

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: P188673

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24808)
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-ST-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH STRAW SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6129.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.62 / 1.56
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

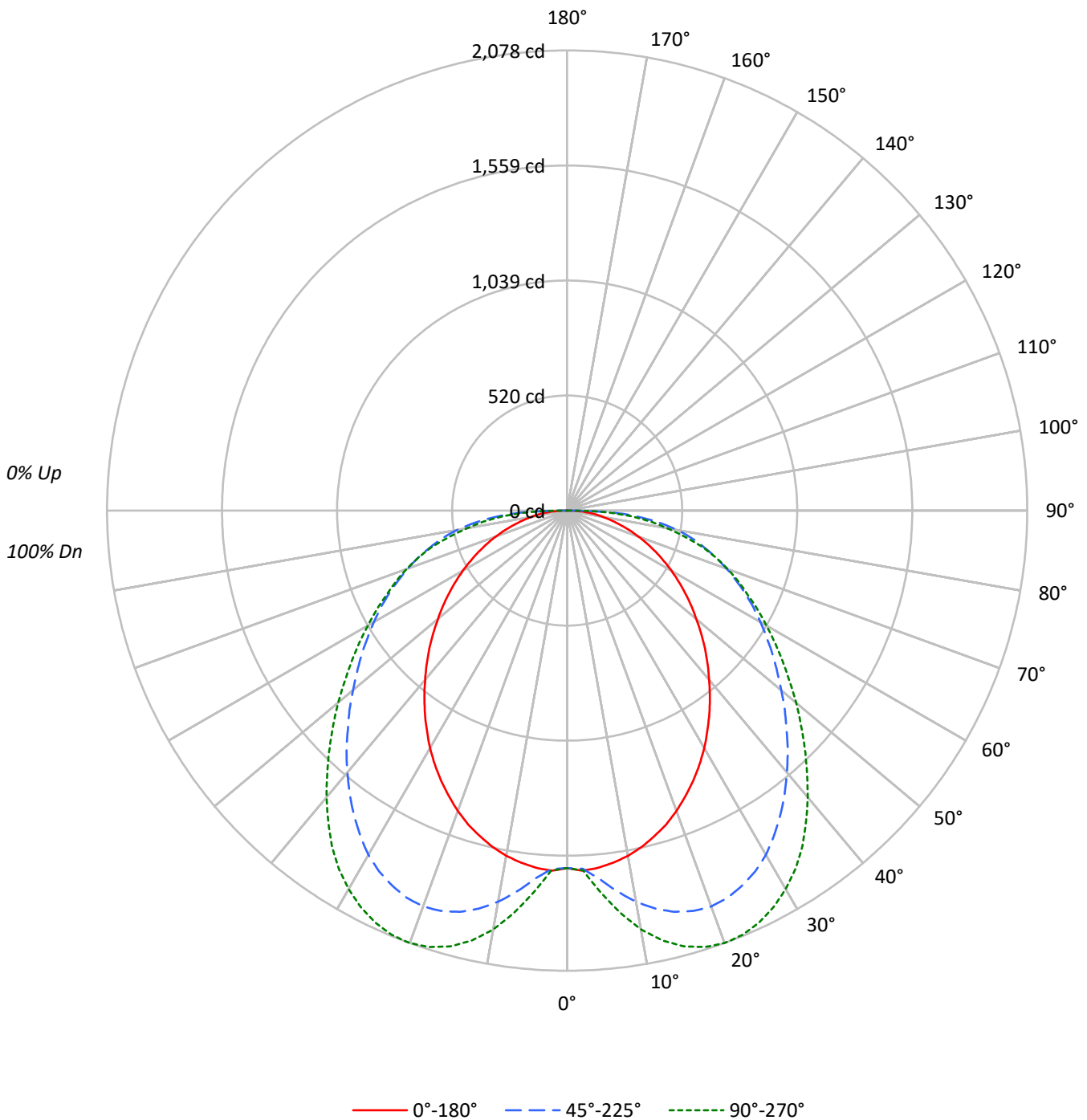
Input Watts (W): 55.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	83	80
2	97	88	80	74	94	86	79	73	82	76	71	79	74	69	76	71	68	66
3	88	76	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	54
4	80	67	58	51	78	66	57	50	63	56	50	61	54	49	59	53	48	46
5	74	60	50	43	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	43	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2172	2172	2172
5°	2187	2254	2336
10°	2163	2451	2623
15°	2121	2613	2837
20°	2067	2724	2976
25°	1999	2775	3046
30°	1923	2789	3065
35°	1839	2757	3041
40°	1753	2712	2969
45°	1674	2665	2888
50°	1593	2643	2825
55°	1527	2657	2788
60°	1464	2712	2796
65°	1403	2826	2863
70°	1345	3014	3033
75°	1282	3324	3274
80°	1274	3924	3541
85°	1396	5051	4417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	2.6
10°-20°	515.1	8.4
20°-30°	823.7	13.4
30°-40°	997.2	16.3
40°-50°	1018.4	16.6
50°-60°	938.4	15.3
60°-70°	798.2	13.0
70°-80°	596.8	9.7
80°-90°	278.8	4.5
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°	1501.1	24.5
0°-40°	2498.3	40.8
0°-60°	4455.1	72.7
0°-90°	6129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1619	1610	1669	1711	1730	153
15°	1522	1659	1876	1993	2037	429
25°	1346	1600	1869	2002	2052	619
35°	1120	1415	1679	1806	1851	700
45°	880	1171	1401	1491	1518	679
55°	651	946	1133	1176	1189	583
65°	441	749	888	894	899	437
75°	247	541	640	630	630	264
85°	90	285	327	290	286	95
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°	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5
2.5°	1627.6	1624.3	1619.4	1612.8	1611.2	1611.2	1609.5	1609.5	1612.8	1619.4	1629.3
5°	1619.4	1616.1	1611.2	1606.2	1607.9	1612.8	1622.7	1634.2	1650.6	1668.7	1688.4
7.5°	1602.9	1601.3	1598.0	1598.0	1611.2	1634.2	1657.2	1680.2	1706.5	1734.5	1764.1
10°	1583.2	1581.6	1579.9	1593.1	1622.7	1657.2	1690.1	1721.3	1757.5	1793.7	1828.2
12.5°	1555.3	1555.3	1560.2	1589.8	1630.9	1673.6	1714.7	1755.8	1798.6	1841.3	1879.1
15°	1522.4	1522.4	1538.8	1581.6	1634.2	1683.5	1732.8	1778.9	1828.2	1875.9	1915.3
17.5°	1486.2	1484.6	1515.8	1568.4	1627.6	1685.2	1741.0	1792.0	1843.0	1895.6	1936.7
20°	1443.5	1446.8	1487.9	1548.7	1614.5	1678.6	1737.8	1792.0	1846.3	1902.2	1941.6
22.5°	1395.8	1402.4	1453.3	1520.7	1594.7	1660.5	1723.0	1780.5	1836.4	1892.3	1931.8
25°	1346.5	1354.7	1417.2	1487.9	1566.8	1634.2	1696.7	1757.5	1813.4	1869.3	1908.7
27.5°	1293.9	1305.4	1376.1	1450.1	1529.0	1599.7	1662.1	1724.6	1780.5	1838.0	1874.2
30°	1238.0	1252.8	1328.4	1404.0	1486.2	1555.3	1617.7	1681.9	1739.4	1795.3	1829.8
32.5°	1178.8	1196.9	1274.1	1356.3	1436.9	1504.3	1566.8	1632.5	1686.8	1739.4	1773.9
35°	1119.6	1141.0	1219.9	1302.1	1381.0	1448.4	1509.2	1575.0	1629.3	1678.6	1711.5
37.5°	1058.8	1085.1	1164.0	1244.5	1321.8	1389.2	1451.7	1512.5	1566.8	1612.8	1645.7
40°	997.9	1027.5	1106.4	1185.4	1262.6	1326.7	1387.6	1448.4	1502.7	1543.8	1575.0
42.5°	938.8	968.3	1048.9	1127.8	1198.5	1264.3	1325.1	1384.3	1433.6	1474.7	1502.7
45°	879.6	910.8	989.7	1067.0	1137.7	1203.4	1264.3	1318.5	1366.2	1400.7	1428.7
47.5°	820.4	853.3	932.2	1009.4	1076.9	1141.0	1203.4	1252.8	1298.8	1333.3	1356.3
50°	761.2	797.4	874.6	953.5	1019.3	1083.4	1142.6	1188.6	1231.4	1262.6	1284.0
52.5°	706.9	741.5	820.4	899.3	965.1	1029.2	1085.1	1129.5	1167.3	1195.2	1216.6
55°	651.0	688.9	771.1	846.7	914.1	978.2	1029.2	1070.3	1104.8	1132.7	1149.2
57.5°	596.8	639.5	720.1	795.7	864.8	925.6	974.9	1014.4	1045.6	1068.6	1083.4
60°	544.2	588.6	672.4	748.0	817.1	876.3	924.0	960.1	988.1	1007.8	1021.0
62.5°	491.6	542.5	624.7	703.7	769.4	827.0	871.3	904.2	930.5	948.6	956.8
65°	440.6	493.2	578.7	656.0	721.7	776.0	818.7	848.3	873.0	887.8	891.1
67.5°	391.3	447.2	532.7	609.9	674.1	725.0	766.1	794.1	815.4	825.3	828.6
70°	342.0	399.5	486.6	563.9	624.7	674.1	711.9	738.2	756.3	766.1	766.1
72.5°	295.9	353.5	440.6	516.2	572.1	621.5	656.0	680.6	697.1	703.7	702.0
75°	246.6	305.8	391.3	463.6	517.9	563.9	598.4	623.1	634.6	639.5	637.9
77.5°	203.9	259.8	342.0	409.4	466.9	504.7	539.2	562.3	573.8	577.1	575.4
80°	164.4	217.0	289.4	353.5	402.8	443.9	475.1	499.8	509.7	506.4	491.6
82.5°	126.6	174.3	238.4	294.3	340.3	378.1	411.0	425.8	427.5	419.2	406.1
85°	90.4	126.6	180.8	228.5	271.3	299.2	318.9	330.5	333.7	327.2	312.4
87.5°	51.0	74.0	106.9	141.4	174.3	194.0	205.5	212.1	217.0	210.4	200.6
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°	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5
2.5°	1619.4	1624.3	1622.7	1626.0	1627.6	1627.6	1622.7	1626.0
5°	1690.1	1699.9	1706.5	1716.4	1723.0	1723.0	1724.6	1729.5
7.5°	1767.4	1783.8	1798.6	1810.1	1818.3	1821.6	1826.5	1831.5
10°	1839.7	1859.4	1875.9	1890.7	1900.5	1907.1	1912.0	1920.2
12.5°	1895.6	1918.6	1936.7	1953.1	1966.3	1976.1	1981.1	1987.7
15°	1936.7	1963.0	1984.4	2002.5	2014.0	2025.5	2030.4	2037.0
17.5°	1961.4	1987.7	2010.7	2028.8	2041.9	2053.4	2060.0	2066.6
20°	1967.9	1994.2	2018.9	2037.0	2050.1	2064.9	2071.5	2078.1
22.5°	1958.1	1984.4	2010.7	2030.4	2045.2	2060.0	2066.6	2073.1
25°	1938.3	1966.3	1992.6	2012.3	2025.5	2040.3	2048.5	2051.8
27.5°	1907.1	1935.0	1961.4	1979.4	1994.2	2009.0	2017.2	2018.9
30°	1862.7	1890.7	1917.0	1935.0	1951.5	1964.6	1972.9	1972.9
32.5°	1808.5	1834.8	1862.7	1879.1	1893.9	1907.1	1915.3	1918.6
35°	1746.0	1772.3	1798.6	1813.4	1829.8	1839.7	1846.3	1851.2
37.5°	1678.6	1704.9	1726.3	1739.4	1757.5	1764.1	1773.9	1772.3
40°	1606.2	1627.6	1647.3	1658.8	1673.6	1681.9	1691.7	1690.1
42.5°	1530.6	1552.0	1568.4	1581.6	1589.8	1598.0	1604.6	1602.9
45°	1453.3	1473.1	1487.9	1494.4	1507.6	1510.9	1517.5	1517.5
47.5°	1376.1	1392.5	1405.7	1415.5	1422.1	1425.4	1432.0	1432.0
50°	1302.1	1316.9	1325.1	1333.3	1339.9	1344.8	1348.1	1349.8
52.5°	1229.7	1241.3	1247.8	1254.4	1261.0	1264.3	1267.6	1265.9
55°	1160.7	1168.9	1173.9	1178.8	1183.7	1188.6	1188.6	1188.6
57.5°	1091.6	1096.6	1101.5	1104.8	1109.7	1113.0	1113.0	1113.0
60°	1024.2	1029.2	1030.8	1034.1	1039.0	1040.7	1042.3	1039.0
62.5°	958.5	960.1	961.8	963.4	968.3	971.6	971.6	970.0
65°	891.1	891.1	892.7	894.4	897.7	900.9	902.6	899.3
67.5°	825.3	825.3	827.0	827.0	831.9	835.2	836.8	836.8
70°	761.2	759.6	762.8	764.5	767.8	767.8	771.1	771.1
72.5°	697.1	695.4	698.7	698.7	702.0	703.7	703.7	703.7
75°	634.6	629.7	631.3	628.0	631.3	631.3	629.7	629.7
77.5°	567.2	555.7	552.4	545.8	545.8	545.8	542.5	542.5
80°	481.7	470.2	465.3	460.3	460.3	458.7	457.0	457.0
82.5°	396.2	386.4	381.4	376.5	379.8	374.8	376.5	378.1
85°	304.1	295.9	292.6	287.7	286.1	286.1	287.7	286.1
87.5°	197.3	189.1	189.1	184.1	187.4	182.5	177.6	180.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)