	374.2	665.2	858.1	923.4
85°	64.3	326.8	618.8	811.7	879.2
87.5°	19.0	284.6	573.5	766.4	833.8
90°	2.1	245.6	531.3	722.1	787.4
92.5°	3.2	211.9	491.2	682.0	745.3
95°	4.2	178.1	450.1	637.8	699.9
97.5°	4.2	148.6	408.0	592.4	658.8
100°	4.2	120.2	367.9	546.0	607.2
102.5°	4.2	93.8	329.9	499.7	559.7
105°	4.2	63.2	293.1	458.6	515.5
107.5°	4.2	31.6	257.2	418.5	474.4
110°	4.2	6.3	221.4	377.4	431.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	4.2	186.6	334.2	389.0
115°	3.2	3.2	147.6	292.0	346.8
117.5°	3.2	3.2	105.4	253.0	302.5
120°	3.2	2.1	61.1	211.9	261.4
122.5°	2.1	2.1	20.0	164.4	218.2
125°	2.1	1.1	1.1	117.0	166.6
127.5°	2.1	1.1	0.0	65.4	112.8
130°	2.1	1.1	0.0	19.0	64.3
132.5°	2.1	1.1	0.0	0.0	13.7
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)