

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: P130735

Luminaire Tested: **TBLED-LD1-8-W-UNV-L835-CD1-CMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25252)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: TBLED-LD1-8-W-UNV-L835-CD1-CMS
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
WIDE DISTRIBUTION WITH MINI SENSOR.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7211.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.42 / 1.71
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

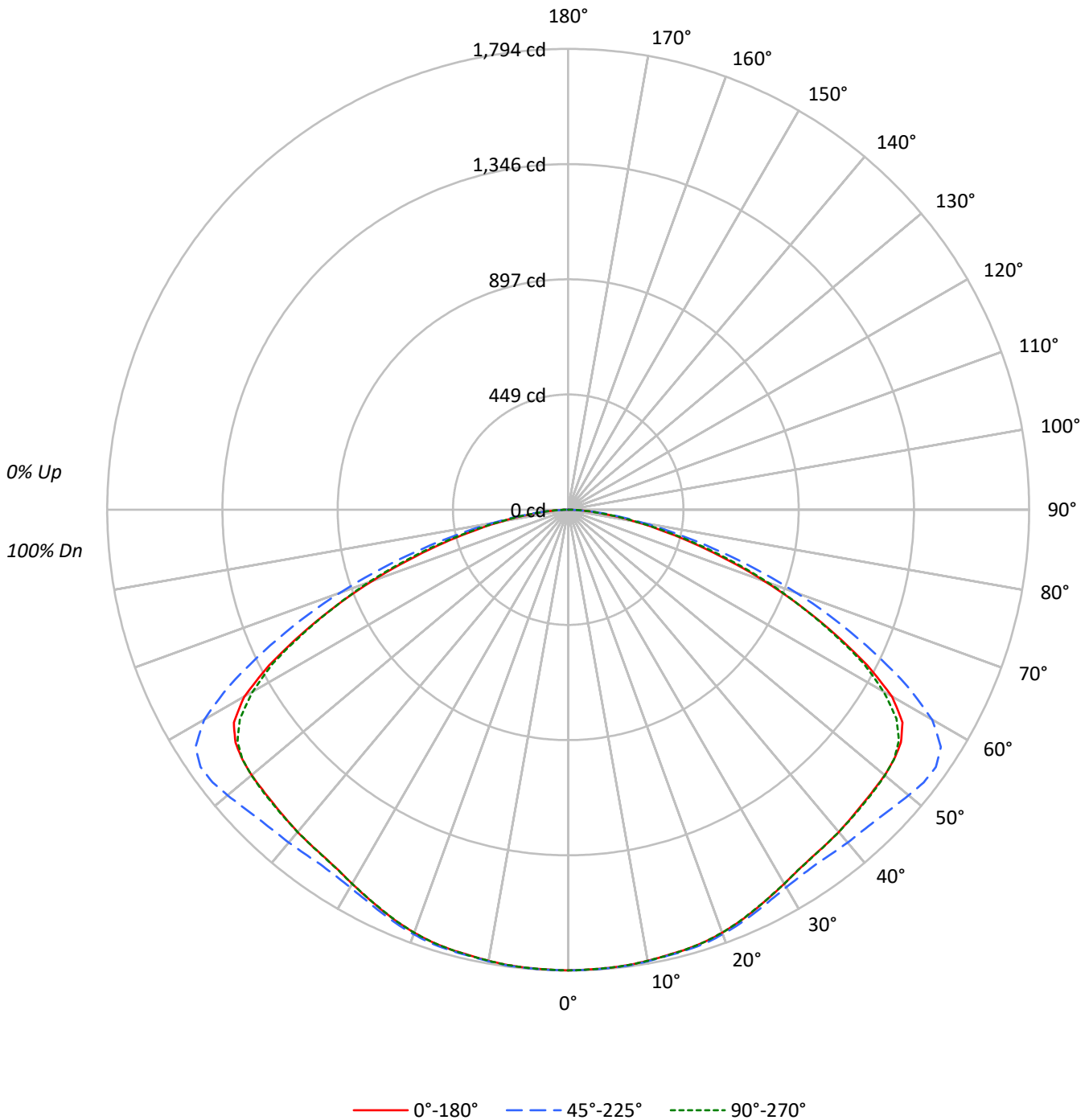
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	88	81	74	94	86	79	73	82	77	72	79	74	70	76	72	68	66
3	87	76	67	60	85	74	66	59	71	64	58	68	62	57	66	61	56	54
4	79	66	57	49	77	65	56	49	62	55	48	60	53	48	58	52	47	45
5	72	58	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40	38
6	66	52	42	36	64	51	42	35	49	41	35	47	40	35	46	39	34	32
7	61	47	37	31	59	46	37	31	44	36	30	43	36	30	41	35	30	28
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24
9	53	39	30	24	51	38	30	24	37	29	24	36	29	24	35	28	23	22
10	49	35	27	22	48	35	27	21	34	26	21	33	26	21	32	26	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19422	19422	19422
5°	19466	19476	19466
10°	19609	19630	19609
15°	19865	19908	19865
20°	20194	20269	20194
25°	20535	20646	20523
30°	21022	21220	21022
35°	21841	22261	21853
40°	23156	23911	23156
45°	24813	26075	24856
50°	27091	29143	27108
55°	29848	32978	29654
60°	31522	35436	30710
65°	29325	33574	29087
70°	25740	29920	26155
75°	21045	24451	21865
80°	16413	18633	16762
85°	11642	12921	11865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	2.4
10°-20°	502.1	7.0
20°-30°	796.9	11.1
30°-40°	1050.4	14.6
40°-50°	1289.5	17.9
50°-60°	1471.9	20.4
60°-70°	1210.9	16.8
70°-80°	594.2	8.2
80°-90°	124.4	1.7
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°	1469.8	20.4
0°-40°	2520.1	34.9
0°-60°	5281.5	73.2
0°-90°	7211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1794	1794	1794	1794	1794	
5°	1791	1792	1792	1792	1791	171
15°	1772	1773	1776	1774	1772	501
25°	1719	1724	1728	1724	1718	794
35°	1652	1669	1684	1669	1653	1039
45°	1620	1662	1703	1665	1623	1255
55°	1581	1670	1747	1665	1571	1401
65°	1144	1235	1310	1234	1135	1130
75°	503	552	584	558	523	544
85°	94	102	104	101	96	116
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°	1793.6	1793.6	1793.6	1793.6	1793.6	1793.6	1793.6	1793.6	1793.6	1793.6	1793.6
2.5°	1791.7	1791.7	1791.7	1791.7	1792.7	1792.7	1792.7	1792.7	1792.7	1792.7	1791.7
5°	1790.8	1790.8	1790.8	1790.8	1791.7	1791.7	1791.7	1791.7	1791.7	1791.7	1791.7
7.5°	1788.0	1788.0	1788.9	1788.9	1788.9	1788.9	1788.9	1789.8	1789.8	1789.8	1789.8
10°	1783.3	1783.3	1783.3	1783.3	1784.2	1784.2	1785.2	1785.2	1785.2	1785.2	1785.2
12.5°	1776.7	1776.7	1777.7	1777.7	1777.7	1778.6	1779.5	1779.5	1779.5	1779.5	1779.5
15°	1772.0	1772.0	1772.0	1773.0	1773.0	1773.9	1774.9	1774.9	1775.8	1775.8	1775.8
17.5°	1764.6	1765.5	1765.5	1765.5	1766.4	1767.4	1769.2	1769.2	1770.2	1770.2	1770.2
20°	1752.4	1752.4	1753.3	1754.3	1755.2	1756.1	1758.0	1758.9	1758.9	1758.9	1759.9
22.5°	1737.4	1737.4	1738.3	1739.3	1741.1	1742.1	1744.0	1744.9	1744.9	1744.9	1744.9
25°	1718.7	1719.6	1720.5	1721.5	1723.3	1725.2	1727.1	1729.0	1729.0	1728.0	1729.0
27.5°	1699.9	1700.9	1701.8	1703.7	1705.6	1707.4	1709.3	1711.2	1711.2	1711.2	1712.1
30°	1681.2	1682.1	1684.0	1685.9	1688.7	1690.6	1693.4	1696.2	1697.1	1697.1	1696.2
32.5°	1664.3	1665.3	1668.1	1670.9	1674.6	1678.4	1682.1	1684.9	1687.8	1687.8	1685.9
35°	1652.2	1653.1	1656.8	1661.5	1667.1	1671.8	1676.5	1680.3	1684.0	1684.0	1683.1
37.5°	1644.7	1645.6	1650.3	1655.9	1664.3	1670.9	1677.5	1682.1	1685.9	1686.8	1685.9
40°	1638.1	1639.1	1644.7	1652.2	1661.5	1670.9	1679.3	1685.9	1689.6	1691.5	1691.5
42.5°	1628.7	1630.6	1636.2	1646.5	1657.8	1669.0	1679.3	1688.7	1693.4	1695.2	1694.3
45°	1620.3	1622.2	1629.7	1641.9	1655.0	1669.0	1682.1	1693.4	1699.9	1702.7	1700.9
47.5°	1613.8	1616.6	1625.9	1640.0	1655.9	1673.7	1689.6	1702.7	1711.2	1714.9	1712.1
50°	1608.1	1611.9	1622.2	1639.1	1659.7	1682.1	1700.9	1715.9	1726.2	1729.9	1727.1
52.5°	1597.8	1604.4	1616.6	1637.2	1662.5	1687.8	1710.2	1728.0	1740.2	1744.0	1740.2
55°	1581.0	1587.5	1601.6	1625.0	1655.9	1684.0	1711.2	1730.8	1742.1	1746.8	1741.1
57.5°	1542.6	1549.1	1563.2	1590.3	1621.3	1653.1	1681.2	1702.7	1716.8	1719.6	1708.4
60°	1455.5	1460.2	1481.7	1508.9	1538.8	1569.7	1598.8	1623.1	1635.3	1636.2	1620.3
62.5°	1311.2	1318.7	1340.3	1369.3	1397.4	1422.7	1449.9	1475.1	1484.5	1488.3	1476.1
65°	1144.5	1154.8	1170.8	1197.0	1225.1	1245.7	1275.7	1297.2	1306.6	1310.3	1305.6
67.5°	978.7	988.1	996.5	1021.8	1047.1	1066.8	1095.8	1115.5	1123.0	1128.6	1125.8
70°	813.0	821.4	828.9	849.5	869.2	894.5	911.3	930.0	934.7	945.0	940.3
72.5°	651.9	658.4	665.9	685.6	697.8	724.9	732.4	748.3	756.8	759.6	754.9
75°	503.0	507.6	516.1	532.0	541.4	562.0	564.8	578.8	584.4	584.4	582.6
77.5°	372.8	376.5	385.9	395.2	404.6	418.7	415.9	425.2	429.0	430.8	429.0
80°	263.2	267.9	269.7	277.2	285.7	291.3	289.4	294.1	295.0	298.8	297.8
82.5°	168.6	173.3	170.5	175.1	180.8	184.5	185.4	185.4	185.4	188.3	187.3
85°	93.7	97.4	95.5	97.4	100.2	103.0	101.2	102.1	103.0	104.0	103.0
87.5°	30.9	34.7	31.8	32.8	34.7	36.5	37.5	34.7	36.5	36.5	36.5
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°	1793.6	1793.6	1793.6	1793.6	1793.6	1793.6	1793.6	1793.6
2.5°	1791.7	1791.7	1791.7	1791.7	1791.7	1791.7	1791.7	1791.7
5°	1791.7	1791.7	1791.7	1791.7	1790.8	1790.8	1790.8	1790.8
7.5°	1788.9	1788.9	1788.9	1788.9	1788.0	1788.0	1788.0	1788.0
10°	1784.2	1784.2	1784.2	1783.3	1783.3	1783.3	1783.3	1783.3
12.5°	1779.5	1778.6	1778.6	1778.6	1778.6	1777.7	1777.7	1777.7
15°	1775.8	1774.9	1774.9	1773.9	1773.0	1773.0	1772.0	1772.0
17.5°	1769.2	1769.2	1768.3	1767.4	1766.4	1765.5	1765.5	1764.6
20°	1758.9	1758.0	1756.1	1755.2	1755.2	1754.3	1753.3	1752.4
22.5°	1744.0	1743.0	1742.1	1740.2	1739.3	1738.3	1737.4	1736.5
25°	1727.1	1726.2	1725.2	1723.3	1722.4	1720.5	1719.6	1717.7
27.5°	1710.2	1710.2	1707.4	1705.6	1703.7	1701.8	1700.9	1699.0
30°	1695.2	1694.3	1692.4	1688.7	1686.8	1684.0	1682.1	1681.2
32.5°	1684.0	1683.1	1679.3	1674.6	1670.9	1667.1	1666.2	1664.3
35°	1681.2	1677.5	1671.8	1666.2	1661.5	1656.8	1654.0	1653.1
37.5°	1684.0	1677.5	1670.9	1663.4	1656.8	1650.3	1646.5	1644.7
40°	1686.8	1680.3	1672.8	1662.5	1653.1	1645.6	1640.9	1638.1
42.5°	1688.7	1681.2	1671.8	1659.7	1648.4	1639.1	1633.4	1630.6
45°	1693.4	1684.9	1672.8	1657.8	1643.7	1633.4	1626.9	1623.1
47.5°	1703.7	1691.5	1676.5	1658.7	1641.9	1627.8	1620.3	1616.6
50°	1716.8	1701.8	1683.1	1661.5	1640.9	1623.1	1613.8	1609.1
52.5°	1729.0	1711.2	1688.7	1663.4	1637.2	1616.6	1602.5	1597.8
55°	1729.0	1707.4	1679.3	1650.3	1620.3	1596.0	1577.2	1570.7
57.5°	1692.4	1669.0	1634.4	1602.5	1569.7	1540.7	1521.0	1514.5
60°	1598.8	1578.2	1537.9	1507.0	1470.5	1438.6	1423.6	1418.0
62.5°	1455.5	1440.5	1404.0	1376.8	1337.5	1312.2	1294.4	1295.3
65°	1288.8	1275.7	1245.7	1221.3	1185.7	1166.1	1148.3	1135.2
67.5°	1113.6	1098.6	1074.3	1052.7	1023.7	1009.7	990.0	977.8
70°	930.0	918.8	896.3	881.3	857.0	844.8	826.1	826.1
72.5°	746.5	740.9	724.9	711.8	693.1	681.8	666.9	669.7
75°	576.0	578.8	562.9	553.5	538.5	529.2	517.9	522.6
77.5°	431.8	428.0	416.8	411.2	398.1	394.3	383.1	386.8
80°	298.8	297.8	288.5	284.7	277.2	275.4	266.0	268.8
82.5°	188.3	188.3	184.5	180.8	178.0	176.1	169.5	171.4
85°	104.0	103.0	102.1	99.3	97.4	98.3	93.7	95.5
87.5°	36.5	35.6	35.6	33.7	31.8	34.7	30.9	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)