

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: P142020

Luminaire Tested: **ECM-E01-LED-E1-T4**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P142020  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33685)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-E01-LED-E1-T4  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2875.8 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

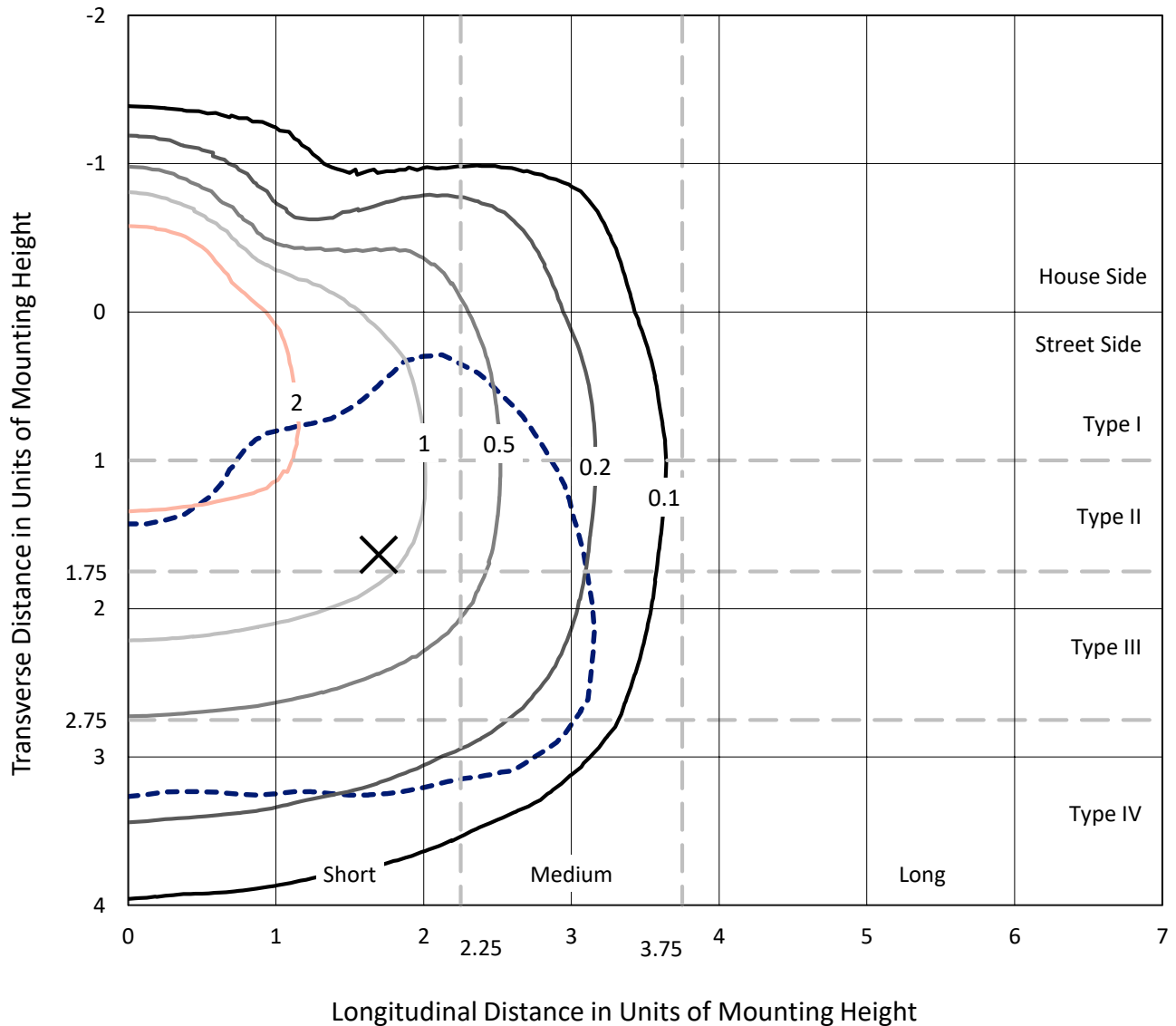
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P142020  
 CATALOG NUMBER: ECM-E01-LED-E1-T4

### Iso-Footcandle Lines of Horizontal Illumination

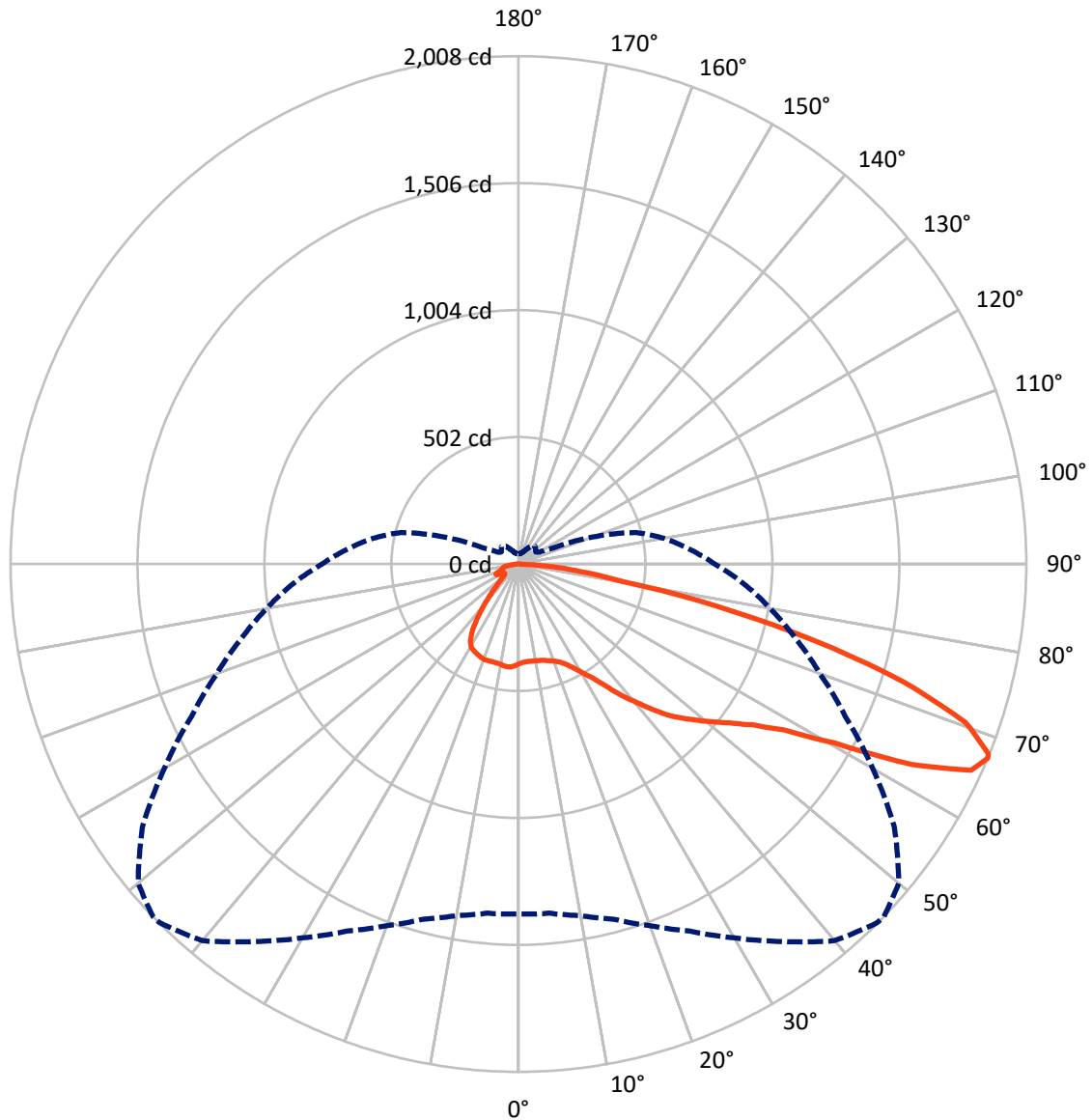
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P142020  
CATALOG NUMBER: ECM-E01-LED-E1-T4

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P142020

CATALOG NUMBER: ECM-E01-LED-E1-T4

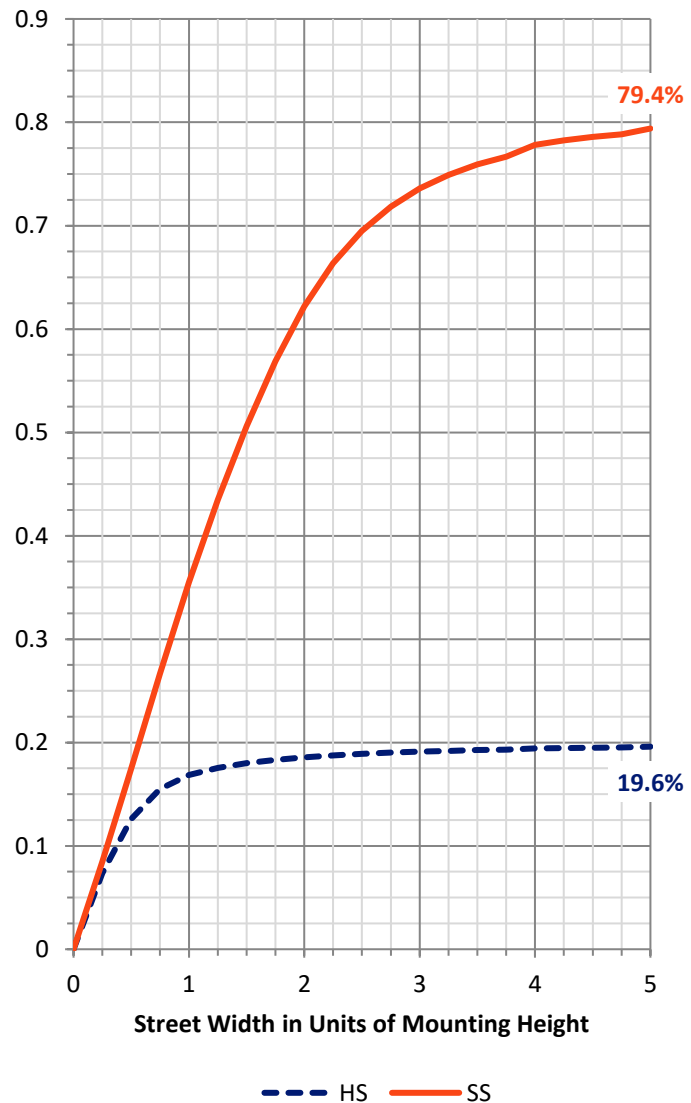
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 571.5    | 0.0    | 571.5  |
|                    | % Fixture | 19.9     | 0.0    | 19.9   |
| <b>Street Side</b> | Lumens    | 2304.3   | 0.0    | 2304.3 |
|                    | % Fixture | 80.1     | 0.0    | 80.1   |
| <b>Total</b>       | Lumens    | 2875.8   | 0.0    | 2875.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.9   | 1.3       |
| 10°-20°   | 113.2  | 3.9       |
| 20°-30°   | 190.3  | 6.6       |
| 30°-40°   | 284.6  | 9.9       |
| 40°-50°   | 370.7  | 12.9      |
| 50°-60°   | 507.7  | 17.7      |
| 60°-70°   | 802.6  | 27.9      |
| 70°-80°   | 497.9  | 17.3      |
| 80°-90°   | 70.9   | 2.5       |
| 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°    | 2875.8 | 100.0     |
| 0°-180°   | 2875.8 | 100.0     |



REPORT NUMBER: P142020

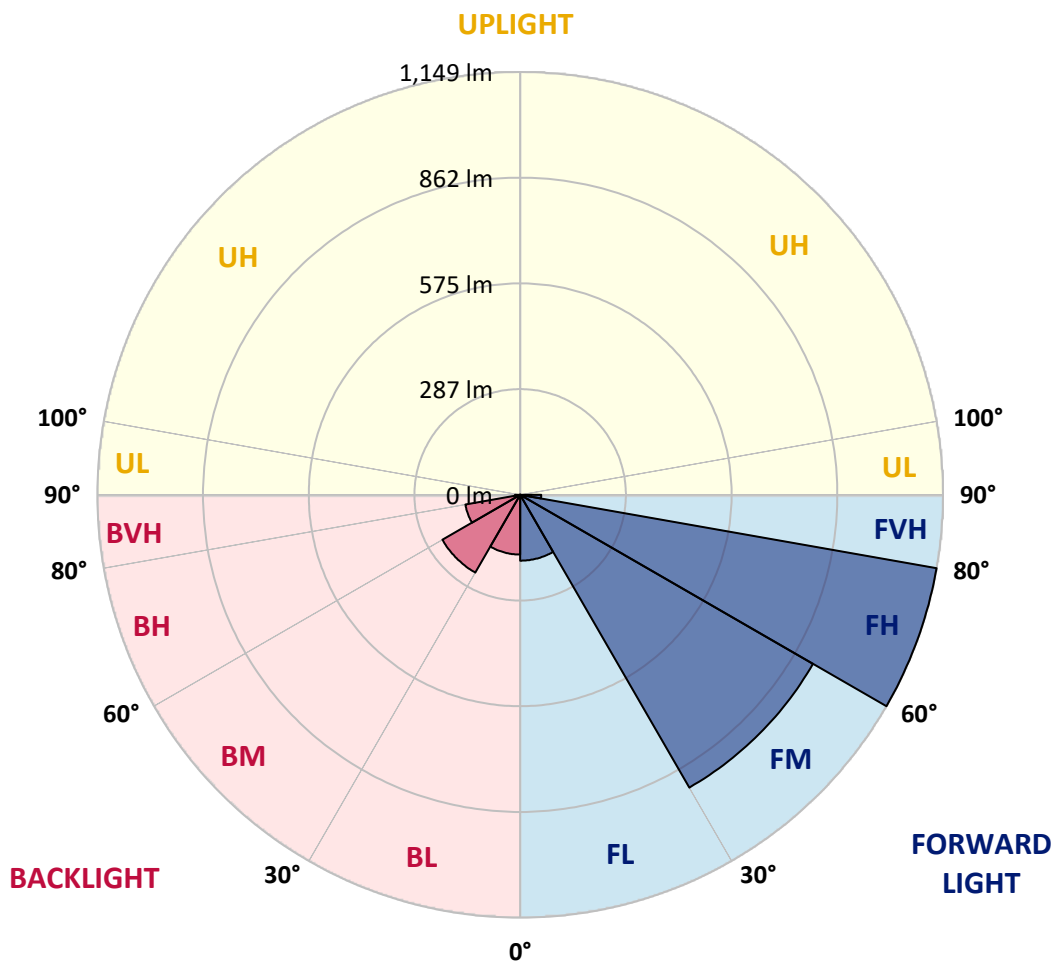
CATALOG NUMBER: ECM-E01-LED-E1-T4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 179.1  | 6.2       |                         |      |         |
| FM   | (30°-60°)   | 918.9  | 32.0      |                         |      |         |
| FH   | (60°-80°)   | 1149.2 | 40.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 57.1   | 2.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 162.3  | 5.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 244.1  | 8.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 151.3  | 5.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 13.8   | 0.5       |                         |      | 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 IV Short





REPORT NUMBER: P142020

CATALOG NUMBER: ECM-E01-LED-E1-T4

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 46°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 394.0  | 394.0  | 394.0  | 394.0  | 394.0  | 394.0  | 394.0  | 394.0  | 394.0  | 394.0  | 394.0  |
| 2.5°  | 385.3  | 386.3  | 386.0  | 385.7  | 386.0  | 386.3  | 386.7  | 387.7  | 388.0  | 388.3  | 388.7  |
| 5°    | 378.3  | 379.3  | 379.0  | 379.7  | 380.0  | 381.3  | 382.3  | 384.0  | 385.0  | 386.3  | 387.0  |
| 7.5°  | 376.3  | 377.0  | 377.0  | 377.7  | 378.0  | 379.3  | 381.0  | 383.0  | 385.0  | 387.0  | 387.7  |
| 10°   | 381.7  | 382.0  | 382.0  | 381.7  | 382.0  | 382.7  | 383.3  | 385.0  | 386.7  | 388.3  | 389.0  |
| 12.5° | 394.3  | 393.3  | 393.0  | 392.0  | 392.3  | 391.0  | 391.0  | 390.7  | 390.7  | 391.0  | 391.0  |
| 15°   | 407.7  | 407.0  | 406.3  | 404.7  | 404.7  | 402.7  | 402.0  | 400.7  | 397.3  | 396.0  | 395.7  |
| 17.5° | 419.7  | 419.0  | 417.7  | 416.3  | 415.7  | 413.0  | 412.3  | 410.0  | 406.0  | 403.0  | 402.0  |
| 20°   | 434.0  | 432.3  | 429.3  | 428.7  | 427.0  | 424.0  | 423.0  | 420.0  | 414.7  | 410.3  | 410.0  |
| 22.5° | 456.0  | 453.3  | 450.3  | 448.0  | 443.7  | 440.7  | 438.0  | 434.0  | 427.7  | 422.7  | 421.3  |
| 25°   | 478.0  | 477.0  | 474.3  | 471.0  | 468.0  | 464.7  | 461.3  | 455.3  | 447.0  | 440.7  | 439.3  |
| 27.5° | 509.0  | 506.7  | 503.3  | 498.0  | 496.3  | 490.7  | 488.0  | 483.0  | 474.7  | 466.7  | 465.3  |
| 30°   | 541.3  | 539.0  | 533.7  | 529.0  | 528.0  | 522.0  | 520.3  | 515.0  | 507.7  | 499.7  | 498.7  |
| 32.5° | 578.3  | 576.0  | 572.0  | 569.3  | 565.7  | 562.3  | 558.3  | 553.3  | 544.0  | 537.3  | 536.0  |
| 35°   | 625.7  | 623.7  | 619.0  | 621.0  | 617.7  | 616.7  | 614.3  | 606.0  | 595.7  | 587.7  | 589.0  |
| 37.5° | 663.0  | 662.7  | 663.7  | 662.7  | 667.0  | 671.3  | 671.3  | 672.0  | 667.0  | 658.3  | 656.7  |
| 40°   | 698.0  | 697.7  | 700.3  | 703.3  | 715.0  | 722.0  | 730.0  | 733.0  | 727.7  | 721.0  | 718.7  |
| 42.5° | 730.7  | 730.0  | 733.7  | 744.7  | 759.0  | 772.0  | 785.7  | 797.3  | 800.0  | 792.7  | 791.0  |
| 45°   | 763.0  | 764.0  | 768.7  | 781.0  | 800.0  | 817.0  | 840.3  | 854.0  | 862.7  | 858.7  | 861.3  |
| 47.5° | 802.0  | 803.0  | 808.0  | 822.7  | 839.3  | 860.7  | 888.0  | 911.3  | 921.7  | 921.7  | 918.3  |
| 50°   | 848.3  | 853.0  | 858.3  | 868.3  | 887.7  | 908.7  | 942.0  | 965.3  | 982.0  | 981.3  | 978.7  |
| 52.5° | 910.0  | 911.0  | 919.7  | 927.7  | 944.3  | 965.7  | 995.7  | 1027.7 | 1048.7 | 1046.7 | 1043.7 |
| 55°   | 993.0  | 989.0  | 994.7  | 1002.3 | 1020.3 | 1039.0 | 1071.7 | 1108.7 | 1130.0 | 1123.7 | 1121.7 |
| 57.5° | 1097.7 | 1094.3 | 1098.3 | 1107.7 | 1130.3 | 1145.7 | 1172.0 | 1206.0 | 1236.0 | 1241.3 | 1236.7 |
| 60°   | 1248.7 | 1248.7 | 1256.7 | 1276.7 | 1299.7 | 1322.7 | 1356.3 | 1397.3 | 1428.3 | 1436.0 | 1435.7 |
| 62.5° | 1427.7 | 1439.0 | 1440.7 | 1466.7 | 1510.7 | 1550.3 | 1602.7 | 1675.0 | 1721.3 | 1754.3 | 1745.7 |
| 65°   | 1456.3 | 1460.0 | 1474.7 | 1515.0 | 1574.7 | 1645.0 | 1726.3 | 1821.3 | 1917.7 | 1965.3 | 1966.7 |
| 67°   | 1384.3 | 1385.7 | 1411.3 | 1453.7 | 1522.0 | 1601.3 | 1706.7 | 1822.3 | 1944.3 | 2006.0 | 2008.0 |
| 67.5° | 1362.0 | 1359.3 | 1382.3 | 1426.7 | 1501.3 | 1590.7 | 1689.7 | 1811.3 | 1937.3 | 2003.3 | 2004.3 |
| 70°   | 1212.3 | 1213.7 | 1231.7 | 1281.0 | 1360.0 | 1443.7 | 1554.3 | 1679.3 | 1812.0 | 1872.3 | 1875.3 |
| 72.5° | 1045.3 | 1036.7 | 1053.0 | 1105.7 | 1143.3 | 1225.0 | 1326.7 | 1421.0 | 1537.7 | 1594.7 | 1593.3 |
| 75°   | 797.3  | 773.3  | 802.0  | 832.7  | 853.7  | 934.7  | 998.0  | 1063.0 | 1170.7 | 1214.0 | 1211.7 |
| 77.5° | 429.7  | 428.7  | 460.0  | 484.0  | 515.3  | 588.3  | 644.0  | 685.0  | 775.7  | 797.0  | 799.7  |
| 80°   | 233.3  | 242.0  | 260.7  | 287.3  | 312.7  | 347.7  | 380.0  | 405.7  | 435.3  | 421.7  | 418.7  |
| 82.5° | 140.7  | 155.0  | 183.7  | 204.0  | 214.0  | 229.7  | 252.7  | 267.3  | 279.0  | 253.7  | 248.7  |
| 85°   | 22.3   | 40.3   | 103.7  | 124.0  | 134.7  | 142.0  | 147.0  | 156.7  | 143.0  | 134.0  | 136.3  |
| 87.5° | 7.3    | 8.3    | 16.0   | 35.3   | 31.0   | 21.3   | 28.0   | 40.7   | 19.3   | 10.3   | 10.0   |
| 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: P142020

CATALOG NUMBER: ECM-E01-LED-E1-T4

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°   | 90°   | 95°   | 100°  |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 394.0  | 394.0  | 394.0  | 394.0  | 394.0  | 394.0  | 394.0  | 394.0 | 394.0 | 394.0 | 394.0 |
| 2.5°  | 389.0  | 389.3  | 390.3  | 391.7  | 392.3  | 394.0  | 394.0  | 395.3 | 395.3 | 396.3 | 397.3 |
| 5°    | 388.0  | 389.7  | 391.0  | 393.0  | 394.0  | 396.3  | 397.3  | 399.3 | 400.3 | 401.7 | 403.0 |
| 7.5°  | 389.7  | 392.0  | 393.7  | 396.0  | 397.7  | 400.0  | 401.0  | 402.7 | 403.7 | 405.3 | 406.0 |
| 10°   | 391.0  | 393.3  | 395.3  | 398.0  | 399.3  | 401.0  | 402.0  | 403.3 | 403.7 | 404.7 | 405.3 |
| 12.5° | 392.7  | 393.7  | 395.3  | 397.7  | 399.0  | 400.0  | 401.0  | 402.0 | 403.0 | 403.0 | 403.0 |
| 15°   | 395.0  | 394.0  | 394.3  | 396.3  | 397.7  | 398.3  | 399.3  | 400.0 | 400.3 | 400.3 | 399.7 |
| 17.5° | 400.0  | 397.3  | 395.7  | 395.7  | 396.3  | 397.0  | 397.0  | 396.0 | 395.3 | 394.3 | 393.0 |
| 20°   | 407.3  | 403.0  | 399.7  | 398.0  | 396.7  | 395.0  | 392.3  | 389.0 | 386.0 | 383.3 | 381.7 |
| 22.5° | 417.7  | 413.3  | 409.3  | 405.7  | 401.3  | 395.7  | 390.0  | 383.0 | 377.3 | 373.0 | 371.3 |
| 25°   | 437.0  | 430.7  | 427.7  | 422.0  | 415.3  | 406.3  | 397.7  | 388.0 | 381.3 | 375.3 | 372.7 |
| 27.5° | 463.0  | 458.0  | 451.3  | 448.3  | 439.7  | 429.3  | 419.7  | 408.0 | 398.7 | 391.3 | 386.3 |
| 30°   | 496.0  | 492.7  | 487.0  | 482.0  | 473.7  | 464.3  | 450.0  | 437.0 | 420.7 | 407.7 | 400.3 |
| 32.5° | 534.0  | 529.0  | 524.0  | 517.7  | 511.7  | 499.3  | 486.0  | 466.3 | 443.7 | 421.3 | 407.7 |
| 35°   | 581.7  | 576.7  | 573.3  | 563.3  | 553.3  | 540.0  | 522.0  | 498.7 | 467.0 | 437.0 | 413.7 |
| 37.5° | 647.3  | 636.7  | 620.3  | 606.0  | 588.0  | 567.7  | 547.3  | 519.3 | 484.0 | 445.0 | 413.0 |
| 40°   | 704.3  | 688.7  | 670.3  | 645.7  | 620.3  | 593.7  | 569.7  | 539.3 | 498.0 | 451.7 | 408.3 |
| 42.5° | 778.3  | 751.3  | 720.3  | 687.7  | 653.0  | 621.0  | 591.3  | 556.7 | 508.3 | 452.0 | 397.3 |
| 45°   | 845.0  | 811.7  | 770.7  | 726.3  | 684.0  | 645.0  | 611.0  | 572.7 | 517.0 | 450.7 | 384.7 |
| 47.5° | 904.3  | 865.3  | 815.3  | 762.0  | 712.0  | 668.0  | 630.7  | 590.3 | 528.3 | 455.0 | 380.0 |
| 50°   | 961.7  | 917.0  | 860.7  | 796.0  | 740.3  | 692.3  | 653.3  | 610.0 | 547.3 | 469.7 | 387.3 |
| 52.5° | 1023.0 | 968.7  | 905.0  | 832.0  | 771.3  | 721.7  | 678.0  | 633.7 | 570.0 | 489.3 | 400.7 |
| 55°   | 1098.0 | 1036.3 | 963.7  | 883.0  | 813.3  | 758.0  | 708.7  | 662.0 | 597.0 | 513.7 | 416.3 |
| 57.5° | 1198.0 | 1135.7 | 1052.0 | 959.0  | 886.0  | 820.3  | 761.0  | 708.3 | 638.0 | 547.3 | 439.7 |
| 60°   | 1390.7 | 1313.7 | 1202.3 | 1101.3 | 1022.3 | 945.0  | 873.3  | 801.3 | 716.7 | 615.3 | 499.7 |
| 62.5° | 1700.0 | 1592.7 | 1454.7 | 1314.0 | 1207.3 | 1105.0 | 1010.3 | 916.7 | 811.0 | 697.3 | 571.0 |
| 65°   | 1914.0 | 1781.3 | 1608.0 | 1431.7 | 1287.3 | 1162.3 | 1049.3 | 938.0 | 820.3 | 712.0 | 602.0 |
| 67°   | 1963.0 | 1814.7 | 1617.3 | 1426.0 | 1269.0 | 1133.3 | 1010.3 | 894.3 | 776.0 | 677.7 | 583.7 |
| 67.5° | 1961.0 | 1813.0 | 1610.0 | 1414.0 | 1256.7 | 1123.0 | 999.0  | 877.0 | 760.7 | 664.3 | 574.7 |
| 70°   | 1842.3 | 1693.7 | 1489.7 | 1294.7 | 1143.0 | 1010.0 | 885.0  | 778.7 | 660.0 | 582.0 | 514.7 |
| 72.5° | 1561.0 | 1431.7 | 1267.0 | 1091.7 | 961.7  | 842.7  | 742.7  | 638.3 | 535.3 | 483.3 | 430.3 |
| 75°   | 1187.0 | 1072.3 | 921.3  | 793.0  | 694.0  | 611.3  | 511.0  | 442.3 | 370.0 | 334.3 | 315.3 |
| 77.5° | 784.3  | 652.7  | 548.3  | 426.0  | 353.3  | 288.3  | 227.3  | 180.3 | 150.7 | 158.3 | 173.0 |
| 80°   | 415.0  | 329.3  | 243.7  | 188.7  | 145.7  | 113.3  | 90.0   | 67.3  | 49.0  | 57.3  | 72.0  |
| 82.5° | 226.0  | 192.7  | 142.3  | 113.3  | 92.7   | 76.7   | 59.0   | 41.3  | 30.7  | 34.0  | 49.0  |
| 85°   | 129.0  | 113.3  | 88.0   | 68.7   | 60.0   | 49.0   | 33.7   | 22.7  | 22.0  | 23.7  | 30.3  |
| 87.5° | 21.3   | 28.7   | 23.3   | 16.0   | 18.0   | 17.7   | 15.7   | 12.0  | 9.0   | 12.7  | 16.3  |
| 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: P142020

CATALOG NUMBER: ECM-E01-LED-E1-T4

**CANDELA DISTRIBUTION (continued):**

|       | 105°  | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 |
| 2.5°  | 398.0 | 399.0 | 400.3 | 400.7 | 400.3 | 401.3 | 403.0 | 404.3 | 403.3 | 402.7 | 404.3 |
| 5°    | 404.3 | 405.0 | 406.7 | 406.7 | 407.0 | 407.7 | 408.7 | 409.7 | 408.3 | 408.3 | 409.0 |
| 7.5°  | 407.0 | 407.0 | 408.7 | 408.0 | 408.0 | 407.7 | 408.7 | 409.0 | 407.0 | 406.7 | 407.0 |
| 10°   | 405.3 | 405.3 | 406.0 | 404.7 | 404.3 | 404.0 | 404.0 | 404.3 | 402.3 | 401.7 | 402.7 |
| 12.5° | 403.0 | 403.0 | 402.3 | 401.7 | 401.0 | 400.3 | 401.0 | 401.3 | 400.0 | 400.0 | 400.3 |
| 15°   | 399.0 | 398.0 | 397.7 | 397.7 | 398.0 | 398.3 | 399.7 | 400.7 | 399.7 | 399.0 | 399.0 |
| 17.5° | 392.3 | 391.7 | 392.7 | 394.7 | 397.0 | 398.7 | 400.7 | 401.3 | 399.0 | 396.3 | 394.3 |
| 20°   | 382.3 | 384.0 | 387.7 | 393.3 | 398.3 | 401.0 | 401.0 | 398.7 | 393.3 | 388.0 | 385.3 |
| 22.5° | 372.0 | 376.7 | 384.7 | 393.3 | 399.3 | 400.3 | 396.7 | 391.7 | 384.3 | 378.7 | 373.7 |
| 25°   | 373.3 | 379.0 | 387.0 | 394.3 | 398.3 | 396.7 | 390.0 | 383.7 | 375.0 | 369.0 | 361.7 |
| 27.5° | 387.3 | 392.7 | 396.7 | 399.0 | 397.7 | 392.3 | 384.7 | 376.0 | 366.3 | 358.0 | 349.3 |
| 30°   | 398.7 | 401.0 | 400.7 | 398.7 | 393.7 | 385.3 | 376.3 | 366.0 | 354.3 | 345.3 | 334.0 |
| 32.5° | 400.7 | 396.3 | 389.7 | 382.3 | 375.7 | 366.3 | 356.0 | 344.0 | 331.0 | 319.3 | 308.0 |
| 35°   | 397.0 | 380.7 | 366.0 | 351.3 | 341.3 | 329.7 | 320.7 | 306.7 | 292.3 | 282.3 | 274.0 |
| 37.5° | 383.3 | 355.0 | 331.7 | 311.0 | 296.3 | 283.0 | 269.3 | 255.7 | 243.7 | 239.0 | 236.7 |
| 40°   | 366.0 | 323.3 | 287.7 | 259.0 | 243.3 | 230.3 | 216.3 | 205.3 | 199.7 | 195.3 | 193.7 |
| 42.5° | 340.7 | 287.3 | 243.0 | 212.3 | 192.3 | 180.3 | 166.7 | 160.7 | 158.0 | 159.0 | 157.7 |
| 45°   | 317.0 | 249.7 | 194.0 | 160.0 | 146.3 | 135.0 | 128.3 | 125.7 | 124.3 | 123.7 | 124.7 |
| 47.5° | 300.3 | 220.7 | 156.3 | 121.7 | 110.3 | 102.3 | 99.7  | 98.7  | 98.3  | 97.0  | 96.7  |
| 50°   | 296.3 | 203.7 | 128.0 | 94.7  | 86.0  | 81.7  | 80.3  | 79.3  | 78.7  | 77.7  | 75.3  |
| 52.5° | 301.0 | 199.0 | 114.0 | 81.3  | 74.0  | 70.7  | 69.7  | 68.0  | 67.3  | 64.7  | 61.7  |
| 55°   | 309.0 | 200.7 | 109.7 | 77.7  | 70.3  | 66.7  | 65.3  | 64.7  | 62.3  | 59.3  | 55.7  |
| 57.5° | 325.7 | 211.0 | 111.7 | 78.7  | 71.0  | 67.7  | 67.0  | 66.3  | 63.3  | 59.0  | 54.3  |
| 60°   | 374.0 | 241.0 | 122.0 | 85.7  | 76.3  | 74.0  | 74.3  | 73.0  | 68.7  | 63.0  | 56.0  |
| 62.5° | 448.7 | 287.7 | 141.0 | 94.3  | 85.0  | 85.0  | 87.0  | 86.0  | 79.3  | 70.0  | 60.0  |
| 65°   | 487.3 | 315.7 | 149.0 | 97.0  | 87.7  | 92.0  | 98.3  | 97.3  | 87.7  | 73.7  | 60.3  |
| 67°   | 481.3 | 310.3 | 144.3 | 93.0  | 82.7  | 88.3  | 94.7  | 95.0  | 84.3  | 70.3  | 57.7  |
| 67.5° | 475.7 | 306.7 | 142.0 | 91.3  | 81.3  | 87.0  | 93.0  | 92.0  | 83.0  | 69.0  | 57.0  |
| 70°   | 427.3 | 269.3 | 126.7 | 85.3  | 75.3  | 77.0  | 78.7  | 77.3  | 70.3  | 61.0  | 52.7  |
| 72.5° | 369.0 | 223.7 | 111.7 | 81.7  | 72.0  | 69.3  | 69.3  | 67.0  | 62.3  | 56.0  | 50.0  |
| 75°   | 281.3 | 174.0 | 98.0  | 77.7  | 68.0  | 64.0  | 63.3  | 61.7  | 57.7  | 53.0  | 47.7  |
| 77.5° | 171.7 | 124.7 | 85.0  | 71.7  | 63.0  | 59.7  | 60.0  | 59.0  | 55.0  | 50.7  | 45.7  |
| 80°   | 86.0  | 80.7  | 71.3  | 62.3  | 57.0  | 53.7  | 54.0  | 52.0  | 48.7  | 45.3  | 41.3  |
| 82.5° | 52.7  | 55.7  | 50.0  | 47.3  | 44.0  | 40.3  | 31.3  | 36.7  | 35.7  | 32.7  | 31.0  |
| 85°   | 35.0  | 34.7  | 31.3  | 27.7  | 25.3  | 22.0  | 19.7  | 20.0  | 22.0  | 22.7  | 22.7  |
| 87.5° | 17.0  | 16.3  | 15.0  | 14.0  | 13.3  | 11.0  | 10.3  | 11.7  | 11.7  | 12.3  | 12.0  |
| 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: P142020

CATALOG NUMBER: ECM-E01-LED-E1-T4

**CANDELA DISTRIBUTION (continued):**

|       | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|
| 0°    | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 |
| 2.5°  | 404.7 | 405.3 | 405.0 | 406.0 | 405.0 |
| 5°    | 409.3 | 409.3 | 409.7 | 410.0 | 409.7 |
| 7.5°  | 407.0 | 406.7 | 407.3 | 408.0 | 407.7 |
| 10°   | 402.7 | 403.0 | 403.7 | 404.7 | 404.7 |
| 12.5° | 401.0 | 401.3 | 402.7 | 403.7 | 403.7 |
| 15°   | 399.7 | 400.0 | 400.7 | 402.0 | 401.0 |
| 17.5° | 393.7 | 392.3 | 392.3 | 393.3 | 392.3 |
| 20°   | 383.0 | 381.0 | 381.0 | 380.7 | 380.3 |
| 22.5° | 370.3 | 365.3 | 364.0 | 362.3 | 362.7 |
| 25°   | 354.7 | 348.0 | 344.3 | 342.3 | 341.7 |
| 27.5° | 342.0 | 334.3 | 330.7 | 327.7 | 326.7 |
| 30°   | 326.0 | 317.3 | 314.3 | 312.7 | 312.0 |
| 32.5° | 302.7 | 295.0 | 291.0 | 290.0 | 288.0 |
| 35°   | 267.3 | 264.0 | 262.3 | 260.0 | 260.3 |
| 37.5° | 232.0 | 231.0 | 227.0 | 228.3 | 227.0 |
| 40°   | 194.0 | 193.7 | 194.3 | 193.3 | 195.7 |
| 42.5° | 158.3 | 157.3 | 159.0 | 158.0 | 159.0 |
| 45°   | 122.7 | 124.7 | 127.0 | 126.0 | 127.3 |
| 47.5° | 94.0  | 94.3  | 93.7  | 94.3  | 95.0  |
| 50°   | 72.3  | 71.7  | 71.0  | 69.7  | 70.3  |
| 52.5° | 59.7  | 57.3  | 55.7  | 54.7  | 54.3  |
| 55°   | 52.7  | 50.3  | 49.0  | 47.7  | 47.7  |
| 57.5° | 50.7  | 47.7  | 45.7  | 44.7  | 44.3  |
| 60°   | 51.0  | 47.0  | 44.3  | 42.7  | 42.3  |
| 62.5° | 52.3  | 47.0  | 43.3  | 41.7  | 41.0  |
| 65°   | 52.0  | 46.3  | 42.7  | 41.0  | 40.3  |
| 67°   | 50.3  | 45.3  | 42.3  | 40.7  | 40.3  |
| 67.5° | 49.7  | 45.0  | 42.3  | 40.7  | 40.0  |
| 70°   | 47.3  | 44.0  | 41.7  | 40.0  | 39.3  |
| 72.5° | 45.3  | 42.7  | 40.0  | 38.7  | 38.0  |
| 75°   | 43.3  | 40.7  | 38.3  | 37.0  | 36.7  |
| 77.5° | 41.3  | 38.3  | 36.7  | 35.0  | 33.7  |
| 80°   | 37.7  | 34.3  | 32.0  | 29.3  | 28.7  |
| 82.5° | 31.0  | 28.3  | 26.0  | 23.7  | 23.3  |
| 85°   | 23.0  | 22.0  | 20.0  | 18.0  | 18.0  |
| 87.5° | 12.7  | 14.0  | 12.3  | 11.3  | 10.7  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)