Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1045830

Luminaire Tested: **FFX-CLB-20-722-U-VM8-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1045830 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-20-722-U-VM8-T5-HSS |
| Description: | FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK AND HOUSE SIDE SHIELD |
| Light Source: | (6) 2200K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 1861.6 lumens |
| Efficiency: | N/A |
| Efficacy: | 94.0 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B0 - U4 - G2 |

| | |
|---|---|
| Input Watts (W): | 19.8 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 9.1% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

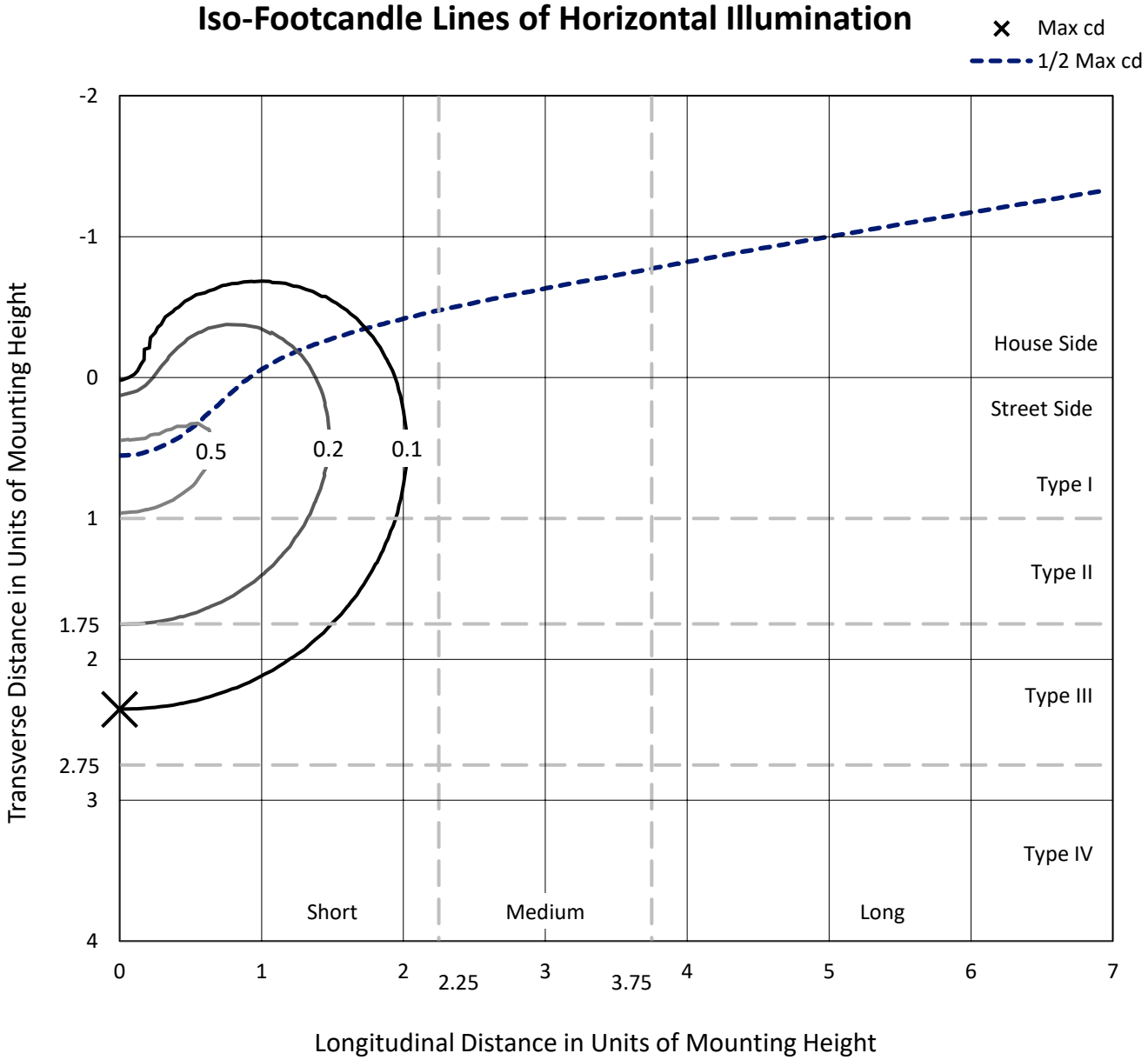


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REPORT NUMBER: P1045830
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## Iso-Footcandle Lines of Horizontal Illumination



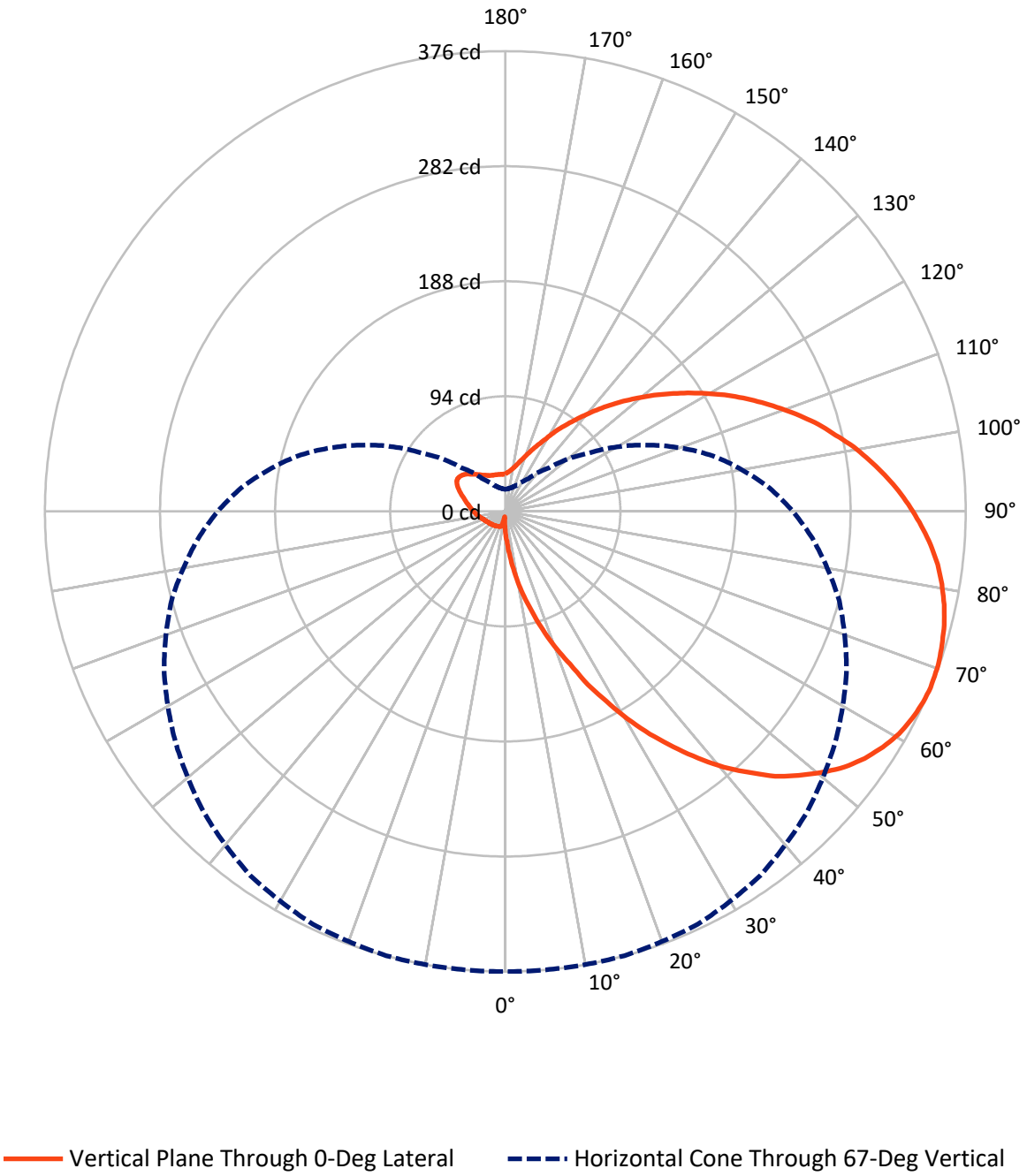

Based on 15 foot mounting height. Maximum calculated value = 0.6 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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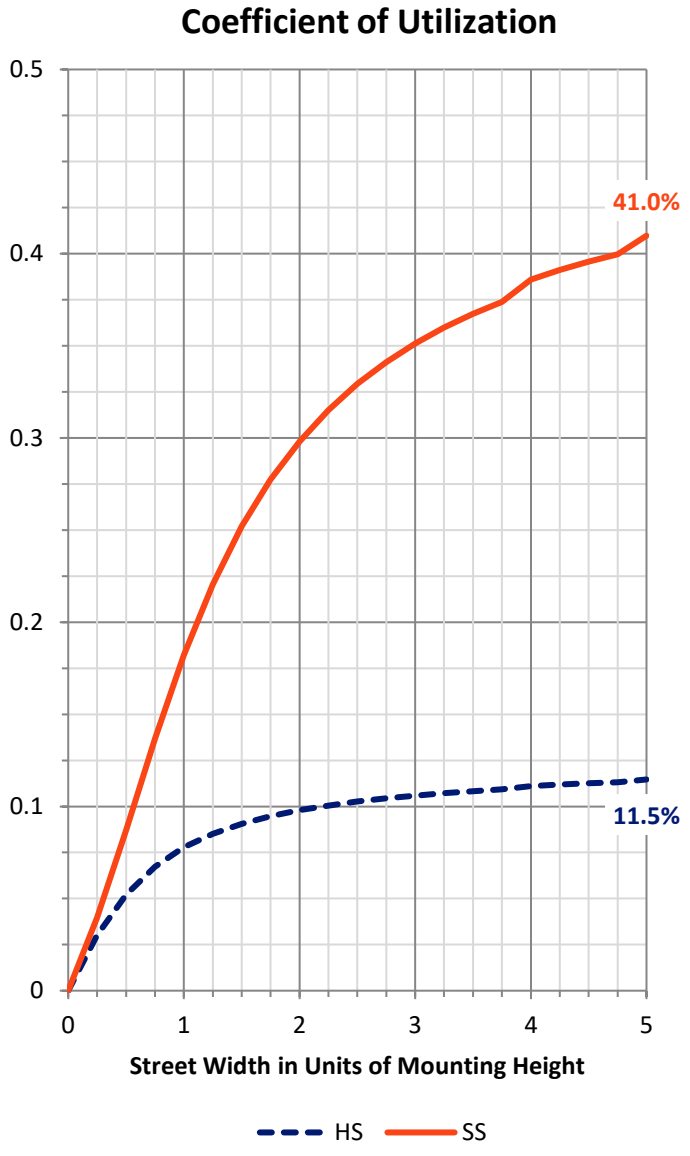
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 230.5 | 219.6 | 450.2 |
| | % Fixture | 12.4 | 11.8 | 24.2 |
| **Street Side** | Lumens | 869.2 | 542.2 | 1411.4 |
| | % Fixture | 46.7 | 29.1 | 75.8 |
| **Total** | Lumens | 1099.8 | 761.8 | 1861.6 |
| | % Fixture | 59.1 | 40.9 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 2.5 | 0.1 |
| 10°-20° | 15.5 | 0.8 |
| 20°-30° | 43.2 | 2.3 |
| 30°-40° | 86.4 | 4.6 |
| 40°-50° | 135.8 | 7.3 |
| 50°-60° | 178.6 | 9.6 |
| 60°-70° | 206.2 | 11.1 |
| 70°-80° | 217.6 | 11.7 |
| 80°-90° | 214.0 | 11.5 |
| 90°-100° | 196.4 | 10.6 |
| 100°-110° | 169.9 | 9.1 |
| 110°-120° | 139.4 | 7.5 |
| 120°-130° | 106.3 | 5.7 |
| 130°-140° | 71.6 | 3.8 |
| 140°-150° | 42.4 | 2.3 |
| 150°-160° | 22.3 | 1.2 |
| 160°-170° | 10.4 | 0.6 |
| 170°-180° | 3.0 | 0.2 |
| 0°-90° | 1099.8 | 59.1 |
| 0°-180° | 1861.6 | 100.0 |



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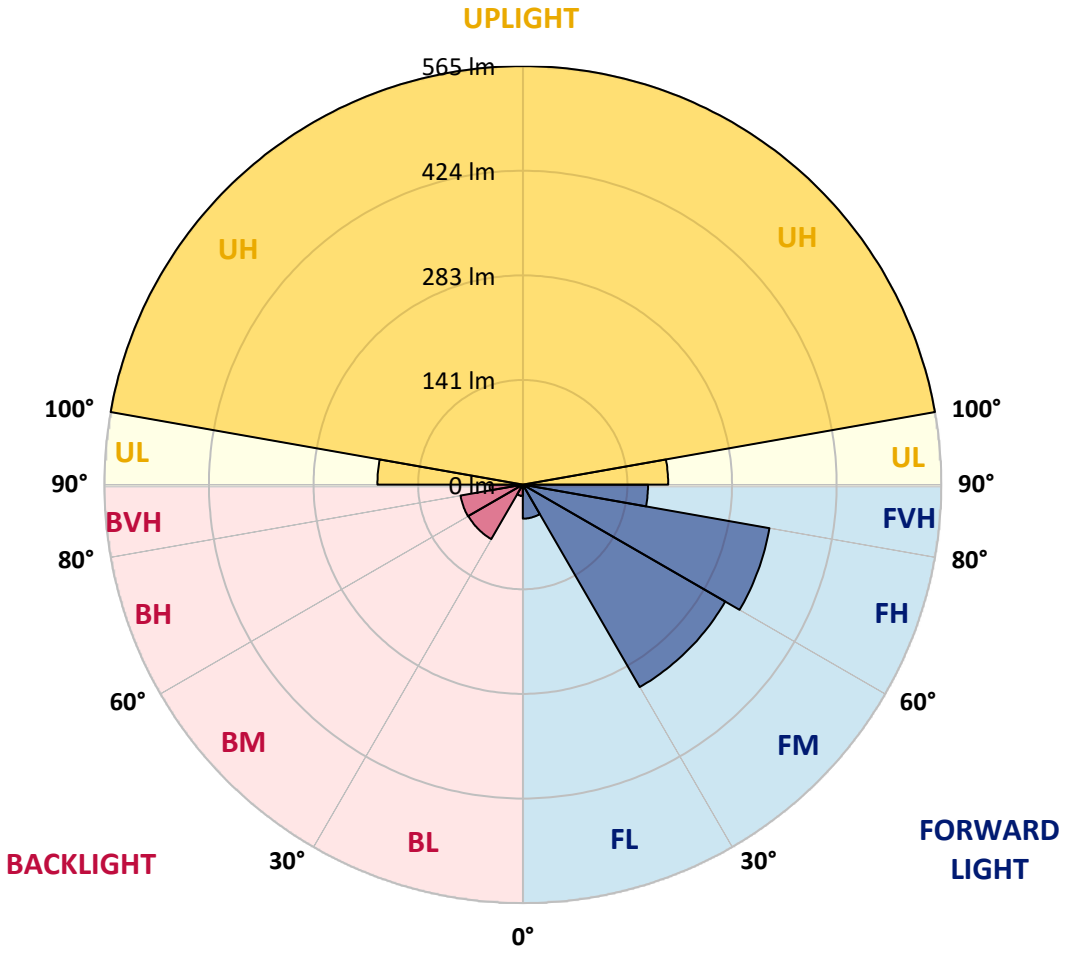
Scaled Data Report

REPORT NUMBER: P1045830
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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°) | 45.9 | 2.5 | | | |
| FM | (30°-60°) | 315.8 | 17.0 | | | |
| FH | (60°-80°) | 338.3 | 18.2 | | | G0/660 |
| FVH | (80°-90°) | 169.1 | 9.1 | | | G2/225 |
| BL | (0°-30°) | 15.2 | 0.8 | B0/110 | | |
| BM | (30°-60°) | 85.0 | 4.6 | B0/220 | | |
| BH | (60°-80°) | 85.5 | 4.6 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 44.9 | 2.4 | | | G1/100 |
| UL | (90°-100°) | 196.4 | 10.6 | | U3/500 | |
| UH | (100°-180°) | 565.4 | 30.4 | | U4/1000 | |

**BUG Rating: B0-U4-G2**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 10° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 |
| 2.5° | 24.0 | 24.4 | 24.4 | 24.2 | 24.0 | 23.6 | 23.2 | 22.4 | 20.8 | 19.6 | 18.3 |
| 5° | 34.8 | 34.8 | 35.0 | 34.8 | 34.0 | 33.2 | 31.4 | 29.9 | 27.3 | 25.3 | 23.0 |
| 7.5° | 47.3 | 47.9 | 47.7 | 47.0 | 45.6 | 43.8 | 41.5 | 38.9 | 36.3 | 33.2 | 29.7 |
| 10° | 61.1 | 60.9 | 60.9 | 60.1 | 58.5 | 56.0 | 53.6 | 50.5 | 46.6 | 42.8 | 38.3 |
| 12.5° | 74.1 | 74.7 | 74.3 | 73.3 | 71.3 | 69.5 | 66.4 | 62.9 | 58.5 | 54.4 | 48.3 |
| 15° | 88.2 | 88.6 | 88.6 | 88.0 | 86.2 | 83.5 | 80.0 | 76.8 | 70.9 | 65.2 | 59.3 |
| 17.5° | 104.3 | 103.7 | 102.9 | 102.9 | 100.6 | 98.4 | 94.9 | 90.4 | 83.9 | 77.6 | 69.7 |
| 20° | 120.4 | 120.2 | 119.1 | 118.5 | 117.1 | 113.9 | 109.4 | 104.3 | 97.8 | 90.6 | 81.3 |
| 22.5° | 135.4 | 137.5 | 137.3 | 136.3 | 134.4 | 131.2 | 126.3 | 120.2 | 113.4 | 104.5 | 93.7 |
| 25° | 156.8 | 155.6 | 155.8 | 154.8 | 153.2 | 149.3 | 144.4 | 137.3 | 129.1 | 119.1 | 106.9 |
| 27.5° | 175.4 | 175.0 | 175.0 | 174.3 | 172.1 | 168.0 | 162.3 | 155.6 | 146.2 | 134.4 | 120.8 |
| 30° | 196.7 | 195.7 | 195.3 | 194.7 | 192.5 | 188.0 | 182.1 | 173.7 | 163.6 | 151.5 | 135.4 |
| 32.5° | 216.9 | 216.1 | 214.7 | 214.5 | 212.8 | 208.2 | 201.4 | 192.9 | 181.3 | 167.2 | 149.5 |
| 35° | 236.3 | 236.7 | 236.1 | 235.0 | 232.8 | 228.3 | 221.8 | 211.4 | 200.0 | 183.7 | 164.6 |
| 37.5° | 255.8 | 255.6 | 256.0 | 255.2 | 251.7 | 247.5 | 239.7 | 228.7 | 215.7 | 198.0 | 177.8 |
| 40° | 275.0 | 273.9 | 273.7 | 272.9 | 270.5 | 266.2 | 257.4 | 246.2 | 231.6 | 213.2 | 190.4 |
| 42.5° | 291.5 | 291.9 | 291.5 | 290.6 | 287.4 | 282.5 | 273.3 | 260.9 | 245.4 | 225.7 | 202.2 |
| 45° | 308.8 | 308.2 | 308.0 | 308.0 | 303.7 | 298.6 | 288.6 | 275.8 | 258.5 | 237.3 | 212.4 |
| 47.5° | 322.4 | 323.2 | 322.8 | 321.8 | 319.0 | 312.6 | 302.0 | 288.0 | 269.9 | 248.1 | 221.6 |
| 50° | 335.2 | 336.3 | 336.5 | 335.5 | 332.0 | 325.1 | 314.1 | 298.4 | 280.1 | 257.0 | 229.5 |
| 52.5° | 347.1 | 346.9 | 347.5 | 346.9 | 343.6 | 336.5 | 323.8 | 308.0 | 288.2 | 264.6 | 235.7 |
| 55° | 356.2 | 356.2 | 356.6 | 355.8 | 352.8 | 344.8 | 331.8 | 314.9 | 294.7 | 270.5 | 240.9 |
| 57.5° | 363.6 | 364.0 | 363.8 | 363.6 | 360.1 | 351.7 | 337.9 | 320.4 | 300.0 | 274.8 | 244.8 |
| 60° | 369.3 | 369.5 | 369.5 | 369.1 | 365.6 | 356.8 | 342.8 | 324.7 | 303.5 | 278.4 | 247.9 |
| 62.5° | 372.9 | 373.1 | 373.1 | 372.7 | 369.3 | 360.3 | 346.0 | 327.3 | 305.9 | 280.7 | 249.9 |
| 65° | 375.2 | 375.4 | 375.4 | 375.0 | 371.5 | 362.3 | 347.7 | 328.7 | 307.1 | 281.9 | 251.1 |
| 67° | 376.0 | 376.0 | 376.0 | 375.8 | 372.1 | 363.2 | 348.1 | 328.9 | 307.5 | 282.3 | 251.7 |
| 67.5° | 375.8 | 375.8 | 376.0 | 375.6 | 372.1 | 362.9 | 347.9 | 328.9 | 307.3 | 282.3 | 251.7 |
| 70° | 375.2 | 375.2 | 375.2 | 374.8 | 371.3 | 362.1 | 347.1 | 327.9 | 306.7 | 281.9 | 251.5 |
| 72.5° | 372.9 | 373.1 | 373.1 | 372.7 | 369.3 | 360.3 | 345.2 | 326.1 | 305.1 | 280.7 | 250.9 |
| 75° | 370.3 | 370.3 | 370.3 | 369.9 | 366.4 | 357.4 | 342.6 | 323.6 | 303.1 | 279.0 | 249.7 |
| 77.5° | 366.4 | 366.4 | 366.4 | 366.0 | 362.5 | 353.8 | 339.1 | 320.6 | 300.4 | 276.8 | 248.3 |
| 80° | 361.5 | 361.7 | 361.5 | 361.1 | 357.7 | 348.9 | 334.8 | 316.7 | 297.0 | 274.1 | 246.2 |
| 82.5° | 355.8 | 356.0 | 355.8 | 355.0 | 351.7 | 343.4 | 329.3 | 311.6 | 292.9 | 270.7 | 243.8 |
| 85° | 348.5 | 348.3 | 348.5 | 347.3 | 344.4 | 336.1 | 323.2 | 305.9 | 287.8 | 266.6 | 240.3 |
| 87.5° | 340.1 | 340.3 | 339.9 | 339.3 | 335.9 | 327.7 | 315.5 | 299.4 | 281.9 | 261.7 | 236.3 |
| 90° | 331.0 | 331.0 | 330.8 | 330.0 | 326.3 | 319.0 | 307.3 | 291.9 | 275.6 | 256.2 | 232.0 |
| 92.5° | 321.6 | 321.4 | 320.8 | 320.4 | 317.1 | 309.6 | 298.4 | 284.5 | 269.3 | 250.7 | 227.5 |
| 95° | 311.2 | 311.2 | 310.8 | 310.0 | 306.3 | 300.2 | 289.4 | 276.4 | 261.9 | 244.8 | 222.8 |
| 97.5° | 300.2 | 300.0 | 299.8 | 298.6 | 295.3 | 289.2 | 280.5 | 267.8 | 254.6 | 238.5 | 217.5 |
| 100° | 289.4 | 288.8 | 288.4 | 287.2 | 284.3 | 278.4 | 270.1 | 259.1 | 246.2 | 231.6 | 211.8 |
| 102.5° | 276.8 | 276.8 | 276.6 | 275.4 | 271.7 | 266.8 | 259.3 | 249.5 | 238.5 | 224.4 | 205.7 |
| 105° | 265.6 | 264.6 | 264.2 | 262.9 | 260.1 | 254.8 | 248.5 | 239.9 | 229.7 | 216.7 | 199.6 |
| 107.5° | 253.0 | 252.1 | 251.9 | 250.1 | 247.9 | 243.0 | 237.7 | 229.7 | 221.2 | 209.6 | 193.3 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 10° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | *240.1* | 239.7 | 239.5 | 237.7 | 234.8 | 231.6 | 226.1 | 219.8 | 212.2 | 201.6 | 187.4 |
| 112.5° | *227.5* | 227.1 | 227.1 | 225.7 | 223.0 | 219.0 | 215.1 | 209.6 | 202.9 | 193.7 | 180.5 |
| 115° | *215.1* | 214.5 | 214.3 | 212.6 | 210.0 | 206.9 | 203.1 | 199.2 | 193.5 | 185.8 | 173.7 |
| 117.5° | *202.7* | 201.8 | 202.0 | 200.6 | 198.6 | 195.5 | 191.9 | 189.2 | 184.3 | 177.2 | 167.0 |
| 120° | *189.8* | 190.0 | 190.0 | 188.2 | 186.4 | 183.9 | 180.9 | 178.2 | 175.0 | 168.6 | 159.3 |
| 122.5° | *177.6* | 178.0 | 178.0 | 176.8 | 174.5 | 172.3 | 170.3 | 167.8 | 165.0 | 160.1 | 151.7 |
| 125° | *165.4* | 166.2 | 165.8 | 164.8 | 162.9 | 160.5 | 159.1 | 157.0 | 154.8 | 150.7 | 143.4 |
| 127.5° | *154.2* | 154.2 | 153.2 | 153.4 | 151.5 | 149.5 | 148.3 | 146.8 | 144.6 | 140.7 | 134.8 |
| 130° | *142.6* | 142.8 | 143.0 | 141.8 | 140.1 | 138.5 | 137.3 | 136.7 | 134.8 | 131.6 | 125.7 |
| 132.5° | *132.0* | 132.0 | 131.6 | 130.8 | 129.3 | 128.1 | 128.1 | 126.3 | 124.9 | 121.8 | 116.7 |
| 135° | *121.6* | 121.4 | 121.4 | 120.6 | 119.6 | 118.9 | 117.5 | 116.7 | 115.3 | 112.4 | 108.6 |
| 137.5° | *111.4* | 111.8 | 111.4 | 110.8 | 109.8 | 109.0 | 107.9 | 107.7 | 105.7 | 103.7 | 99.4 |
| 140° | *101.6* | 102.2 | 101.6 | 101.4 | 100.6 | 99.6 | 99.0 | 98.2 | 97.6 | 94.9 | 91.2 |
| 142.5° | *92.5* | 92.9 | 92.5 | 92.3 | 91.7 | 90.8 | 90.4 | 89.8 | 88.4 | 86.8 | 83.7 |
| 145° | *84.5* | 84.3 | 84.3 | 84.1 | 83.3 | 82.7 | 82.1 | 81.7 | 80.9 | 79.2 | 75.8 |
| 147.5° | *76.8* | 76.2 | 76.6 | 76.2 | 75.6 | 75.2 | 75.0 | 74.1 | 73.3 | 71.7 | 69.2 |
| 150° | *68.8* | 69.2 | 69.0 | 68.8 | 68.2 | 68.2 | 67.6 | 67.0 | 66.4 | 64.6 | 62.9 |
| 152.5° | *62.3* | 62.3 | 62.5 | 62.1 | 61.9 | 61.3 | 60.9 | 60.7 | 59.9 | 58.7 | 56.8 |
| 155° | *56.8* | 56.6 | 56.6 | 56.6 | 56.2 | 55.6 | 55.4 | 55.0 | 54.6 | 53.2 | 51.5 |
| 157.5° | *51.5* | 51.5 | 51.5 | 51.3 | 51.3 | 50.7 | 50.5 | 49.9 | 49.3 | 48.5 | 47.0 |
| 160° | *47.0* | 47.0 | 46.8 | 46.8 | 46.6 | 46.4 | 46.0 | 45.4 | 45.0 | 44.4 | 43.2 |
| 162.5° | *43.4* | 43.2 | 43.2 | 43.0 | 42.8 | 42.4 | 42.2 | 42.0 | 41.3 | 40.7 | 39.7 |
| 165° | *39.9* | 39.9 | 39.9 | 39.7 | 39.5 | 39.3 | 39.1 | 38.7 | 38.3 | 37.9 | 37.3 |
| 167.5° | *37.3* | 37.3 | 37.3 | 37.1 | 37.1 | 36.9 | 36.7 | 36.3 | 35.8 | 35.4 | 35.0 |
| 170° | *35.2* | 35.2 | 35.2 | 35.0 | 34.8 | 34.6 | 34.4 | 34.2 | 34.0 | 33.6 | 33.4 |
| 172.5° | *33.6* | 33.6 | 33.6 | 33.6 | 33.2 | 33.0 | 32.8 | 32.8 | 32.6 | 32.4 | 32.2 |
| 175° | *32.2* | 32.2 | 32.2 | 32.2 | 32.0 | 31.8 | 31.6 | 31.6 | 31.4 | 31.2 | 31.0 |
| 177.5° | *31.4* | 31.4 | 31.4 | 31.2 | 31.2 | 31.0 | 30.8 | 30.8 | 30.6 | 30.6 | 30.3 |
| 180° | *30.3* | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 |
| 2.5° | 17.5 | 16.7 | 15.3 | 14.1 | 13.0 | 12.0 | 11.4 | 10.8 | 10.8 | 11.0 | 10.6 |
| 5° | 21.2 | 19.8 | 17.1 | 14.3 | 11.8 | 9.8 | 8.1 | 6.7 | 5.5 | 4.9 | 4.9 |
| 7.5° | 28.1 | 26.5 | 22.8 | 19.1 | 15.7 | 12.4 | 9.8 | 7.5 | 5.7 | 4.7 | 4.5 |
| 10° | 36.1 | 34.2 | 29.1 | 24.6 | 20.4 | 16.3 | 12.8 | 9.8 | 7.7 | 6.7 | 6.5 |
| 12.5° | 45.2 | 42.8 | 36.7 | 31.0 | 25.5 | 20.4 | 16.1 | 12.6 | 10.6 | 9.6 | 9.4 |
| 15° | 55.8 | 51.9 | 45.0 | 37.9 | 30.8 | 24.4 | 19.3 | 15.5 | 13.2 | 11.8 | 11.8 |
| 17.5° | 65.4 | 61.3 | 53.0 | 43.8 | 35.6 | 28.3 | 22.2 | 17.5 | 14.5 | 13.0 | 12.8 |
| 20° | 76.4 | 70.9 | 60.9 | 50.3 | 40.3 | 31.4 | 24.0 | 18.7 | 15.1 | 13.2 | 13.2 |
| 22.5° | 87.6 | 81.9 | 69.7 | 56.8 | 44.8 | 34.2 | 25.9 | 19.6 | 15.5 | 13.4 | 13.2 |
| 25° | 100.8 | 93.1 | 78.4 | 64.0 | 49.9 | 37.3 | 27.5 | 20.4 | 15.9 | 13.8 | 13.4 |
| 27.5° | 113.7 | 105.7 | 88.6 | 71.1 | 54.6 | 40.3 | 28.9 | 21.2 | 16.3 | 14.1 | 13.8 |
| 30° | 127.1 | 117.3 | 98.0 | 78.4 | 59.5 | 43.0 | 30.3 | 21.8 | 16.5 | 14.3 | 13.8 |
| 32.5° | 140.5 | 129.7 | 108.4 | 85.5 | 64.2 | 45.4 | 31.6 | 22.2 | 16.9 | 14.5 | 14.1 |
| 35° | 154.2 | 142.6 | 118.3 | 92.7 | 68.4 | 47.7 | 32.4 | 22.6 | 17.1 | 14.5 | 14.3 |
| 37.5° | 166.0 | 153.8 | 127.7 | 99.2 | 72.1 | 49.5 | 33.2 | 23.0 | 17.1 | 14.7 | 14.5 |
| 40° | 177.8 | 164.6 | 135.9 | 104.7 | 75.4 | 50.9 | 33.8 | 23.2 | 17.3 | 14.9 | 14.7 |
| 42.5° | 188.4 | 173.7 | 143.0 | 109.6 | 78.0 | 51.9 | 34.0 | 23.2 | 17.5 | 15.1 | 14.9 |
| 45° | 198.0 | 183.1 | 149.7 | 114.3 | 80.2 | 52.5 | 34.2 | 23.4 | 17.7 | 15.3 | 15.1 |
| 47.5° | 206.7 | 190.8 | 155.8 | 118.1 | 82.1 | 53.2 | 34.2 | 23.4 | 17.9 | 15.7 | 15.3 |
| 50° | 214.1 | 197.4 | 160.9 | 121.4 | 83.3 | 53.4 | 34.0 | 23.4 | 18.1 | 15.9 | 15.7 |
| 52.5° | 219.8 | 202.9 | 165.2 | 123.6 | 84.1 | 53.2 | 33.8 | 23.4 | 18.3 | 16.1 | 15.9 |
| 55° | 224.7 | 207.3 | 168.2 | 125.5 | 84.3 | 52.8 | 33.6 | 23.4 | 18.5 | 16.5 | 16.3 |
| 57.5° | 228.3 | 210.6 | 170.9 | 126.9 | 84.5 | 52.3 | 33.2 | 23.4 | 18.7 | 16.7 | 16.5 |
| 60° | 231.2 | 213.5 | 172.9 | 127.7 | 84.3 | 51.7 | 33.0 | 23.4 | 18.9 | 17.1 | 16.9 |
| 62.5° | 233.2 | 215.1 | 174.1 | 127.9 | 83.7 | 51.1 | 32.6 | 23.4 | 19.1 | 17.5 | 17.3 |
| 65° | 234.4 | 216.3 | 175.2 | 128.1 | 83.1 | 50.5 | 32.4 | 23.6 | 19.6 | 18.1 | 17.9 |
| 67° | *234.8* | *216.9* | *175.4* | *128.1* | *82.7* | *50.1* | *32.4* | *23.8* | *20.0* | *18.3* | *18.1* |
| 67.5° | 235.0 | 216.9 | 175.4 | 127.9 | 82.5 | 50.1 | 32.4 | 23.8 | 20.0 | 18.5 | 18.3 |
| 70° | 234.8 | 216.9 | 175.4 | 127.5 | 81.9 | 49.7 | 32.2 | 24.2 | 20.6 | 19.1 | 18.9 |
| 72.5° | 234.4 | 216.5 | 175.0 | 126.9 | 81.1 | 49.3 | 32.4 | 24.6 | 21.2 | 19.8 | 19.6 |
| 75° | 233.4 | 215.7 | 174.1 | 126.1 | 80.5 | 48.9 | 32.6 | 25.1 | 21.8 | 20.6 | 20.4 |
| 77.5° | 232.4 | 214.7 | 173.5 | 125.3 | 79.8 | 48.9 | 32.8 | 25.7 | 22.6 | 21.4 | 21.2 |
| 80° | 230.6 | 213.2 | 172.3 | 124.4 | 79.2 | 48.7 | 33.2 | 26.5 | 23.4 | 22.2 | 22.0 |
| 82.5° | 228.3 | 211.2 | 170.7 | 123.2 | 78.6 | 48.7 | 33.8 | 27.1 | 24.2 | 23.0 | 22.8 |
| 85° | 225.3 | 208.6 | 168.6 | 121.6 | 78.0 | 48.9 | 34.2 | 27.9 | 25.1 | 24.0 | 23.8 |
| 87.5° | 221.8 | 205.3 | 166.2 | 120.2 | 77.4 | 48.9 | 34.8 | 28.7 | 25.9 | 24.8 | 24.8 |
| 90° | 217.7 | 201.8 | 163.3 | 118.5 | 76.8 | 49.3 | 35.6 | 29.5 | 26.9 | 25.9 | 25.9 |
| 92.5° | 214.1 | 198.2 | 161.1 | 116.9 | 76.4 | 49.7 | 36.5 | 30.6 | 27.9 | 26.9 | 26.9 |
| 95° | 209.2 | 194.3 | 157.8 | 115.5 | 76.2 | 50.1 | 37.3 | 31.6 | 29.1 | 28.1 | 27.9 |
| 97.5° | 204.5 | 190.0 | 155.0 | 113.9 | 76.0 | 50.9 | 38.3 | 32.8 | 30.1 | 29.1 | 29.1 |
| 100° | 199.4 | 185.8 | 151.7 | 112.4 | 76.0 | 51.9 | 39.7 | 34.0 | 31.6 | 30.6 | 30.3 |
| 102.5° | 194.5 | 181.1 | 148.5 | 111.0 | 76.4 | 53.0 | 41.1 | 35.4 | 33.0 | 32.0 | 31.8 |
| 105° | 189.0 | 176.2 | 145.6 | 109.8 | 76.8 | 54.4 | 42.8 | 37.3 | 34.6 | 33.6 | 33.4 |
| 107.5° | 183.5 | 171.7 | 142.4 | 108.8 | 77.6 | 56.2 | 44.8 | 39.1 | 36.5 | 35.2 | 35.0 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045830
CATALOG NUMBER: FFX-CLB-20-722-U-VM8-T5-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 177.6 | 166.8 | 139.5 | 107.9 | 78.8 | 58.3 | 47.0 | 41.5 | 38.5 | 37.3 | 37.1 |
| 112.5° | 172.1 | 161.9 | 136.5 | 107.3 | 80.0 | 60.7 | 49.7 | 43.8 | 40.9 | 39.3 | 39.1 |
| 115° | 166.0 | 156.8 | 133.6 | 106.7 | 81.5 | 63.1 | 52.5 | 46.2 | 43.2 | 41.5 | 41.5 |
| 117.5° | 160.1 | 151.5 | 130.4 | 106.1 | 82.9 | 65.8 | 55.2 | 48.9 | 45.4 | 43.8 | 43.6 |
| 120° | 153.2 | 145.8 | 126.9 | 104.9 | 83.7 | 67.8 | 57.4 | 51.1 | 47.3 | 45.6 | 45.4 |
| 122.5° | 146.2 | 139.5 | 122.4 | 103.1 | 83.9 | 69.0 | 59.1 | 53.0 | 48.9 | 47.0 | 46.8 |
| 125° | 138.3 | 132.6 | 117.7 | 100.2 | 83.3 | 69.7 | 60.1 | 53.6 | 49.5 | 47.5 | 47.3 |
| 127.5° | 130.6 | 125.1 | 112.2 | 96.7 | 81.7 | 69.0 | 59.9 | 53.6 | 49.5 | 47.3 | 47.0 |
| 130° | 122.2 | 117.3 | 105.7 | 92.5 | 79.0 | 67.6 | 59.1 | 52.8 | 48.7 | 46.4 | 46.2 |
| 132.5° | 113.7 | 109.6 | 99.4 | 87.8 | 75.8 | 65.4 | 57.2 | 51.3 | 47.3 | 45.2 | 45.0 |
| 135° | 105.3 | 101.6 | 92.9 | 82.5 | 72.3 | 62.7 | 55.2 | 49.5 | 45.4 | 43.6 | 43.6 |
| 137.5° | 97.4 | 93.9 | 86.2 | 77.4 | 68.2 | 59.7 | 52.8 | 47.3 | 43.8 | 42.0 | 41.5 |
| 140° | 89.2 | 86.4 | 79.6 | 71.9 | 64.0 | 56.4 | 50.1 | 45.0 | 41.8 | 40.1 | 39.9 |
| 142.5° | 81.7 | 79.2 | 73.5 | 67.2 | 59.9 | 53.4 | 47.5 | 43.2 | 40.1 | 38.5 | 38.3 |
| 145° | 74.5 | 72.3 | 67.4 | 61.7 | 55.8 | 50.1 | 44.8 | 40.9 | 38.3 | 37.1 | 36.9 |
| 147.5° | 67.4 | 66.0 | 61.9 | 57.2 | 51.7 | 46.6 | 42.4 | 39.1 | 36.7 | 35.6 | 35.4 |
| 150° | 61.5 | 59.7 | 56.6 | 52.3 | 48.1 | 43.8 | 40.1 | 37.3 | 35.4 | 34.4 | 34.4 |
| 152.5° | 55.6 | 54.6 | 51.5 | 48.3 | 44.6 | 41.1 | 37.9 | 35.6 | 34.2 | 33.4 | 33.4 |
| 155° | 51.1 | 49.7 | 47.0 | 44.4 | 41.3 | 38.5 | 36.3 | 34.4 | 33.2 | 32.6 | 32.4 |
| 157.5° | 46.4 | 45.6 | 43.6 | 41.1 | 38.9 | 36.7 | 34.8 | 33.4 | 32.4 | 32.0 | 31.8 |
| 160° | 42.6 | 42.0 | 40.3 | 38.5 | 36.7 | 35.0 | 33.6 | 32.6 | 31.8 | 31.4 | 31.4 |
| 162.5° | 39.3 | 38.9 | 37.5 | 36.3 | 34.8 | 33.6 | 32.6 | 31.8 | 31.4 | 31.2 | 31.2 |
| 165° | 36.9 | 36.5 | 35.4 | 34.4 | 33.6 | 32.6 | 32.0 | 31.4 | 31.0 | 31.0 | 31.0 |
| 167.5° | 34.8 | 34.4 | 33.8 | 33.2 | 32.6 | 31.8 | 31.4 | 31.0 | 31.0 | 30.8 | 30.8 |
| 170° | 33.2 | 33.0 | 32.4 | 32.0 | 31.6 | 31.2 | 31.0 | 30.8 | 30.6 | 30.6 | 30.6 |
| 172.5° | 32.0 | 31.8 | 31.4 | 31.2 | 30.8 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 |
| 175° | 31.0 | 30.8 | 30.8 | 30.6 | 30.3 | 30.3 | 30.1 | 30.3 | 30.3 | 30.3 | 30.3 |
| 177.5° | 30.3 | 30.3 | 30.1 | 30.1 | 30.1 | 30.1 | 30.1 | 30.3 | 30.3 | 30.6 | 30.6 |
| 180° | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

# LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

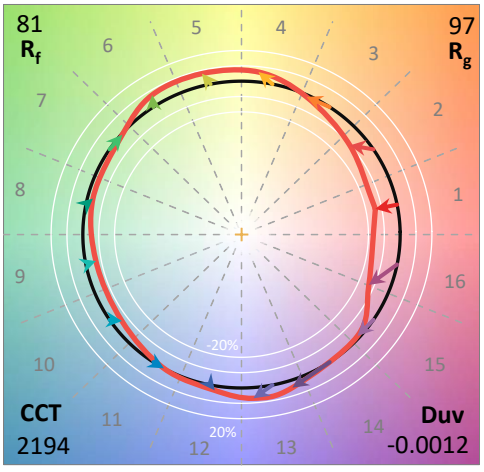
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-7 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 03/31/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | Streetworks |
| Catalog Number: | **FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS** |
| Description: | FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD |

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 2194 | CRI (Ra): | 76.9 | | |
| CIE u': | 0.2907 | R1: | 75.7 | R9: | -13.4 |
| CIE v': | 0.5343 | R2: | 91.6 | R10: | 84.3 |
| Duv: | -0.0012 | R3: | 88.2 | R11: | 74.6 |
| CIE x: | 0.5035 | R4: | 73.5 | R12: | 85.6 |
| CIE y: | 0.4113 | R5: | 77.0 | R13: | 79.4 |
| CIE z: | 0.0852 | R6: | 93.6 | R14: | 93.9 |
| Peak Wavelength (nm): | 608 | R7: | 73.2 | R15: | 65.4 |
| Dominant Wavelength (nm): | 587 | R8: | 42.7 | | |
| Purity: | 74.59755 | | | | |

| | |
|---|---|
| Rf: | 81 |
| Rg: | 96.6 |




## Test Conditions

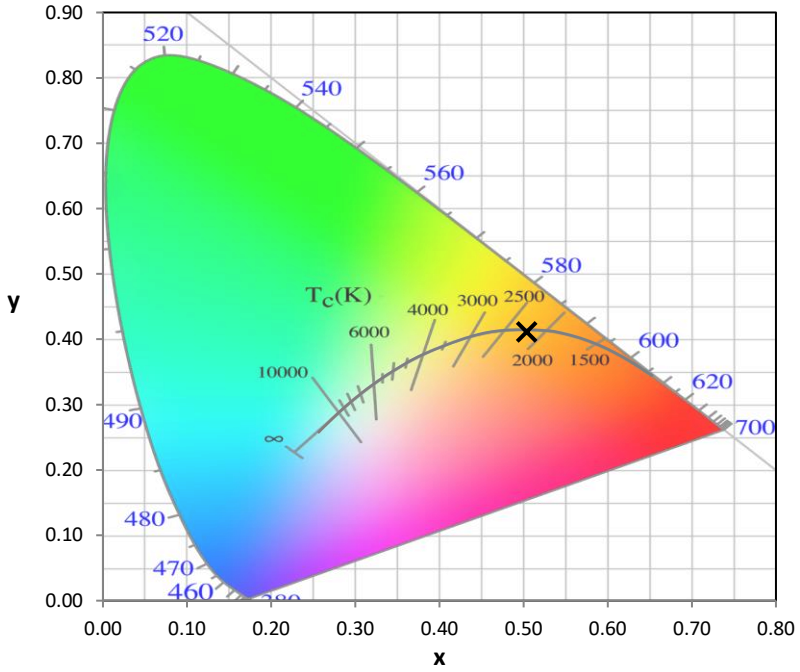
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 24.8 |

REPORT NUMBER: SP1-2501-332-7

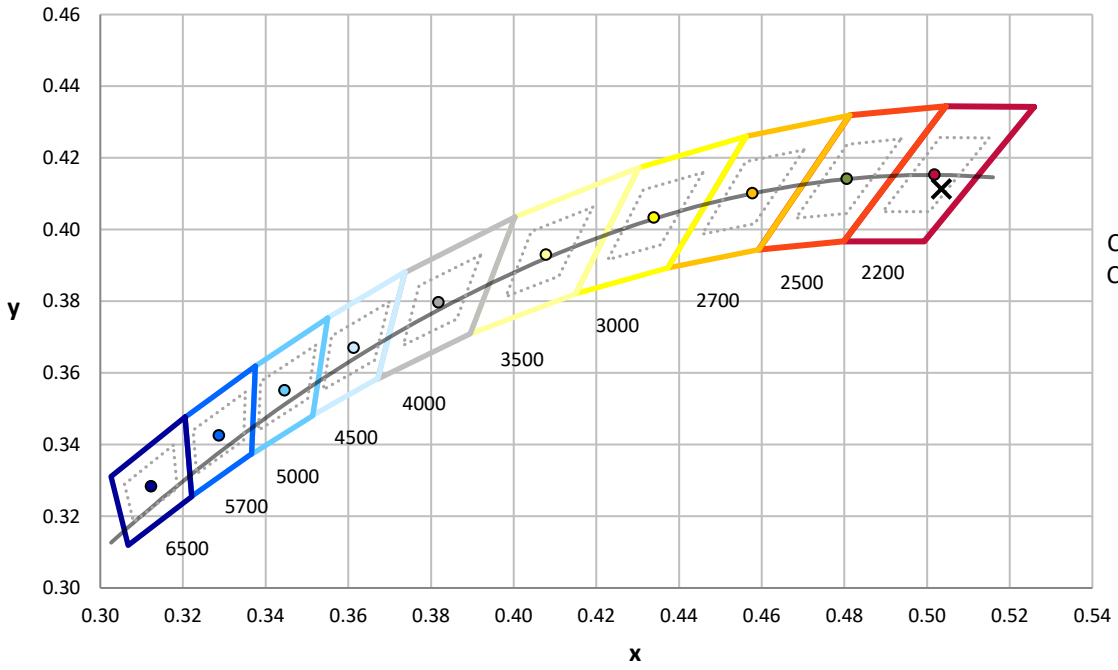
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC Power Source | IN0208 | 10/22/2024 | 10/22/2025 |
| Sphere Thermometer | IN0085 | 10/22/2024 | 10/22/2025 |
| Room Thermometer | IN0046 | 10/22/2024 | 10/22/2025 |

REPORT NUMBER: SP1-2501-332-7

## CIE 1931 Chromaticity Diagram




## CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

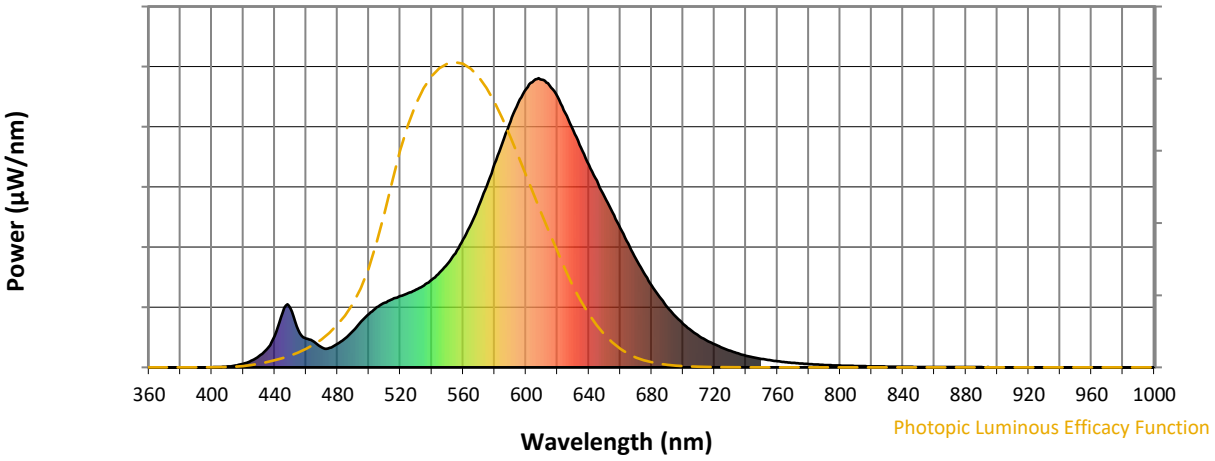



CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

## Photopic Flux vs. Wavelength

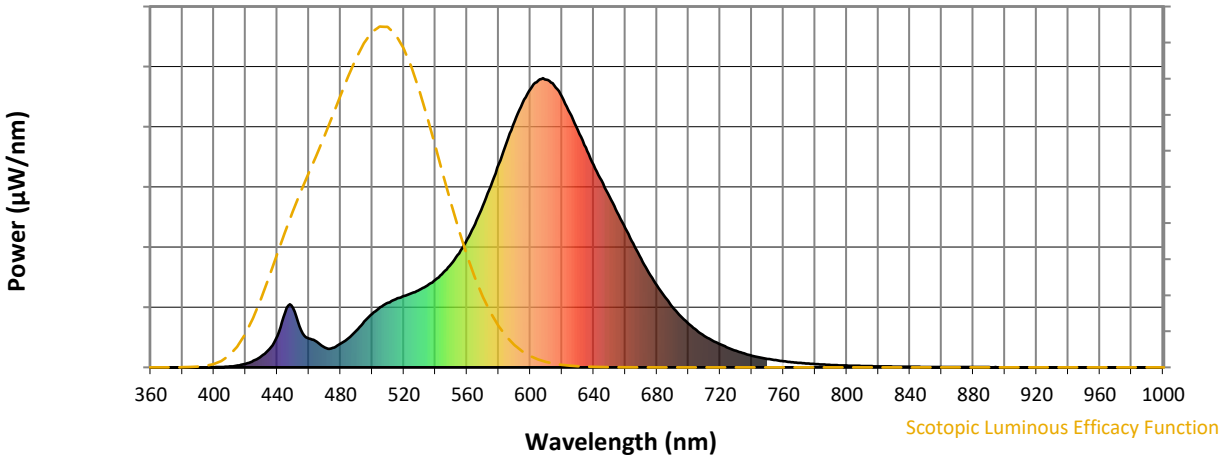



## Photopic Lumens: NR

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 127 | NR | 620 | 937 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 158 | NR | 625 | 880 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 185 | NR | 630 | 820 | NR | 760 | 21 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 208 | NR | 635 | 760 | NR | 765 | 18 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 224 | NR | 640 | 700 | NR | 770 | 15 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 236 | NR | 645 | 646 | NR | 775 | 13 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 247 | NR | 650 | 590 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 257 | NR | 655 | 535 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 269 | NR | 660 | 481 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 1 | NR | 535 | 284 | NR | 665 | 428 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 3 | NR | 540 | 303 | NR | 670 | 376 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 6 | NR | 545 | 328 | NR | 675 | 327 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 12 | NR | 550 | 358 | NR | 680 | 283 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 23 | NR | 555 | 394 | NR | 685 | 244 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 39 | NR | 560 | 442 | NR | 690 | 209 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 63 | NR | 565 | 496 | NR | 695 | 178 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 108 | NR | 570 | 559 | NR | 700 | 151 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 190 | NR | 575 | 628 | NR | 705 | 128 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 205 | NR | 580 | 704 | NR | 710 | 108 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 128 | NR | 585 | 777 | NR | 715 | 93 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 100 | NR | 590 | 850 | NR | 720 | 80 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 89 | NR | 595 | 914 | NR | 725 | 67 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 68 | NR | 600 | 963 | NR | 730 | 57 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 992 | NR | 735 | 48 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 82 | NR | 610 | 995 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 101 | NR | 615 | 975 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-7

## Scotopic Flux vs. Wavelength

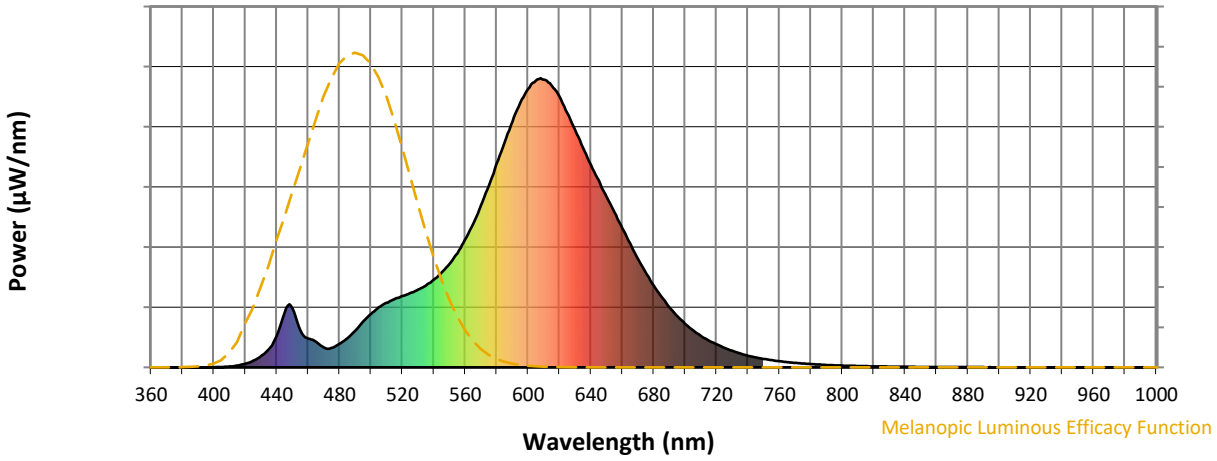



**Scotopic Lumens: NR** **S/P: 0.96**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 127 | NR | 620 | 937 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 158 | NR | 625 | 880 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 185 | NR | 630 | 820 | NR | 760 | 21 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 208 | NR | 635 | 760 | NR | 765 | 18 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 224 | NR | 640 | 700 | NR | 770 | 15 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 236 | NR | 645 | 646 | NR | 775 | 13 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 247 | NR | 650 | 590 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 257 | NR | 655 | 535 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 269 | NR | 660 | 481 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 1 | NR | 535 | 284 | NR | 665 | 428 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 3 | NR | 540 | 303 | NR | 670 | 376 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 6 | NR | 545 | 328 | NR | 675 | 327 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 12 | NR | 550 | 358 | NR | 680 | 283 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 23 | NR | 555 | 394 | NR | 685 | 244 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 39 | NR | 560 | 442 | NR | 690 | 209 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 63 | NR | 565 | 496 | NR | 695 | 178 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 108 | NR | 570 | 559 | NR | 700 | 151 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 190 | NR | 575 | 628 | NR | 705 | 128 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 205 | NR | 580 | 704 | NR | 710 | 108 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 128 | NR | 585 | 777 | NR | 715 | 93 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 100 | NR | 590 | 850 | NR | 720 | 80 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 89 | NR | 595 | 914 | NR | 725 | 67 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 68 | NR | 600 | 963 | NR | 730 | 57 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 992 | NR | 735 | 48 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 82 | NR | 610 | 995 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 101 | NR | 615 | 975 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-7

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 1.7**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 127 | NR | 620 | 937 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 158 | NR | 625 | 880 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 185 | NR | 630 | 820 | NR | 760 | 21 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 208 | NR | 635 | 760 | NR | 765 | 18 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 224 | NR | 640 | 700 | NR | 770 | 15 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 236 | NR | 645 | 646 | NR | 775 | 13 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 247 | NR | 650 | 590 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 257 | NR | 655 | 535 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 269 | NR | 660 | 481 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 1 | NR | 535 | 284 | NR | 665 | 428 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 3 | NR | 540 | 303 | NR | 670 | 376 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 6 | NR | 545 | 328 | NR | 675 | 327 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 12 | NR | 550 | 358 | NR | 680 | 283 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 23 | NR | 555 | 394 | NR | 685 | 244 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 39 | NR | 560 | 442 | NR | 690 | 209 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 63 | NR | 565 | 496 | NR | 695 | 178 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 108 | NR | 570 | 559 | NR | 700 | 151 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 190 | NR | 575 | 628 | NR | 705 | 128 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 205 | NR | 580 | 704 | NR | 710 | 108 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 128 | NR | 585 | 777 | NR | 715 | 93 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 100 | NR | 590 | 850 | NR | 720 | 80 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 89 | NR | 595 | 914 | NR | 725 | 67 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 68 | NR | 600 | 963 | NR | 730 | 57 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 992 | NR | 735 | 48 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 82 | NR | 610 | 995 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 101 | NR | 615 | 975 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

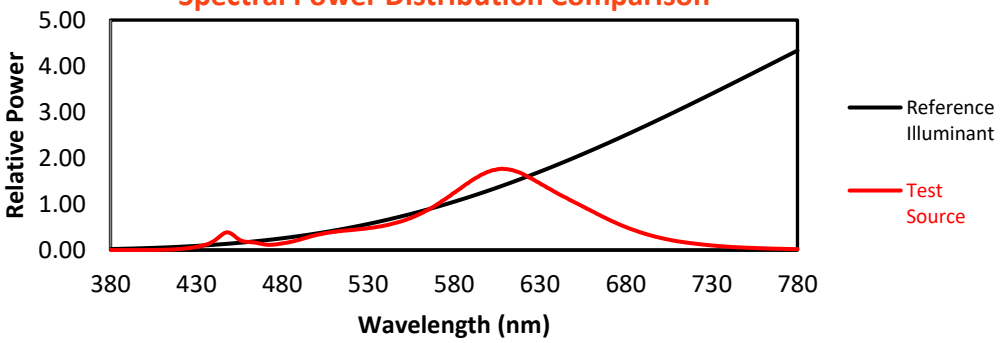
REPORT NUMBER: SP1-2501-332-7

# TM-30-18

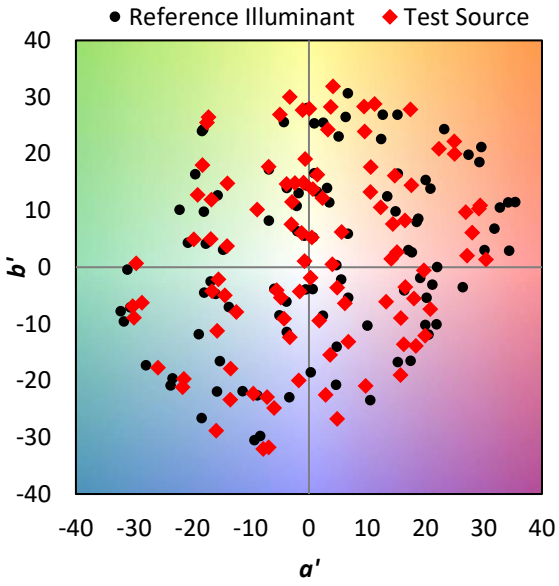
## Summary

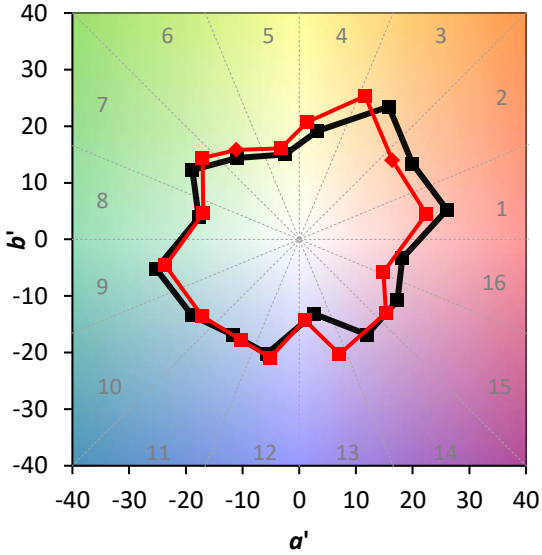
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$R_g$ = 96.6
CIE $R_a$ = 76.9
$R_9$ = -13.4

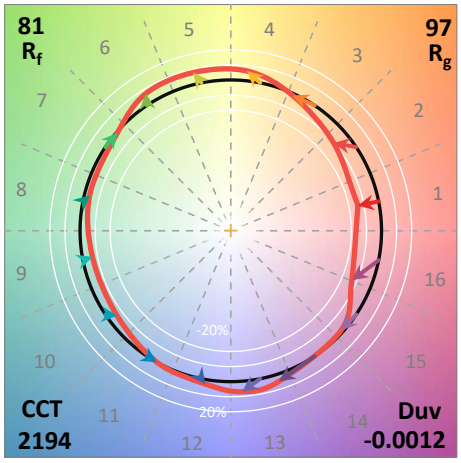
## Spectral Power Distribution Comparison

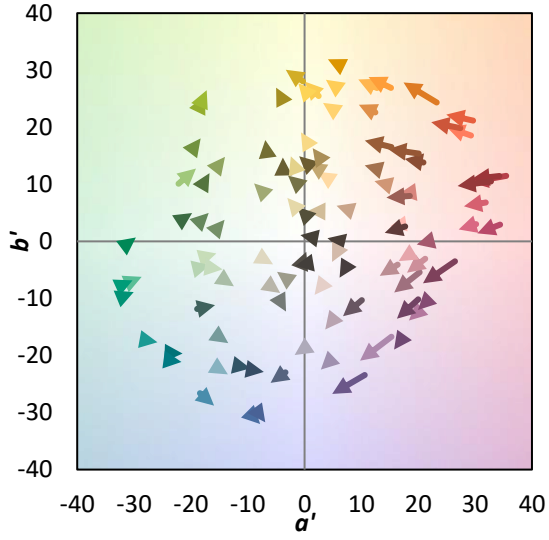



## Color Vector Graphics



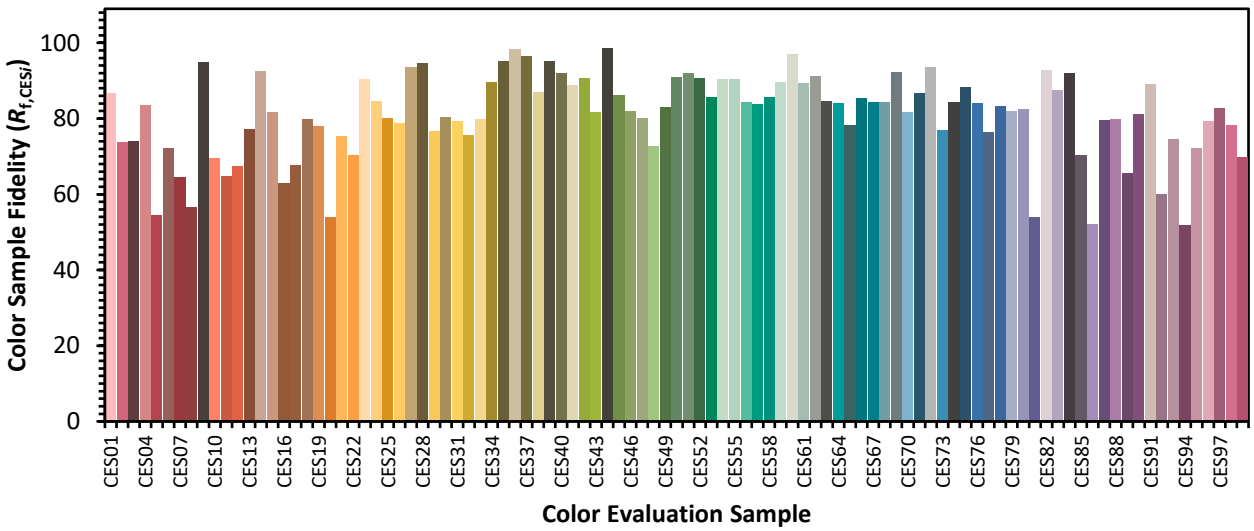



REPORT NUMBER: SP1-2501-332-7

# TM-30-18

**Individual Sample Fidelity Index ($R_{f,i}$)**

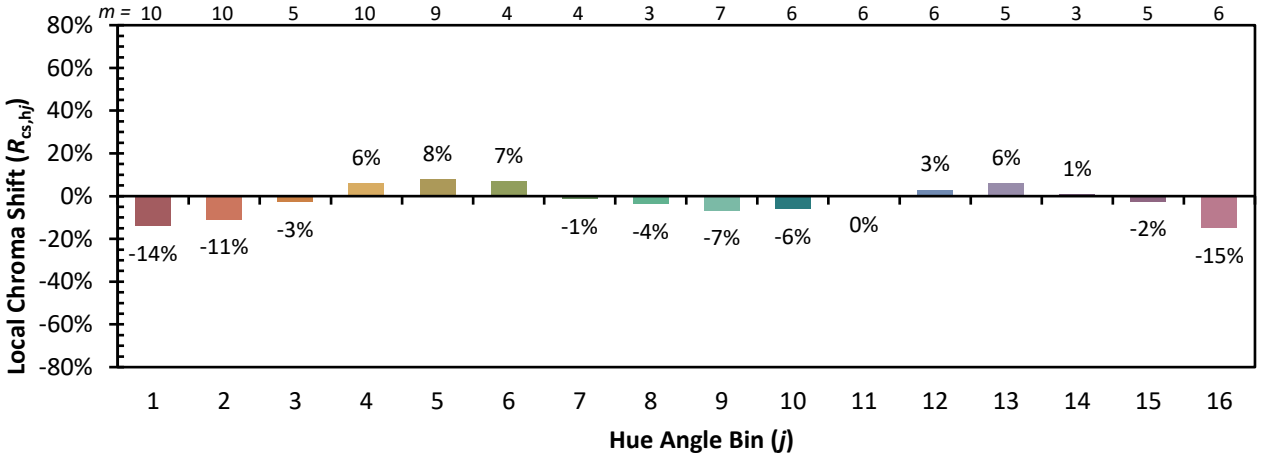
| | | | |
|---|---|---|---|
| CES01 = 87 | CES26 = 79 | CES51 = 92 | CES76 = 84 |
| CES02 = 65 | CES27 = 94 | CES52 = 91 | CES77 = 76 |
| CES03 = 32 | CES28 = 95 | CES53 = 86 | CES78 = 83 |
| CES04 = 72 | CES29 = 77 | CES54 = 90 | CES79 = 82 |
| CES05 = 52 | CES30 = 80 | CES55 = 90 | CES80 = 82 |
| CES06 = 52 | CES31 = 79 | CES56 = 84 | CES81 = 54 |
| CES07 = 44 | CES32 = 76 | CES57 = 84 | CES82 = 93 |
| CES08 = 43 | CES33 = 80 | CES58 = 86 | CES83 = 88 |
| CES09 = 29 | CES34 = 90 | CES59 = 90 | CES84 = 92 |
| CES10 = 79 | CES35 = 95 | CES60 = 97 | CES85 = 70 |
| CES11 = 62 | CES36 = 98 | CES61 = 89 | CES86 = 52 |
| CES12 = 68 | CES37 = 96 | CES62 = 91 | CES87 = 80 |
| CES13 = 45 | CES38 = 87 | CES63 = 85 | CES88 = 80 |
| CES14 = 75 | CES39 = 95 | CES64 = 84 | CES89 = 66 |
| CES15 = 73 | CES40 = 92 | CES65 = 78 | CES90 = 81 |
| CES16 = 49 | CES41 = 89 | CES66 = 85 | CES91 = 89 |
| CES17 = 51 | CES42 = 91 | CES67 = 84 | CES92 = 60 |
| CES18 = 57 | CES43 = 82 | CES68 = 84 | CES93 = 74 |
| CES19 = 74 | CES44 = 99 | CES69 = 92 | CES94 = 52 |
| CES20 = 69 | CES45 = 86 | CES70 = 82 | CES95 = 72 |
| CES21 = 88 | CES46 = 82 | CES71 = 87 | CES96 = 79 |
| CES22 = 81 | CES47 = 80 | CES72 = 94 | CES97 = 83 |
| CES23 = 92 | CES48 = 73 | CES73 = 77 | CES98 = 78 |
| CES24 = 92 | CES49 = 83 | CES74 = 84 | CES99 = 70 |
| CES25 = 73 | CES50 = 91 | CES75 = 88 | |

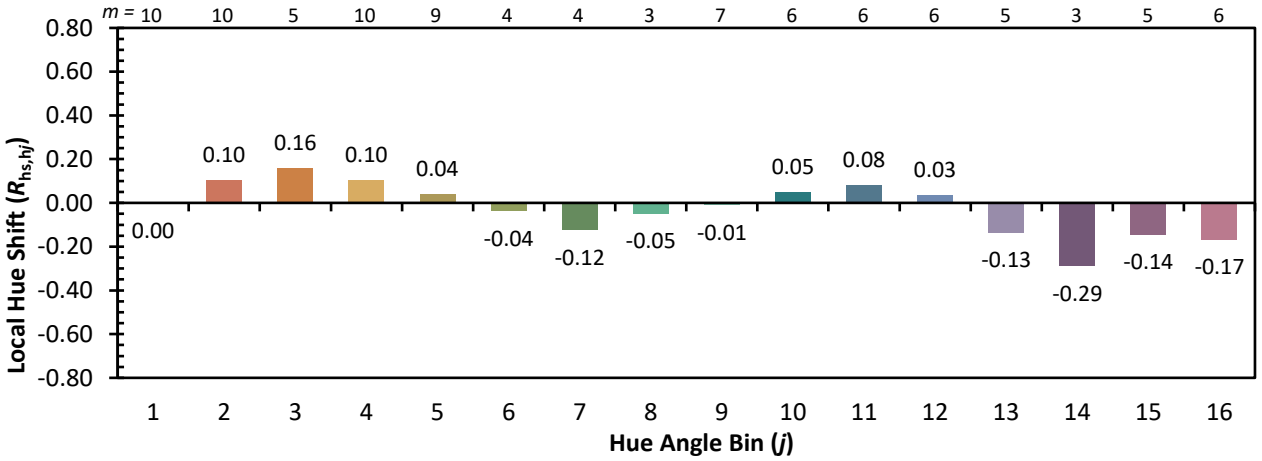


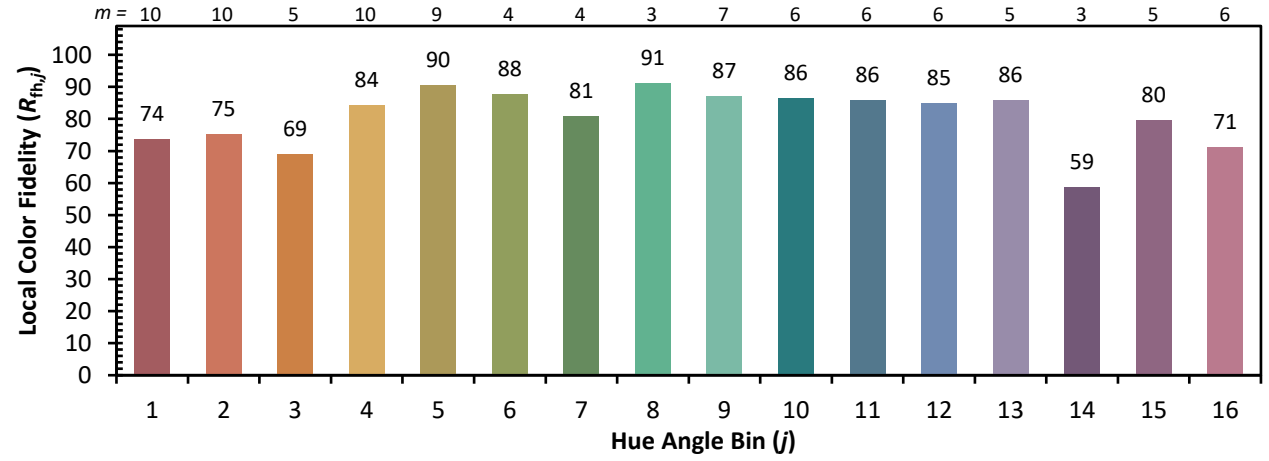
REPORT NUMBER: SP1-2501-332-7

# TM-30-18

## Color Rendition by Hue-Angle Bin



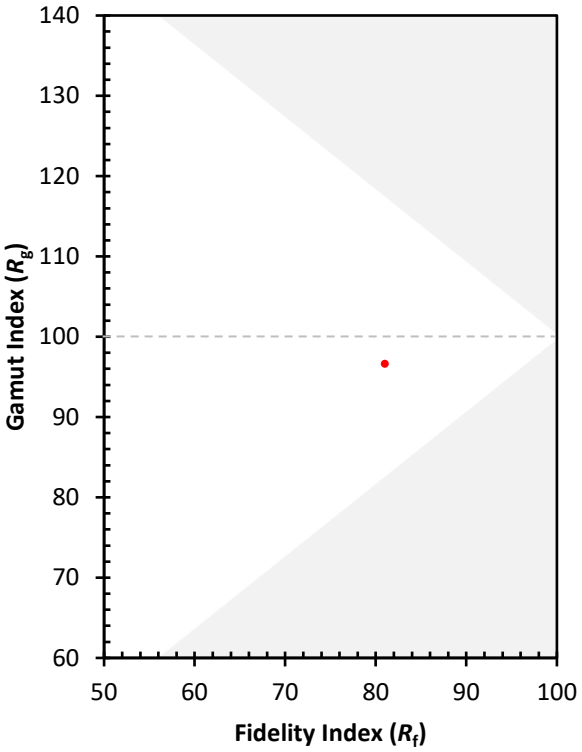



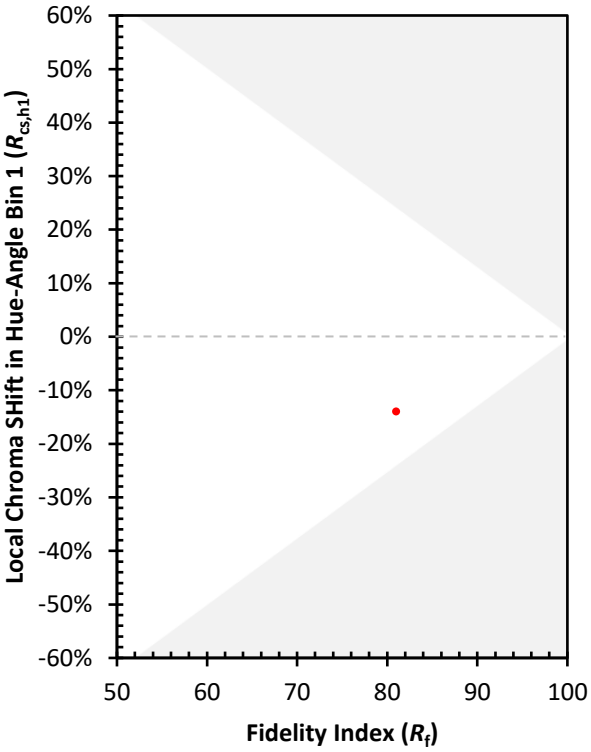



REPORT NUMBER: SP1-2501-332-7

## TM-30-18

### Measure Comparisons




(END OF REPORT)