

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: P188635

Luminaire Tested: **24SR-LD2-64-C-UNV-L850-CD1-SO-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188635  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24785)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-64-C-UNV-L850-CD1-SO-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH STORARO ORANGE SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

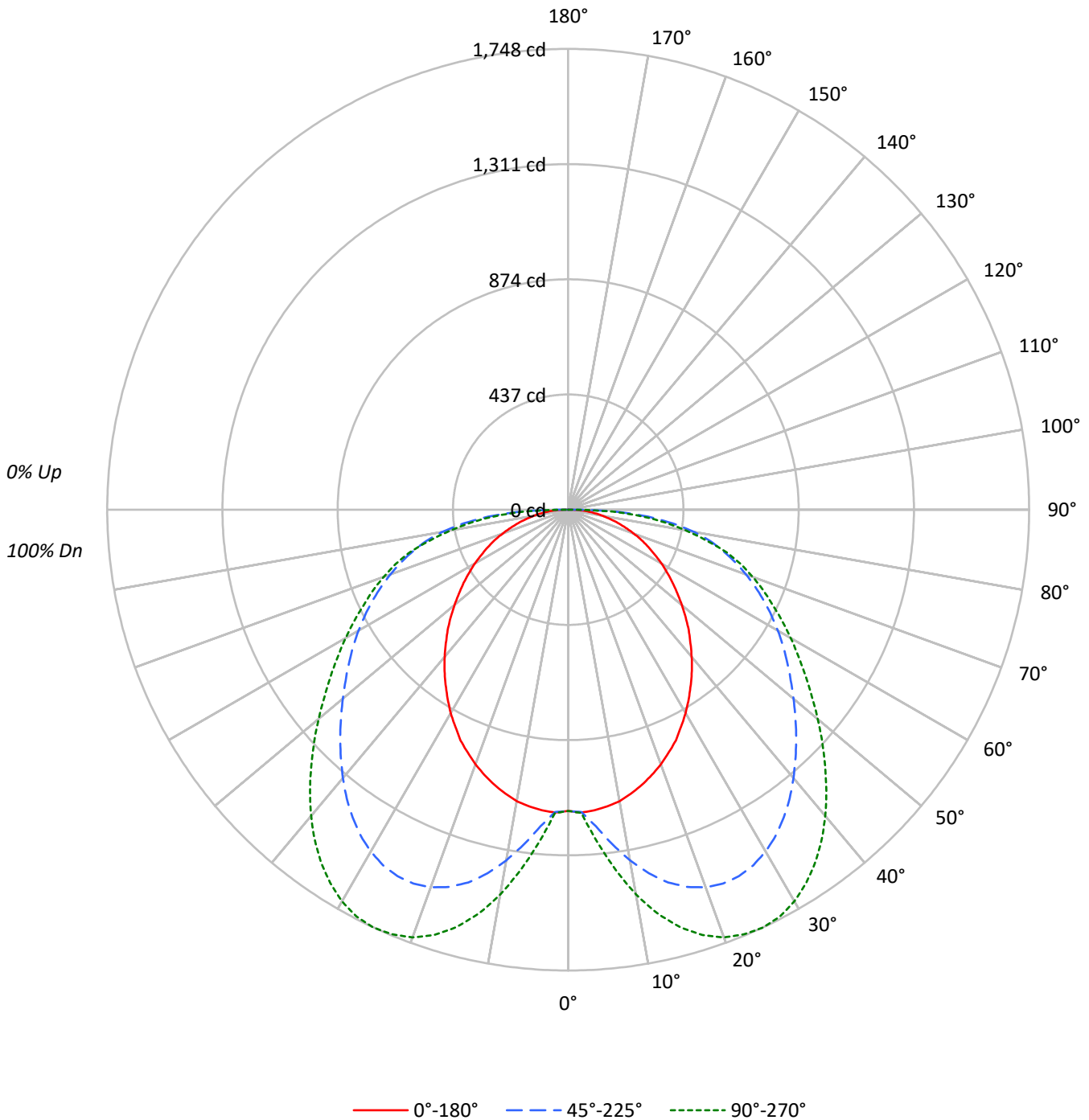
Lumens per Lamp: N/A  
Luminaire Lumens: 5280.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.85 / 1.72  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 55.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	107	101	96	91	104	99	94	90	94	90	87	90	87	84	87	84	82
2	96	87	79	72	93	85	77	71	81	75	70	78	73	68	74	70	66
3	87	75	66	59	84	74	65	58	70	63	57	68	61	56	65	60	55
4	79	66	56	49	77	65	56	49	62	54	48	60	53	47	57	52	47
5	72	59	49	42	70	57	48	42	55	47	41	53	46	41	51	45	40
6	67	53	43	36	65	52	43	36	50	42	36	48	41	35	46	40	35
7	62	47	38	32	60	47	38	32	45	37	31	43	36	31	42	36	31
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27
9	53	39	31	25	52	39	31	25	38	30	25	37	30	25	35	29	24
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22

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

	0°	45°	90°
0°	1537	1537	1537
5°	1546	1627	1708
10°	1533	1845	2025
15°	1505	2039	2283
20°	1471	2182	2472
25°	1433	2276	2596
30°	1384	2325	2665
35°	1331	2341	2683
40°	1279	2334	2664
45°	1229	2327	2622
50°	1177	2334	2586
55°	1135	2381	2577
60°	1100	2470	2623
65°	1069	2609	2725
70°	1041	2822	2929
75°	1015	3169	3226
80°	1018	3748	3507
85°	1127	4705	4255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.5	2.2
10°-20°	399.2	7.6
20°-30°	668.5	12.7
30°-40°	837.0	15.9
40°-50°	878.1	16.6
50°-60°	829.7	15.7
60°-70°	726.3	13.8
70°-80°	560.9	10.6
80°-90°	261.7	5.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	1186.2	22.5
0°-40°	2023.2	38.3
0°-60°	3731.0	70.7
0°-90°	5280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5280.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1144	1143	1205	1250	1265	109
15°	1080	1232	1464	1596	1639	304
25°	966	1239	1533	1689	1748	443
35°	810	1132	1425	1579	1634	507
45°	646	960	1223	1341	1378	498
55°	484	798	1015	1080	1099	433
65°	336	653	820	842	856	333
75°	195	489	610	615	620	207
85°	73	257	305	282	276	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1149.8	1148.0	1146.2	1142.5	1140.7	1140.7	1140.7	1140.7	1142.5	1148.0	1151.6
5°	1144.3	1144.3	1140.7	1138.9	1140.7	1146.2	1155.3	1169.9	1184.5	1204.6	1221.0
7.5°	1135.2	1133.4	1131.6	1133.4	1149.8	1173.5	1197.3	1224.6	1250.2	1279.4	1303.1
10°	1122.4	1120.6	1122.4	1137.0	1169.9	1208.2	1242.9	1277.6	1312.2	1350.6	1383.4
12.5°	1102.4	1102.4	1109.7	1142.5	1188.1	1235.6	1281.2	1325.0	1368.8	1412.6	1451.0
15°	1080.5	1082.3	1100.5	1148.0	1204.6	1259.3	1312.2	1363.3	1414.5	1463.7	1505.7
17.5°	1054.9	1058.6	1089.6	1148.0	1211.9	1275.7	1336.0	1392.5	1447.3	1500.2	1544.0
20°	1027.5	1031.2	1076.8	1144.3	1215.5	1284.9	1348.7	1410.8	1469.2	1524.0	1569.6
22.5°	996.5	1002.0	1060.4	1133.4	1211.9	1286.7	1352.4	1416.3	1476.5	1534.9	1580.5
25°	965.5	972.8	1040.3	1118.8	1200.9	1277.6	1346.9	1410.8	1474.7	1533.1	1578.7
27.5°	927.1	939.9	1016.6	1096.9	1184.5	1261.1	1330.5	1398.0	1461.9	1520.3	1565.9
30°	890.6	907.1	987.4	1071.3	1160.8	1237.4	1306.8	1374.3	1438.2	1496.6	1542.2
32.5°	850.5	870.6	954.5	1042.1	1129.7	1204.6	1275.7	1343.3	1407.1	1465.6	1509.4
35°	810.3	834.1	919.8	1009.3	1095.1	1169.9	1239.2	1306.8	1368.8	1425.4	1467.4
37.5°	770.2	795.7	881.5	972.8	1054.9	1127.9	1197.3	1263.0	1326.8	1379.8	1421.8
40°	728.2	757.4	843.2	930.8	1012.9	1084.1	1153.5	1217.3	1277.6	1328.7	1368.8
42.5°	686.2	719.1	804.9	890.6	969.1	1038.5	1107.8	1169.9	1226.5	1275.7	1314.1
45°	646.1	678.9	762.9	848.7	925.3	994.7	1062.2	1122.4	1177.2	1222.8	1259.3
47.5°	604.1	640.6	724.6	808.5	881.5	950.9	1016.6	1073.2	1126.1	1168.1	1202.7
50°	562.1	602.3	684.4	766.5	841.4	908.9	972.8	1027.5	1076.8	1115.1	1148.0
52.5°	522.0	564.0	647.9	728.2	801.2	868.7	930.8	983.7	1029.4	1064.0	1093.2
55°	483.7	527.5	611.4	689.9	764.7	830.4	888.8	939.9	981.9	1014.8	1040.3
57.5°	445.3	492.8	576.7	657.0	728.2	793.9	850.5	897.9	936.3	967.3	989.2
60°	408.8	458.1	543.9	622.4	693.5	757.4	812.2	856.0	892.5	918.0	934.4
62.5°	370.5	423.4	509.2	589.5	660.7	720.9	773.8	815.8	846.8	868.7	883.3
65°	335.8	388.7	476.4	556.7	624.2	682.6	731.9	772.0	801.2	819.5	828.6
67.5°	301.1	355.9	443.5	522.0	587.7	644.3	689.9	728.2	753.8	768.4	775.7
70°	264.6	323.0	408.8	485.5	549.4	602.3	647.9	680.8	704.5	717.3	720.9
72.5°	228.1	288.4	374.1	449.0	509.2	560.3	602.3	633.3	655.2	664.3	666.2
75°	195.3	251.9	335.8	407.0	465.4	512.9	554.8	584.0	600.5	609.6	611.4
77.5°	162.4	217.2	297.5	365.0	416.1	461.7	501.9	529.3	545.7	553.0	553.0
80°	131.4	182.5	255.5	315.7	365.0	407.0	443.5	470.9	485.5	483.7	476.4
82.5°	102.2	149.7	211.7	264.6	308.4	346.8	383.3	399.7	405.2	399.7	394.2
85°	73.0	111.3	160.6	204.4	242.7	271.9	295.7	308.4	310.3	304.8	299.3
87.5°	42.0	62.1	91.3	124.1	144.2	162.4	182.5	189.8	189.8	193.5	182.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1149.8	1151.6	1151.6	1155.3	1157.1	1157.1	1155.3	1151.6
5°	1226.5	1237.4	1244.7	1255.7	1261.1	1266.6	1268.4	1264.8
7.5°	1315.9	1332.3	1346.9	1363.3	1370.6	1376.1	1383.4	1377.9
10°	1401.7	1423.6	1441.8	1460.1	1471.0	1478.3	1483.8	1482.0
12.5°	1474.7	1500.2	1520.3	1538.6	1553.2	1564.1	1569.6	1569.6
15°	1531.3	1560.5	1586.0	1606.1	1620.7	1631.6	1638.9	1638.9
17.5°	1575.1	1604.3	1631.6	1651.7	1666.3	1680.9	1688.2	1691.9
20°	1600.6	1631.6	1659.0	1680.9	1697.3	1713.8	1721.1	1726.5
22.5°	1613.4	1644.4	1673.6	1697.3	1715.6	1730.2	1739.3	1743.0
25°	1613.4	1646.2	1677.3	1701.0	1719.2	1735.7	1744.8	1748.4
27.5°	1602.4	1637.1	1668.1	1690.0	1710.1	1726.5	1735.7	1739.3
30°	1580.5	1615.2	1646.2	1668.1	1688.2	1702.8	1711.9	1715.6
32.5°	1545.9	1582.4	1611.6	1633.5	1653.5	1668.1	1677.3	1679.1
35°	1505.7	1540.4	1567.8	1589.7	1609.7	1622.5	1629.8	1633.5
37.5°	1456.4	1489.3	1516.7	1536.7	1555.0	1569.6	1576.9	1578.7
40°	1403.5	1434.5	1458.3	1476.5	1494.8	1507.5	1514.8	1516.7
42.5°	1346.9	1376.1	1398.0	1414.5	1430.9	1441.8	1447.3	1449.1
45°	1288.5	1314.1	1334.1	1348.7	1363.3	1372.5	1377.9	1377.9
47.5°	1230.1	1253.8	1270.3	1281.2	1294.0	1303.1	1308.6	1306.8
50°	1171.7	1191.8	1204.6	1215.5	1226.5	1231.9	1237.4	1235.6
52.5°	1113.3	1131.6	1138.9	1148.0	1157.1	1162.6	1168.1	1164.4
55°	1056.7	1069.5	1076.8	1084.1	1091.4	1096.9	1100.5	1098.7
57.5°	1002.0	1011.1	1016.6	1023.9	1029.4	1033.0	1036.7	1034.8
60°	943.6	950.9	954.5	961.8	967.3	971.0	974.6	974.6
62.5°	888.8	894.3	896.1	903.4	907.1	910.7	916.2	914.4
65°	830.4	835.9	839.5	845.0	848.7	852.3	857.8	856.0
67.5°	775.7	781.1	783.0	788.4	793.9	799.4	801.2	801.2
70°	720.9	724.6	726.4	733.7	735.5	741.0	744.6	744.6
72.5°	666.2	668.0	671.6	677.1	680.8	684.4	688.1	686.2
75°	607.8	611.4	613.2	616.9	616.9	620.5	620.5	620.5
77.5°	547.5	542.1	540.2	538.4	536.6	536.6	536.6	534.8
80°	465.4	459.9	458.1	454.4	454.4	454.4	454.4	452.6
82.5°	385.1	377.8	374.1	372.3	370.5	370.5	370.5	368.7
85°	292.0	284.7	282.9	281.1	281.1	279.2	277.4	275.6
87.5°	180.7	175.2	173.4	169.7	171.6	167.9	167.9	167.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)