

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: P141233

Luminaire Tested: **ECM-F02-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141233
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33692)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F02-LED-E1-SL4-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3934.4 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

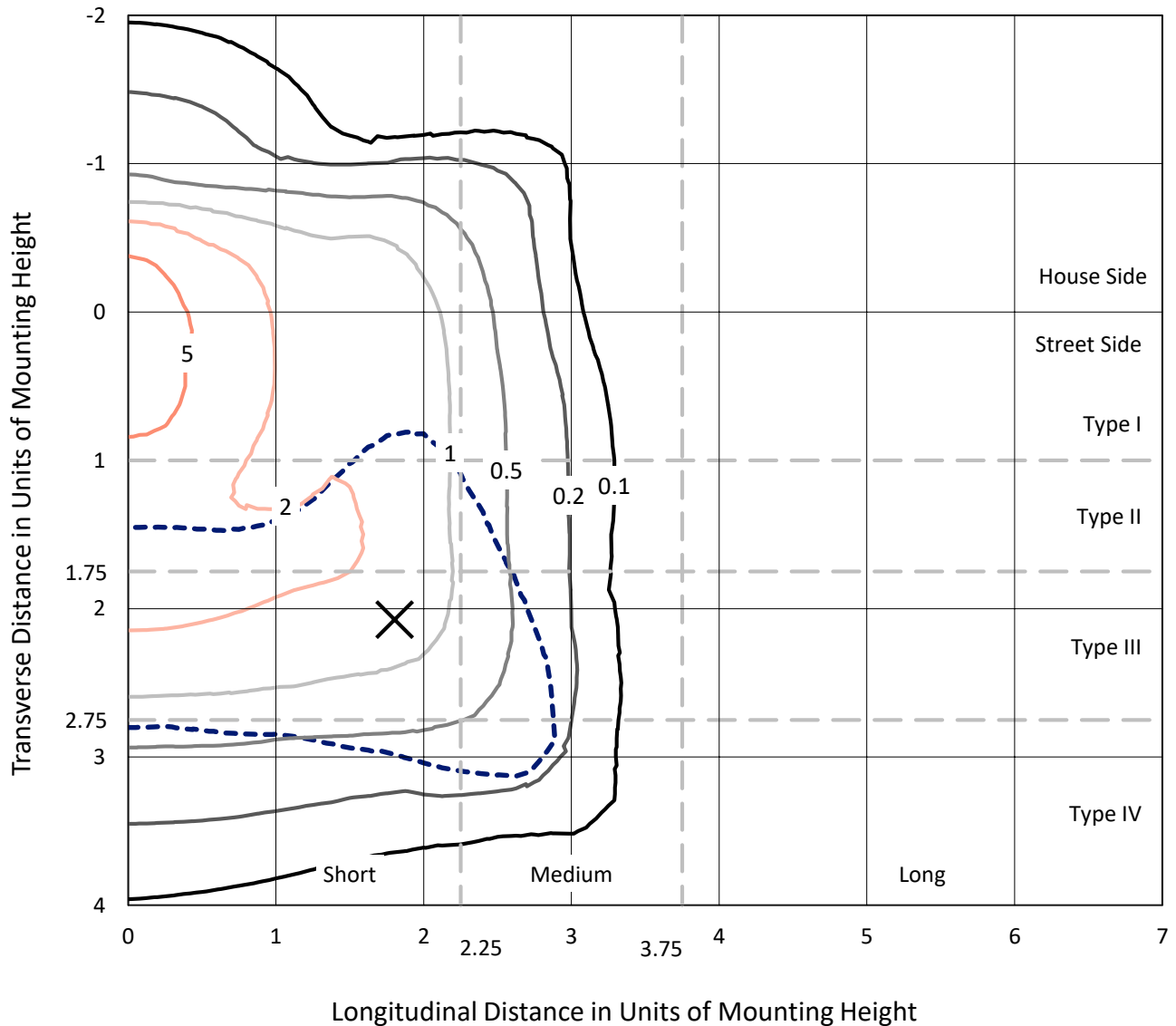
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P141233
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Iso-Footcandle Lines of Horizontal Illumination

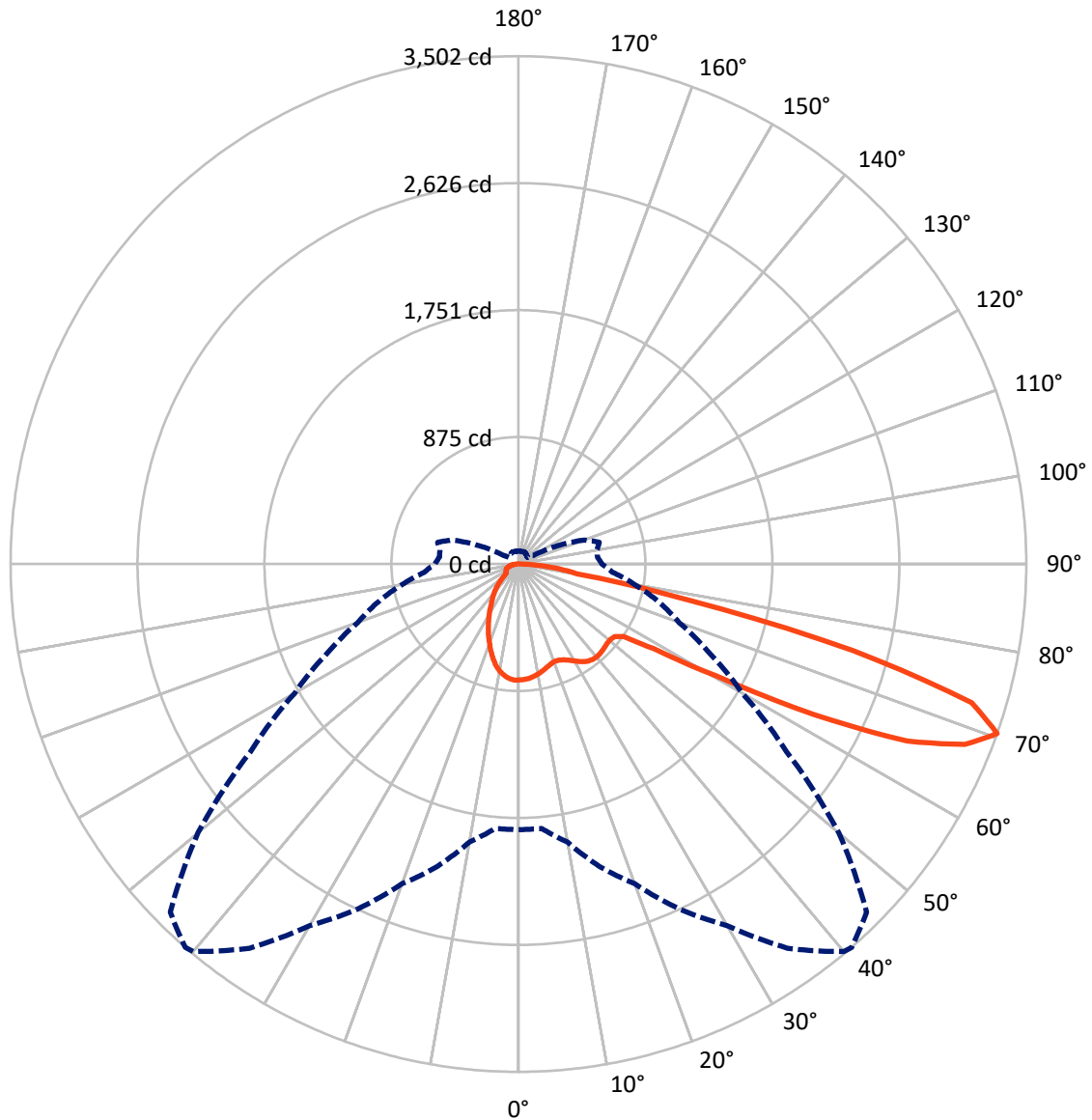
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 844.1 | 0.0 | 844.1 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 3090.3 | 0.0 | 3090.3 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 3934.4 | 0.0 | 3934.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.4 | 1.9 |
| 10°-20° | 199.4 | 5.1 |
| 20°-30° | 288.3 | 7.3 |
| 30°-40° | 366.9 | 9.3 |
| 40°-50° | 432.4 | 11.0 |
| 50°-60° | 661.5 | 16.8 |
| 60°-70° | 1229.6 | 31.3 |
| 70°-80° | 593.4 | 15.1 |
| 80°-90° | 88.6 | 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° | 3934.4 | 100.0 |
| 0°-180° | 3934.4 | 100.0 |



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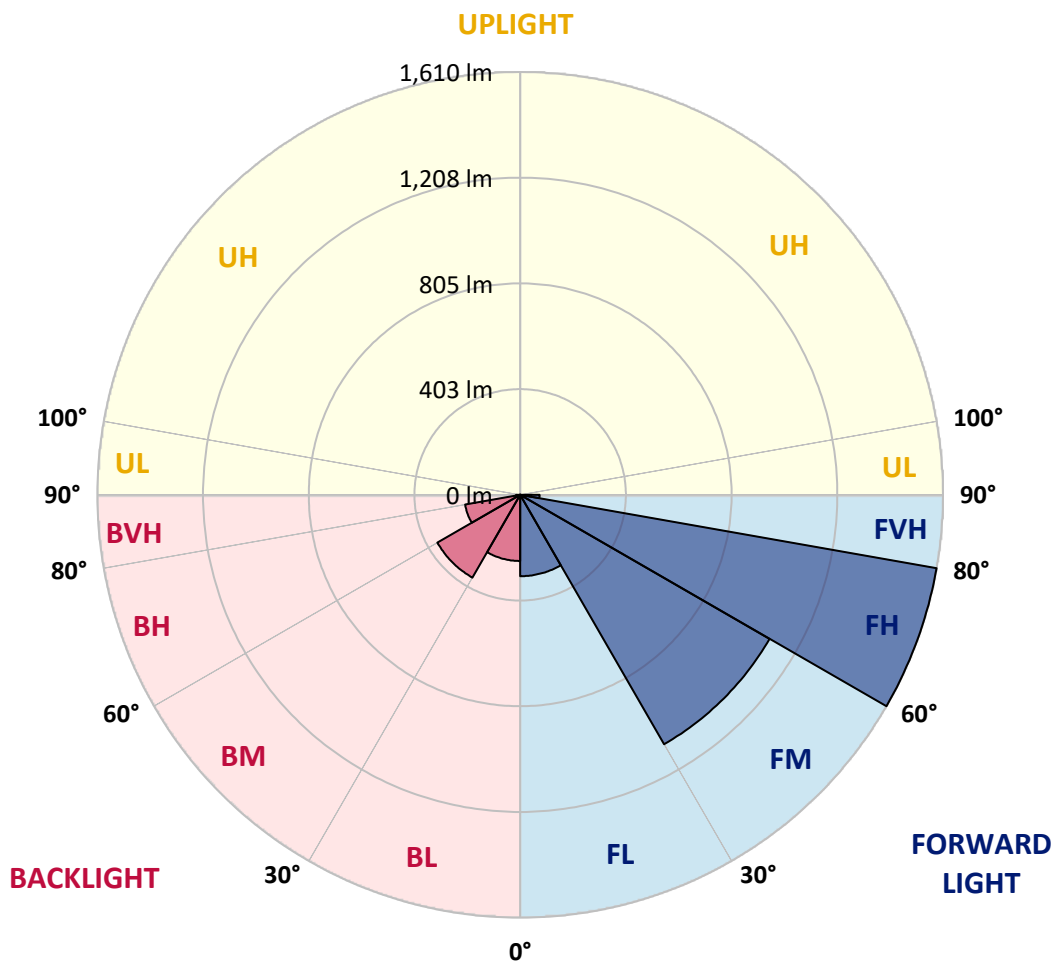
CATALOG NUMBER: ECM-F02-LED-E1-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 309.9 | 7.9 | | | |
| FM (30°-60°) | 1096.6 | 27.9 | | | |
| FH (60°-80°) | 1610.1 | 40.9 | | | G1/1800 |
| FVH (80°-90°) | 73.7 | 1.9 | | | G1/100 |
| BL (0°-30°) | 252.1 | 6.4 | B1/500 | | |
| BM (30°-60°) | 364.2 | 9.3 | B1/1000 | | |
| BH (60°-80°) | 212.9 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 15.0 | 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-G1

Type IV Short





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CATALOG NUMBER: ECM-F02-LED-E1-SL4-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 41° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 |
| 2.5° | 799.4 | 800.3 | 799.9 | 798.9 | 798.0 | 798.5 | 798.0 | 797.5 | 797.5 | 797.1 | 796.6 |
| 5° | 795.7 | 797.5 | 796.1 | 795.2 | 793.8 | 793.8 | 793.3 | 792.4 | 791.5 | 791.0 | 790.1 |
| 7.5° | 787.8 | 789.6 | 788.7 | 787.8 | 786.4 | 785.5 | 783.6 | 782.7 | 781.7 | 781.3 | 779.9 |
| 10° | 777.1 | 778.0 | 777.1 | 775.2 | 774.3 | 773.8 | 772.9 | 771.1 | 769.2 | 768.3 | 766.9 |
| 12.5° | 763.2 | 763.6 | 762.7 | 761.8 | 760.4 | 760.4 | 759.0 | 757.6 | 754.8 | 753.9 | 750.6 |
| 15° | 751.1 | 749.7 | 748.8 | 748.3 | 747.8 | 745.5 | 746.0 | 743.6 | 739.0 | 737.6 | 733.9 |
| 17.5° | 747.8 | 746.4 | 746.0 | 744.6 | 743.6 | 740.9 | 738.1 | 733.4 | 725.5 | 724.1 | 718.6 |
| 20° | 757.1 | 757.1 | 755.7 | 754.8 | 753.4 | 748.3 | 742.3 | 733.4 | 719.0 | 715.8 | 708.8 |
| 22.5° | 779.4 | 777.1 | 776.2 | 776.2 | 775.7 | 768.3 | 757.1 | 743.2 | 724.1 | 720.0 | 707.9 |
| 25° | 814.3 | 810.1 | 811.5 | 811.0 | 810.1 | 799.4 | 783.1 | 763.2 | 737.1 | 731.6 | 715.8 |
| 27.5° | 855.6 | 856.5 | 856.1 | 854.2 | 851.4 | 839.8 | 816.6 | 789.6 | 757.1 | 751.5 | 731.1 |
| 30° | 898.8 | 899.7 | 902.5 | 901.1 | 899.3 | 881.6 | 852.8 | 823.5 | 784.1 | 776.6 | 751.5 |
| 32.5° | 949.0 | 952.2 | 954.5 | 955.0 | 947.6 | 923.4 | 889.5 | 852.3 | 810.5 | 803.1 | 772.0 |
| 35° | 1007.0 | 1005.2 | 1009.3 | 1007.5 | 994.5 | 961.5 | 919.7 | 875.6 | 832.8 | 823.1 | 789.6 |
| 37.5° | 1065.5 | 1067.9 | 1063.7 | 1055.8 | 1035.3 | 992.2 | 940.6 | 890.9 | 843.5 | 834.2 | 799.4 |
| 40° | 1122.2 | 1120.8 | 1111.1 | 1097.6 | 1066.9 | 1011.7 | 952.2 | 897.9 | 847.2 | 837.5 | 801.7 |
| 42.5° | 1164.5 | 1160.8 | 1145.9 | 1124.1 | 1084.6 | 1020.9 | 955.5 | 897.9 | 844.9 | 834.7 | 798.5 |
| 45° | 1183.1 | 1179.3 | 1164.9 | 1137.1 | 1090.2 | 1019.1 | 949.9 | 890.0 | 837.0 | 828.2 | 792.0 |
| 47.5° | 1183.1 | 1181.7 | 1165.9 | 1138.9 | 1088.8 | 1014.0 | 941.5 | 880.2 | 829.1 | 820.3 | 786.4 |
| 50° | 1173.8 | 1172.8 | 1158.9 | 1132.4 | 1084.1 | 1011.2 | 939.2 | 878.4 | 828.7 | 819.8 | 788.7 |
| 52.5° | 1204.9 | 1198.8 | 1184.5 | 1153.8 | 1101.3 | 1022.8 | 950.8 | 887.6 | 839.8 | 831.0 | 798.9 |
| 55° | 1583.4 | 1578.3 | 1505.4 | 1377.2 | 1243.0 | 1120.4 | 1015.4 | 942.9 | 894.6 | 881.1 | 857.9 |
| 57.5° | 2195.6 | 2188.2 | 2113.4 | 1996.8 | 1766.0 | 1503.6 | 1297.8 | 1177.0 | 1109.2 | 1099.4 | 1085.5 |
| 60° | 2444.1 | 2441.4 | 2409.8 | 2362.4 | 2275.1 | 2139.4 | 1948.1 | 1747.4 | 1591.3 | 1566.3 | 1568.1 |
| 62.5° | 2586.7 | 2579.8 | 2564.5 | 2552.8 | 2523.1 | 2467.8 | 2432.1 | 2375.9 | 2300.2 | 2283.0 | 2174.3 |
| 65° | 2666.6 | 2665.7 | 2674.1 | 2683.8 | 2682.0 | 2698.7 | 2716.8 | 2824.1 | 2950.0 | 2944.4 | 2829.7 |
| 67.5° | 2547.7 | 2555.6 | 2599.3 | 2666.2 | 2736.3 | 2810.6 | 2949.0 | 3164.1 | 3319.7 | 3319.7 | 3218.9 |
| 70° | 1831.5 | 1830.1 | 1946.2 | 2158.0 | 2346.6 | 2624.4 | 2879.4 | 3233.8 | 3488.3 | 3501.8 | 3395.0 |
| 72.5° | 1097.6 | 1123.1 | 1194.7 | 1290.8 | 1451.1 | 1787.4 | 2261.6 | 2898.4 | 3253.8 | 3268.2 | 3140.4 |
| 75° | 771.1 | 752.0 | 749.2 | 754.8 | 782.2 | 864.9 | 1125.9 | 1779.0 | 2358.7 | 2381.0 | 2257.4 |
| 77.5° | 493.3 | 489.1 | 491.0 | 497.0 | 498.4 | 506.3 | 518.8 | 609.9 | 1093.4 | 1200.2 | 1194.7 |
| 80° | 425.5 | 424.1 | 424.5 | 417.6 | 404.1 | 399.0 | 414.8 | 402.2 | 390.6 | 406.9 | 384.6 |
| 82.5° | 285.2 | 290.3 | 298.7 | 309.8 | 336.8 | 346.0 | 340.9 | 338.6 | 301.9 | 293.6 | 260.6 |
| 85° | 211.3 | 208.6 | 211.8 | 211.8 | 204.8 | 197.9 | 203.0 | 197.9 | 175.1 | 164.0 | 144.9 |
| 87.5° | 114.3 | 114.7 | 124.0 | 127.7 | 127.3 | 108.7 | 89.6 | 77.6 | 70.1 | 65.0 | 54.8 |
| 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: ECM-F02-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 |
| 2.5° | 797.1 | 795.7 | 796.1 | 796.1 | 795.7 | 796.6 | 795.2 | 794.7 | 795.2 | 795.2 | 795.2 |
| 5° | 789.2 | 787.3 | 787.3 | 786.8 | 785.9 | 785.9 | 784.1 | 783.6 | 782.7 | 784.1 | 783.1 |
| 7.5° | 778.0 | 775.2 | 772.9 | 771.1 | 770.1 | 768.7 | 766.4 | 765.5 | 764.6 | 764.1 | 763.2 |
| 10° | 764.6 | 761.3 | 756.7 | 752.9 | 751.1 | 747.4 | 744.6 | 740.9 | 740.9 | 739.0 | 737.1 |
| 12.5° | 748.3 | 743.6 | 739.0 | 733.9 | 730.6 | 725.5 | 720.9 | 716.7 | 713.5 | 709.3 | 706.5 |
| 15° | 732.0 | 725.1 | 720.0 | 714.9 | 708.8 | 701.8 | 696.3 | 689.8 | 683.7 | 677.2 | 675.4 |
| 17.5° | 714.4 | 708.8 | 704.2 | 698.1 | 691.6 | 683.3 | 675.8 | 665.2 | 657.7 | 649.8 | 643.8 |
| 20° | 702.8 | 696.3 | 691.2 | 685.6 | 678.6 | 668.9 | 659.1 | 647.0 | 635.9 | 624.3 | 615.4 |
| 22.5° | 696.7 | 686.1 | 681.4 | 676.3 | 669.3 | 658.6 | 647.5 | 632.6 | 618.7 | 603.4 | 589.4 |
| 25° | 699.1 | 684.7 | 675.4 | 669.8 | 663.8 | 653.1 | 638.7 | 622.0 | 606.2 | 586.7 | 570.9 |
| 27.5° | 709.3 | 689.8 | 675.4 | 666.1 | 659.6 | 648.4 | 633.6 | 614.5 | 595.5 | 575.0 | 556.0 |
| 30° | 722.7 | 698.1 | 679.5 | 666.1 | 656.3 | 644.2 | 628.0 | 607.6 | 586.7 | 563.9 | 542.1 |
| 32.5° | 738.1 | 707.9 | 685.6 | 667.0 | 651.2 | 635.9 | 619.2 | 597.8 | 576.0 | 551.8 | 530.4 |
| 35° | 750.2 | 715.3 | 689.8 | 665.2 | 644.2 | 625.2 | 605.7 | 585.7 | 563.9 | 541.1 | 518.4 |
| 37.5° | 757.1 | 720.0 | 689.8 | 658.6 | 633.1 | 613.1 | 592.7 | 573.2 | 552.3 | 530.0 | 510.0 |
| 40° | 759.9 | 721.8 | 687.0 | 651.2 | 621.5 | 598.7 | 579.7 | 559.7 | 541.1 | 521.6 | 504.0 |
| 42.5° | 758.5 | 720.4 | 683.3 | 644.2 | 612.2 | 587.6 | 566.7 | 548.1 | 532.8 | 516.5 | 501.6 |
| 45° | 752.9 | 715.8 | 679.5 | 641.0 | 608.9 | 583.9 | 562.5 | 544.8 | 530.4 | 515.6 | 504.0 |
| 47.5° | 748.3 | 713.9 | 681.9 | 648.9 | 618.2 | 592.7 | 569.5 | 550.0 | 537.9 | 526.3 | 518.8 |
| 50° | 752.0 | 719.0 | 687.0 | 655.9 | 626.1 | 600.1 | 576.4 | 558.3 | 551.4 | 549.5 | 547.2 |
| 52.5° | 762.2 | 729.7 | 702.8 | 680.9 | 667.5 | 657.7 | 633.6 | 629.4 | 623.3 | 620.1 | 612.2 |
| 55° | 828.7 | 815.2 | 839.3 | 865.8 | 870.5 | 899.7 | 911.3 | 912.3 | 902.0 | 865.8 | 781.3 |
| 57.5° | 1099.0 | 1132.4 | 1142.6 | 1204.0 | 1220.7 | 1207.7 | 1190.0 | 1189.1 | 1157.5 | 1109.7 | 986.6 |
| 60° | 1582.1 | 1564.4 | 1542.6 | 1502.6 | 1465.0 | 1424.6 | 1368.9 | 1326.1 | 1285.7 | 1212.3 | 1082.7 |
| 62.5° | 2087.4 | 1933.7 | 1821.7 | 1707.0 | 1614.1 | 1532.8 | 1452.0 | 1383.3 | 1317.8 | 1216.0 | 1077.2 |
| 65° | 2525.9 | 2212.8 | 1985.7 | 1813.4 | 1669.4 | 1550.5 | 1443.2 | 1349.3 | 1266.7 | 1139.4 | 998.7 |
| 67.5° | 2811.1 | 2361.0 | 2021.5 | 1764.1 | 1560.7 | 1409.3 | 1251.3 | 1103.2 | 1021.9 | 919.2 | 847.7 |
| 70° | 2884.0 | 2256.5 | 1782.7 | 1452.9 | 1178.9 | 998.2 | 811.9 | 650.3 | 575.5 | 546.7 | 549.0 |
| 72.5° | 2601.6 | 1783.6 | 1263.9 | 924.3 | 723.7 | 573.6 | 466.3 | 358.6 | 280.1 | 235.0 | 229.5 |
| 75° | 1699.6 | 992.6 | 600.1 | 418.0 | 332.6 | 264.8 | 208.6 | 175.6 | 151.4 | 122.2 | 102.2 |
| 77.5° | 642.4 | 378.1 | 269.4 | 219.7 | 162.6 | 113.3 | 88.3 | 74.3 | 68.3 | 66.4 | 59.9 |
| 80° | 329.3 | 262.4 | 187.7 | 123.6 | 86.4 | 69.2 | 58.1 | 49.2 | 45.5 | 43.7 | 44.6 |
| 82.5° | 222.0 | 165.4 | 103.6 | 74.3 | 59.9 | 51.6 | 40.9 | 34.4 | 30.7 | 30.2 | 32.5 |
| 85° | 123.6 | 82.7 | 60.4 | 50.2 | 44.1 | 38.6 | 31.1 | 25.5 | 23.7 | 25.1 | 29.3 |
| 87.5° | 38.6 | 38.1 | 27.4 | 22.3 | 23.2 | 20.0 | 14.9 | 11.1 | 11.1 | 14.4 | 20.4 |
| 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: ECM-F02-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 |
| 2.5° | 795.2 | 796.1 | 798.0 | 796.6 | 797.1 | 797.5 | 798.9 | 800.8 | 799.4 | 798.5 | 801.2 |
| 5° | 784.1 | 784.1 | 786.4 | 785.5 | 787.3 | 789.2 | 790.1 | 793.3 | 792.4 | 791.5 | 795.2 |
| 7.5° | 763.6 | 764.1 | 767.3 | 766.4 | 770.1 | 770.6 | 774.3 | 777.1 | 777.1 | 779.0 | 782.2 |
| 10° | 737.6 | 737.6 | 740.4 | 740.9 | 743.2 | 745.0 | 749.2 | 754.3 | 755.3 | 758.5 | 763.2 |
| 12.5° | 708.3 | 707.4 | 709.7 | 709.7 | 711.6 | 713.9 | 718.6 | 724.6 | 725.5 | 730.6 | 736.7 |
| 15° | 672.1 | 670.7 | 669.8 | 670.7 | 671.7 | 672.1 | 679.1 | 685.1 | 688.8 | 694.4 | 700.5 |
| 17.5° | 637.3 | 632.2 | 629.8 | 629.8 | 630.3 | 630.3 | 633.1 | 640.1 | 645.2 | 654.0 | 662.8 |
| 20° | 606.2 | 597.3 | 594.1 | 586.7 | 585.3 | 582.0 | 584.3 | 592.2 | 601.5 | 608.5 | 615.4 |
| 22.5° | 576.9 | 567.6 | 558.3 | 549.5 | 542.5 | 538.3 | 542.5 | 547.6 | 550.9 | 556.5 | 558.3 |
| 25° | 554.6 | 539.3 | 526.3 | 512.3 | 504.9 | 501.2 | 500.7 | 500.3 | 497.5 | 496.5 | 496.5 |
| 27.5° | 537.0 | 518.8 | 499.3 | 484.0 | 473.8 | 466.8 | 458.9 | 453.3 | 446.4 | 437.1 | 432.4 |
| 30° | 522.1 | 502.6 | 481.2 | 463.1 | 450.1 | 436.6 | 420.4 | 407.8 | 395.3 | 384.1 | 374.4 |
| 32.5° | 508.6 | 488.6 | 467.7 | 448.7 | 426.4 | 403.2 | 382.7 | 367.9 | 346.0 | 331.2 | 318.6 |
| 35° | 498.4 | 478.4 | 458.9 | 433.8 | 403.2 | 373.5 | 347.0 | 325.1 | 302.8 | 283.3 | 266.6 |
| 37.5° | 491.0 | 474.2 | 453.3 | 419.4 | 380.9 | 345.1 | 317.2 | 291.2 | 264.8 | 238.3 | 217.4 |
| 40° | 488.6 | 474.2 | 447.8 | 403.6 | 359.5 | 321.0 | 288.9 | 256.9 | 227.6 | 199.3 | 177.9 |
| 42.5° | 490.0 | 474.7 | 438.9 | 389.7 | 341.9 | 300.1 | 263.8 | 226.7 | 191.8 | 161.6 | 140.3 |
| 45° | 495.1 | 474.7 | 429.7 | 374.4 | 325.6 | 281.0 | 237.8 | 193.7 | 153.3 | 129.1 | 119.8 |
| 47.5° | 510.5 | 478.0 | 422.2 | 363.2 | 311.2 | 260.1 | 208.6 | 158.4 | 124.0 | 113.8 | 113.8 |
| 50° | 534.2 | 487.7 | 421.3 | 354.9 | 295.0 | 236.0 | 172.3 | 124.9 | 109.6 | 109.2 | 111.9 |
| 52.5° | 574.6 | 504.9 | 425.9 | 349.3 | 277.8 | 203.4 | 134.2 | 107.8 | 104.5 | 107.3 | 111.5 |
| 55° | 653.1 | 535.1 | 432.4 | 339.1 | 249.0 | 159.3 | 110.1 | 102.2 | 103.6 | 106.8 | 110.5 |
| 57.5° | 796.6 | 595.9 | 439.4 | 317.2 | 201.6 | 120.8 | 99.9 | 100.3 | 102.7 | 105.9 | 109.2 |
| 60° | 895.5 | 671.2 | 453.3 | 280.6 | 150.0 | 99.9 | 95.7 | 99.4 | 102.2 | 104.5 | 107.3 |
| 62.5° | 903.9 | 698.6 | 463.6 | 239.2 | 111.5 | 91.0 | 92.0 | 97.5 | 101.3 | 102.2 | 103.6 |
| 65° | 853.7 | 663.3 | 434.3 | 197.4 | 92.4 | 86.4 | 89.6 | 94.8 | 98.5 | 98.9 | 100.3 |
| 67.5° | 744.1 | 589.4 | 370.7 | 150.0 | 84.5 | 83.1 | 86.9 | 90.1 | 92.9 | 95.2 | 97.1 |
| 70° | 576.4 | 481.2 | 298.2 | 116.6 | 78.5 | 78.0 | 81.3 | 85.0 | 87.8 | 90.1 | 92.9 |
| 72.5° | 303.8 | 341.9 | 222.0 | 93.4 | 72.0 | 72.5 | 75.7 | 79.0 | 80.8 | 83.1 | 85.9 |
| 75° | 94.3 | 144.9 | 137.0 | 74.8 | 64.1 | 66.0 | 67.8 | 70.6 | 73.9 | 75.2 | 76.6 |
| 77.5° | 55.7 | 59.0 | 71.5 | 58.5 | 55.7 | 57.1 | 59.5 | 61.8 | 64.1 | 66.0 | 67.4 |
| 80° | 45.1 | 46.0 | 46.4 | 46.4 | 46.4 | 48.3 | 50.2 | 53.4 | 55.3 | 56.2 | 56.7 |
| 82.5° | 35.3 | 37.6 | 38.1 | 37.2 | 38.6 | 40.4 | 41.3 | 43.2 | 43.7 | 44.6 | 45.5 |
| 85° | 29.3 | 28.8 | 29.7 | 30.2 | 28.3 | 28.3 | 27.4 | 27.4 | 29.3 | 32.5 | 33.0 |
| 87.5° | 22.8 | 20.0 | 16.3 | 15.3 | 14.4 | 13.5 | 12.5 | 12.5 | 13.0 | 14.9 | 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: P141233

CATALOG NUMBER: ECM-F02-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

| | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 799.4 | 799.4 | 799.4 | 799.4 | 799.4 |
| 2.5° | 801.2 | 800.8 | 801.7 | 803.1 | 802.2 |
| 5° | 795.7 | 795.7 | 797.5 | 798.9 | 798.0 |
| 7.5° | 784.5 | 785.0 | 787.8 | 789.6 | 788.7 |
| 10° | 766.9 | 767.8 | 771.1 | 773.8 | 775.2 |
| 12.5° | 740.4 | 743.6 | 747.8 | 750.6 | 750.6 |
| 15° | 707.0 | 712.1 | 716.7 | 720.9 | 718.6 |
| 17.5° | 668.9 | 674.9 | 680.9 | 683.3 | 680.9 |
| 20° | 622.9 | 623.3 | 627.1 | 629.4 | 628.5 |
| 22.5° | 560.2 | 558.3 | 560.2 | 561.1 | 562.5 |
| 25° | 496.1 | 492.8 | 491.0 | 493.8 | 495.1 |
| 27.5° | 430.6 | 425.9 | 427.3 | 424.1 | 420.4 |
| 30° | 366.9 | 362.8 | 357.7 | 356.3 | 358.6 |
| 32.5° | 310.7 | 300.1 | 295.9 | 288.0 | 291.2 |
| 35° | 251.3 | 240.6 | 230.4 | 227.6 | 225.7 |
| 37.5° | 202.5 | 189.5 | 177.0 | 172.8 | 171.9 |
| 40° | 158.4 | 147.7 | 139.3 | 137.0 | 136.1 |
| 42.5° | 128.7 | 124.0 | 122.6 | 122.6 | 123.1 |
| 45° | 117.5 | 118.0 | 119.4 | 120.3 | 120.8 |
| 47.5° | 115.2 | 117.1 | 118.9 | 120.8 | 121.2 |
| 50° | 115.2 | 116.6 | 118.0 | 119.8 | 120.3 |
| 52.5° | 114.3 | 115.7 | 116.1 | 117.1 | 118.0 |
| 55° | 113.3 | 113.8 | 113.8 | 114.3 | 115.2 |
| 57.5° | 111.0 | 111.5 | 110.5 | 111.0 | 112.9 |
| 60° | 108.7 | 109.2 | 108.2 | 109.2 | 109.6 |
| 62.5° | 105.4 | 105.4 | 105.0 | 105.4 | 105.9 |
| 65° | 101.7 | 100.3 | 101.3 | 100.8 | 101.3 |
| 67.5° | 97.1 | 95.2 | 94.8 | 94.8 | 95.2 |
| 70° | 90.6 | 89.2 | 88.7 | 89.6 | 90.6 |
| 72.5° | 82.7 | 83.6 | 85.0 | 86.4 | 88.7 |
| 75° | 77.1 | 78.5 | 80.4 | 85.0 | 88.3 |
| 77.5° | 69.2 | 68.7 | 70.6 | 75.7 | 80.4 |
| 80° | 57.6 | 58.1 | 57.6 | 59.0 | 59.9 |
| 82.5° | 44.1 | 43.7 | 42.3 | 42.3 | 41.3 |
| 85° | 31.1 | 29.7 | 27.9 | 27.4 | 26.9 |
| 87.5° | 15.8 | 16.7 | 15.3 | 13.9 | 13.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)