

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: P149390

Luminaire Tested: **VWM-E05-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149390
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-E05-LED-E1-SL2-HSS
Description: VISION WALL MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9167.9 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

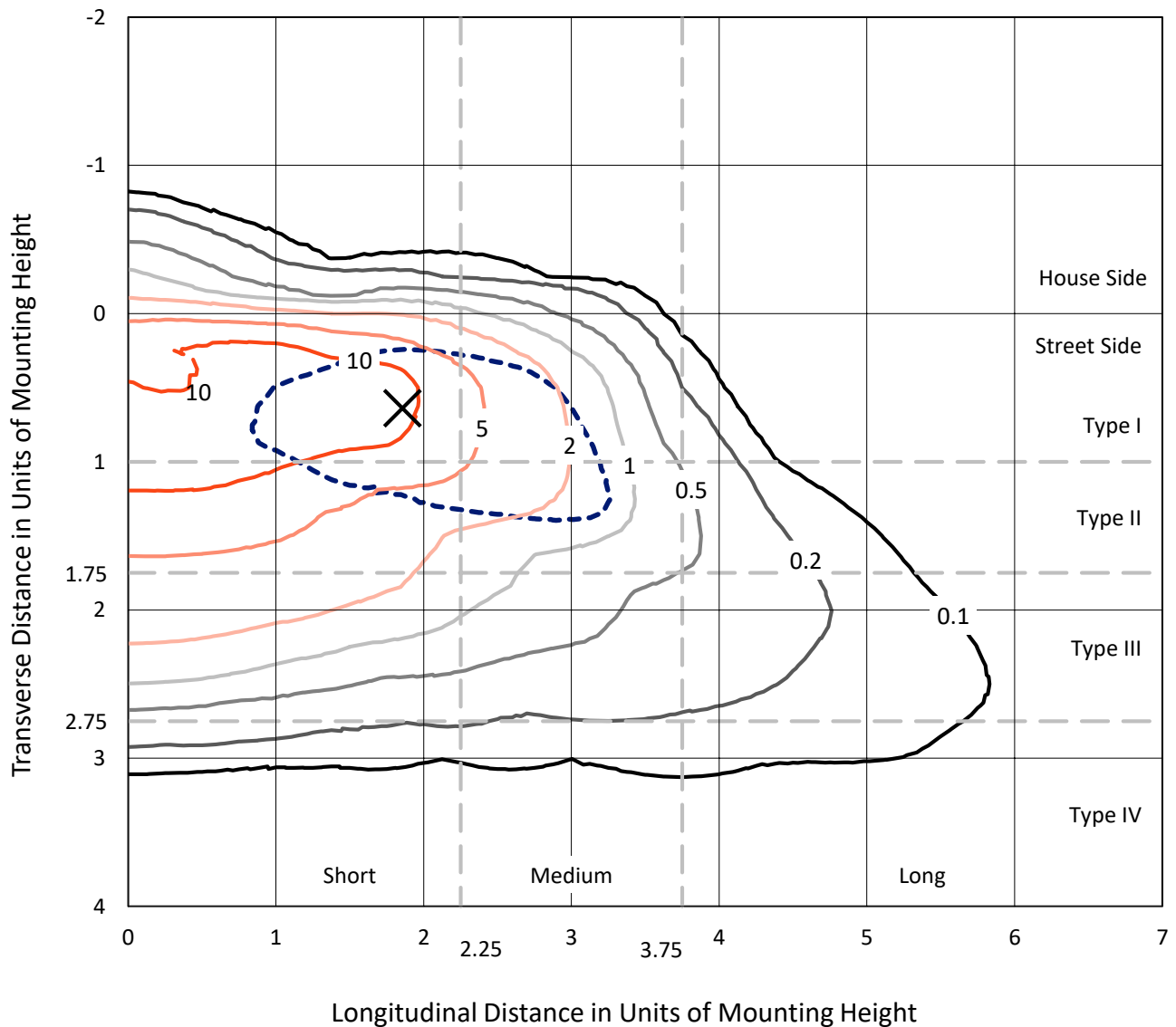
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P149390
 CATALOG NUMBER: VWM-E05-LED-E1-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

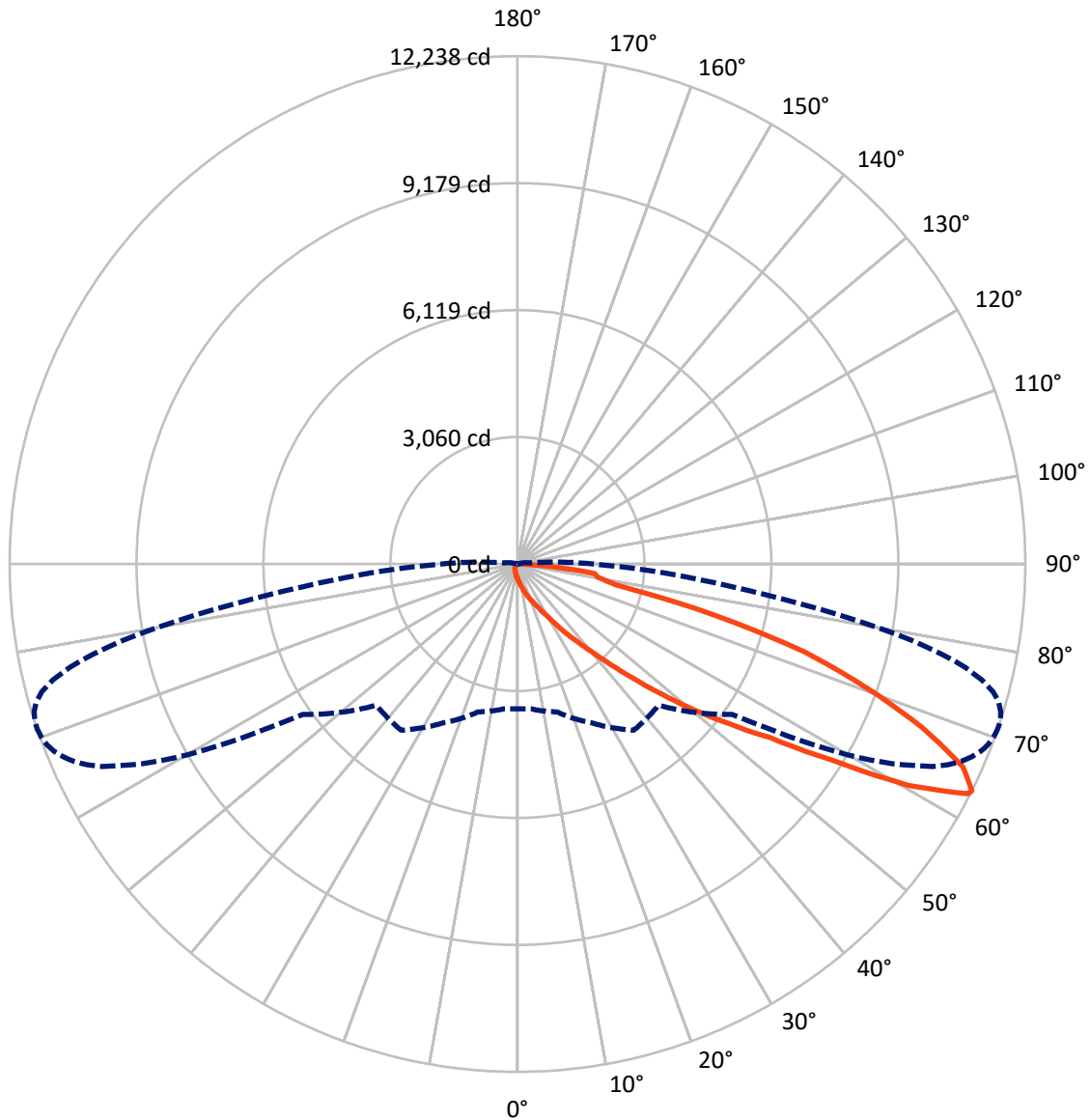
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.3 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P149390
CATALOG NUMBER: VWM-E05-LED-E1-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P149390

CATALOG NUMBER: VWM-E05-LED-E1-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	194.7	0.0	194.7
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8973.2	0.0	8973.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	9167.9	0.0	9167.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	0.4
10°-20°	150.7	1.6
20°-30°	306.2	3.3
30°-40°	748.1	8.2
40°-50°	1673.0	18.2
50°-60°	2352.4	25.7
60°-70°	2766.2	30.2
70°-80°	998.9	10.9
80°-90°	133.6	1.5
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°	9167.9	100.0
0°-180°	9167.9	100.0



REPORT NUMBER: P149390

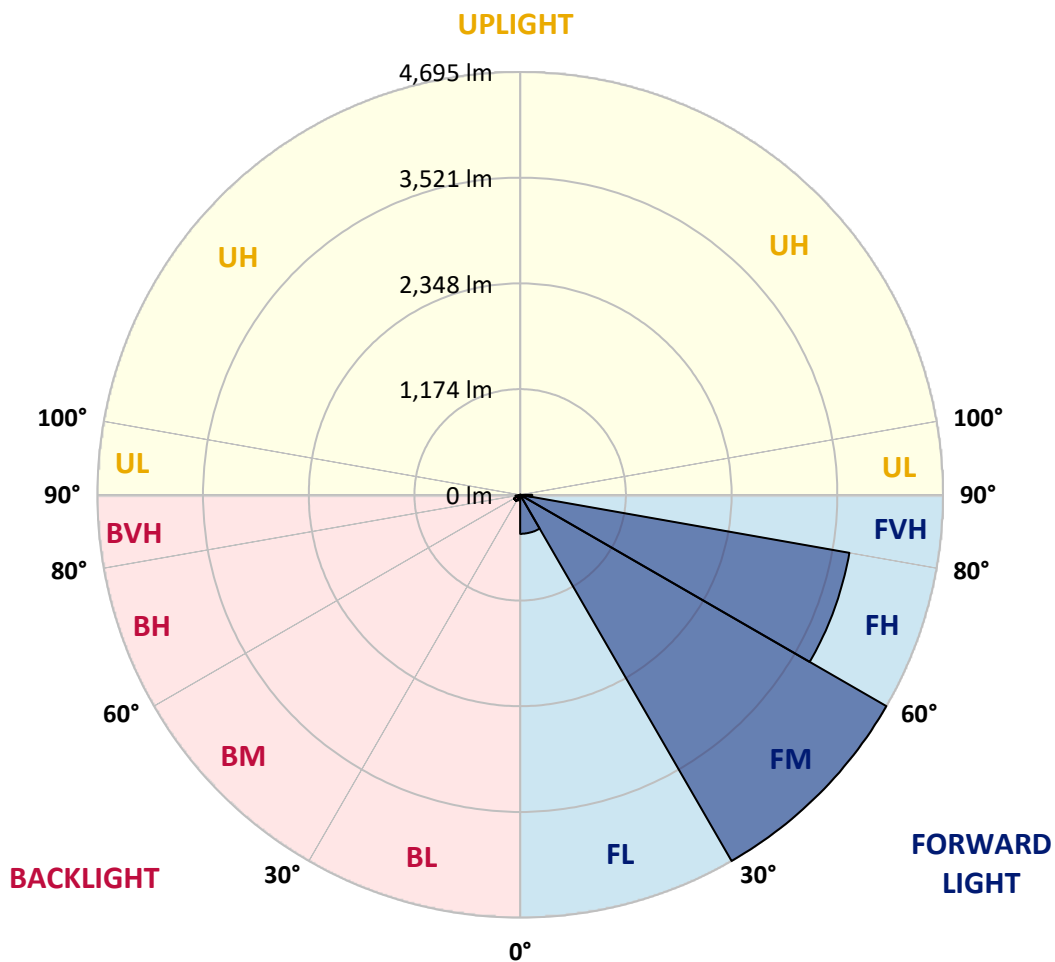
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	433.2	4.7			
FM (30°-60°)	4695.0	51.2			
FH (60°-80°)	3711.7	40.5			G2/5000
FVH (80°-90°)	133.3	1.5			G2/225
BL (0°-30°)	62.6	0.7	B0/110		
BM (30°-60°)	78.4	0.9	B0/220		
BH (60°-80°)	53.4	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





REPORT NUMBER: P149390

CATALOG NUMBER: VWM-E05-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7
2.5°	460.0	465.0	461.7	453.3	443.3	430.0	418.3	418.3	416.7	411.7	413.3
5°	603.3	605.0	598.3	578.3	560.0	531.7	500.0	496.7	493.3	488.3	486.7
7.5°	743.3	750.0	743.3	721.7	685.0	641.7	591.7	586.7	576.7	576.7	570.0
10°	886.7	886.7	880.0	855.0	821.7	760.0	696.7	688.3	676.7	673.3	663.3
12.5°	988.3	988.3	985.0	971.7	945.0	890.0	813.3	805.0	790.0	785.0	773.3
15°	1028.3	1028.3	1030.0	1041.7	1043.3	1018.3	938.3	931.7	916.7	903.3	898.3
17.5°	1053.3	1051.7	1051.7	1068.3	1098.3	1115.0	1063.3	1056.7	1040.0	1033.3	1016.7
20°	1108.3	1105.0	1095.0	1095.0	1123.3	1181.7	1181.7	1180.0	1161.7	1156.7	1148.3
22.5°	1190.0	1186.7	1156.7	1131.7	1145.0	1218.3	1286.7	1283.3	1276.7	1270.0	1265.0
25°	1323.3	1311.7	1260.0	1186.7	1175.0	1253.3	1366.7	1375.0	1380.0	1380.0	1383.3
27.5°	1525.0	1510.0	1418.3	1281.7	1230.0	1310.0	1455.0	1471.7	1486.7	1490.0	1505.0
30°	1805.0	1778.3	1646.7	1446.7	1328.3	1393.3	1585.0	1603.3	1625.0	1631.7	1655.0
32.5°	2265.0	2250.0	2123.3	1823.3	1570.0	1556.7	1766.7	1790.0	1818.3	1830.0	1858.3
35°	2965.0	2968.3	2865.0	2595.0	2245.0	2061.7	2091.7	2111.7	2121.7	2156.7	2171.7
37.5°	3440.0	3448.3	3471.7	3365.0	3115.0	2928.3	2693.3	2715.0	2663.3	2668.3	2670.0
40°	3700.0	3726.7	3863.3	3966.7	3946.7	3838.3	3650.0	3661.7	3565.0	3543.3	3438.3
42.5°	3873.3	3908.3	4126.7	4446.7	4610.0	4708.3	4665.0	4660.0	4585.0	4556.7	4468.3
45°	3981.7	4013.3	4288.3	4760.0	5136.7	5423.3	5541.7	5555.0	5491.7	5463.3	5390.0
47.5°	3976.7	4013.3	4308.3	4876.7	5431.7	5890.0	6223.3	6240.0	6278.3	6253.3	6258.3
50°	3756.7	3791.7	4088.3	4678.3	5345.0	6103.3	6713.3	6766.7	6828.3	6870.0	6890.0
52.5°	3490.0	3515.0	3778.3	4338.3	4975.0	6015.0	7003.3	7095.0	7186.7	7265.0	7320.0
55°	3391.7	3420.0	3626.7	4091.7	4678.3	5645.0	7138.3	7273.3	7403.3	7531.7	7636.7
57.5°	3443.3	3470.0	3618.3	3975.0	4501.7	5255.0	7176.7	7386.7	7600.0	7808.3	8015.0
60°	3633.3	3661.7	3788.3	4083.3	4455.0	5030.0	7026.7	7375.0	7730.0	8093.3	8435.0
62.5°	3558.3	3570.0	3756.7	4273.3	4788.3	4838.3	6481.7	6968.3	7510.0	8070.0	8621.7
63°	3486.7	3500.0	3690.0	4221.7	4890.0	4810.0	6313.3	6826.7	7398.3	8001.7	8601.7
65°	3161.7	3163.3	3308.3	3728.3	4776.7	4860.0	5563.3	6053.3	6710.0	7433.3	8191.7
67.5°	2360.0	2348.3	2488.3	2808.3	3750.0	4861.7	4775.0	5050.0	5506.7	6148.3	6828.3
70°	836.7	818.3	1045.0	1488.3	2336.7	3976.7	4103.3	4121.7	4248.3	4595.0	5021.7
72.5°	271.7	276.7	333.3	545.0	1076.7	2676.7	3715.0	3658.3	3625.0	3623.3	3680.0
75°	108.3	110.0	133.3	241.7	483.3	1290.0	3253.3	3285.0	3296.7	3313.3	3331.7
77.5°	51.7	56.7	75.0	135.0	240.0	638.3	2328.3	2596.7	2750.0	2868.3	2940.0
80°	18.3	21.7	41.7	83.3	111.7	293.3	1226.7	1480.0	1705.0	1995.0	2245.0
82.5°	0.0	0.0	8.3	58.3	61.7	118.3	503.3	590.0	675.0	875.0	1123.3
85°	0.0	0.0	0.0	16.7	18.3	20.0	170.0	205.0	230.0	268.3	310.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.0	10.0	25.0	38.3
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: P149390

CATALOG NUMBER: VWM-E05-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7
2.5°	410.0	408.3	408.3	405.0	403.3	400.0	398.3	393.3	391.7	391.7	391.7
5°	485.0	478.3	475.0	466.7	461.7	460.0	451.7	448.3	443.3	445.0	436.7
7.5°	568.3	556.7	551.7	540.0	536.7	525.0	521.7	513.3	508.3	498.3	495.0
10°	660.0	645.0	636.7	618.3	613.3	605.0	595.0	585.0	576.7	566.7	561.7
12.5°	765.0	751.7	745.0	720.0	708.3	696.7	683.3	670.0	656.7	648.3	636.7
15°	888.3	866.7	860.0	836.7	816.7	801.7	783.3	766.7	756.7	740.0	728.3
17.5°	1010.0	988.3	983.3	948.3	926.7	916.7	896.7	875.0	856.7	840.0	821.7
20°	1131.7	1116.7	1103.3	1070.0	1046.7	1030.0	1003.3	981.7	966.7	943.3	920.0
22.5°	1253.3	1238.3	1228.3	1193.3	1171.7	1148.3	1125.0	1101.7	1080.0	1051.7	1025.0
25°	1378.3	1368.3	1363.3	1331.7	1311.7	1290.0	1266.7	1240.0	1213.3	1181.7	1153.3
27.5°	1508.3	1511.7	1501.7	1495.0	1473.3	1458.3	1421.7	1403.3	1383.3	1345.0	1310.0
30°	1673.3	1683.3	1680.0	1685.0	1671.7	1661.7	1633.3	1610.0	1586.7	1550.0	1510.0
32.5°	1881.7	1895.0	1901.7	1920.0	1913.3	1910.0	1901.7	1868.3	1851.7	1788.3	1771.7
35°	2203.3	2196.7	2225.0	2240.0	2233.3	2230.0	2220.0	2201.7	2181.7	2136.7	2095.0
37.5°	2621.7	2628.3	2638.3	2608.3	2588.3	2586.7	2556.7	2538.3	2510.0	2460.0	2410.0
40°	3388.3	3346.7	3300.0	3173.3	3118.3	3086.7	2998.3	2973.3	2925.0	2856.7	2805.0
42.5°	4385.0	4343.3	4203.3	3991.7	3878.3	3721.7	3650.0	3561.7	3493.3	3381.7	3321.7
45°	5375.0	5255.0	5238.3	4991.7	4851.7	4645.0	4516.7	4368.3	4213.3	4066.7	3960.0
47.5°	6210.0	6183.3	6101.7	5951.7	5821.7	5648.3	5483.3	5255.0	5095.0	4886.7	4695.0
50°	6878.3	6876.7	6846.7	6760.0	6651.7	6511.7	6366.7	6173.3	5991.7	5736.7	5531.7
52.5°	7378.3	7405.0	7415.0	7388.3	7346.7	7223.3	7150.0	6988.3	6835.0	6618.3	6396.7
55°	7745.0	7843.3	7893.3	7950.0	7938.3	7895.0	7891.7	7786.7	7716.7	7545.0	7388.3
57.5°	8198.3	8360.0	8515.0	8790.0	8800.0	8896.7	8946.7	8996.7	9010.0	8941.7	8890.0
60°	8775.0	9105.0	9398.3	9973.3	10123.3	10360.0	10513.3	10680.0	10821.7	10833.3	10830.0
62.5°	9181.7	9690.0	10163.3	11016.7	11308.3	11581.7	11786.7	11948.3	12046.7	12146.7	12193.3
63°	9193.3	9750.0	10253.3	11133.3	11440.0	11700.0	11895.0	12045.0	12148.3	12208.3	12238.3
65°	8911.7	9586.7	10186.7	11063.3	11351.7	11613.3	11715.0	11813.3	11863.3	11886.7	11798.3
67.5°	7553.3	8213.3	8913.3	9893.3	10140.0	10453.3	10536.7	10586.7	10610.0	10605.0	10530.0
70°	5648.3	6201.7	6980.0	8100.0	8426.7	8733.3	8923.3	9005.0	9031.7	9023.3	8911.7
72.5°	3943.3	4268.3	4910.0	6156.7	6601.7	6995.0	7230.0	7351.7	7376.7	7326.7	7223.3
75°	3311.7	3328.3	3473.3	4155.0	4571.7	4991.7	5256.7	5333.3	5283.3	5131.7	4868.3
77.5°	2956.7	2993.3	2993.3	3095.0	3176.7	3293.3	3318.3	3131.7	2915.0	2635.0	2408.3
80°	2480.0	2608.3	2698.3	2773.3	2781.7	2758.3	2696.7	2591.7	2425.0	2211.7	1975.0
82.5°	1506.7	1760.0	1863.3	2250.0	2440.0	2568.3	2558.3	2418.3	2291.7	2070.0	1868.3
85°	380.0	410.0	445.0	578.3	648.3	791.7	881.7	923.3	938.3	861.7	780.0
87.5°	36.7	25.0	41.7	31.7	45.0	33.3	45.0	41.7	51.7	55.0	60.0
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: P149390

CATALOG NUMBER: VWM-E05-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7
2.5°	388.3	386.7	385.0	383.3	381.7	380.0	376.7	376.7	373.3	371.7	370.0
5°	431.7	428.3	426.7	423.3	418.3	415.0	410.0	403.3	398.3	396.7	393.3
7.5°	486.7	478.3	475.0	470.0	463.3	453.3	446.7	441.7	433.3	428.3	418.3
10°	548.3	540.0	530.0	520.0	510.0	498.3	490.0	483.3	470.0	463.3	451.7
12.5°	626.7	611.7	600.0	586.7	573.3	560.0	550.0	530.0	518.3	503.3	493.3
15°	706.7	693.3	680.0	663.3	643.3	621.7	611.7	593.3	578.3	555.0	541.7
17.5°	803.3	778.3	758.3	738.3	720.0	700.0	680.0	651.7	630.0	610.0	583.3
20°	898.3	868.3	846.7	820.0	793.3	761.7	738.3	718.3	688.3	661.7	633.3
22.5°	1000.0	970.0	935.0	908.3	871.7	846.7	815.0	781.7	751.7	716.7	681.7
25°	1123.3	1091.7	1051.7	1016.7	975.0	940.0	901.7	863.3	826.7	786.7	741.7
27.5°	1275.0	1241.7	1198.3	1156.7	1101.7	1058.3	1021.7	970.0	923.3	873.3	821.7
30°	1466.7	1430.0	1376.7	1316.7	1261.7	1213.3	1161.7	1093.3	1041.7	981.7	915.0
32.5°	1716.7	1673.3	1601.7	1545.0	1476.7	1413.3	1341.7	1273.3	1200.0	1121.7	1045.0
35°	2031.7	1991.7	1908.3	1825.0	1750.0	1675.0	1585.0	1506.7	1403.3	1308.3	1210.0
37.5°	2358.3	2286.7	2210.0	2120.0	2026.7	1936.7	1826.7	1718.3	1600.0	1496.7	1373.3
40°	2731.7	2645.0	2581.7	2485.0	2353.3	2225.0	2123.3	1988.3	1840.0	1701.7	1556.7
42.5°	3243.3	3146.7	3033.3	2886.7	2791.7	2641.7	2510.0	2350.0	2155.0	2000.0	1825.0
45°	3835.0	3703.3	3593.3	3451.7	3336.7	3150.0	2996.7	2783.3	2588.3	2385.0	2171.7
47.5°	4510.0	4346.7	4186.7	4046.7	3863.3	3680.0	3485.0	3258.3	3008.3	2785.0	2531.7
50°	5285.0	5053.3	4831.7	4651.7	4400.0	4188.3	3976.7	3721.7	3445.0	3188.3	2900.0
52.5°	6146.7	5878.3	5585.0	5308.3	5016.7	4745.0	4490.0	4196.7	3888.3	3575.0	3253.3
55°	7186.7	6985.0	6640.0	6288.3	5898.3	5535.0	5206.7	4843.3	4468.3	4056.7	3718.3
57.5°	8815.0	8716.7	8428.3	8076.7	7568.3	7126.7	6570.0	6125.0	5581.7	5015.0	4578.3
60°	11021.7	10900.0	10738.3	10453.3	10050.0	9450.0	8836.7	8145.0	7318.3	6533.3	5788.3
62.5°	12198.3	12155.0	12023.3	11826.7	11450.0	10976.7	10358.3	9598.3	8665.0	7711.7	6761.7
63°	12233.3	12178.3	12065.0	11865.0	11533.3	11075.0	10468.3	9730.0	8816.7	7845.0	6875.0
65°	11760.0	11738.3	11623.3	11405.0	11178.3	10828.3	10358.3	9723.3	8956.7	8038.3	7073.3
67.5°	10430.0	10365.0	10188.3	10121.7	9963.3	9720.0	9361.7	8925.0	8376.7	7655.0	6821.7
70°	8821.7	8725.0	8503.3	8385.0	8191.7	8038.3	7820.0	7508.3	7170.0	6666.7	6045.0
72.5°	7116.7	6916.7	6713.3	6405.0	6135.0	5861.7	5620.0	5400.0	5028.3	4825.0	4353.3
75°	4621.7	4258.3	3910.0	3443.3	3023.3	2651.7	2290.0	2106.7	1725.0	1570.0	1348.3
77.5°	2193.3	1990.0	1716.7	1505.0	1235.0	1008.3	823.3	618.3	485.0	380.0	290.0
80°	1770.0	1598.3	1433.3	1241.7	1038.3	828.3	635.0	475.0	336.7	233.3	165.0
82.5°	1578.3	1391.7	1188.3	1056.7	918.3	751.7	616.7	503.3	371.7	271.7	185.0
85°	613.3	516.7	398.3	325.0	253.3	208.3	188.3	130.0	101.7	80.0	61.7
87.5°	53.3	43.3	35.0	23.3	25.0	13.3	15.0	10.0	8.3	8.3	6.7
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: P149390

CATALOG NUMBER: VWM-E05-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7	351.7
2.5°	368.3	366.7	365.0	361.7	361.7	358.3	356.7	355.0	346.7	328.3	313.3
5°	386.7	383.3	380.0	375.0	371.7	366.7	363.3	358.3	340.0	305.0	275.0
7.5°	413.3	406.7	401.7	391.7	386.7	380.0	375.0	366.7	336.7	283.3	241.7
10°	445.0	433.3	425.0	413.3	403.3	395.0	386.7	375.0	333.3	260.0	211.7
12.5°	483.3	470.0	453.3	440.0	426.7	415.0	403.3	388.3	328.3	240.0	188.3
15°	521.7	501.7	490.0	471.7	453.3	436.7	420.0	406.7	330.0	218.3	168.3
17.5°	565.0	545.0	520.0	500.0	480.0	458.3	438.3	411.7	321.7	201.7	153.3
20°	606.7	578.3	555.0	530.0	501.7	475.0	450.0	426.7	315.0	185.0	140.0
22.5°	651.7	618.3	588.3	556.7	521.7	491.7	461.7	431.7	303.3	170.0	128.3
25°	706.7	668.3	625.0	586.7	550.0	513.3	475.0	438.3	291.7	156.7	120.0
27.5°	773.3	723.3	680.0	631.7	580.0	533.3	491.7	451.7	280.0	146.7	111.7
30°	858.3	800.0	738.3	676.7	621.7	568.3	510.0	460.0	268.3	136.7	103.3
32.5°	971.7	898.3	823.3	751.7	678.3	610.0	548.3	483.3	261.7	128.3	95.0
35°	1121.7	1026.7	935.0	845.0	756.7	673.3	593.3	520.0	261.7	118.3	85.0
37.5°	1263.3	1153.3	1036.7	925.0	820.0	723.3	628.3	540.0	248.3	110.0	76.7
40°	1416.7	1285.0	1148.3	1016.7	890.0	770.0	661.7	560.0	236.7	100.0	68.3
42.5°	1651.7	1485.0	1306.7	1153.3	1001.7	853.3	718.3	598.3	221.7	90.0	60.0
45°	1960.0	1748.3	1538.3	1351.7	1158.3	976.7	816.7	668.3	218.3	81.7	51.7
47.5°	2290.0	2040.0	1793.3	1555.0	1328.3	1116.7	925.0	746.7	218.3	73.3	45.0
50°	2618.3	2305.0	2041.7	1765.0	1510.0	1260.0	1031.7	828.3	220.0	66.7	36.7
52.5°	2915.0	2580.0	2285.0	1965.0	1683.3	1393.3	1145.0	908.3	216.7	58.3	30.0
55°	3326.7	2933.3	2591.7	2238.3	1908.3	1581.7	1300.0	1028.3	218.3	51.7	25.0
57.5°	4085.0	3623.3	3211.7	2748.3	2368.3	1946.7	1605.0	1275.0	238.3	43.3	18.3
60°	5173.3	4573.3	3995.0	3430.0	2946.7	2445.0	2001.7	1613.3	280.0	35.0	13.3
62.5°	5905.0	5120.0	4430.0	3806.7	3245.0	2720.0	2236.7	1795.0	308.3	28.3	8.3
63°	5980.0	5168.3	4475.0	3831.7	3258.3	2733.3	2246.7	1808.3	310.0	26.7	8.3
65°	6121.7	5251.7	4500.0	3836.7	3245.0	2715.0	2240.0	1806.7	313.3	21.7	6.7
67.5°	5960.0	5123.3	4355.0	3693.3	3128.3	2606.7	2156.7	1740.0	311.7	15.0	5.0
70°	5330.0	4636.7	3961.7	3345.0	2831.7	2360.0	1963.3	1586.7	286.7	10.0	3.3
72.5°	3913.3	3441.7	2918.3	2473.3	2133.3	1771.7	1511.7	1191.7	221.7	6.7	1.7
75°	1160.0	1056.7	888.3	783.3	691.7	571.7	508.3	396.7	113.3	3.3	0.0
77.5°	231.7	210.0	188.3	171.7	161.7	138.3	131.7	108.3	46.7	1.7	0.0
80°	121.7	100.0	85.0	75.0	65.0	53.3	45.0	36.7	8.3	0.0	0.0
82.5°	116.7	78.3	56.7	46.7	40.0	31.7	25.0	18.3	5.0	0.0	0.0
85°	43.3	33.3	25.0	20.0	16.7	15.0	11.7	10.0	0.0	0.0	0.0
87.5°	6.7	5.0	5.0	3.3	3.3	1.7	1.7	1.7	0.0	0.0	0.0
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: P149390

CATALOG NUMBER: VWM-E05-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	351.7	351.7	351.7	351.7	351.7	351.7	351.7
2.5°	298.3	285.0	278.3	270.0	270.0	268.3	271.7
5°	248.3	230.0	216.7	206.7	208.3	203.3	205.0
7.5°	210.0	191.7	180.0	173.3	171.7	170.0	170.0
10°	181.7	165.0	155.0	150.0	148.3	148.3	148.3
12.5°	161.7	145.0	136.7	133.3	133.3	131.7	131.7
15°	145.0	131.7	123.3	120.0	120.0	118.3	120.0
17.5°	131.7	118.3	111.7	108.3	108.3	106.7	106.7
20°	120.0	108.3	101.7	96.7	96.7	95.0	96.7
22.5°	110.0	98.3	90.0	86.7	85.0	83.3	85.0
25°	100.0	88.3	80.0	75.0	73.3	73.3	71.7
27.5°	91.7	80.0	70.0	65.0	63.3	63.3	61.7
30°	83.3	70.0	60.0	55.0	53.3	53.3	53.3
32.5°	75.0	60.0	51.7	46.7	45.0	45.0	45.0
35°	66.7	51.7	43.3	38.3	36.7	36.7	36.7
37.5°	56.7	43.3	33.3	30.0	28.3	26.7	26.7
40°	48.3	33.3	25.0	21.7	18.3	18.3	18.3
42.5°	40.0	26.7	18.3	13.3	11.7	10.0	11.7
45°	33.3	20.0	11.7	6.7	5.0	5.0	5.0
47.5°	26.7	13.3	5.0	1.7	1.7	1.7	1.7
50°	20.0	8.3	1.7	0.0	0.0	1.7	1.7
52.5°	15.0	5.0	0.0	0.0	0.0	0.0	0.0
55°	8.3	1.7	0.0	0.0	0.0	0.0	0.0
57.5°	5.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)