

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: P130736

Luminaire Tested: **TBLED-LD1-8-W-UNV-L840-CD1-CMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130736
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-L840-CD1-CMS
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
WIDE DISTRIBUTION WITH MINI SENSOR.
Light Source: (160) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7378.7 lumens
Efficiency: N/A
Efficacy: 95.8 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

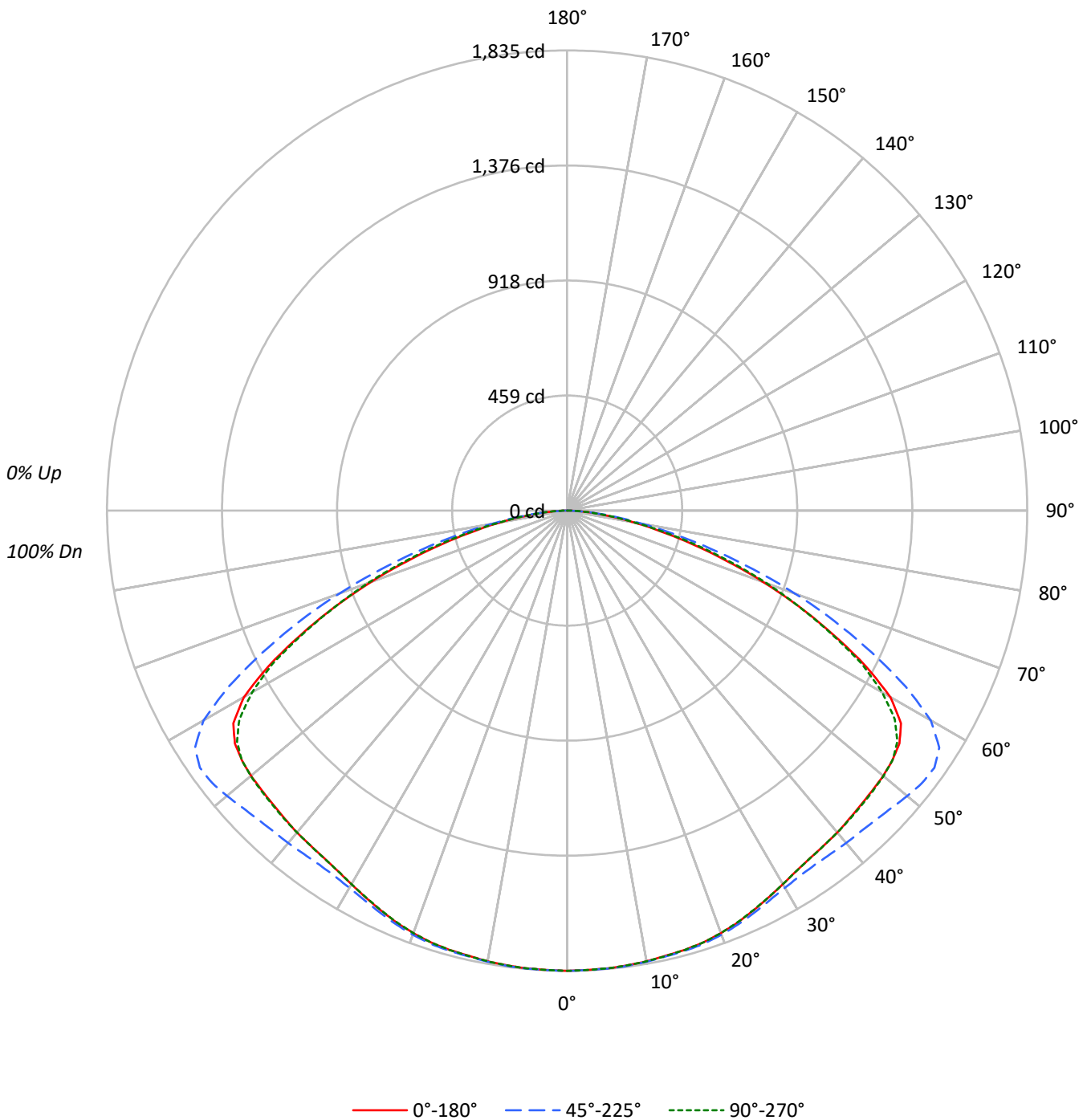
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19874	19874	19874
5°	19918	19929	19918
10°	20065	20086	20065
15°	20328	20371	20328
20°	20663	20740	20663
25°	21012	21127	21001
30°	21510	21714	21510
35°	22349	22780	22361
40°	23694	24466	23694
45°	25391	26682	25435
50°	27721	29820	27738
55°	30541	33745	30343
60°	32254	36261	31425
65°	30007	34355	29763
70°	26339	30616	26763
75°	21534	25020	22375
80°	16794	19063	17155
85°	11903	13220	12151



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	2.4
10°-20°	513.8	7.0
20°-30°	815.4	11.1
30°-40°	1074.8	14.6
40°-50°	1319.5	17.9
50°-60°	1506.2	20.4
60°-70°	1239.1	16.8
70°-80°	608.0	8.2
80°-90°	127.3	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°	1503.9	20.4
0°-40°	2578.7	34.9
0°-60°	5404.3	73.2
0°-90°	7378.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7378.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1835	1835	1835	1835	1835	
5°	1832	1833	1833	1833	1832	175
15°	1813	1815	1817	1816	1813	513
25°	1759	1764	1768	1764	1758	813
35°	1691	1708	1723	1708	1692	1063
45°	1658	1701	1742	1704	1661	1285
55°	1618	1709	1787	1704	1607	1434
65°	1171	1264	1341	1262	1162	1156
75°	515	564	598	571	535	557
85°	96	104	106	103	98	118
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°	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3
2.5°	1833.4	1833.4	1833.4	1833.4	1834.3	1834.3	1834.3	1834.3	1834.3	1834.3	1833.4
5°	1832.4	1832.4	1832.4	1832.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4
7.5°	1829.6	1829.6	1830.5	1830.5	1830.5	1830.5	1830.5	1831.5	1831.5	1831.5	1831.5
10°	1824.8	1824.8	1824.8	1824.8	1825.7	1825.7	1826.7	1826.7	1826.7	1826.7	1826.7
12.5°	1818.1	1818.1	1819.0	1819.0	1819.0	1820.0	1820.9	1820.9	1820.9	1820.9	1820.9
15°	1813.3	1813.3	1813.3	1814.2	1814.2	1815.2	1816.1	1816.1	1817.1	1817.1	1817.1
17.5°	1805.6	1806.6	1806.6	1806.6	1807.5	1808.5	1810.4	1810.4	1811.3	1811.3	1811.3
20°	1793.1	1793.1	1794.1	1795.0	1796.0	1797.0	1798.9	1799.8	1799.8	1799.8	1800.8
22.5°	1777.8	1777.8	1778.8	1779.7	1781.6	1782.6	1784.5	1785.5	1785.5	1785.5	1785.5
25°	1758.6	1759.6	1760.5	1761.5	1763.4	1765.3	1767.3	1769.2	1769.2	1768.2	1769.2
27.5°	1739.5	1740.4	1741.4	1743.3	1745.2	1747.1	1749.0	1751.0	1751.0	1751.0	1751.9
30°	1720.3	1721.3	1723.2	1725.1	1728.0	1729.9	1732.8	1735.6	1736.6	1736.6	1735.6
32.5°	1703.0	1704.0	1706.9	1709.8	1713.6	1717.4	1721.3	1724.1	1727.0	1727.0	1725.1
35°	1690.6	1691.5	1695.4	1700.2	1705.9	1710.7	1715.5	1719.3	1723.2	1723.2	1722.2
37.5°	1682.9	1683.9	1688.7	1694.4	1703.0	1709.8	1716.5	1721.3	1725.1	1726.0	1725.1
40°	1676.2	1677.2	1682.9	1690.6	1700.2	1709.8	1718.4	1725.1	1728.9	1730.8	1730.8
42.5°	1666.6	1668.5	1674.3	1684.8	1696.3	1707.8	1718.4	1728.0	1732.8	1734.7	1733.7
45°	1658.0	1659.9	1667.6	1680.0	1693.5	1707.8	1721.3	1732.8	1739.5	1742.3	1740.4
47.5°	1651.3	1654.2	1663.8	1678.1	1694.4	1712.6	1728.9	1742.3	1751.0	1754.8	1751.9
50°	1645.5	1649.4	1659.9	1677.2	1698.3	1721.3	1740.4	1755.8	1766.3	1770.1	1767.3
52.5°	1635.0	1641.7	1654.2	1675.3	1701.1	1727.0	1750.0	1768.2	1780.7	1784.5	1780.7
55°	1617.7	1624.5	1638.8	1662.8	1694.4	1723.2	1751.0	1771.1	1782.6	1787.4	1781.6
57.5°	1578.5	1585.2	1599.5	1627.3	1659.0	1691.5	1720.3	1742.3	1756.7	1759.6	1748.1
60°	1489.3	1494.1	1516.2	1544.0	1574.6	1606.2	1636.0	1660.9	1673.3	1674.3	1658.0
62.5°	1341.7	1349.4	1371.4	1401.2	1429.9	1455.8	1483.6	1509.5	1519.0	1522.9	1510.4
65°	1171.1	1181.7	1198.0	1224.8	1253.6	1274.6	1305.3	1327.4	1336.9	1340.8	1336.0
67.5°	1001.5	1011.1	1019.7	1045.6	1071.5	1091.6	1121.3	1141.4	1149.1	1154.9	1152.0
70°	831.9	840.5	848.2	869.3	889.4	915.3	932.5	951.7	956.5	967.0	962.2
72.5°	667.0	673.7	681.4	701.5	714.0	741.8	749.5	765.7	774.4	777.2	772.5
75°	514.7	519.4	528.1	544.4	553.9	575.0	577.9	592.3	598.0	598.0	596.1
77.5°	381.4	385.3	394.9	404.4	414.0	428.4	425.5	435.1	438.9	440.9	438.9
80°	269.3	274.1	276.0	283.7	292.3	298.1	296.1	300.9	301.9	305.7	304.8
82.5°	172.5	177.3	174.4	179.2	185.0	188.8	189.8	189.8	189.8	192.6	191.7
85°	95.8	99.7	97.8	99.7	102.5	105.4	103.5	104.5	105.4	106.4	105.4
87.5°	31.6	35.5	32.6	33.5	35.5	37.4	38.3	35.5	37.4	37.4	37.4
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°	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3
2.5°	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4
5°	1833.4	1833.4	1833.4	1833.4	1832.4	1832.4	1832.4	1832.4
7.5°	1830.5	1830.5	1830.5	1830.5	1829.6	1829.6	1829.6	1829.6
10°	1825.7	1825.7	1825.7	1824.8	1824.8	1824.8	1824.8	1824.8
12.5°	1820.9	1820.0	1820.0	1820.0	1820.0	1819.0	1819.0	1819.0
15°	1817.1	1816.1	1816.1	1815.2	1814.2	1814.2	1813.3	1813.3
17.5°	1810.4	1810.4	1809.4	1808.5	1807.5	1806.6	1806.6	1805.6
20°	1799.8	1798.9	1797.0	1796.0	1796.0	1795.0	1794.1	1793.1
22.5°	1784.5	1783.5	1782.6	1780.7	1779.7	1778.8	1777.8	1776.8
25°	1767.3	1766.3	1765.3	1763.4	1762.5	1760.5	1759.6	1757.7
27.5°	1750.0	1750.0	1747.1	1745.2	1743.3	1741.4	1740.4	1738.5
30°	1734.7	1733.7	1731.8	1728.0	1726.0	1723.2	1721.3	1720.3
32.5°	1723.2	1722.2	1718.4	1713.6	1709.8	1705.9	1705.0	1703.0
35°	1720.3	1716.5	1710.7	1705.0	1700.2	1695.4	1692.5	1691.5
37.5°	1723.2	1716.5	1709.8	1702.1	1695.4	1688.7	1684.8	1682.9
40°	1726.0	1719.3	1711.7	1701.1	1691.5	1683.9	1679.1	1676.2
42.5°	1728.0	1720.3	1710.7	1698.3	1686.8	1677.2	1671.4	1668.5
45°	1732.8	1724.1	1711.7	1696.3	1682.0	1671.4	1664.7	1660.9
47.5°	1743.3	1730.8	1715.5	1697.3	1680.0	1665.7	1658.0	1654.2
50°	1756.7	1741.4	1722.2	1700.2	1679.1	1660.9	1651.3	1646.5
52.5°	1769.2	1751.0	1728.0	1702.1	1675.3	1654.2	1639.8	1635.0
55°	1769.2	1747.1	1718.4	1688.7	1658.0	1633.1	1613.9	1607.2
57.5°	1731.8	1707.8	1672.4	1639.8	1606.2	1576.5	1556.4	1549.7
60°	1636.0	1614.9	1573.7	1542.0	1504.7	1472.1	1456.7	1451.0
62.5°	1489.3	1474.0	1436.6	1408.8	1368.6	1342.7	1324.5	1325.4
65°	1318.7	1305.3	1274.6	1249.7	1213.3	1193.2	1175.0	1161.6
67.5°	1139.5	1124.2	1099.3	1077.2	1047.5	1033.1	1013.0	1000.6
70°	951.7	940.2	917.2	901.8	876.9	864.5	845.3	845.3
72.5°	763.8	758.1	741.8	728.4	709.2	697.7	682.4	685.2
75°	589.4	592.3	576.0	566.4	551.1	541.5	530.0	534.8
77.5°	441.8	438.0	426.5	420.7	407.3	403.5	392.0	395.8
80°	305.7	304.8	295.2	291.3	283.7	281.8	272.2	275.1
82.5°	192.6	192.6	188.8	185.0	182.1	180.2	173.5	175.4
85°	106.4	105.4	104.5	101.6	99.7	100.6	95.8	97.8
87.5°	37.4	36.4	36.4	34.5	32.6	35.5	31.6	32.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)