

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: P188585

Luminaire Tested: **24SR-LD2-53-C-UNV-L850-CD1-PL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188585  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24637)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-53-C-UNV-L850-CD1-PL-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

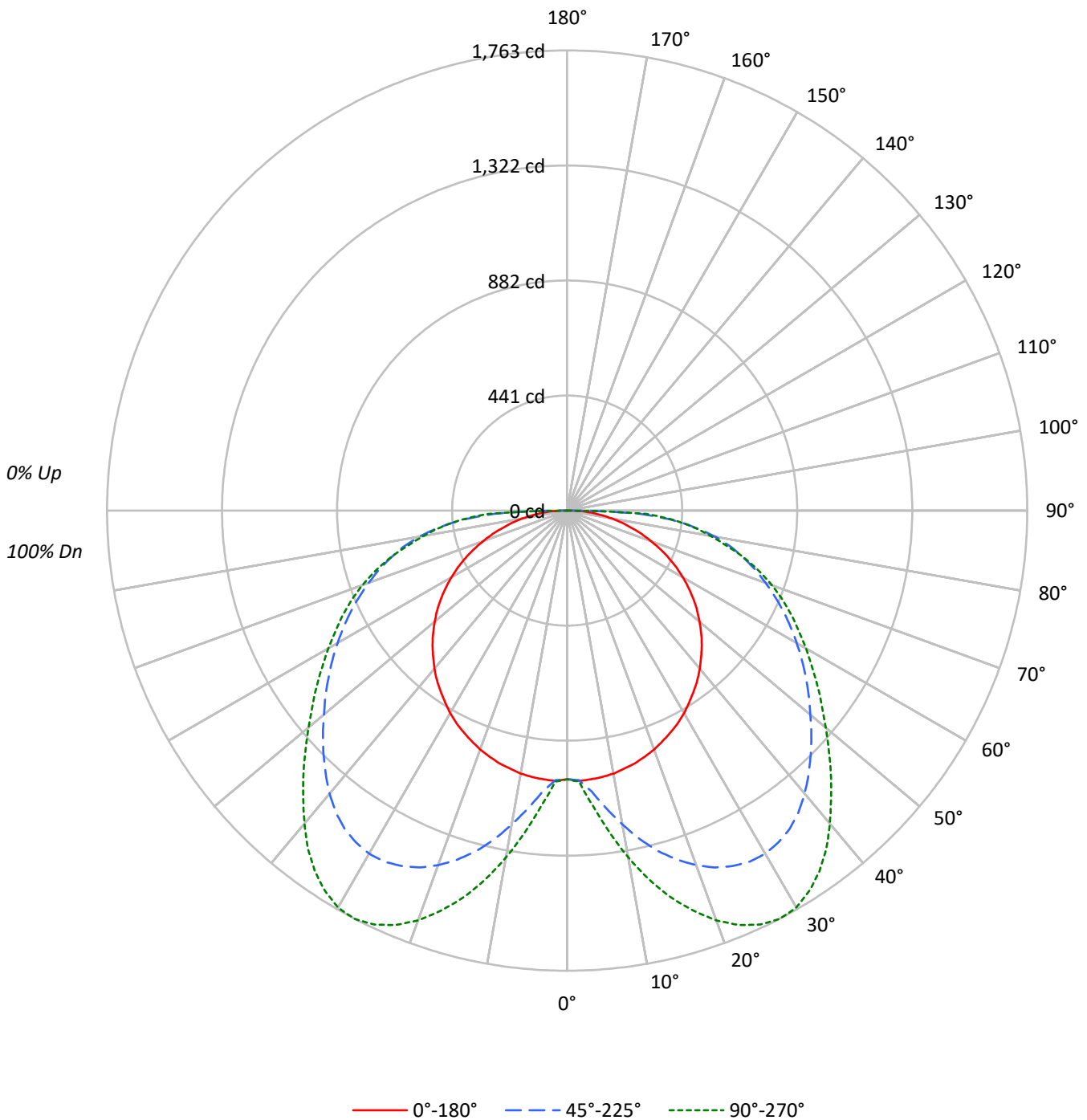
Lumens per Lamp: N/A  
Luminaire Lumens: 5675.0 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.98 / 1.87  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 43.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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
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	106	100	95	90	103	98	93	88	93	89	85	89	86	83	86	83	80
2	95	85	77	70	92	83	76	70	80	73	68	76	71	66	73	69	65
3	86	74	64	57	83	72	63	56	69	61	55	66	60	54	63	58	53
4	78	64	55	47	75	63	54	47	60	52	46	58	51	45	56	50	45
5	71	57	47	40	69	56	47	40	54	45	39	52	44	39	50	43	38
6	65	51	41	34	63	50	41	34	48	40	34	46	39	33	45	38	33
7	60	46	36	30	59	45	36	30	43	35	29	42	35	29	40	34	29
8	56	42	32	26	54	41	32	26	39	32	26	38	31	26	37	30	26
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23
10	49	35	26	21	48	34	26	21	33	26	21	32	25	21	31	25	20

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

	0°	45°	90°
0°	1385	1385	1385
5°	1396	1459	1534
10°	1398	1668	1844
15°	1396	1882	2137
20°	1394	2070	2392
25°	1392	2231	2598
30°	1392	2358	2728
35°	1388	2444	2768
40°	1389	2487	2750
45°	1388	2512	2719
50°	1386	2546	2706
55°	1385	2618	2748
60°	1379	2733	2842
65°	1369	2910	3019
70°	1344	3183	3283
75°	1324	3637	3660
80°	1335	4458	4318
85°	1457	6175	6291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	1.9
10°-20°	371.7	6.5
20°-30°	658.8	11.6
30°-40°	867.0	15.3
40°-50°	940.2	16.6
50°-60°	915.2	16.1
60°-70°	822.3	14.5
70°-80°	651.4	11.5
80°-90°	341.4	6.0
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°	1137.6	20.0
0°-40°	2004.6	35.3
0°-60°	3859.9	68.0
0°-90°	5675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5675.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1034	1034	1080	1121	1136	98
15°	1002	1133	1351	1487	1534	283
25°	938	1194	1503	1685	1750	433
35°	845	1163	1488	1639	1685	529
45°	730	1055	1320	1407	1429	563
55°	590	918	1116	1155	1172	527
65°	430	769	914	931	948	425
75°	255	578	700	700	704	271
85°	94	307	400	401	408	101
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°	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2
2.5°	1036.7	1035.2	1033.7	1032.2	1030.7	1029.2	1029.2	1029.2	1030.7	1033.7	1038.2
5°	1033.7	1032.2	1030.7	1030.7	1032.2	1035.2	1044.2	1054.7	1065.2	1080.2	1096.6
7.5°	1029.2	1027.7	1027.7	1030.7	1042.7	1060.7	1081.7	1104.1	1126.6	1150.6	1173.0
10°	1023.2	1021.7	1023.2	1036.7	1063.7	1093.6	1125.1	1156.6	1186.5	1221.0	1252.4
12.5°	1012.7	1012.7	1020.2	1047.2	1086.2	1126.6	1167.1	1209.0	1248.0	1289.9	1325.9
15°	1002.3	1002.3	1018.7	1059.2	1108.6	1156.6	1207.5	1256.9	1303.4	1351.3	1393.3
17.5°	988.8	988.8	1017.2	1068.2	1125.1	1183.5	1242.0	1297.4	1349.8	1402.3	1447.2
20°	973.8	976.8	1014.2	1075.7	1140.1	1206.0	1268.9	1330.4	1388.8	1445.7	1495.1
22.5°	955.8	961.8	1009.7	1078.7	1152.1	1221.0	1289.9	1355.8	1417.2	1480.2	1529.6
25°	937.8	946.8	1003.8	1078.7	1156.6	1231.5	1303.4	1372.3	1438.2	1502.6	1556.6
27.5°	918.4	930.3	994.8	1074.2	1158.1	1234.5	1309.4	1381.3	1450.2	1516.1	1571.6
30°	895.9	910.9	981.3	1065.2	1152.1	1230.0	1307.9	1382.8	1451.7	1517.6	1571.6
32.5°	870.4	889.9	964.8	1051.7	1140.1	1219.5	1297.4	1372.3	1442.7	1507.1	1558.1
35°	845.0	868.9	946.8	1035.2	1123.6	1203.0	1280.9	1357.3	1426.2	1487.7	1532.6
37.5°	819.5	845.0	924.4	1012.7	1101.1	1180.5	1259.9	1333.3	1399.3	1456.2	1496.6
40°	791.0	819.5	898.9	988.8	1075.7	1155.1	1233.0	1303.4	1363.3	1415.7	1453.2
42.5°	759.6	791.0	871.9	961.8	1047.2	1125.1	1200.0	1265.9	1322.9	1369.3	1400.8
45°	729.6	762.6	843.5	933.3	1017.2	1093.6	1165.6	1227.0	1277.9	1319.9	1346.8
47.5°	696.6	731.1	815.0	901.9	984.3	1059.2	1128.1	1183.5	1233.0	1268.9	1292.9
50°	662.2	699.6	783.5	870.4	951.3	1024.7	1090.6	1141.6	1186.5	1216.5	1239.0
52.5°	627.7	666.7	750.6	837.5	918.4	988.8	1051.7	1101.1	1140.1	1167.1	1186.5
55°	590.3	633.7	717.6	804.5	882.4	952.8	1012.7	1057.7	1093.6	1116.1	1134.1
57.5°	551.3	597.8	684.7	771.5	849.4	916.9	973.8	1015.7	1047.2	1066.7	1080.2
60°	512.4	561.8	648.7	735.6	812.0	879.4	933.3	972.3	1000.8	1015.7	1026.2
62.5°	471.9	524.4	612.7	699.6	777.5	840.5	891.4	927.4	952.8	964.8	975.3
65°	430.0	485.4	575.3	662.2	740.1	798.5	847.9	880.9	903.4	913.9	919.9
67.5°	386.5	444.9	536.3	623.2	698.1	755.1	801.5	834.5	852.4	861.4	865.9
70°	341.6	403.0	494.4	581.3	653.2	707.1	752.1	782.0	800.0	809.0	810.5
72.5°	299.6	359.6	452.4	536.3	605.3	657.7	699.6	731.1	749.1	756.6	756.6
75°	254.7	314.6	406.0	486.9	552.8	603.8	645.7	675.7	692.1	699.6	699.6
77.5°	215.7	271.2	356.6	434.5	495.9	545.3	585.8	617.2	635.2	642.7	642.7
80°	172.3	226.2	305.6	377.5	434.5	479.4	521.4	554.3	572.3	575.3	570.8
82.5°	133.3	182.8	250.2	314.6	367.0	409.0	450.9	477.9	491.4	494.4	492.9
85°	94.4	134.8	191.8	244.2	287.6	326.6	356.6	382.0	395.5	400.0	403.0
87.5°	55.4	77.9	113.9	154.3	187.3	212.7	230.7	253.2	266.7	275.7	284.6
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°	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2
2.5°	1036.7	1038.2	1039.7	1039.7	1039.7	1041.2	1039.7	1039.7
5°	1102.6	1111.6	1119.1	1123.6	1128.1	1135.6	1134.1	1135.6
7.5°	1185.0	1200.0	1216.5	1225.5	1231.5	1240.5	1243.5	1243.5
10°	1270.4	1291.4	1310.9	1324.4	1333.3	1346.8	1348.3	1349.8
12.5°	1351.3	1376.8	1399.3	1414.2	1427.7	1439.7	1445.7	1447.2
15°	1420.2	1451.7	1477.2	1496.6	1510.1	1523.6	1531.1	1534.1
17.5°	1481.7	1514.6	1543.1	1565.6	1582.0	1595.5	1604.5	1607.5
20°	1529.6	1565.6	1597.0	1621.0	1640.5	1655.4	1667.4	1670.4
22.5°	1568.6	1606.0	1639.0	1665.9	1685.4	1703.4	1713.9	1718.4
25°	1597.0	1637.5	1671.9	1697.4	1718.4	1734.9	1745.3	1749.8
27.5°	1613.5	1654.0	1686.9	1712.4	1733.4	1748.3	1758.8	1763.3
30°	1613.5	1652.5	1685.4	1709.4	1728.9	1743.8	1751.3	1755.8
32.5°	1597.0	1634.5	1664.4	1685.4	1703.4	1718.4	1724.4	1727.4
35°	1570.1	1603.0	1630.0	1648.0	1662.9	1676.4	1682.4	1685.4
37.5°	1531.1	1561.1	1582.0	1598.5	1610.5	1624.0	1628.5	1631.5
40°	1481.7	1510.1	1525.1	1540.1	1550.6	1562.6	1565.6	1565.6
42.5°	1427.7	1451.7	1466.7	1477.2	1484.7	1492.2	1496.6	1496.6
45°	1370.8	1391.8	1402.3	1411.3	1418.7	1424.7	1429.2	1429.2
47.5°	1313.9	1330.4	1339.3	1345.3	1351.3	1357.3	1360.3	1360.3
50°	1256.9	1268.9	1276.4	1280.9	1286.9	1291.4	1294.4	1292.9
52.5°	1200.0	1209.0	1215.0	1219.5	1222.5	1227.0	1228.5	1230.0
55°	1143.1	1149.1	1153.6	1156.6	1162.6	1167.1	1168.6	1171.5
57.5°	1087.7	1090.6	1096.6	1098.1	1104.1	1108.6	1110.1	1111.6
60°	1030.7	1033.7	1038.2	1041.2	1048.7	1051.7	1053.2	1056.2
62.5°	975.3	976.8	982.8	988.8	994.8	997.8	999.3	1000.8
65°	919.9	924.4	928.8	933.3	939.3	943.8	945.3	948.3
67.5°	865.9	868.9	874.9	879.4	883.9	888.4	891.4	892.9
70°	810.5	813.5	818.0	821.0	825.5	830.0	834.5	834.5
72.5°	756.6	756.6	759.6	762.6	767.0	770.0	771.5	771.5
75°	698.1	696.6	699.6	701.1	701.1	701.1	702.6	704.1
77.5°	635.2	629.2	626.2	626.2	627.7	624.7	626.2	627.7
80°	563.3	557.3	555.8	555.8	557.3	555.8	557.3	557.3
82.5°	486.9	486.9	482.4	483.9	485.4	482.4	485.4	488.4
85°	398.5	400.0	398.5	403.0	403.0	403.0	404.5	407.5
87.5°	286.1	295.1	292.1	298.1	296.6	298.1	299.6	304.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)