

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: P149953

Luminaire Tested: **VWM-F04-LED-E1-SL2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149953
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-F04-LED-E1-SL2-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8514.4 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

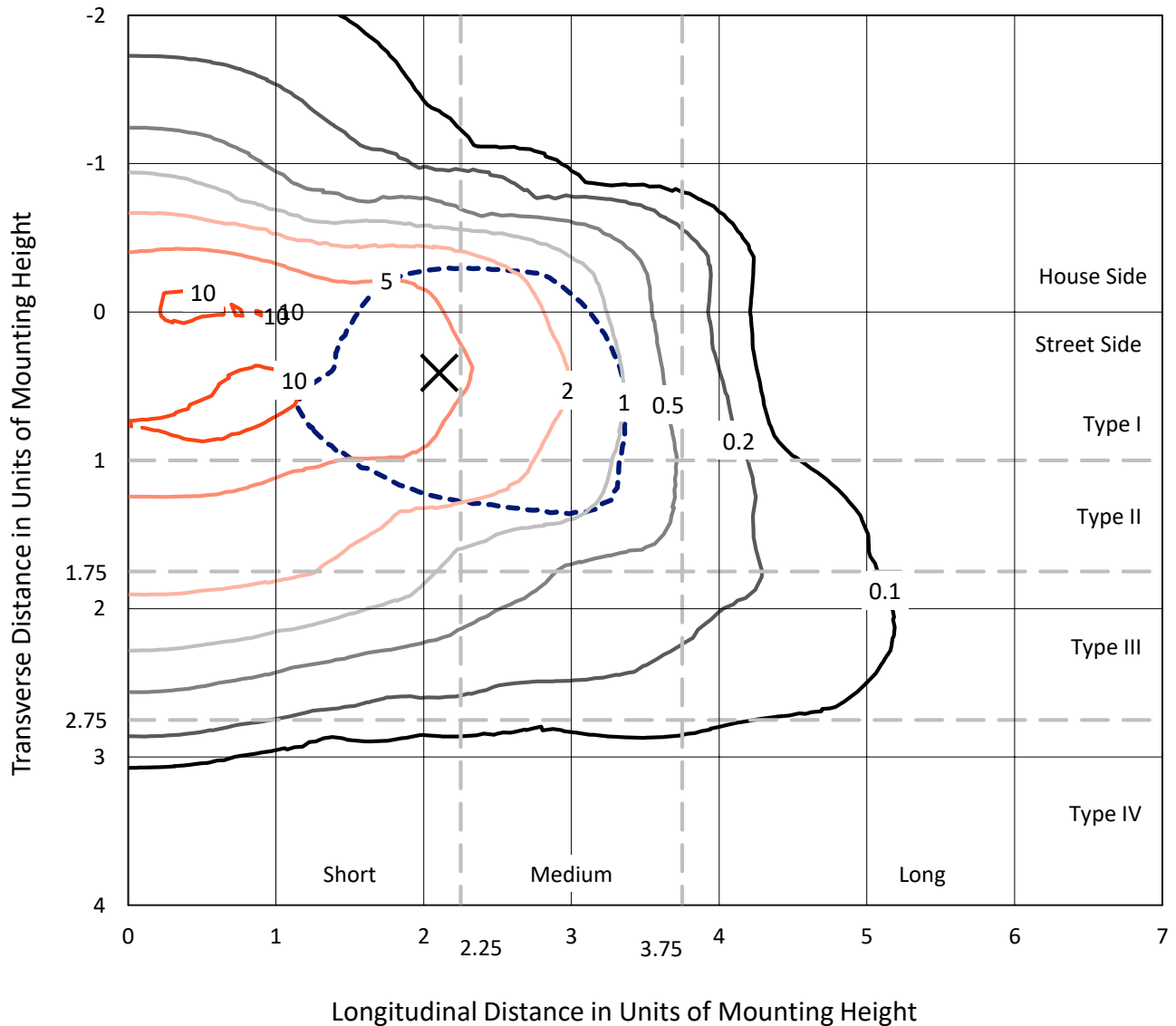
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

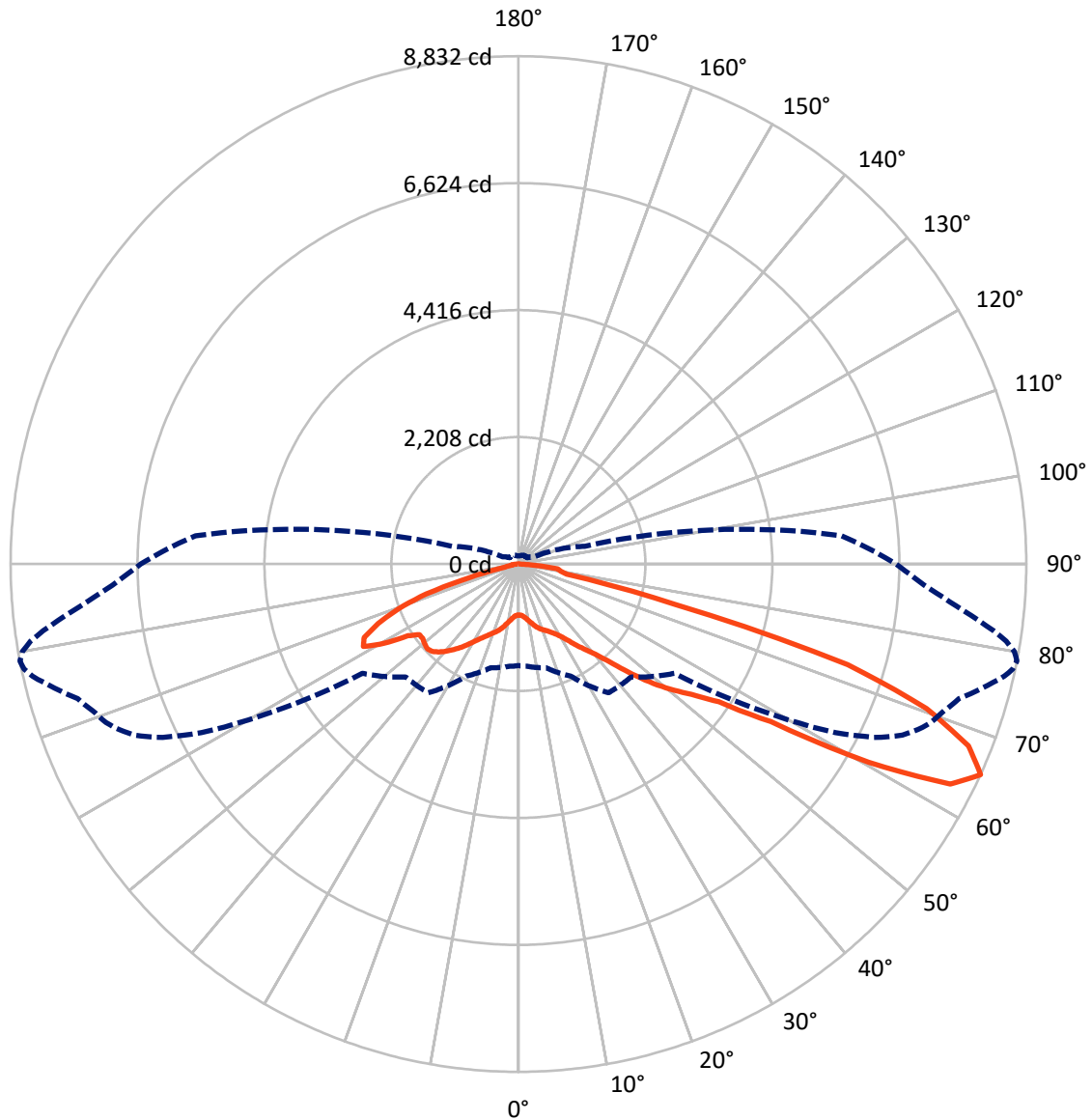
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - Non-Cutoff

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CATALOG NUMBER: VWM-F04-LED-E1-SL2-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2012.8	0.0	2012.8
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	6501.6	0.0	6501.6
	% Fixture	76.4	0.0	76.4
Total	Lumens	8514.4	0.0	8514.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	1.0
10°-20°	288.1	3.4
20°-30°	497.6	5.8
30°-40°	823.6	9.7
40°-50°	1396.8	16.4
50°-60°	1855.9	21.8
60°-70°	2397.4	28.2
70°-80°	1005.5	11.8
80°-90°	161.5	1.9
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°	8514.4	100.0
0°-180°	8514.4	100.0



REPORT NUMBER: P149953

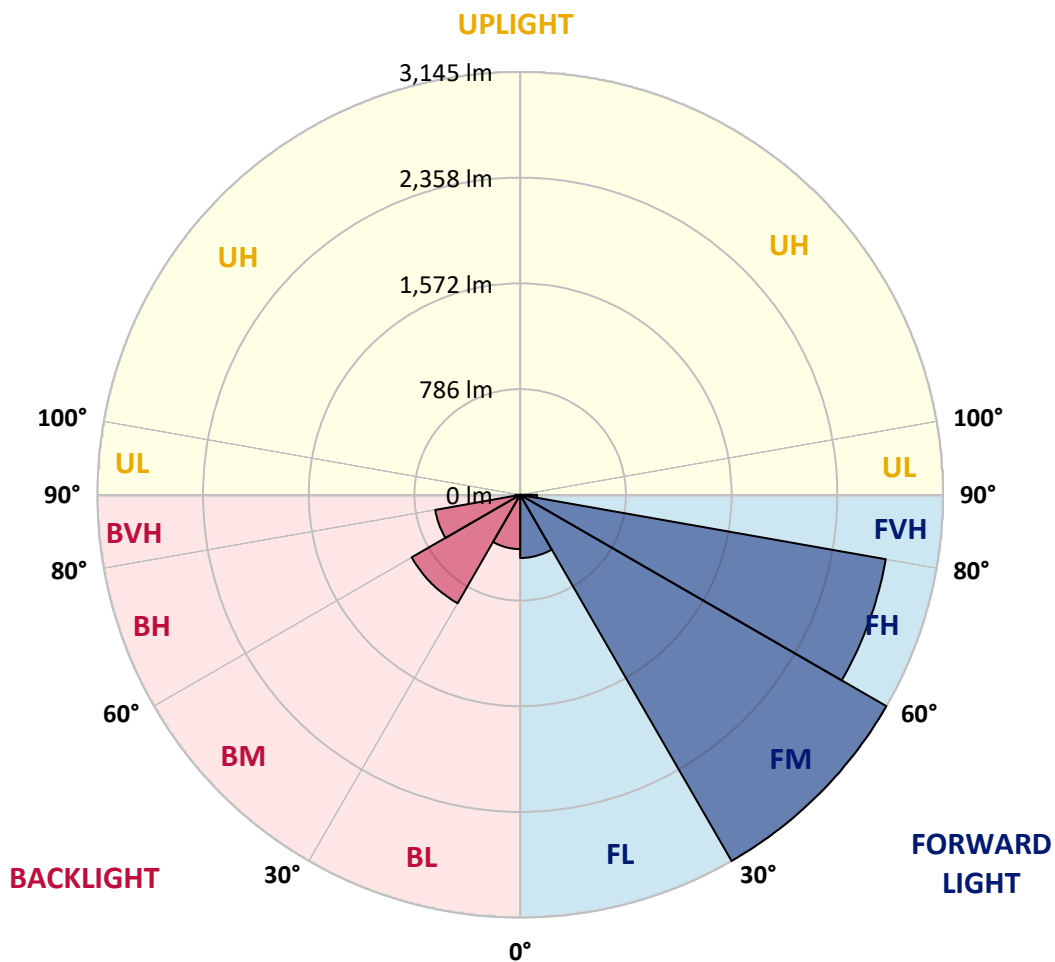
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	469.8	5.5			
FM	(30°-60°)	3144.6	36.9			
FH	(60°-80°)	2760.9	32.4			G2/5000
FVH	(80°-90°)	126.3	1.5			G2/225
BL	(0°-30°)	403.9	4.7	B1/500		
BM	(30°-60°)	931.7	10.9	B1/1000		
BH	(60°-80°)	641.9	7.5	B2/1000		G2/1000
BVH	(80°-90°)	35.2	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 II Short





REPORT NUMBER: P149953

CATALOG NUMBER: VWM-F04-LED-E1-SL2-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2
2.5°	883.5	886.2	884.4	886.2	888.1	889.0	890.9	890.0	890.0	890.9	889.0
5°	883.5	883.5	886.2	890.9	892.8	898.3	904.8	903.9	904.8	903.9	905.8
7.5°	902.0	901.1	903.9	909.5	911.3	919.7	930.8	932.7	934.6	934.6	937.3
10°	934.6	933.6	936.4	939.2	942.0	948.5	964.3	970.8	971.7	972.6	976.4
12.5°	975.4	974.5	970.8	970.8	969.9	981.9	1003.3	1015.4	1017.2	1020.9	1023.7
15°	1004.2	1001.4	995.9	992.2	996.8	1016.3	1047.9	1061.8	1063.7	1066.5	1073.9
17.5°	1032.1	1029.3	1017.2	1007.9	1014.4	1046.0	1088.8	1103.6	1107.3	1110.1	1118.5
20°	1071.1	1069.3	1051.6	1029.3	1027.5	1068.3	1120.4	1139.9	1142.6	1146.4	1154.7
22.5°	1130.6	1122.2	1101.8	1060.0	1039.5	1081.3	1142.6	1169.6	1173.3	1177.0	1188.2
25°	1204.9	1201.2	1165.9	1101.8	1059.0	1094.3	1166.8	1200.2	1205.8	1210.5	1225.3
27.5°	1282.0	1276.4	1238.3	1154.7	1093.4	1120.4	1204.9	1243.0	1250.4	1257.8	1271.8
30°	1350.7	1348.9	1317.3	1226.3	1149.1	1169.6	1266.2	1312.6	1321.0	1330.3	1343.3
32.5°	1512.4	1513.3	1480.8	1387.9	1283.9	1258.8	1354.5	1424.1	1427.8	1439.0	1462.2
35°	1821.7	1825.4	1813.4	1740.0	1622.9	1519.8	1529.1	1597.8	1601.6	1610.9	1633.1
37.5°	2028.9	2036.3	2073.5	2096.7	2037.3	1989.9	1871.9	1845.0	1847.7	1842.2	1837.5
40°	2143.2	2154.3	2251.8	2372.6	2437.6	2438.6	2387.5	2268.6	2223.1	2210.0	2154.3
42.5°	2208.2	2226.8	2365.2	2571.4	2758.1	2886.3	2917.9	2786.0	2752.6	2693.1	2586.3
45°	2250.9	2273.2	2436.7	2719.1	2994.1	3212.4	3376.8	3318.3	3296.0	3259.8	3161.3
47.5°	2243.5	2261.1	2431.1	2769.3	3117.7	3427.9	3719.6	3780.0	3753.1	3743.8	3676.9
50°	2107.9	2123.6	2296.4	2644.8	3049.8	3509.7	3937.0	4108.0	4108.0	4125.6	4105.2
52.5°	1962.9	1975.9	2132.9	2446.0	2830.6	3429.8	4057.8	4341.1	4378.3	4408.9	4457.2
55°	1908.1	1923.9	2042.8	2310.4	2643.9	3201.3	4098.7	4515.8	4584.5	4636.5	4746.2
57.5°	1934.1	1949.9	2034.5	2237.0	2534.3	2968.1	4100.5	4750.8	4883.7	4990.5	5212.5
60°	2046.5	2061.4	2132.0	2304.8	2505.5	2833.4	4021.6	5125.2	5337.0	5537.7	5907.4
62.5°	1994.5	2013.1	2116.2	2417.2	2720.1	2731.2	3736.4	5415.0	5756.0	6052.3	6640.4
65°	1766.9	1786.4	1867.3	2148.7	2733.1	2775.8	3313.7	5420.6	5844.2	6244.6	6879.1
67.5°	1341.4	1348.9	1413.0	1638.7	2185.9	2825.0	2878.9	4778.7	5181.9	5628.7	6283.6
70°	685.6	698.6	717.2	904.8	1407.4	2334.5	2473.9	3521.8	4035.5	4497.2	5284.0
72.5°	237.8	242.5	261.0	345.6	685.6	1531.9	2165.5	2413.5	2723.8	3155.7	4067.1
75°	143.1	143.1	149.6	174.6	313.1	798.0	1926.7	1971.3	2013.1	2158.0	2754.4
77.5°	113.3	115.2	115.2	119.8	173.7	409.7	1463.1	1832.9	1838.5	1852.4	1952.7
80°	80.8	84.5	92.0	95.7	112.4	224.8	821.2	1609.0	1718.6	1771.6	1845.0
82.5°	60.4	64.1	78.0	82.7	87.3	125.4	368.8	1110.1	1309.9	1415.8	1674.0
85°	26.9	31.6	53.0	58.5	61.3	66.9	172.8	315.9	363.2	407.8	537.9
87.5°	4.6	4.6	8.4	12.1	17.7	16.7	38.1	53.9	54.8	64.1	71.5
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: P149953

CATALOG NUMBER: VWM-F04-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2
2.5°	889.0	889.0	889.0	888.1	889.0	889.0	889.0	889.0	890.0	890.0	890.0
5°	908.5	906.7	907.6	907.6	907.6	906.7	908.5	907.6	908.5	911.3	910.4
7.5°	937.3	939.2	940.1	941.1	941.1	941.1	942.0	943.8	943.8	946.6	945.7
10°	980.1	979.1	980.1	982.9	985.6	986.6	989.4	988.4	990.3	994.0	997.7
12.5°	1025.6	1027.5	1030.2	1033.0	1037.7	1038.6	1041.4	1042.3	1047.9	1047.9	1051.6
15°	1076.7	1077.6	1083.2	1084.1	1089.7	1091.6	1096.2	1098.1	1104.6	1105.5	1109.2
17.5°	1123.1	1125.0	1127.8	1130.6	1137.1	1139.9	1143.6	1147.3	1152.9	1154.7	1161.2
20°	1160.3	1164.0	1164.9	1170.5	1176.1	1179.8	1183.5	1187.2	1192.8	1195.6	1202.1
22.5°	1193.7	1197.5	1200.2	1204.9	1208.6	1214.2	1216.0	1222.5	1228.1	1232.8	1238.3
25°	1230.0	1235.5	1238.3	1246.7	1249.5	1255.1	1259.7	1266.2	1273.6	1279.2	1286.6
27.5°	1281.1	1289.4	1293.1	1302.4	1308.9	1311.7	1319.2	1328.4	1334.9	1341.4	1348.9
30°	1351.7	1367.5	1370.2	1376.7	1388.8	1390.7	1400.0	1407.4	1417.6	1424.1	1430.6
32.5°	1461.3	1480.8	1482.7	1490.1	1500.3	1504.0	1511.5	1519.8	1535.6	1538.4	1548.6
35°	1629.4	1637.8	1645.2	1648.0	1656.4	1661.0	1666.6	1675.9	1691.7	1689.8	1701.0
37.5°	1831.0	1833.8	1834.7	1825.4	1827.3	1818.9	1829.2	1831.0	1836.6	1841.2	1852.4
40°	2119.0	2090.2	2086.5	2064.2	2041.9	2029.8	2025.2	2006.6	2011.2	2013.1	2022.4
42.5°	2539.8	2484.1	2437.6	2406.1	2351.3	2324.3	2288.1	2259.3	2237.0	2245.3	2249.1
45°	3073.1	2993.2	2918.9	2822.2	2750.7	2699.6	2635.5	2577.9	2551.9	2539.8	2554.7
47.5°	3605.4	3534.8	3447.4	3348.0	3234.7	3150.2	3043.3	2949.5	2884.5	2860.3	2873.3
50°	4065.2	4000.2	3934.2	3875.7	3743.8	3651.8	3506.0	3384.3	3282.1	3230.1	3216.1
52.5°	4447.0	4412.7	4377.4	4328.1	4222.2	4130.2	4014.1	3894.3	3758.7	3652.8	3616.5
55°	4788.0	4808.4	4790.8	4791.7	4749.9	4691.4	4592.9	4503.7	4408.9	4289.1	4238.9
57.5°	5285.0	5405.7	5429.9	5490.3	5520.0	5551.6	5579.5	5526.5	5502.4	5413.2	5414.1
60°	6068.1	6244.6	6397.9	6537.2	6651.5	6763.0	6880.0	6932.1	6989.7	7016.6	7108.6
62.5°	6901.4	7069.5	7298.1	7484.8	7589.8	7734.7	7862.0	7944.6	8045.9	8153.7	8293.9
65°	7107.6	7310.1	7454.1	7578.6	7682.7	7759.8	7829.4	7927.9	8012.5	8183.4	8348.7
67.5°	6579.0	6740.7	6872.6	6995.2	7076.0	7141.1	7203.3	7268.3	7413.3	7568.4	7734.7
70°	5647.3	5842.4	6060.7	6219.5	6259.5	6315.2	6374.7	6459.2	6531.7	6694.2	6820.6
72.5°	4537.1	4817.7	5002.6	5222.7	5270.1	5354.6	5388.1	5454.0	5467.1	5555.3	5588.7
75°	3162.3	3483.7	3669.5	3831.1	3862.7	3816.3	3834.8	3601.7	3542.2	3493.9	3454.9
77.5°	2087.4	2173.8	2203.5	2177.5	2053.0	1955.5	1851.5	1749.3	1760.4	1677.7	1532.8
80°	1856.1	1875.6	1848.7	1822.7	1751.1	1648.9	1555.1	1459.4	1412.1	1361.9	1287.6
82.5°	1805.9	1881.2	1889.5	1858.0	1801.3	1689.8	1576.5	1434.3	1313.6	1202.1	1088.8
85°	603.8	734.8	793.3	848.2	864.9	884.4	817.5	726.5	616.8	543.5	425.5
87.5°	77.1	95.7	110.5	94.8	110.5	130.1	93.8	105.0	105.9	66.0	49.2
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: P149953

CATALOG NUMBER: VWM-F04-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2
2.5°	890.9	890.0	890.0	890.0	889.0	890.0	890.0	890.0	890.0	890.0	889.0
5°	911.3	911.3	914.1	915.0	913.2	912.3	913.2	914.1	914.1	913.2	914.1
7.5°	949.4	950.3	952.2	955.0	953.1	954.1	955.0	954.1	956.9	957.8	956.9
10°	997.7	999.6	1004.2	1005.2	1004.2	1007.9	1008.9	1007.0	1008.9	1008.9	1012.6
12.5°	1053.5	1055.3	1060.9	1062.8	1064.6	1065.5	1068.3	1069.3	1072.0	1073.9	1076.7
15°	1113.8	1115.7	1119.4	1125.9	1127.8	1129.6	1131.5	1137.1	1138.0	1141.7	1144.5
17.5°	1164.9	1167.7	1173.3	1177.9	1180.7	1185.4	1187.2	1193.7	1195.6	1201.2	1205.8
20°	1205.8	1210.5	1215.1	1220.7	1225.3	1230.9	1232.8	1239.3	1243.0	1245.8	1251.3
22.5°	1243.0	1248.6	1255.1	1261.6	1265.3	1272.7	1275.5	1278.3	1286.6	1290.4	1295.9
25°	1291.3	1296.9	1304.3	1312.6	1316.4	1325.7	1328.4	1333.1	1342.4	1346.1	1354.5
27.5°	1357.2	1364.7	1370.2	1378.6	1383.3	1389.8	1396.3	1401.8	1410.2	1415.8	1425.1
30°	1439.9	1445.5	1454.8	1461.3	1468.7	1478.0	1485.4	1491.0	1495.7	1504.0	1514.2
32.5°	1561.6	1562.5	1565.3	1581.1	1588.6	1596.0	1606.2	1610.9	1618.3	1626.6	1637.8
35°	1713.0	1721.4	1727.9	1735.3	1743.7	1752.1	1755.8	1769.7	1776.2	1787.4	1798.5
37.5°	1863.5	1864.5	1879.3	1884.0	1891.4	1899.8	1912.8	1926.7	1943.4	1954.6	1972.2
40°	2025.2	2032.6	2051.2	2060.5	2069.8	2090.2	2100.4	2122.7	2150.6	2166.4	2196.1
42.5°	2259.3	2270.4	2303.9	2318.7	2341.0	2374.5	2395.8	2426.5	2437.6	2475.7	2489.7
45°	2565.8	2600.2	2648.5	2680.1	2720.1	2756.3	2774.9	2788.8	2805.5	2835.2	2831.5
47.5°	2897.5	2942.1	2996.0	3061.0	3087.0	3129.7	3153.9	3180.8	3166.0	3158.5	3151.1
50°	3237.5	3289.5	3361.1	3419.6	3459.5	3485.5	3506.0	3502.3	3470.7	3454.0	3407.5
52.5°	3615.6	3646.2	3714.1	3764.2	3788.4	3794.0	3789.3	3761.4	3731.7	3678.8	3624.0
55°	4195.3	4181.3	4208.3	4231.5	4224.1	4250.1	4183.2	4157.2	4083.8	4015.1	3941.7
57.5°	5373.2	5391.8	5241.3	5173.5	5161.4	5185.6	5067.6	5052.7	4875.3	4853.0	4729.4
60°	7095.6	7186.6	7068.6	7002.7	6824.3	6765.8	6633.9	6579.0	6409.0	6271.5	6097.8
62.5°	8390.6	8473.2	8522.5	8428.6	8324.6	8171.3	7971.6	7750.5	7570.3	7359.4	7175.4
65°	8507.6	8674.8	8788.2	8831.8	8758.4	8590.3	8344.1	8065.4	7789.5	7524.7	7292.5
67.5°	7960.4	8110.0	8285.6	8442.6	8451.9	8342.2	8132.3	7849.0	7530.3	7203.3	6931.1
70°	7020.3	7208.0	7361.2	7526.6	7641.8	7578.6	7473.6	7213.5	6882.8	6628.3	6315.2
72.5°	5709.5	5788.5	5825.6	5988.2	5990.1	5874.9	5800.6	5656.6	5389.9	5209.7	4971.0
75°	3334.1	3160.4	2975.5	2814.8	2683.8	2629.0	2385.6	2344.7	2181.2	2080.0	1931.4
77.5°	1374.9	1219.8	1020.0	853.7	689.3	615.0	507.2	459.8	398.5	371.6	353.9
80°	1178.9	1032.1	881.6	737.6	609.4	481.2	374.4	290.8	228.5	194.2	180.2
82.5°	962.4	874.2	769.2	691.2	590.8	495.1	418.0	324.2	242.5	178.4	136.6
85°	347.4	285.2	229.5	210.9	168.1	138.4	116.1	99.4	81.8	65.0	57.6
87.5°	39.0	37.2	21.4	20.4	23.2	16.7	19.5	17.7	14.9	13.0	13.9
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: P149953

CATALOG NUMBER: VWM-F04-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2
2.5°	889.0	889.0	890.0	890.0	890.9	891.8	893.7	892.8	892.8	893.7	893.7
5°	914.1	916.9	916.0	916.0	916.0	916.9	917.8	914.1	910.4	906.7	904.8
7.5°	957.8	959.6	961.5	959.6	961.5	960.6	958.7	948.5	936.4	921.5	911.3
10°	1014.4	1014.4	1016.3	1015.4	1019.1	1016.3	1010.7	987.5	961.5	929.9	906.7
12.5°	1075.8	1082.3	1079.5	1080.4	1087.8	1080.4	1067.4	1033.0	986.6	935.5	894.6
15°	1148.2	1151.0	1152.9	1150.1	1154.7	1148.2	1125.0	1070.2	1002.4	930.8	870.5
17.5°	1207.7	1208.6	1209.5	1211.4	1217.9	1210.5	1170.5	1096.2	1006.1	909.5	829.6
20°	1254.1	1258.8	1262.5	1262.5	1271.8	1260.6	1207.7	1109.2	994.0	874.2	777.6
22.5°	1302.4	1306.1	1310.8	1311.7	1323.8	1312.6	1238.3	1106.4	962.4	824.0	717.2
25°	1361.9	1365.6	1369.3	1374.0	1390.7	1374.9	1269.0	1095.3	918.8	764.6	652.1
27.5°	1430.6	1439.0	1441.8	1449.2	1468.7	1444.6	1295.0	1078.5	870.5	695.8	583.4
30°	1522.6	1532.8	1536.5	1546.8	1573.7	1520.7	1309.9	1049.7	809.1	626.1	510.0
32.5°	1646.2	1660.1	1671.2	1682.4	1713.0	1596.9	1311.7	1007.9	737.6	548.1	439.4
35°	1807.8	1829.2	1837.5	1845.0	1873.8	1679.6	1303.4	945.7	650.3	468.2	383.7
37.5°	1988.9	2010.3	2015.9	2019.6	2025.2	1750.2	1282.9	850.9	551.8	398.5	339.1
40°	2211.9	2230.5	2237.9	2232.3	2202.6	1805.0	1237.4	740.4	456.1	351.2	311.2
42.5°	2484.1	2512.0	2514.8	2489.7	2391.2	1835.7	1146.4	610.3	380.9	316.8	289.8
45°	2821.3	2819.5	2803.7	2786.0	2596.5	1823.6	1019.1	497.0	333.5	289.8	270.3
47.5°	3124.2	3092.6	3068.4	3016.4	2777.7	1753.0	854.7	411.5	304.7	269.4	253.6
50°	3372.2	3314.6	3263.5	3206.8	2912.4	1627.6	691.2	349.3	277.8	251.8	237.8
52.5°	3568.2	3498.5	3439.1	3383.3	3042.4	1488.2	566.7	303.8	251.8	234.1	220.2
55°	3874.8	3805.1	3710.3	3649.0	3241.2	1360.0	485.9	267.5	226.7	215.5	201.6
57.5°	4650.5	4589.2	4475.8	4317.0	3752.2	1311.7	440.3	239.7	206.2	199.7	188.6
60°	6004.9	5905.5	5757.8	5596.2	4790.8	1344.2	404.1	220.2	192.3	186.7	178.4
62.5°	7026.8	6852.2	6684.9	6535.4	5621.3	1343.3	356.7	205.3	182.1	179.3	170.9
65°	7068.6	6891.2	6723.0	6566.0	5639.8	1195.6	301.0	192.3	180.2	179.3	165.4
67.5°	6693.3	6501.0	6338.4	6140.6	5220.9	934.6	241.5	183.9	187.7	185.8	163.5
70°	6080.2	5829.4	5695.6	5500.5	4594.7	654.0	198.8	186.7	203.4	197.9	166.3
72.5°	4772.2	4582.7	4379.2	4243.6	3597.0	413.4	167.2	188.6	209.9	200.7	173.7
75°	1776.2	1827.3	1743.7	1714.0	1827.3	242.5	148.6	175.6	187.7	173.7	157.9
77.5°	358.6	342.8	325.1	321.4	415.3	149.6	136.6	152.4	144.0	127.3	128.2
80°	171.9	167.2	161.6	160.7	154.2	124.5	126.3	130.1	108.7	98.5	105.0
82.5°	114.3	107.8	105.9	102.2	104.0	111.5	119.8	111.5	83.6	78.0	94.8
85°	53.0	51.1	50.2	50.2	55.7	100.3	99.4	81.8	57.6	55.7	94.8
87.5°	13.0	13.0	13.9	13.0	14.9	29.7	26.0	25.1	21.4	24.2	44.6
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: P149953

CATALOG NUMBER: VWM-F04-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	886.2	886.2	886.2
2.5°	892.8	893.7	892.8
5°	901.1	901.1	901.1
7.5°	901.1	898.3	897.4
10°	888.1	879.7	879.7
12.5°	865.8	851.9	850.0
15°	824.0	805.4	802.6
17.5°	771.1	746.0	741.3
20°	711.6	680.0	674.4
22.5°	646.6	610.3	607.6
25°	582.5	545.3	537.9
27.5°	510.9	474.7	471.0
30°	439.4	407.8	406.0
32.5°	379.0	359.5	355.8
35°	336.3	325.1	320.5
37.5°	308.4	300.1	299.1
40°	287.1	279.6	278.7
42.5°	269.4	262.9	262.0
45°	251.8	246.2	244.3
47.5°	234.1	228.5	227.6
50°	218.3	210.9	209.9
52.5°	203.4	196.0	194.2
55°	189.5	182.1	182.1
57.5°	177.4	170.0	169.1
60°	166.3	158.9	157.9
62.5°	157.9	148.6	147.7
65°	151.4	142.1	140.3
67.5°	147.7	136.6	133.8
70°	154.2	133.8	129.1
72.5°	155.1	131.0	124.5
75°	149.6	123.6	118.9
77.5°	131.0	110.5	105.9
80°	113.3	85.5	79.0
82.5°	107.8	69.7	60.4
85°	83.6	45.5	42.7
87.5°	47.4	25.1	20.4
90°	0.0	0.0	0.0

(END OF REPORT)