

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: P130726

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P130726  
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-DIMRF-LW  
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.  
WIDE DISTRIBUTION WITH LUMAWATT WIRELESS SENSOR.  
Light Source: (160) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6972.4 lumens  
Efficiency: N/A  
Efficacy: 90.6 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

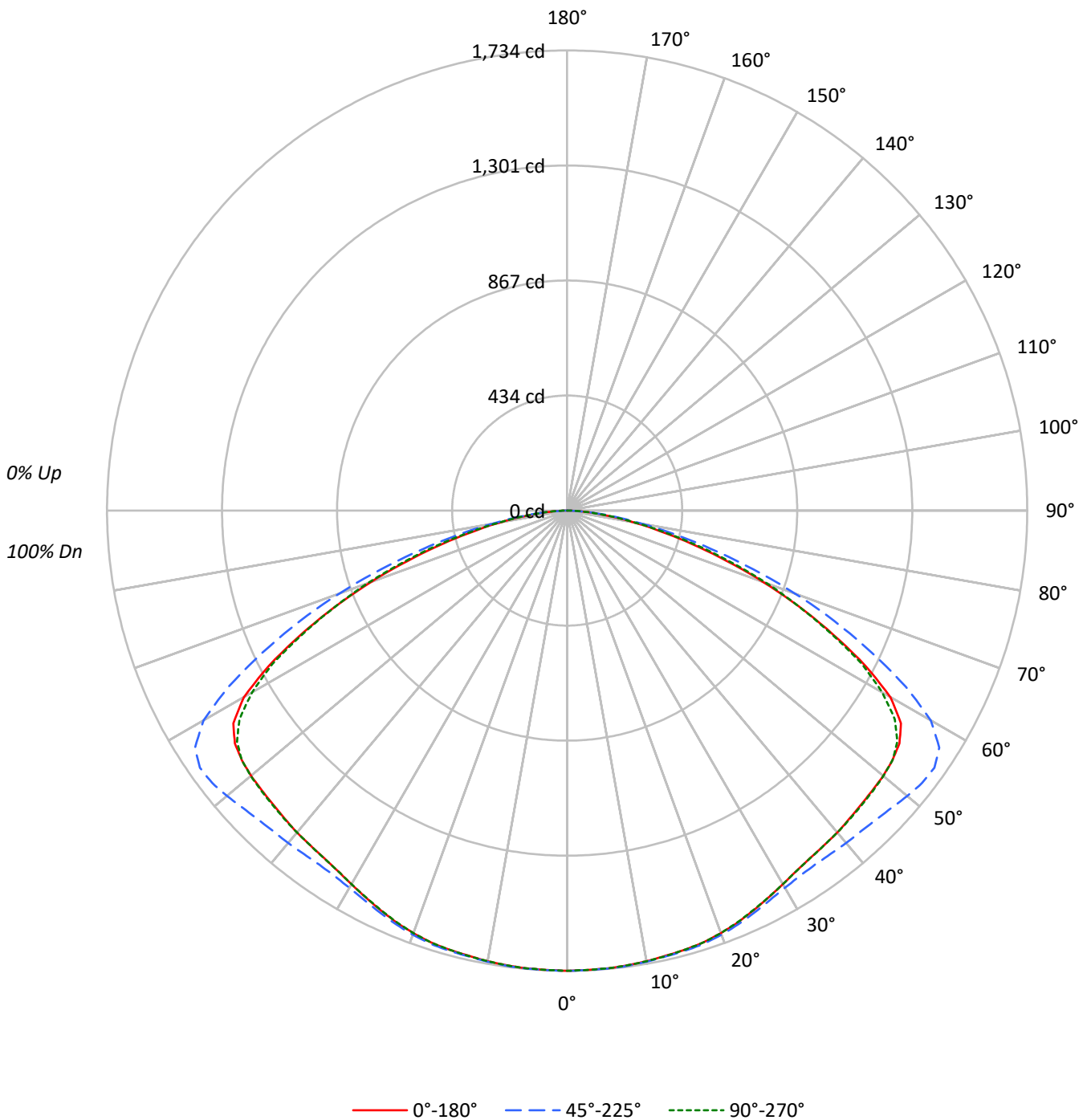
Input Watts (W): 77  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	18779	18779	18779
5°	18821	18831	18821
10°	18960	18980	18960
15°	19208	19249	19208
20°	19526	19598	19526
25°	19855	19963	19845
30°	20326	20519	20326
35°	21118	21525	21130
40°	22390	23119	22390
45°	23993	25213	24034
50°	26195	28179	26210
55°	28861	31887	28672
60°	30478	34264	29694
65°	28357	32462	28124
70°	24889	28932	25288
75°	20346	23643	21141
80°	15871	18016	16207
85°	11257	12487	11480



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.1	2.4
10°-20°	485.5	7.0
20°-30°	770.5	11.1
30°-40°	1015.6	14.6
40°-50°	1246.8	17.9
50°-60°	1423.2	20.4
60°-70°	1170.8	16.8
70°-80°	574.5	8.2
80°-90°	120.3	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°	1421.1	20.4
0°-40°	2436.7	34.9
0°-60°	5106.7	73.2
0°-90°	6972.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6972.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1732	1732	1732	1732	1732	165
15°	1713	1715	1717	1716	1713	485
25°	1662	1667	1671	1667	1661	768
35°	1598	1614	1628	1614	1598	1005
45°	1567	1607	1646	1610	1569	1214
55°	1529	1615	1689	1610	1519	1355
65°	1107	1194	1267	1193	1098	1092
75°	486	533	565	540	505	526
85°	91	98	100	97	92	112
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°	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2
2.5°	1732.4	1732.4	1732.4	1732.4	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1732.4
5°	1731.5	1731.5	1731.5	1731.5	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4
7.5°	1728.8	1728.8	1729.7	1729.7	1729.7	1729.7	1729.7	1730.6	1730.6	1730.6	1730.6
10°	1724.3	1724.3	1724.3	1724.3	1725.2	1725.2	1726.1	1726.1	1726.1	1726.1	1726.1
12.5°	1717.9	1717.9	1718.8	1718.8	1718.8	1719.7	1720.7	1720.7	1720.7	1720.7	1720.7
15°	1713.4	1713.4	1713.4	1714.3	1714.3	1715.2	1716.1	1716.1	1717.0	1717.0	1717.0
17.5°	1706.2	1707.1	1707.1	1707.1	1708.0	1708.9	1710.7	1710.7	1711.6	1711.6	1711.6
20°	1694.4	1694.4	1695.3	1696.2	1697.1	1698.0	1699.8	1700.7	1700.7	1700.7	1701.6
22.5°	1679.9	1679.9	1680.8	1681.7	1683.5	1684.4	1686.2	1687.1	1687.1	1687.1	1687.1
25°	1661.8	1662.7	1663.6	1664.5	1666.3	1668.1	1669.9	1671.7	1671.7	1670.8	1671.7
27.5°	1643.7	1644.6	1645.5	1647.3	1649.1	1650.9	1652.7	1654.5	1654.5	1654.5	1655.4
30°	1625.6	1626.5	1628.3	1630.1	1632.8	1634.6	1637.3	1640.1	1641.0	1641.0	1640.1
32.5°	1609.3	1610.2	1612.9	1615.6	1619.2	1622.8	1626.5	1629.2	1631.9	1631.9	1630.1
35°	1597.5	1598.4	1602.0	1606.5	1612.0	1616.5	1621.0	1624.7	1628.3	1628.3	1627.4
37.5°	1590.2	1591.2	1595.7	1601.1	1609.3	1615.6	1621.9	1626.5	1630.1	1631.0	1630.1
40°	1583.9	1584.8	1590.2	1597.5	1606.5	1615.6	1623.8	1630.1	1633.7	1635.5	1635.5
42.5°	1574.9	1576.7	1582.1	1592.1	1602.9	1613.8	1623.8	1632.8	1637.3	1639.1	1638.2
45°	1566.7	1568.5	1575.8	1587.5	1600.2	1613.8	1626.5	1637.3	1643.7	1646.4	1644.6
47.5°	1560.4	1563.1	1572.1	1585.7	1601.1	1618.3	1633.7	1646.4	1654.5	1658.2	1655.4
50°	1554.9	1558.5	1568.5	1584.8	1604.7	1626.5	1644.6	1659.1	1669.0	1672.7	1669.9
52.5°	1545.0	1551.3	1563.1	1583.0	1607.5	1631.9	1653.6	1670.8	1682.6	1686.2	1682.6
55°	1528.7	1535.0	1548.6	1571.2	1601.1	1628.3	1654.5	1673.6	1684.4	1689.0	1683.5
57.5°	1491.5	1497.9	1511.5	1537.7	1567.6	1598.4	1625.6	1646.4	1660.0	1662.7	1651.8
60°	1407.3	1411.8	1432.7	1458.9	1487.9	1517.8	1545.9	1569.4	1581.2	1582.1	1566.7
62.5°	1267.8	1275.1	1295.9	1324.0	1351.2	1375.6	1401.9	1426.3	1435.4	1439.0	1427.2
65°	1106.7	1116.6	1132.0	1157.4	1184.5	1204.5	1233.4	1254.3	1263.3	1266.9	1262.4
67.5°	946.4	955.4	963.6	988.0	1012.5	1031.5	1059.6	1078.6	1085.8	1091.3	1088.5
70°	786.1	794.2	801.5	821.4	840.4	864.9	881.2	899.3	903.8	913.8	909.2
72.5°	630.3	636.6	643.9	662.9	674.7	700.9	708.2	723.6	731.7	734.4	729.9
75°	486.3	490.8	499.0	514.4	523.4	543.4	546.1	559.7	565.1	565.1	563.3
77.5°	360.4	364.1	373.1	382.2	391.2	404.8	402.1	411.1	414.8	416.6	414.8
80°	254.5	259.0	260.8	268.1	276.2	281.6	279.8	284.4	285.3	288.9	288.0
82.5°	163.0	167.5	164.8	169.3	174.8	178.4	179.3	179.3	179.3	182.0	181.1
85°	90.6	94.2	92.4	94.2	96.9	99.6	97.8	98.7	99.6	100.5	99.6
87.5°	29.9	33.5	30.8	31.7	33.5	35.3	36.2	33.5	35.3	35.3	35.3
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°	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2
2.5°	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4
5°	1732.4	1732.4	1732.4	1732.4	1731.5	1731.5	1731.5	1731.5
7.5°	1729.7	1729.7	1729.7	1729.7	1728.8	1728.8	1728.8	1728.8
10°	1725.2	1725.2	1725.2	1724.3	1724.3	1724.3	1724.3	1724.3
12.5°	1720.7	1719.7	1719.7	1719.7	1719.7	1718.8	1718.8	1718.8
15°	1717.0	1716.1	1716.1	1715.2	1714.3	1714.3	1713.4	1713.4
17.5°	1710.7	1710.7	1709.8	1708.9	1708.0	1707.1	1707.1	1706.2
20°	1700.7	1699.8	1698.0	1697.1	1697.1	1696.2	1695.3	1694.4
22.5°	1686.2	1685.3	1684.4	1682.6	1681.7	1680.8	1679.9	1679.0
25°	1669.9	1669.0	1668.1	1666.3	1665.4	1663.6	1662.7	1660.9
27.5°	1653.6	1653.6	1650.9	1649.1	1647.3	1645.5	1644.6	1642.8
30°	1639.1	1638.2	1636.4	1632.8	1631.0	1628.3	1626.5	1625.6
32.5°	1628.3	1627.4	1623.8	1619.2	1615.6	1612.0	1611.1	1609.3
35°	1625.6	1621.9	1616.5	1611.1	1606.5	1602.0	1599.3	1598.4
37.5°	1628.3	1621.9	1615.6	1608.4	1602.0	1595.7	1592.1	1590.2
40°	1631.0	1624.7	1617.4	1607.5	1598.4	1591.2	1586.6	1583.9
42.5°	1632.8	1625.6	1616.5	1604.7	1593.9	1584.8	1579.4	1576.7
45°	1637.3	1629.2	1617.4	1602.9	1589.3	1579.4	1573.0	1569.4
47.5°	1647.3	1635.5	1621.0	1603.8	1587.5	1573.9	1566.7	1563.1
50°	1660.0	1645.5	1627.4	1606.5	1586.6	1569.4	1560.4	1555.8
52.5°	1671.7	1654.5	1632.8	1608.4	1583.0	1563.1	1549.5	1545.0
55°	1671.7	1650.9	1623.8	1595.7	1566.7	1543.2	1525.0	1518.7
57.5°	1636.4	1613.8	1580.3	1549.5	1517.8	1489.7	1470.7	1464.4
60°	1545.9	1525.9	1487.0	1457.1	1421.8	1391.0	1376.5	1371.1
62.5°	1407.3	1392.8	1357.5	1331.2	1293.2	1268.8	1251.5	1252.5
65°	1246.1	1233.4	1204.5	1180.9	1146.5	1127.5	1110.3	1097.6
67.5°	1076.8	1062.3	1038.7	1017.9	989.8	976.2	957.2	945.5
70°	899.3	888.4	866.7	852.2	828.6	816.9	798.7	798.7
72.5°	721.8	716.3	700.9	688.3	670.1	659.3	644.8	647.5
75°	556.9	559.7	544.3	535.2	520.7	511.7	500.8	505.3
77.5°	417.5	413.9	403.0	397.6	384.9	381.3	370.4	374.0
80°	288.9	288.0	278.9	275.3	268.1	266.2	257.2	259.9
82.5°	182.0	182.0	178.4	174.8	172.1	170.3	163.9	165.7
85°	100.5	99.6	98.7	96.0	94.2	95.1	90.6	92.4
87.5°	35.3	34.4	34.4	32.6	30.8	33.5	29.9	30.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)