

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: P290470

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290470  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-SLW-80-L940-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 90 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6793.0 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

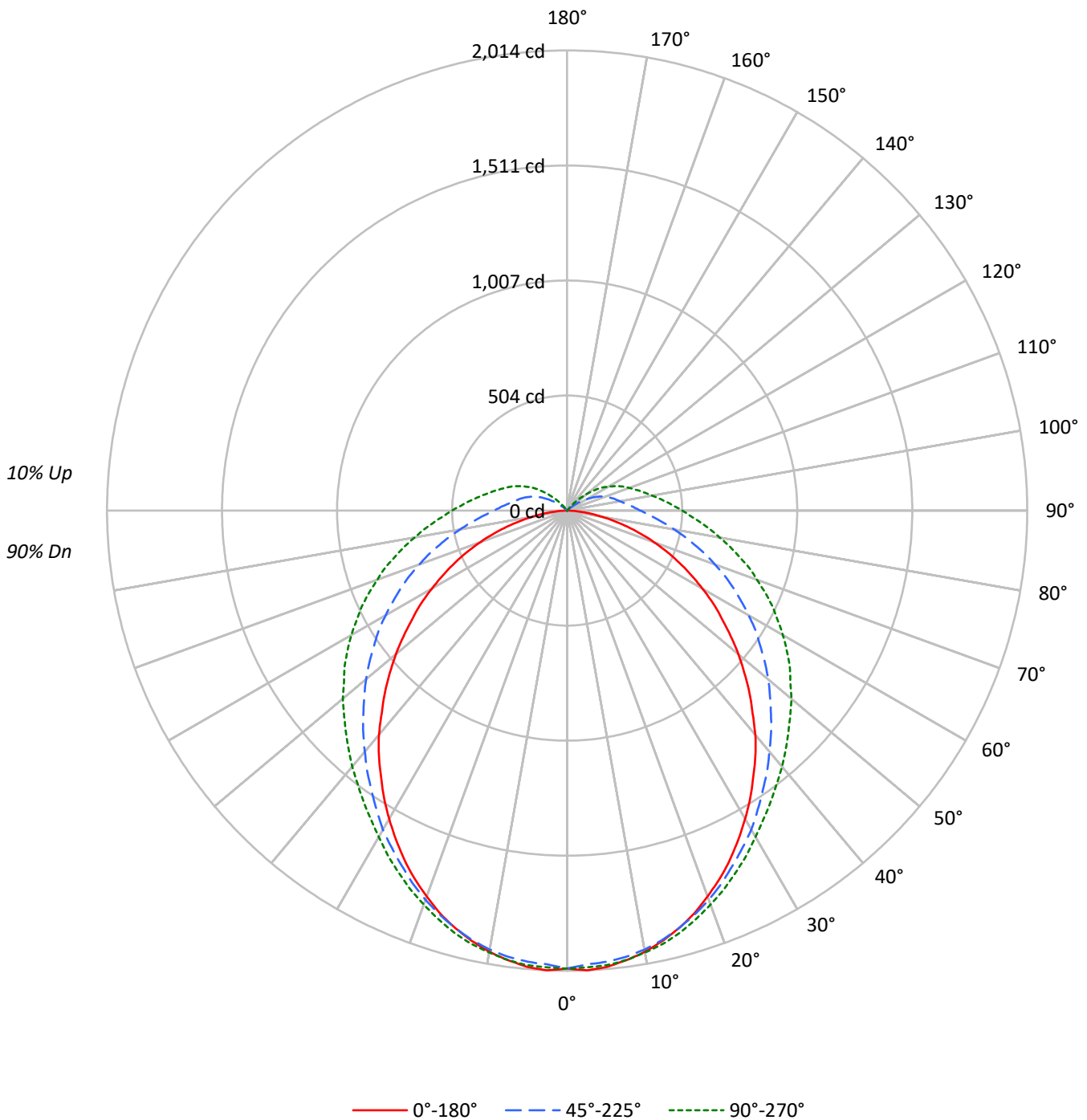
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	71
2	94	85	78	71	91	82	76	70	77	72	67	72	68	64	68	64	61	58
3	86	74	66	59	82	72	64	58	68	61	55	63	58	53	60	55	51	48
4	78	66	56	49	75	64	55	49	60	53	47	56	50	45	53	48	43	41
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	43	36	48	41	35	46	39	34	43	37	33	31
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	21	20

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

	0°	45°	90°
0°	129437	129437	129437
5°	129460	102802	95922
10°	127663	85070	75543
15°	125078	71626	61704
20°	121652	61075	51353
25°	117861	52361	43449
30°	113479	45378	37154
35°	108811	39227	32237
40°	104406	34172	28324
45°	98956	29863	25020
50°	93691	26200	22330
55°	87930	22852	19953
60°	82354	19926	17766
65°	76075	17212	15819
70°	68518	14672	13924
75°	58652	12342	12207
80°	46057	10277	10640
85°	30167	8567	9272



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.4	2.8
10°-20°	535.6	7.9
20°-30°	792.4	11.7
30°-40°	935.9	13.8
40°-50°	972.9	14.3
50°-60°	917.3	13.5
60°-70°	781.9	11.5
70°-80°	591.3	8.7
80°-90°	399.0	5.9
90°-100°	273.9	4.0
100°-110°	196.5	2.9
110°-120°	126.1	1.9
120°-130°	64.3	0.9
130°-140°	16.3	0.2
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1517.5	22.3
0°-40°	2453.4	36.1
0°-60°	4343.5	63.9
0°-90°	6115.7	90.0
90°-120°	596.4	8.8
90°-150°	677.3	10.0
90°-180°	677.0	10.0
0°-180°	6793.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2004	2004	2004	2004	2004	
5°	2004	1999	1982	2001	1997	190
15°	1892	1898	1892	1910	1912	533
25°	1686	1706	1714	1744	1747	776
35°	1420	1454	1493	1538	1554	890
45°	1129	1184	1261	1339	1370	871
55°	827	913	1031	1142	1190	742
65°	542	652	803	936	992	538
75°	272	404	577	724	779	290
85°	60	202	389	533	585	69
90°	1	143	320	456	504	3
95°	1	113	272	392	436	1
105°	2	73	206	297	331	2
115°	2	9	143	224	252	2
125°	2	2	60	140	168	2
135°	2	1	1	44	65	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°	2004.2	2004.2	2004.2	2004.2	2004.2
2.5°	2014.3	2007.6	1988.1	2005.0	2000.8
5°	2004.2	1999.1	1982.2	2000.8	1997.4
7.5°	1984.7	1983.9	1970.3	1989.8	1983.9
10°	1961.0	1961.9	1950.9	1970.3	1964.4
12.5°	1928.9	1932.3	1924.6	1943.3	1942.4
15°	1891.6	1897.6	1891.6	1910.3	1912.0
17.5°	1849.3	1858.7	1854.4	1877.3	1874.7
20°	1796.9	1809.6	1813.0	1835.8	1835.0
22.5°	1744.4	1760.5	1766.4	1790.1	1793.5
25°	1686.1	1705.5	1714.0	1743.6	1747.0
27.5°	1622.6	1648.0	1663.2	1692.8	1700.5
30°	1558.3	1585.4	1612.5	1642.1	1648.8
32.5°	1491.5	1521.1	1552.4	1593.0	1600.6
35°	1420.4	1454.3	1493.2	1538.0	1554.1
37.5°	1353.6	1391.7	1437.3	1489.8	1506.7
40°	1281.7	1320.6	1377.3	1436.5	1463.6
42.5°	1201.3	1253.8	1321.4	1392.5	1416.2
45°	1128.6	1184.4	1261.4	1339.2	1369.7
47.5°	1052.4	1117.6	1204.7	1291.0	1324.0
50°	978.8	1049.9	1148.9	1241.9	1281.7
52.5°	902.7	983.0	1090.5	1193.7	1230.9
55°	827.4	912.8	1031.3	1142.1	1189.5
57.5°	759.7	846.8	978.0	1091.3	1139.6
60°	683.6	784.2	917.9	1039.7	1090.5
62.5°	613.3	715.7	858.7	988.1	1038.9
65°	542.3	652.3	802.9	935.7	991.5
67.5°	475.5	586.3	746.2	884.1	937.4
70°	404.4	524.5	687.8	829.9	884.1
72.5°	339.2	462.8	633.7	777.5	835.8
75°	271.6	403.5	577.0	724.2	779.2
77.5°	211.5	346.0	526.2	674.3	729.2
80°	153.1	293.6	475.5	624.3	677.6
82.5°	104.1	245.3	430.6	578.7	631.1
85°	60.1	202.2	389.2	533.0	584.6
87.5°	22.8	168.4	351.9	493.2	540.6
90°	0.8	143.0	319.8	456.0	504.2
92.5°	0.8	125.2	295.3	422.2	467.0
95°	0.8	113.4	272.4	392.5	436.5
97.5°	1.7	104.1	252.1	366.3	405.2
100°	1.7	94.8	235.2	340.9	378.2
102.5°	1.7	85.4	220.0	318.1	352.8
105°	1.7	72.8	206.4	296.9	330.8
107.5°	1.7	56.7	191.2	279.2	308.8
110°	1.7	41.5	175.1	261.4	290.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	25.4	160.7	243.6	271.6
115°	1.7	9.3	143.0	224.2	252.1
117.5°	1.7	3.4	121.8	205.6	230.1
120°	1.7	2.5	101.5	185.3	209.8
122.5°	1.7	2.5	80.4	163.3	189.5
125°	1.7	2.5	60.1	139.6	167.5
127.5°	1.7	1.7	38.9	115.1	140.4
130°	1.7	1.7	18.6	91.4	115.9
132.5°	1.7	1.7	0.8	66.8	90.5
135°	1.7	0.8	0.8	44.0	65.1
137.5°	1.7	0.8	0.0	21.1	42.3
140°	1.7	0.8	0.0	0.0	16.9
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)