

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: P149918

Luminaire Tested: **VWM-E01-LED-E1-SL2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149918
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-E01-LED-E1-SL2-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2578.5 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

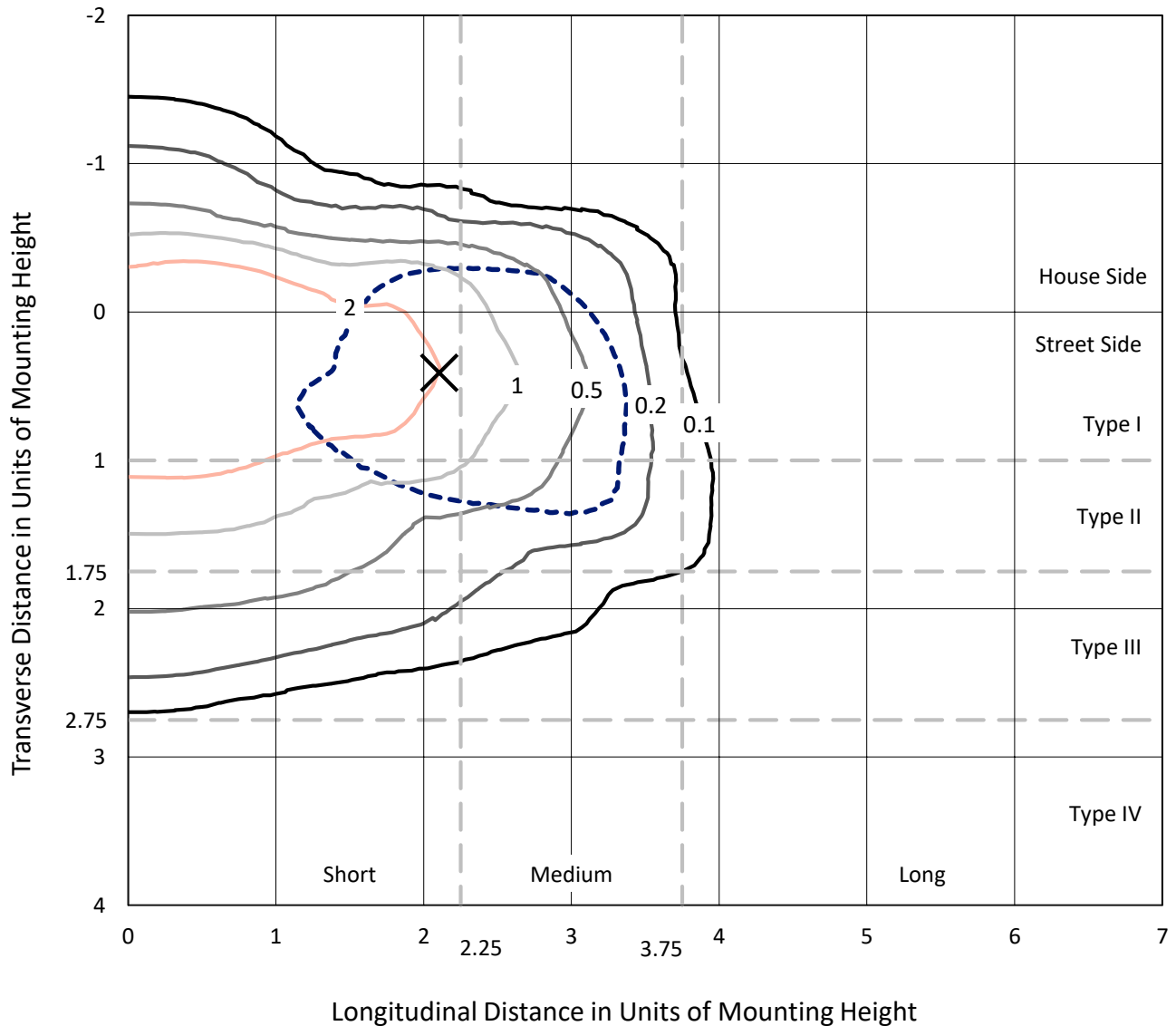
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P149918
 CATALOG NUMBER: VWM-E01-LED-E1-SL2-8030

Iso-Footcandle Lines of Horizontal Illumination

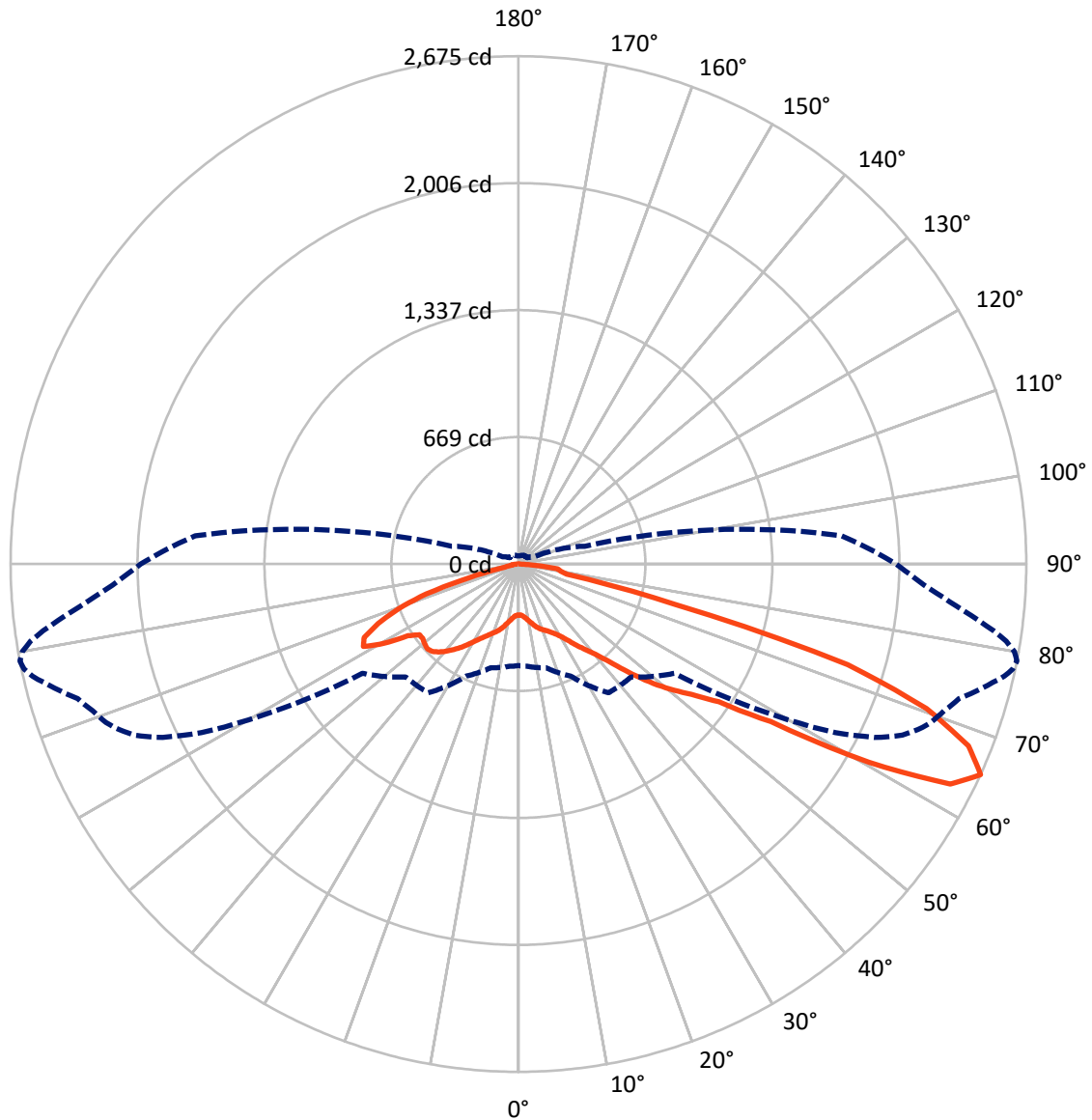
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P149918
CATALOG NUMBER: VWM-E01-LED-E1-SL2-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P149918

CATALOG NUMBER: VWM-E01-LED-E1-SL2-8030

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 609.5 | 0.0 | 609.5 |
| | % Fixture | 23.6 | 0.0 | 23.6 |
| Street Side | Lumens | 1968.9 | 0.0 | 1968.9 |
| | % Fixture | 76.4 | 0.0 | 76.4 |
| Total | Lumens | 2578.5 | 0.0 | 2578.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 26.7 | 1.0 |
| 10°-20° | 87.2 | 3.4 |
| 20°-30° | 150.7 | 5.8 |
| 30°-40° | 249.4 | 9.7 |
| 40°-50° | 423.0 | 16.4 |
| 50°-60° | 562.0 | 21.8 |
| 60°-70° | 726.0 | 28.2 |
| 70°-80° | 304.5 | 11.8 |
| 80°-90° | 48.9 | 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° | 2578.5 | 100.0 |
| 0°-180° | 2578.5 | 100.0 |



REPORT NUMBER: P149918

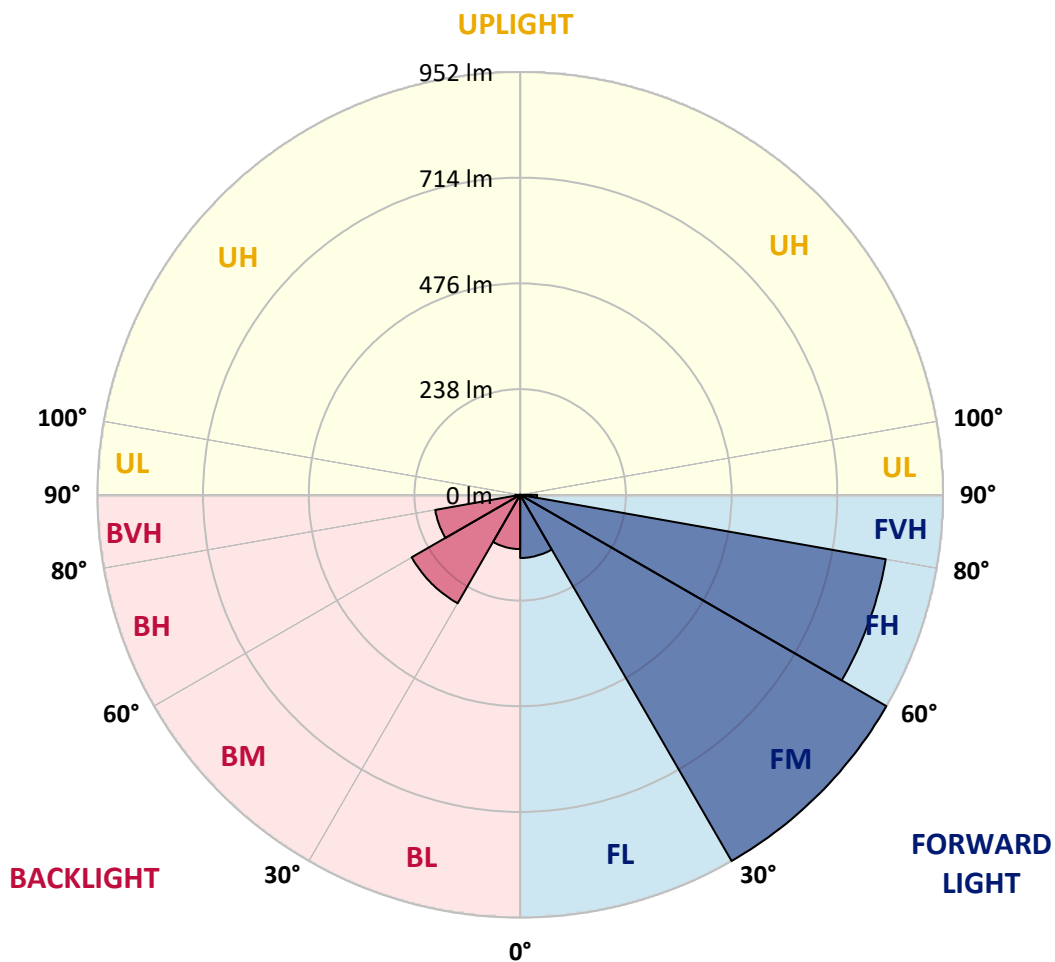
CATALOG NUMBER: VWM-E01-LED-E1-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 142.3 | 5.5 | | | |
| FM | (30°-60°) | 952.3 | 36.9 | | | |
| FH | (60°-80°) | 836.1 | 32.4 | | | G1/1800 |
| FVH | (80°-90°) | 38.2 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 122.3 | 4.7 | B1/500 | | |
| BM | (30°-60°) | 282.2 | 10.9 | B1/1000 | | |
| BH | (60°-80°) | 194.4 | 7.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 10.7 | 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-G1

Type II Short





REPORT NUMBER: P149918

CATALOG NUMBER: VWM-E01-LED-E1-SL2-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 |
| 2.5° | 267.5 | 268.4 | 267.8 | 268.4 | 269.0 | 269.2 | 269.8 | 269.5 | 269.5 | 269.8 | 269.2 |
| 5° | 267.5 | 267.5 | 268.4 | 269.8 | 270.4 | 272.0 | 274.0 | 273.7 | 274.0 | 273.7 | 274.3 |
| 7.5° | 273.2 | 272.9 | 273.7 | 275.4 | 276.0 | 278.5 | 281.9 | 282.5 | 283.0 | 283.0 | 283.9 |
| 10° | 283.0 | 282.7 | 283.6 | 284.4 | 285.3 | 287.2 | 292.0 | 294.0 | 294.3 | 294.6 | 295.7 |
| 12.5° | 295.4 | 295.1 | 294.0 | 294.0 | 293.7 | 297.4 | 303.8 | 307.5 | 308.1 | 309.2 | 310.0 |
| 15° | 304.1 | 303.3 | 301.6 | 300.5 | 301.9 | 307.8 | 317.3 | 321.6 | 322.1 | 323.0 | 325.2 |
| 17.5° | 312.6 | 311.7 | 308.1 | 305.2 | 307.2 | 316.8 | 329.7 | 334.2 | 335.3 | 336.2 | 338.7 |
| 20° | 324.4 | 323.8 | 318.5 | 311.7 | 311.2 | 323.5 | 339.3 | 345.2 | 346.0 | 347.2 | 349.7 |
| 22.5° | 342.4 | 339.8 | 333.7 | 321.0 | 314.8 | 327.5 | 346.0 | 354.2 | 355.3 | 356.4 | 359.8 |
| 25° | 364.9 | 363.8 | 353.1 | 333.7 | 320.7 | 331.4 | 353.4 | 363.5 | 365.2 | 366.6 | 371.1 |
| 27.5° | 388.2 | 386.5 | 375.0 | 349.7 | 331.1 | 339.3 | 364.9 | 376.4 | 378.7 | 380.9 | 385.1 |
| 30° | 409.1 | 408.5 | 398.9 | 371.4 | 348.0 | 354.2 | 383.5 | 397.5 | 400.1 | 402.9 | 406.8 |
| 32.5° | 458.0 | 458.3 | 448.4 | 420.3 | 388.8 | 381.2 | 410.2 | 431.3 | 432.4 | 435.8 | 442.8 |
| 35° | 551.7 | 552.8 | 549.2 | 526.9 | 491.5 | 460.3 | 463.1 | 483.9 | 485.0 | 487.8 | 494.6 |
| 37.5° | 614.4 | 616.7 | 627.9 | 635.0 | 617.0 | 602.6 | 566.9 | 558.7 | 559.6 | 557.9 | 556.5 |
| 40° | 649.0 | 652.4 | 681.9 | 718.5 | 738.2 | 738.5 | 723.0 | 687.0 | 673.2 | 669.3 | 652.4 |
| 42.5° | 668.7 | 674.3 | 716.3 | 778.7 | 835.3 | 874.1 | 883.7 | 843.7 | 833.6 | 815.6 | 783.2 |
| 45° | 681.7 | 688.4 | 737.9 | 823.5 | 906.7 | 972.8 | 1022.6 | 1004.9 | 998.2 | 987.2 | 957.4 |
| 47.5° | 679.4 | 684.8 | 736.2 | 838.6 | 944.1 | 1038.1 | 1126.4 | 1144.7 | 1136.6 | 1133.8 | 1113.5 |
| 50° | 638.3 | 643.1 | 695.4 | 800.9 | 923.6 | 1062.9 | 1192.3 | 1244.0 | 1244.0 | 1249.4 | 1243.2 |
| 52.5° | 594.5 | 598.4 | 645.9 | 740.7 | 857.2 | 1038.7 | 1228.9 | 1314.7 | 1325.9 | 1335.2 | 1349.8 |
| 55° | 577.9 | 582.6 | 618.6 | 699.7 | 800.7 | 969.5 | 1241.2 | 1367.5 | 1388.4 | 1404.1 | 1437.3 |
| 57.5° | 585.7 | 590.5 | 616.1 | 677.4 | 767.5 | 898.9 | 1241.8 | 1438.7 | 1479.0 | 1511.3 | 1578.5 |
| 60° | 619.8 | 624.3 | 645.7 | 698.0 | 758.7 | 858.1 | 1217.9 | 1552.1 | 1616.2 | 1677.0 | 1789.0 |
| 62.5° | 604.0 | 609.6 | 640.9 | 732.0 | 823.7 | 827.1 | 1131.5 | 1639.9 | 1743.1 | 1832.9 | 2010.9 |
| 65° | 535.1 | 541.0 | 565.5 | 650.7 | 827.7 | 840.6 | 1003.5 | 1641.6 | 1769.8 | 1891.1 | 2083.3 |
| 67.5° | 406.2 | 408.5 | 427.9 | 496.3 | 662.0 | 855.5 | 871.8 | 1447.2 | 1569.3 | 1704.6 | 1902.9 |
| 70° | 207.6 | 211.6 | 217.2 | 274.0 | 426.2 | 707.0 | 749.2 | 1066.5 | 1222.1 | 1361.9 | 1600.2 |
| 72.5° | 72.0 | 73.4 | 79.1 | 104.7 | 207.6 | 463.9 | 655.8 | 730.9 | 824.9 | 955.7 | 1231.7 |
| 75° | 43.3 | 43.3 | 45.3 | 52.9 | 94.8 | 241.7 | 583.5 | 597.0 | 609.6 | 653.5 | 834.1 |
| 77.5° | 34.3 | 34.9 | 34.9 | 36.3 | 52.6 | 124.1 | 443.1 | 555.1 | 556.8 | 561.0 | 591.4 |
| 80° | 24.5 | 25.6 | 27.9 | 29.0 | 34.0 | 68.1 | 248.7 | 487.3 | 520.5 | 536.5 | 558.7 |
| 82.5° | 18.3 | 19.4 | 23.6 | 25.0 | 26.4 | 38.0 | 111.7 | 336.2 | 396.7 | 428.7 | 507.0 |
| 85° | 8.2 | 9.6 | 16.0 | 17.7 | 18.6 | 20.3 | 52.3 | 95.7 | 110.0 | 123.5 | 162.9 |
| 87.5° | 1.4 | 1.4 | 2.5 | 3.7 | 5.3 | 5.1 | 11.5 | 16.3 | 16.6 | 19.4 | 21.7 |
| 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: P149918

CATALOG NUMBER: VWM-E01-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 |
| 2.5° | 269.2 | 269.2 | 269.2 | 269.0 | 269.2 | 269.2 | 269.2 | 269.2 | 269.5 | 269.5 | 269.5 |
| 5° | 275.1 | 274.6 | 274.9 | 274.9 | 274.9 | 274.6 | 275.1 | 274.9 | 275.1 | 276.0 | 275.7 |
| 7.5° | 283.9 | 284.4 | 284.7 | 285.0 | 285.0 | 285.0 | 285.3 | 285.8 | 285.8 | 286.7 | 286.4 |
| 10° | 296.8 | 296.5 | 296.8 | 297.6 | 298.5 | 298.8 | 299.6 | 299.3 | 299.9 | 301.0 | 302.1 |
| 12.5° | 310.6 | 311.2 | 312.0 | 312.8 | 314.2 | 314.5 | 315.4 | 315.7 | 317.3 | 317.3 | 318.5 |
| 15° | 326.1 | 326.3 | 328.0 | 328.3 | 330.0 | 330.6 | 332.0 | 332.5 | 334.5 | 334.8 | 335.9 |
| 17.5° | 340.1 | 340.7 | 341.5 | 342.4 | 344.3 | 345.2 | 346.3 | 347.4 | 349.1 | 349.7 | 351.7 |
| 20° | 351.4 | 352.5 | 352.8 | 354.5 | 356.2 | 357.3 | 358.4 | 359.5 | 361.2 | 362.1 | 364.0 |
| 22.5° | 361.5 | 362.6 | 363.5 | 364.9 | 366.0 | 367.7 | 368.3 | 370.2 | 371.9 | 373.3 | 375.0 |
| 25° | 372.5 | 374.2 | 375.0 | 377.5 | 378.4 | 380.1 | 381.5 | 383.5 | 385.7 | 387.4 | 389.6 |
| 27.5° | 388.0 | 390.5 | 391.6 | 394.4 | 396.4 | 397.2 | 399.5 | 402.3 | 404.3 | 406.2 | 408.5 |
| 30° | 409.3 | 414.1 | 415.0 | 416.9 | 420.6 | 421.2 | 424.0 | 426.2 | 429.3 | 431.3 | 433.2 |
| 32.5° | 442.5 | 448.4 | 449.0 | 451.3 | 454.3 | 455.5 | 457.7 | 460.3 | 465.0 | 465.9 | 469.0 |
| 35° | 493.5 | 496.0 | 498.2 | 499.1 | 501.6 | 503.0 | 504.7 | 507.5 | 512.3 | 511.7 | 515.1 |
| 37.5° | 554.5 | 555.3 | 555.6 | 552.8 | 553.4 | 550.8 | 553.9 | 554.5 | 556.2 | 557.6 | 561.0 |
| 40° | 641.7 | 633.0 | 631.9 | 625.1 | 618.4 | 614.7 | 613.3 | 607.7 | 609.1 | 609.6 | 612.5 |
| 42.5° | 769.2 | 752.3 | 738.2 | 728.6 | 712.0 | 703.9 | 692.9 | 684.2 | 677.4 | 680.0 | 681.1 |
| 45° | 930.6 | 906.4 | 883.9 | 854.7 | 833.0 | 817.5 | 798.1 | 780.7 | 772.8 | 769.2 | 773.7 |
| 47.5° | 1091.8 | 1070.5 | 1044.0 | 1013.9 | 979.6 | 954.0 | 921.6 | 893.2 | 873.5 | 866.2 | 870.2 |
| 50° | 1231.1 | 1211.4 | 1191.4 | 1173.7 | 1133.8 | 1105.9 | 1061.7 | 1024.9 | 993.9 | 978.2 | 974.0 |
| 52.5° | 1346.7 | 1336.3 | 1325.6 | 1310.7 | 1278.6 | 1250.8 | 1215.6 | 1179.3 | 1138.3 | 1106.2 | 1095.2 |
| 55° | 1450.0 | 1456.2 | 1450.8 | 1451.1 | 1438.4 | 1420.7 | 1390.9 | 1363.9 | 1335.2 | 1298.9 | 1283.7 |
| 57.5° | 1600.5 | 1637.1 | 1644.4 | 1662.7 | 1671.7 | 1681.2 | 1689.7 | 1673.6 | 1666.3 | 1639.3 | 1639.6 |
| 60° | 1837.6 | 1891.1 | 1937.5 | 1979.7 | 2014.3 | 2048.1 | 2083.5 | 2099.3 | 2116.7 | 2124.9 | 2152.7 |
| 62.5° | 2090.0 | 2140.9 | 2210.1 | 2266.7 | 2298.5 | 2342.4 | 2380.9 | 2405.9 | 2436.6 | 2469.2 | 2511.7 |
| 65° | 2152.5 | 2213.8 | 2257.4 | 2295.1 | 2326.6 | 2350.0 | 2371.1 | 2400.9 | 2426.5 | 2478.2 | 2528.3 |
| 67.5° | 1992.4 | 2041.3 | 2081.3 | 2118.4 | 2142.9 | 2162.6 | 2181.4 | 2201.1 | 2245.0 | 2292.0 | 2342.4 |
| 70° | 1710.2 | 1769.3 | 1835.4 | 1883.5 | 1895.6 | 1912.5 | 1930.5 | 1956.1 | 1978.0 | 2027.3 | 2065.5 |
| 72.5° | 1374.0 | 1459.0 | 1515.0 | 1581.6 | 1596.0 | 1621.6 | 1631.7 | 1651.7 | 1655.6 | 1682.4 | 1692.5 |
| 75° | 957.6 | 1055.0 | 1111.3 | 1160.2 | 1169.8 | 1155.7 | 1161.3 | 1090.7 | 1072.7 | 1058.1 | 1046.3 |
| 77.5° | 632.1 | 658.3 | 667.3 | 659.4 | 621.7 | 592.2 | 560.7 | 529.7 | 533.1 | 508.1 | 464.2 |
| 80° | 562.1 | 568.0 | 559.8 | 552.0 | 530.3 | 499.4 | 470.9 | 442.0 | 427.6 | 412.4 | 389.9 |
| 82.5° | 546.9 | 569.7 | 572.2 | 562.7 | 545.5 | 511.7 | 477.4 | 434.4 | 397.8 | 364.0 | 329.7 |
| 85° | 182.9 | 222.5 | 240.3 | 256.9 | 261.9 | 267.8 | 247.6 | 220.0 | 186.8 | 164.6 | 128.8 |
| 87.5° | 23.4 | 29.0 | 33.5 | 28.7 | 33.5 | 39.4 | 28.4 | 31.8 | 32.1 | 20.0 | 14.9 |
| 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: P149918

CATALOG NUMBER: VWM-E01-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 |
| 2.5° | 269.8 | 269.5 | 269.5 | 269.5 | 269.2 | 269.5 | 269.5 | 269.5 | 269.5 | 269.5 | 269.2 |
| 5° | 276.0 | 276.0 | 276.8 | 277.1 | 276.5 | 276.3 | 276.5 | 276.8 | 276.8 | 276.5 | 276.8 |
| 7.5° | 287.5 | 287.8 | 288.4 | 289.2 | 288.6 | 288.9 | 289.2 | 288.9 | 289.8 | 290.1 | 289.8 |
| 10° | 302.1 | 302.7 | 304.1 | 304.4 | 304.1 | 305.2 | 305.5 | 305.0 | 305.5 | 305.5 | 306.7 |
| 12.5° | 319.0 | 319.6 | 321.3 | 321.8 | 322.4 | 322.7 | 323.5 | 323.8 | 324.7 | 325.2 | 326.1 |
| 15° | 337.3 | 337.9 | 339.0 | 341.0 | 341.5 | 342.1 | 342.7 | 344.3 | 344.6 | 345.8 | 346.6 |
| 17.5° | 352.8 | 353.6 | 355.3 | 356.7 | 357.6 | 359.0 | 359.5 | 361.5 | 362.1 | 363.8 | 365.2 |
| 20° | 365.2 | 366.6 | 368.0 | 369.7 | 371.1 | 372.8 | 373.3 | 375.3 | 376.4 | 377.3 | 379.0 |
| 22.5° | 376.4 | 378.1 | 380.1 | 382.0 | 383.2 | 385.4 | 386.3 | 387.1 | 389.6 | 390.8 | 392.5 |
| 25° | 391.0 | 392.7 | 395.0 | 397.5 | 398.6 | 401.5 | 402.3 | 403.7 | 406.5 | 407.6 | 410.2 |
| 27.5° | 411.0 | 413.3 | 415.0 | 417.5 | 418.9 | 420.9 | 422.8 | 424.5 | 427.1 | 428.7 | 431.6 |
| 30° | 436.1 | 437.7 | 440.6 | 442.5 | 444.8 | 447.6 | 449.8 | 451.5 | 452.9 | 455.5 | 458.6 |
| 32.5° | 472.9 | 473.2 | 474.0 | 478.8 | 481.1 | 483.3 | 486.4 | 487.8 | 490.1 | 492.6 | 496.0 |
| 35° | 518.8 | 521.3 | 523.3 | 525.5 | 528.1 | 530.6 | 531.7 | 535.9 | 537.9 | 541.3 | 544.7 |
| 37.5° | 564.3 | 564.6 | 569.1 | 570.5 | 572.8 | 575.3 | 579.3 | 583.5 | 588.5 | 591.9 | 597.3 |
| 40° | 613.3 | 615.6 | 621.2 | 624.0 | 626.8 | 633.0 | 636.1 | 642.8 | 651.3 | 656.1 | 665.1 |
| 42.5° | 684.2 | 687.6 | 697.7 | 702.2 | 709.0 | 719.1 | 725.6 | 734.8 | 738.2 | 749.7 | 754.0 |
| 45° | 777.0 | 787.4 | 802.1 | 811.6 | 823.7 | 834.7 | 840.3 | 844.6 | 849.6 | 858.6 | 857.5 |
| 47.5° | 877.5 | 891.0 | 907.3 | 927.0 | 934.9 | 947.8 | 955.1 | 963.3 | 958.8 | 956.5 | 954.3 |
| 50° | 980.4 | 996.2 | 1017.9 | 1035.6 | 1047.7 | 1055.6 | 1061.7 | 1060.6 | 1051.1 | 1046.0 | 1031.9 |
| 52.5° | 1094.9 | 1104.2 | 1124.8 | 1140.0 | 1147.3 | 1149.0 | 1147.5 | 1139.1 | 1130.1 | 1114.1 | 1097.5 |
| 55° | 1270.5 | 1266.3 | 1274.4 | 1281.5 | 1279.2 | 1287.1 | 1266.8 | 1259.0 | 1236.7 | 1215.9 | 1193.7 |
| 57.5° | 1627.2 | 1632.8 | 1587.3 | 1566.7 | 1563.1 | 1570.4 | 1534.7 | 1530.2 | 1476.4 | 1469.7 | 1432.3 |
| 60° | 2148.8 | 2176.4 | 2140.6 | 2120.7 | 2066.7 | 2048.9 | 2009.0 | 1992.4 | 1940.9 | 1899.3 | 1846.7 |
| 62.5° | 2541.0 | 2566.0 | 2580.9 | 2552.5 | 2521.0 | 2474.6 | 2414.1 | 2347.1 | 2292.6 | 2228.7 | 2173.0 |
| 65° | 2576.4 | 2627.1 | 2661.4 | 2674.6 | 2652.4 | 2601.5 | 2526.9 | 2442.5 | 2359.0 | 2278.8 | 2208.4 |
| 67.5° | 2410.7 | 2456.0 | 2509.2 | 2556.7 | 2559.5 | 2526.3 | 2462.8 | 2377.0 | 2280.5 | 2181.4 | 2099.0 |
| 70° | 2126.0 | 2182.8 | 2229.3 | 2279.3 | 2314.2 | 2295.1 | 2263.3 | 2184.5 | 2084.4 | 2007.3 | 1912.5 |
| 72.5° | 1729.1 | 1753.0 | 1764.2 | 1813.5 | 1814.0 | 1779.1 | 1756.6 | 1713.0 | 1632.3 | 1577.7 | 1505.4 |
| 75° | 1009.7 | 957.1 | 901.1 | 852.4 | 812.8 | 796.2 | 722.5 | 710.1 | 660.6 | 629.9 | 584.9 |
| 77.5° | 416.4 | 369.4 | 308.9 | 258.5 | 208.7 | 186.2 | 153.6 | 139.3 | 120.7 | 112.5 | 107.2 |
| 80° | 357.0 | 312.6 | 267.0 | 223.4 | 184.6 | 145.7 | 113.4 | 88.1 | 69.2 | 58.8 | 54.6 |
| 82.5° | 291.5 | 264.7 | 232.9 | 209.3 | 178.9 | 149.9 | 126.6 | 98.2 | 73.4 | 54.0 | 41.4 |
| 85° | 105.2 | 86.4 | 69.5 | 63.9 | 50.9 | 41.9 | 35.2 | 30.1 | 24.8 | 19.7 | 17.4 |
| 87.5° | 11.8 | 11.3 | 6.5 | 6.2 | 7.0 | 5.1 | 5.9 | 5.3 | 4.5 | 3.9 | 4.2 |
| 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: P149918

CATALOG NUMBER: VWM-E01-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0° | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 | 268.4 |
| 2.5° | 269.2 | 269.2 | 269.5 | 269.5 | 269.8 | 270.1 | 270.6 | 270.4 | 270.4 | 270.6 | 270.6 |
| 5° | 276.8 | 277.7 | 277.4 | 277.4 | 277.4 | 277.7 | 278.0 | 276.8 | 275.7 | 274.6 | 274.0 |
| 7.5° | 290.1 | 290.6 | 291.2 | 290.6 | 291.2 | 290.9 | 290.3 | 287.2 | 283.6 | 279.1 | 276.0 |
| 10° | 307.2 | 307.2 | 307.8 | 307.5 | 308.6 | 307.8 | 306.1 | 299.1 | 291.2 | 281.6 | 274.6 |
| 12.5° | 325.8 | 327.7 | 326.9 | 327.2 | 329.4 | 327.2 | 323.2 | 312.8 | 298.8 | 283.3 | 270.9 |
| 15° | 347.7 | 348.6 | 349.1 | 348.3 | 349.7 | 347.7 | 340.7 | 324.1 | 303.6 | 281.9 | 263.6 |
| 17.5° | 365.7 | 366.0 | 366.3 | 366.9 | 368.8 | 366.6 | 354.5 | 332.0 | 304.7 | 275.4 | 251.2 |
| 20° | 379.8 | 381.2 | 382.3 | 382.3 | 385.1 | 381.8 | 365.7 | 335.9 | 301.0 | 264.7 | 235.5 |
| 22.5° | 394.4 | 395.6 | 397.0 | 397.2 | 400.9 | 397.5 | 375.0 | 335.1 | 291.5 | 249.5 | 217.2 |
| 25° | 412.4 | 413.6 | 414.7 | 416.1 | 421.2 | 416.4 | 384.3 | 331.7 | 278.2 | 231.5 | 197.5 |
| 27.5° | 433.2 | 435.8 | 436.6 | 438.9 | 444.8 | 437.5 | 392.2 | 326.6 | 263.6 | 210.7 | 176.7 |
| 30° | 461.1 | 464.2 | 465.3 | 468.4 | 476.6 | 460.5 | 396.7 | 317.9 | 245.0 | 189.6 | 154.5 |
| 32.5° | 498.5 | 502.7 | 506.1 | 509.5 | 518.8 | 483.6 | 397.2 | 305.2 | 223.4 | 166.0 | 133.1 |
| 35° | 547.5 | 553.9 | 556.5 | 558.7 | 567.4 | 508.6 | 394.7 | 286.4 | 196.9 | 141.8 | 116.2 |
| 37.5° | 602.3 | 608.8 | 610.5 | 611.6 | 613.3 | 530.0 | 388.5 | 257.7 | 167.1 | 120.7 | 102.7 |
| 40° | 669.8 | 675.5 | 677.7 | 676.0 | 667.0 | 546.6 | 374.7 | 224.2 | 138.1 | 106.3 | 94.2 |
| 42.5° | 752.3 | 760.7 | 761.6 | 754.0 | 724.1 | 555.9 | 347.2 | 184.8 | 115.3 | 95.9 | 87.8 |
| 45° | 854.4 | 853.8 | 849.1 | 843.7 | 786.3 | 552.3 | 308.6 | 150.5 | 101.0 | 87.8 | 81.9 |
| 47.5° | 946.1 | 936.5 | 929.2 | 913.5 | 841.2 | 530.9 | 258.8 | 124.6 | 92.3 | 81.6 | 76.8 |
| 50° | 1021.2 | 1003.8 | 988.3 | 971.2 | 882.0 | 492.9 | 209.3 | 105.8 | 84.1 | 76.2 | 72.0 |
| 52.5° | 1080.6 | 1059.5 | 1041.5 | 1024.6 | 921.4 | 450.7 | 171.6 | 92.0 | 76.2 | 70.9 | 66.7 |
| 55° | 1173.4 | 1152.3 | 1123.6 | 1105.1 | 981.6 | 411.9 | 147.1 | 81.0 | 68.6 | 65.3 | 61.0 |
| 57.5° | 1408.3 | 1389.8 | 1355.4 | 1307.3 | 1136.3 | 397.2 | 133.4 | 72.6 | 62.5 | 60.5 | 57.1 |
| 60° | 1818.5 | 1788.4 | 1743.7 | 1694.7 | 1450.8 | 407.1 | 122.4 | 66.7 | 58.2 | 56.5 | 54.0 |
| 62.5° | 2128.0 | 2075.1 | 2024.5 | 1979.2 | 1702.3 | 406.8 | 108.0 | 62.2 | 55.1 | 54.3 | 51.8 |
| 65° | 2140.6 | 2086.9 | 2036.0 | 1988.4 | 1708.0 | 362.1 | 91.2 | 58.2 | 54.6 | 54.3 | 50.1 |
| 67.5° | 2027.0 | 1968.7 | 1919.5 | 1859.6 | 1581.1 | 283.0 | 73.1 | 55.7 | 56.8 | 56.3 | 49.5 |
| 70° | 1841.3 | 1765.3 | 1724.8 | 1665.8 | 1391.5 | 198.1 | 60.2 | 56.5 | 61.6 | 59.9 | 50.4 |
| 72.5° | 1445.2 | 1387.8 | 1326.2 | 1285.1 | 1089.3 | 125.2 | 50.6 | 57.1 | 63.6 | 60.8 | 52.6 |
| 75° | 537.9 | 553.4 | 528.1 | 519.1 | 553.4 | 73.4 | 45.0 | 53.2 | 56.8 | 52.6 | 47.8 |
| 77.5° | 108.6 | 103.8 | 98.5 | 97.3 | 125.8 | 45.3 | 41.4 | 46.1 | 43.6 | 38.5 | 38.8 |
| 80° | 52.0 | 50.6 | 49.0 | 48.7 | 46.7 | 37.7 | 38.3 | 39.4 | 32.9 | 29.8 | 31.8 |
| 82.5° | 34.6 | 32.6 | 32.1 | 30.9 | 31.5 | 33.8 | 36.3 | 33.8 | 25.3 | 23.6 | 28.7 |
| 85° | 16.0 | 15.5 | 15.2 | 15.2 | 16.9 | 30.4 | 30.1 | 24.8 | 17.4 | 16.9 | 28.7 |
| 87.5° | 3.9 | 3.9 | 4.2 | 3.9 | 4.5 | 9.0 | 7.9 | 7.6 | 6.5 | 7.3 | 13.5 |
| 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: P149918

CATALOG NUMBER: VWM-E01-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 165° | 175° | 180° |
|-------|-------|-------|-------|
| 0° | 268.4 | 268.4 | 268.4 |
| 2.5° | 270.4 | 270.6 | 270.4 |
| 5° | 272.9 | 272.9 | 272.9 |
| 7.5° | 272.9 | 272.0 | 271.8 |
| 10° | 269.0 | 266.4 | 266.4 |
| 12.5° | 262.2 | 258.0 | 257.4 |
| 15° | 249.5 | 243.9 | 243.1 |
| 17.5° | 233.5 | 225.9 | 224.5 |
| 20° | 215.5 | 205.9 | 204.2 |
| 22.5° | 195.8 | 184.8 | 184.0 |
| 25° | 176.4 | 165.1 | 162.9 |
| 27.5° | 154.7 | 143.8 | 142.6 |
| 30° | 133.1 | 123.5 | 122.9 |
| 32.5° | 114.8 | 108.9 | 107.7 |
| 35° | 101.8 | 98.5 | 97.1 |
| 37.5° | 93.4 | 90.9 | 90.6 |
| 40° | 86.9 | 84.7 | 84.4 |
| 42.5° | 81.6 | 79.6 | 79.3 |
| 45° | 76.2 | 74.6 | 74.0 |
| 47.5° | 70.9 | 69.2 | 68.9 |
| 50° | 66.1 | 63.9 | 63.6 |
| 52.5° | 61.6 | 59.4 | 58.8 |
| 55° | 57.4 | 55.1 | 55.1 |
| 57.5° | 53.7 | 51.5 | 51.2 |
| 60° | 50.4 | 48.1 | 47.8 |
| 62.5° | 47.8 | 45.0 | 44.7 |
| 65° | 45.9 | 43.0 | 42.5 |
| 67.5° | 44.7 | 41.4 | 40.5 |
| 70° | 46.7 | 40.5 | 39.1 |
| 72.5° | 47.0 | 39.7 | 37.7 |
| 75° | 45.3 | 37.4 | 36.0 |
| 77.5° | 39.7 | 33.5 | 32.1 |
| 80° | 34.3 | 25.9 | 23.9 |
| 82.5° | 32.6 | 21.1 | 18.3 |
| 85° | 25.3 | 13.8 | 12.9 |
| 87.5° | 14.3 | 7.6 | 6.2 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)