

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: P188593

Luminaire Tested: **24SR-LD2-64-C-UNV-L835-CD1-PL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188593
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-LD2-64-C-UNV-L835-CD1-PL-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6228.0 lumens
Efficiency: N/A
Efficacy: 112.2 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

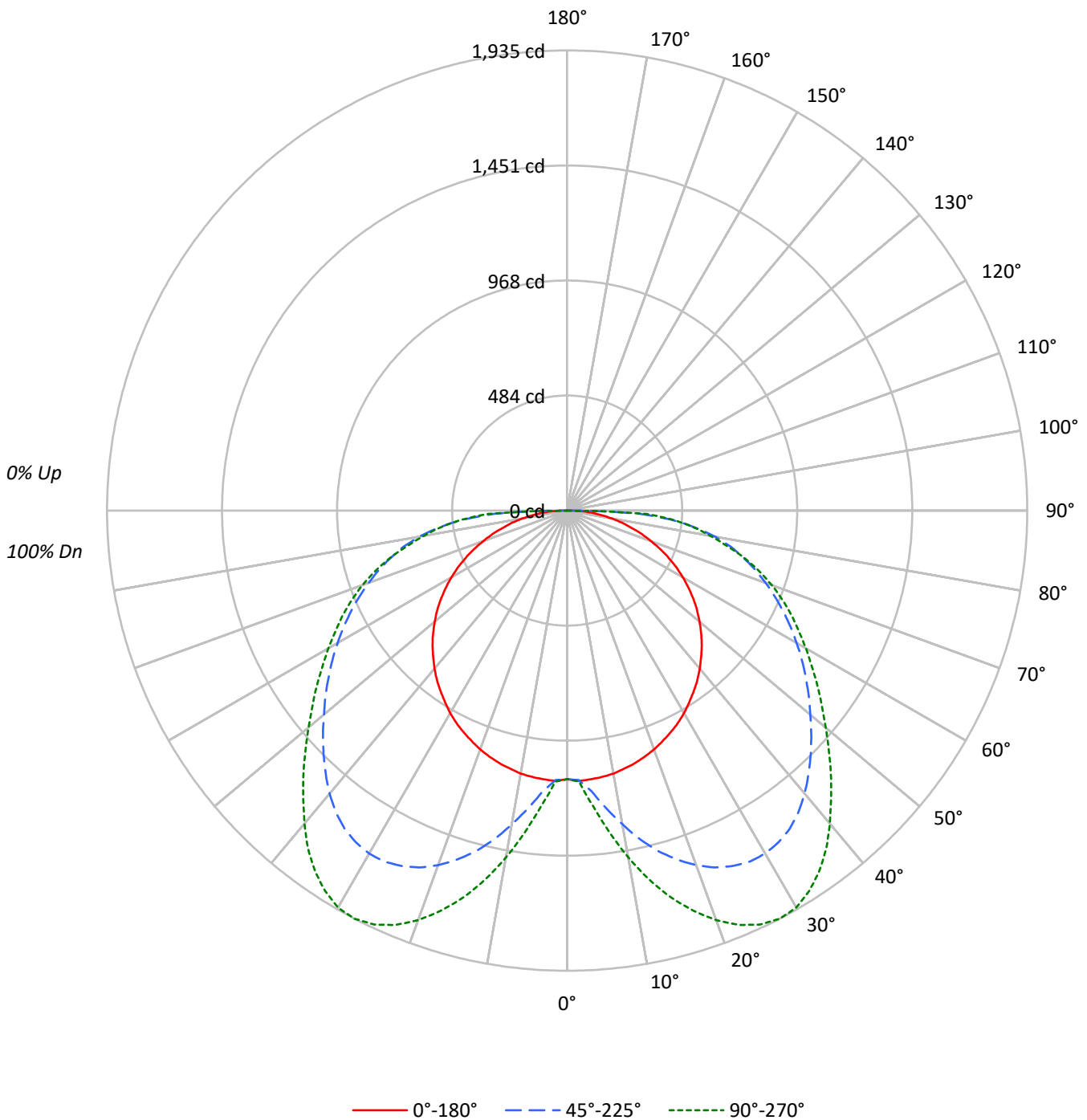
Input Watts (W): 55.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	100	95	90	103	98	93	88	93	89	85	89	86	83	86	83	80	78
2	95	85	77	70	92	83	76	70	80	73	68	76	71	66	73	69	65	62
3	86	74	64	57	83	72	63	56	69	61	55	66	60	54	63	58	53	51
4	78	64	55	47	75	63	54	47	60	52	46	58	51	45	56	50	45	42
5	71	57	47	40	69	56	47	40	54	45	39	52	44	39	50	43	38	36
6	65	51	41	34	63	50	41	34	48	40	34	46	39	33	45	38	33	31
7	60	46	36	30	59	45	36	30	43	35	29	42	35	29	40	34	29	27
8	56	42	32	26	54	41	32	26	39	32	26	38	31	26	37	30	26	23
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21
10	49	35	26	21	48	34	26	21	33	26	21	32	25	21	31	25	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1520	1520	1520
5°	1532	1601	1683
10°	1534	1831	2024
15°	1532	2066	2345
20°	1530	2272	2625
25°	1528	2448	2851
30°	1528	2588	2994
35°	1523	2682	3038
40°	1525	2729	3018
45°	1524	2756	2985
50°	1521	2794	2970
55°	1520	2873	3016
60°	1513	3000	3119
65°	1502	3193	3313
70°	1475	3493	3603
75°	1453	3991	4017
80°	1465	4892	4739
85°	1599	6777	6904



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	1.9
10°-20°	407.9	6.5
20°-30°	723.0	11.6
30°-40°	951.5	15.3
40°-50°	1031.8	16.6
50°-60°	1004.4	16.1
60°-70°	902.4	14.5
70°-80°	714.8	11.5
80°-90°	374.6	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°	1248.4	20.0
0°-40°	2199.9	35.3
0°-60°	4236.1	68.0
0°-90°	6228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1134	1134	1185	1231	1246	108
15°	1100	1243	1483	1632	1684	310
25°	1029	1310	1649	1849	1920	475
35°	927	1277	1633	1799	1850	581
45°	801	1158	1448	1544	1568	617
55°	648	1007	1225	1268	1286	579
65°	472	844	1003	1022	1041	466
75°	280	635	768	769	773	297
85°	104	337	439	440	447	110
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°	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5
2.5°	1137.7	1136.1	1134.4	1132.8	1131.2	1129.5	1129.5	1129.5	1131.2	1134.4	1139.4
5°	1134.4	1132.8	1131.2	1131.2	1132.8	1136.1	1146.0	1157.5	1169.0	1185.4	1203.5
7.5°	1129.5	1127.9	1127.9	1131.2	1144.3	1164.0	1187.1	1211.7	1236.4	1262.7	1287.4
10°	1122.9	1121.3	1122.9	1137.7	1167.3	1200.2	1234.7	1269.3	1302.2	1340.0	1374.5
12.5°	1111.4	1111.4	1119.7	1149.2	1192.0	1236.4	1280.8	1326.8	1369.6	1415.6	1455.1
15°	1099.9	1099.9	1118.0	1162.4	1216.7	1269.3	1325.2	1379.4	1430.4	1483.0	1529.0
17.5°	1085.1	1085.1	1116.4	1172.3	1234.7	1298.9	1363.0	1423.8	1481.4	1538.9	1588.2
20°	1068.7	1072.0	1113.1	1180.5	1251.2	1323.5	1392.6	1460.0	1524.1	1586.6	1640.8
22.5°	1049.0	1055.5	1108.1	1183.8	1264.3	1340.0	1415.6	1487.9	1555.3	1624.4	1678.7
25°	1029.2	1039.1	1101.6	1183.8	1269.3	1351.5	1430.4	1506.0	1578.4	1649.1	1708.3
27.5°	1007.9	1021.0	1091.7	1178.8	1270.9	1354.8	1437.0	1515.9	1591.5	1663.9	1724.7
30°	983.2	999.6	1076.9	1169.0	1264.3	1349.8	1435.3	1517.5	1593.2	1665.5	1724.7
32.5°	955.2	976.6	1058.8	1154.2	1251.2	1338.3	1423.8	1506.0	1583.3	1654.0	1709.9
35°	927.3	953.6	1039.1	1136.1	1233.1	1320.2	1405.7	1489.6	1565.2	1632.6	1681.9
37.5°	899.3	927.3	1014.4	1111.4	1208.4	1295.6	1382.7	1463.3	1535.6	1598.1	1642.5
40°	868.1	899.3	986.5	1085.1	1180.5	1267.6	1353.1	1430.4	1496.2	1553.7	1594.8
42.5°	833.6	868.1	956.9	1055.5	1149.2	1234.7	1316.9	1389.3	1451.8	1502.7	1537.3
45°	800.7	836.9	925.6	1024.3	1116.4	1200.2	1279.1	1346.5	1402.4	1448.5	1478.1
47.5°	764.5	802.3	894.4	989.8	1080.2	1162.4	1238.0	1298.9	1353.1	1392.6	1418.9
50°	726.7	767.8	859.9	955.2	1044.0	1124.6	1196.9	1252.8	1302.2	1335.0	1359.7
52.5°	688.9	731.6	823.7	919.1	1007.9	1085.1	1154.2	1208.4	1251.2	1280.8	1302.2
55°	647.8	695.5	787.5	882.9	968.4	1045.7	1111.4	1160.8	1200.2	1224.9	1244.6
57.5°	605.0	656.0	751.4	846.7	932.2	1006.2	1068.7	1114.7	1149.2	1170.6	1185.4
60°	562.3	616.5	711.9	807.3	891.1	965.1	1024.3	1067.0	1098.3	1114.7	1126.2
62.5°	517.9	575.4	672.4	767.8	853.3	922.4	978.3	1017.7	1045.7	1058.8	1070.3
65°	471.9	532.7	631.3	726.7	812.2	876.3	930.6	966.7	991.4	1002.9	1009.5
67.5°	424.2	488.3	588.6	684.0	766.2	828.6	879.6	915.8	935.5	945.4	950.3
70°	374.9	442.3	542.6	637.9	716.8	776.0	825.4	858.2	878.0	887.8	889.5
72.5°	328.8	394.6	496.5	588.6	664.2	721.8	767.8	802.3	822.1	830.3	830.3
75°	279.5	345.3	445.6	534.3	606.7	662.6	708.6	741.5	759.6	767.8	767.8
77.5°	236.8	297.6	391.3	476.8	544.2	598.5	642.9	677.4	697.1	705.3	705.3
80°	189.1	248.3	335.4	414.3	476.8	526.1	572.2	608.3	628.1	631.3	626.4
82.5°	146.3	200.6	274.6	345.3	402.8	448.8	494.9	524.5	539.3	542.6	540.9
85°	103.6	148.0	210.4	268.0	315.7	358.4	391.3	419.3	434.1	439.0	442.3
87.5°	60.8	85.5	125.0	169.3	205.5	233.5	253.2	277.9	292.7	302.5	312.4
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°	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5
2.5°	1137.7	1139.4	1141.0	1141.0	1141.0	1142.7	1141.0	1141.0
5°	1210.1	1219.9	1228.2	1233.1	1238.0	1246.3	1244.6	1246.3
7.5°	1300.5	1316.9	1335.0	1344.9	1351.5	1361.3	1364.6	1364.6
10°	1394.2	1417.2	1438.6	1453.4	1463.3	1478.1	1479.7	1481.4
12.5°	1483.0	1511.0	1535.6	1552.1	1566.9	1580.0	1586.6	1588.2
15°	1558.6	1593.2	1621.1	1642.5	1657.3	1672.1	1680.3	1683.6
17.5°	1626.0	1662.2	1693.5	1718.1	1736.2	1751.0	1760.9	1764.2
20°	1678.7	1718.1	1752.6	1778.9	1800.3	1816.8	1829.9	1833.2
22.5°	1721.4	1762.5	1798.7	1828.3	1849.6	1869.4	1880.9	1885.8
25°	1752.6	1797.0	1834.8	1862.8	1885.8	1903.9	1915.4	1920.3
27.5°	1770.7	1815.1	1851.3	1879.2	1902.3	1918.7	1930.2	1935.1
30°	1770.7	1813.5	1849.6	1876.0	1897.3	1913.8	1922.0	1926.9
32.5°	1752.6	1793.7	1826.6	1849.6	1869.4	1885.8	1892.4	1895.7
35°	1723.0	1759.2	1788.8	1808.5	1825.0	1839.8	1846.4	1849.6
37.5°	1680.3	1713.2	1736.2	1754.3	1767.4	1782.2	1787.2	1790.5
40°	1626.0	1657.3	1673.7	1690.2	1701.7	1714.8	1718.1	1718.1
42.5°	1566.9	1593.2	1609.6	1621.1	1629.3	1637.6	1642.5	1642.5
45°	1504.4	1527.4	1538.9	1548.8	1557.0	1563.6	1568.5	1568.5
47.5°	1441.9	1460.0	1469.9	1476.4	1483.0	1489.6	1492.9	1492.9
50°	1379.4	1392.6	1400.8	1405.7	1412.3	1417.2	1420.5	1418.9
52.5°	1316.9	1326.8	1333.4	1338.3	1341.6	1346.5	1348.2	1349.8
55°	1254.5	1261.0	1266.0	1269.3	1275.8	1280.8	1282.4	1285.7
57.5°	1193.6	1196.9	1203.5	1205.1	1211.7	1216.7	1218.3	1219.9
60°	1131.2	1134.4	1139.4	1142.7	1150.9	1154.2	1155.8	1159.1
62.5°	1070.3	1072.0	1078.5	1085.1	1091.7	1095.0	1096.6	1098.3
65°	1009.5	1014.4	1019.4	1024.3	1030.9	1035.8	1037.4	1040.7
67.5°	950.3	953.6	960.2	965.1	970.0	975.0	978.3	979.9
70°	889.5	892.8	897.7	901.0	905.9	910.8	915.8	915.8
72.5°	830.3	830.3	833.6	836.9	841.8	845.1	846.7	846.7
75°	766.2	764.5	767.8	769.5	769.5	769.5	771.1	772.7
77.5°	697.1	690.5	687.2	687.2	688.9	685.6	687.2	688.9
80°	618.2	611.6	610.0	610.0	611.6	610.0	611.6	611.6
82.5°	534.3	534.3	529.4	531.1	532.7	529.4	532.7	536.0
85°	437.3	439.0	437.3	442.3	442.3	442.3	443.9	447.2
87.5°	314.0	323.9	320.6	327.2	325.5	327.2	328.8	333.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)