

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: P289799

Luminaire Tested: **8SSRK-TS-80-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289799  
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-80-L950-CD1-U  
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7008.1 lumens  
Efficiency: N/A  
Efficacy: 123.7 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

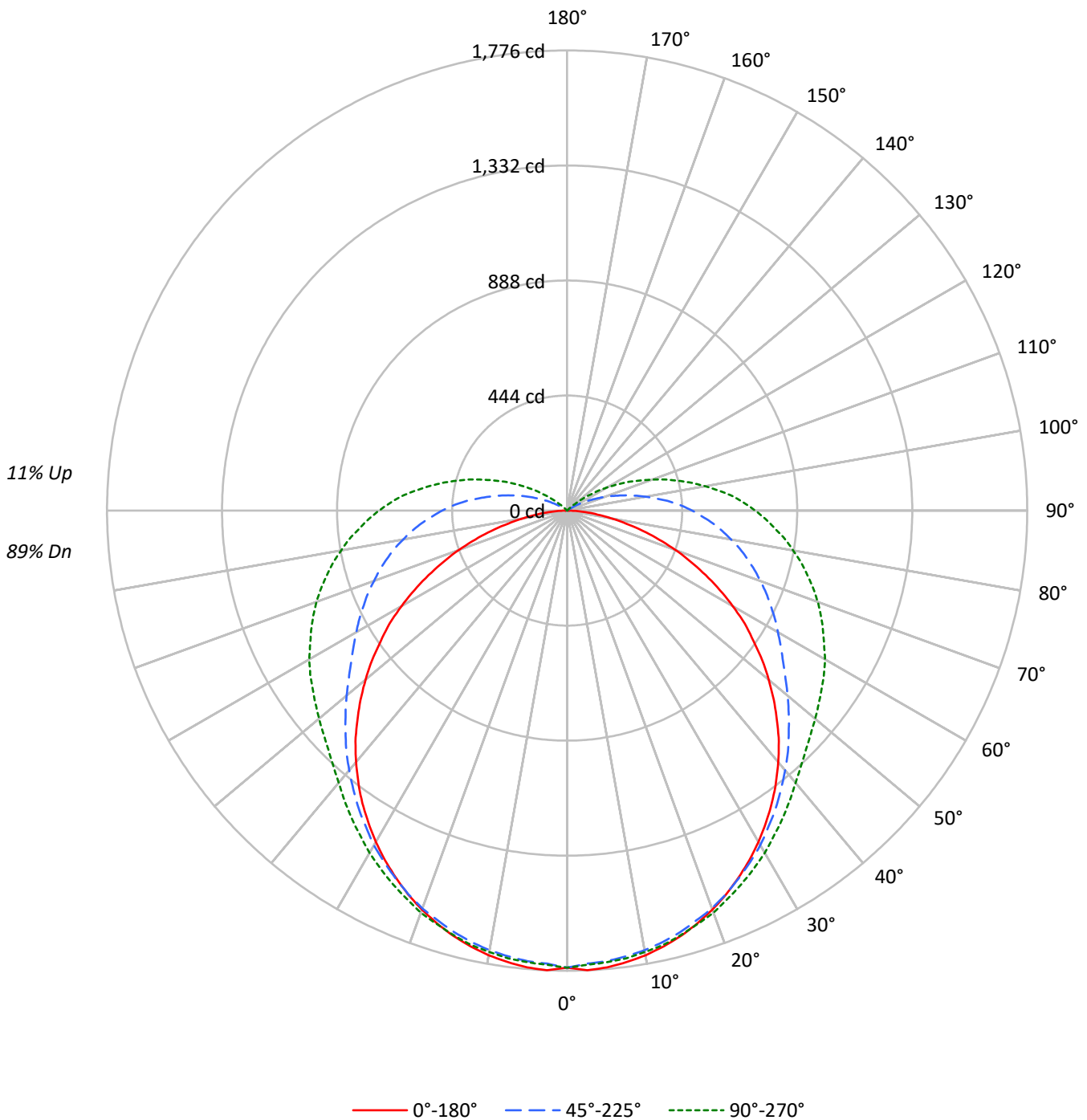
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	56962	56962	56962
5°	57254	45315	42026
10°	56940	37627	33266
15°	56483	31962	27372
20°	55885	27597	23107
25°	55175	23995	19786
30°	54407	21051	17184
35°	53537	18499	15041
40°	52499	16289	13271
45°	51244	14372	11908
50°	49784	12715	10887
55°	48018	11319	10060
60°	46021	10243	9361
65°	43160	9328	8693
70°	39793	8499	8105
75°	35053	7737	7518
80°	29071	6985	6953
85°	21366	6244	6392



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.9	2.4
10°-20°	478.1	6.8
20°-30°	726.1	10.4
30°-40°	882.6	12.6
40°-50°	941.9	13.4
50°-60°	923.8	13.2
60°-70°	844.0	12.0
70°-80°	716.3	10.2
80°-90°	557.4	8.0
90°-100°	393.0	5.6
100°-110°	233.6	3.3
110°-120°	110.6	1.6
120°-130°	32.0	0.5
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°	1371.1	19.6
0°-40°	2253.7	32.2
0°-60°	4119.4	58.8
0°-90°	6237.0	89.0
90°-120°	737.2	10.5
90°-150°	771.1	11.0
90°-180°	771.0	11.0
0°-180°	7008.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1770	1763	1746	1756	1750	168
15°	1699	1695	1684	1699	1696	479
25°	1564	1564	1566	1591	1591	721
35°	1378	1385	1404	1438	1450	862
45°	1146	1165	1210	1274	1304	884
55°	878	916	1017	1150	1200	787
65°	590	666	866	1032	1090	585
75°	303	459	720	898	960	321
85°	71	293	564	744	806	80
90°	6	217	482	663	726	7
95°	6	146	398	575	641	4
105°	5	39	227	385	444	5
115°	4	4	92	211	262	4
125°	3	2	5	70	103	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°	1764.0	1764.0	1764.0	1764.0	1764.0
2.5°	1775.9	1769.5	1750.2	1760.3	1754.8
5°	1769.5	1763.1	1745.7	1755.7	1750.2
7.5°	1757.6	1753.0	1735.6	1746.6	1742.9
10°	1742.9	1738.4	1722.8	1735.6	1730.1
12.5°	1722.8	1718.2	1705.4	1718.2	1716.4
15°	1699.0	1695.4	1684.4	1699.0	1696.3
17.5°	1670.6	1667.9	1658.8	1677.1	1673.4
20°	1638.6	1636.8	1634.1	1650.5	1651.4
22.5°	1603.9	1603.9	1602.0	1620.3	1621.2
25°	1563.6	1564.5	1566.3	1591.1	1591.1
27.5°	1522.4	1525.2	1529.8	1553.5	1559.0
30°	1476.7	1481.3	1491.3	1516.9	1525.2
32.5°	1428.2	1435.5	1446.5	1478.5	1486.7
35°	1377.9	1385.2	1403.5	1438.3	1450.2
37.5°	1323.9	1332.1	1355.9	1395.3	1410.8
40°	1267.2	1276.3	1308.3	1357.7	1371.5
42.5°	1209.5	1222.3	1261.7	1314.7	1335.8
45°	1145.5	1164.7	1209.5	1273.6	1303.8
47.5°	1081.4	1104.3	1160.1	1238.8	1275.4
50°	1015.6	1041.2	1110.7	1207.7	1249.8
52.5°	949.7	978.1	1062.2	1178.4	1224.2
55°	878.3	915.8	1017.4	1150.1	1199.5
57.5°	812.5	852.7	977.1	1121.7	1175.7
60°	738.3	789.6	939.6	1092.4	1149.1
62.5°	665.1	726.4	903.9	1062.2	1118.0
65°	590.1	666.1	866.4	1032.0	1089.7
67.5°	516.0	604.8	831.7	1000.9	1060.4
70°	445.6	551.7	793.2	968.9	1029.3
72.5°	371.5	505.0	757.6	935.1	995.4
75°	302.8	459.3	720.0	898.5	959.8
77.5°	233.3	416.3	683.4	861.9	925.0
80°	174.8	376.0	643.2	823.4	885.6
82.5°	118.9	335.8	603.8	784.1	849.0
85°	71.4	292.8	564.5	743.8	806.0
87.5°	32.0	255.3	521.5	702.7	767.6
90°	5.5	216.8	482.2	663.3	725.5
92.5°	6.4	182.1	441.9	621.2	683.4
95°	5.5	145.5	398.0	574.6	641.4
97.5°	5.5	114.4	351.3	528.8	590.1
100°	4.6	85.1	306.5	480.3	540.7
102.5°	4.6	60.4	266.2	432.8	493.1
105°	4.6	39.3	226.9	385.2	443.7
107.5°	4.6	22.0	188.5	339.4	398.9
110°	4.6	8.2	153.7	298.3	347.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	3.7	119.9	252.5	303.8
115°	3.7	3.7	92.4	211.3	261.7
117.5°	3.7	2.7	63.1	172.9	218.7
120°	3.7	2.7	39.3	138.2	177.5
122.5°	2.7	1.8	19.2	102.5	141.8
125°	2.7	1.8	4.6	70.4	103.4
127.5°	2.7	0.9	0.0	42.1	71.4
130°	1.8	0.9	0.0	20.1	42.1
132.5°	1.8	0.9	0.0	3.7	18.3
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)