

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: P289768

Luminaire Tested: **4SSRK-TS-80-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289768  
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: 4SSRK-TS-80-L830-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7404.5 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

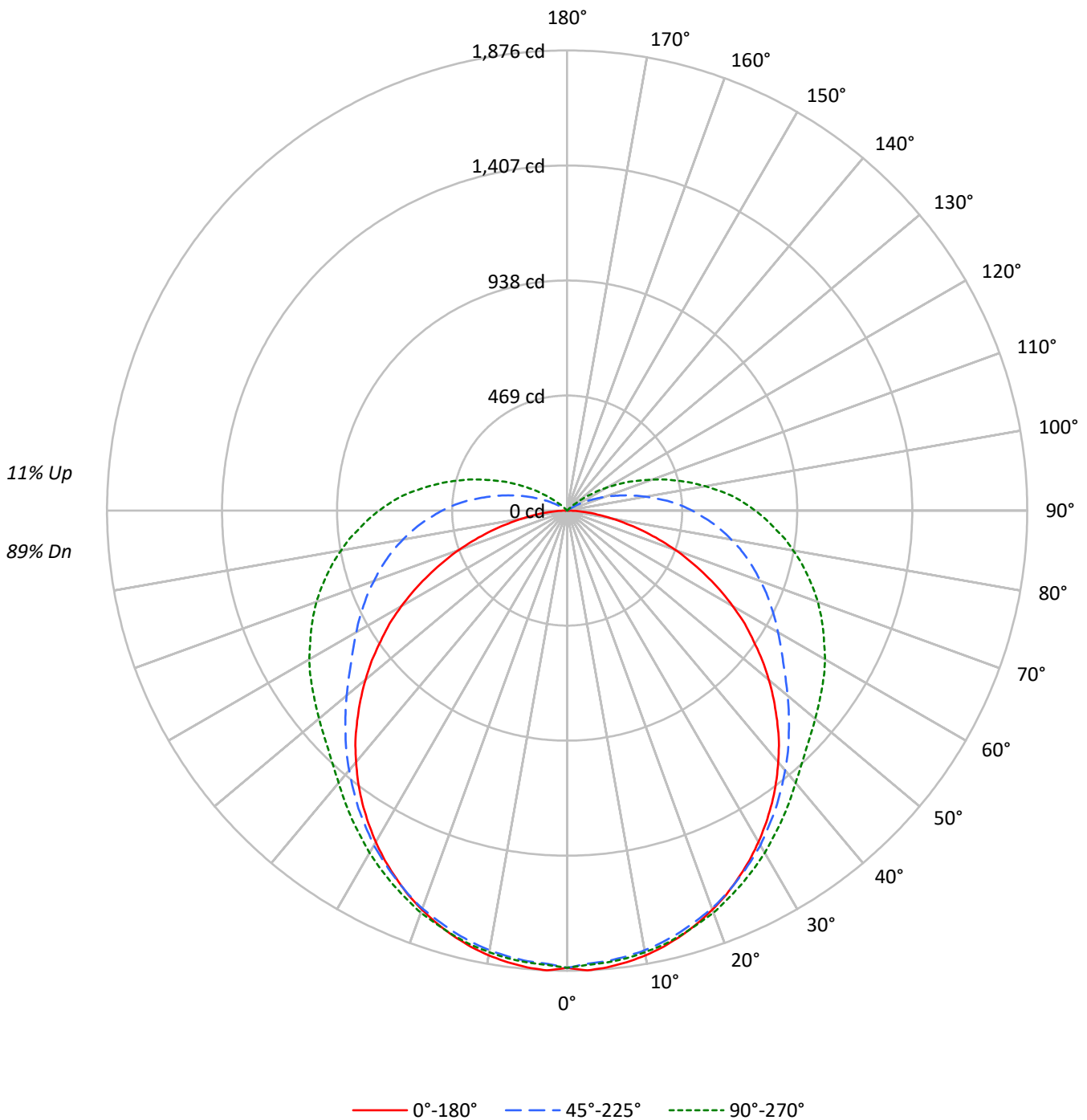
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	120370	120370	120370
5°	120765	95655	88810
10°	119883	79375	70298
15°	118697	67389	57838
20°	117211	58161	48831
25°	115477	50555	41810
30°	113617	44342	36311
35°	111523	38957	31783
40°	109057	34296	28042
45°	106120	30254	25163
50°	102708	26761	23006
55°	98621	23818	21258
60°	93980	21552	19780
65°	87466	19623	18369
70°	79768	17878	17127
75°	69104	16273	15885
80°	55533	14688	14693
85°	37847	13127	13507



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.3	2.4
10°-20°	505.2	6.8
20°-30°	767.1	10.4
30°-40°	932.5	12.6
40°-50°	995.2	13.4
50°-60°	976.0	13.2
60°-70°	891.7	12.0
70°-80°	756.8	10.2
80°-90°	588.9	8.0
90°-100°	415.2	5.6
100°-110°	246.8	3.3
110°-120°	116.8	1.6
120°-130°	33.9	0.5
130°-140°	2.0	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°	1448.7	19.6
0°-40°	2381.1	32.2
0°-60°	4352.4	58.8
0°-90°	6589.8	89.0
90°-120°	778.9	10.5
90°-150°	814.7	11.0
90°-180°	815.0	11.0
0°-180°	7404.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1864	1864	1864	1864	1864	
5°	1870	1863	1844	1855	1849	177
15°	1795	1791	1780	1795	1792	506
25°	1652	1653	1655	1681	1681	762
35°	1456	1464	1483	1520	1532	910
45°	1210	1231	1278	1346	1378	934
55°	928	968	1075	1215	1267	831
65°	624	704	915	1090	1151	618
75°	320	485	761	949	1014	339
85°	75	309	596	786	852	84
90°	6	229	509	701	767	7
95°	6	154	420	607	678	5
105°	5	42	240	407	469	5
115°	4	4	98	223	276	4
125°	3	2	5	74	109	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



TEST NUMBER: P289768

CATALOG NUMBER: 4SSRK-TS-80-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1863.8	1863.8	1863.8	1863.8	1863.8
2.5°	1876.3	1869.6	1849.3	1859.9	1854.1
5°	1869.6	1862.8	1844.4	1855.1	1849.3
7.5°	1857.0	1852.2	1833.8	1845.4	1841.5
10°	1841.5	1836.7	1820.3	1833.8	1828.0
12.5°	1820.3	1815.4	1801.9	1815.4	1813.5
15°	1795.1	1791.3	1779.7	1795.1	1792.2
17.5°	1765.2	1762.3	1752.6	1771.9	1768.1
20°	1731.3	1729.4	1726.5	1743.9	1744.9
22.5°	1694.6	1694.6	1692.7	1712.0	1713.0
25°	1652.0	1653.0	1654.9	1681.1	1681.1
27.5°	1608.5	1611.4	1616.3	1641.4	1647.2
30°	1560.2	1565.0	1575.7	1602.7	1611.4
32.5°	1509.0	1516.7	1528.3	1562.1	1570.8
35°	1455.8	1463.5	1482.9	1519.6	1532.2
37.5°	1398.8	1407.5	1432.6	1474.2	1490.6
40°	1338.8	1348.5	1382.3	1434.5	1449.0
42.5°	1277.9	1291.5	1333.0	1389.1	1411.3
45°	1210.3	1230.6	1277.9	1345.6	1377.5
47.5°	1142.6	1166.8	1225.7	1308.9	1347.5
50°	1073.0	1100.1	1173.5	1276.0	1320.5
52.5°	1003.4	1033.4	1122.3	1245.1	1293.4
55°	928.0	967.6	1074.9	1215.1	1267.3
57.5°	858.4	900.9	1032.4	1185.1	1242.2
60°	780.1	834.2	992.8	1154.2	1214.1
62.5°	702.8	767.5	955.1	1122.3	1181.3
65°	623.5	703.7	915.4	1090.4	1151.3
67.5°	545.2	639.0	878.7	1057.5	1120.4
70°	470.8	582.9	838.1	1023.7	1087.5
72.5°	392.5	533.6	800.4	987.9	1051.7
75°	320.0	485.3	760.8	949.3	1014.0
77.5°	246.5	439.8	722.1	910.6	977.3
80°	184.6	397.3	679.6	870.0	935.7
82.5°	125.7	354.8	638.0	828.4	897.1
85°	75.4	309.3	596.4	785.9	851.6
87.5°	33.8	269.7	551.0	742.4	811.0
90°	5.8	229.1	509.4	700.8	766.6
92.5°	6.8	192.4	466.9	656.4	722.1
95°	5.8	153.7	420.5	607.1	677.6
97.5°	5.8	120.8	371.2	558.7	623.5
100°	4.8	89.9	323.8	507.5	571.3
102.5°	4.8	63.8	281.3	457.2	521.0
105°	4.8	41.6	239.7	407.0	468.8
107.5°	4.8	23.2	199.1	358.6	421.5
110°	4.8	8.7	162.4	315.1	367.3



TEST NUMBER: P289768

CATALOG NUMBER: 4SSRK-TS-80-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.9	3.9	126.6	266.8	320.9
115°	3.9	3.9	97.6	223.3	276.5
117.5°	3.9	2.9	66.7	182.7	231.0
120°	3.9	2.9	41.6	146.0	187.5
122.5°	2.9	1.9	20.3	108.3	149.8
125°	2.9	1.9	4.8	74.4	109.2
127.5°	2.9	1.0	0.0	44.5	75.4
130°	1.9	1.0	0.0	21.3	44.5
132.5°	1.9	1.0	0.0	3.9	19.3
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)