

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: P289812

Luminaire Tested: **8SSRK-TS-12-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-TS-12-L930-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8247.2 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

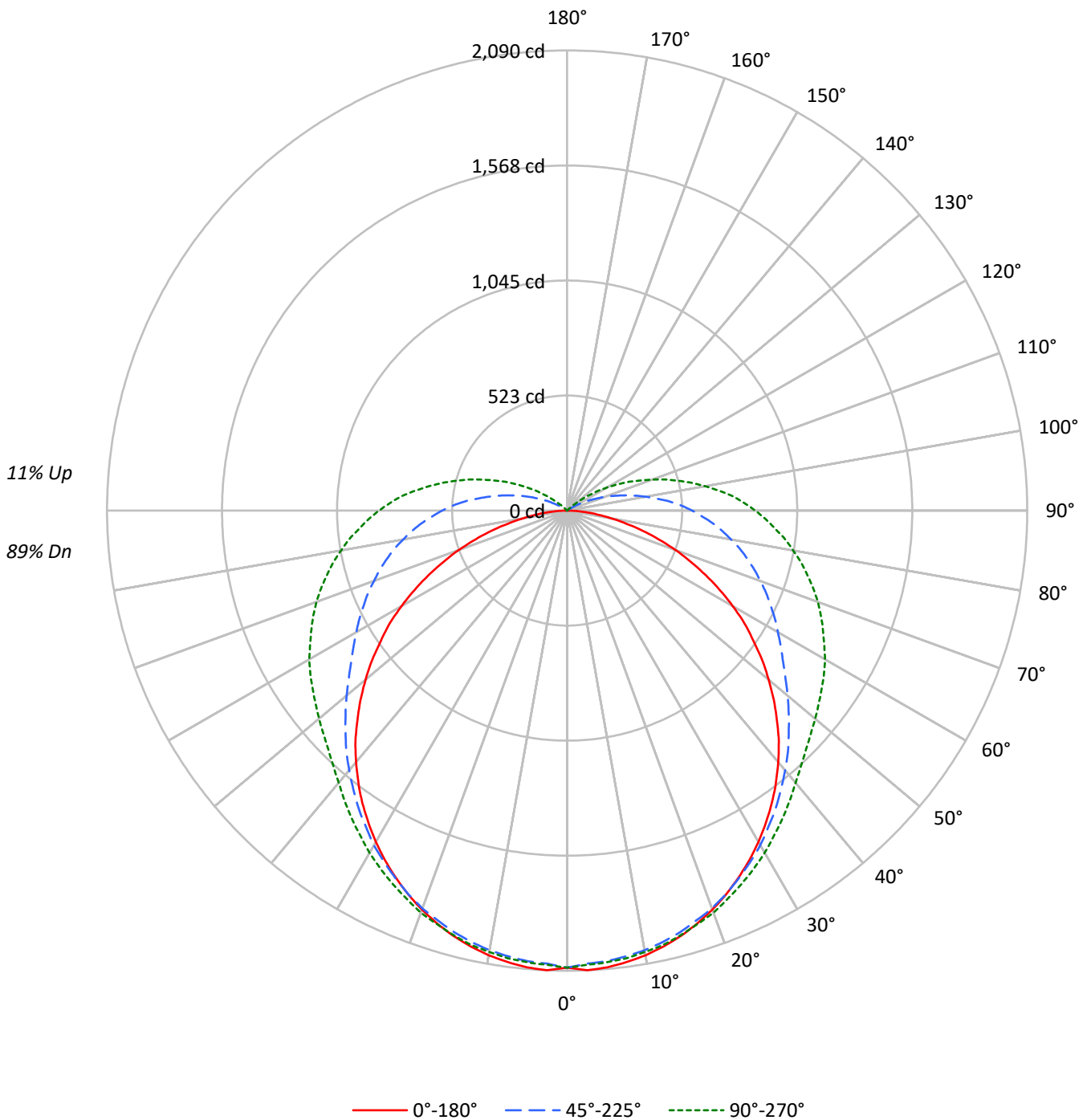
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92	92	92	89
1	103	97	91	87	99	94	89	84	87	83	79	81	78	75	76	73	71	68
2	93	83	75	68	89	80	73	67	75	68	63	70	65	60	65	61	57	54
3	84	72	63	56	80	69	61	54	65	58	52	61	55	50	57	52	47	45
4	76	63	54	46	73	61	52	45	57	50	44	53	47	42	50	45	40	37
5	70	56	47	39	67	54	45	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	41	35	30	28
7	60	46	36	30	57	44	36	29	42	34	28	39	33	28	37	31	27	24
8	56	41	33	27	53	40	32	26	38	31	25	36	29	25	34	28	24	22
9	52	38	29	24	50	37	29	23	35	28	23	33	27	22	31	26	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°	67031	67031	67031
5°	67375	53325	49457
10°	67009	44279	39148
15°	66470	37612	32211
20°	65765	32475	27193
25°	64931	28238	23284
30°	64027	24773	20222
35°	63001	21769	17699
40°	61779	19170	15618
45°	60303	16914	14013
50°	58583	14963	12812
55°	56509	13320	11838
60°	54162	12054	11016
65°	50796	10977	10230
70°	46821	10002	9538
75°	41258	9106	8847
80°	34193	8219	8183
85°	25137	7348	7523



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.4	2.4
10°-20°	562.7	6.8
20°-30°	854.4	10.4
30°-40°	1038.6	12.6
40°-50°	1108.5	13.4
50°-60°	1087.1	13.2
60°-70°	993.2	12.0
70°-80°	842.9	10.2
80°-90°	655.9	8.0
90°-100°	462.5	5.6
100°-110°	274.9	3.3
110°-120°	130.1	1.6
120°-130°	37.7	0.5
130°-140°	2.2	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°	1613.5	19.6
0°-40°	2652.1	32.2
0°-60°	4847.7	58.8
0°-90°	7339.8	89.0
90°-120°	867.5	10.5
90°-150°	907.4	11.0
90°-180°	907.0	11.0
0°-180°	8247.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2082	2075	2054	2066	2060	198
15°	1999	1995	1982	1999	1996	564
25°	1840	1841	1843	1872	1872	848
35°	1622	1630	1652	1692	1706	1014
45°	1348	1371	1423	1499	1534	1040
55°	1034	1078	1197	1353	1412	926
65°	694	784	1020	1214	1282	688
75°	356	540	847	1057	1129	378
85°	84	344	664	875	949	94
90°	6	255	567	781	854	8
95°	6	171	468	676	755	5
105°	5	46	267	453	522	6
115°	4	4	109	249	308	4
125°	3	2	5	83	122	3
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°	2075.8	2075.8	2075.8	2075.8	2075.8
2.5°	2089.8	2082.3	2059.7	2071.5	2065.1
5°	2082.3	2074.8	2054.3	2066.2	2059.7
7.5°	2068.3	2062.9	2042.5	2055.4	2051.1
10°	2051.1	2045.7	2027.4	2042.5	2036.0
12.5°	2027.4	2022.0	2006.9	2022.0	2019.9
15°	1999.4	1995.1	1982.2	1999.4	1996.2
17.5°	1966.0	1962.8	1952.0	1973.6	1969.3
20°	1928.3	1926.2	1923.0	1942.3	1943.4
22.5°	1887.4	1887.4	1885.3	1906.8	1907.9
25°	1840.1	1841.1	1843.3	1872.4	1872.4
27.5°	1791.6	1794.8	1800.2	1828.2	1834.7
30°	1737.8	1743.2	1755.0	1785.1	1794.8
32.5°	1680.7	1689.3	1702.2	1739.9	1749.6
35°	1621.5	1630.1	1651.6	1692.5	1706.5
37.5°	1558.0	1567.7	1595.6	1641.9	1660.2
40°	1491.2	1502.0	1539.7	1597.8	1614.0
42.5°	1423.4	1438.5	1484.7	1547.2	1572.0
45°	1348.0	1370.6	1423.4	1498.7	1534.3
47.5°	1272.6	1299.6	1365.2	1457.8	1500.9
50°	1195.1	1225.3	1307.1	1421.2	1470.8
52.5°	1117.6	1151.0	1250.0	1386.8	1440.6
55°	1033.6	1077.8	1197.3	1353.4	1411.5
57.5°	956.1	1003.5	1149.9	1320.0	1383.5
60°	868.9	929.2	1105.8	1285.6	1352.3
62.5°	782.7	854.9	1063.8	1250.0	1315.7
65°	694.5	783.8	1019.6	1214.5	1282.3
67.5°	607.3	711.7	978.7	1177.9	1247.9
70°	524.3	649.2	933.5	1140.2	1211.3
72.5°	437.1	594.3	891.5	1100.4	1171.4
75°	356.4	540.5	847.4	1057.3	1129.4
77.5°	274.6	489.9	804.3	1014.2	1088.5
80°	205.6	442.5	756.9	969.0	1042.2
82.5°	140.0	395.1	710.6	922.7	999.2
85°	84.0	344.5	664.3	875.3	948.6
87.5°	37.7	300.4	613.7	826.9	903.3
90°	6.5	255.2	567.4	780.6	853.8
92.5°	7.5	214.3	520.0	731.1	804.3
95°	6.5	171.2	468.4	676.2	754.8
97.5°	6.5	134.6	413.4	622.3	694.5
100°	5.4	100.1	360.7	565.3	636.3
102.5°	5.4	71.1	313.3	509.3	580.3
105°	5.4	46.3	267.0	453.3	522.2
107.5°	5.4	25.8	221.8	399.5	469.4
110°	5.4	9.7	180.9	351.0	409.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.3	4.3	141.0	297.2	357.5
115°	4.3	4.3	108.7	248.7	307.9
117.5°	4.3	3.2	74.3	203.5	257.3
120°	4.3	3.2	46.3	162.6	208.9
122.5°	3.2	2.2	22.6	120.6	166.9
125°	3.2	2.2	5.4	82.9	121.7
127.5°	3.2	1.1	0.0	49.5	84.0
130°	2.2	1.1	0.0	23.7	49.5
132.5°	2.2	1.1	0.0	4.3	21.5
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)