

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: EPHESUS

Report Number: P575087

Luminaire Tested: **EPH-VN-07-730-U-RW**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575087
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-730-U-RW
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

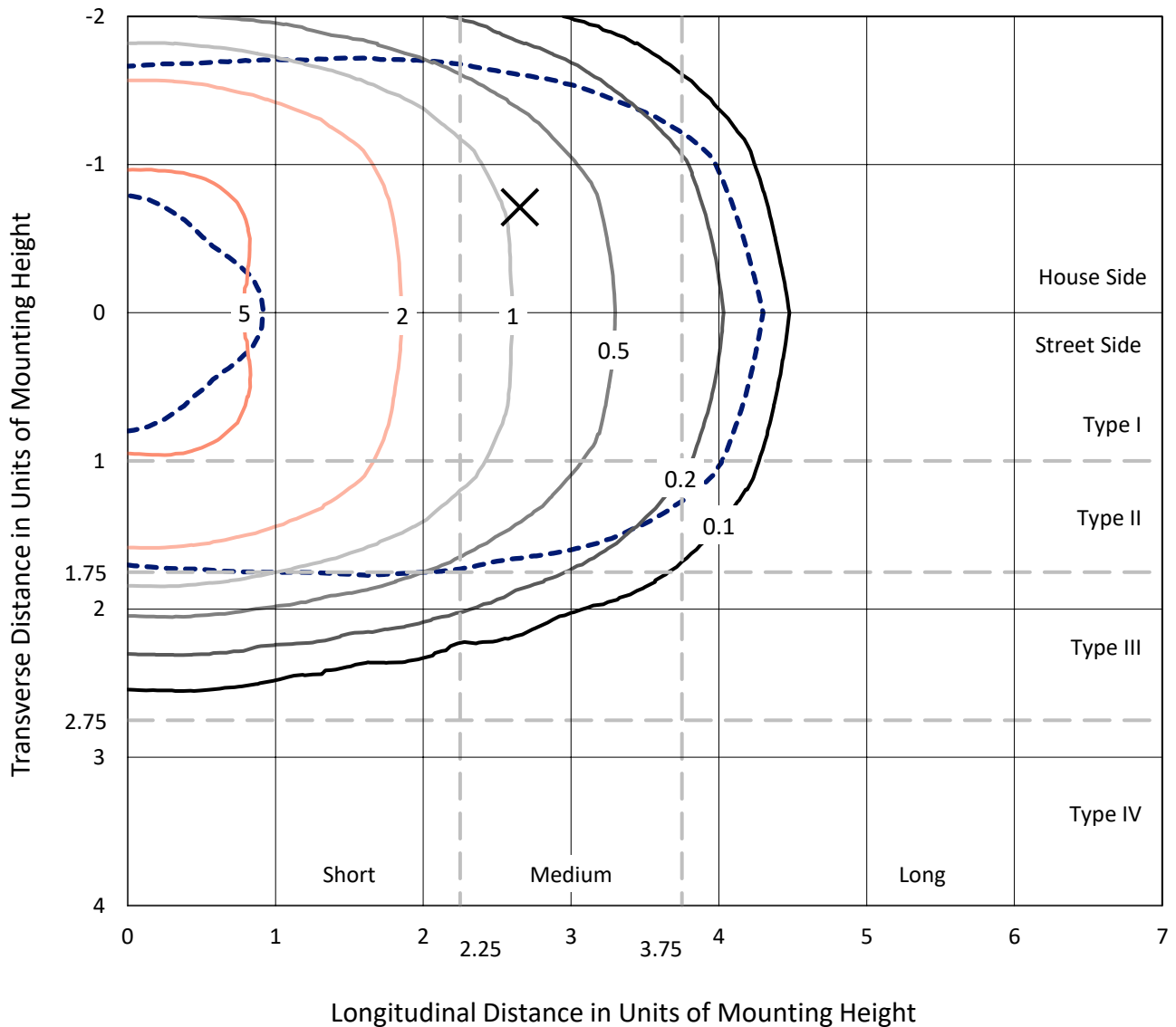
Lumens per Lamp: N/A
Luminaire Lumens: 52948.2 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 532.7
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: 24 FT

REPORT NUMBER: P575087
 CATALOG NUMBER: EPH-VN-07-730-U-RW

Iso-Footcandle Lines of Horizontal Illumination

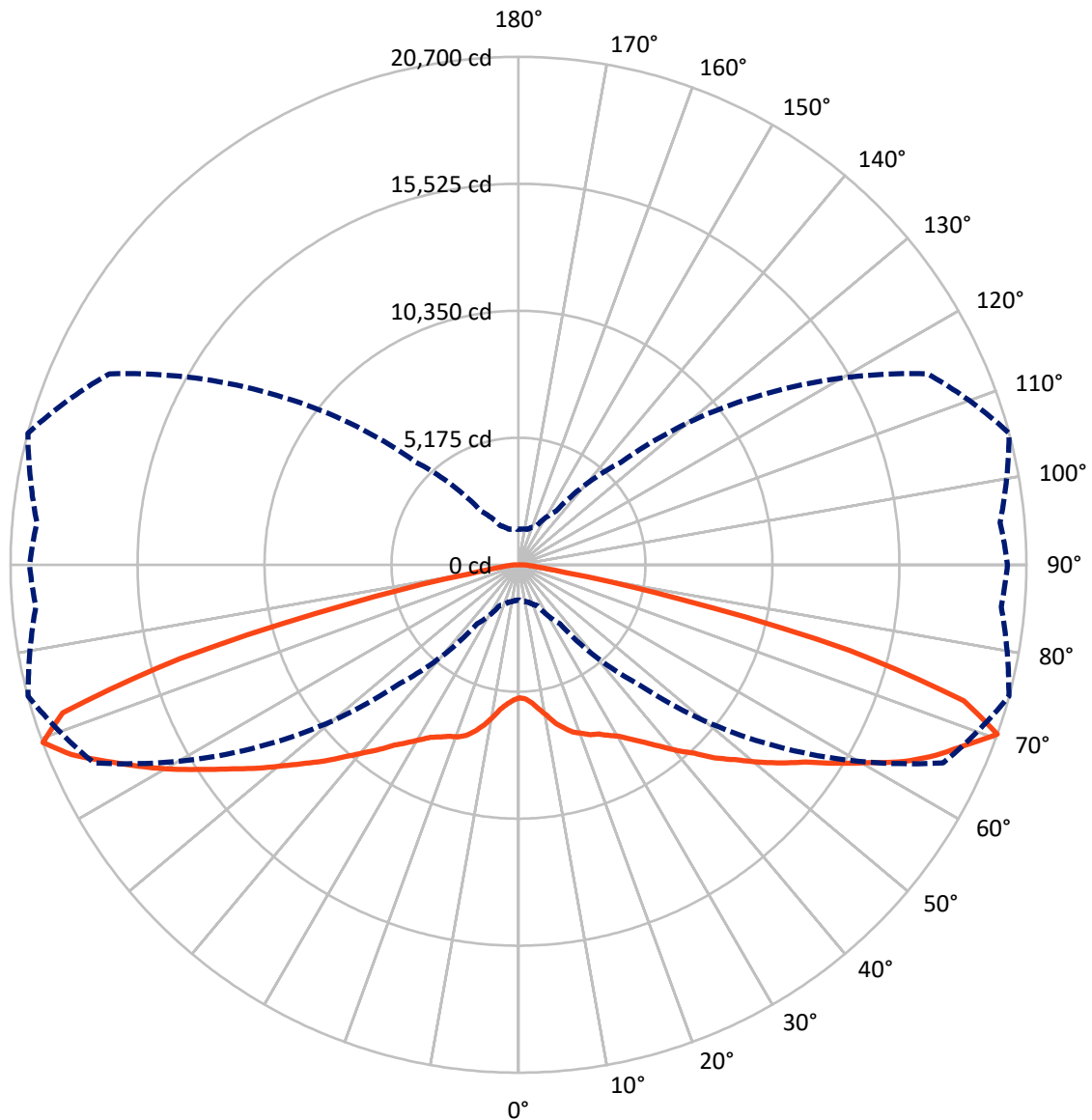
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

REPORT NUMBER: P575087
CATALOG NUMBER: EPH-VN-07-730-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P575087
 CATALOG NUMBER: EPH-VN-07-730-U-RW

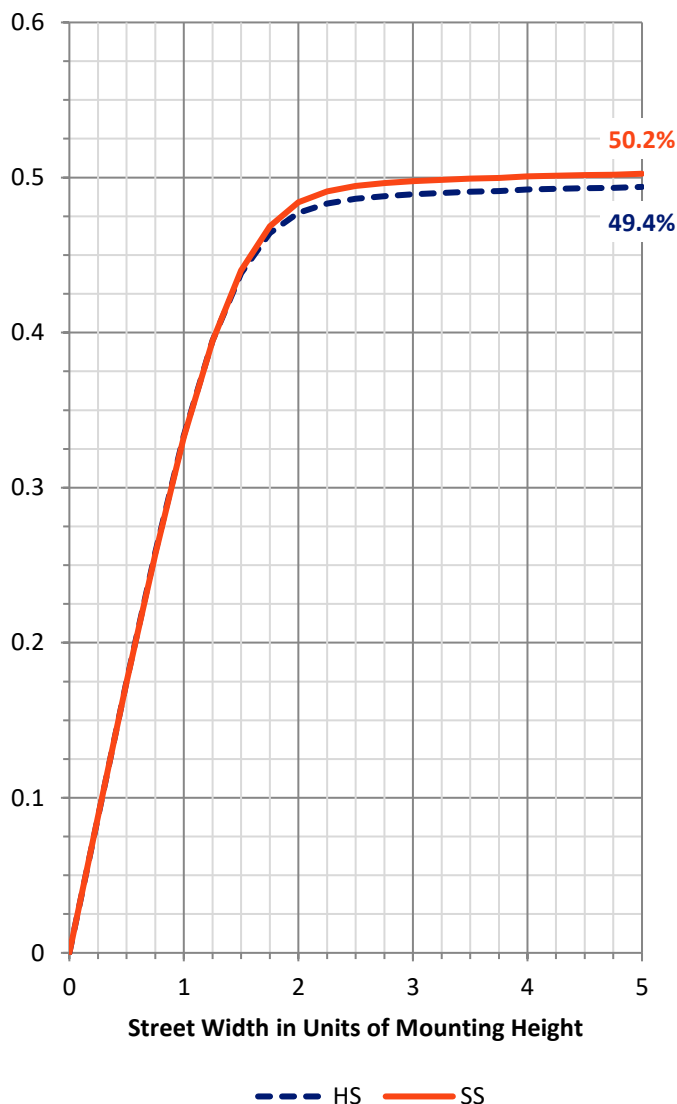
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 26285.8 | 0.0 | 26285.8 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 26662.5 | 0.0 | 26662.5 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 52948.2 | 0.0 | 52948.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 539.7 | 1.0 |
| 10°-20° | 1837.5 | 3.5 |
| 20°-30° | 3558.0 | 6.7 |
| 30°-40° | 6018.0 | 11.4 |
| 40°-50° | 9600.6 | 18.1 |
| 50°-60° | 13141.1 | 24.8 |
| 60°-70° | 12386.3 | 23.4 |
| 70°-80° | 5456.5 | 10.3 |
| 80°-90° | 410.6 | 0.8 |
| 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° | 52948.2 | 100.0 |
| 0°-180° | 52948.2 | 100.0 |

Coefficient of Utilization

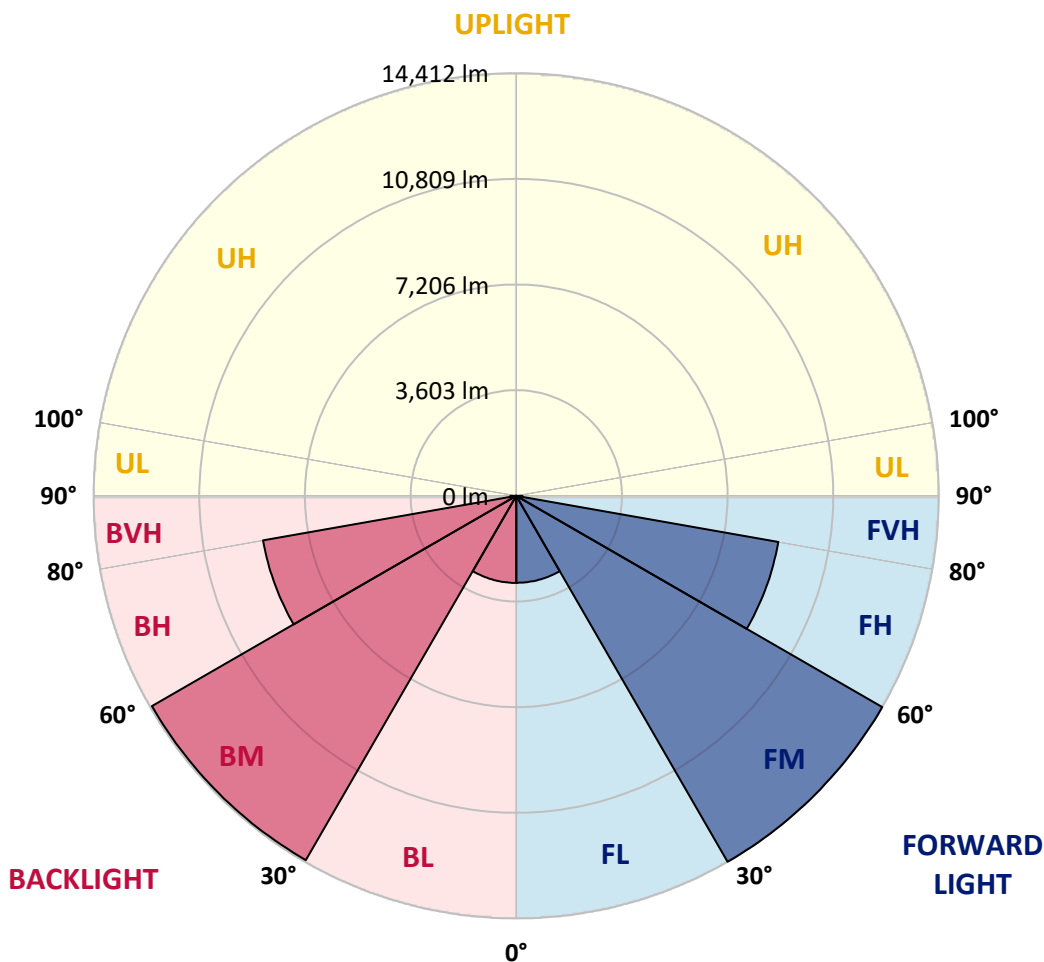


REPORT NUMBER: P575087
 CATALOG NUMBER: EPH-VN-07-730-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2965.9 | 5.6 | | | |
| FM (30°-60°) | 14412.0 | 27.2 | | | |
| FH (60°-80°) | 9074.8 | 17.1 | | | G4/12000 |
| FVH (80°-90°) | 209.7 | 0.4 | | | G2/225 |
| BL (0°-30°) | 2969.2 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 14347.6 | 27.1 | B5 | | |
| BH (60°-80°) | 8768.1 | 16.6 | B5 | | G5 |
| BVH (80°-90°) | 200.8 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type II Short





REPORT NUMBER: P575087
 CATALOG NUMBER: EPH-VN-07-730-U-RW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5421.8 | 5421.8 | 5421.8 | 5421.8 | 5421.8 | 5421.8 | 5421.8 | 5421.8 | 5421.8 | 5421.8 |
| 2.5° | 5387.6 | 5387.6 | 5381.9 | 5410.4 | 5439.0 | 5450.4 | 5473.2 | 5478.9 | 5513.2 | 5484.6 |
| 5° | 5370.5 | 5364.8 | 5410.4 | 5478.9 | 5478.9 | 5553.1 | 5598.8 | 5661.5 | 5678.7 | 5712.9 |
| 7.5° | 5490.3 | 5478.9 | 5456.1 | 5530.3 | 5593.1 | 5707.2 | 5770.0 | 5878.4 | 5918.4 | 5964.0 |
| 10° | 5564.5 | 5564.5 | 5541.7 | 5673.0 | 5730.0 | 5884.1 | 6021.1 | 6129.5 | 6283.6 | 6335.0 |
| 12.5° | 5575.9 | 5593.1 | 5661.5 | 5832.8 | 5992.6 | 6192.3 | 6295.0 | 6500.5 | 6654.6 | 6751.6 |
| 15° | 5747.2 | 5712.9 | 5787.1 | 6021.1 | 6255.1 | 6432.0 | 6614.7 | 6763.0 | 6985.6 | 7111.2 |
| 17.5° | 5901.3 | 5867.0 | 6004.0 | 6283.6 | 6523.3 | 6797.3 | 6957.1 | 7116.9 | 7276.7 | 7390.8 |
| 20° | 6146.7 | 6175.2 | 6295.0 | 6597.5 | 6911.4 | 7151.1 | 7333.8 | 7362.3 | 7442.2 | 7607.7 |
| 22.5° | 6449.1 | 6426.3 | 6677.4 | 7008.4 | 7350.9 | 7550.6 | 7653.4 | 7579.2 | 7539.2 | 7716.1 |
| 25° | 6751.6 | 6820.1 | 7048.4 | 7356.6 | 7767.5 | 8035.7 | 8064.3 | 7858.8 | 7710.4 | 7773.2 |
| 27.5° | 7213.9 | 7225.3 | 7465.0 | 7830.3 | 8246.9 | 8480.9 | 8463.8 | 8172.7 | 7887.4 | 7893.1 |
| 30° | 7807.5 | 7750.4 | 8012.9 | 8343.9 | 8754.9 | 8966.0 | 8994.6 | 8577.9 | 8195.5 | 8081.4 |
| 32.5° | 8378.2 | 8446.7 | 8675.0 | 9051.6 | 9354.1 | 9474.0 | 9411.2 | 9040.2 | 8543.7 | 8389.6 |
| 35° | 9108.7 | 9097.3 | 9411.2 | 9730.8 | 9959.1 | 9981.9 | 9930.5 | 9388.4 | 8920.4 | 8720.6 |
| 37.5° | 9890.6 | 9993.3 | 10198.8 | 10461.3 | 10701.0 | 10712.4 | 10432.8 | 9999.0 | 9422.6 | 9091.6 |
| 40° | 10763.8 | 10877.9 | 11026.3 | 11408.7 | 11585.6 | 11403.0 | 11117.6 | 10529.8 | 9930.5 | 9639.5 |
| 42.5° | 11534.3 | 11585.6 | 11888.1 | 12339.0 | 12424.6 | 12344.7 | 11922.4 | 11209.0 | 10512.7 | 10193.1 |
| 45° | 12242.0 | 12310.4 | 12704.2 | 13109.5 | 13309.2 | 13172.2 | 12681.4 | 12002.3 | 11191.8 | 10917.9 |
| 47.5° | 12892.6 | 13029.6 | 13411.9 | 13828.6 | 14136.7 | 14148.2 | 13543.2 | 12721.4 | 11865.3 | 11505.7 |
| 50° | 13332.0 | 13531.8 | 13908.5 | 14382.2 | 14833.0 | 15010.0 | 14405.0 | 13520.4 | 12601.5 | 12219.1 |
| 52.5° | 13571.7 | 13777.2 | 14153.9 | 14890.1 | 15392.3 | 15666.3 | 15380.9 | 14268.0 | 13463.3 | 13063.8 |
| 55° | 13280.7 | 13417.6 | 14034.0 | 15067.0 | 15843.2 | 16294.1 | 16105.7 | 15301.0 | 14319.4 | 13994.1 |
| 57.5° | 12042.2 | 12327.6 | 13086.6 | 14376.5 | 15831.8 | 16939.0 | 16921.9 | 16277.0 | 15306.7 | 14998.5 |
| 60° | 9913.4 | 10153.1 | 11089.1 | 12892.6 | 15192.6 | 17201.5 | 17806.5 | 17224.3 | 16413.9 | 16054.4 |
| 62.5° | 6997.0 | 7299.5 | 8383.9 | 10352.9 | 13309.2 | 16836.3 | 18822.4 | 18417.2 | 17498.3 | 17235.8 |
| 65° | 3915.1 | 4097.8 | 5102.2 | 6882.9 | 10141.7 | 14827.3 | 19005.0 | 19655.6 | 18599.8 | 18200.3 |
| 67.5° | 2094.5 | 2163.0 | 2631.0 | 3612.7 | 6203.7 | 11431.5 | 17161.6 | 20369.0 | 19792.6 | 19102.0 |
| 70° | 1438.2 | 1461.0 | 1580.9 | 1849.1 | 2933.5 | 6837.2 | 12943.9 | 19096.3 | 20688.6 | 19746.9 |
| 72.5° | 1215.6 | 1204.2 | 1232.8 | 1261.3 | 1535.2 | 3059.1 | 7596.3 | 14696.1 | 19530.1 | 19176.2 |
| 75° | 1055.8 | 1050.1 | 1061.5 | 1033.0 | 1067.2 | 1346.9 | 3361.5 | 9160.1 | 14296.6 | 15957.3 |
| 77.5° | 873.2 | 878.9 | 884.6 | 856.1 | 844.7 | 890.3 | 1352.6 | 4023.6 | 7037.0 | 7767.5 |
| 80° | 662.0 | 673.5 | 719.1 | 690.6 | 644.9 | 650.6 | 799.0 | 1346.9 | 2020.4 | 1832.0 |
| 82.5° | 450.9 | 456.6 | 553.6 | 519.4 | 485.1 | 439.5 | 513.6 | 696.3 | 787.6 | 599.3 |
| 85° | 319.6 | 313.9 | 359.6 | 331.0 | 308.2 | 222.6 | 308.2 | 393.8 | 473.7 | 296.8 |
| 87.5° | 74.2 | 74.2 | 148.4 | 119.9 | 114.1 | 91.3 | 119.9 | 154.1 | 205.5 | 131.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P575087

CATALOG NUMBER: EPH-VN-07-730-U-RW

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 5421.8 | 0° | 5421.8 | 5421.8 | 5421.8 | 5421.8 | 5421.8 | 5421.8 | 5421.8 | 5421.8 | 5421.8 | 5421.8 |
| 5541.7 | 2.5° | 5524.6 | 5473.2 | 5473.2 | 5461.8 | 5416.1 | 5404.7 | 5364.8 | 5376.2 | 5347.7 | 5319.1 |
| 5724.3 | 5° | 5718.6 | 5650.1 | 5650.1 | 5553.1 | 5461.8 | 5450.4 | 5404.7 | 5404.7 | 5359.1 | 5370.5 |
| 6015.4 | 7.5° | 5986.9 | 5924.1 | 5821.4 | 5735.7 | 5610.2 | 5558.8 | 5473.2 | 5461.8 | 5450.4 | 5427.6 |
| 6340.7 | 10° | 6306.5 | 6226.6 | 6123.8 | 5946.9 | 5844.2 | 5747.2 | 5661.5 | 5541.7 | 5513.2 | 5518.9 |
| 6785.9 | 12.5° | 6740.2 | 6614.7 | 6392.1 | 6238.0 | 6106.7 | 5981.2 | 5855.6 | 5678.7 | 5638.7 | 5655.8 |
| 7191.1 | 15° | 7048.4 | 6888.6 | 6666.0 | 6608.9 | 6432.0 | 6277.9 | 6072.5 | 5872.7 | 5804.2 | 5787.1 |
| 7396.5 | 17.5° | 7299.5 | 7168.3 | 7037.0 | 6951.4 | 6808.7 | 6620.4 | 6335.0 | 6106.7 | 5952.6 | 5935.5 |
| 7579.2 | 20° | 7505.0 | 7333.8 | 7305.2 | 7356.6 | 7179.7 | 7054.1 | 6706.0 | 6426.3 | 6220.9 | 6135.2 |
| 7756.1 | 22.5° | 7630.5 | 7522.1 | 7602.0 | 7647.7 | 7636.2 | 7425.1 | 7065.5 | 6740.2 | 6483.4 | 6403.5 |
| 7756.1 | 25° | 7767.5 | 7641.9 | 7927.3 | 8081.4 | 8121.4 | 7773.2 | 7493.6 | 7065.5 | 6814.4 | 6763.0 |
| 7904.5 | 27.5° | 7836.0 | 7881.7 | 8212.7 | 8538.0 | 8509.4 | 8241.2 | 7864.5 | 7482.1 | 7282.4 | 7191.1 |
| 8109.9 | 30° | 8035.7 | 8109.9 | 8612.2 | 8977.4 | 8983.1 | 8720.6 | 8435.3 | 8001.5 | 7778.9 | 7739.0 |
| 8406.7 | 32.5° | 8395.3 | 8486.6 | 9023.1 | 9411.2 | 9479.7 | 9279.9 | 8994.6 | 8726.3 | 8498.0 | 8406.7 |
| 8640.7 | 35° | 8669.2 | 8903.2 | 9508.2 | 9862.1 | 10044.7 | 9924.8 | 9765.0 | 9485.4 | 9245.7 | 9165.8 |
| 9188.6 | 37.5° | 9063.0 | 9388.4 | 9970.5 | 10449.9 | 10655.4 | 10643.9 | 10524.1 | 10221.6 | 10021.9 | 9953.4 |
| 9685.1 | 40° | 9628.1 | 9953.4 | 10484.1 | 11117.6 | 11500.0 | 11482.9 | 11414.4 | 11180.4 | 10883.6 | 10849.4 |
| 10215.9 | 42.5° | 10227.3 | 10495.6 | 11186.1 | 11910.9 | 12458.8 | 12401.8 | 12219.1 | 11945.2 | 11739.7 | 11694.1 |
| 10809.4 | 45° | 10809.4 | 11226.1 | 11865.3 | 12795.6 | 13206.5 | 13349.2 | 13132.3 | 12664.3 | 12430.3 | 12401.8 |
| 11500.0 | 47.5° | 11540.0 | 11871.0 | 12670.0 | 13503.2 | 14113.9 | 14136.7 | 13765.8 | 13332.0 | 12904.0 | 12995.3 |
| 12179.2 | 50° | 12190.6 | 12630.0 | 13440.5 | 14353.6 | 15084.1 | 14821.6 | 14347.9 | 13805.7 | 13497.5 | 13377.7 |
| 13001.0 | 52.5° | 12886.9 | 13423.3 | 14365.0 | 15295.3 | 15700.5 | 15438.0 | 14667.5 | 14062.6 | 13594.6 | 13543.2 |
| 14051.1 | 55° | 13902.8 | 14182.4 | 15415.2 | 16128.6 | 16259.8 | 15706.2 | 14570.5 | 13714.4 | 13109.5 | 12961.1 |
| 15010.0 | 57.5° | 14935.8 | 15261.1 | 16339.7 | 16956.1 | 16819.1 | 15557.8 | 13942.7 | 12618.6 | 11825.3 | 11614.2 |
| 16043.0 | 60° | 15980.2 | 16379.7 | 17287.1 | 17852.1 | 17144.4 | 14536.3 | 12167.8 | 10461.3 | 9536.7 | 9348.4 |
| 17332.8 | 62.5° | 17144.4 | 17663.8 | 18474.2 | 18674.0 | 16179.9 | 12515.9 | 9656.6 | 7550.6 | 6614.7 | 6300.8 |
| 18217.4 | 65° | 18177.5 | 18708.2 | 19707.0 | 18502.8 | 14131.0 | 9337.0 | 6243.7 | 4314.6 | 3624.1 | 3373.0 |
| 18993.6 | 67.5° | 19027.8 | 19627.1 | 20117.9 | 16374.0 | 10347.2 | 5467.5 | 3253.1 | 2271.5 | 2014.6 | 1923.3 |
| 19929.6 | 70° | 19701.3 | 20700.0 | 18405.7 | 12036.5 | 5912.7 | 2665.3 | 1757.8 | 1495.3 | 1461.0 | 1438.2 |
| 19107.7 | 72.5° | 19113.4 | 18982.2 | 13743.0 | 6945.7 | 2591.1 | 1466.8 | 1272.7 | 1232.8 | 1227.0 | 1232.8 |
| 16214.2 | 75° | 15632.0 | 13942.7 | 8218.4 | 3019.1 | 1301.2 | 1061.5 | 1055.8 | 1038.7 | 1067.2 | 1067.2 |
| 8378.2 | 77.5° | 7584.9 | 6631.8 | 3435.7 | 1295.5 | 856.1 | 833.3 | 861.8 | 861.8 | 861.8 | 861.8 |
| 1889.1 | 80° | 1757.8 | 1946.2 | 1227.0 | 787.6 | 622.1 | 622.1 | 684.9 | 690.6 | 662.0 | 650.6 |
| 525.1 | 82.5° | 599.3 | 799.0 | 673.5 | 496.5 | 410.9 | 462.3 | 519.4 | 530.8 | 439.5 | 445.2 |
| 268.2 | 85° | 296.8 | 468.0 | 365.3 | 285.4 | 211.2 | 285.4 | 336.7 | 353.8 | 302.5 | 291.1 |
| 119.9 | 87.5° | 137.0 | 205.5 | 137.0 | 97.0 | 74.2 | 102.7 | 97.0 | 79.9 | 45.7 | 45.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF RI

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

