

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: P188633

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188633
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-L835-CD1-SO-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH STORARO ORANGE SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4757.0 lumens
Efficiency: N/A
Efficacy: 85.7 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

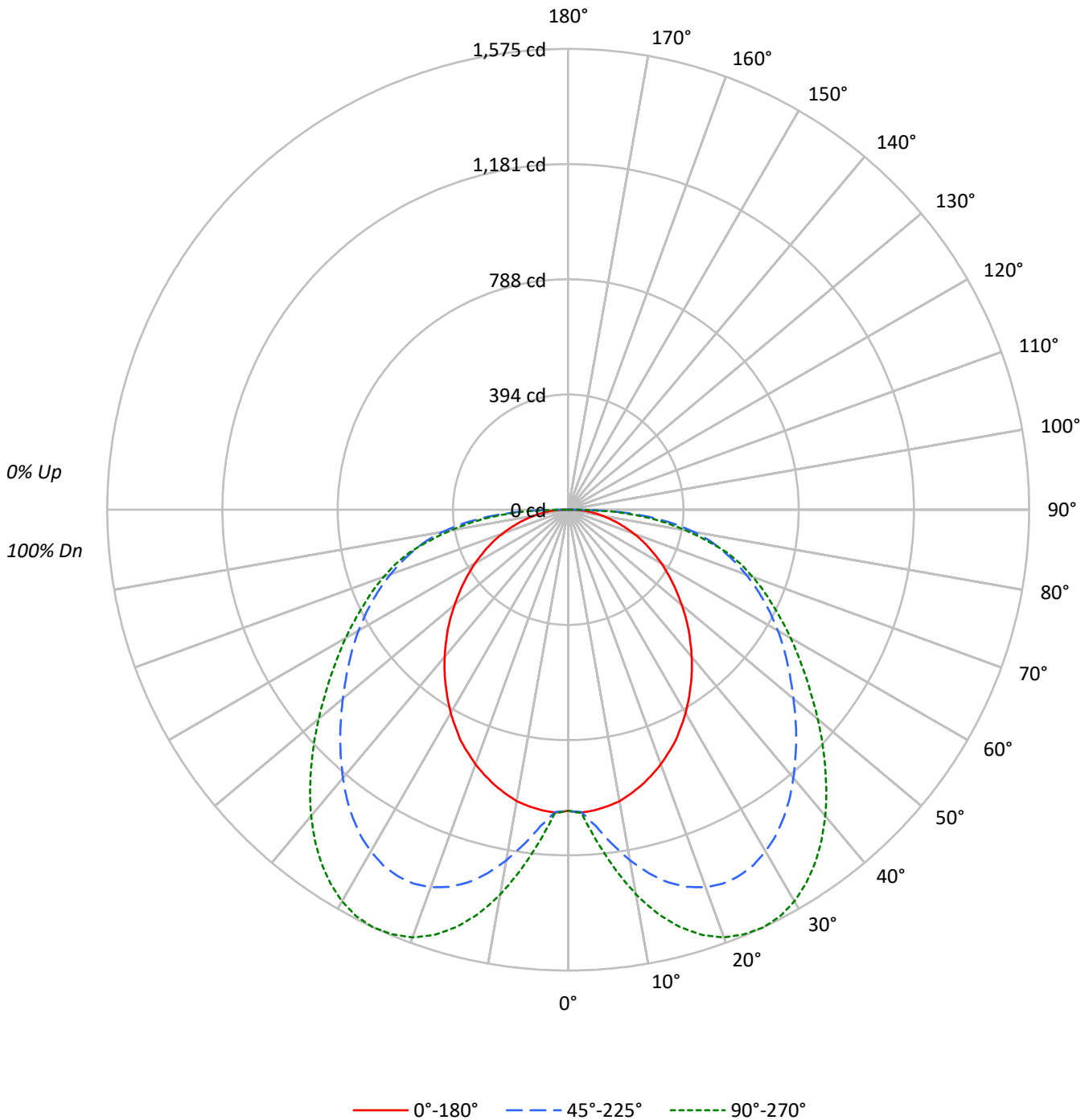
Input Watts (W): 55.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	107	101	96	91	104	99	94	90	94	90	87	90	87	84	87	84	82	79
2	96	87	79	72	93	85	77	71	81	75	70	78	73	68	74	70	66	64
3	87	75	66	59	84	74	65	58	70	63	57	68	61	56	65	60	55	53
4	79	66	56	49	77	65	56	49	62	54	48	60	53	47	57	52	47	44
5	72	59	49	42	70	57	48	42	55	47	41	53	46	41	51	45	40	38
6	67	53	43	36	65	52	43	36	50	42	36	48	41	35	46	40	35	33
7	62	47	38	32	60	47	38	32	45	37	31	43	36	31	42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25	37	30	25	35	29	24	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1385	1385	1385
5°	1392	1466	1539
10°	1382	1662	1824
15°	1356	1837	2057
20°	1325	1966	2227
25°	1291	2051	2339
30°	1247	2095	2401
35°	1199	2109	2417
40°	1152	2103	2400
45°	1108	2096	2362
50°	1060	2103	2330
55°	1022	2145	2322
60°	991	2226	2363
65°	963	2351	2455
70°	938	2542	2639
75°	914	2855	2907
80°	917	3376	3160
85°	1016	4239	3833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	2.2
10°-20°	359.7	7.6
20°-30°	602.2	12.7
30°-40°	754.1	15.9
40°-50°	791.1	16.6
50°-60°	747.5	15.7
60°-70°	654.4	13.8
70°-80°	505.4	10.6
80°-90°	235.8	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°	1068.7	22.5
0°-40°	1822.8	38.3
0°-60°	3361.5	70.7
0°-90°	4757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1031	1030	1085	1126	1140	98
15°	973	1110	1319	1438	1477	274
25°	870	1116	1381	1522	1575	400
35°	730	1020	1284	1422	1472	457
45°	582	865	1102	1209	1242	449
55°	436	719	914	973	990	390
65°	303	589	738	759	771	300
75°	176	441	549	554	559	186
85°	66	232	275	254	248	69
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°	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3
2.5°	1035.9	1034.3	1032.6	1029.3	1027.7	1027.7	1027.7	1027.7	1029.3	1034.3	1037.6
5°	1031.0	1031.0	1027.7	1026.1	1027.7	1032.6	1040.9	1054.0	1067.2	1085.2	1100.0
7.5°	1022.8	1021.1	1019.5	1021.1	1035.9	1057.3	1078.7	1103.3	1126.4	1152.7	1174.0
10°	1011.3	1009.6	1011.3	1024.4	1054.0	1088.5	1119.8	1151.0	1182.3	1216.8	1246.4
12.5°	993.2	993.2	999.7	1029.3	1070.4	1113.2	1154.3	1193.8	1233.2	1272.7	1307.2
15°	973.4	975.1	991.5	1034.3	1085.2	1134.6	1182.3	1228.3	1274.3	1318.7	1356.6
17.5°	950.4	953.7	981.7	1034.3	1091.8	1149.4	1203.6	1254.6	1303.9	1351.6	1391.1
20°	925.7	929.0	970.1	1031.0	1095.1	1157.6	1215.1	1271.1	1323.7	1373.0	1414.1
22.5°	897.8	902.7	955.3	1021.1	1091.8	1159.2	1218.4	1276.0	1330.3	1382.9	1424.0
25°	869.8	876.4	937.3	1008.0	1082.0	1151.0	1213.5	1271.1	1328.6	1381.2	1422.3
27.5°	835.3	846.8	915.9	988.2	1067.2	1136.2	1198.7	1259.5	1317.1	1369.7	1410.8
30°	802.4	817.2	889.6	965.2	1045.8	1114.8	1177.3	1238.2	1295.7	1348.3	1389.4
32.5°	766.3	784.3	860.0	938.9	1017.8	1085.2	1149.4	1210.2	1267.8	1320.4	1359.8
35°	730.1	751.5	828.7	909.3	986.6	1054.0	1116.5	1177.3	1233.2	1284.2	1322.0
37.5°	693.9	716.9	794.2	876.4	950.4	1016.2	1078.7	1137.9	1195.4	1243.1	1280.9
40°	656.1	682.4	759.7	838.6	912.6	976.7	1039.2	1096.8	1151.0	1197.1	1233.2
42.5°	618.3	647.9	725.1	802.4	873.1	935.6	998.1	1054.0	1105.0	1149.4	1183.9
45°	582.1	611.7	687.3	764.6	833.7	896.2	957.0	1011.3	1060.6	1101.7	1134.6
47.5°	544.3	577.2	652.8	728.4	794.2	856.7	915.9	966.9	1014.5	1052.4	1083.6
50°	506.4	542.6	616.6	690.6	758.0	818.9	876.4	925.7	970.1	1004.7	1034.3
52.5°	470.3	508.1	583.7	656.1	721.9	782.7	838.6	886.3	927.4	958.6	984.9
55°	435.7	475.2	550.8	621.6	689.0	748.2	800.8	846.8	884.6	914.2	937.3
57.5°	401.2	444.0	519.6	592.0	656.1	715.3	766.3	809.0	843.5	871.5	891.2
60°	368.3	412.7	490.0	560.7	624.8	682.4	731.7	771.2	804.1	827.1	841.9
62.5°	333.8	381.5	458.8	531.1	595.2	649.5	697.2	735.0	763.0	782.7	795.8
65°	302.6	350.2	429.2	501.5	562.4	615.0	659.4	695.5	721.9	738.3	746.5
67.5°	271.3	320.6	399.6	470.3	529.5	580.4	621.6	656.1	679.1	692.3	698.8
70°	238.4	291.0	368.3	437.4	494.9	542.6	583.7	613.3	634.7	646.2	649.5
72.5°	205.5	259.8	337.1	404.5	458.8	504.8	542.6	570.6	590.3	598.5	600.2
75°	175.9	226.9	302.6	366.7	419.3	462.1	499.9	526.2	541.0	549.2	550.8
77.5°	146.3	195.7	268.0	328.9	374.9	416.0	452.2	476.9	491.7	498.2	498.2
80°	118.4	164.4	230.2	284.5	328.9	366.7	399.6	424.2	437.4	435.7	429.2
82.5°	92.1	134.8	190.7	238.4	277.9	312.4	345.3	360.1	365.0	360.1	355.2
85°	65.8	100.3	144.7	184.2	218.7	245.0	266.4	277.9	279.5	274.6	269.7
87.5°	37.8	55.9	82.2	111.8	129.9	146.3	164.4	171.0	171.0	174.3	164.4
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°	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3
2.5°	1035.9	1037.6	1037.6	1040.9	1042.5	1042.5	1040.9	1037.6
5°	1105.0	1114.8	1121.4	1131.3	1136.2	1141.2	1142.8	1139.5
7.5°	1185.6	1200.4	1213.5	1228.3	1234.9	1239.8	1246.4	1241.5
10°	1262.8	1282.6	1299.0	1315.5	1325.3	1331.9	1336.8	1335.2
12.5°	1328.6	1351.6	1369.7	1386.2	1399.3	1409.2	1414.1	1414.1
15°	1379.6	1405.9	1428.9	1447.0	1460.2	1470.0	1476.6	1476.6
17.5°	1419.0	1445.4	1470.0	1488.1	1501.3	1514.4	1521.0	1524.3
20°	1442.1	1470.0	1494.7	1514.4	1529.2	1544.0	1550.6	1555.5
22.5°	1453.6	1481.5	1507.8	1529.2	1545.7	1558.8	1567.0	1570.3
25°	1453.6	1483.2	1511.1	1532.5	1548.9	1563.7	1572.0	1575.3
27.5°	1443.7	1475.0	1502.9	1522.6	1540.7	1555.5	1563.7	1567.0
30°	1424.0	1455.2	1483.2	1502.9	1521.0	1534.1	1542.4	1545.7
32.5°	1392.7	1425.6	1451.9	1471.7	1489.7	1502.9	1511.1	1512.8
35°	1356.6	1387.8	1412.5	1432.2	1450.3	1461.8	1468.4	1471.7
37.5°	1312.2	1341.8	1366.4	1384.5	1401.0	1414.1	1420.7	1422.3
40°	1264.5	1292.4	1313.8	1330.3	1346.7	1358.2	1364.8	1366.4
42.5°	1213.5	1239.8	1259.5	1274.3	1289.1	1299.0	1303.9	1305.6
45°	1160.9	1183.9	1202.0	1215.1	1228.3	1236.5	1241.5	1241.5
47.5°	1108.3	1129.6	1144.4	1154.3	1165.8	1174.0	1179.0	1177.3
50°	1055.7	1073.7	1085.2	1095.1	1105.0	1109.9	1114.8	1113.2
52.5°	1003.0	1019.5	1026.1	1034.3	1042.5	1047.4	1052.4	1049.1
55°	952.1	963.6	970.1	976.7	983.3	988.2	991.5	989.9
57.5°	902.7	911.0	915.9	922.5	927.4	930.7	934.0	932.3
60°	850.1	856.7	860.0	866.6	871.5	874.8	878.1	878.1
62.5°	800.8	805.7	807.4	813.9	817.2	820.5	825.4	823.8
65°	748.2	753.1	756.4	761.3	764.6	767.9	772.8	771.2
67.5°	698.8	703.8	705.4	710.3	715.3	720.2	721.9	721.9
70°	649.5	652.8	654.4	661.0	662.7	667.6	670.9	670.9
72.5°	600.2	601.8	605.1	610.0	613.3	616.6	619.9	618.3
75°	547.6	550.8	552.5	555.8	555.8	559.1	559.1	559.1
77.5°	493.3	488.4	486.7	485.1	483.4	483.4	483.4	481.8
80°	419.3	414.4	412.7	409.4	409.4	409.4	409.4	407.8
82.5°	347.0	340.4	337.1	335.4	333.8	333.8	333.8	332.2
85°	263.1	256.5	254.9	253.2	253.2	251.6	249.9	248.3
87.5°	162.8	157.9	156.2	152.9	154.6	151.3	151.3	151.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)