

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: McGRAW-EDISON

Report Number: P228408

Luminaire Tested: **ISC-AF-600-LED-E1-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-600-LED-E1-SL4-8030
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2820 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

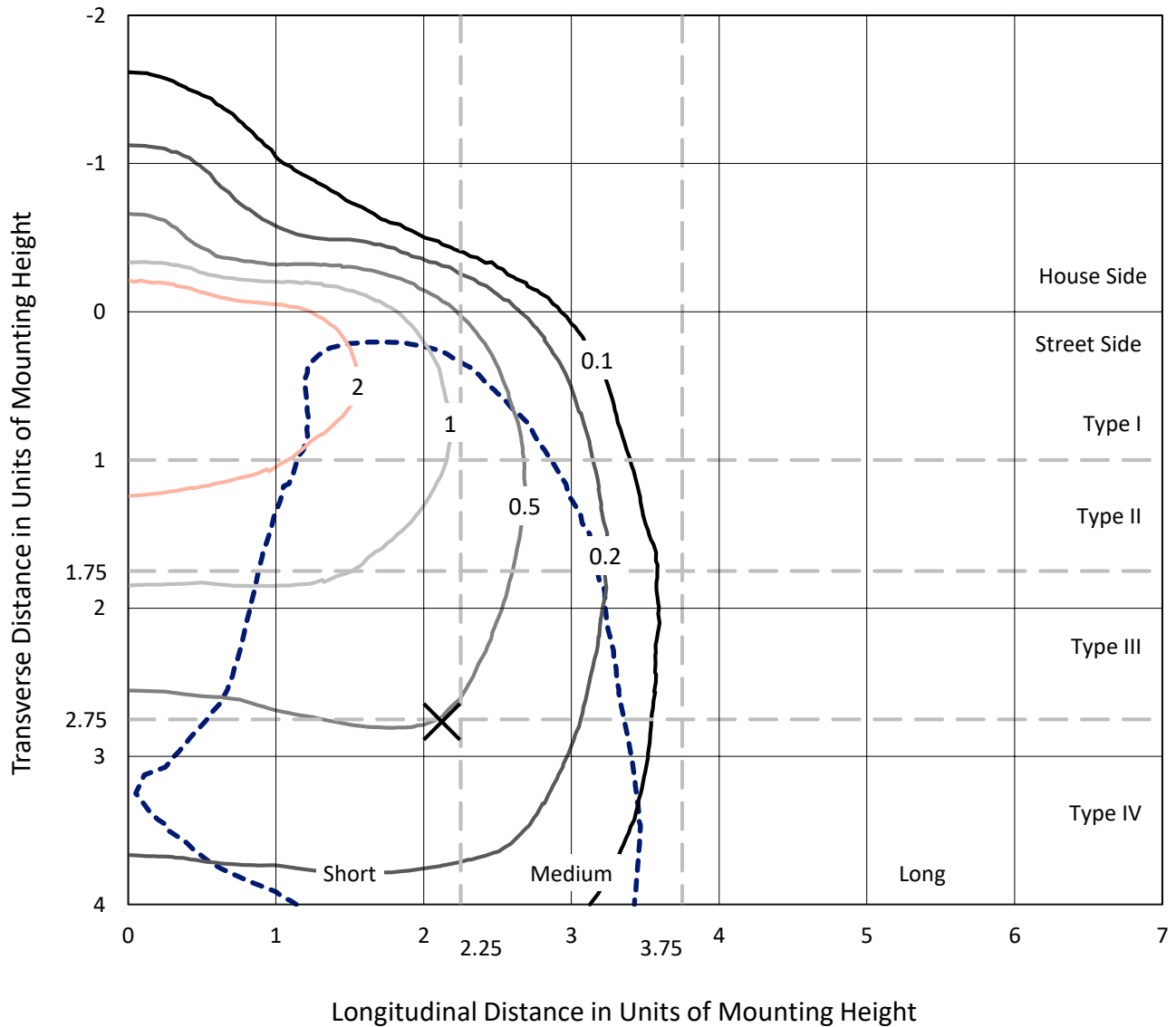
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P228408
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Iso-Footcandle Lines of Horizontal Illumination

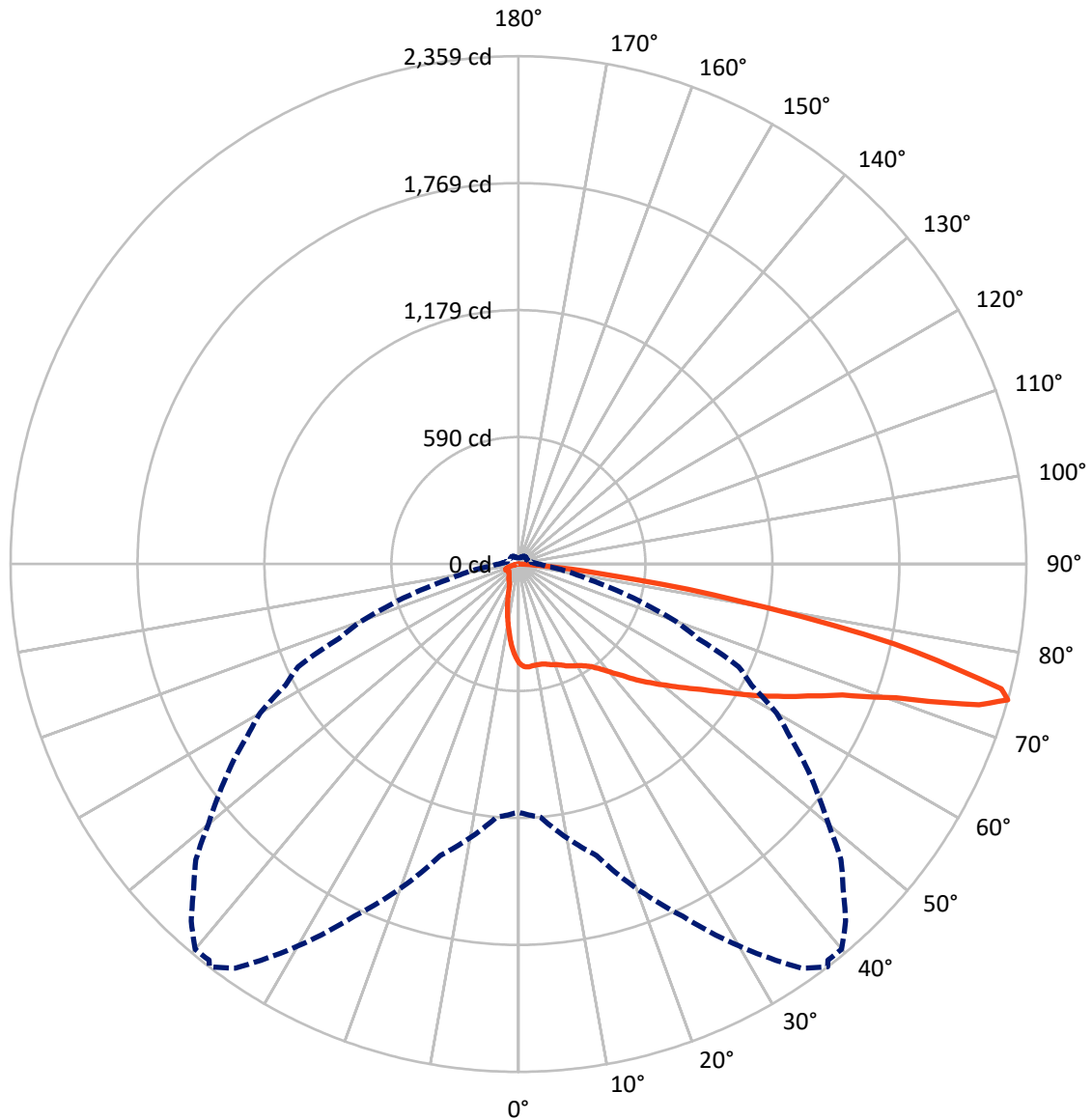
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 334.4 | 0.0 | 334.4 |
| | % Fixture | 11.9 | 0.0 | 11.9 |
| Street Side | Lumens | 2485.6 | 0.0 | 2485.6 |
| | % Fixture | 88.1 | 0.0 | 88.1 |
| Total | Lumens | 2820.0 | 0.0 | 2820.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.1 | 1.4 |
| 10°-20° | 102.1 | 3.6 |
| 20°-30° | 158.2 | 5.6 |
| 30°-40° | 234.6 | 8.3 |
| 40°-50° | 360.9 | 12.8 |
| 50°-60° | 533.4 | 18.9 |
| 60°-70° | 711.0 | 25.2 |
| 70°-80° | 613.8 | 21.8 |
| 80°-90° | 66.0 | 2.3 |
| 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° | 2820.0 | 100.0 |
| 0°-180° | 2820.0 | 100.0 |



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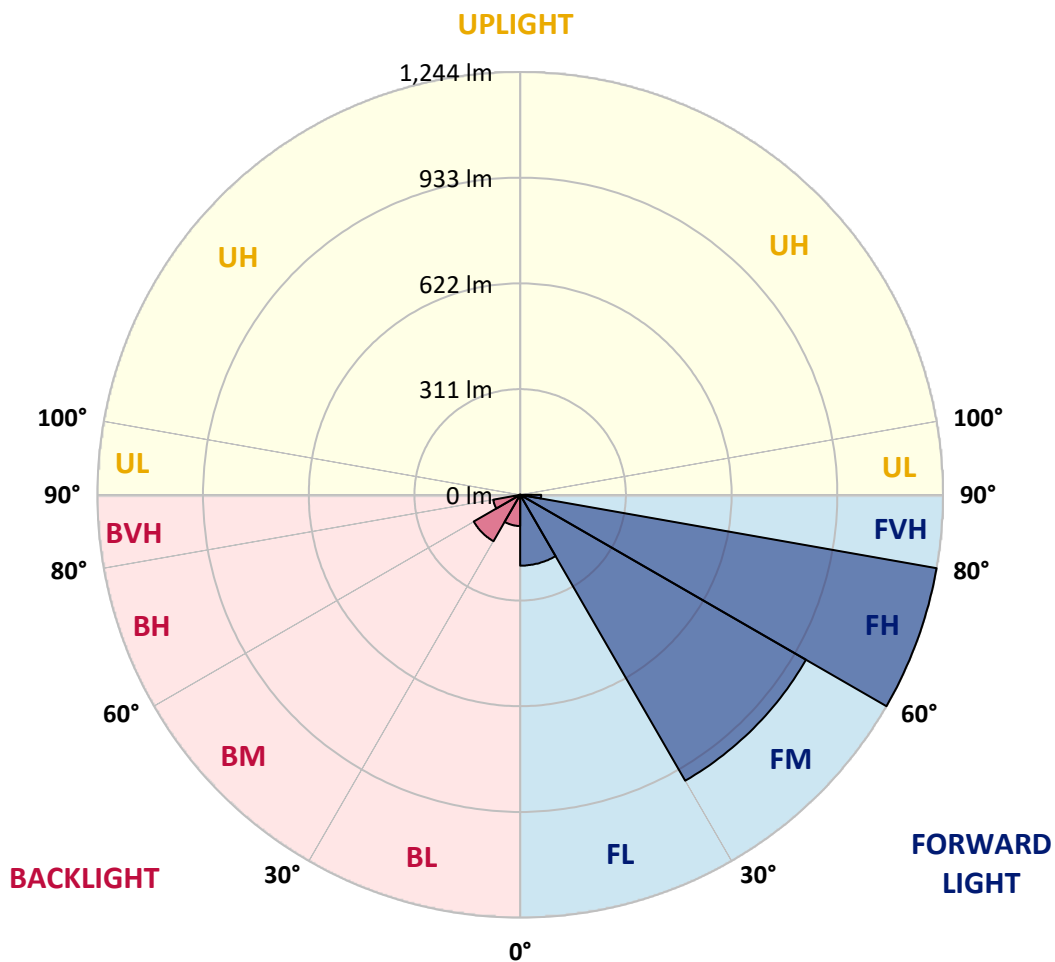
CATALOG NUMBER: ISC-AF-600-LED-E1-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 208.5 | 7.4 | | | |
| FM | (30°-60°) | 971.3 | 34.4 | | | |
| FH | (60°-80°) | 1244.2 | 44.1 | | | G1/1800 |
| FVH | (80°-90°) | 61.7 | 2.2 | | | G1/100 |
| BL | (0°-30°) | 91.8 | 3.3 | B0/110 | | |
| BM | (30°-60°) | 157.6 | 5.6 | B0/220 | | |
| BH | (60°-80°) | 80.6 | 2.9 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 4.3 | 0.2 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type IV Short





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CATALOG NUMBER: ISC-AF-600-LED-E1-SL4-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37.5° | 38° | 40° | 42.5° | 45° | 47.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 |
| 2.5° | 486.5 | 485.5 | 483.3 | 482.3 | 480.2 | 477.0 | 480.2 | 476.0 | 473.9 | 476.0 | 471.8 |
| 5° | 494.9 | 493.9 | 491.8 | 487.6 | 485.5 | 480.2 | 483.3 | 478.1 | 477.0 | 479.1 | 473.9 |
| 7.5° | 496.0 | 493.9 | 490.7 | 485.5 | 483.3 | 477.0 | 479.1 | 472.8 | 470.7 | 472.8 | 469.7 |
| 10° | 492.8 | 491.8 | 488.6 | 480.2 | 478.1 | 476.0 | 474.9 | 470.7 | 469.7 | 468.6 | 467.6 |
| 12.5° | 487.6 | 487.6 | 485.5 | 482.3 | 481.2 | 477.0 | 478.1 | 473.9 | 474.9 | 472.8 | 470.7 |
| 15° | 485.5 | 484.4 | 486.5 | 488.6 | 488.6 | 482.3 | 486.5 | 483.3 | 481.2 | 482.3 | 479.1 |
| 17.5° | 483.3 | 484.4 | 491.8 | 496.0 | 498.1 | 491.8 | 498.1 | 491.8 | 487.6 | 492.8 | 487.6 |
| 20° | 482.3 | 485.5 | 498.1 | 507.6 | 508.6 | 498.1 | 508.6 | 498.1 | 498.1 | 504.4 | 494.9 |
| 22.5° | 487.6 | 492.8 | 510.7 | 521.3 | 523.4 | 509.7 | 522.3 | 508.6 | 508.6 | 513.9 | 504.4 |
| 25° | 504.4 | 509.7 | 529.7 | 541.3 | 539.2 | 524.4 | 536.0 | 522.3 | 521.3 | 527.6 | 514.9 |
| 27.5° | 526.5 | 533.9 | 552.8 | 563.4 | 556.0 | 536.0 | 552.8 | 532.8 | 532.8 | 542.3 | 525.5 |
| 30° | 558.1 | 563.4 | 580.2 | 581.3 | 571.8 | 547.6 | 566.5 | 544.4 | 541.3 | 558.1 | 537.1 |
| 32.5° | 592.9 | 597.1 | 609.7 | 602.3 | 588.7 | 563.4 | 585.5 | 559.2 | 558.1 | 576.0 | 551.8 |
| 35° | 629.7 | 633.9 | 638.1 | 625.5 | 612.9 | 585.5 | 609.7 | 583.4 | 582.3 | 602.3 | 579.2 |
| 37.5° | 667.6 | 667.6 | 667.6 | 652.9 | 644.5 | 618.1 | 640.2 | 619.2 | 617.1 | 638.1 | 616.0 |
| 40° | 698.2 | 700.3 | 697.1 | 683.4 | 679.2 | 660.3 | 679.2 | 660.3 | 663.4 | 682.4 | 664.5 |
| 42.5° | 723.4 | 725.5 | 726.6 | 715.0 | 719.2 | 708.7 | 723.4 | 709.8 | 710.8 | 731.9 | 721.3 |
| 45° | 748.7 | 747.7 | 756.1 | 752.9 | 765.6 | 766.6 | 775.0 | 769.8 | 771.9 | 787.7 | 784.5 |
| 47.5° | 775.0 | 769.8 | 779.3 | 792.9 | 816.1 | 823.5 | 828.7 | 830.9 | 839.3 | 846.6 | 854.0 |
| 50° | 800.3 | 795.0 | 801.4 | 831.9 | 868.8 | 884.6 | 885.6 | 896.1 | 905.6 | 916.1 | 930.9 |
| 52.5° | 826.6 | 822.4 | 828.7 | 871.9 | 930.9 | 953.0 | 949.8 | 967.7 | 981.4 | 993.0 | 1017.2 |
| 55° | 854.0 | 849.8 | 856.1 | 920.4 | 997.2 | 1027.8 | 1024.6 | 1049.9 | 1076.2 | 1080.4 | 1107.8 |
| 57.5° | 880.3 | 875.1 | 893.0 | 977.2 | 1076.2 | 1122.5 | 1107.8 | 1146.8 | 1172.0 | 1169.9 | 1207.8 |
| 60° | 908.8 | 904.6 | 933.0 | 1046.7 | 1175.2 | 1235.2 | 1213.1 | 1264.7 | 1282.6 | 1275.2 | 1311.0 |
| 62.5° | 936.2 | 935.1 | 982.5 | 1127.8 | 1295.2 | 1353.2 | 1333.2 | 1378.4 | 1391.1 | 1381.6 | 1399.5 |
| 65° | 961.4 | 967.7 | 1036.2 | 1208.9 | 1411.1 | 1477.4 | 1450.0 | 1495.3 | 1510.1 | 1502.7 | 1533.2 |
| 67.5° | 1003.5 | 1010.9 | 1102.5 | 1312.1 | 1554.3 | 1622.7 | 1599.6 | 1647.0 | 1669.1 | 1667.0 | 1700.7 |
| 70° | 1065.7 | 1079.4 | 1200.5 | 1458.5 | 1772.3 | 1859.7 | 1847.0 | 1905.0 | 1958.7 | 1954.4 | 1988.1 |
| 72.5° | 1174.1 | 1196.3 | 1361.6 | 1685.9 | 2130.3 | 2236.7 | 2221.9 | 2254.6 | 2245.1 | 2168.2 | 2106.1 |
| 74° | 1153.1 | 1180.5 | 1401.6 | 1804.9 | 2291.4 | 2358.8 | 2334.6 | 2335.6 | 2249.3 | 2132.4 | 2032.4 |
| 75° | 1076.2 | 1104.6 | 1343.7 | 1790.2 | 2279.8 | 2316.7 | 2281.9 | 2238.8 | 2134.5 | 2015.5 | 1892.3 |
| 77.5° | 738.2 | 775.0 | 987.8 | 1445.8 | 1835.5 | 1784.9 | 1776.5 | 1694.3 | 1556.4 | 1422.7 | 1264.7 |
| 80° | 378.0 | 404.4 | 510.7 | 756.1 | 1088.8 | 1038.3 | 1055.1 | 988.8 | 874.0 | 777.1 | 616.0 |
| 82.5° | 90.6 | 96.9 | 150.6 | 292.7 | 471.8 | 431.7 | 438.1 | 387.5 | 321.2 | 262.2 | 203.2 |
| 85° | 47.4 | 53.7 | 73.7 | 81.1 | 124.3 | 128.5 | 125.3 | 121.1 | 99.0 | 83.2 | 72.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.1 | 1.1 | 0.0 | 1.1 | 0.0 | 0.0 | 1.1 | 2.1 |
| 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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CATALOG NUMBER: ISC-AF-600-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

| | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 |
| 2.5° | 474.9 | 472.8 | 474.9 | 468.6 | 471.8 | 466.5 | 468.6 | 463.3 | 465.4 | 461.2 | 462.3 |
| 5° | 477.0 | 471.8 | 474.9 | 469.7 | 470.7 | 466.5 | 465.4 | 463.3 | 462.3 | 459.1 | 457.0 |
| 7.5° | 471.8 | 467.6 | 466.5 | 464.4 | 461.2 | 462.3 | 458.1 | 457.0 | 453.9 | 453.9 | 447.5 |
| 10° | 466.5 | 467.6 | 461.2 | 463.3 | 458.1 | 459.1 | 451.8 | 453.9 | 448.6 | 452.8 | 443.3 |
| 12.5° | 470.7 | 471.8 | 466.5 | 469.7 | 460.2 | 462.3 | 456.0 | 459.1 | 451.8 | 457.0 | 445.4 |
| 15° | 480.2 | 479.1 | 477.0 | 477.0 | 467.6 | 471.8 | 464.4 | 466.5 | 459.1 | 465.4 | 452.8 |
| 17.5° | 488.6 | 487.6 | 484.4 | 483.3 | 477.0 | 478.1 | 470.7 | 474.9 | 466.5 | 471.8 | 459.1 |
| 20° | 498.1 | 492.8 | 491.8 | 490.7 | 483.3 | 483.3 | 478.1 | 480.2 | 471.8 | 478.1 | 463.3 |
| 22.5° | 505.5 | 501.2 | 500.2 | 496.0 | 490.7 | 492.8 | 485.5 | 486.5 | 478.1 | 484.4 | 471.8 |
| 25° | 517.0 | 511.8 | 511.8 | 505.5 | 502.3 | 501.2 | 497.0 | 500.2 | 491.8 | 496.0 | 484.4 |
| 27.5° | 532.8 | 521.3 | 525.5 | 519.1 | 517.0 | 516.0 | 513.9 | 516.0 | 509.7 | 512.8 | 501.2 |
| 30° | 547.6 | 532.8 | 539.2 | 530.7 | 534.9 | 530.7 | 533.9 | 530.7 | 530.7 | 530.7 | 525.5 |
| 32.5° | 567.6 | 549.7 | 562.3 | 549.7 | 558.1 | 551.8 | 562.3 | 556.0 | 560.2 | 559.2 | 557.1 |
| 35° | 596.0 | 575.0 | 592.9 | 576.0 | 590.8 | 582.3 | 597.1 | 593.9 | 602.3 | 598.1 | 602.3 |
| 37.5° | 633.9 | 611.8 | 632.9 | 617.1 | 635.0 | 622.3 | 643.4 | 641.3 | 659.2 | 652.9 | 659.2 |
| 40° | 681.3 | 665.5 | 681.3 | 669.7 | 688.7 | 683.4 | 705.5 | 706.6 | 726.6 | 723.4 | 730.8 |
| 42.5° | 734.0 | 722.4 | 738.2 | 731.9 | 750.8 | 755.0 | 780.3 | 786.6 | 805.6 | 810.8 | 811.9 |
| 45° | 790.8 | 788.7 | 801.4 | 807.7 | 826.6 | 839.3 | 861.4 | 877.2 | 898.2 | 909.8 | 907.7 |
| 47.5° | 857.2 | 865.6 | 874.0 | 889.8 | 906.7 | 933.0 | 955.1 | 975.1 | 999.3 | 1006.7 | 1009.9 |
| 50° | 931.9 | 946.7 | 954.1 | 976.2 | 993.0 | 1025.7 | 1056.2 | 1081.5 | 1107.8 | 1104.6 | 1106.7 |
| 52.5° | 1010.9 | 1029.9 | 1040.4 | 1066.7 | 1088.8 | 1126.8 | 1153.1 | 1177.3 | 1209.9 | 1201.5 | 1198.4 |
| 55° | 1098.3 | 1126.8 | 1135.2 | 1164.7 | 1183.6 | 1222.6 | 1245.7 | 1287.9 | 1301.6 | 1293.1 | 1275.2 |
| 57.5° | 1191.0 | 1224.7 | 1234.2 | 1274.2 | 1283.7 | 1325.8 | 1345.8 | 1374.2 | 1385.8 | 1372.1 | 1348.9 |
| 60° | 1296.3 | 1326.8 | 1334.2 | 1370.0 | 1382.6 | 1421.6 | 1436.3 | 1461.6 | 1470.0 | 1436.3 | 1403.7 |
| 62.5° | 1401.6 | 1433.2 | 1437.4 | 1469.0 | 1481.6 | 1515.3 | 1532.2 | 1546.9 | 1542.7 | 1493.2 | 1452.1 |
| 65° | 1521.6 | 1552.2 | 1562.7 | 1594.3 | 1601.7 | 1627.0 | 1640.6 | 1623.8 | 1614.3 | 1539.5 | 1493.2 |
| 67.5° | 1712.2 | 1744.9 | 1749.1 | 1756.5 | 1755.4 | 1742.8 | 1736.5 | 1678.5 | 1636.4 | 1498.5 | 1432.1 |
| 70° | 1962.9 | 1938.7 | 1891.3 | 1836.5 | 1796.5 | 1724.9 | 1682.8 | 1563.8 | 1475.3 | 1320.5 | 1208.9 |
| 72.5° | 2008.2 | 1929.2 | 1812.3 | 1718.6 | 1621.7 | 1509.0 | 1418.4 | 1238.4 | 1114.1 | 952.0 | 834.0 |
| 74° | 1879.7 | 1751.2 | 1628.0 | 1496.4 | 1384.8 | 1220.5 | 1128.9 | 901.4 | 778.2 | 613.9 | 470.7 |
| 75° | 1724.9 | 1574.3 | 1435.3 | 1267.9 | 1163.6 | 966.7 | 880.3 | 635.0 | 511.8 | 364.4 | 245.4 |
| 77.5° | 1100.4 | 920.4 | 787.7 | 593.9 | 512.8 | 353.8 | 259.0 | 161.1 | 119.0 | 104.3 | 90.6 |
| 80° | 493.9 | 351.7 | 279.1 | 192.7 | 161.1 | 123.2 | 104.3 | 84.2 | 76.9 | 67.4 | 64.2 |
| 82.5° | 158.0 | 126.4 | 120.0 | 107.4 | 107.4 | 86.3 | 73.7 | 57.9 | 52.7 | 45.3 | 41.1 |
| 85° | 68.4 | 64.2 | 66.3 | 61.1 | 62.1 | 47.4 | 37.9 | 28.4 | 28.4 | 20.0 | 17.9 |
| 87.5° | 2.1 | 0.0 | 1.1 | 0.0 | 2.1 | 0.0 | 1.1 | 0.0 | 1.1 | 0.0 | 1.1 |
| 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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CATALOG NUMBER: ISC-AF-600-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

| | 77.5° | 80° | 85° | 90° | 95° | 100° | 102.5° | 105° | 107.5° | 110° | 112.5° |
|-------|--------|--------|--------|-------|-------|-------|--------|-------|--------|-------|--------|
| 0° | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 |
| 2.5° | 458.1 | 460.2 | 459.1 | 454.9 | 453.9 | 450.7 | 443.3 | 444.4 | 440.2 | 443.3 | 438.1 |
| 5° | 453.9 | 452.8 | 448.6 | 443.3 | 438.1 | 431.7 | 426.5 | 424.4 | 420.2 | 418.1 | 414.9 |
| 7.5° | 447.5 | 443.3 | 436.0 | 427.5 | 420.2 | 411.7 | 407.5 | 400.2 | 398.0 | 390.7 | 389.6 |
| 10° | 445.4 | 438.1 | 429.6 | 419.1 | 406.5 | 393.8 | 392.8 | 380.1 | 379.1 | 367.5 | 364.4 |
| 12.5° | 449.6 | 440.2 | 429.6 | 417.0 | 402.3 | 384.4 | 384.4 | 365.4 | 364.4 | 348.6 | 343.3 |
| 15° | 458.1 | 446.5 | 432.8 | 418.1 | 399.1 | 377.0 | 375.9 | 353.8 | 351.7 | 332.8 | 326.4 |
| 17.5° | 465.4 | 449.6 | 437.0 | 417.0 | 394.9 | 369.6 | 364.4 | 342.2 | 338.0 | 315.9 | 307.5 |
| 20° | 470.7 | 452.8 | 438.1 | 414.9 | 387.5 | 358.0 | 350.7 | 327.5 | 318.0 | 295.9 | 284.3 |
| 22.5° | 477.0 | 460.2 | 440.2 | 413.8 | 383.3 | 348.6 | 332.8 | 311.7 | 298.0 | 274.8 | 259.0 |
| 25° | 486.5 | 471.8 | 447.5 | 417.0 | 380.1 | 339.1 | 318.0 | 295.9 | 277.0 | 253.8 | 230.6 |
| 27.5° | 501.2 | 486.5 | 458.1 | 421.2 | 379.1 | 329.6 | 306.4 | 279.1 | 255.9 | 230.6 | 204.3 |
| 30° | 522.3 | 506.5 | 476.0 | 432.8 | 380.1 | 322.2 | 293.8 | 264.3 | 236.9 | 207.4 | 180.1 |
| 32.5° | 549.7 | 537.1 | 499.1 | 445.4 | 384.4 | 315.9 | 282.2 | 248.5 | 214.8 | 186.4 | 162.2 |
| 35° | 587.6 | 579.2 | 531.8 | 469.7 | 394.9 | 312.8 | 270.6 | 233.8 | 195.9 | 167.4 | 141.1 |
| 37.5° | 643.4 | 631.8 | 579.2 | 504.4 | 411.7 | 310.6 | 262.2 | 215.9 | 180.1 | 149.5 | 127.4 |
| 40° | 714.0 | 698.2 | 635.0 | 546.5 | 438.1 | 311.7 | 254.8 | 202.2 | 166.4 | 133.7 | 115.8 |
| 42.5° | 798.2 | 775.0 | 703.4 | 598.1 | 464.4 | 313.8 | 250.6 | 189.5 | 155.9 | 121.1 | 107.4 |
| 45° | 893.0 | 866.7 | 784.5 | 662.4 | 502.3 | 319.1 | 247.5 | 179.0 | 146.4 | 111.6 | 102.1 |
| 47.5° | 985.6 | 959.3 | 867.7 | 726.6 | 541.3 | 328.5 | 249.6 | 172.7 | 140.1 | 106.4 | 95.8 |
| 50° | 1076.2 | 1048.8 | 941.4 | 784.5 | 575.0 | 341.2 | 258.0 | 173.8 | 139.0 | 104.3 | 92.7 |
| 52.5° | 1156.2 | 1122.5 | 1004.6 | 829.8 | 599.2 | 349.6 | 265.4 | 176.9 | 140.1 | 103.2 | 91.6 |
| 55° | 1236.3 | 1193.1 | 1055.1 | 865.6 | 613.9 | 350.7 | 265.4 | 178.0 | 141.1 | 103.2 | 90.6 |
| 57.5° | 1296.3 | 1246.8 | 1094.1 | 886.7 | 619.2 | 345.4 | 259.0 | 172.7 | 134.8 | 102.1 | 88.5 |
| 60° | 1334.2 | 1281.6 | 1121.5 | 900.4 | 611.8 | 323.3 | 225.4 | 152.7 | 119.0 | 94.8 | 82.1 |
| 62.5° | 1365.8 | 1312.1 | 1129.9 | 877.2 | 549.7 | 256.9 | 175.9 | 124.3 | 99.0 | 84.2 | 75.8 |
| 65° | 1373.2 | 1308.9 | 1070.9 | 775.0 | 429.6 | 178.0 | 127.4 | 97.9 | 81.1 | 74.8 | 68.4 |
| 67.5° | 1261.5 | 1184.7 | 900.4 | 606.6 | 292.7 | 122.2 | 94.8 | 80.0 | 69.5 | 66.3 | 64.2 |
| 70° | 1025.7 | 941.4 | 659.2 | 397.0 | 163.2 | 85.3 | 72.7 | 66.3 | 60.0 | 60.0 | 56.9 |
| 72.5° | 661.3 | 573.9 | 338.0 | 169.5 | 83.2 | 65.3 | 59.0 | 56.9 | 51.6 | 52.7 | 49.5 |
| 74° | 338.0 | 263.3 | 137.9 | 89.5 | 68.4 | 57.9 | 52.7 | 51.6 | 46.3 | 47.4 | 44.2 |
| 75° | 171.6 | 135.8 | 96.9 | 74.8 | 63.2 | 54.8 | 48.4 | 48.4 | 42.1 | 43.2 | 40.0 |
| 77.5° | 80.0 | 76.9 | 66.3 | 59.0 | 53.7 | 46.3 | 40.0 | 39.0 | 32.6 | 34.8 | 30.5 |
| 80° | 55.8 | 55.8 | 51.6 | 49.5 | 44.2 | 37.9 | 30.5 | 30.5 | 24.2 | 25.3 | 22.1 |
| 82.5° | 31.6 | 29.5 | 29.5 | 33.7 | 34.8 | 28.4 | 22.1 | 21.1 | 17.9 | 17.9 | 14.7 |
| 85° | 13.7 | 15.8 | 19.0 | 23.2 | 25.3 | 22.1 | 15.8 | 14.7 | 9.5 | 9.5 | 5.3 |
| 87.5° | 0.0 | 1.1 | 1.1 | 2.1 | 4.2 | 4.2 | 0.0 | 2.1 | 0.0 | 1.1 | 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: P228408
 CATALOG NUMBER: ISC-AF-600-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

| | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 135° | 145° | 155° | 165° |
|-------|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 | 460.2 |
| 2.5° | 440.2 | 434.9 | 438.1 | 432.8 | 434.9 | 429.6 | 431.7 | 428.6 | 425.4 | 421.2 | 420.2 |
| 5° | 411.7 | 407.5 | 406.5 | 401.2 | 402.3 | 398.0 | 393.8 | 388.6 | 382.3 | 373.8 | 370.7 |
| 7.5° | 380.1 | 379.1 | 371.7 | 368.6 | 364.4 | 360.1 | 352.8 | 344.3 | 331.7 | 320.1 | 312.8 |
| 10° | 352.8 | 349.6 | 339.1 | 333.8 | 327.5 | 322.2 | 311.7 | 300.1 | 282.2 | 264.3 | 254.8 |
| 12.5° | 329.6 | 325.4 | 311.7 | 305.4 | 295.9 | 289.6 | 277.0 | 262.2 | 236.9 | 211.7 | 200.1 |
| 15° | 310.6 | 304.3 | 288.5 | 279.1 | 266.4 | 260.1 | 246.4 | 225.4 | 194.8 | 168.5 | 152.7 |
| 17.5° | 288.5 | 280.1 | 263.3 | 251.7 | 239.0 | 227.5 | 213.8 | 191.7 | 156.9 | 132.7 | 116.9 |
| 20° | 264.3 | 253.8 | 235.9 | 220.1 | 206.4 | 195.9 | 182.2 | 160.1 | 125.3 | 106.4 | 97.9 |
| 22.5° | 239.0 | 222.2 | 206.4 | 192.7 | 176.9 | 166.4 | 152.7 | 132.7 | 106.4 | 95.8 | 92.7 |
| 25° | 212.7 | 193.8 | 178.0 | 164.3 | 149.5 | 140.1 | 128.5 | 112.7 | 96.9 | 93.7 | 93.7 |
| 27.5° | 186.4 | 167.4 | 152.7 | 139.0 | 126.4 | 120.0 | 109.5 | 99.0 | 91.6 | 92.7 | 93.7 |
| 30° | 162.2 | 143.2 | 129.5 | 119.0 | 107.4 | 103.2 | 94.8 | 88.5 | 87.4 | 90.6 | 91.6 |
| 32.5° | 141.1 | 124.3 | 111.6 | 103.2 | 93.7 | 91.6 | 84.2 | 81.1 | 84.2 | 88.5 | 87.4 |
| 35° | 123.2 | 109.5 | 96.9 | 91.6 | 83.2 | 82.1 | 76.9 | 74.8 | 79.0 | 84.2 | 84.2 |
| 37.5° | 109.5 | 96.9 | 87.4 | 83.2 | 76.9 | 75.8 | 71.6 | 69.5 | 72.7 | 80.0 | 82.1 |
| 40° | 97.9 | 90.6 | 81.1 | 76.9 | 72.7 | 70.6 | 68.4 | 66.3 | 67.4 | 76.9 | 77.9 |
| 42.5° | 90.6 | 85.3 | 76.9 | 74.8 | 69.5 | 68.4 | 65.3 | 63.2 | 64.2 | 71.6 | 74.8 |
| 45° | 85.3 | 81.1 | 73.7 | 72.7 | 67.4 | 66.3 | 63.2 | 61.1 | 62.1 | 68.4 | 71.6 |
| 47.5° | 81.1 | 76.9 | 70.6 | 68.4 | 65.3 | 64.2 | 62.1 | 60.0 | 60.0 | 66.3 | 69.5 |
| 50° | 79.0 | 74.8 | 68.4 | 66.3 | 63.2 | 62.1 | 60.0 | 57.9 | 59.0 | 64.2 | 66.3 |
| 52.5° | 77.9 | 72.7 | 67.4 | 64.2 | 62.1 | 60.0 | 57.9 | 55.8 | 56.9 | 62.1 | 64.2 |
| 55° | 77.9 | 71.6 | 67.4 | 64.2 | 61.1 | 57.9 | 56.9 | 53.7 | 55.8 | 60.0 | 63.2 |
| 57.5° | 77.9 | 71.6 | 67.4 | 64.2 | 62.1 | 59.0 | 56.9 | 54.8 | 55.8 | 60.0 | 63.2 |
| 60° | 75.8 | 70.6 | 68.4 | 65.3 | 64.2 | 61.1 | 60.0 | 57.9 | 57.9 | 63.2 | 68.4 |
| 62.5° | 72.7 | 69.5 | 68.4 | 66.3 | 66.3 | 64.2 | 64.2 | 62.1 | 62.1 | 68.4 | 73.7 |
| 65° | 68.4 | 66.3 | 67.4 | 66.3 | 66.3 | 66.3 | 65.3 | 65.3 | 65.3 | 70.6 | 76.9 |
| 67.5° | 64.2 | 63.2 | 64.2 | 64.2 | 65.3 | 64.2 | 65.3 | 64.2 | 64.2 | 69.5 | 75.8 |
| 70° | 57.9 | 57.9 | 59.0 | 57.9 | 59.0 | 59.0 | 60.0 | 60.0 | 60.0 | 63.2 | 69.5 |
| 72.5° | 50.5 | 49.5 | 50.5 | 49.5 | 51.6 | 49.5 | 51.6 | 52.7 | 51.6 | 52.7 | 55.8 |
| 74° | 45.3 | 44.2 | 45.3 | 44.2 | 46.3 | 44.2 | 45.3 | 45.3 | 44.2 | 35.8 | 30.5 |
| 75° | 41.1 | 40.0 | 41.1 | 40.0 | 42.1 | 40.0 | 42.1 | 41.1 | 39.0 | 26.3 | 25.3 |
| 77.5° | 32.6 | 29.5 | 32.6 | 29.5 | 31.6 | 28.4 | 30.5 | 26.3 | 20.0 | 19.0 | 19.0 |
| 80° | 24.2 | 21.1 | 23.2 | 20.0 | 19.0 | 14.7 | 15.8 | 14.7 | 13.7 | 14.7 | 14.7 |
| 82.5° | 14.7 | 10.5 | 12.6 | 9.5 | 11.6 | 8.4 | 10.5 | 9.5 | 8.4 | 8.4 | 8.4 |
| 85° | 7.4 | 5.3 | 7.4 | 4.2 | 6.3 | 4.2 | 5.3 | 5.3 | 3.2 | 3.2 | 3.2 |
| 87.5° | 1.1 | 0.0 | 2.1 | 0.0 | 2.1 | 0.0 | 1.1 | 1.1 | 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: P228408

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CANDELA DISTRIBUTION (continued):

| | 175° | 180° |
|-------|-------|-------|
| 0° | 460.2 | 460.2 |
| 2.5° | 417.0 | 418.1 |
| 5° | 365.4 | 368.6 |
| 7.5° | 308.5 | 310.6 |
| 10° | 248.5 | 250.6 |
| 12.5° | 191.7 | 193.8 |
| 15° | 144.3 | 142.2 |
| 17.5° | 110.6 | 108.5 |
| 20° | 93.7 | 93.7 |
| 22.5° | 91.6 | 90.6 |
| 25° | 92.7 | 91.6 |
| 27.5° | 92.7 | 91.6 |
| 30° | 90.6 | 89.5 |
| 32.5° | 87.4 | 86.3 |
| 35° | 84.2 | 84.2 |
| 37.5° | 82.1 | 83.2 |
| 40° | 79.0 | 80.0 |
| 42.5° | 75.8 | 76.9 |
| 45° | 72.7 | 73.7 |
| 47.5° | 69.5 | 69.5 |
| 50° | 65.3 | 65.3 |
| 52.5° | 64.2 | 64.2 |
| 55° | 64.2 | 64.2 |
| 57.5° | 66.3 | 66.3 |
| 60° | 72.7 | 73.7 |
| 62.5° | 85.3 | 86.3 |
| 65° | 97.9 | 100.0 |
| 67.5° | 99.0 | 102.1 |
| 70° | 95.8 | 99.0 |
| 72.5° | 66.3 | 66.3 |
| 74° | 29.5 | 28.4 |
| 75° | 25.3 | 24.2 |
| 77.5° | 19.0 | 19.0 |
| 80° | 13.7 | 12.6 |
| 82.5° | 7.4 | 7.4 |
| 85° | 2.1 | 2.1 |
| 87.5° | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)