

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: INVUE

Report Number: P151090

Luminaire Tested: **VWM-E04-LED-E1-SL3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151090
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-E04-LED-E1-SL3
Description: VISION WALL MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12144.6 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

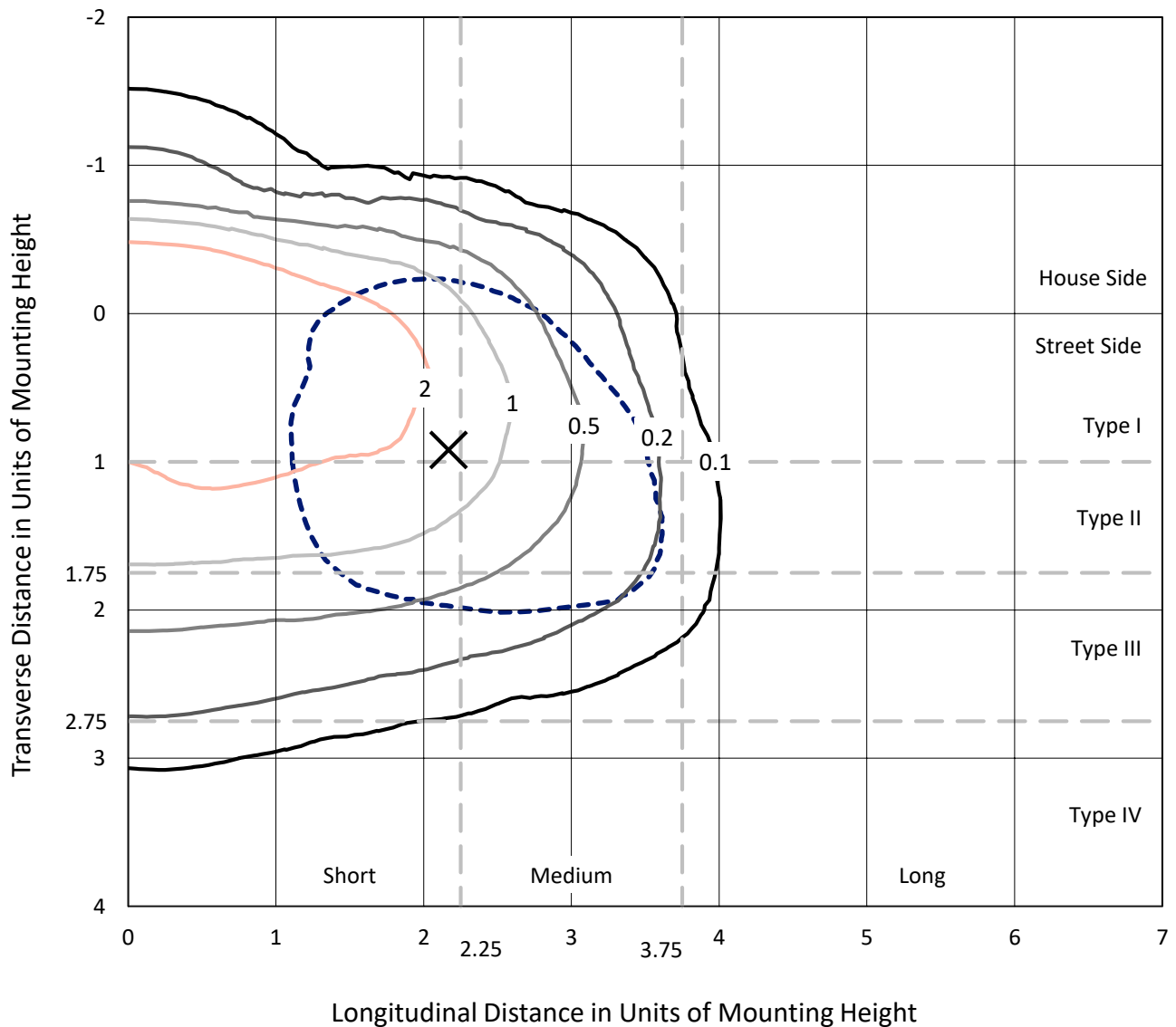
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P151090
 CATALOG NUMBER: VWM-E04-LED-E1-SL3

Iso-Footcandle Lines of Horizontal Illumination

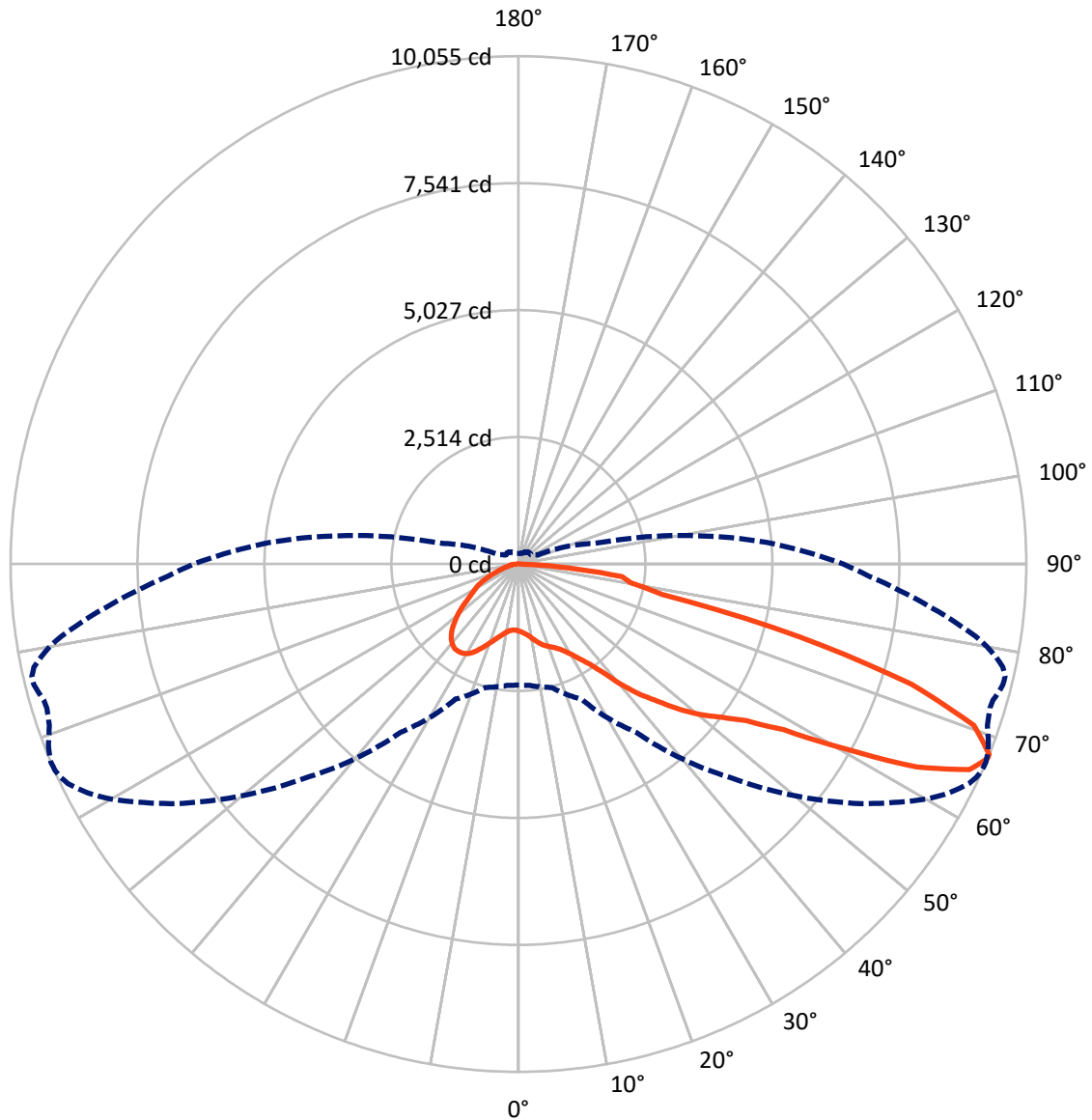
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P151090
CATALOG NUMBER: VWM-E04-LED-E1-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P151090

CATALOG NUMBER: VWM-E04-LED-E1-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2802.5	0.0	2802.5
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	9342.1	0.0	9342.1
	% Fixture	76.9	0.0	76.9
Total	Lumens	12144.6	0.0	12144.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	1.1
10°-20°	452.9	3.7
20°-30°	799.7	6.6
30°-40°	1147.9	9.5
40°-50°	1743.4	14.4
50°-60°	2566.9	21.1
60°-70°	3411.3	28.1
70°-80°	1668.9	13.7
80°-90°	221.6	1.8
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°-90°	12144.6	100.0
0°-180°	12144.6	100.0



REPORT NUMBER: P151090

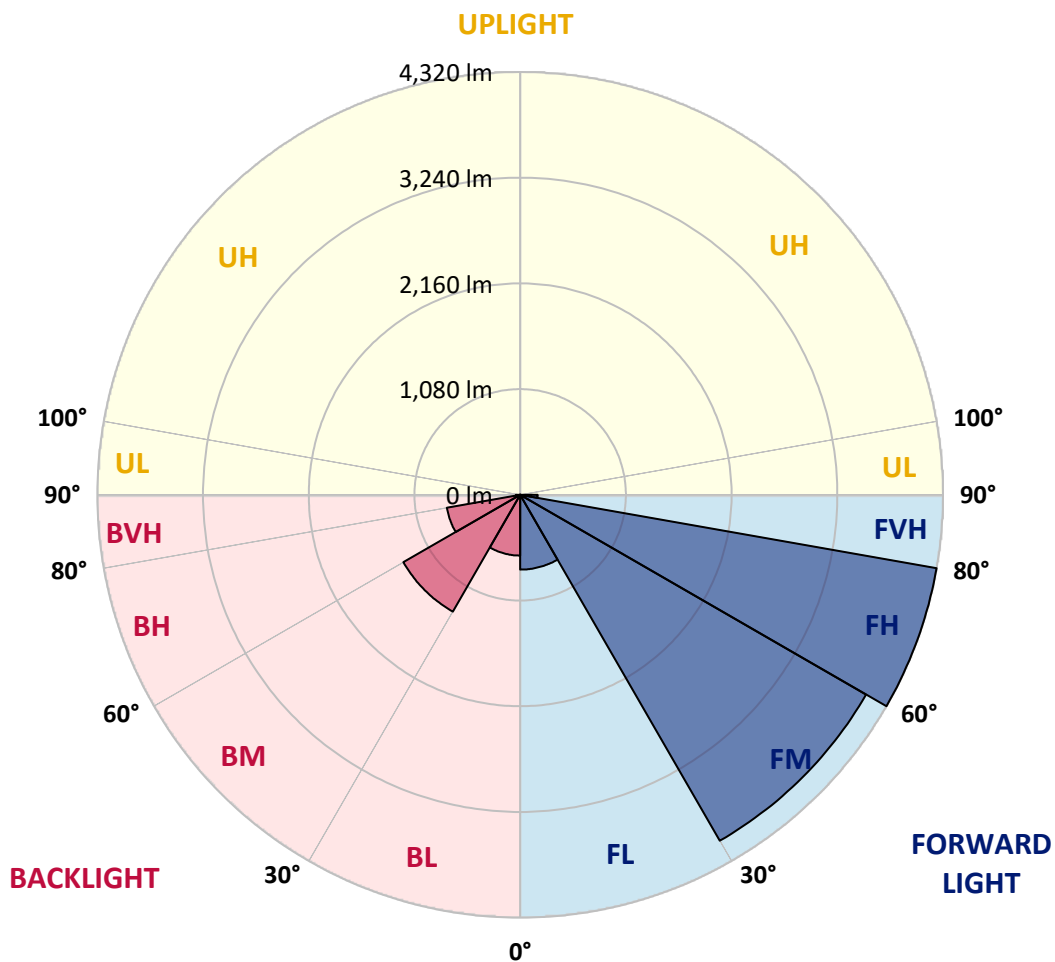
CATALOG NUMBER: VWM-E04-LED-E1-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	764.0	6.3			
FM	(30°-60°)	4080.3	33.6			
FH	(60°-80°)	4319.7	35.6			G2/5000
FVH	(80°-90°)	178.0	1.5			G2/225
BL	(0°-30°)	620.7	5.1	B2/1000		
BM	(30°-60°)	1377.8	11.3	B2/2500		
BH	(60°-80°)	760.4	6.3	B2/1000		G2/1000
BVH	(80°-90°)	43.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P151090

CATALOG NUMBER: VWM-E04-LED-E1-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1389.3	1390.7	1388.0	1386.7	1378.7	1370.7	1365.3	1358.7	1358.7	1358.7	1356.0
5°	1468.0	1462.7	1466.7	1457.3	1441.3	1426.7	1412.0	1400.0	1397.3	1397.3	1392.0
7.5°	1562.7	1556.0	1553.3	1540.0	1516.0	1494.7	1465.3	1453.3	1446.7	1444.0	1441.3
10°	1677.3	1677.3	1660.0	1637.3	1605.3	1568.0	1536.0	1514.7	1513.3	1513.3	1501.3
12.5°	1794.7	1797.3	1774.7	1752.0	1700.0	1650.7	1613.3	1589.3	1588.0	1582.7	1576.0
15°	1902.7	1896.0	1881.3	1848.0	1790.7	1732.0	1685.3	1661.3	1656.0	1650.7	1646.7
17.5°	1992.0	1985.3	1966.7	1924.0	1864.0	1794.7	1737.3	1712.0	1709.3	1706.7	1701.3
20°	2048.0	2042.7	2016.0	1966.7	1904.0	1833.3	1772.0	1754.7	1749.3	1749.3	1746.7
22.5°	2080.0	2072.0	2033.3	1968.0	1906.7	1854.7	1804.0	1793.3	1789.3	1790.7	1790.7
25°	2096.0	2089.3	2034.7	1941.3	1882.7	1868.0	1846.7	1840.0	1841.3	1842.7	1845.3
27.5°	2098.7	2089.3	2025.3	1906.7	1852.0	1893.3	1908.0	1918.7	1918.7	1924.0	1933.3
30°	2078.7	2068.0	2006.7	1880.0	1838.7	1944.0	2002.7	2030.7	2041.3	2038.7	2060.0
32.5°	2044.0	2037.3	1988.0	1880.0	1876.0	2044.0	2148.0	2188.0	2193.3	2196.0	2220.0
35°	2032.0	2030.7	2009.3	1944.0	1992.0	2220.0	2378.7	2409.3	2416.0	2416.0	2433.3
37.5°	2029.3	2036.0	2060.0	2064.0	2196.0	2481.3	2689.3	2736.0	2736.0	2749.3	2749.3
40°	2029.3	2044.0	2134.7	2242.7	2445.3	2821.3	3109.3	3162.7	3162.7	3177.3	3169.3
42.5°	2108.0	2129.3	2278.7	2484.0	2760.0	3172.0	3502.7	3562.7	3566.7	3562.7	3574.7
45°	2262.7	2281.3	2462.7	2757.3	3084.0	3548.0	3878.7	3950.7	3936.0	3945.3	3949.3
47.5°	2468.0	2497.3	2704.0	3056.0	3400.0	3896.0	4300.0	4365.3	4360.0	4364.0	4346.7
50°	2686.7	2717.3	2948.0	3352.0	3714.7	4176.0	4638.7	4736.0	4726.7	4733.3	4742.7
52.5°	2880.0	2898.7	3121.3	3574.7	3953.3	4437.3	4898.7	5020.0	5041.3	5044.0	5050.7
55°	2994.7	3017.3	3221.3	3685.3	4126.7	4693.3	5196.0	5380.0	5421.3	5432.0	5461.3
57.5°	3034.7	3058.7	3244.0	3701.3	4221.3	4933.3	5610.7	5934.7	5969.3	6026.7	6120.0
60°	3033.3	3058.7	3220.0	3665.3	4317.3	5230.7	6256.0	6798.7	6974.7	7033.3	7166.7
62.5°	2909.3	2938.7	3102.7	3556.0	4440.0	5610.7	7216.0	8050.7	8277.3	8384.0	8528.0
65°	2637.3	2658.7	2812.0	3278.7	4405.3	5985.3	8018.7	9060.0	9266.7	9422.7	9680.0
67°	2396.0	2409.3	2529.3	2950.7	4066.7	5998.7	8272.0	9310.7	9490.7	9656.0	9921.3
67.5°	2334.7	2362.7	2456.0	2850.7	3940.0	5922.7	8254.7	9272.0	9456.0	9628.0	9908.0
70°	1900.0	1940.0	1986.7	2252.0	3097.3	4982.7	7642.7	8602.7	8764.0	8924.0	9314.7
72.5°	1172.0	1244.0	1253.3	1421.3	2016.0	3444.0	6184.0	7254.7	7376.0	7490.7	7890.7
75°	690.7	701.3	734.7	870.7	1182.7	2058.7	4149.3	5389.3	5501.3	5557.3	5870.7
77.5°	385.3	396.0	424.0	541.3	909.3	1386.7	2416.0	3166.7	3234.7	3305.3	3254.7
80°	160.0	174.7	188.0	218.7	425.3	1094.7	1661.3	2013.3	2057.3	2098.7	2150.7
82.5°	77.3	82.7	101.3	116.0	154.7	449.3	1302.7	1745.3	1797.3	1857.3	1978.7
85°	36.0	40.0	56.0	66.7	74.7	113.3	436.0	849.3	921.3	934.7	958.7
87.5°	2.7	2.7	6.7	9.3	13.3	14.7	45.3	64.0	72.0	65.3	82.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P151090

CATALOG NUMBER: VWM-E04-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1354.7	1353.3	1350.7	1350.7	1349.3	1349.3	1349.3	1346.7	1346.7	1346.7	1345.3
5°	1390.7	1389.3	1385.3	1385.3	1382.7	1382.7	1378.7	1377.3	1374.7	1374.7	1373.3
7.5°	1437.3	1436.0	1430.7	1430.7	1426.7	1425.3	1422.7	1418.7	1418.7	1416.0	1413.3
10°	1501.3	1497.3	1496.0	1489.3	1490.7	1488.0	1485.3	1481.3	1478.7	1476.0	1473.3
12.5°	1573.3	1573.3	1566.7	1562.7	1565.3	1562.7	1557.3	1556.0	1552.0	1552.0	1548.0
15°	1641.3	1641.3	1638.7	1633.3	1634.7	1630.7	1629.3	1626.7	1621.3	1622.7	1621.3
17.5°	1700.0	1700.0	1696.0	1693.3	1693.3	1689.3	1690.7	1688.0	1685.3	1684.0	1680.0
20°	1746.7	1746.7	1744.0	1741.3	1742.7	1742.7	1738.7	1738.7	1738.7	1736.0	1736.0
22.5°	1792.0	1793.3	1793.3	1793.3	1794.7	1796.0	1794.7	1797.3	1796.0	1798.7	1798.7
25°	1852.0	1856.0	1858.7	1858.7	1865.3	1866.7	1868.0	1872.0	1872.0	1876.0	1877.3
27.5°	1941.3	1944.0	1954.7	1957.3	1958.7	1969.3	1970.7	1976.0	1981.3	1982.7	1984.0
30°	2064.0	2070.7	2078.7	2084.0	2084.0	2097.3	2102.7	2100.0	2114.7	2118.7	2124.0
32.5°	2228.0	2233.3	2241.3	2246.7	2252.0	2258.7	2260.0	2266.7	2278.7	2289.3	2282.7
35°	2434.7	2448.0	2434.7	2449.3	2453.3	2462.7	2460.0	2468.0	2473.3	2477.3	2476.0
37.5°	2734.7	2728.0	2725.3	2720.0	2710.7	2742.7	2726.7	2725.3	2717.3	2740.0	2725.3
40°	3129.3	3133.3	3137.3	3116.0	3104.0	3104.0	3100.0	3085.3	3078.7	3098.7	3096.0
42.5°	3541.3	3545.3	3526.7	3513.3	3482.7	3478.7	3460.0	3456.0	3449.3	3460.0	3449.3
45°	3916.0	3918.7	3877.3	3884.0	3860.0	3864.0	3834.7	3846.7	3830.7	3841.3	3861.3
47.5°	4334.7	4340.0	4304.0	4318.7	4294.7	4280.0	4278.7	4286.7	4269.3	4280.0	4285.3
50°	4714.7	4708.0	4689.3	4693.3	4682.7	4685.3	4669.3	4684.0	4664.0	4685.3	4682.7
52.5°	5052.0	5044.0	5040.0	5053.3	5044.0	5044.0	5034.7	5041.3	5044.0	5076.0	5082.7
55°	5461.3	5468.0	5474.7	5498.7	5509.3	5492.0	5509.3	5542.7	5544.0	5620.0	5661.3
57.5°	6118.7	6165.3	6189.3	6204.0	6266.7	6260.0	6300.0	6380.0	6388.0	6564.0	6666.7
60°	7265.3	7348.0	7426.7	7384.0	7510.7	7549.3	7573.3	7722.7	7769.3	7936.0	8025.3
62.5°	8713.3	8722.7	8845.3	8806.7	8878.7	8861.3	8890.7	8958.7	9020.0	9157.3	9241.3
65°	9724.0	9768.0	9816.0	9766.7	9765.3	9706.7	9669.3	9668.0	9705.3	9734.7	9828.0
67°	9998.7	10042.7	10054.7	10018.7	9966.7	9892.0	9822.7	9786.7	9762.7	9776.0	9834.7
67.5°	9996.0	10037.3	10052.0	10017.3	9945.3	9882.7	9809.3	9768.0	9736.0	9742.7	9792.0
70°	9428.0	9517.3	9565.3	9576.0	9566.7	9457.3	9394.7	9357.3	9330.7	9265.3	9261.3
72.5°	7988.0	8096.0	8133.3	8193.3	8220.0	8058.7	7990.7	8032.0	7938.7	7732.0	7741.3
75°	5865.3	5873.3	5748.0	5724.0	5634.7	5269.3	5160.0	5060.0	4900.0	4650.7	4416.0
77.5°	3057.3	3056.0	2912.0	2838.7	2732.0	2512.0	2501.3	2322.7	2197.3	1969.3	1886.7
80°	2172.0	2206.7	2254.7	2278.7	2241.3	2156.0	2038.7	1912.0	1766.7	1624.0	1453.3
82.5°	2020.0	2041.3	2066.7	1973.3	1921.3	1801.3	1712.0	1528.0	1425.3	1262.7	1090.7
85°	982.7	1048.0	997.3	938.7	918.7	718.7	694.7	580.0	526.7	433.3	404.0
87.5°	62.7	77.3	69.3	62.7	54.7	30.7	41.3	29.3	30.7	22.7	20.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P151090

CATALOG NUMBER: VWM-E04-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1345.3	1344.0	1342.7	1341.3	1340.0	1340.0	1338.7	1337.3	1336.0	1333.3	1333.3
5°	1370.7	1370.7	1369.3	1366.7	1366.7	1364.0	1360.0	1358.7	1358.7	1356.0	1353.3
7.5°	1412.0	1410.7	1408.0	1406.7	1404.0	1401.3	1398.7	1396.0	1394.7	1390.7	1389.3
10°	1474.7	1472.0	1465.3	1462.7	1461.3	1458.7	1456.0	1453.3	1449.3	1446.7	1445.3
12.5°	1545.3	1544.0	1538.7	1541.3	1534.7	1532.0	1529.3	1522.7	1525.3	1520.0	1517.3
15°	1616.0	1617.3	1614.7	1614.7	1609.3	1605.3	1602.7	1597.3	1596.0	1593.3	1590.7
17.5°	1678.7	1681.3	1677.3	1674.7	1672.0	1669.3	1664.0	1658.7	1658.7	1653.3	1650.7
20°	1736.0	1738.7	1737.3	1734.7	1730.7	1729.3	1726.7	1722.7	1722.7	1720.0	1716.0
22.5°	1801.3	1802.7	1802.7	1801.3	1797.3	1798.7	1796.0	1792.0	1793.3	1788.0	1788.0
25°	1880.0	1882.7	1885.3	1886.7	1884.0	1885.3	1882.7	1880.0	1878.7	1880.0	1878.7
27.5°	1988.0	1990.7	1998.7	1992.0	1998.7	2000.0	1996.0	1990.7	1994.7	2001.3	1997.3
30°	2130.7	2128.0	2138.7	2140.0	2138.7	2140.0	2137.3	2133.3	2136.0	2148.0	2141.3
32.5°	2290.7	2296.0	2298.7	2301.3	2305.3	2310.7	2306.7	2302.7	2309.3	2305.3	2314.7
35°	2484.0	2496.0	2500.0	2496.0	2498.7	2508.0	2506.7	2508.0	2521.3	2508.0	2525.3
37.5°	2728.0	2740.0	2749.3	2744.0	2750.7	2750.7	2761.3	2790.7	2772.0	2796.0	2814.7
40°	3082.7	3101.3	3102.7	3101.3	3108.0	3116.0	3126.7	3158.7	3137.3	3162.7	3180.0
42.5°	3448.0	3470.7	3478.7	3465.3	3480.0	3497.3	3498.7	3526.7	3528.0	3532.0	3541.3
45°	3860.0	3880.0	3896.0	3889.3	3890.7	3913.3	3908.0	3934.7	3914.7	3914.7	3920.0
47.5°	4298.7	4317.3	4328.0	4338.7	4325.3	4345.3	4354.7	4349.3	4325.3	4320.0	4288.0
50°	4698.7	4714.7	4730.7	4760.0	4758.7	4768.0	4774.7	4750.7	4745.3	4716.0	4680.0
52.5°	5122.7	5164.0	5200.0	5261.3	5270.7	5302.7	5290.7	5250.7	5244.0	5196.0	5148.0
55°	5713.3	5832.0	5884.0	5978.7	6042.7	6041.3	6014.7	6008.0	5957.3	5861.3	5804.0
57.5°	6741.3	6926.7	7016.0	7138.7	7158.7	7146.7	7112.0	7050.7	6962.7	6801.3	6697.3
60°	8225.3	8340.0	8444.0	8473.3	8488.0	8465.3	8344.0	8208.0	8036.0	7813.3	7628.0
62.5°	9346.7	9464.0	9541.3	9529.3	9437.3	9321.3	9144.0	8916.0	8674.7	8425.3	8148.0
65°	9917.3	9966.7	9954.7	9861.3	9704.0	9501.3	9242.7	8961.3	8677.3	8382.7	8094.7
67°	9886.7	9888.0	9806.7	9625.3	9424.0	9169.3	8853.3	8546.7	8213.3	7904.0	7561.3
67.5°	9832.0	9826.7	9713.3	9514.7	9297.3	9034.7	8706.7	8389.3	8044.0	7732.0	7377.3
70°	9213.3	9138.7	8882.7	8565.3	8262.7	7908.0	7564.0	7200.0	6810.7	6542.7	6134.7
72.5°	7570.7	7318.7	6877.3	6545.3	6221.3	5757.3	5542.7	5090.7	4817.3	4646.7	4338.7
75°	4384.0	4173.3	3832.0	3521.3	3364.0	3089.3	2958.7	2626.7	2557.3	2554.7	2448.0
77.5°	1673.3	1460.0	1240.0	998.7	849.3	674.7	594.7	532.0	484.0	517.3	469.3
80°	1254.7	1032.0	806.7	586.7	418.7	309.3	265.3	245.3	233.3	224.0	217.3
82.5°	934.7	737.3	572.0	373.3	261.3	197.3	170.7	160.0	154.7	145.3	137.3
85°	316.0	253.3	200.0	138.7	109.3	89.3	82.7	80.0	76.0	69.3	65.3
87.5°	17.3	16.0	17.3	13.3	16.0	13.3	14.7	14.7	14.7	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P151090

CATALOG NUMBER: VWM-E04-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1332.0	1332.0	1332.0	1329.3	1325.3	1317.3	1309.3	1302.7	1296.0	1292.0	1289.3
5°	1352.0	1349.3	1348.0	1346.7	1337.3	1321.3	1306.7	1293.3	1280.0	1269.3	1265.3
7.5°	1388.0	1382.7	1381.3	1377.3	1365.3	1341.3	1320.0	1298.7	1280.0	1265.3	1258.7
10°	1442.7	1442.7	1434.7	1429.3	1416.0	1384.0	1353.3	1325.3	1300.0	1284.0	1280.0
12.5°	1512.0	1512.0	1505.3	1501.3	1485.3	1444.0	1406.7	1373.3	1349.3	1333.3	1332.0
15°	1584.0	1582.7	1577.3	1572.0	1554.7	1510.7	1473.3	1444.0	1424.0	1405.3	1400.0
17.5°	1648.0	1648.0	1641.3	1636.0	1618.7	1581.3	1548.0	1526.7	1504.0	1465.3	1436.0
20°	1712.0	1713.3	1708.0	1702.7	1688.0	1656.0	1641.3	1620.0	1569.3	1485.3	1416.0
22.5°	1782.7	1788.0	1781.3	1776.0	1764.0	1750.7	1745.3	1694.7	1588.0	1453.3	1352.0
25°	1873.3	1882.7	1874.7	1872.0	1865.3	1869.3	1853.3	1736.0	1561.3	1384.0	1257.3
27.5°	1997.3	1997.3	1998.7	1998.7	1996.0	2010.7	1952.0	1737.3	1502.7	1294.7	1144.0
30°	2142.7	2150.7	2148.0	2148.0	2158.7	2168.0	2006.7	1708.0	1428.0	1184.0	1005.3
32.5°	2317.3	2324.0	2326.7	2314.7	2357.3	2309.3	2026.7	1654.7	1336.0	1046.7	840.0
35°	2528.0	2537.3	2544.0	2545.3	2573.3	2432.0	2016.0	1576.0	1204.0	874.7	658.7
37.5°	2802.7	2821.3	2836.0	2842.7	2844.0	2536.0	1986.7	1472.0	1032.0	682.7	490.7
40°	3168.0	3188.0	3184.0	3197.3	3121.3	2597.3	1920.0	1321.3	818.7	501.3	378.7
42.5°	3520.0	3522.7	3528.0	3516.0	3361.3	2629.3	1826.7	1137.3	613.3	374.7	324.0
45°	3913.3	3890.7	3865.3	3846.7	3582.7	2641.3	1698.7	913.3	433.3	314.7	300.0
47.5°	4282.7	4252.0	4200.0	4146.7	3780.0	2622.7	1534.7	684.0	329.3	288.0	284.0
50°	4645.3	4588.0	4514.7	4453.3	3969.3	2594.7	1353.3	493.3	288.0	274.7	270.7
52.5°	5094.7	4998.7	4902.7	4822.7	4216.0	2550.7	1162.7	374.7	270.7	264.0	258.7
55°	5710.7	5577.3	5422.7	5310.7	4550.7	2484.0	962.7	317.3	262.7	257.3	249.3
57.5°	6564.0	6364.0	6189.3	6006.7	5008.0	2416.0	790.7	294.7	261.3	253.3	242.7
60°	7436.0	7196.0	6973.3	6712.0	5474.7	2348.0	670.7	292.0	265.3	253.3	237.3
62.5°	7889.3	7641.3	7373.3	7108.0	5676.0	2188.0	588.0	296.0	274.7	257.3	237.3
65°	7785.3	7482.7	7210.7	6940.0	5442.7	1885.3	497.3	301.3	293.3	273.3	241.3
67°	7262.7	6946.7	6685.3	6426.7	4922.7	1578.7	426.7	306.7	313.3	292.0	249.3
67.5°	7078.7	6762.7	6505.3	6253.3	4769.3	1514.7	409.3	309.3	317.3	297.3	252.0
70°	5869.3	5637.3	5364.0	5169.3	3861.3	1121.3	336.0	314.7	341.3	328.0	264.0
72.5°	4224.0	4002.7	3797.3	3689.3	2844.0	784.0	282.7	309.3	356.0	345.3	269.3
75°	2245.3	2232.0	2157.3	2210.7	1760.0	512.0	249.3	289.3	340.0	316.0	250.7
77.5°	453.3	466.7	548.0	540.0	568.0	285.3	213.3	248.0	262.7	232.0	204.0
80°	210.7	206.7	202.7	205.3	201.3	182.7	173.3	194.7	182.7	149.3	136.0
82.5°	130.7	128.0	124.0	122.7	136.0	145.3	152.0	153.3	121.3	104.0	100.0
85°	62.7	62.7	61.3	64.0	80.0	118.7	128.0	113.3	81.3	74.7	70.7
87.5°	12.0	12.0	13.3	12.0	16.0	28.0	32.0	37.3	30.7	32.0	36.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P151090

CATALOG NUMBER: VWM-E04-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	1326.7	1326.7	1326.7
2.5°	1286.7	1284.0	1284.0
5°	1260.0	1258.7	1258.7
7.5°	1253.3	1254.7	1253.3
10°	1278.7	1277.3	1282.7
12.5°	1334.7	1338.7	1337.3
15°	1393.3	1396.0	1396.0
17.5°	1410.7	1401.3	1400.0
20°	1365.3	1348.0	1344.0
22.5°	1280.0	1248.0	1249.3
25°	1172.0	1133.3	1136.0
27.5°	1046.7	1005.3	1004.0
30°	896.0	850.7	828.0
32.5°	714.7	660.0	660.0
35°	537.3	493.3	477.3
37.5°	408.0	382.7	374.7
40°	340.0	328.0	325.3
42.5°	309.3	305.3	304.0
45°	293.3	290.7	289.3
47.5°	278.7	277.3	276.0
50°	268.0	266.7	265.3
52.5°	258.7	256.0	254.7
55°	245.3	245.3	245.3
57.5°	237.3	237.3	236.0
60°	229.3	228.0	228.0
62.5°	222.7	220.0	221.3
65°	218.7	214.7	214.7
67°	216.0	208.0	208.0
67.5°	216.0	205.3	205.3
70°	212.0	194.7	192.0
72.5°	208.0	182.7	178.7
75°	197.3	173.3	169.3
77.5°	169.3	154.7	152.0
80°	130.7	113.3	116.0
82.5°	94.7	81.3	80.0
85°	68.0	58.7	58.7
87.5°	36.0	30.7	32.0
90°	0.0	0.0	0.0

(END OF REPORT)