

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: P188595

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188595
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-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: 6913.0 lumens
Efficiency: N/A
Efficacy: 124.6 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

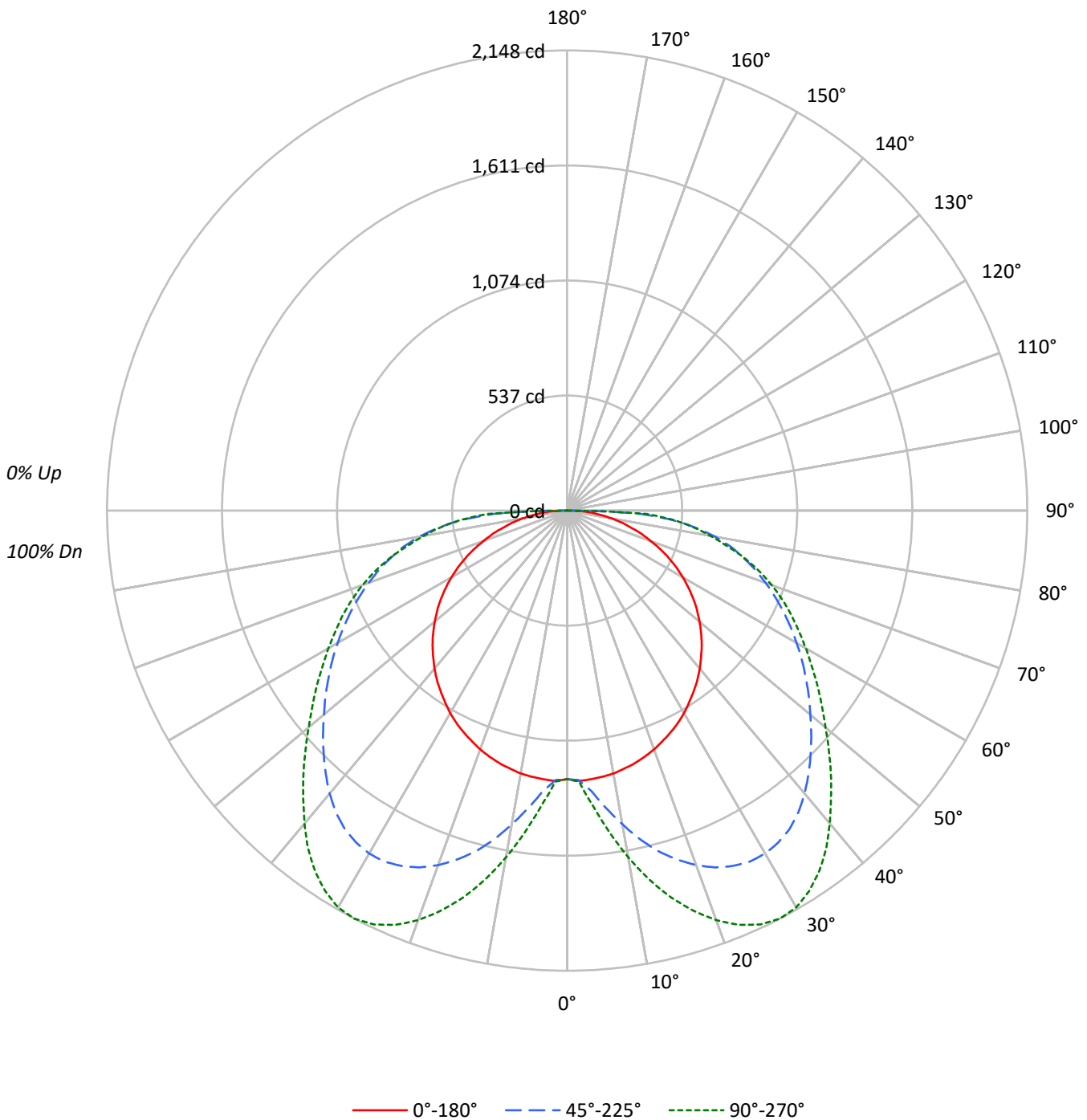
Input Watts (W): 55.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1687	1687	1687
5°	1701	1777	1868
10°	1703	2032	2247
15°	1701	2293	2603
20°	1698	2522	2914
25°	1696	2717	3165
30°	1695	2872	3323
35°	1691	2977	3372
40°	1692	3029	3350
45°	1691	3059	3313
50°	1688	3102	3297
55°	1687	3189	3348
60°	1679	3330	3462
65°	1668	3544	3678
70°	1637	3877	3999
75°	1613	4431	4459
80°	1626	5430	5260
85°	1775	7523	7663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	1.9
10°-20°	452.8	6.5
20°-30°	802.6	11.6
30°-40°	1056.2	15.3
40°-50°	1145.3	16.6
50°-60°	1114.8	16.1
60°-70°	1001.7	14.5
70°-80°	793.5	11.5
80°-90°	415.8	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°	1385.7	20.0
0°-40°	2441.9	35.3
0°-60°	4702.0	68.0
0°-90°	6913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1259	1259	1316	1366	1383	120
15°	1221	1380	1646	1811	1869	345
25°	1142	1454	1830	2052	2132	527
35°	1029	1417	1812	1997	2053	645
45°	889	1286	1608	1714	1741	685
55°	719	1118	1360	1407	1427	642
65°	524	937	1113	1134	1155	517
75°	310	704	852	853	858	330
85°	115	374	487	488	496	122
90°	0	0	0	0	0	



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CATALOG NUMBER: 24SR-LD2-64-C-UNV-L850-CD1-PL-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7
2.5°	1262.9	1261.0	1259.2	1257.4	1255.6	1253.7	1253.7	1253.7	1255.6	1259.2	1264.7
5°	1259.2	1257.4	1255.6	1255.6	1257.4	1261.0	1272.0	1284.8	1297.5	1315.8	1335.9
7.5°	1253.7	1251.9	1251.9	1255.6	1270.2	1292.1	1317.6	1345.0	1372.4	1401.6	1428.9
10°	1246.4	1244.6	1246.4	1262.9	1295.7	1332.2	1370.5	1408.9	1445.4	1487.3	1525.7
12.5°	1233.7	1233.7	1242.8	1275.6	1323.1	1372.4	1421.6	1472.7	1520.2	1571.3	1615.1
15°	1220.9	1220.9	1241.0	1290.2	1350.5	1408.9	1470.9	1531.1	1587.7	1646.1	1697.2
17.5°	1204.5	1204.5	1239.2	1301.2	1370.5	1441.7	1512.9	1580.4	1644.3	1708.2	1762.9
20°	1186.2	1189.9	1235.5	1310.3	1388.8	1469.1	1545.7	1620.6	1691.7	1761.1	1821.3
22.5°	1164.3	1171.6	1230.0	1314.0	1403.4	1487.3	1571.3	1651.6	1726.4	1803.1	1863.3
25°	1142.4	1153.4	1222.7	1314.0	1408.9	1500.1	1587.7	1671.7	1752.0	1830.4	1896.1
27.5°	1118.7	1133.3	1211.8	1308.5	1410.7	1503.8	1595.0	1682.6	1766.6	1846.9	1914.4
30°	1091.3	1109.6	1195.4	1297.5	1403.4	1498.3	1593.2	1684.4	1768.4	1848.7	1914.4
32.5°	1060.3	1084.0	1175.3	1281.1	1388.8	1485.5	1580.4	1671.7	1757.4	1835.9	1898.0
35°	1029.3	1058.5	1153.4	1261.0	1368.7	1465.4	1560.3	1653.4	1737.4	1812.2	1866.9
37.5°	998.3	1029.3	1126.0	1233.7	1341.3	1438.1	1534.8	1624.2	1704.5	1773.9	1823.1
40°	963.6	998.3	1095.0	1204.5	1310.3	1407.0	1501.9	1587.7	1660.7	1724.6	1770.2
42.5°	925.3	963.6	1062.1	1171.6	1275.6	1370.5	1461.8	1542.1	1611.4	1668.0	1706.3
45°	888.8	928.9	1027.5	1137.0	1239.2	1332.2	1419.8	1494.6	1556.7	1607.8	1640.6
47.5°	848.6	890.6	992.8	1098.6	1199.0	1290.2	1374.2	1441.7	1501.9	1545.7	1574.9
50°	806.6	852.3	954.5	1060.3	1158.9	1248.3	1328.6	1390.6	1445.4	1481.9	1509.2
52.5°	764.7	812.1	914.3	1020.2	1118.7	1204.5	1281.1	1341.3	1388.8	1421.6	1445.4
55°	719.0	772.0	874.2	980.0	1074.9	1160.7	1233.7	1288.4	1332.2	1359.6	1381.5
57.5°	671.6	728.2	834.0	939.9	1034.8	1116.9	1186.2	1237.3	1275.6	1299.4	1315.8
60°	624.1	684.4	790.2	896.1	989.1	1071.3	1137.0	1184.4	1219.1	1237.3	1250.1
62.5°	574.9	638.7	746.4	852.3	947.2	1023.8	1085.9	1129.7	1160.7	1175.3	1188.1
65°	523.8	591.3	700.8	806.6	901.5	972.7	1032.9	1073.1	1100.5	1113.2	1120.5
67.5°	470.8	542.0	653.3	759.2	850.4	919.8	976.4	1016.5	1038.4	1049.4	1054.8
70°	416.1	490.9	602.2	708.1	795.7	861.4	916.1	952.6	974.5	985.5	987.3
72.5°	365.0	438.0	551.1	653.3	737.3	801.2	852.3	890.6	912.5	921.6	921.6
75°	310.2	383.2	494.6	593.1	673.4	735.5	786.6	823.1	843.1	852.3	852.3
77.5°	262.8	330.3	434.3	529.2	604.1	664.3	713.6	751.9	773.8	782.9	782.9
80°	209.9	275.6	372.3	459.9	529.2	584.0	635.1	675.2	697.1	700.8	695.3
82.5°	162.4	222.6	304.8	383.2	447.1	498.2	549.3	582.2	598.6	602.2	600.4
85°	115.0	164.2	233.6	297.5	350.4	397.8	434.3	465.4	481.8	487.3	490.9
87.5°	67.5	94.9	138.7	188.0	228.1	259.1	281.0	308.4	324.8	335.8	346.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P188595

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L850-CD1-PL-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7
2.5°	1262.9	1264.7	1266.5	1266.5	1266.5	1268.3	1266.5	1266.5
5°	1343.2	1354.1	1363.2	1368.7	1374.2	1383.3	1381.5	1383.3
7.5°	1443.5	1461.8	1481.9	1492.8	1500.1	1511.1	1514.7	1514.7
10°	1547.6	1573.1	1596.8	1613.3	1624.2	1640.6	1642.5	1644.3
12.5°	1646.1	1677.1	1704.5	1722.8	1739.2	1753.8	1761.1	1762.9
15°	1730.1	1768.4	1799.4	1823.1	1839.6	1856.0	1865.1	1868.8
17.5°	1804.9	1845.0	1879.7	1907.1	1927.2	1943.6	1954.5	1958.2
20°	1863.3	1907.1	1945.4	1974.6	1998.3	2016.6	2031.2	2034.8
22.5°	1910.7	1956.4	1996.5	2029.4	2053.1	2075.0	2087.8	2093.2
25°	1945.4	1994.7	2036.7	2067.7	2093.2	2113.3	2126.1	2131.6
27.5°	1965.5	2014.8	2054.9	2085.9	2111.5	2129.7	2142.5	2148.0
30°	1965.5	2012.9	2053.1	2082.3	2106.0	2124.3	2133.4	2138.9
32.5°	1945.4	1991.0	2027.5	2053.1	2075.0	2093.2	2100.5	2104.2
35°	1912.6	1952.7	1985.6	2007.5	2025.7	2042.1	2049.4	2053.1
37.5°	1865.1	1901.6	1927.2	1947.2	1961.8	1978.3	1983.7	1987.4
40°	1804.9	1839.6	1857.8	1876.1	1888.8	1903.4	1907.1	1907.1
42.5°	1739.2	1768.4	1786.6	1799.4	1808.5	1817.7	1823.1	1823.1
45°	1669.8	1695.4	1708.2	1719.1	1728.2	1735.5	1741.0	1741.0
47.5°	1600.5	1620.6	1631.5	1638.8	1646.1	1653.4	1657.1	1657.1
50°	1531.1	1545.7	1554.9	1560.3	1567.6	1573.1	1576.8	1574.9
52.5°	1461.8	1472.7	1480.0	1485.5	1489.2	1494.6	1496.5	1498.3
55°	1392.4	1399.7	1405.2	1408.9	1416.2	1421.6	1423.5	1427.1
57.5°	1324.9	1328.6	1335.9	1337.7	1345.0	1350.5	1352.3	1354.1
60°	1255.6	1259.2	1264.7	1268.3	1277.5	1281.1	1282.9	1286.6
62.5°	1188.1	1189.9	1197.2	1204.5	1211.8	1215.4	1217.3	1219.1
65°	1120.5	1126.0	1131.5	1137.0	1144.3	1149.7	1151.6	1155.2
67.5°	1054.8	1058.5	1065.8	1071.3	1076.7	1082.2	1085.9	1087.7
70°	987.3	991.0	996.4	1000.1	1005.6	1011.0	1016.5	1016.5
72.5°	921.6	921.6	925.3	928.9	934.4	938.0	939.9	939.9
75°	850.4	848.6	852.3	854.1	854.1	854.1	855.9	857.7
77.5°	773.8	766.5	762.8	762.8	764.7	761.0	762.8	764.7
80°	686.2	678.9	677.1	677.1	678.9	677.1	678.9	678.9
82.5°	593.1	593.1	587.6	589.5	591.3	587.6	591.3	594.9
85°	485.4	487.3	485.4	490.9	490.9	490.9	492.7	496.4
87.5°	348.6	359.5	355.9	363.2	361.3	363.2	365.0	370.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)