

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: P130717

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130717
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-DOS
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
WIDE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7178.2 lumens
Efficiency: N/A
Efficacy: 93.2 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

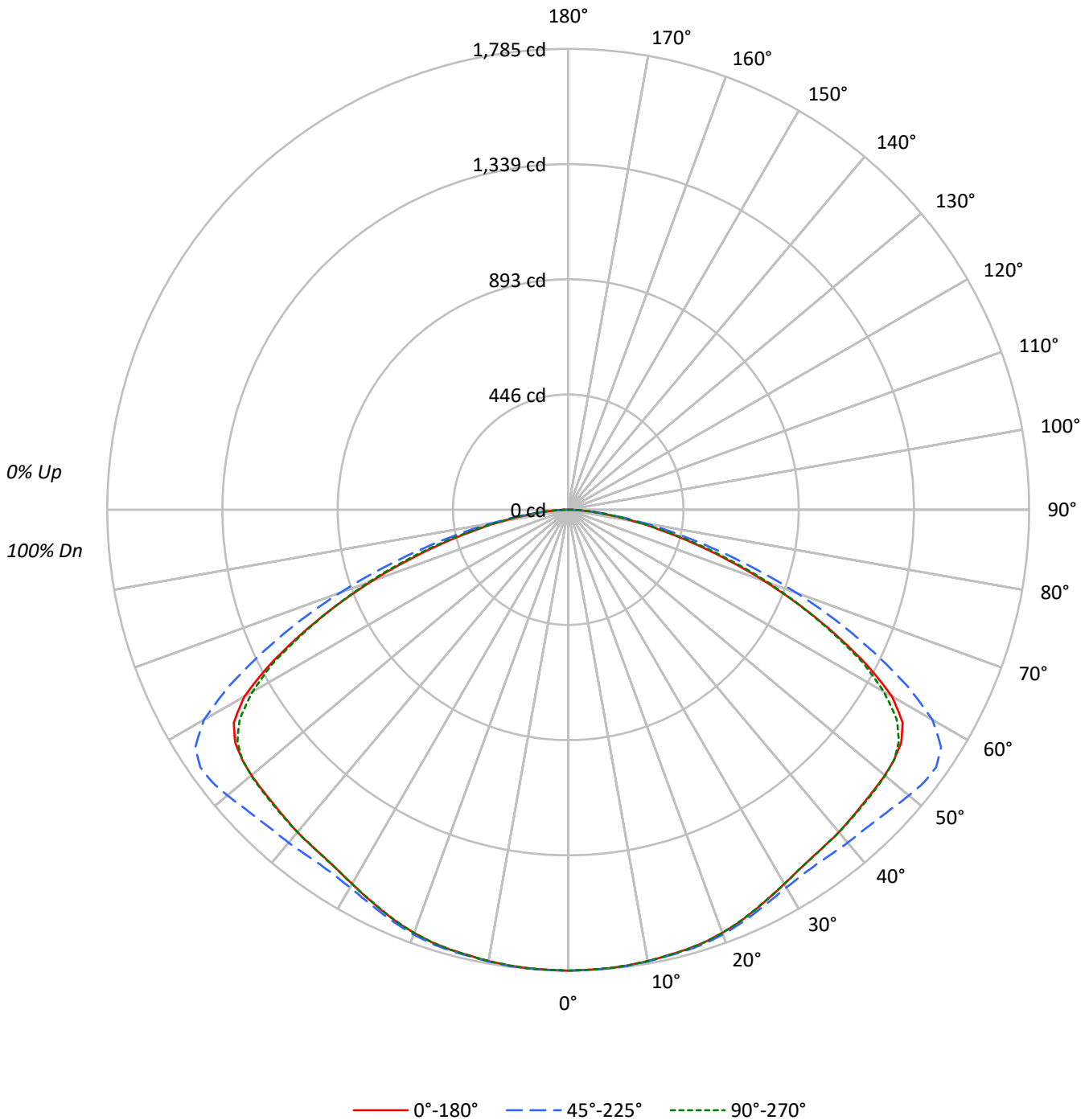
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19334	19334	19334
5°	19377	19388	19377
10°	19520	19539	19520
15°	19776	19817	19776
20°	20102	20177	20102
25°	20441	20553	20430
30°	20925	21124	20925
35°	21741	22160	21754
40°	23051	23802	23051
45°	24700	25957	24743
50°	26968	29010	26985
55°	29712	32827	29518
60°	31377	35275	30572
65°	29192	33420	28954
70°	25623	29783	26035
75°	20949	24342	21765
80°	16338	18546	16687
85°	11580	12859	11816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	2.4
10°-20°	499.8	7.0
20°-30°	793.3	11.1
30°-40°	1045.6	14.6
40°-50°	1283.6	17.9
50°-60°	1465.2	20.4
60°-70°	1205.4	16.8
70°-80°	591.5	8.2
80°-90°	123.8	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°	1463.1	20.4
0°-40°	2508.6	34.9
0°-60°	5257.5	73.2
0°-90°	7178.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7178.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1785	1785	1785	1785	1785	
5°	1783	1784	1784	1784	1783	170
15°	1764	1765	1768	1766	1764	499
25°	1711	1716	1720	1716	1710	791
35°	1645	1662	1676	1661	1646	1035
45°	1613	1654	1695	1658	1616	1250
55°	1574	1662	1739	1657	1564	1395
65°	1139	1230	1304	1228	1130	1125
75°	501	549	582	556	520	542
85°	93	101	104	100	95	115
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°	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4
2.5°	1783.6	1783.6	1783.6	1783.6	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1783.6
5°	1782.6	1782.6	1782.6	1782.6	1783.6	1783.6	1783.6	1783.6	1783.6	1783.6	1783.6
7.5°	1779.8	1779.8	1780.8	1780.8	1780.8	1780.8	1780.8	1781.7	1781.7	1781.7	1781.7
10°	1775.2	1775.2	1775.2	1775.2	1776.1	1776.1	1777.0	1777.0	1777.0	1777.0	1777.0
12.5°	1768.6	1768.6	1769.6	1769.6	1769.6	1770.5	1771.4	1771.4	1771.4	1771.4	1771.4
15°	1764.0	1764.0	1764.0	1764.9	1764.9	1765.8	1766.8	1766.8	1767.7	1767.7	1767.7
17.5°	1756.5	1757.5	1757.5	1757.5	1758.4	1759.3	1761.2	1761.2	1762.1	1762.1	1762.1
20°	1744.4	1744.4	1745.3	1746.3	1747.2	1748.1	1750.0	1750.9	1750.9	1750.9	1751.9
22.5°	1729.5	1729.5	1730.4	1731.3	1733.2	1734.1	1736.0	1736.9	1736.9	1736.9	1736.9
25°	1710.8	1711.8	1712.7	1713.6	1715.5	1717.4	1719.2	1721.1	1721.1	1720.2	1721.1
27.5°	1692.2	1693.1	1694.1	1695.9	1697.8	1699.6	1701.5	1703.4	1703.4	1703.4	1704.3
30°	1673.5	1674.5	1676.3	1678.2	1681.0	1682.9	1685.7	1688.5	1689.4	1689.4	1688.5
32.5°	1656.8	1657.7	1660.5	1663.3	1667.0	1670.7	1674.5	1677.3	1680.1	1680.1	1678.2
35°	1644.6	1645.6	1649.3	1654.0	1659.6	1664.2	1668.9	1672.6	1676.3	1676.3	1675.4
37.5°	1637.2	1638.1	1642.8	1648.4	1656.8	1663.3	1669.8	1674.5	1678.2	1679.1	1678.2
40°	1630.7	1631.6	1637.2	1644.6	1654.0	1663.3	1671.7	1678.2	1681.9	1683.8	1683.8
42.5°	1621.3	1623.2	1628.8	1639.0	1650.2	1661.4	1671.7	1681.0	1685.7	1687.5	1686.6
45°	1612.9	1614.8	1622.3	1634.4	1647.4	1661.4	1674.5	1685.7	1692.2	1695.0	1693.1
47.5°	1606.4	1609.2	1618.5	1632.5	1648.4	1666.1	1681.9	1695.0	1703.4	1707.1	1704.3
50°	1600.8	1604.5	1614.8	1631.6	1652.1	1674.5	1693.1	1708.0	1718.3	1722.0	1719.2
52.5°	1590.6	1597.1	1609.2	1629.7	1654.9	1680.1	1702.4	1720.2	1732.3	1736.0	1732.3
55°	1573.8	1580.3	1594.3	1617.6	1648.4	1676.3	1703.4	1723.0	1734.1	1738.8	1733.2
57.5°	1535.6	1542.1	1556.1	1583.1	1613.9	1645.6	1673.5	1695.0	1709.0	1711.8	1700.6
60°	1448.8	1453.5	1475.0	1502.0	1531.8	1562.6	1591.5	1615.7	1627.9	1628.8	1612.9
62.5°	1305.3	1312.7	1334.2	1363.1	1391.0	1416.2	1443.3	1468.4	1477.8	1481.5	1469.4
65°	1139.3	1149.6	1165.4	1191.5	1219.5	1240.0	1269.8	1291.3	1300.6	1304.3	1299.7
67.5°	974.3	983.6	992.0	1017.2	1042.3	1061.9	1090.8	1110.4	1117.9	1123.5	1120.7
70°	809.3	817.7	825.1	845.6	865.2	890.4	907.2	925.8	930.5	940.7	936.1
72.5°	648.9	655.4	662.9	682.5	694.6	721.6	729.1	744.9	753.3	756.1	751.5
75°	500.7	505.3	513.7	529.6	538.9	559.4	562.2	576.2	581.8	581.8	579.9
77.5°	371.1	374.8	384.1	393.4	402.8	416.8	414.0	423.3	427.0	428.9	427.0
80°	262.0	266.6	268.5	276.0	284.4	290.0	288.1	292.8	293.7	297.4	296.5
82.5°	167.8	172.5	169.7	174.3	179.9	183.7	184.6	184.6	184.6	187.4	186.5
85°	93.2	97.0	95.1	97.0	99.8	102.6	100.7	101.6	102.6	103.5	102.6
87.5°	30.8	34.5	31.7	32.6	34.5	36.4	37.3	34.5	36.4	36.4	36.4
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°	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4
2.5°	1783.6	1783.6	1783.6	1783.6	1783.6	1783.6	1783.6	1783.6
5°	1783.6	1783.6	1783.6	1783.6	1782.6	1782.6	1782.6	1782.6
7.5°	1780.8	1780.8	1780.8	1780.8	1779.8	1779.8	1779.8	1779.8
10°	1776.1	1776.1	1776.1	1775.2	1775.2	1775.2	1775.2	1775.2
12.5°	1771.4	1770.5	1770.5	1770.5	1770.5	1769.6	1769.6	1769.6
15°	1767.7	1766.8	1766.8	1765.8	1764.9	1764.9	1764.0	1764.0
17.5°	1761.2	1761.2	1760.2	1759.3	1758.4	1757.5	1757.5	1756.5
20°	1750.9	1750.0	1748.1	1747.2	1747.2	1746.3	1745.3	1744.4
22.5°	1736.0	1735.1	1734.1	1732.3	1731.3	1730.4	1729.5	1728.5
25°	1719.2	1718.3	1717.4	1715.5	1714.6	1712.7	1711.8	1709.9
27.5°	1702.4	1702.4	1699.6	1697.8	1695.9	1694.1	1693.1	1691.3
30°	1687.5	1686.6	1684.7	1681.0	1679.1	1676.3	1674.5	1673.5
32.5°	1676.3	1675.4	1671.7	1667.0	1663.3	1659.6	1658.6	1656.8
35°	1673.5	1669.8	1664.2	1658.6	1654.0	1649.3	1646.5	1645.6
37.5°	1676.3	1669.8	1663.3	1655.8	1649.3	1642.8	1639.0	1637.2
40°	1679.1	1672.6	1665.1	1654.9	1645.6	1638.1	1633.4	1630.7
42.5°	1681.0	1673.5	1664.2	1652.1	1640.9	1631.6	1626.0	1623.2
45°	1685.7	1677.3	1665.1	1650.2	1636.2	1626.0	1619.5	1615.7
47.5°	1695.9	1683.8	1668.9	1651.2	1634.4	1620.4	1612.9	1609.2
50°	1709.0	1694.1	1675.4	1654.0	1633.4	1615.7	1606.4	1601.8
52.5°	1721.1	1703.4	1681.0	1655.8	1629.7	1609.2	1595.2	1590.6
55°	1721.1	1699.6	1671.7	1642.8	1612.9	1588.7	1570.1	1563.5
57.5°	1684.7	1661.4	1626.9	1595.2	1562.6	1533.7	1514.1	1507.6
60°	1591.5	1571.0	1530.9	1500.1	1463.8	1432.1	1417.1	1411.6
62.5°	1448.8	1433.9	1397.6	1370.5	1331.4	1306.2	1288.5	1289.4
65°	1282.9	1269.8	1240.0	1215.8	1180.3	1160.8	1143.0	1130.0
67.5°	1108.5	1093.6	1069.4	1047.9	1019.0	1005.1	985.5	973.4
70°	925.8	914.6	892.2	877.3	853.1	841.0	822.3	822.3
72.5°	743.1	737.5	721.6	708.6	689.9	678.7	663.8	666.6
75°	573.4	576.2	560.3	551.0	536.1	526.8	515.6	520.2
77.5°	429.8	426.1	414.9	409.3	396.2	392.5	381.3	385.1
80°	297.4	296.5	287.2	283.4	276.0	274.1	264.8	267.6
82.5°	187.4	187.4	183.7	179.9	177.1	175.3	168.8	170.6
85°	103.5	102.6	101.6	98.8	97.0	97.9	93.2	95.1
87.5°	36.4	35.4	35.4	33.6	31.7	34.5	30.8	31.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)