

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: P152780

Luminaire Tested: **VWM-E02-LED-E1-SLL**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P152780
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-E02-LED-E1-SLL
Description: VISION WALL MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5564.9 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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

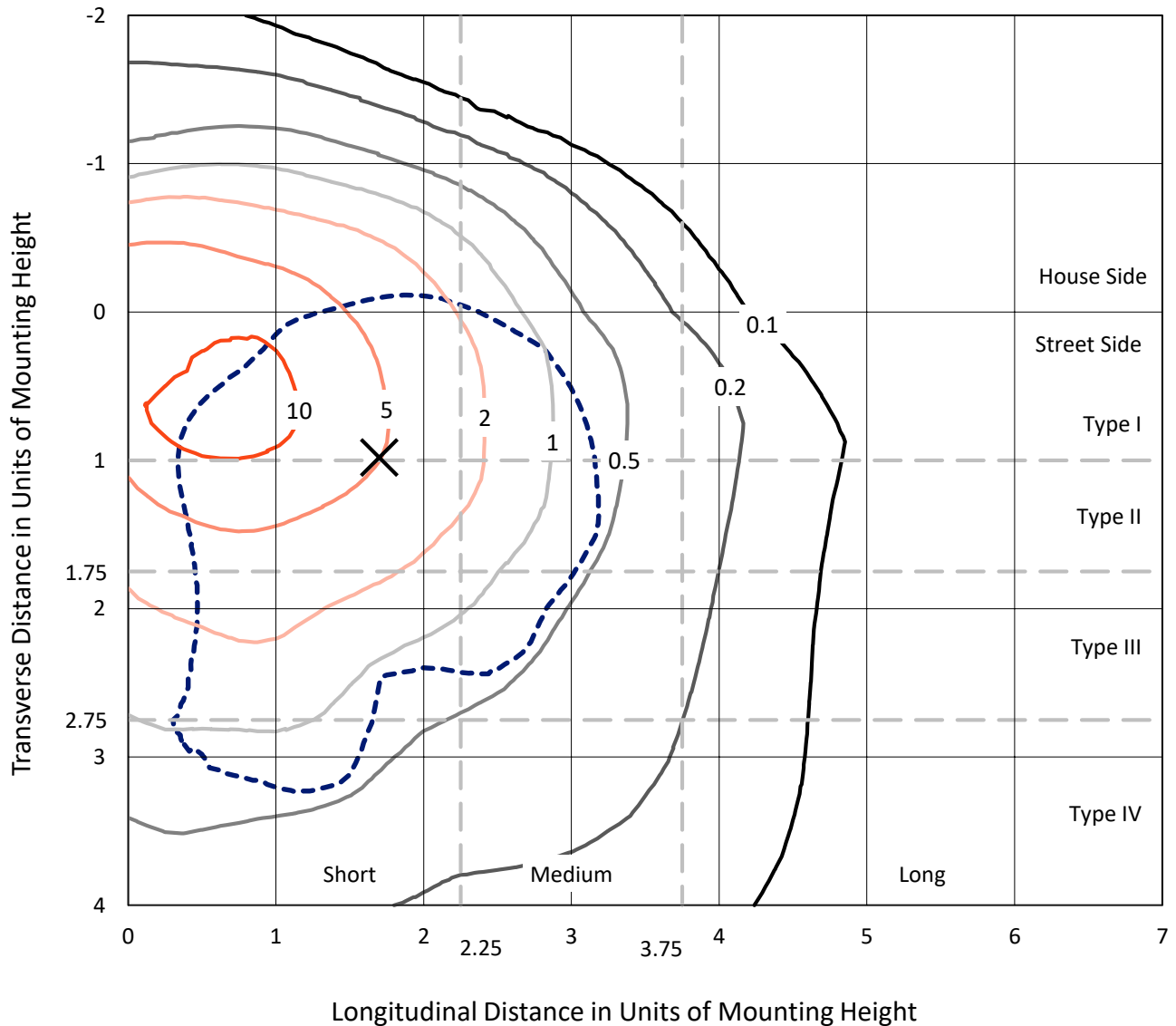


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

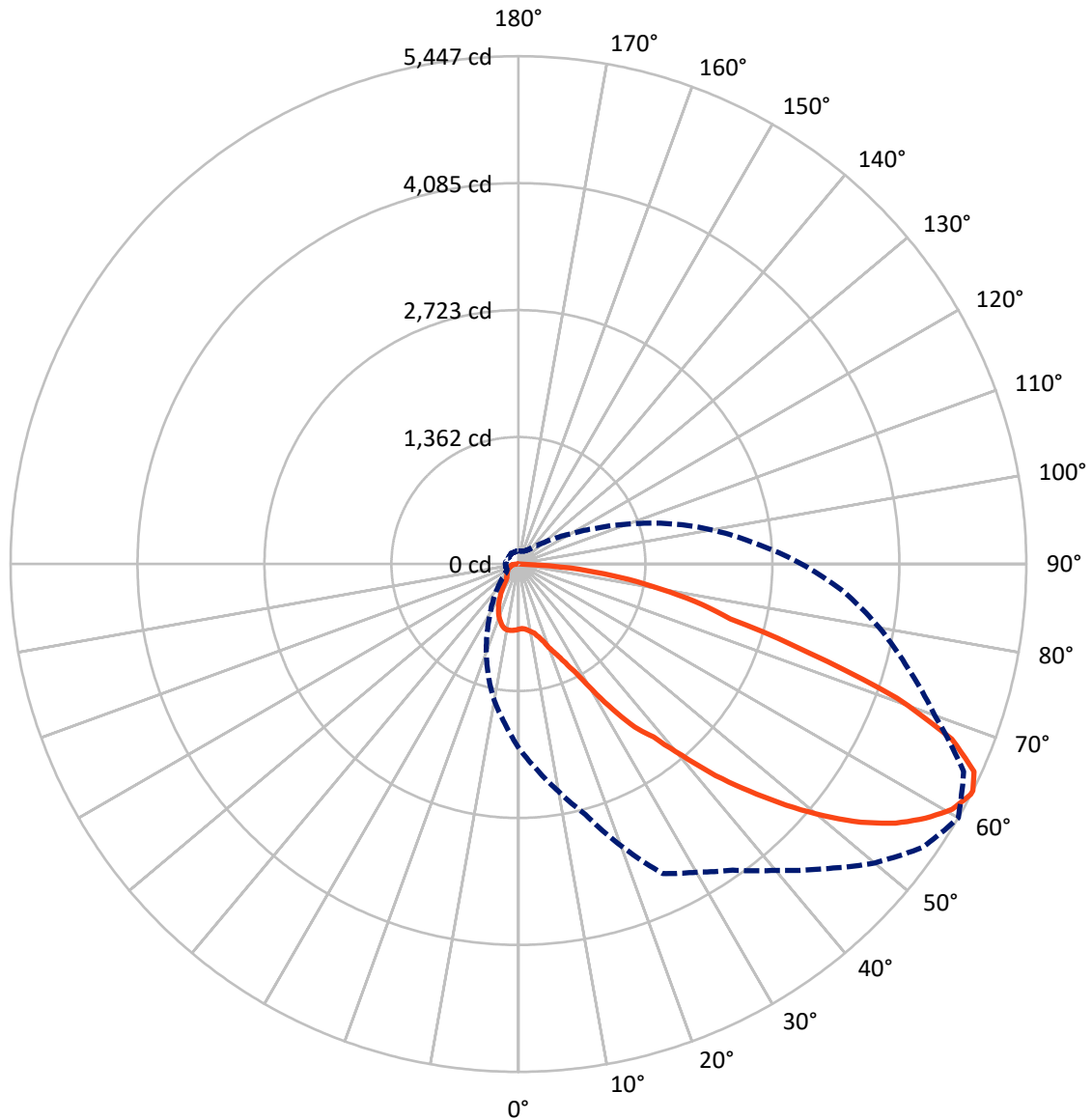


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1206.7	0.0	1206.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4358.2	0.0	4358.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	5564.9	0.0	5564.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	1.2
10°-20°	212.0	3.8
20°-30°	376.7	6.8
30°-40°	593.1	10.7
40°-50°	872.9	15.7
50°-60°	1159.5	20.8
60°-70°	1277.2	23.0
70°-80°	801.3	14.4
80°-90°	204.1	3.7
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°-90°	5564.9	100.0
0°-180°	5564.9	100.0

Coefficient of Utilization



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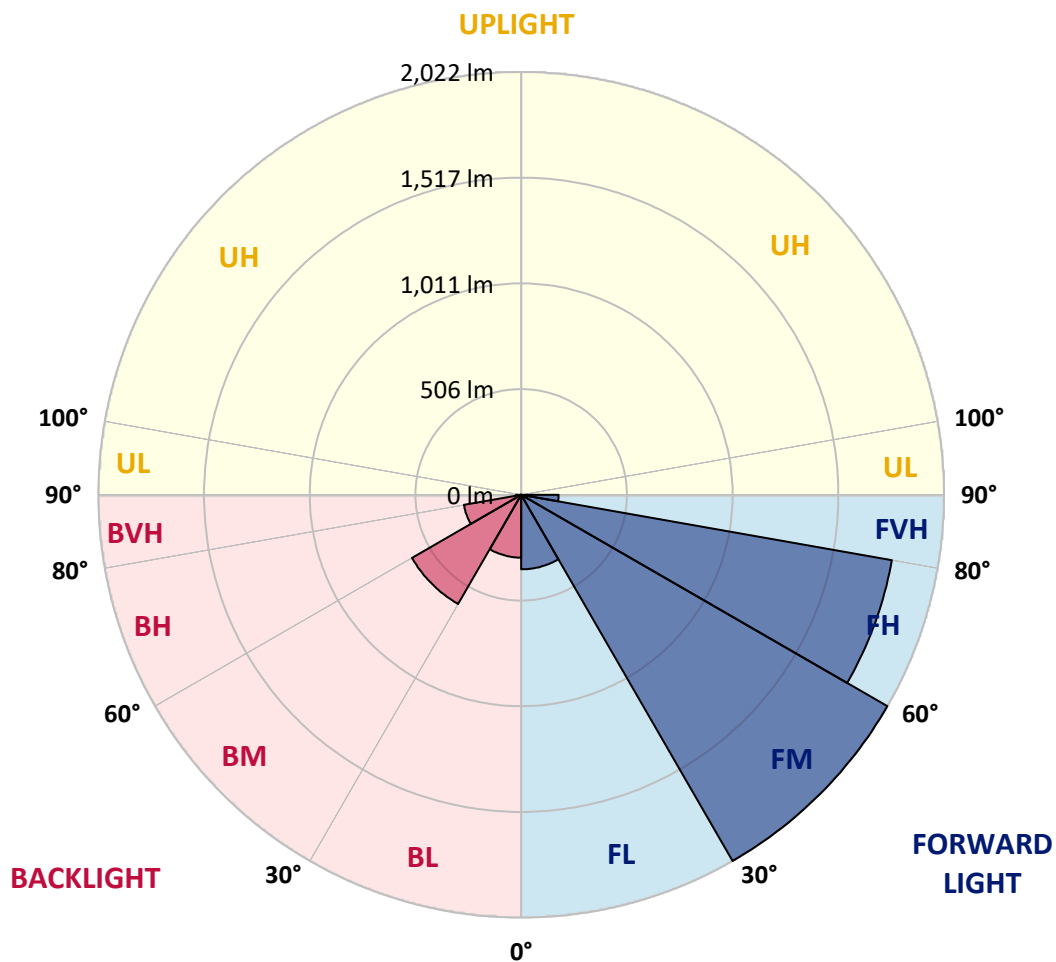
CATALOG NUMBER: VWM-E02-LED-E1-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.3	6.4			
FM	(30°-60°)	2022.4	36.3			
FH	(60°-80°)	1800.3	32.4			G2/5000
FVH	(80°-90°)	179.1	3.2			G2/225
BL	(0°-30°)	300.4	5.4	B1/500		
BM	(30°-60°)	603.1	10.8	B1/1000		
BH	(60°-80°)	278.2	5.0	B1/500		G1/500
BVH	(80°-90°)	25.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3
2.5°	690.0	691.3	691.3	690.7	690.7	692.0	691.3	690.7	688.7	691.3	691.3
5°	684.7	686.0	686.0	687.3	688.7	690.0	690.0	691.3	690.7	693.3	695.3
7.5°	691.3	692.7	695.3	698.7	700.7	705.3	705.3	708.7	710.0	712.0	711.3
10°	700.0	703.3	709.3	714.7	718.7	724.0	728.0	732.7	732.7	734.7	736.0
12.5°	715.3	718.7	725.3	732.0	738.0	744.7	750.7	755.3	760.0	761.3	764.0
15°	740.7	744.7	754.7	764.0	771.3	780.0	788.0	797.3	806.0	808.0	809.3
17.5°	778.7	786.7	794.0	810.7	821.3	832.7	845.3	858.7	861.3	875.3	878.7
20°	832.7	842.7	849.3	870.0	888.0	902.7	921.3	936.7	942.7	956.0	969.3
22.5°	926.0	924.0	934.0	954.7	968.0	997.3	1013.3	1029.3	1037.3	1057.3	1068.0
25°	1051.3	1062.0	1084.0	1086.0	1098.7	1132.7	1153.3	1169.3	1170.0	1176.0	1187.3
27.5°	1174.7	1218.7	1253.3	1272.0	1306.0	1337.3	1336.0	1358.7	1323.3	1330.7	1341.3
30°	1324.0	1397.3	1462.7	1506.7	1541.3	1578.0	1596.0	1608.7	1593.3	1586.7	1574.0
32.5°	1464.0	1566.7	1667.3	1745.3	1810.0	1870.7	1910.7	1928.7	1950.0	2004.0	2023.3
35°	1560.0	1705.3	1830.7	1943.3	2051.3	2148.0	2218.0	2258.0	2242.7	2235.3	2231.3
37.5°	1617.3	1794.7	1951.3	2110.7	2234.7	2379.3	2488.0	2593.3	2617.3	2575.3	2554.7
40°	1653.3	1863.3	2064.7	2252.7	2413.3	2600.0	2734.7	2892.7	3012.7	3028.7	2979.3
42.5°	1670.7	1909.3	2144.0	2356.7	2574.0	2802.7	2973.3	3164.7	3344.0	3467.3	3436.7
45°	1673.3	1939.3	2202.0	2450.7	2709.3	2980.7	3200.7	3412.7	3652.7	3864.0	3870.0
47.5°	1673.3	1962.0	2242.0	2518.7	2830.7	3135.3	3375.3	3626.0	3920.0	4170.0	4246.7
50°	1674.7	1977.3	2279.3	2572.0	2923.3	3266.0	3537.3	3833.3	4142.7	4414.7	4562.7
52.5°	1680.7	1988.7	2308.7	2610.0	2983.3	3358.0	3663.3	4004.7	4312.7	4592.0	4783.3
55°	1694.0	2004.7	2330.0	2633.3	3023.3	3418.0	3754.7	4122.0	4422.7	4706.0	4973.3
57.5°	1731.3	2032.7	2356.0	2654.0	3045.3	3457.3	3818.7	4172.7	4464.7	4760.0	5074.0
60°	1806.0	2092.0	2400.7	2695.3	3082.0	3530.0	3849.3	4138.7	4434.0	4744.0	5096.7
62.5°	1925.3	2184.7	2462.7	2765.3	3186.7	3642.7	3826.0	4037.3	4313.3	4651.3	5016.0
63°	1966.7	2204.7	2476.7	2780.7	3215.3	3663.3	3816.0	4007.3	4288.7	4622.0	4987.3
65°	2082.0	2293.3	2543.3	2858.0	3333.3	3684.0	3738.0	3851.3	4118.0	4454.7	4818.0
67.5°	2297.3	2508.7	2686.7	2988.7	3432.7	3602.7	3496.0	3510.0	3788.7	4137.3	4464.0
70°	2433.3	2685.3	2778.0	3005.3	3414.7	3482.0	3182.7	2997.3	3220.7	3618.0	3904.0
72.5°	2398.0	2687.3	2677.3	2783.3	3054.7	3117.3	2807.3	2515.3	2648.0	2944.7	3130.0
75°	2054.0	2400.0	2326.7	2305.3	2400.7	2442.0	2209.3	2164.7	2332.0	2496.7	2499.3
77.5°	1478.7	1859.3	1773.3	1650.0	1643.3	1738.7	1770.0	2062.7	2310.0	2440.0	2382.7
80°	942.0	1354.7	1265.3	1050.0	1046.7	1170.7	1446.0	1844.0	2106.0	2178.7	2029.3
82.5°	492.0	886.7	920.7	788.0	902.0	1107.3	1376.0	1486.0	1585.3	1595.3	1419.3
85°	306.7	545.3	641.3	662.0	814.7	982.0	980.0	941.3	897.3	768.0	694.7
87.5°	34.7	68.7	104.0	98.7	132.7	186.0	232.0	136.0	95.3	34.7	48.0
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°	95°	100°	105°
0°	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3
2.5°	692.7	693.3	694.0	694.0	697.3	696.7	697.3	698.7	700.7	702.0	703.3
5°	698.0	698.0	700.7	702.7	706.7	709.3	710.7	714.7	719.3	718.0	722.0
7.5°	715.3	714.7	717.3	718.7	722.0	726.7	726.0	729.3	733.3	734.7	738.0
10°	738.7	736.7	736.7	735.3	736.0	734.7	734.7	734.7	737.3	736.7	739.3
12.5°	762.7	762.0	760.7	756.7	756.7	751.3	748.7	745.3	744.7	740.0	740.7
15°	812.0	812.0	809.3	801.3	794.7	790.0	783.3	778.7	772.0	763.3	758.7
17.5°	884.0	874.7	871.3	870.0	859.3	855.3	840.7	825.3	818.0	806.0	799.3
20°	972.0	970.0	956.7	950.0	936.7	918.0	899.3	879.3	867.3	852.7	844.7
22.5°	1071.3	1056.7	1050.0	1040.0	1019.3	998.0	970.0	943.3	924.7	914.7	908.7
25°	1187.3	1172.7	1166.0	1152.7	1127.3	1104.7	1070.0	1038.7	1022.0	1005.3	996.0
27.5°	1341.3	1327.3	1319.3	1284.7	1276.0	1238.7	1196.0	1153.3	1131.3	1106.7	1090.7
30°	1571.3	1572.0	1530.7	1488.7	1445.3	1380.7	1336.0	1288.0	1252.0	1216.7	1181.3
32.5°	1960.0	1860.7	1784.0	1694.0	1600.0	1531.3	1476.0	1418.7	1368.7	1317.3	1258.7
35°	2197.3	2149.3	2050.0	1885.3	1790.7	1707.3	1646.0	1576.7	1515.3	1424.7	1335.3
37.5°	2465.3	2354.0	2233.3	2142.0	2034.7	1938.0	1835.3	1756.7	1650.7	1528.7	1402.0
40°	2856.7	2697.3	2552.0	2429.3	2290.7	2189.3	2074.7	1960.7	1820.0	1643.3	1469.3
42.5°	3265.3	3100.7	2908.7	2749.3	2586.0	2467.3	2325.3	2165.3	1958.7	1740.0	1527.3
45°	3694.0	3474.0	3244.0	3049.3	2879.3	2732.0	2556.0	2344.0	2092.0	1826.7	1581.3
47.5°	4116.7	3864.0	3590.0	3380.7	3159.3	2979.3	2763.3	2495.3	2196.0	1908.7	1635.3
50°	4489.3	4246.0	3916.0	3650.0	3426.0	3204.0	2934.7	2612.0	2278.0	1979.3	1684.0
52.5°	4810.7	4601.3	4254.0	3918.0	3660.0	3410.7	3072.7	2706.0	2360.7	2044.7	1724.0
55°	5046.7	4907.3	4587.3	4170.7	3866.0	3568.7	3189.3	2796.7	2438.7	2096.7	1750.0
57.5°	5224.7	5147.3	4872.7	4408.7	4055.3	3722.0	3310.0	2905.3	2516.0	2141.3	1762.0
60°	5322.0	5343.3	5088.7	4616.7	4222.7	3850.0	3430.7	2998.0	2573.3	2167.3	1755.3
62.5°	5312.7	5443.3	5250.7	4744.7	4320.0	3926.0	3512.0	3041.3	2565.3	2126.0	1694.7
63°	5294.7	5446.7	5268.7	4753.3	4326.0	3928.7	3514.0	3035.3	2548.7	2106.0	1670.7
65°	5139.3	5370.0	5253.3	4714.0	4272.7	3878.7	3472.0	2948.7	2431.3	1998.7	1547.3
67.5°	4723.3	5012.0	4978.7	4436.0	4020.0	3672.0	3257.3	2669.3	2141.3	1734.7	1311.3
70°	4036.0	4307.3	4313.3	3858.0	3510.7	3169.3	2824.7	2172.0	1697.3	1344.7	978.0
72.5°	3093.3	3268.0	3328.7	3028.7	2796.0	2556.0	2246.7	1576.7	1210.0	914.7	636.7
75°	2395.3	2347.3	2346.7	2220.0	2125.3	2008.0	1668.0	1064.0	794.7	594.7	389.3
77.5°	2153.3	1940.0	1733.3	1581.3	1505.3	1466.0	1094.0	641.3	468.7	342.0	224.0
80°	1776.0	1461.3	1180.7	1016.7	951.3	996.7	610.0	346.7	256.7	194.7	145.3
82.5°	1224.7	1016.7	772.7	640.0	549.3	574.7	312.0	177.3	118.7	108.7	90.0
85°	638.0	559.3	472.0	405.3	358.0	314.7	162.0	84.7	49.3	43.3	39.3
87.5°	0.0	0.7	0.0	0.0	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	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3
2.5°	705.3	704.7	706.0	706.7	708.7	710.0	710.7	709.3	711.3	713.3	712.0
5°	724.0	728.7	729.3	731.3	731.3	735.3	735.3	735.3	734.7	735.3	734.0
7.5°	740.0	746.0	746.7	749.3	750.0	754.7	752.7	754.0	754.0	750.7	749.3
10°	742.0	748.0	751.3	754.7	759.3	765.3	765.3	768.7	768.7	766.0	765.3
12.5°	742.7	747.3	750.7	755.3	762.0	770.7	775.3	780.0	782.0	781.3	779.3
15°	756.7	756.7	757.3	761.3	766.0	776.7	783.3	788.7	792.0	790.7	787.3
17.5°	793.3	788.0	784.0	777.3	778.7	784.0	788.0	792.7	793.3	792.0	786.7
20°	836.0	829.3	819.3	808.7	803.3	799.3	796.7	796.7	794.7	788.0	779.3
22.5°	896.7	888.0	874.0	858.0	847.3	834.7	819.3	804.7	788.7	772.7	754.0
25°	980.7	968.7	954.0	929.3	906.7	880.0	848.7	816.0	778.0	744.7	717.3
27.5°	1065.3	1038.7	1000.7	966.7	924.7	884.7	840.0	800.0	751.3	711.3	681.3
30°	1135.3	1084.7	1030.0	976.0	920.7	866.7	813.3	765.3	712.0	671.3	642.0
32.5°	1189.3	1119.3	1043.3	972.7	904.7	838.7	777.3	724.0	670.0	628.0	596.7
35°	1239.3	1142.0	1045.3	958.0	874.0	805.3	736.0	678.0	620.7	576.7	542.7
37.5°	1276.7	1152.7	1033.3	930.7	834.0	757.3	686.7	627.3	568.7	520.7	482.0
40°	1300.7	1146.0	1007.3	891.3	786.7	706.0	634.0	572.7	516.0	463.3	416.7
42.5°	1320.0	1137.3	981.3	855.3	749.3	661.3	587.3	521.3	464.0	406.7	355.3
45°	1348.7	1144.0	970.0	830.0	716.0	623.3	542.0	473.3	413.3	357.3	308.0
47.5°	1376.7	1147.3	953.3	798.7	674.0	584.0	501.3	434.7	373.3	322.0	276.7
50°	1402.0	1145.3	927.3	758.7	633.3	544.7	464.7	398.0	337.3	290.0	247.3
52.5°	1414.0	1134.0	895.3	720.0	600.7	510.0	428.7	364.0	304.0	259.3	220.0
55°	1412.7	1104.7	853.3	683.3	564.7	473.3	393.3	329.3	275.3	234.0	200.0
57.5°	1392.7	1059.3	808.7	642.7	517.3	428.0	352.0	290.0	244.7	210.0	181.3
60°	1350.7	1001.3	750.0	583.3	458.0	372.0	300.7	247.3	210.7	184.0	165.3
62.5°	1272.0	918.0	676.7	500.7	378.0	299.3	237.3	202.7	175.3	159.3	150.7
63°	1248.7	895.3	645.3	480.7	359.3	282.7	224.0	188.0	168.0	154.0	146.0
65°	1132.7	784.0	540.0	388.0	279.3	218.0	180.0	152.7	140.7	134.7	134.0
67.5°	917.3	616.7	382.0	266.0	190.0	157.3	138.0	126.7	121.3	120.0	121.3
70°	644.0	389.3	242.7	176.7	140.7	126.7	118.0	113.3	110.0	110.7	112.0
72.5°	410.7	233.3	166.7	134.0	118.7	111.3	107.3	106.0	105.3	104.7	104.7
75°	234.0	155.3	128.0	116.0	108.0	102.0	98.7	97.3	98.0	98.7	97.3
77.5°	154.7	128.0	114.0	106.0	98.7	92.0	90.0	89.3	90.7	92.0	92.0
80°	122.0	114.0	106.0	98.0	86.0	81.3	82.7	83.3	82.7	83.3	81.3
82.5°	86.0	84.7	86.7	83.3	71.3	67.3	66.0	66.7	65.3	65.3	64.0
85°	40.0	40.0	42.0	42.0	40.7	41.3	44.7	48.7	50.7	48.7	46.0
87.5°	0.0	0.0	0.0	0.0	0.0	6.0	12.0	17.3	18.7	23.3	22.7
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: P152780

CATALOG NUMBER: VWM-E02-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3
2.5°	710.0	711.3	710.7	710.0	711.3	710.0	710.7	710.0	710.0	709.3	709.3
5°	732.7	734.7	730.7	730.0	728.7	725.3	725.3	724.0	724.0	721.3	719.3
7.5°	747.3	748.0	744.7	744.0	740.7	737.3	734.7	732.0	731.3	729.3	725.3
10°	761.3	760.0	757.3	754.0	750.7	746.0	742.7	739.3	738.7	735.3	730.7
12.5°	773.3	772.7	767.3	764.0	758.7	754.0	750.0	746.0	744.0	740.0	733.3
15°	781.3	777.3	770.7	764.7	758.7	753.3	748.7	744.0	742.0	737.3	730.7
17.5°	778.0	770.7	762.0	754.7	746.7	740.0	736.0	731.3	728.0	725.3	716.0
20°	766.0	755.3	742.0	733.3	722.7	714.0	711.3	706.7	704.0	694.0	682.0
22.5°	734.7	719.3	702.7	690.0	678.0	669.3	662.7	658.0	651.3	645.3	626.7
25°	695.3	678.0	660.7	645.3	629.3	616.0	604.0	592.7	589.3	576.7	558.7
27.5°	657.3	638.0	620.7	602.7	582.0	565.3	544.7	528.7	518.0	504.7	488.0
30°	616.7	597.3	574.0	550.0	526.0	508.0	484.7	465.3	452.0	438.0	422.7
32.5°	565.3	542.0	514.0	487.3	465.3	444.0	420.7	402.0	388.7	376.0	361.3
35°	506.7	476.0	446.0	416.7	393.3	375.3	354.7	340.7	331.3	320.0	304.7
37.5°	439.3	404.7	372.7	350.0	329.3	312.0	297.3	288.7	278.7	272.7	263.3
40°	371.3	337.3	306.0	285.3	268.0	258.0	250.0	248.0	241.3	233.3	227.3
42.5°	311.3	278.7	248.0	231.3	220.0	217.3	213.3	213.3	210.0	204.0	200.0
45°	270.7	236.7	210.0	198.0	192.0	191.3	189.3	189.3	188.7	186.0	181.3
47.5°	241.3	210.7	190.0	182.7	181.3	180.0	178.0	177.3	176.7	174.7	172.0
50°	214.7	188.7	175.3	172.0	172.7	170.7	168.7	166.7	166.0	164.0	161.3
52.5°	190.0	171.3	162.7	160.7	160.7	160.7	159.3	159.3	158.0	157.3	154.7
55°	176.0	162.0	157.3	156.7	156.0	155.3	154.0	154.0	152.7	152.0	148.7
57.5°	164.0	155.3	152.7	151.3	150.7	149.3	148.7	148.7	148.7	148.7	144.7
60°	154.7	150.7	150.0	148.7	148.0	145.3	144.0	143.3	144.0	144.7	140.7
62.5°	144.7	144.0	143.3	142.0	141.3	138.7	136.7	135.3	136.7	138.0	137.3
63°	142.0	141.3	141.3	140.7	140.0	136.7	134.7	133.3	134.7	136.0	136.0
65°	132.7	133.3	133.3	132.7	132.0	130.0	127.3	126.0	126.7	128.7	129.3
67.5°	122.7	123.3	122.7	123.3	122.7	121.3	119.3	118.0	117.3	118.0	118.7
70°	113.3	114.7	114.0	113.3	112.7	112.7	111.3	109.3	108.7	108.0	108.0
72.5°	105.3	105.3	104.0	104.0	103.3	103.3	102.0	100.0	99.3	99.3	98.0
75°	96.7	96.7	94.7	94.7	93.3	94.0	92.7	90.7	90.0	90.0	89.3
77.5°	91.3	89.3	86.0	85.3	84.7	84.7	84.0	82.0	81.3	81.3	80.7
80°	80.7	76.7	73.3	72.7	73.3	74.7	74.7	73.3	73.3	73.3	73.3
82.5°	62.7	61.3	59.3	58.0	58.0	60.0	62.7	64.0	65.3	66.7	66.7
85°	46.0	46.7	46.0	44.0	43.3	45.3	48.0	50.7	51.3	54.0	53.3
87.5°	24.7	25.3	23.3	22.7	24.7	26.0	28.7	29.3	30.7	31.3	32.0
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3
2.5°	708.7	708.0	708.7	707.3	707.3	706.0	704.7	704.0	702.7	702.0	700.7
5°	720.7	718.7	716.7	716.0	713.3	710.7	708.7	705.3	702.7	698.0	696.7
7.5°	728.7	724.0	721.3	720.7	716.7	714.7	710.0	706.0	702.0	696.0	694.0
10°	732.0	727.3	722.7	720.7	716.0	712.7	708.0	702.0	698.7	692.7	691.3
12.5°	736.0	727.3	720.0	714.7	708.0	700.7	696.0	692.7	688.0	684.7	683.3
15°	728.7	717.3	706.0	696.0	685.3	677.3	672.7	667.3	662.0	660.0	660.0
17.5°	708.7	694.0	674.7	662.0	650.7	642.0	636.0	630.7	630.0	627.3	628.7
20°	667.3	648.0	629.3	620.0	613.3	608.0	602.0	599.3	597.3	593.3	592.0
22.5°	610.0	594.0	580.7	574.0	568.7	562.0	556.7	548.7	546.7	542.7	540.7
25°	546.7	534.0	522.7	518.0	514.7	505.3	502.0	491.3	484.0	479.3	482.0
27.5°	483.3	474.0	463.3	457.3	455.3	446.7	443.3	431.3	425.3	425.3	418.7
30°	418.0	409.3	402.7	396.0	394.7	384.0	375.3	370.7	364.0	361.3	356.7
32.5°	356.7	348.0	342.7	339.3	334.0	325.3	316.7	308.7	298.0	294.0	292.0
35°	300.0	293.3	286.7	284.0	276.7	267.3	256.7	250.0	237.3	232.7	230.7
37.5°	256.7	248.7	244.0	236.7	229.3	219.3	211.3	205.3	200.7	198.7	198.7
40°	222.0	216.0	210.7	204.7	198.7	193.3	189.3	188.0	187.3	187.3	188.7
42.5°	196.0	190.7	188.0	184.7	182.7	182.7	182.0	182.7	183.3	184.0	186.0
45°	178.7	175.3	174.0	173.3	174.7	176.0	176.7	178.0	180.7	182.0	182.7
47.5°	169.3	166.7	166.0	166.7	168.7	171.3	174.0	176.0	178.0	178.7	179.3
50°	160.0	156.7	155.3	156.7	159.3	163.3	165.3	168.7	170.0	171.3	170.0
52.5°	152.0	149.3	148.7	148.7	151.3	154.0	156.7	159.3	160.0	160.0	159.3
55°	145.3	143.3	141.3	142.7	144.7	147.3	151.3	153.3	154.7	155.3	155.3
57.5°	140.0	138.0	136.0	137.3	139.3	142.0	146.0	148.0	149.3	151.3	152.0
60°	136.0	133.3	131.3	133.3	135.3	139.3	142.7	144.7	148.0	148.7	148.7
62.5°	132.0	129.3	126.0	128.0	128.0	130.0	133.3	136.0	139.3	140.7	140.7
63°	131.3	128.7	125.3	126.7	126.7	128.0	130.7	133.3	137.3	138.7	138.0
65°	126.0	125.3	122.0	122.0	120.7	122.0	124.0	126.7	128.7	130.7	130.7
67.5°	117.3	116.7	116.0	116.0	116.0	117.3	118.7	120.7	122.7	124.0	123.3
70°	107.3	107.3	107.3	108.0	108.0	109.3	110.0	109.3	111.3	112.7	112.0
72.5°	98.7	98.0	97.3	98.7	98.0	98.0	99.3	98.7	100.7	100.7	101.3
75°	89.3	88.7	88.7	89.3	88.0	86.7	87.3	87.3	88.0	88.0	89.3
77.5°	81.3	81.3	81.3	80.7	79.3	78.7	78.0	78.0	78.0	78.0	78.7
80°	74.0	74.0	74.0	73.3	72.0	70.7	69.3	68.7	68.0	64.7	64.7
82.5°	66.7	66.7	66.7	66.7	66.0	64.7	62.7	57.3	54.7	52.0	52.7
85°	52.7	54.0	55.3	57.3	56.7	56.7	52.7	46.0	42.0	39.3	40.0
87.5°	34.0	30.0	30.0	29.3	28.0	26.7	26.7	22.7	18.7	16.7	17.3
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	0°
2.5°	700.7	699.3	698.0	698.0	696.0	696.0	694.7	697.3	694.7	692.7	692.7	2.5°
5°	695.3	694.0	690.0	689.3	686.7	686.7	686.7	685.3	685.3	684.0	683.3	5°
7.5°	692.0	688.7	685.3	683.3	683.3	682.0	684.7	683.3	684.0	684.0	684.7	7.5°
10°	689.3	686.7	685.3	684.7	684.7	686.7	688.7	689.3	688.7	689.3	689.3	10°
12.5°	682.7	684.0	684.7	687.3	690.7	694.7	699.3	700.0	701.3	701.3	702.7	12.5°
15°	661.3	664.7	668.7	675.3	684.0	692.7	701.3	708.7	715.3	718.7	721.3	15°
17.5°	631.3	634.7	642.0	649.3	660.7	673.3	688.0	700.7	714.7	727.3	740.0	17.5°
20°	590.7	596.0	598.0	611.3	624.7	642.0	659.3	679.3	703.3	727.3	752.0	20°
22.5°	538.0	544.0	553.3	564.0	578.0	599.3	620.0	651.3	683.3	717.3	756.0	22.5°
25°	479.3	486.0	494.0	505.3	519.3	542.0	572.0	605.3	644.7	689.3	737.3	25°
27.5°	418.7	425.3	432.0	440.0	456.0	480.0	515.3	550.0	593.3	642.0	698.0	27.5°
30°	358.0	358.7	362.7	372.7	389.3	420.7	446.7	490.0	535.3	586.7	651.3	30°
32.5°	291.3	290.7	295.3	304.0	320.0	350.0	382.0	424.0	468.7	533.3	600.0	32.5°
35°	232.0	232.0	240.7	249.3	267.3	288.7	316.7	354.0	406.7	466.7	533.3	35°
37.5°	200.7	205.3	210.7	219.3	233.3	250.0	274.7	307.3	348.7	406.0	467.3	37.5°
40°	190.7	193.3	198.0	206.0	218.0	233.3	251.3	276.0	308.0	354.0	410.0	40°
42.5°	186.7	187.3	190.0	196.0	206.7	222.0	240.7	262.7	286.7	319.3	368.0	42.5°
45°	182.7	182.0	183.3	188.0	196.7	214.0	235.3	259.3	283.3	310.7	350.7	45°
47.5°	179.3	179.3	179.3	181.3	189.3	206.7	231.3	259.3	288.0	318.7	358.0	47.5°
50°	170.0	169.3	169.3	170.7	176.7	195.3	224.7	258.7	296.0	336.0	380.7	50°
52.5°	159.3	159.3	160.0	160.7	166.0	184.7	217.3	258.7	305.3	358.7	414.7	52.5°
55°	156.0	156.7	157.3	156.7	160.7	176.7	209.3	254.7	309.3	376.7	451.3	55°
57.5°	153.3	154.7	154.7	154.0	156.7	170.0	201.3	246.7	306.0	383.3	477.3	57.5°
60°	149.3	149.3	149.3	147.3	148.7	160.7	189.3	234.0	295.3	377.3	481.3	60°
62.5°	140.7	140.7	139.3	138.7	138.0	147.3	173.3	215.3	276.0	361.3	471.3	62.5°
63°	138.7	138.0	138.0	136.0	136.0	144.7	170.0	212.7	270.7	357.3	467.3	63°
65°	131.3	131.3	131.3	130.0	129.3	136.0	156.7	194.0	250.0	338.7	447.3	65°
67.5°	123.3	124.0	122.7	122.0	121.3	125.3	141.3	170.7	218.0	299.3	410.0	67.5°
70°	112.0	112.7	112.7	112.0	111.3	114.0	124.0	146.7	180.7	249.3	349.3	70°
72.5°	102.0	103.3	103.3	104.7	104.7	106.7	110.7	122.0	144.7	194.7	274.7	72.5°
75°	91.3	92.0	93.3	94.7	93.3	92.7	93.3	102.0	113.3	144.0	196.0	75°
77.5°	82.0	84.0	84.0	83.3	81.3	80.0	80.0	84.0	93.3	109.3	140.0	77.5°
80°	68.0	71.3	72.0	70.0	68.0	68.0	69.3	72.0	78.0	90.0	106.0	80°
82.5°	54.7	58.0	58.7	59.3	58.7	60.7	60.7	61.3	64.7	74.0	86.7	82.5°
85°	42.0	44.7	46.7	47.3	48.0	48.7	48.0	44.7	46.7	52.7	58.7	85°
87.5°	18.7	19.3	18.0	18.7	18.0	18.7	19.3	16.0	15.3	20.7	21.3	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
699.3	699.3	699.3	699.3	699.3	699.3	699.3
692.0	692.0	692.7	691.3	691.3	692.0	690.0
681.3	684.0	684.0	684.0	682.7	684.0	684.7
684.0	686.0	687.3	687.3	686.7	689.3	691.3
687.3	690.7	692.0	692.0	692.0	695.3	700.0
700.0	702.7	704.7	704.7	706.0	710.0	715.3
723.3	726.7	726.7	726.0	730.0	734.7	740.7
749.3	758.7	763.3	762.7	766.0	772.0	778.7
774.0	800.0	811.3	819.3	822.7	830.7	832.7
794.7	838.0	869.3	896.0	908.7	916.7	926.0
787.3	846.0	902.0	956.7	995.3	1034.7	1051.3
757.3	830.7	904.0	984.0	1054.0	1124.0	1174.7
720.7	808.7	907.3	1020.7	1131.3	1238.7	1324.0
678.7	788.0	914.7	1054.7	1200.0	1340.7	1464.0
626.0	748.7	896.7	1058.0	1229.3	1400.0	1560.0
559.3	695.3	854.7	1034.0	1230.7	1426.0	1617.3
492.7	628.0	801.3	999.3	1213.3	1432.0	1653.3
446.0	568.0	747.3	955.3	1185.3	1422.7	1670.7
414.0	524.7	699.3	915.3	1155.3	1406.0	1673.3
411.3	506.0	668.0	886.0	1131.3	1391.3	1673.3
434.0	516.0	657.3	871.3	1121.3	1386.7	1674.7
476.7	556.0	676.7	882.7	1129.3	1392.7	1680.7
528.0	616.7	728.7	922.0	1163.3	1412.7	1694.0
574.7	686.7	817.3	998.0	1225.3	1463.3	1731.3
602.0	746.7	911.3	1104.7	1331.3	1564.0	1806.0
605.3	780.0	994.7	1220.7	1460.0	1679.3	1925.3
602.7	782.7	1005.3	1242.7	1487.3	1708.0	1966.7
588.0	783.3	1035.3	1320.0	1582.0	1828.7	2082.0
550.7	762.0	1046.0	1380.7	1701.3	1987.3	2297.3
486.0	701.3	1014.7	1382.0	1747.3	2076.0	2433.3
390.7	586.0	879.3	1257.3	1626.0	1988.7	2398.0
286.0	430.7	664.7	974.0	1326.7	1655.3	2054.0
190.0	278.7	448.0	694.0	951.3	1191.3	1478.7
130.7	172.7	262.0	417.3	582.0	698.7	942.0
96.0	114.0	145.3	213.3	280.0	344.7	492.0
60.0	65.3	72.7	105.3	150.7	203.3	306.7
16.0	16.7	15.3	20.7	32.7	31.3	34.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)