

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: STREETWORKS

Report Number: P141778

Luminaire Tested: **CEM-E01-LED-E-U-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P141778
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33682)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-E01-LED-E-U-T2-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2488.2 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

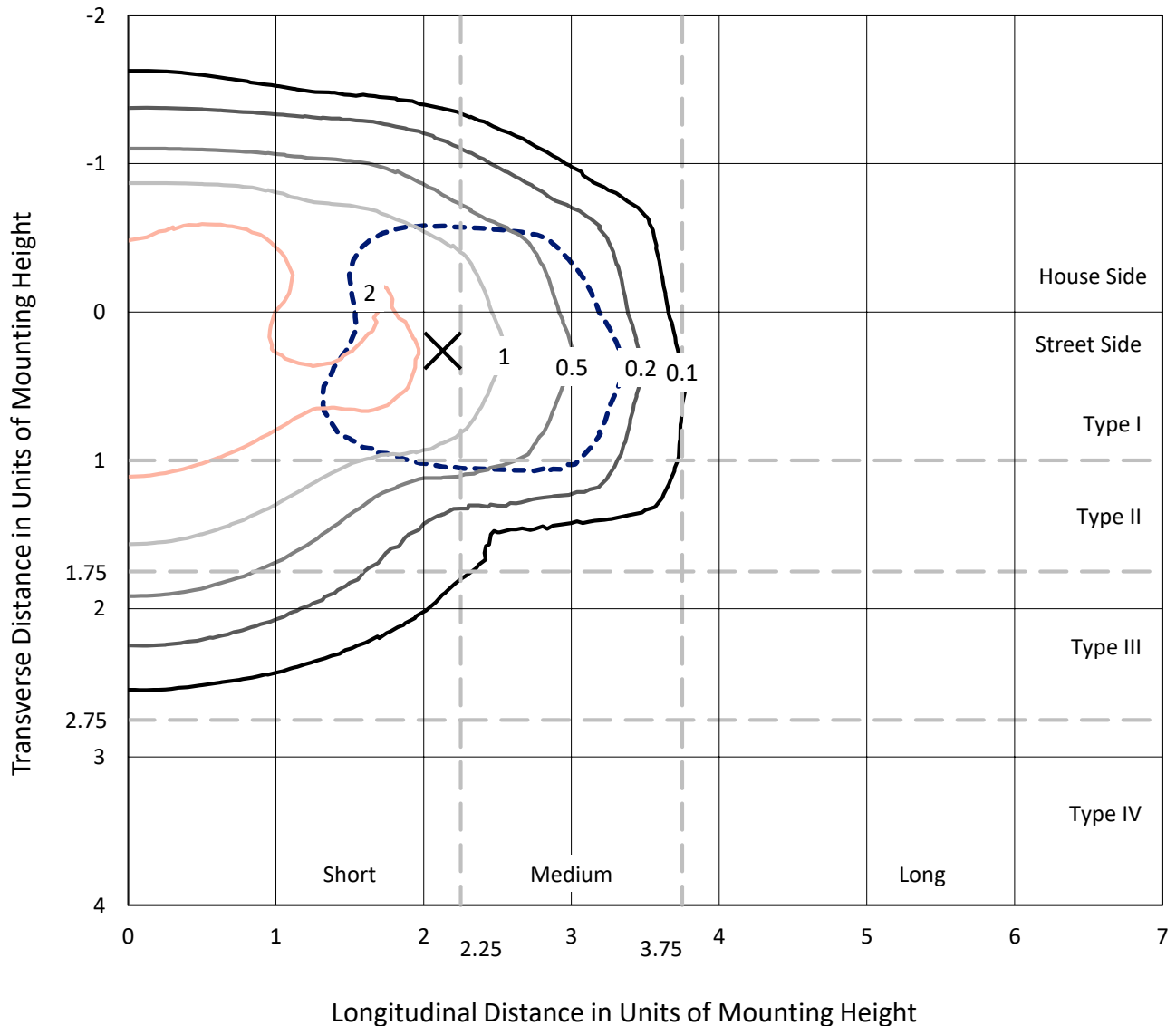
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

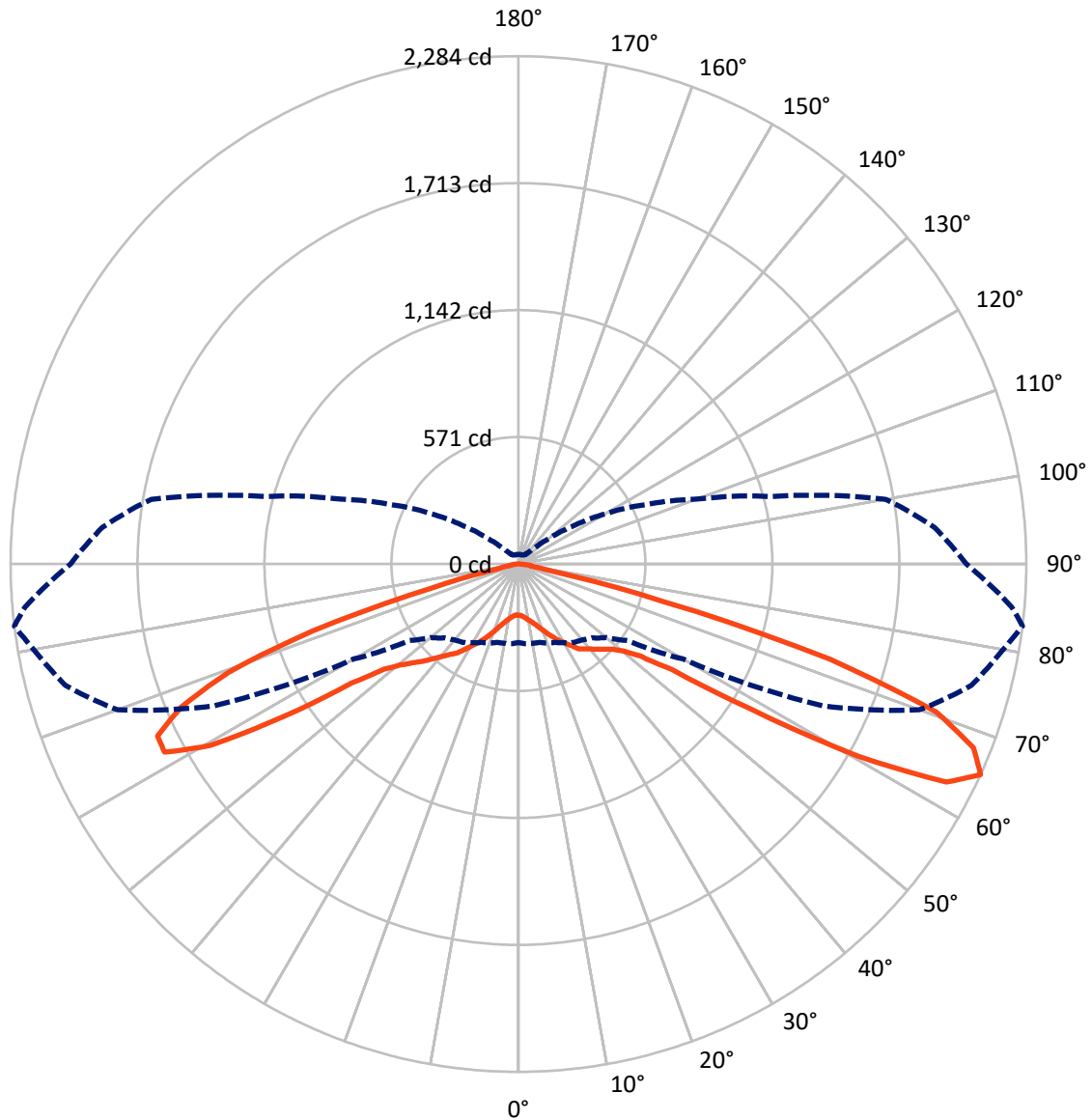
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 83-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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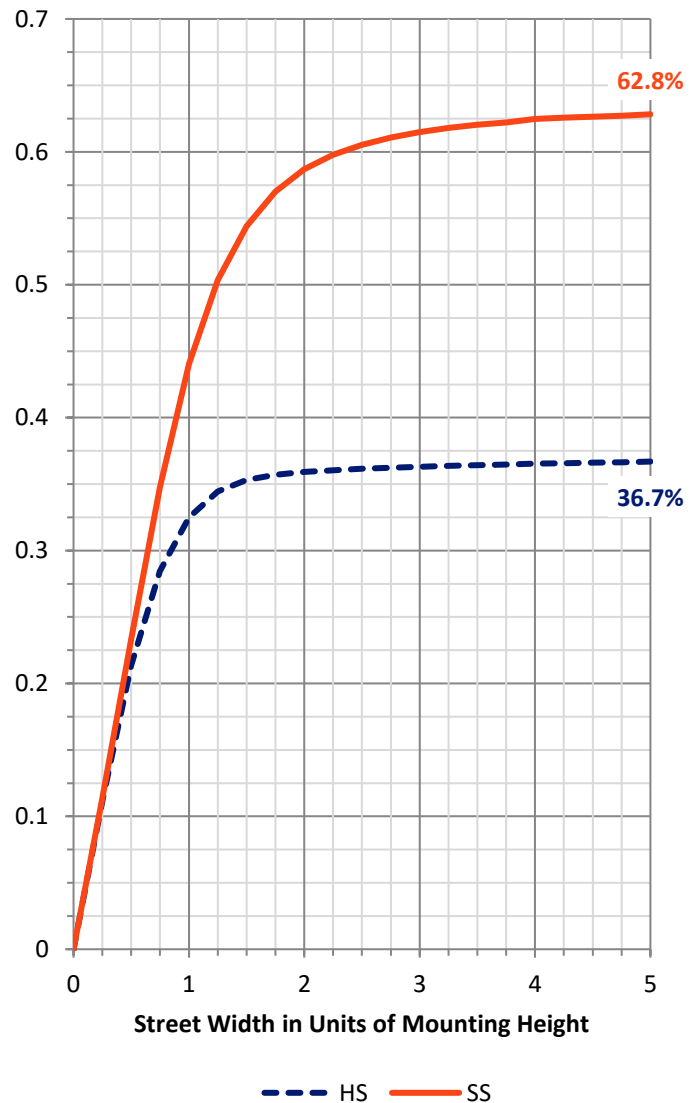
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 922.9 | 0.0 | 922.9 |
| | % Fixture | 37.1 | 0.0 | 37.1 |
| Street Side | Lumens | 1565.2 | 0.0 | 1565.2 |
| | % Fixture | 62.9 | 0.0 | 62.9 |
| Total | Lumens | 2488.2 | 0.0 | 2488.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.2 | 0.9 |
| 10°-20° | 81.2 | 3.3 |
| 20°-30° | 160.4 | 6.4 |
| 30°-40° | 276.1 | 11.1 |
| 40°-50° | 416.6 | 16.7 |
| 50°-60° | 579.7 | 23.3 |
| 60°-70° | 669.1 | 26.9 |
| 70°-80° | 243.2 | 9.8 |
| 80°-90° | 38.6 | 1.6 |
| 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° | 2488.2 | 100.0 |
| 0°-180° | 2488.2 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P141778

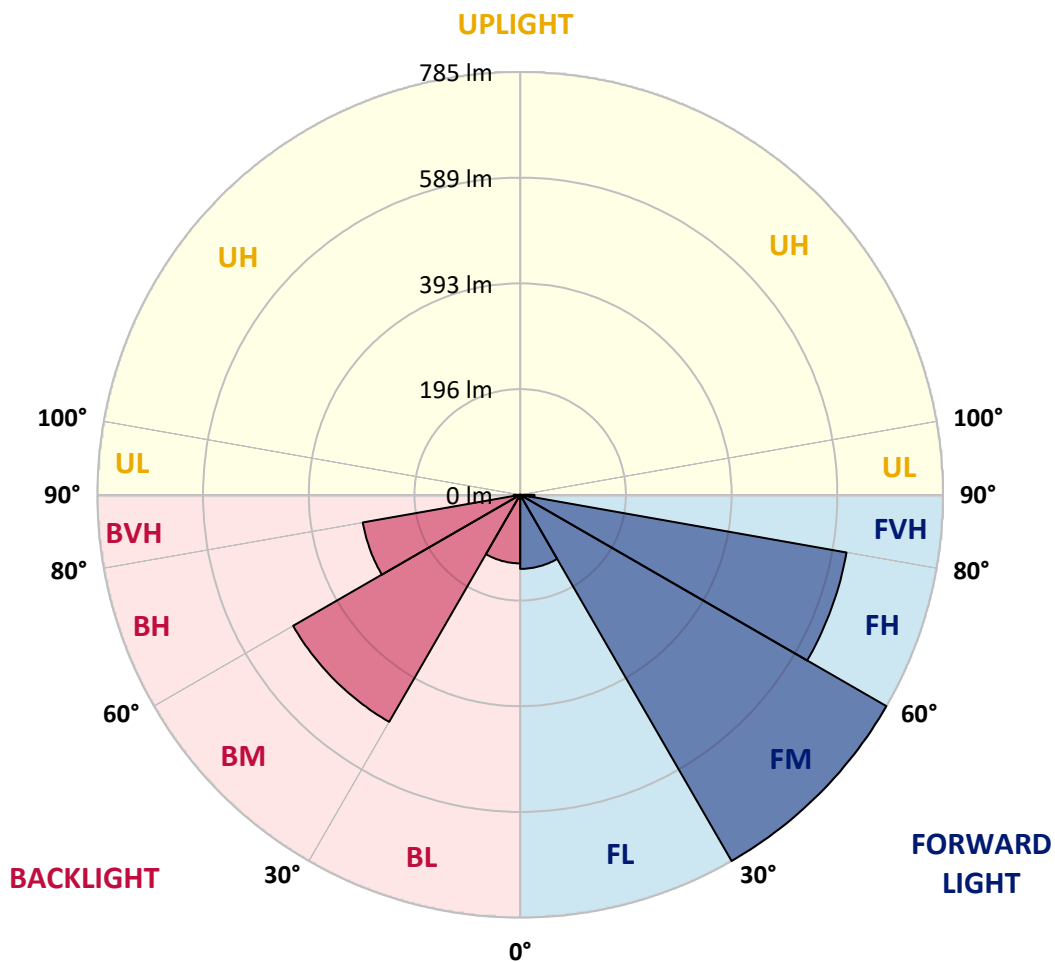
CATALOG NUMBER: CEM-E01-LED-E-U-T2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 137.6 | 5.5 | | | |
| FM | (30°-60°) | 785.4 | 31.6 | | | |
| FH | (60°-80°) | 615.6 | 24.7 | | | G0/660 |
| FVH | (80°-90°) | 26.7 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 127.3 | 5.1 | B1/500 | | |
| BM | (30°-60°) | 487.0 | 19.6 | B1/1000 | | |
| BH | (60°-80°) | 296.7 | 11.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 11.9 | 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 II Short





REPORT NUMBER: P141778

CATALOG NUMBER: CEM-E01-LED-E-U-T2-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 |
| 2.5° | 241.7 | 242.2 | 241.7 | 241.7 | 241.4 | 241.1 | 241.1 | 240.8 | 240.3 | 239.7 | 239.4 |
| 5° | 254.9 | 255.2 | 254.3 | 254.3 | 254.6 | 254.3 | 253.5 | 253.8 | 251.5 | 250.7 | 250.1 |
| 7.5° | 269.5 | 270.4 | 269.2 | 268.7 | 268.4 | 267.8 | 267.0 | 265.6 | 263.9 | 262.5 | 261.6 |
| 10° | 286.1 | 287.0 | 286.4 | 285.3 | 283.6 | 282.7 | 281.9 | 279.6 | 277.7 | 275.4 | 273.7 |
| 12.5° | 305.8 | 306.1 | 305.5 | 303.3 | 302.1 | 299.6 | 296.8 | 294.3 | 291.5 | 288.1 | 285.3 |
| 15° | 325.2 | 325.5 | 324.7 | 322.4 | 321.0 | 317.9 | 314.0 | 310.6 | 305.8 | 301.9 | 298.2 |
| 17.5° | 340.1 | 340.7 | 339.0 | 337.3 | 335.3 | 331.4 | 327.7 | 323.8 | 318.7 | 314.5 | 310.9 |
| 20° | 345.2 | 346.0 | 344.9 | 344.1 | 342.9 | 341.0 | 337.3 | 333.9 | 329.4 | 326.3 | 323.5 |
| 22.5° | 342.9 | 343.8 | 343.2 | 343.2 | 343.2 | 342.9 | 341.3 | 340.4 | 337.6 | 336.2 | 335.6 |
| 25° | 339.6 | 340.4 | 339.8 | 340.4 | 341.5 | 342.9 | 342.9 | 344.6 | 344.3 | 346.6 | 348.0 |
| 27.5° | 348.3 | 348.8 | 347.4 | 347.4 | 348.6 | 350.8 | 350.3 | 353.6 | 354.2 | 358.7 | 362.9 |
| 30° | 378.7 | 378.7 | 376.4 | 374.2 | 375.0 | 374.5 | 373.9 | 376.1 | 376.1 | 380.4 | 382.3 |
| 32.5° | 424.0 | 420.9 | 420.6 | 420.3 | 418.3 | 419.7 | 415.2 | 415.5 | 413.6 | 414.1 | 413.3 |
| 35° | 473.8 | 473.5 | 472.4 | 471.8 | 470.9 | 475.2 | 471.8 | 474.6 | 467.6 | 465.0 | 460.3 |
| 37.5° | 517.4 | 518.5 | 519.3 | 523.6 | 525.5 | 534.0 | 535.9 | 537.3 | 530.0 | 530.3 | 519.6 |
| 40° | 561.3 | 562.7 | 565.8 | 573.4 | 579.0 | 586.9 | 590.5 | 596.4 | 597.0 | 598.1 | 590.2 |
| 42.5° | 609.1 | 606.8 | 611.0 | 620.6 | 627.6 | 635.5 | 640.3 | 651.3 | 657.5 | 660.6 | 661.7 |
| 45° | 647.6 | 645.1 | 647.1 | 652.7 | 659.2 | 669.3 | 679.7 | 696.0 | 709.2 | 723.6 | 731.5 |
| 47.5° | 667.6 | 668.2 | 669.6 | 672.9 | 677.4 | 687.3 | 701.9 | 722.7 | 744.1 | 767.2 | 787.7 |
| 50° | 674.1 | 674.3 | 676.3 | 679.7 | 683.9 | 694.3 | 709.5 | 733.1 | 759.0 | 791.4 | 822.9 |
| 52.5° | 676.0 | 674.9 | 676.9 | 678.6 | 681.4 | 690.1 | 704.5 | 729.2 | 758.5 | 797.6 | 844.3 |
| 55° | 668.7 | 667.3 | 670.7 | 672.9 | 675.2 | 682.2 | 693.2 | 716.0 | 746.4 | 790.8 | 851.9 |
| 57.5° | 640.6 | 640.9 | 645.7 | 651.6 | 657.5 | 667.0 | 681.4 | 703.0 | 733.1 | 777.0 | 845.4 |
| 60° | 593.0 | 592.2 | 598.1 | 605.4 | 615.6 | 630.7 | 648.5 | 670.4 | 695.4 | 732.0 | 799.3 |
| 62.5° | 506.7 | 510.1 | 512.0 | 523.0 | 523.6 | 545.2 | 556.8 | 578.7 | 600.1 | 628.2 | 688.7 |
| 65° | 352.8 | 360.1 | 362.1 | 364.9 | 378.1 | 389.4 | 407.9 | 431.0 | 445.1 | 469.8 | 514.8 |
| 67.5° | 219.7 | 225.1 | 225.3 | 232.7 | 244.2 | 257.1 | 271.5 | 294.8 | 316.2 | 320.2 | 342.7 |
| 70° | 182.3 | 182.6 | 186.5 | 191.9 | 200.9 | 214.1 | 228.2 | 244.5 | 263.9 | 276.3 | 274.0 |
| 72.5° | 151.1 | 152.8 | 155.6 | 160.9 | 170.8 | 182.6 | 200.6 | 221.4 | 245.6 | 270.4 | 292.3 |
| 75° | 101.3 | 104.1 | 104.9 | 107.5 | 112.3 | 122.9 | 136.4 | 156.1 | 187.4 | 224.2 | 270.9 |
| 77.5° | 53.7 | 54.3 | 56.3 | 58.2 | 60.8 | 67.2 | 76.0 | 86.1 | 106.6 | 138.4 | 193.3 |
| 80° | 27.3 | 28.4 | 29.8 | 31.2 | 30.9 | 32.6 | 35.2 | 39.7 | 46.7 | 60.8 | 87.5 |
| 82.5° | 9.8 | 12.7 | 16.6 | 18.6 | 18.6 | 19.1 | 20.0 | 20.8 | 20.3 | 22.5 | 28.1 |
| 85° | 4.5 | 5.1 | 6.5 | 10.1 | 10.4 | 10.4 | 10.4 | 11.0 | 10.4 | 9.3 | 11.0 |
| 87.5° | 0.0 | 0.8 | 0.8 | 2.5 | 2.8 | 2.5 | 2.8 | 3.7 | 2.8 | 2.3 | 2.0 |
| 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: P141778

CATALOG NUMBER: CEM-E01-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 83° | 85° | 90° | 95° | 100° |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 |
| 2.5° | 238.0 | 237.4 | 236.0 | 235.5 | 233.8 | 232.7 | 232.1 | 231.5 | 230.7 | 229.6 | 228.7 |
| 5° | 248.4 | 246.7 | 244.8 | 243.6 | 241.4 | 239.1 | 238.3 | 237.2 | 235.2 | 233.5 | 231.5 |
| 7.5° | 259.4 | 257.4 | 255.2 | 252.6 | 250.4 | 247.9 | 246.7 | 245.6 | 242.8 | 240.5 | 237.7 |
| 10° | 271.2 | 268.4 | 265.9 | 263.6 | 261.6 | 258.8 | 256.9 | 256.0 | 253.5 | 250.1 | 247.3 |
| 12.5° | 282.5 | 279.4 | 276.8 | 274.0 | 272.0 | 269.8 | 267.8 | 267.0 | 265.0 | 261.9 | 259.7 |
| 15° | 294.3 | 291.2 | 288.4 | 286.4 | 284.1 | 282.7 | 281.6 | 280.2 | 279.4 | 276.8 | 275.7 |
| 17.5° | 306.9 | 304.1 | 301.6 | 299.9 | 299.1 | 298.8 | 298.5 | 297.9 | 297.1 | 295.4 | 294.6 |
| 20° | 321.3 | 318.7 | 317.9 | 317.6 | 317.9 | 318.2 | 318.7 | 318.7 | 319.0 | 317.9 | 317.6 |
| 22.5° | 335.1 | 335.1 | 336.5 | 338.2 | 339.8 | 341.0 | 341.8 | 340.7 | 341.0 | 342.7 | 344.1 |
| 25° | 350.3 | 352.8 | 356.4 | 359.3 | 361.8 | 363.8 | 364.9 | 365.4 | 366.0 | 368.5 | 371.1 |
| 27.5° | 366.6 | 370.5 | 375.9 | 379.5 | 384.3 | 387.4 | 389.6 | 389.4 | 390.2 | 393.6 | 398.1 |
| 30° | 386.8 | 390.8 | 396.4 | 401.5 | 407.9 | 412.4 | 413.3 | 412.7 | 413.8 | 416.9 | 425.9 |
| 32.5° | 415.2 | 416.1 | 419.7 | 424.8 | 431.8 | 436.3 | 437.2 | 438.6 | 441.1 | 446.8 | 457.7 |
| 35° | 455.2 | 451.5 | 451.3 | 453.5 | 460.3 | 469.0 | 469.8 | 470.7 | 471.8 | 479.1 | 493.7 |
| 37.5° | 509.2 | 494.3 | 485.3 | 478.3 | 479.1 | 482.2 | 483.9 | 484.5 | 487.3 | 498.5 | 523.3 |
| 40° | 577.0 | 549.2 | 529.2 | 509.2 | 501.9 | 502.5 | 503.0 | 502.5 | 508.1 | 525.5 | 557.9 |
| 42.5° | 651.3 | 626.8 | 591.9 | 550.6 | 529.7 | 523.0 | 523.8 | 524.4 | 533.1 | 558.4 | 594.5 |
| 45° | 730.1 | 714.3 | 673.8 | 609.1 | 564.3 | 547.2 | 546.6 | 547.8 | 562.1 | 597.8 | 635.8 |
| 47.5° | 799.3 | 803.2 | 773.4 | 697.4 | 620.6 | 577.0 | 573.4 | 575.3 | 598.7 | 636.9 | 675.5 |
| 50° | 854.1 | 880.0 | 877.8 | 817.5 | 711.8 | 628.5 | 615.6 | 618.4 | 645.9 | 685.6 | 720.2 |
| 52.5° | 895.5 | 948.1 | 981.8 | 957.9 | 865.9 | 721.9 | 688.4 | 683.6 | 718.2 | 760.2 | 781.5 |
| 55° | 923.0 | 1008.3 | 1096.9 | 1138.3 | 1100.8 | 923.6 | 836.1 | 825.7 | 863.1 | 916.6 | 925.9 |
| 57.5° | 941.3 | 1081.4 | 1272.2 | 1432.0 | 1482.9 | 1331.0 | 1221.3 | 1177.6 | 1204.9 | 1261.5 | 1249.4 |
| 60° | 910.9 | 1110.4 | 1483.7 | 1770.1 | 1915.0 | 1877.3 | 1755.2 | 1689.4 | 1638.5 | 1634.2 | 1567.0 |
| 62.5° | 794.5 | 1041.5 | 1569.5 | 1931.1 | 2134.7 | 2181.7 | 2160.1 | 2082.1 | 1941.2 | 1863.0 | 1711.1 |
| 65° | 599.2 | 853.3 | 1508.5 | 1918.7 | 2109.7 | 2213.8 | 2284.4 | 2228.4 | 2014.6 | 1879.3 | 1677.3 |
| 67.5° | 382.9 | 550.8 | 1254.7 | 1769.8 | 1949.3 | 2066.4 | 2207.6 | 2182.0 | 1908.8 | 1736.1 | 1516.4 |
| 70° | 279.6 | 305.2 | 851.3 | 1498.1 | 1695.6 | 1798.5 | 1992.7 | 1981.4 | 1673.9 | 1479.8 | 1262.0 |
| 72.5° | 322.1 | 227.6 | 466.7 | 1119.1 | 1271.9 | 1352.9 | 1464.0 | 1436.8 | 1169.5 | 1034.7 | 880.6 |
| 75° | 363.2 | 254.6 | 263.0 | 663.9 | 710.6 | 653.8 | 669.0 | 580.9 | 453.2 | 401.7 | 395.8 |
| 77.5° | 305.8 | 319.3 | 238.6 | 285.3 | 262.8 | 189.3 | 141.8 | 111.1 | 86.9 | 93.4 | 103.8 |
| 80° | 177.8 | 359.0 | 315.7 | 148.5 | 166.5 | 132.5 | 59.1 | 49.0 | 40.5 | 41.1 | 41.6 |
| 82.5° | 54.9 | 224.2 | 444.2 | 181.5 | 164.9 | 186.8 | 54.3 | 33.2 | 26.7 | 30.1 | 34.0 |
| 85° | 18.3 | 94.0 | 356.2 | 190.5 | 106.6 | 99.6 | 23.9 | 16.3 | 13.5 | 18.8 | 26.7 |
| 87.5° | 4.5 | 22.8 | 66.1 | 25.0 | 15.8 | 9.6 | 8.2 | 5.9 | 6.5 | 11.8 | 16.6 |
| 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: P141778

CATALOG NUMBER: CEM-E01-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 |
| 2.5° | 228.2 | 227.3 | 226.5 | 225.9 | 225.1 | 225.1 | 224.2 | 224.2 | 223.1 | 222.5 | 222.5 |
| 5° | 229.8 | 228.2 | 226.8 | 225.3 | 223.9 | 223.4 | 222.3 | 221.7 | 220.6 | 219.7 | 219.2 |
| 7.5° | 235.5 | 233.2 | 231.5 | 229.8 | 228.2 | 227.3 | 226.2 | 225.1 | 224.8 | 224.2 | 223.7 |
| 10° | 245.0 | 241.9 | 240.5 | 239.4 | 237.2 | 236.6 | 235.5 | 234.6 | 233.8 | 232.9 | 233.2 |
| 12.5° | 257.4 | 255.2 | 254.6 | 252.4 | 251.8 | 250.9 | 249.3 | 248.7 | 246.4 | 244.8 | 243.9 |
| 15° | 273.2 | 272.3 | 272.3 | 271.2 | 269.5 | 268.1 | 265.6 | 264.2 | 260.2 | 257.7 | 254.9 |
| 17.5° | 294.0 | 293.1 | 293.4 | 292.3 | 290.3 | 287.8 | 285.0 | 280.8 | 274.9 | 270.4 | 264.7 |
| 20° | 318.2 | 317.9 | 318.5 | 317.6 | 315.1 | 311.7 | 305.0 | 298.8 | 290.6 | 282.5 | 276.3 |
| 22.5° | 345.2 | 346.6 | 347.2 | 344.9 | 342.1 | 335.1 | 327.7 | 318.7 | 307.8 | 297.1 | 288.4 |
| 25° | 373.9 | 377.3 | 379.2 | 376.1 | 372.8 | 363.8 | 352.8 | 340.7 | 325.2 | 312.3 | 300.7 |
| 27.5° | 402.0 | 409.1 | 411.9 | 410.2 | 404.8 | 392.2 | 377.5 | 361.5 | 342.7 | 325.5 | 310.6 |
| 30° | 435.5 | 444.8 | 449.8 | 447.3 | 436.9 | 420.3 | 402.6 | 380.9 | 357.0 | 336.5 | 318.5 |
| 32.5° | 470.7 | 482.2 | 485.9 | 480.5 | 465.3 | 444.5 | 421.4 | 395.0 | 368.0 | 344.3 | 324.1 |
| 35° | 509.8 | 520.5 | 521.3 | 510.9 | 490.9 | 464.5 | 435.8 | 404.0 | 373.0 | 346.6 | 324.4 |
| 37.5° | 543.8 | 554.5 | 553.7 | 538.2 | 514.0 | 481.1 | 444.5 | 406.0 | 369.9 | 339.8 | 315.7 |
| 40° | 579.5 | 591.4 | 584.9 | 564.9 | 533.7 | 491.8 | 445.6 | 399.2 | 358.1 | 325.2 | 298.8 |
| 42.5° | 617.2 | 622.3 | 610.8 | 585.7 | 545.5 | 491.5 | 436.1 | 383.2 | 339.6 | 303.0 | 275.1 |
| 45° | 651.8 | 647.9 | 631.3 | 597.8 | 544.7 | 479.4 | 417.2 | 363.2 | 314.8 | 278.2 | 250.9 |
| 47.5° | 682.8 | 670.4 | 644.8 | 597.8 | 531.4 | 458.0 | 393.0 | 337.3 | 289.2 | 252.4 | 225.3 |
| 50° | 716.3 | 690.4 | 650.4 | 587.4 | 507.5 | 432.1 | 367.4 | 311.4 | 261.9 | 224.2 | 194.7 |
| 52.5° | 760.7 | 714.3 | 650.4 | 568.6 | 482.8 | 406.0 | 340.4 | 281.3 | 230.1 | 190.7 | 161.5 |
| 55° | 864.8 | 764.4 | 661.7 | 558.2 | 460.8 | 378.4 | 308.3 | 242.5 | 192.7 | 155.0 | 130.8 |
| 57.5° | 1069.3 | 874.1 | 718.2 | 577.3 | 452.7 | 348.6 | 267.0 | 199.5 | 152.2 | 120.7 | 100.4 |
| 60° | 1239.5 | 962.7 | 764.1 | 591.9 | 439.4 | 310.0 | 216.3 | 152.8 | 113.1 | 89.2 | 76.0 |
| 62.5° | 1283.4 | 963.8 | 745.2 | 553.9 | 386.0 | 252.4 | 159.5 | 105.2 | 77.6 | 64.7 | 57.7 |
| 65° | 1173.7 | 852.4 | 633.8 | 451.8 | 294.0 | 175.3 | 99.9 | 63.9 | 51.8 | 47.3 | 44.5 |
| 67.5° | 986.6 | 679.1 | 469.8 | 315.1 | 185.4 | 96.5 | 56.0 | 43.9 | 39.4 | 38.0 | 36.6 |
| 70° | 756.8 | 477.1 | 305.8 | 184.6 | 97.1 | 50.1 | 39.9 | 36.0 | 34.0 | 33.2 | 32.1 |
| 72.5° | 466.4 | 281.9 | 166.3 | 88.6 | 48.4 | 38.3 | 35.7 | 34.3 | 31.8 | 30.7 | 29.5 |
| 75° | 198.1 | 121.0 | 68.9 | 45.0 | 38.8 | 36.6 | 34.6 | 32.9 | 30.9 | 29.3 | 28.1 |
| 77.5° | 66.7 | 46.1 | 40.8 | 39.4 | 38.8 | 36.6 | 34.0 | 31.8 | 29.8 | 27.9 | 26.7 |
| 80° | 40.5 | 36.9 | 37.7 | 37.4 | 38.8 | 36.3 | 32.9 | 30.4 | 28.1 | 26.2 | 24.8 |
| 82.5° | 35.2 | 34.9 | 35.7 | 36.6 | 38.5 | 34.9 | 30.9 | 27.3 | 24.5 | 22.5 | 21.1 |
| 85° | 30.4 | 30.9 | 31.5 | 32.1 | 33.2 | 29.5 | 25.0 | 21.7 | 19.4 | 16.9 | 15.8 |
| 87.5° | 20.3 | 21.9 | 23.1 | 23.4 | 22.5 | 14.1 | 8.2 | 9.6 | 9.8 | 8.4 | 7.6 |
| 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: P141778

CATALOG NUMBER: CEM-E01-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

| | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 230.4 | 230.4 | 230.4 | 230.4 | 230.4 |
| 2.5° | 221.7 | 221.4 | 222.3 | 221.4 | 221.4 |
| 5° | 218.9 | 218.6 | 218.6 | 218.6 | 218.0 |
| 7.5° | 223.4 | 223.1 | 222.8 | 222.8 | 222.5 |
| 10° | 232.1 | 231.8 | 231.8 | 231.5 | 231.5 |
| 12.5° | 242.5 | 241.4 | 241.1 | 240.5 | 240.8 |
| 15° | 252.6 | 249.5 | 248.7 | 247.9 | 247.0 |
| 17.5° | 260.5 | 256.9 | 254.9 | 253.2 | 253.2 |
| 20° | 270.4 | 265.6 | 263.0 | 260.5 | 260.5 |
| 22.5° | 281.6 | 275.1 | 271.8 | 269.0 | 267.8 |
| 25° | 290.9 | 282.7 | 278.0 | 274.6 | 273.7 |
| 27.5° | 297.9 | 287.5 | 281.3 | 277.4 | 276.3 |
| 30° | 303.6 | 291.7 | 284.4 | 280.2 | 278.5 |
| 32.5° | 307.2 | 294.3 | 286.4 | 282.2 | 280.5 |
| 35° | 305.2 | 291.5 | 281.9 | 276.8 | 275.7 |
| 37.5° | 295.4 | 280.8 | 269.5 | 264.2 | 262.2 |
| 40° | 277.4 | 261.6 | 249.8 | 243.4 | 242.2 |
| 42.5° | 253.8 | 238.0 | 226.8 | 220.0 | 216.9 |
| 45° | 228.4 | 212.1 | 201.4 | 195.2 | 191.6 |
| 47.5° | 201.2 | 185.1 | 174.1 | 168.0 | 165.4 |
| 50° | 172.5 | 157.0 | 147.7 | 140.9 | 138.4 |
| 52.5° | 142.6 | 128.8 | 119.6 | 113.9 | 111.1 |
| 55° | 114.2 | 103.0 | 95.1 | 91.4 | 89.5 |
| 57.5° | 89.2 | 81.9 | 77.4 | 75.1 | 73.7 |
| 60° | 69.2 | 65.5 | 63.9 | 62.2 | 62.5 |
| 62.5° | 54.0 | 53.2 | 52.6 | 51.8 | 52.0 |
| 65° | 43.6 | 43.0 | 43.3 | 43.0 | 43.3 |
| 67.5° | 35.7 | 36.0 | 36.6 | 36.6 | 36.9 |
| 70° | 31.5 | 31.8 | 32.4 | 32.4 | 32.4 |
| 72.5° | 29.3 | 29.8 | 30.4 | 30.1 | 30.1 |
| 75° | 27.6 | 29.0 | 30.1 | 29.0 | 27.9 |
| 77.5° | 25.9 | 29.3 | 32.4 | 29.8 | 26.7 |
| 80° | 23.6 | 30.9 | 34.6 | 30.1 | 25.6 |
| 82.5° | 22.5 | 29.8 | 30.4 | 26.2 | 22.5 |
| 85° | 20.8 | 33.8 | 35.2 | 23.9 | 17.2 |
| 87.5° | 10.7 | 20.3 | 23.4 | 16.0 | 8.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)