

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: P290471

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290471  
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-L950-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 90 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

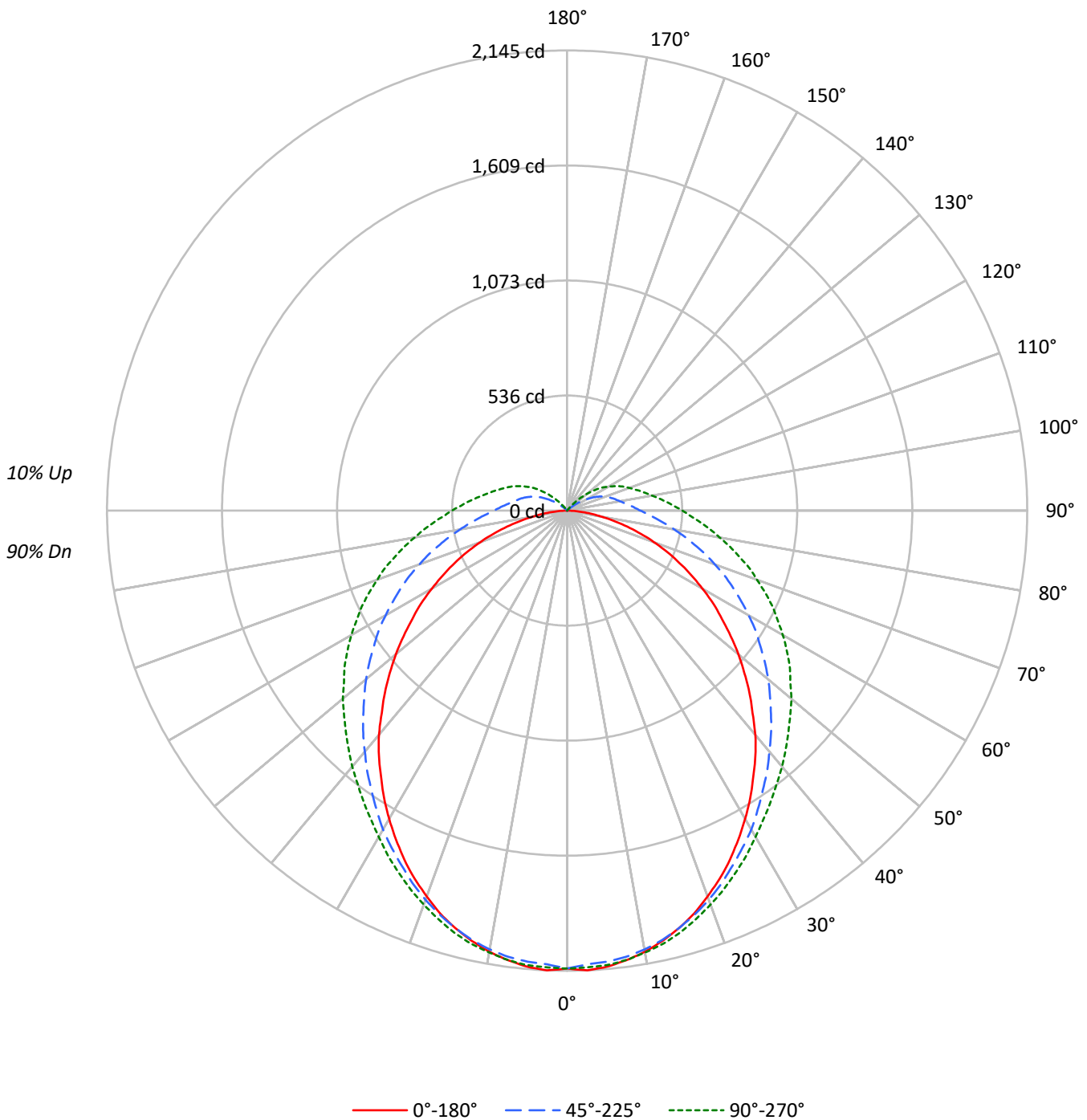
Lumens per Lamp: N/A  
Luminaire Lumens: 7234.6 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

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°	137852	137852	137852
5°	137876	109482	102161
10°	135963	90599	80454
15°	133211	76283	65716
20°	129559	65043	54691
25°	125522	55764	46274
30°	120856	48327	39570
35°	115890	41778	34332
40°	111192	36392	30165
45°	105383	31805	26646
50°	99788	27903	23781
55°	93648	24337	21249
60°	87703	21222	18922
65°	81013	18328	16848
70°	72974	15626	14828
75°	62452	13144	13000
80°	49066	10945	11333
85°	32125	9123	9875



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.7	2.8
10°-20°	570.5	7.9
20°-30°	844.0	11.7
30°-40°	996.7	13.8
40°-50°	1036.1	14.3
50°-60°	976.9	13.5
60°-70°	832.7	11.5
70°-80°	629.7	8.7
80°-90°	424.9	5.9
90°-100°	291.7	4.0
100°-110°	209.2	2.9
110°-120°	134.2	1.9
120°-130°	68.5	0.9
130°-140°	17.4	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°	1616.1	22.3
0°-40°	2612.9	36.1
0°-60°	4625.9	63.9
0°-90°	6513.3	90.0
90°-120°	635.2	8.8
90°-150°	721.3	10.0
90°-180°	721.0	10.0
0°-180°	7234.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2134	2134	2134	2134	2134	
5°	2134	2129	2111	2131	2127	202
15°	2015	2021	2015	2034	2036	567
25°	1796	1816	1825	1857	1861	826
35°	1513	1549	1590	1638	1655	947
45°	1202	1261	1343	1426	1459	927
55°	881	972	1098	1216	1267	791
65°	578	695	855	996	1056	573
75°	289	430	614	771	830	309
85°	64	215	414	568	623	73
90°	1	152	341	486	537	4
95°	1	121	290	418	465	1
105°	2	78	220	316	352	2
115°	2	10	152	239	268	2
125°	2	3	64	149	178	2
135°	2	1	1	47	69	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°	2134.5	2134.5	2134.5	2134.5	2134.5
2.5°	2145.3	2138.1	2117.3	2135.4	2130.9
5°	2134.5	2129.1	2111.0	2130.9	2127.3
7.5°	2113.7	2112.8	2098.4	2119.1	2112.8
10°	2088.5	2089.4	2077.7	2098.4	2092.1
12.5°	2054.3	2057.9	2049.8	2069.6	2068.7
15°	2014.6	2020.9	2014.6	2034.5	2036.3
17.5°	1969.6	1979.5	1975.0	1999.3	1996.6
20°	1913.7	1927.2	1930.8	1955.2	1954.3
22.5°	1857.9	1875.0	1881.3	1906.5	1910.1
25°	1795.7	1816.4	1825.4	1857.0	1860.6
27.5°	1728.1	1755.1	1771.4	1802.9	1811.0
30°	1659.6	1688.5	1717.3	1748.8	1756.0
32.5°	1588.5	1620.0	1653.3	1696.6	1704.7
35°	1512.8	1548.8	1590.3	1638.0	1655.1
37.5°	1441.6	1482.1	1530.8	1586.7	1604.7
40°	1365.0	1406.5	1466.8	1529.9	1558.7
42.5°	1279.4	1335.3	1407.4	1483.0	1508.3
45°	1201.9	1261.4	1343.4	1426.3	1458.7
47.5°	1120.8	1190.2	1283.0	1374.9	1410.1
50°	1042.5	1118.1	1223.6	1322.7	1365.0
52.5°	961.4	1047.0	1161.4	1271.3	1311.0
55°	881.2	972.2	1098.3	1216.3	1266.8
57.5°	809.1	901.9	1041.6	1162.3	1213.6
60°	728.0	835.2	977.6	1107.3	1161.4
62.5°	653.2	762.2	914.5	1052.4	1106.4
65°	577.5	694.7	855.0	996.5	1056.0
67.5°	506.4	624.4	794.7	941.5	998.3
70°	430.7	558.6	732.5	883.9	941.5
72.5°	361.3	492.8	674.8	828.0	890.2
75°	289.2	429.8	614.5	771.3	829.8
77.5°	225.2	368.5	560.4	718.1	776.7
80°	163.1	312.6	506.4	664.9	721.7
82.5°	110.8	261.3	458.6	616.3	672.1
85°	64.0	215.3	414.5	567.6	622.6
87.5°	24.3	179.3	374.8	525.3	575.7
90°	0.9	152.3	340.6	485.6	537.0
92.5°	0.9	133.3	314.4	449.6	497.4
95°	0.9	120.7	290.1	418.1	464.9
97.5°	1.8	110.8	268.5	390.1	431.6
100°	1.8	100.9	250.5	363.1	402.7
102.5°	1.8	91.0	234.3	338.8	375.7
105°	1.8	77.5	219.8	316.2	352.3
107.5°	1.8	60.4	203.6	297.3	328.9
110°	1.8	44.1	186.5	278.4	309.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	27.0	171.2	259.5	289.2
115°	1.8	9.9	152.3	238.8	268.5
117.5°	1.8	3.6	129.7	218.9	245.1
120°	1.8	2.7	108.1	197.3	223.4
122.5°	1.8	2.7	85.6	173.9	201.8
125°	1.8	2.7	64.0	148.7	178.4
127.5°	1.8	1.8	41.4	122.5	149.6
130°	1.8	1.8	19.8	97.3	123.4
132.5°	1.8	1.8	0.9	71.2	96.4
135°	1.8	0.9	0.9	46.9	69.4
137.5°	1.8	0.9	0.0	22.5	45.0
140°	1.8	0.9	0.0	0.0	18.0
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)