

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: P575102

Luminaire Tested: **EPH-VN-04-750-U-RW**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575102
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-750-U-RW
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

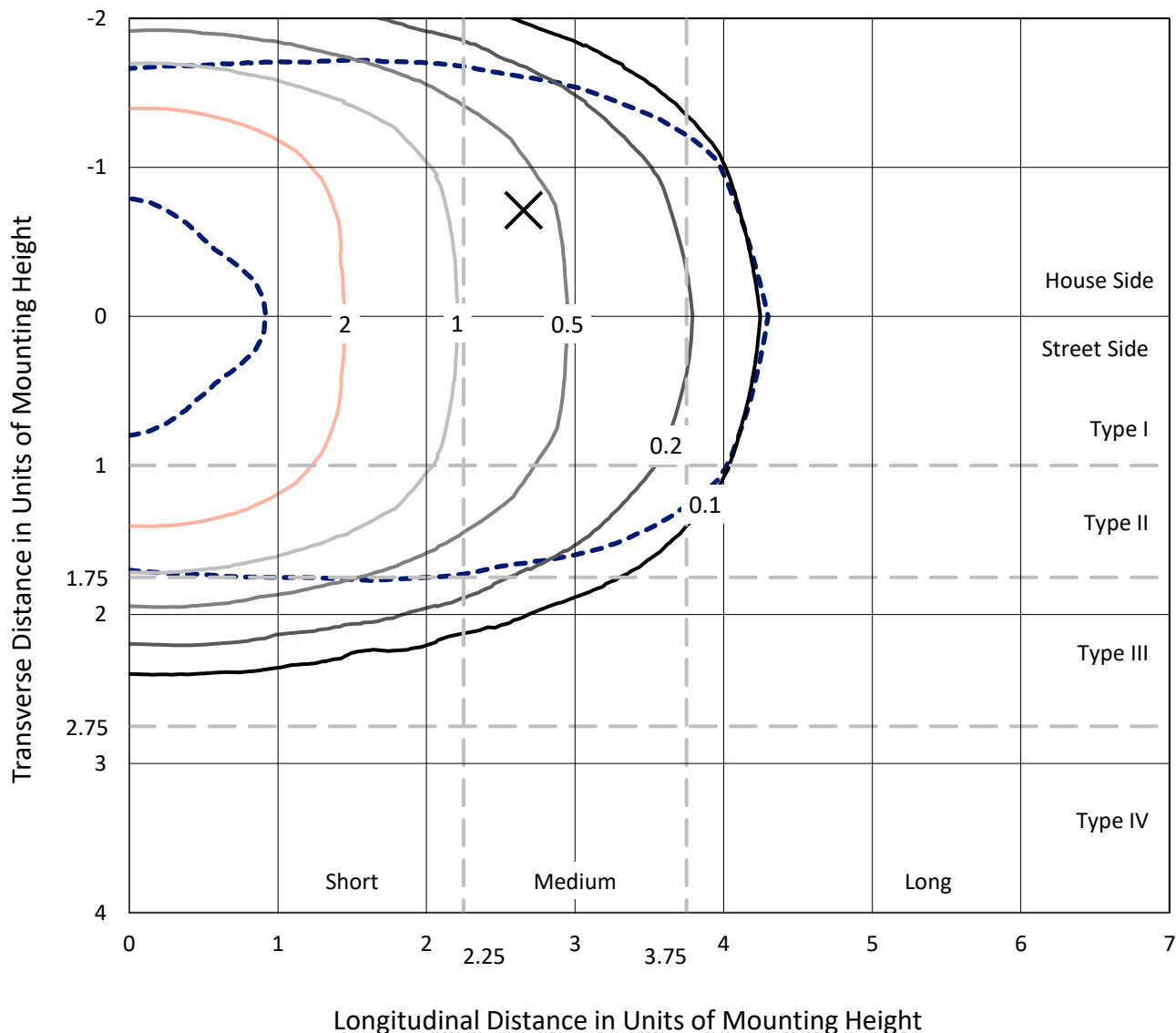
Lumens per Lamp: N/A
Luminaire Lumens: 36849.8 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 303.8
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

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Iso-Footcandle Lines of Horizontal Illumination

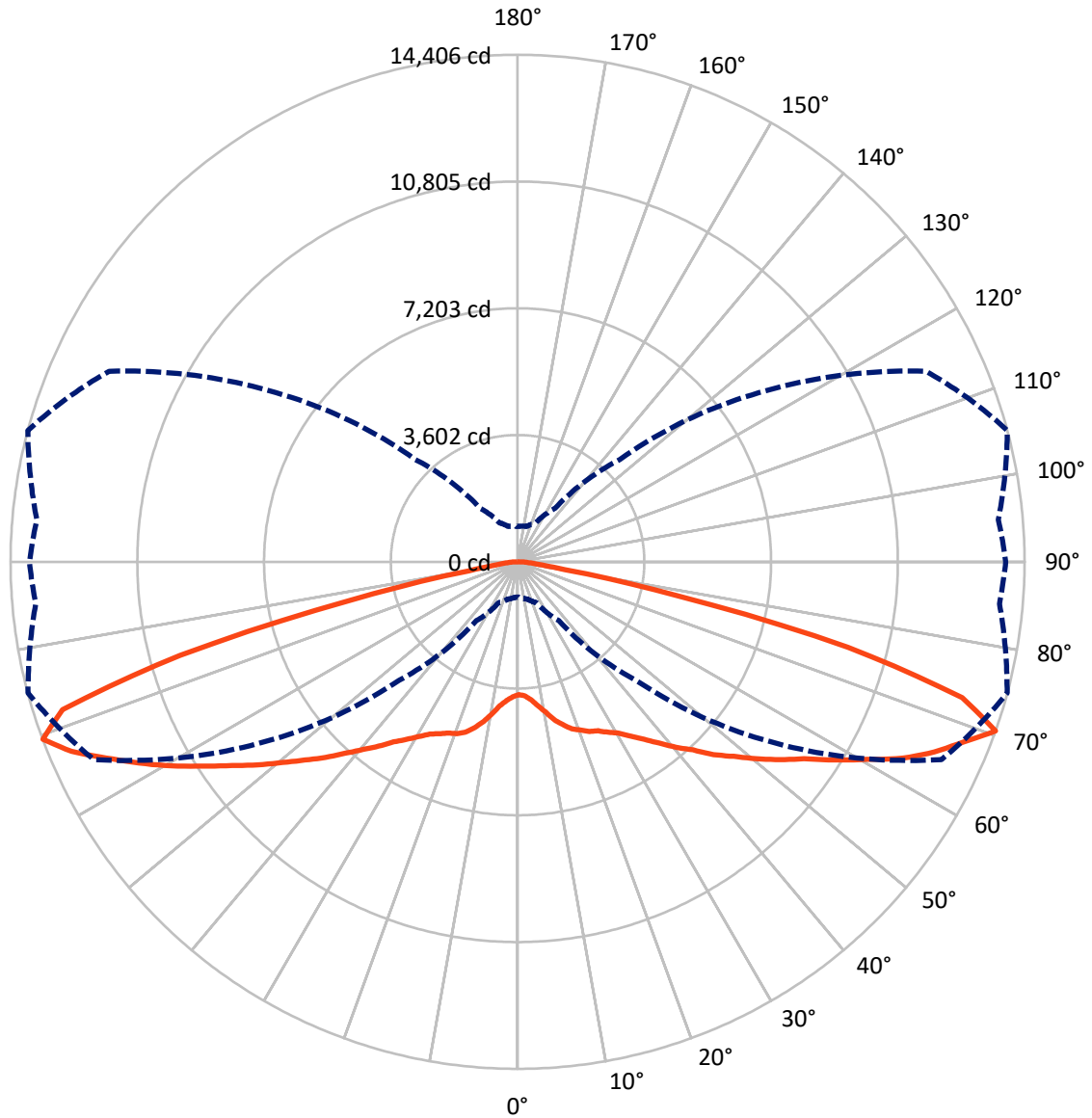
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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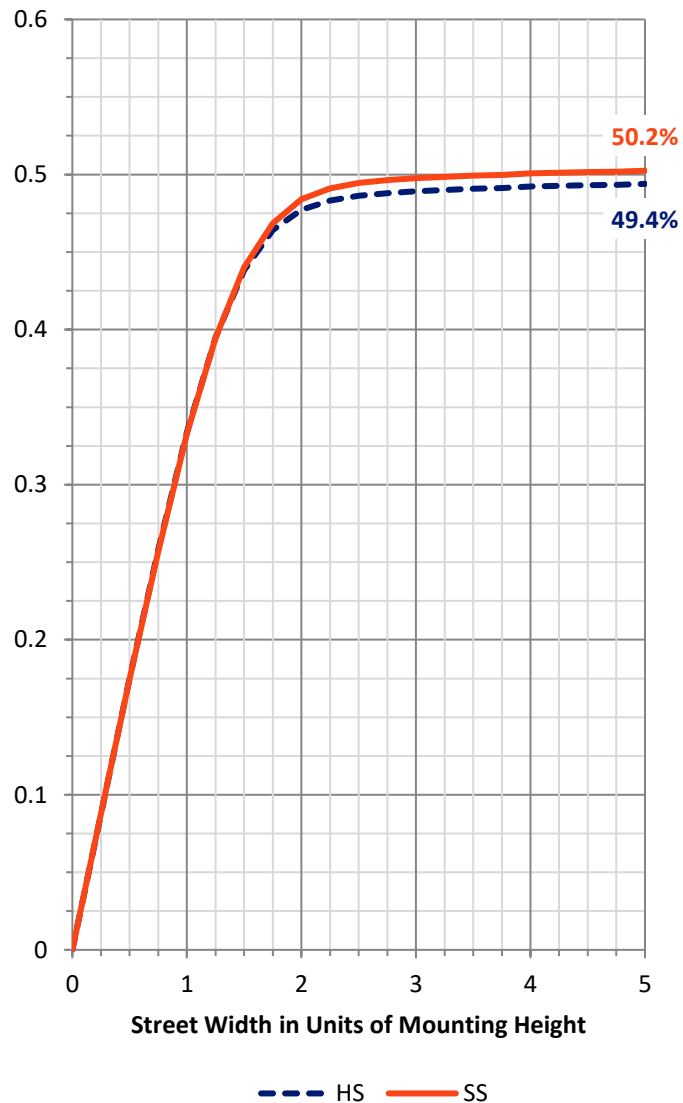
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18293.8 | 0.0 | 18293.8 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 18556.0 | 0.0 | 18556.0 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 36849.8 | 0.0 | 36849.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 375.6 | 1.0 |
| 10°-20° | 1278.8 | 3.5 |
| 20°-30° | 2476.2 | 6.7 |
| 30°-40° | 4188.3 | 11.4 |
| 40°-50° | 6681.6 | 18.1 |
| 50°-60° | 9145.7 | 24.8 |
| 60°-70° | 8620.4 | 23.4 |
| 70°-80° | 3797.5 | 10.3 |
| 80°-90° | 285.7 | 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° | 36849.8 | 100.0 |
| 0°-180° | 36849.8 | 100.0 |

Coefficient of Utilization

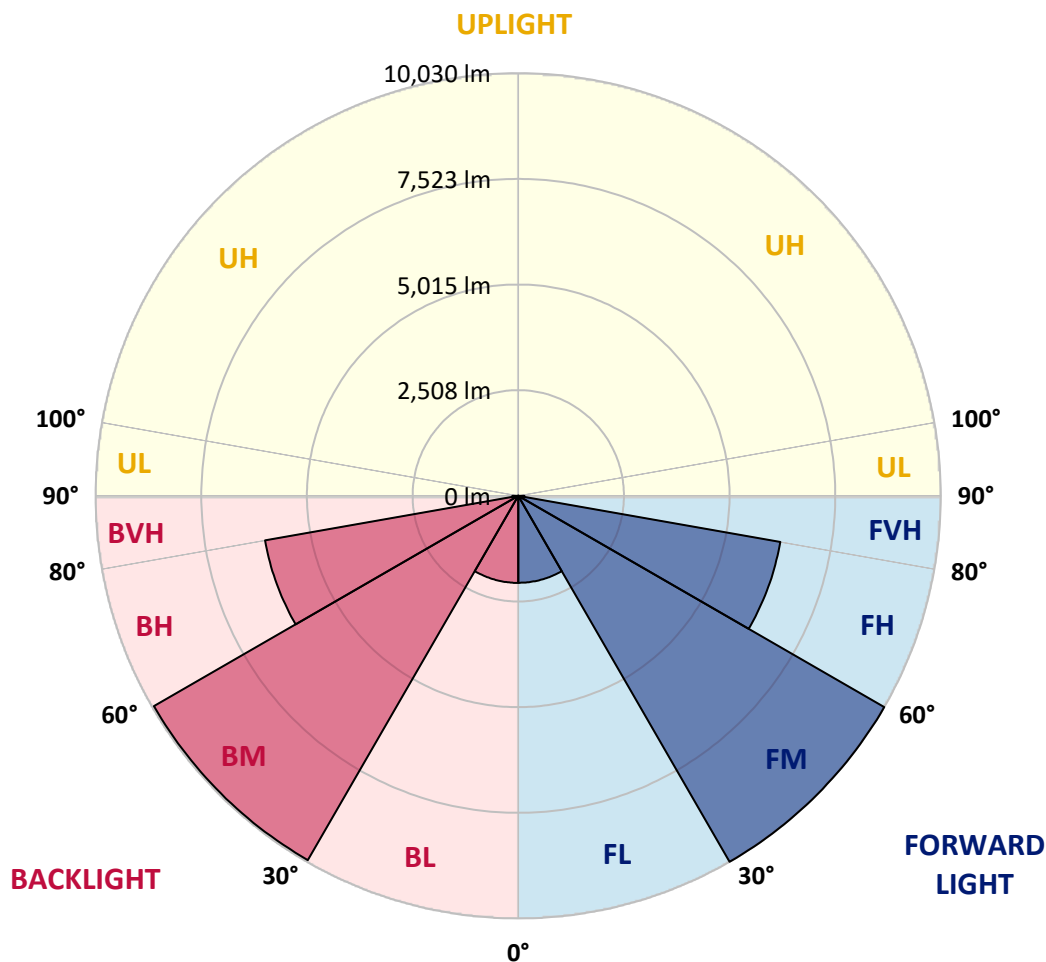


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2064.2 | 5.6 | | | |
| FM (30°-60°) | 10030.2 | 27.2 | | | |
| FH (60°-80°) | 6315.7 | 17.1 | | | G3/7500 |
| FVH (80°-90°) | 146.0 | 0.4 | | | G2/225 |
| BL (0°-30°) | 2066.4 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 9985.4 | 27.1 | B5 | | |
| BH (60°-80°) | 6102.3 | 16.6 | B5 | | G5 |
| BVH (80°-90°) | 139.8 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3773.4 | 3773.4 | 3773.4 | 3773.4 | 3773.4 | 3773.4 | 3773.4 | 3773.4 | 3773.4 | 3773.4 |
| 2.5° | 3749.6 | 3749.6 | 3745.6 | 3765.4 | 3785.3 | 3793.2 | 3809.1 | 3813.1 | 3836.9 | 3817.1 |
| 5° | 3737.6 | 3733.7 | 3765.4 | 3813.1 | 3813.1 | 3864.7 | 3896.5 | 3940.2 | 3952.1 | 3976.0 |
| 7.5° | 3821.1 | 3813.1 | 3797.2 | 3848.9 | 3892.5 | 3972.0 | 4015.7 | 4091.1 | 4118.9 | 4150.7 |
| 10° | 3872.7 | 3872.7 | 3856.8 | 3948.2 | 3987.9 | 4095.1 | 4190.4 | 4265.9 | 4373.2 | 4408.9 |
| 12.5° | 3880.6 | 3892.5 | 3940.2 | 4059.4 | 4170.6 | 4309.6 | 4381.1 | 4524.1 | 4631.3 | 4698.9 |
| 15° | 3999.8 | 3976.0 | 4027.6 | 4190.4 | 4353.3 | 4476.4 | 4603.5 | 4706.8 | 4861.7 | 4949.1 |
| 17.5° | 4107.0 | 4083.2 | 4178.5 | 4373.2 | 4540.0 | 4730.6 | 4841.9 | 4953.1 | 5064.3 | 5143.7 |
| 20° | 4277.8 | 4297.7 | 4381.1 | 4591.6 | 4810.1 | 4976.9 | 5104.0 | 5123.9 | 5179.5 | 5294.7 |
| 22.5° | 4488.3 | 4472.5 | 4647.2 | 4877.6 | 5115.9 | 5254.9 | 5326.4 | 5274.8 | 5247.0 | 5370.1 |
| 25° | 4698.9 | 4746.5 | 4905.4 | 5119.9 | 5405.9 | 5592.6 | 5612.4 | 5469.4 | 5366.2 | 5409.8 |
| 27.5° | 5020.6 | 5028.5 | 5195.4 | 5449.6 | 5739.5 | 5902.4 | 5890.5 | 5687.9 | 5489.3 | 5493.3 |
| 30° | 5433.7 | 5394.0 | 5576.7 | 5807.0 | 6093.0 | 6240.0 | 6259.8 | 5969.9 | 5703.8 | 5624.3 |
| 32.5° | 5830.9 | 5878.5 | 6037.4 | 6299.6 | 6510.1 | 6593.5 | 6549.8 | 6291.6 | 5946.1 | 5838.8 |
| 35° | 6339.3 | 6331.3 | 6549.8 | 6772.2 | 6931.1 | 6947.0 | 6911.3 | 6533.9 | 6208.2 | 6069.2 |
| 37.5° | 6883.5 | 6954.9 | 7097.9 | 7280.7 | 7447.5 | 7455.4 | 7260.8 | 6958.9 | 6557.7 | 6327.4 |
| 40° | 7491.2 | 7570.6 | 7673.9 | 7940.0 | 8063.1 | 7936.0 | 7737.4 | 7328.3 | 6911.3 | 6708.7 |
| 42.5° | 8027.4 | 8063.1 | 8273.6 | 8587.4 | 8647.0 | 8591.4 | 8297.5 | 7801.0 | 7316.4 | 7094.0 |
| 45° | 8519.9 | 8567.6 | 8841.6 | 9123.7 | 9262.7 | 9167.3 | 8825.8 | 8353.1 | 7789.1 | 7598.4 |
| 47.5° | 8972.7 | 9068.0 | 9334.2 | 9624.1 | 9838.6 | 9846.6 | 9425.5 | 8853.6 | 8257.8 | 8007.5 |
| 50° | 9278.6 | 9417.6 | 9679.7 | 10009.4 | 10323.2 | 10446.3 | 10025.3 | 9409.6 | 8770.1 | 8504.0 |
| 52.5° | 9445.4 | 9588.4 | 9850.5 | 10362.9 | 10712.4 | 10903.1 | 10704.5 | 9930.0 | 9369.9 | 9091.9 |
| 55° | 9242.8 | 9338.1 | 9767.1 | 10486.0 | 11026.2 | 11340.0 | 11208.9 | 10648.9 | 9965.7 | 9739.3 |
| 57.5° | 8380.9 | 8579.5 | 9107.8 | 10005.4 | 11018.3 | 11788.9 | 11776.9 | 11328.1 | 10652.9 | 10438.4 |
| 60° | 6899.3 | 7066.2 | 7717.6 | 8972.7 | 10573.4 | 11971.6 | 12392.6 | 11987.5 | 11423.4 | 11173.2 |
| 62.5° | 4869.7 | 5080.2 | 5834.8 | 7205.2 | 9262.7 | 11717.4 | 13099.6 | 12817.6 | 12178.1 | 11995.4 |
| 65° | 2724.8 | 2851.9 | 3551.0 | 4790.2 | 7058.2 | 10319.2 | 13226.7 | 13679.5 | 12944.7 | 12666.7 |
| 67.5° | 1457.7 | 1505.4 | 1831.1 | 2514.3 | 4317.5 | 7955.9 | 11943.8 | 14176.0 | 13774.8 | 13294.2 |
| 70° | 1000.9 | 1016.8 | 1100.2 | 1286.9 | 2041.6 | 4758.4 | 9008.5 | 13290.3 | 14398.4 | 13743.1 |
| 72.5° | 846.0 | 838.1 | 857.9 | 877.8 | 1068.5 | 2129.0 | 5286.7 | 10227.9 | 13592.1 | 13345.9 |
| 75° | 734.8 | 730.8 | 738.8 | 718.9 | 742.8 | 937.4 | 2339.5 | 6375.0 | 9949.8 | 11105.7 |
| 77.5° | 607.7 | 611.7 | 615.7 | 595.8 | 587.9 | 619.6 | 941.4 | 2800.3 | 4897.5 | 5405.9 |
| 80° | 460.8 | 468.7 | 500.5 | 480.6 | 448.8 | 452.8 | 556.1 | 937.4 | 1406.1 | 1275.0 |
| 82.5° | 313.8 | 317.8 | 385.3 | 361.5 | 337.6 | 305.8 | 357.5 | 484.6 | 548.1 | 417.1 |
| 85° | 222.4 | 218.5 | 250.2 | 230.4 | 214.5 | 154.9 | 214.5 | 274.1 | 329.7 | 206.5 |
| 87.5° | 51.6 | 51.6 | 103.3 | 83.4 | 79.4 | 63.6 | 83.4 | 107.2 | 143.0 | 91.4 |
| 90° | 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: EPH-VN-04-750-U-RW

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 3773.4 | 0° | 3773.4 | 3773.4 | 3773.4 | 3773.4 | 3773.4 | 3773.4 | 3773.4 | 3773.4 | 3773.4 | 3773.4 |
| 3856.8 | 2.5° | 3844.9 | 3809.1 | 3809.1 | 3801.2 | 3769.4 | 3761.5 | 3733.7 | 3741.6 | 3721.8 | 3701.9 |
| 3983.9 | 5° | 3979.9 | 3932.3 | 3932.3 | 3864.7 | 3801.2 | 3793.2 | 3761.5 | 3761.5 | 3729.7 | 3737.6 |
| 4186.5 | 7.5° | 4166.6 | 4122.9 | 4051.4 | 3991.8 | 3904.5 | 3868.7 | 3809.1 | 3801.2 | 3793.2 | 3777.4 |
| 4412.9 | 10° | 4389.0 | 4333.4 | 4261.9 | 4138.8 | 4067.3 | 3999.8 | 3940.2 | 3856.8 | 3836.9 | 3840.9 |
| 4722.7 | 12.5° | 4690.9 | 4603.5 | 4448.6 | 4341.4 | 4250.0 | 4162.6 | 4075.3 | 3952.1 | 3924.3 | 3936.2 |
| 5004.7 | 15° | 4905.4 | 4794.2 | 4639.3 | 4599.6 | 4476.4 | 4369.2 | 4226.2 | 4087.2 | 4039.5 | 4027.6 |
| 5147.7 | 17.5° | 5080.2 | 4988.8 | 4897.5 | 4837.9 | 4738.6 | 4607.5 | 4408.9 | 4250.0 | 4142.8 | 4130.9 |
| 5274.8 | 20° | 5223.2 | 5104.0 | 5084.1 | 5119.9 | 4996.8 | 4909.4 | 4667.1 | 4472.5 | 4329.5 | 4269.9 |
| 5397.9 | 22.5° | 5310.5 | 5235.1 | 5290.7 | 5322.5 | 5314.5 | 5167.6 | 4917.3 | 4690.9 | 4512.2 | 4456.6 |
| 5397.9 | 25° | 5405.9 | 5318.5 | 5517.1 | 5624.3 | 5652.1 | 5409.8 | 5215.2 | 4917.3 | 4742.6 | 4706.8 |
| 5501.2 | 27.5° | 5453.5 | 5485.3 | 5715.7 | 5942.1 | 5922.2 | 5735.5 | 5473.4 | 5207.3 | 5068.3 | 5004.7 |
| 5644.2 | 30° | 5592.6 | 5644.2 | 5993.7 | 6247.9 | 6251.9 | 6069.2 | 5870.6 | 5568.7 | 5413.8 | 5386.0 |
| 5850.7 | 32.5° | 5842.8 | 5906.3 | 6279.7 | 6549.8 | 6597.5 | 6458.4 | 6259.8 | 6073.2 | 5914.3 | 5850.7 |
| 6013.6 | 35° | 6033.4 | 6196.3 | 6617.3 | 6863.6 | 6990.7 | 6907.3 | 6796.1 | 6601.4 | 6434.6 | 6379.0 |
| 6394.9 | 37.5° | 6307.5 | 6533.9 | 6939.1 | 7272.7 | 7415.7 | 7407.8 | 7324.3 | 7113.8 | 6974.8 | 6927.1 |
| 6740.5 | 40° | 6700.7 | 6927.1 | 7296.5 | 7737.4 | 8003.6 | 7991.6 | 7944.0 | 7781.1 | 7574.6 | 7550.7 |
| 7109.9 | 42.5° | 7117.8 | 7304.5 | 7785.1 | 8289.5 | 8670.8 | 8631.1 | 8504.0 | 8313.4 | 8170.4 | 8138.6 |
| 7522.9 | 45° | 7522.9 | 7812.9 | 8257.8 | 8905.2 | 9191.2 | 9290.5 | 9139.5 | 8813.8 | 8651.0 | 8631.1 |
| 8003.6 | 47.5° | 8031.4 | 8261.7 | 8817.8 | 9397.7 | 9822.7 | 9838.6 | 9580.4 | 9278.6 | 8980.7 | 9044.2 |
| 8476.2 | 50° | 8484.2 | 8790.0 | 9354.0 | 9989.5 | 10498.0 | 10315.2 | 9985.6 | 9608.2 | 9393.7 | 9310.3 |
| 9048.2 | 52.5° | 8968.7 | 9342.1 | 9997.5 | 10644.9 | 10926.9 | 10744.2 | 10208.0 | 9787.0 | 9461.3 | 9425.5 |
| 9779.0 | 55° | 9675.8 | 9870.4 | 10728.3 | 11224.8 | 11316.2 | 10930.9 | 10140.5 | 9544.7 | 9123.7 | 9020.4 |
| 10446.3 | 57.5° | 10394.7 | 10621.1 | 11371.8 | 11800.8 | 11705.4 | 10827.6 | 9703.6 | 8782.1 | 8230.0 | 8083.0 |
| 11165.3 | 60° | 11121.6 | 11399.6 | 12031.1 | 12424.4 | 11931.8 | 10116.6 | 8468.3 | 7280.7 | 6637.2 | 6506.1 |
| 12062.9 | 62.5° | 11931.8 | 12293.3 | 12857.3 | 12996.3 | 11260.6 | 8710.6 | 6720.6 | 5254.9 | 4603.5 | 4385.1 |
| 12678.6 | 65° | 12650.8 | 13020.2 | 13715.3 | 12877.2 | 9834.6 | 6498.2 | 4345.4 | 3002.8 | 2522.2 | 2347.4 |
| 13218.8 | 67.5° | 13242.6 | 13659.7 | 14001.3 | 11395.6 | 7201.2 | 3805.2 | 2264.0 | 1580.9 | 1402.1 | 1338.6 |
| 13870.2 | 70° | 13711.3 | 14406.4 | 12809.7 | 8376.9 | 4115.0 | 1854.9 | 1223.4 | 1040.7 | 1016.8 | 1000.9 |
| 13298.2 | 72.5° | 13302.2 | 13210.8 | 9564.5 | 4833.9 | 1803.3 | 1020.8 | 885.8 | 857.9 | 854.0 | 857.9 |
| 11284.4 | 75° | 10879.3 | 9703.6 | 5719.7 | 2101.2 | 905.6 | 738.8 | 734.8 | 722.9 | 742.8 | 742.8 |
| 5830.9 | 77.5° | 5278.8 | 4615.4 | 2391.1 | 901.6 | 595.8 | 579.9 | 599.8 | 599.8 | 599.8 | 599.8 |
| 1314.7 | 80° | 1223.4 | 1354.4 | 854.0 | 548.1 | 432.9 | 432.9 | 476.6 | 480.6 | 460.8 | 452.8 |
| 365.4 | 82.5° | 417.1 | 556.1 | 468.7 | 345.6 | 286.0 | 321.7 | 361.5 | 369.4 | 305.8 | 309.8 |
| 186.7 | 85° | 206.5 | 325.7 | 254.2 | 198.6 | 147.0 | 198.6 | 234.3 | 246.3 | 210.5 | 202.6 |
| 83.4 | 87.5° | 95.3 | 143.0 | 95.3 | 67.5 | 51.6 | 71.5 | 67.5 | 55.6 | 31.8 | 31.8 |
| 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

