

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: P130708

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130708
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
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
WIDE DISTRIBUTION.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

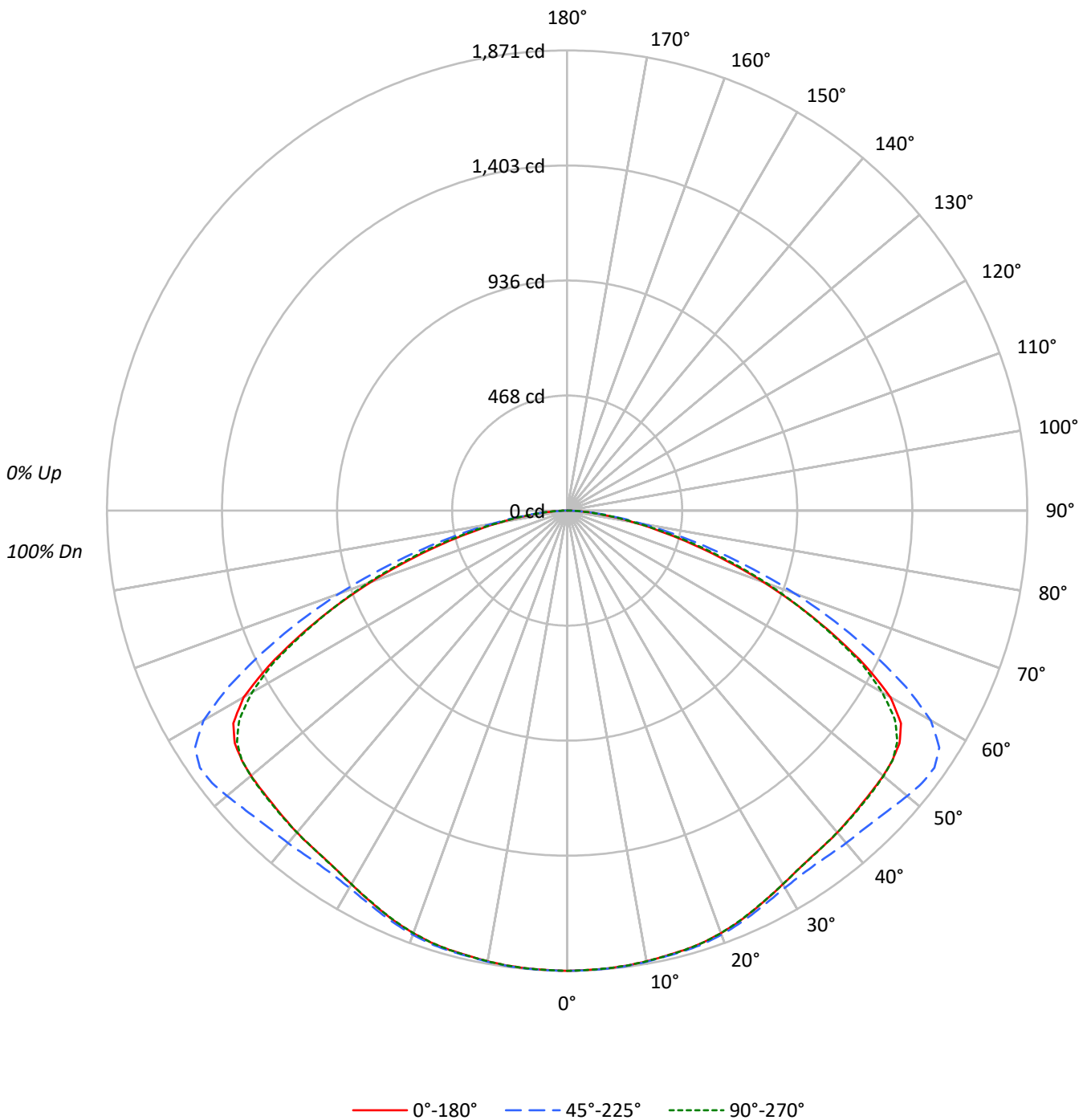
Lumens per Lamp: N/A
Luminaire Lumens: 7524.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.42 / 1.71
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

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	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					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82					82			
2	97	88	81	74	94	86	79	73	82	77	72	79	74	70	76	72	68	66					66			
3	87	76	67	60	85	74	66	59	71	64	58	68	62	57	66	61	56	54					54			
4	79	66	57	49	77	65	56	49	62	55	48	60	53	48	58	52	47	45					45			
5	72	58	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40	38					38			
6	66	52	42	36	64	51	42	35	49	41	35	47	40	35	46	39	34	32					32			
7	61	47	37	31	59	46	37	31	44	36	30	43	36	30	41	35	30	28					28			
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24					24			
9	53	39	30	24	51	38	30	24	37	29	24	36	29	24	35	28	23	22					22			
10	49	35	27	22	48	35	27	21	34	26	21	33	26	21	32	26	21	19					19			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20265	20265	20265
5°	20311	20322	20311
10°	20460	20482	20460
15°	20729	20772	20729
20°	21070	21149	21070
25°	21427	21542	21415
30°	21934	22142	21934
35°	22789	23228	22802
40°	24161	24948	24161
45°	25891	27208	25936
50°	28268	30408	28283
55°	31143	34409	30941
60°	32891	36976	32044
65°	30599	35032	30348
70°	26858	31221	27289
75°	21957	25513	22815
80°	17124	19438	17492
85°	12139	13481	12387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	2.4
10°-20°	523.9	7.0
20°-30°	831.5	11.1
30°-40°	1095.9	14.6
40°-50°	1345.5	17.9
50°-60°	1535.8	20.4
60°-70°	1263.5	16.8
70°-80°	620.0	8.2
80°-90°	129.8	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°	1533.5	20.4
0°-40°	2629.5	34.9
0°-60°	5510.8	73.2
0°-90°	7524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7524.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1871	1871	1871	1871	1871	
5°	1868	1870	1870	1870	1868	178
15°	1849	1850	1853	1851	1849	523
25°	1793	1799	1803	1799	1792	829
35°	1724	1742	1757	1741	1725	1084
45°	1691	1734	1777	1738	1694	1310
55°	1650	1742	1823	1737	1639	1462
65°	1194	1289	1367	1287	1184	1179
75°	525	576	610	582	545	568
85°	98	106	108	105	100	120
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°	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4
2.5°	1869.5	1869.5	1869.5	1869.5	1870.5	1870.5	1870.5	1870.5	1870.5	1870.5	1869.5
5°	1868.5	1868.5	1868.5	1868.5	1869.5	1869.5	1869.5	1869.5	1869.5	1869.5	1869.5
7.5°	1865.6	1865.6	1866.6	1866.6	1866.6	1866.6	1866.6	1867.5	1867.5	1867.5	1867.5
10°	1860.7	1860.7	1860.7	1860.7	1861.7	1861.7	1862.7	1862.7	1862.7	1862.7	1862.7
12.5°	1853.9	1853.9	1854.8	1854.8	1854.8	1855.8	1856.8	1856.8	1856.8	1856.8	1856.8
15°	1849.0	1849.0	1849.0	1849.9	1849.9	1850.9	1851.9	1851.9	1852.9	1852.9	1852.9
17.5°	1841.2	1842.1	1842.1	1842.1	1843.1	1844.1	1846.0	1846.0	1847.0	1847.0	1847.0
20°	1828.4	1828.4	1829.4	1830.4	1831.4	1832.4	1834.3	1835.3	1835.3	1835.3	1836.3
22.5°	1812.8	1812.8	1813.8	1814.8	1816.7	1817.7	1819.7	1820.6	1820.6	1820.6	1820.6
25°	1793.3	1794.2	1795.2	1796.2	1798.2	1800.1	1802.1	1804.0	1804.0	1803.0	1804.0
27.5°	1773.7	1774.7	1775.7	1777.6	1779.6	1781.5	1783.5	1785.4	1785.4	1785.4	1786.4
30°	1754.2	1755.2	1757.1	1759.1	1762.0	1763.9	1766.9	1769.8	1770.8	1770.8	1769.8
32.5°	1736.6	1737.6	1740.5	1743.4	1747.3	1751.2	1755.2	1758.1	1761.0	1761.0	1759.1
35°	1723.9	1724.9	1728.8	1733.7	1739.5	1744.4	1749.3	1753.2	1757.1	1757.1	1756.1
37.5°	1716.1	1717.0	1721.9	1727.8	1736.6	1743.4	1750.3	1755.2	1759.1	1760.0	1759.1
40°	1709.2	1710.2	1716.1	1723.9	1733.7	1743.4	1752.2	1759.1	1763.0	1764.9	1764.9
42.5°	1699.5	1701.4	1707.3	1718.0	1729.7	1741.5	1752.2	1762.0	1766.9	1768.8	1767.9
45°	1690.7	1692.6	1700.4	1713.1	1726.8	1741.5	1755.2	1766.9	1773.7	1776.7	1774.7
47.5°	1683.8	1686.7	1696.5	1711.2	1727.8	1746.4	1763.0	1776.7	1785.4	1789.4	1786.4
50°	1678.0	1681.9	1692.6	1710.2	1731.7	1755.2	1774.7	1790.3	1801.1	1805.0	1802.1
52.5°	1667.2	1674.0	1686.7	1708.2	1734.6	1761.0	1784.5	1803.0	1815.7	1819.7	1815.7
55°	1649.6	1656.5	1671.1	1695.5	1727.8	1757.1	1785.4	1806.0	1817.7	1822.6	1816.7
57.5°	1609.5	1616.4	1631.0	1659.4	1691.6	1724.9	1754.2	1776.7	1791.3	1794.2	1782.5
60°	1518.7	1523.5	1546.0	1574.4	1605.6	1637.9	1668.2	1693.6	1706.3	1707.3	1690.7
62.5°	1368.2	1376.0	1398.5	1428.7	1458.1	1484.5	1512.8	1539.2	1549.0	1552.9	1540.2
65°	1194.2	1205.0	1221.6	1248.9	1278.3	1299.8	1331.0	1353.5	1363.3	1367.2	1362.3
67.5°	1021.2	1031.0	1039.8	1066.2	1092.6	1113.1	1143.4	1163.9	1171.7	1177.6	1174.7
70°	848.3	857.1	864.9	886.4	906.9	933.3	950.9	970.4	975.3	986.1	981.2
72.5°	680.2	687.0	694.8	715.4	728.1	756.4	764.2	780.8	789.6	792.6	787.7
75°	524.8	529.7	538.5	555.1	564.9	586.4	589.3	603.9	609.8	609.8	607.9
77.5°	388.9	392.9	402.6	412.4	422.2	436.8	433.9	443.7	447.6	449.5	447.6
80°	274.6	279.5	281.5	289.3	298.1	303.9	302.0	306.9	307.8	311.7	310.8
82.5°	175.9	180.8	177.9	182.7	188.6	192.5	193.5	193.5	193.5	196.4	195.5
85°	97.7	101.6	99.7	101.6	104.6	107.5	105.5	106.5	107.5	108.5	107.5
87.5°	32.2	36.2	33.2	34.2	36.2	38.1	39.1	36.2	38.1	38.1	38.1
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°	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4
2.5°	1869.5	1869.5	1869.5	1869.5	1869.5	1869.5	1869.5	1869.5
5°	1869.5	1869.5	1869.5	1869.5	1868.5	1868.5	1868.5	1868.5
7.5°	1866.6	1866.6	1866.6	1866.6	1865.6	1865.6	1865.6	1865.6
10°	1861.7	1861.7	1861.7	1860.7	1860.7	1860.7	1860.7	1860.7
12.5°	1856.8	1855.8	1855.8	1855.8	1855.8	1854.8	1854.8	1854.8
15°	1852.9	1851.9	1851.9	1850.9	1849.9	1849.9	1849.0	1849.0
17.5°	1846.0	1846.0	1845.1	1844.1	1843.1	1842.1	1842.1	1841.2
20°	1835.3	1834.3	1832.4	1831.4	1831.4	1830.4	1829.4	1828.4
22.5°	1819.7	1818.7	1817.7	1815.7	1814.8	1813.8	1812.8	1811.8
25°	1802.1	1801.1	1800.1	1798.2	1797.2	1795.2	1794.2	1792.3
27.5°	1784.5	1784.5	1781.5	1779.6	1777.6	1775.7	1774.7	1772.7
30°	1768.8	1767.9	1765.9	1762.0	1760.0	1757.1	1755.2	1754.2
32.5°	1757.1	1756.1	1752.2	1747.3	1743.4	1739.5	1738.5	1736.6
35°	1754.2	1750.3	1744.4	1738.5	1733.7	1728.8	1725.8	1724.9
37.5°	1757.1	1750.3	1743.4	1735.6	1728.8	1721.9	1718.0	1716.1
40°	1760.0	1753.2	1745.4	1734.6	1724.9	1717.0	1712.2	1709.2
42.5°	1762.0	1754.2	1744.4	1731.7	1720.0	1710.2	1704.3	1701.4
45°	1766.9	1758.1	1745.4	1729.7	1715.1	1704.3	1697.5	1693.6
47.5°	1777.6	1764.9	1749.3	1730.7	1713.1	1698.5	1690.7	1686.7
50°	1791.3	1775.7	1756.1	1733.7	1712.2	1693.6	1683.8	1678.9
52.5°	1804.0	1785.4	1762.0	1735.6	1708.2	1686.7	1672.1	1667.2
55°	1804.0	1781.5	1752.2	1721.9	1690.7	1665.2	1645.7	1638.9
57.5°	1765.9	1741.5	1705.3	1672.1	1637.9	1607.6	1587.1	1580.2
60°	1668.2	1646.7	1604.7	1572.4	1534.3	1501.1	1485.4	1479.6
62.5°	1518.7	1503.0	1464.9	1436.6	1395.5	1369.1	1350.6	1351.5
65°	1344.7	1331.0	1299.8	1274.3	1237.2	1216.7	1198.1	1184.4
67.5°	1162.0	1146.3	1120.9	1098.4	1068.1	1053.5	1033.0	1020.3
70°	970.4	958.7	935.2	919.6	894.2	881.5	861.9	861.9
72.5°	778.9	773.0	756.4	742.7	723.2	711.4	695.8	698.7
75°	601.0	603.9	587.3	577.6	561.9	552.2	540.4	545.3
77.5°	450.5	446.6	434.9	429.0	415.3	411.4	399.7	403.6
80°	311.7	310.8	301.0	297.1	289.3	287.3	277.5	280.5
82.5°	196.4	196.4	192.5	188.6	185.7	183.7	176.9	178.8
85°	108.5	107.5	106.5	103.6	101.6	102.6	97.7	99.7
87.5°	38.1	37.1	37.1	35.2	33.2	36.2	32.2	33.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)