

Signify Classified - Internal  
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: P1175341

Luminaire Tested: **FFX-CLB-30-AMB-U-FR-T4-UPLR**

Issue Date: 08/12/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1175341  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 08/12/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-30-AMB-U-FR-T4-UPLR  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR  
Light Source: (4) 1500K CCT, 0 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 800.9 lumens  
Efficiency: N/A  
Efficacy: 27.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U3 - G1

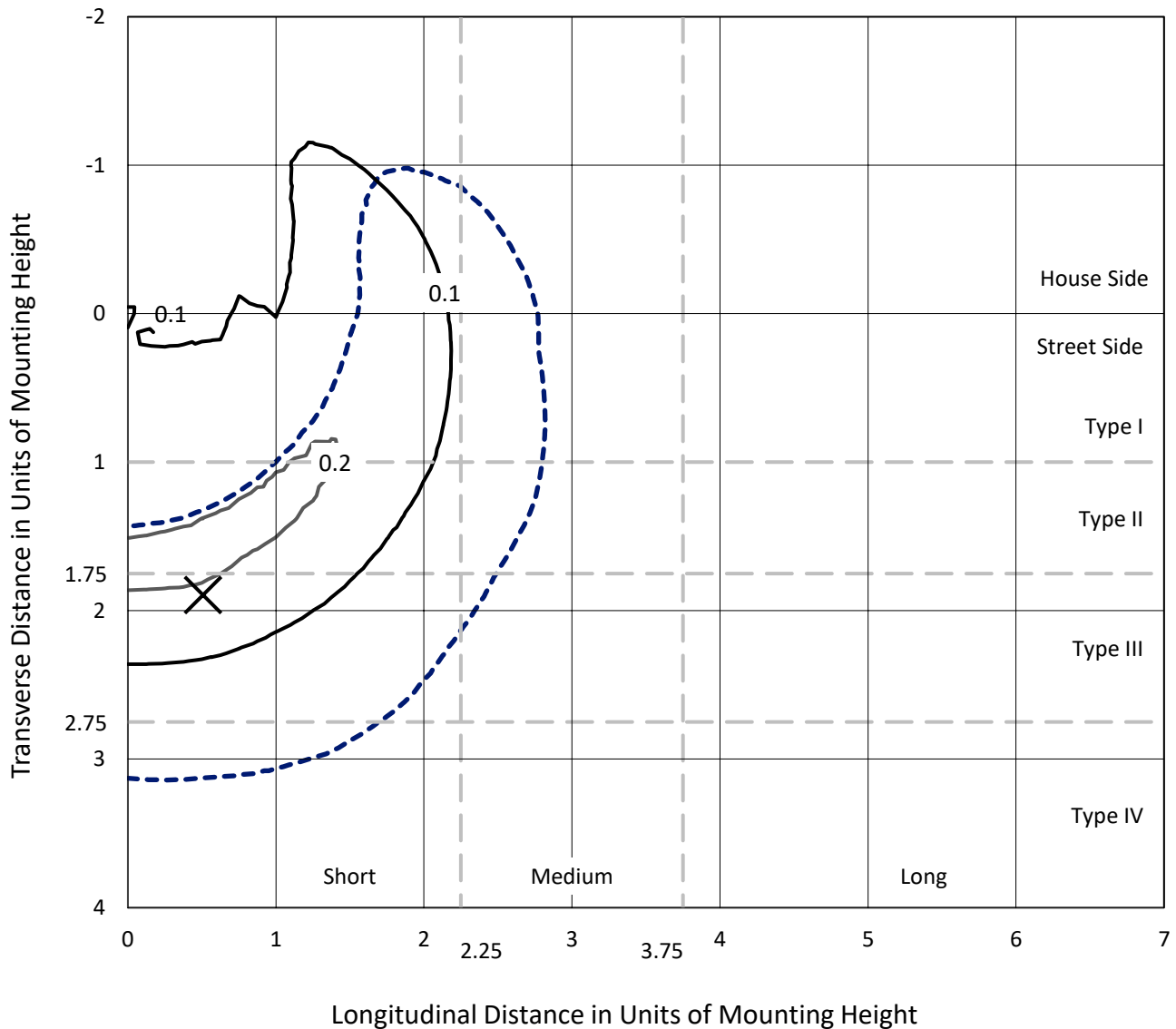
Input Watts (W): 28.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

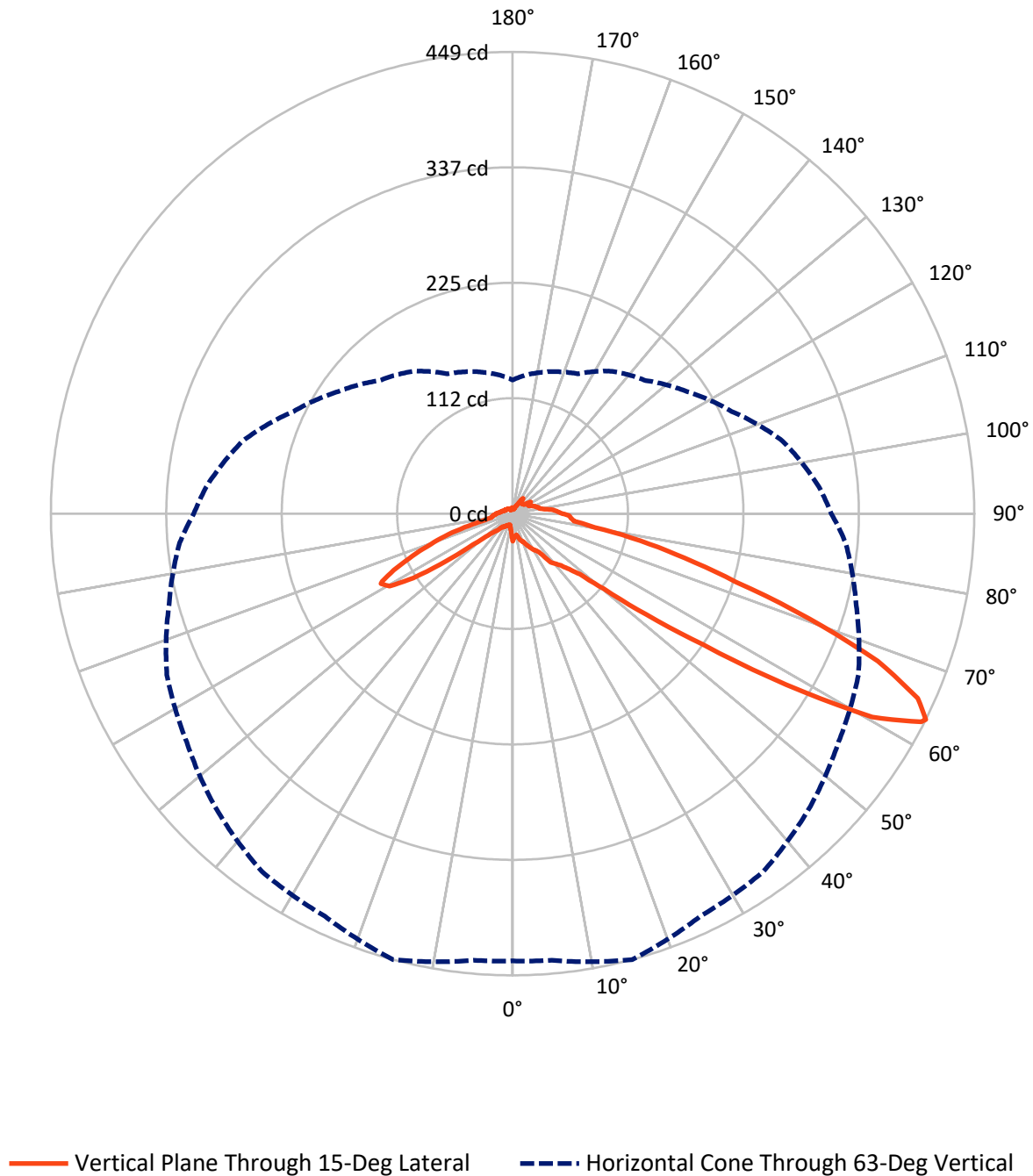
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.2 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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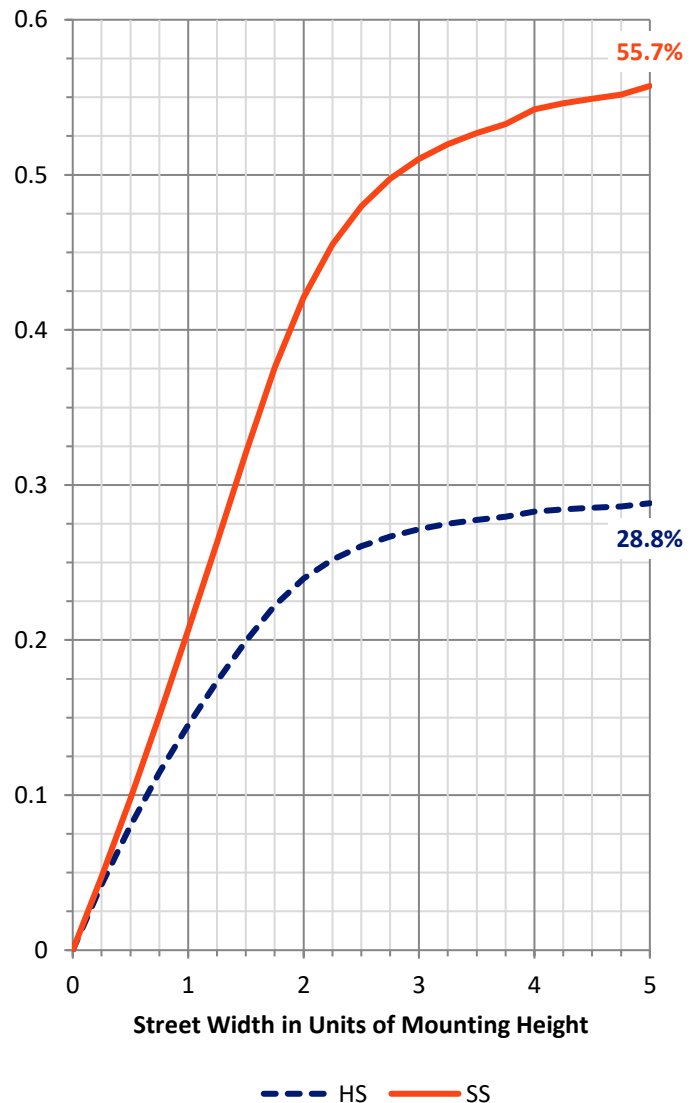
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total |
|--------------------|-----------|----------|--------|-------|
| <b>House Side</b>  | Lumens    | 238.4    | 37.0   | 275.4 |
|                    | % Fixture | 29.8     | 4.6    | 34.4  |
| <b>Street Side</b> | Lumens    | 464.2    | 61.3   | 525.5 |
|                    | % Fixture | 58.0     | 7.7    | 65.6  |
| <b>Total</b>       | Lumens    | 702.7    | 98.2   | 800.9 |
|                    | % Fixture | 87.7     | 12.3   | 100.0 |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.7    | 0.2       |
| 10°-20°   | 5.5    | 0.7       |
| 20°-30°   | 11.7   | 1.5       |
| 30°-40°   | 23.6   | 2.9       |
| 40°-50°   | 47.4   | 5.9       |
| 50°-60°   | 157.4  | 19.7      |
| 60°-70°   | 269.4  | 33.6      |
| 70°-80°   | 134.7  | 16.8      |
| 80°-90°   | 51.3   | 6.4       |
| 90°-100°  | 31.2   | 3.9       |
| 100°-110° | 19.5   | 2.4       |
| 110°-120° | 14.3   | 1.8       |
| 120°-130° | 12.3   | 1.5       |
| 130°-140° | 8.4    | 1.0       |
| 140°-150° | 7.4    | 0.9       |
| 150°-160° | 3.3    | 0.4       |
| 160°-170° | 1.4    | 0.2       |
| 170°-180° | 0.5    | 0.1       |
| 0°-90°    | 702.7  | 87.7      |
| 0°-180°   | 800.9  | 100.0     |



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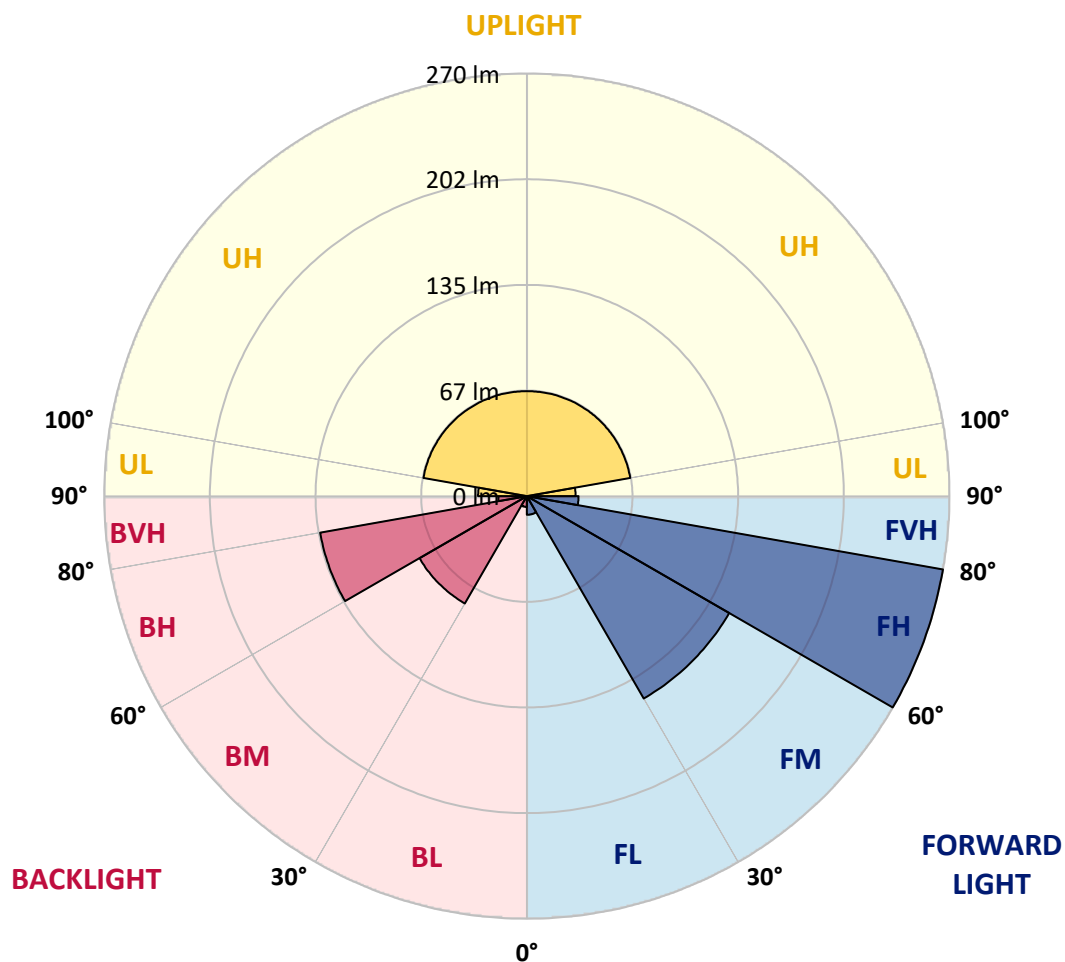
CATALOG NUMBER: FFX-CLB-30-AMB-U-FR-T4-UPLR

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |        |
|------|-------------|--------|-----------|-------------------------|--------|--------|
|      |             |        |           | B                       | U      | G      |
| FL   | (0°-30°)    | 11.9   | 1.5       |                         |        |        |
| FM   | (30°-60°)   | 149.3  | 18.6      |                         |        |        |
| FH   | (60°-80°)   | 270.0  | 33.7      |                         |        | G0/660 |
| FVH  | (80°-90°)   | 33.0   | 4.1       |                         |        | G1/100 |
| BL   | (0°-30°)    | 6.9    | 0.9       | B0/110                  |        |        |
| BM   | (30°-60°)   | 79.2   | 9.9       | B0/220                  |        |        |
| BH   | (60°-80°)   | 134.1  | 16.7      | B1/500                  |        | G1/500 |
| BVH  | (80°-90°)   | 18.2   | 2.3       |                         |        | G1/100 |
| UL   | (90°-100°)  | 31.2   | 3.9       |                         | U2/50  |        |
| UH   | (100°-180°) | 67.1   | 8.4       |                         | U3/500 |        |

**BUG Rating: B1-U3-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0°     | 27  | 27  | 27  | 27  | 27  | 27  | 27  | 27  | 27  | 27  | 27  |
| 2.5°   | 22  | 22  | 23  | 24  | 24  | 22  | 19  | 17  | 19  | 22  | 23  |
| 5°     | 24  | 23  | 23  | 22  | 22  | 20  | 17  | 15  | 14  | 14  | 14  |
| 7.5°   | 21  | 21  | 22  | 23  | 23  | 21  | 16  | 15  | 14  | 14  | 14  |
| 10°    | 21  | 21  | 21  | 22  | 24  | 25  | 23  | 18  | 16  | 15  | 15  |
| 12.5°  | 23  | 23  | 23  | 23  | 23  | 23  | 24  | 23  | 20  | 18  | 17  |
| 15°    | 26  | 26  | 26  | 26  | 25  | 24  | 23  | 22  | 21  | 19  | 19  |
| 17.5°  | 28  | 28  | 28  | 27  | 27  | 26  | 25  | 24  | 22  | 21  | 20  |
| 20°    | 29  | 30  | 29  | 29  | 29  | 28  | 27  | 25  | 24  | 22  | 21  |
| 22.5°  | 32  | 32  | 32  | 32  | 31  | 31  | 29  | 28  | 26  | 25  | 24  |
| 25°    | 35  | 35  | 35  | 34  | 34  | 34  | 32  | 30  | 29  | 27  | 26  |
| 27.5°  | 38  | 38  | 38  | 38  | 37  | 37  | 35  | 33  | 31  | 29  | 29  |
| 30°    | 41  | 41  | 41  | 41  | 40  | 40  | 38  | 36  | 34  | 32  | 31  |
| 32.5°  | 44  | 44  | 43  | 44  | 43  | 43  | 41  | 39  | 37  | 35  | 34  |
| 35°    | 47  | 47  | 48  | 48  | 48  | 47  | 46  | 44  | 43  | 42  | 41  |
| 37.5°  | 60  | 61  | 60  | 59  | 59  | 60  | 61  | 58  | 55  | 51  | 49  |
| 40°    | 65  | 65  | 64  | 64  | 65  | 65  | 64  | 62  | 58  | 54  | 51  |
| 42.5°  | 66  | 66  | 69  | 72  | 74  | 70  | 66  | 63  | 62  | 60  | 59  |
| 45°    | 77  | 78  | 77  | 77  | 78  | 78  | 78  | 73  | 70  | 65  | 63  |
| 47.5°  | 87  | 87  | 88  | 90  | 90  | 92  | 90  | 85  | 83  | 79  | 76  |
| 50°    | 112 | 115 | 115 | 117 | 119 | 122 | 122 | 113 | 113 | 107 | 104 |
| 52.5°  | 161 | 165 | 163 | 158 | 163 | 169 | 170 | 158 | 155 | 143 | 132 |
| 55°    | 215 | 219 | 225 | 230 | 231 | 231 | 222 | 206 | 202 | 191 | 178 |
| 57.5°  | 304 | 305 | 314 | 312 | 314 | 306 | 296 | 277 | 261 | 245 | 231 |
| 60°    | 401 | 401 | 402 | 376 | 377 | 372 | 362 | 346 | 320 | 296 | 277 |
| 62.5°  | 435 | 434 | 446 | 430 | 423 | 406 | 386 | 369 | 347 | 325 | 309 |
| 63°    | 435 | 436 | 449 | 432 | 425 | 407 | 387 | 371 | 346 | 325 | 310 |
| 65°    | 417 | 418 | 433 | 420 | 412 | 394 | 380 | 368 | 341 | 319 | 307 |
| 67.5°  | 369 | 373 | 383 | 373 | 368 | 352 | 340 | 336 | 311 | 287 | 281 |
| 70°    | 290 | 294 | 306 | 308 | 301 | 287 | 271 | 267 | 248 | 229 | 227 |
| 72.5°  | 217 | 220 | 227 | 234 | 230 | 214 | 205 | 204 | 192 | 173 | 169 |
| 75°    | 171 | 171 | 173 | 171 | 165 | 166 | 167 | 168 | 157 | 137 | 132 |
| 77.5°  | 129 | 127 | 127 | 127 | 127 | 130 | 135 | 138 | 127 | 114 | 113 |
| 80°    | 78  | 79  | 81  | 84  | 86  | 89  | 89  | 93  | 90  | 86  | 90  |
| 82.5°  | 54  | 55  | 60  | 64  | 64  | 62  | 59  | 60  | 63  | 61  | 62  |
| 85°    | 62  | 61  | 57  | 57  | 59  | 61  | 60  | 60  | 57  | 53  | 51  |
| 87.5°  | 56  | 56  | 55  | 56  | 55  | 57  | 58  | 59  | 56  | 51  | 50  |
| 90°    | 46  | 46  | 47  | 49  | 49  | 50  | 49  | 50  | 49  | 46  | 46  |
| 92.5°  | 42  | 42  | 43  | 43  | 43  | 43  | 42  | 42  | 41  | 39  | 39  |
| 95°    | 38  | 39  | 39  | 39  | 38  | 37  | 36  | 37  | 36  | 33  | 33  |
| 97.5°  | 31  | 31  | 31  | 31  | 31  | 29  | 28  | 28  | 27  | 26  | 26  |
| 100°   | 27  | 27  | 27  | 27  | 27  | 26  | 25  | 25  | 24  | 23  | 23  |
| 102.5° | 25  | 25  | 26  | 26  | 25  | 24  | 24  | 24  | 23  | 22  | 21  |
| 105°   | 24  | 24  | 24  | 24  | 23  | 23  | 23  | 23  | 22  | 21  | 20  |
| 107.5° | 22  | 23  | 23  | 23  | 22  | 22  | 21  | 21  | 21  | 19  | 19  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 21 | 21 | 21  | 21  | 21  | 21  | 20  | 20  | 19  | 18  | 18  |
| 112.5° | 19 | 19 | 19  | 19  | 19  | 18  | 18  | 18  | 18  | 17  | 16  |
| 115°   | 17 | 17 | 18  | 17  | 17  | 17  | 17  | 17  | 16  | 15  | 15  |
| 117.5° | 17 | 17 | 17  | 18  | 18  | 18  | 17  | 16  | 16  | 16  | 15  |
| 120°   | 18 | 18 | 18  | 19  | 20  | 20  | 19  | 19  | 18  | 16  | 16  |
| 122.5° | 21 | 21 | 21  | 22  | 22  | 21  | 23  | 22  | 20  | 17  | 17  |
| 125°   | 17 | 18 | 17  | 17  | 17  | 18  | 17  | 17  | 17  | 16  | 16  |
| 127.5° | 14 | 14 | 14  | 14  | 14  | 15  | 14  | 14  | 13  | 13  | 13  |
| 130°   | 13 | 13 | 14  | 15  | 15  | 15  | 14  | 13  | 13  | 12  | 12  |
| 132.5° | 13 | 13 | 14  | 16  | 16  | 14  | 13  | 13  | 13  | 13  | 14  |
| 135°   | 13 | 13 | 13  | 14  | 13  | 13  | 12  | 12  | 13  | 13  | 13  |
| 137.5° | 14 | 13 | 13  | 13  | 13  | 13  | 13  | 13  | 13  | 12  | 12  |
| 140°   | 14 | 14 | 13  | 13  | 13  | 14  | 15  | 14  | 12  | 11  | 11  |
| 142.5° | 14 | 13 | 14  | 14  | 14  | 15  | 15  | 14  | 14  | 13  | 13  |
| 145°   | 19 | 18 | 18  | 18  | 18  | 18  | 19  | 18  | 17  | 16  | 15  |
| 147.5° | 16 | 16 | 16  | 16  | 16  | 16  | 16  | 16  | 16  | 15  | 15  |
| 150°   | 12 | 12 | 12  | 12  | 12  | 12  | 12  | 12  | 13  | 12  | 12  |
| 152.5° | 9  | 9  | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   |
| 155°   | 8  | 9  | 8   | 8   | 8   | 8   | 8   | 8   | 8   | 8   | 8   |
| 157.5° | 7  | 7  | 7   | 7   | 7   | 7   | 7   | 6   | 7   | 6   | 7   |
| 160°   | 6  | 6  | 6   | 6   | 6   | 6   | 6   | 6   | 6   | 6   | 6   |
| 162.5° | 5  | 5  | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 6   | 6   |
| 165°   | 4  | 4  | 4   | 4   | 4   | 4   | 5   | 5   | 5   | 6   | 6   |
| 167.5° | 4  | 4  | 4   | 4   | 4   | 4   | 5   | 5   | 6   | 6   | 6   |
| 170°   | 4  | 4  | 4   | 4   | 4   | 5   | 5   | 5   | 5   | 5   | 5   |
| 172.5° | 4  | 4  | 4   | 4   | 5   | 5   | 5   | 5   | 5   | 5   | 5   |
| 175°   | 4  | 4  | 4   | 4   | 4   | 5   | 5   | 5   | 5   | 5   | 6   |
| 177.5° | 4  | 4  | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   |
| 180°   | 4  | 4  | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   |

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**CANDELA DISTRIBUTION (continued):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 0°     | 27  | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   |
| 2.5°   | 20  | 17   | 16   | 18   | 22   | 26   | 25   | 22   | 18   | 18   |
| 5°     | 14  | 13   | 12   | 13   | 17   | 18   | 18   | 17   | 15   | 15   |
| 7.5°   | 14  | 14   | 13   | 14   | 16   | 16   | 15   | 15   | 15   | 15   |
| 10°    | 15  | 15   | 17   | 18   | 15   | 13   | 12   | 13   | 15   | 16   |
| 12.5°  | 16  | 16   | 16   | 15   | 14   | 12   | 12   | 12   | 12   | 11   |
| 15°    | 18  | 17   | 16   | 15   | 13   | 13   | 12   | 11   | 11   | 11   |
| 17.5°  | 19  | 18   | 17   | 15   | 14   | 13   | 12   | 12   | 12   | 11   |
| 20°    | 20  | 19   | 18   | 16   | 15   | 13   | 12   | 12   | 11   | 11   |
| 22.5°  | 23  | 21   | 19   | 17   | 15   | 14   | 13   | 12   | 12   | 12   |
| 25°    | 25  | 23   | 21   | 19   | 16   | 15   | 14   | 13   | 12   | 12   |
| 27.5°  | 27  | 25   | 23   | 20   | 18   | 16   | 14   | 13   | 13   | 13   |
| 30°    | 30  | 27   | 24   | 22   | 19   | 17   | 15   | 14   | 14   | 14   |
| 32.5°  | 32  | 29   | 26   | 23   | 21   | 18   | 16   | 15   | 15   | 15   |
| 35°    | 39  | 36   | 31   | 27   | 24   | 20   | 17   | 16   | 15   | 15   |
| 37.5°  | 47  | 43   | 39   | 35   | 29   | 24   | 19   | 16   | 15   | 15   |
| 40°    | 47  | 43   | 39   | 36   | 33   | 28   | 24   | 18   | 16   | 16   |
| 42.5°  | 56  | 50   | 44   | 38   | 33   | 30   | 27   | 22   | 19   | 18   |
| 45°    | 60  | 56   | 50   | 44   | 39   | 33   | 28   | 24   | 22   | 22   |
| 47.5°  | 73  | 65   | 58   | 51   | 45   | 39   | 32   | 28   | 25   | 24   |
| 50°    | 100 | 92   | 81   | 70   | 59   | 50   | 40   | 35   | 31   | 31   |
| 52.5°  | 128 | 118  | 105  | 96   | 85   | 75   | 59   | 49   | 44   | 43   |
| 55°    | 173 | 162  | 138  | 125  | 112  | 102  | 88   | 79   | 72   | 72   |
| 57.5°  | 224 | 217  | 187  | 165  | 141  | 125  | 116  | 115  | 115  | 113  |
| 60°    | 269 | 250  | 221  | 198  | 174  | 156  | 137  | 139  | 137  | 135  |
| 62.5°  | 299 | 271  | 234  | 206  | 183  | 168  | 150  | 145  | 136  | 133  |
| 63°    | 299 | 272  | 235  | 207  | 183  | 169  | 150  | 143  | 135  | 130  |
| 65°    | 296 | 268  | 231  | 200  | 177  | 161  | 142  | 128  | 121  | 114  |
| 67.5°  | 271 | 243  | 209  | 183  | 160  | 143  | 121  | 106  | 97   | 88   |
| 70°    | 218 | 194  | 167  | 147  | 128  | 116  | 98   | 85   | 76   | 69   |
| 72.5°  | 161 | 141  | 125  | 113  | 100  | 90   | 75   | 66   | 59   | 55   |
| 75°    | 125 | 111  | 100  | 93   | 82   | 66   | 53   | 44   | 39   | 38   |
| 77.5°  | 108 | 100  | 87   | 77   | 61   | 45   | 35   | 27   | 24   | 24   |
| 80°    | 88  | 81   | 61   | 55   | 40   | 30   | 24   | 21   | 19   | 19   |
| 82.5°  | 58  | 52   | 41   | 36   | 32   | 28   | 24   | 20   | 17   | 18   |
| 85°    | 48  | 44   | 41   | 36   | 32   | 27   | 22   | 19   | 17   | 17   |
| 87.5°  | 48  | 46   | 40   | 35   | 29   | 24   | 20   | 17   | 16   | 16   |
| 90°    | 45  | 41   | 35   | 30   | 25   | 21   | 18   | 16   | 14   | 14   |
| 92.5°  | 37  | 34   | 30   | 26   | 23   | 20   | 17   | 15   | 14   | 14   |
| 95°    | 32  | 29   | 25   | 23   | 20   | 17   | 15   | 13   | 12   | 12   |
| 97.5°  | 25  | 23   | 20   | 19   | 16   | 14   | 13   | 12   | 11   | 11   |
| 100°   | 22  | 21   | 18   | 17   | 15   | 13   | 12   | 11   | 10   | 11   |
| 102.5° | 21  | 19   | 18   | 16   | 14   | 13   | 11   | 11   | 10   | 10   |
| 105°   | 19  | 18   | 17   | 15   | 13   | 12   | 10   | 10   | 9    | 9    |
| 107.5° | 18  | 17   | 15   | 14   | 13   | 11   | 10   | 9    | 8    | 8    |



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**CANDELA DISTRIBUTION (continued):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 110°   | 17  | 16   | 15   | 13   | 12   | 11   | 9    | 9    | 8    | 8    |
| 112.5° | 16  | 15   | 13   | 12   | 11   | 10   | 9    | 8    | 8    | 7    |
| 115°   | 15  | 14   | 13   | 11   | 10   | 9    | 8    | 8    | 7    | 7    |
| 117.5° | 15  | 13   | 12   | 11   | 10   | 9    | 9    | 8    | 7    | 7    |
| 120°   | 15  | 13   | 13   | 12   | 12   | 10   | 9    | 8    | 7    | 7    |
| 122.5° | 16  | 16   | 15   | 13   | 12   | 10   | 8    | 7    | 7    | 7    |
| 125°   | 15  | 15   | 13   | 12   | 10   | 9    | 8    | 7    | 7    | 7    |
| 127.5° | 12  | 12   | 10   | 10   | 9    | 8    | 8    | 7    | 7    | 7    |
| 130°   | 12  | 11   | 10   | 9    | 9    | 8    | 7    | 7    | 6    | 6    |
| 132.5° | 13  | 12   | 10   | 9    | 8    | 8    | 7    | 6    | 6    | 6    |
| 135°   | 12  | 10   | 9    | 9    | 8    | 8    | 7    | 6    | 6    | 6    |
| 137.5° | 10  | 9    | 9    | 8    | 8    | 8    | 7    | 6    | 5    | 5    |
| 140°   | 10  | 10   | 9    | 9    | 8    | 7    | 6    | 6    | 5    | 5    |
| 142.5° | 12  | 11   | 10   | 9    | 8    | 7    | 7    | 6    | 5    | 5    |
| 145°   | 14  | 13   | 12   | 11   | 10   | 8    | 7    | 5    | 4    | 4    |
| 147.5° | 15  | 13   | 12   | 10   | 9    | 7    | 6    | 5    | 4    | 4    |
| 150°   | 12  | 11   | 10   | 9    | 7    | 6    | 5    | 4    | 4    | 4    |
| 152.5° | 9   | 8    | 7    | 7    | 6    | 5    | 4    | 4    | 4    | 4    |
| 155°   | 8   | 7    | 7    | 6    | 5    | 5    | 4    | 4    | 4    | 4    |
| 157.5° | 6   | 6    | 5    | 5    | 5    | 4    | 4    | 4    | 4    | 4    |
| 160°   | 6   | 5    | 5    | 5    | 5    | 4    | 4    | 4    | 4    | 4    |
| 162.5° | 6   | 5    | 5    | 5    | 5    | 5    | 5    | 4    | 4    | 4    |
| 165°   | 6   | 5    | 5    | 5    | 5    | 5    | 5    | 4    | 4    | 4    |
| 167.5° | 6   | 5    | 5    | 5    | 5    | 6    | 5    | 5    | 4    | 4    |
| 170°   | 5   | 5    | 6    | 6    | 5    | 5    | 5    | 5    | 5    | 5    |
| 172.5° | 5   | 6    | 6    | 6    | 5    | 5    | 5    | 5    | 6    | 6    |
| 175°   | 6   | 6    | 6    | 6    | 5    | 5    | 5    | 6    | 6    | 6    |
| 177.5° | 4   | 4    | 4    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |
| 180°   | 4   | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    |

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-6

Test Date: 03/28/2025

Luminaire Tested: FFX-CLB-AMB-U-FR-T5

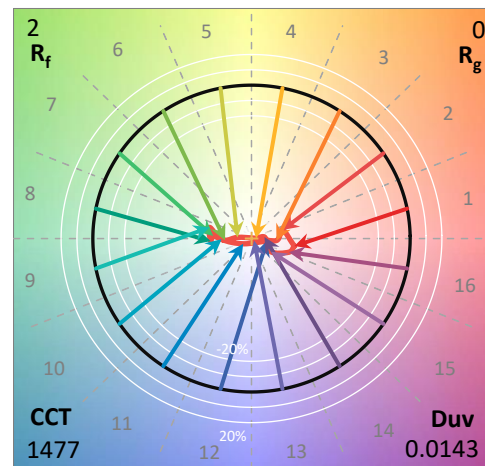
Data in this report applies to families of products including FFX-CLB-AMB-U-FR-T5

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2501-332-6  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 03/31/2025  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Streetworks  
 Catalog Number: **FFX-CLB-AMB-U-FR-T5**  
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR AMBER T5

### Spectral Parameters

|                           |          |           |        |      |        |
|---------------------------|----------|-----------|--------|------|--------|
| CCT (K):                  | 1477     | CRI (Ra): | -16.4  |      |        |
| CIE u':                   | 0.3612   | R1:       | -26.9  | R9:  | -362.0 |
| CIE v':                   | 0.5457   | R2:       | 55.7   | R10: | 34.1   |
| Duv:                      | 0.0143   | R3:       | 19.5   | R11: | -85.9  |
| CIE x:                    | 0.5980   | R4:       | -61.2  | R12: | -0.3   |
| CIE y:                    | 0.4014   | R5:       | -34.3  | R13: | -8.9   |
| CIE z:                    | 0.0006   | R6:       | 47.8   | R14: | 48.3   |
| Peak Wavelength (nm):     | 599      | R7:       | -4.8   | R15: | -60.0  |
| Dominant Wavelength (nm): | 594      | R8:       | -127.3 |      |        |
| Purity:                   | 99.99006 |           |        |      |        |
| Rf:                       | 1.7      |           |        |      |        |
| Rg:                       | 0.1      |           |        |      |        |



### Test Conditions

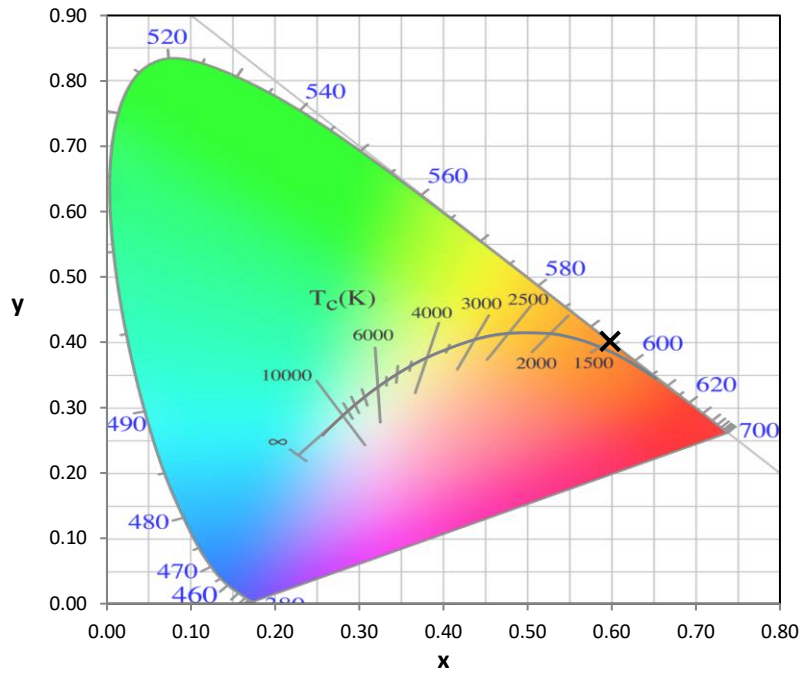
Stabilization Time: 152M  
 Operation Time: 3H 32M  
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2501-332-6

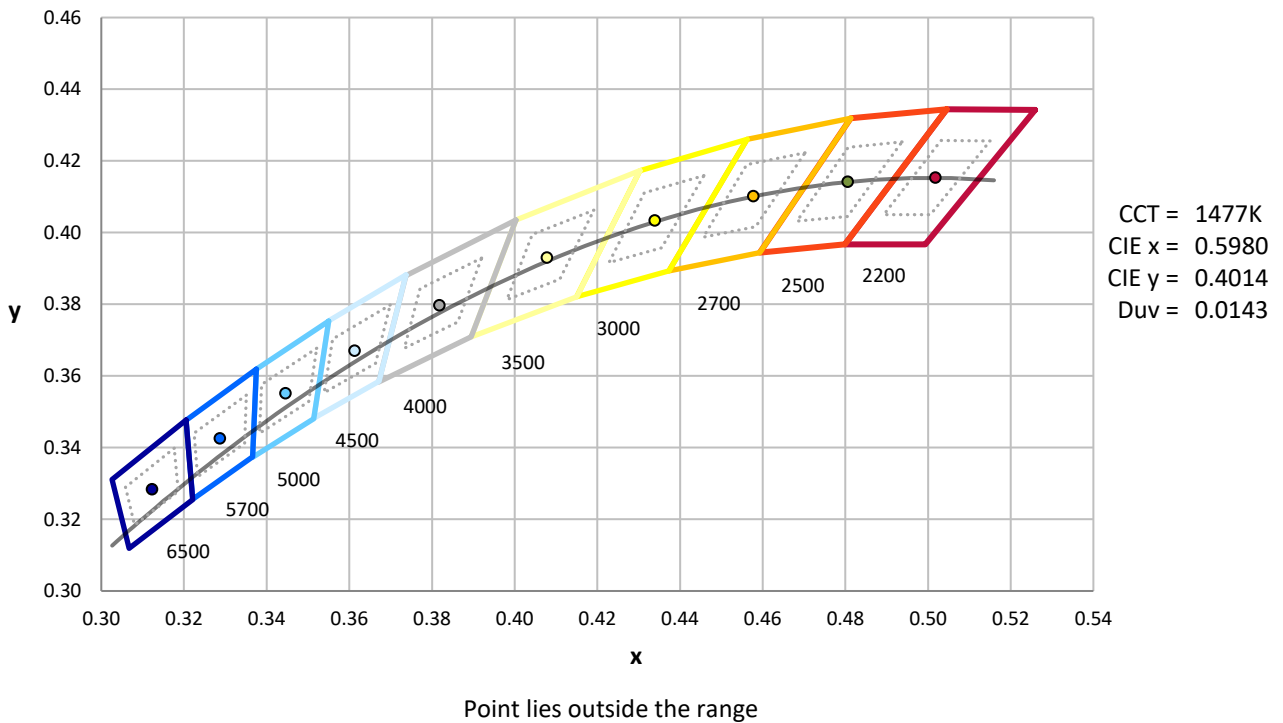
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2501-332-6

**CIE 1931 Chromaticity Diagram**

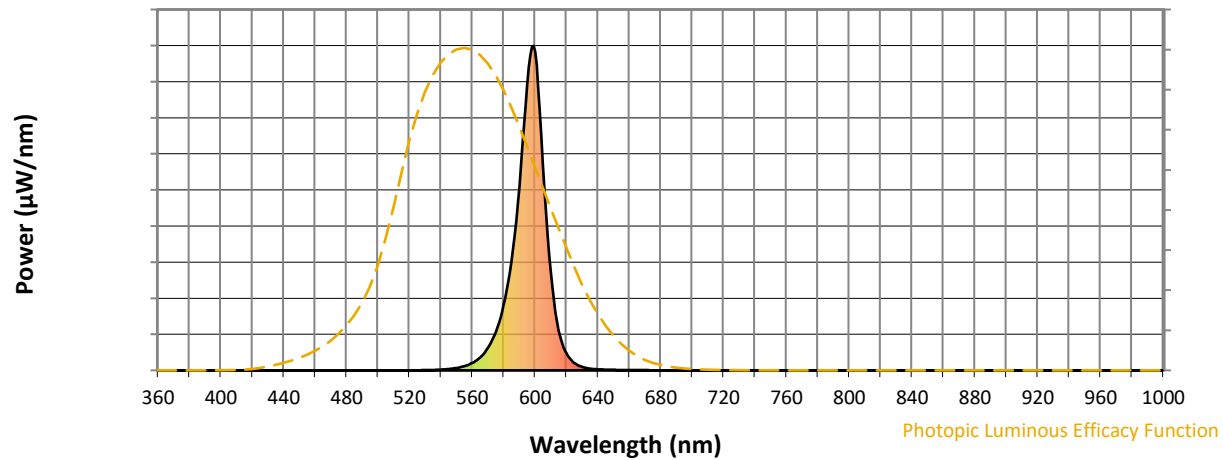


**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



REPORT NUMBER: SP1-2501-332-6

### Photopic Flux vs. Wavelength

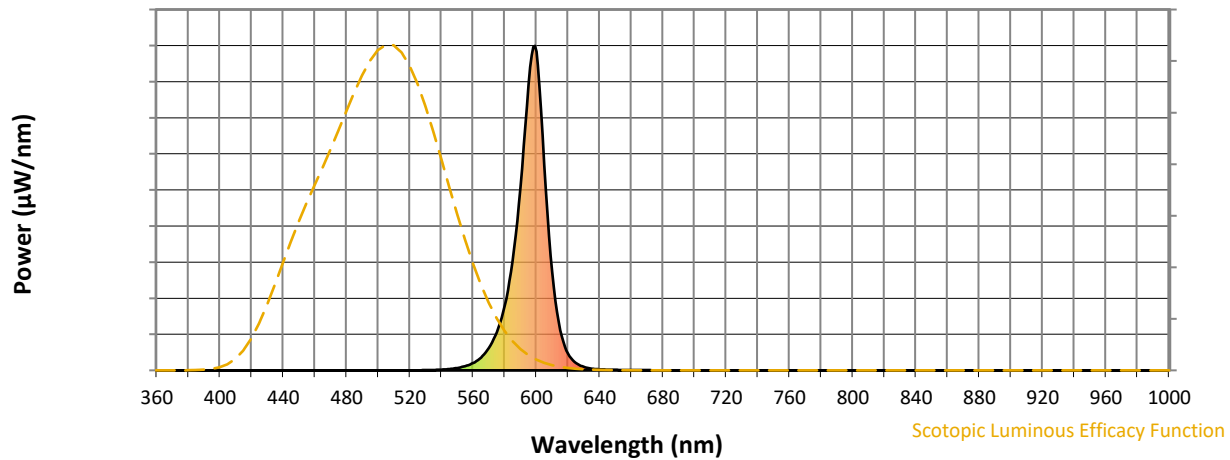


### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 0                                    | NR                             | 490               | 0                                    | NR                             | 620               | 52                                   | NR                             | 750               | 0                                    | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 0                                    | NR                             | 625               | 23                                   | NR                             | 755               | 0                                    | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 0                                    | NR                             | 630               | 11                                   | NR                             | 760               | 0                                    | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 0                                    | NR                             | 635               | 5                                    | NR                             | 765               | 0                                    | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 0                                    | NR                             | 640               | 3                                    | NR                             | 770               | 0                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 0                                    | NR                             | 645               | 2                                    | NR                             | 775               | 0                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 0                                    | NR                             | 520               | 0                                    | NR                             | 650               | 2                                    | NR                             | 780               | 0                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 0                                    | NR                             | 525               | 0                                    | NR                             | 655               | 1                                    | NR                             | 785               | 0                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 0                                    | NR                             | 530               | 1                                    | NR                             | 660               | 1                                    | NR                             | 790               | 0                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 0                                    | NR                             | 535               | 1                                    | NR                             | 665               | 1                                    | NR                             | 795               | 0                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 0                                    | NR                             | 540               | 2                                    | NR                             | 670               | 1                                    | NR                             | 800               | 0                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 0                                    | NR                             | 545               | 4                                    | NR                             | 675               | 0                                    | NR                             | 805               | 0                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 0                                    | NR                             | 550               | 7                                    | NR                             | 680               | 0                                    | NR                             | 810               | 0                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 0                                    | NR                             | 555               | 13                                   | NR                             | 685               | 0                                    | NR                             | 815               | 0                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 0                                    | NR                             | 560               | 23                                   | NR                             | 690               | 0                                    | NR                             | 820               | 0                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 0                                    | NR                             | 565               | 40                                   | NR                             | 695               | 0                                    | NR                             | 825               | 0                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 0                                    | NR                             | 570               | 69                                   | NR                             | 700               | 0                                    | NR                             | 830               | 0                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 0                                    | NR                             | 575               | 118                                  | NR                             | 705               | 0                                    | NR                             | 835               | 0                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 0                                    | NR                             | 580               | 201                                  | NR                             | 710               | 0                                    | NR                             | 840               | 0                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 0                                    | NR                             | 585               | 337                                  | NR                             | 715               | 0                                    | NR                             | 845               | 0                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 0                                    | NR                             | 590               | 566                                  | NR                             | 720               | 0                                    | NR                             | 850               | 0                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 0                                    | NR                             | 595               | 880                                  | NR                             | 725               | 0                                    | NR                             | 855               | 0                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 0                                    | NR                             | 600               | 982                                  | NR                             | 730               | 0                                    | NR                             | 860               | 0                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 0                                    | NR                             | 605               | 633                                  | NR                             | 735               | 0                                    | NR                             | 865               | 0                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 0                                    | NR                             | 610               | 302                                  | NR                             | 740               | 0                                    | NR                             | 870               | 0                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 0                                    | NR                             | 615               | 123                                  | NR                             | 745               | 0                                    | NR                             | 875               | 0                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2501-332-6

### Scotopic Flux vs. Wavelength



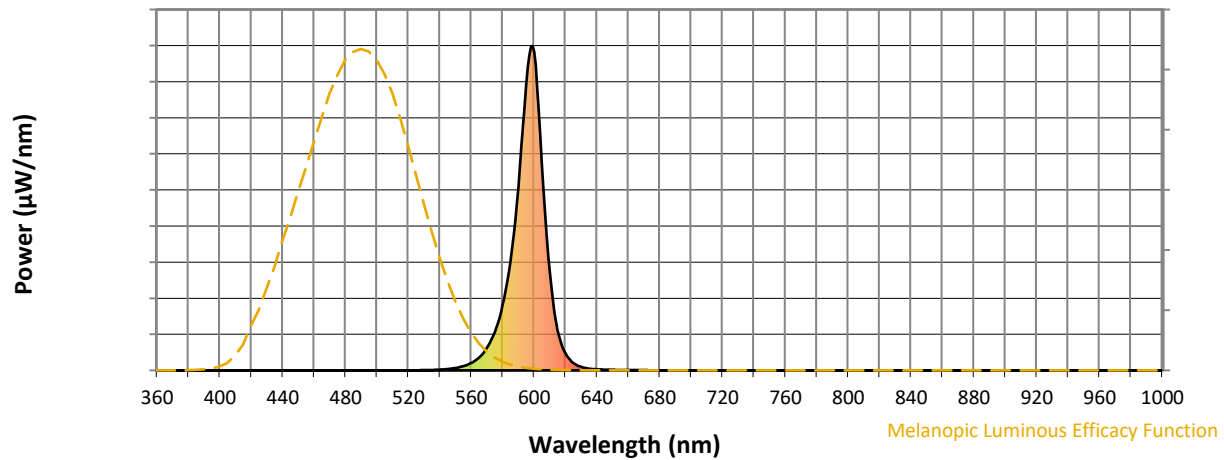
Scotopic Lumens: NR

S/P: 0.21

| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 0                                    | NR                             | 490               | 0                                    | NR                             | 620               | 52                                   | NR                             | 750               | 0                                    | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 0                                    | NR                             | 625               | 23                                   | NR                             | 755               | 0                                    | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 0                                    | NR                             | 630               | 11                                   | NR                             | 760               | 0                                    | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 0                                    | NR                             | 635               | 5                                    | NR                             | 765               | 0                                    | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 0                                    | NR                             | 640               | 3                                    | NR                             | 770               | 0                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 0                                    | NR                             | 645               | 2                                    | NR                             | 775               | 0                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 0                                    | NR                             | 520               | 0                                    | NR                             | 650               | 2                                    | NR                             | 780               | 0                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 0                                    | NR                             | 525               | 0                                    | NR                             | 655               | 1                                    | NR                             | 785               | 0                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 0                                    | NR                             | 530               | 1                                    | NR                             | 660               | 1                                    | NR                             | 790               | 0                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 0                                    | NR                             | 535               | 1                                    | NR                             | 665               | 1                                    | NR                             | 795               | 0                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 0                                    | NR                             | 540               | 2                                    | NR                             | 670               | 1                                    | NR                             | 800               | 0                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 0                                    | NR                             | 545               | 4                                    | NR                             | 675               | 0                                    | NR                             | 805               | 0                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 0                                    | NR                             | 550               | 7                                    | NR                             | 680               | 0                                    | NR                             | 810               | 0                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 0                                    | NR                             | 555               | 13                                   | NR                             | 685               | 0                                    | NR                             | 815               | 0                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 0                                    | NR                             | 560               | 23                                   | NR                             | 690               | 0                                    | NR                             | 820               | 0                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 0                                    | NR                             | 565               | 40                                   | NR                             | 695               | 0                                    | NR                             | 825               | 0                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 0                                    | NR                             | 570               | 69                                   | NR                             | 700               | 0                                    | NR                             | 830               | 0                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 0                                    | NR                             | 575               | 118                                  | NR                             | 705               | 0                                    | NR                             | 835               | 0                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 0                                    | NR                             | 580               | 201                                  | NR                             | 710               | 0                                    | NR                             | 840               | 0                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 0                                    | NR                             | 585               | 337                                  | NR                             | 715               | 0                                    | NR                             | 845               | 0                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 0                                    | NR                             | 590               | 566                                  | NR                             | 720               | 0                                    | NR                             | 850               | 0                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 0                                    | NR                             | 595               | 880                                  | NR                             | 725               | 0                                    | NR                             | 855               | 0                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 0                                    | NR                             | 600               | 982                                  | NR                             | 730               | 0                                    | NR                             | 860               | 0                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 0                                    | NR                             | 605               | 633                                  | NR                             | 735               | 0                                    | NR                             | 865               | 0                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 0                                    | NR                             | 610               | 302                                  | NR                             | 740               | 0                                    | NR                             | 870               | 0                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 0                                    | NR                             | 615               | 123                                  | NR                             | 745               | 0                                    | NR                             | 875               | 0                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2501-332-6

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 0.11

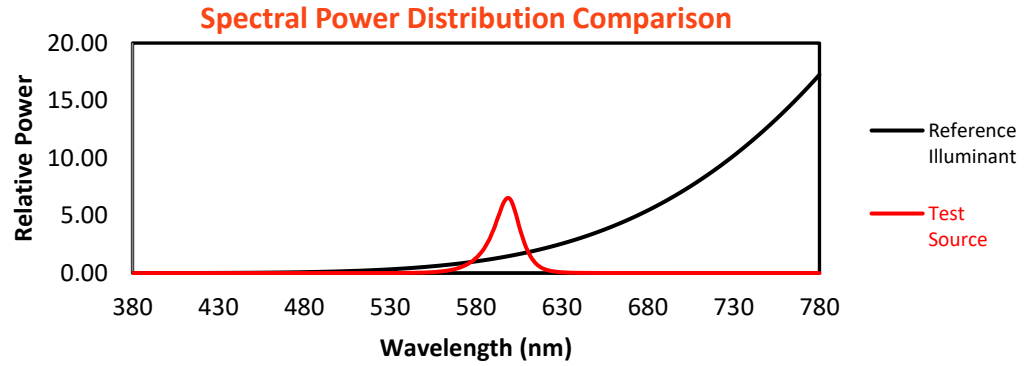
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|
| 360               | 0                                      | NR                             | 490               | 0                                      | NR                             | 620               | 52                                     | NR                             | 750               | 0                                      | NR                             | 880               | 0                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 0                                      | NR                             | 625               | 23                                     | NR                             | 755               | 0                                      | NR                             | 885               | 0                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 0                                      | NR                             | 630               | 11                                     | NR                             | 760               | 0                                      | NR                             | 890               | 0                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 0                                      | NR                             | 635               | 5                                      | NR                             | 765               | 0                                      | NR                             | 895               | 0                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 0                                      | NR                             | 640               | 3                                      | NR                             | 770               | 0                                      | NR                             | 900               | 0                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 0                                      | NR                             | 645               | 2                                      | NR                             | 775               | 0                                      | NR                             | 905               | 0                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 0                                      | NR                             | 650               | 2                                      | NR                             | 780               | 0                                      | NR                             | 910               | 0                                      | NR                             |
| 395               | 0                                      | NR                             | 525               | 0                                      | NR                             | 655               | 1                                      | NR                             | 785               | 0                                      | NR                             | 915               | 0                                      | NR                             |
| 400               | 0                                      | NR                             | 530               | 1                                      | NR                             | 660               | 1                                      | NR                             | 790               | 0                                      | NR                             | 920               | 0                                      | NR                             |
| 405               | 0                                      | NR                             | 535               | 1                                      | NR                             | 665               | 1                                      | NR                             | 795               | 0                                      | NR                             | 925               | 0                                      | NR                             |
| 410               | 0                                      | NR                             | 540               | 2                                      | NR                             | 670               | 1                                      | NR                             | 800               | 0                                      | NR                             | 930               | 0                                      | NR                             |
| 415               | 0                                      | NR                             | 545               | 4                                      | NR                             | 675               | 0                                      | NR                             | 805               | 0                                      | NR                             | 935               | 0                                      | NR                             |
| 420               | 0                                      | NR                             | 550               | 7                                      | NR                             | 680               | 0                                      | NR                             | 810               | 0                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 0                                      | NR                             | 555               | 13                                     | NR                             | 685               | 0                                      | NR                             | 815               | 0                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 0                                      | NR                             | 560               | 23                                     | NR                             | 690               | 0                                      | NR                             | 820               | 0                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 0                                      | NR                             | 565               | 40                                     | NR                             | 695               | 0                                      | NR                             | 825               | 0                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 0                                      | NR                             | 570               | 69                                     | NR                             | 700               | 0                                      | NR                             | 830               | 0                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 0                                      | NR                             | 575               | 118                                    | NR                             | 705               | 0                                      | NR                             | 835               | 0                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 0                                      | NR                             | 580               | 201                                    | NR                             | 710               | 0                                      | NR                             | 840               | 0                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 0                                      | NR                             | 585               | 337                                    | NR                             | 715               | 0                                      | NR                             | 845               | 0                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 0                                      | NR                             | 590               | 566                                    | NR                             | 720               | 0                                      | NR                             | 850               | 0                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 0                                      | NR                             | 595               | 880                                    | NR                             | 725               | 0                                      | NR                             | 855               | 0                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 0                                      | NR                             | 600               | 982                                    | NR                             | 730               | 0                                      | NR                             | 860               | 0                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 0                                      | NR                             | 605               | 633                                    | NR                             | 735               | 0                                      | NR                             | 865               | 0                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 0                                      | NR                             | 610               | 302                                    | NR                             | 740               | 0                                      | NR                             | 870               | 0                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 0                                      | NR                             | 615               | 123                                    | NR                             | 745               | 0                                      | NR                             | 875               | 0                                      | NR                             |                   |                                        |                                |

REPORT NUMBER: SP1-2501-332-6

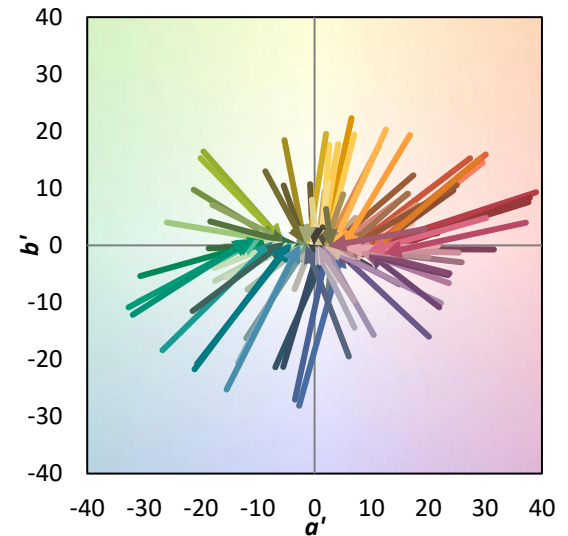
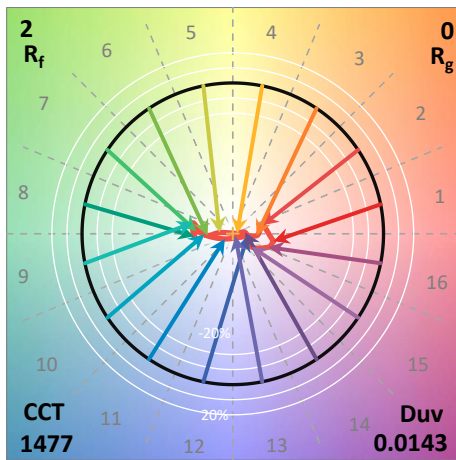
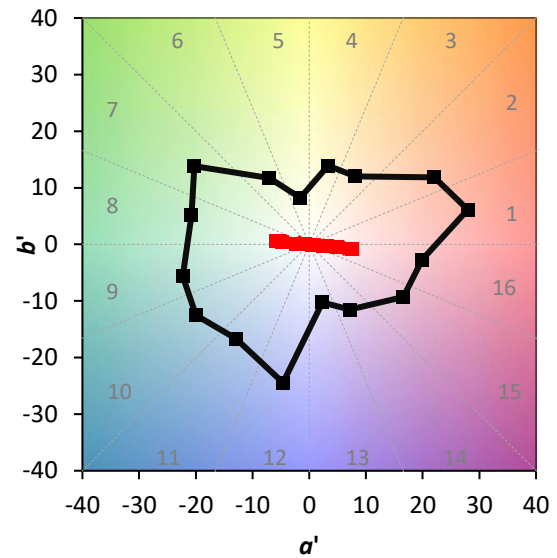
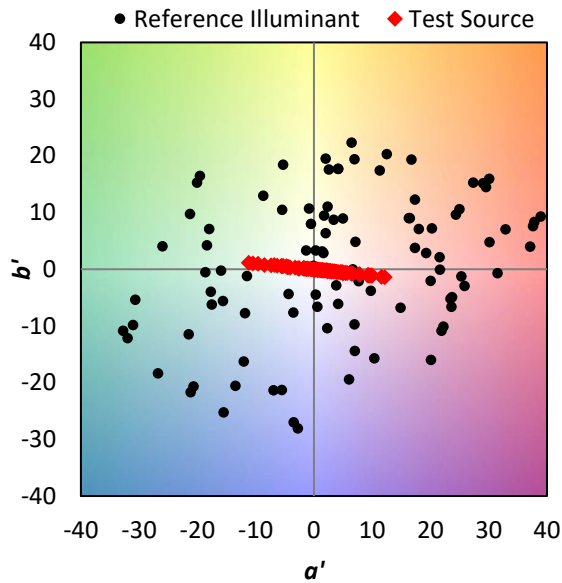
TM-30-18

### Summary

$R_f = 1.7$   
 $R_g = 0.1$   
 $CIE R_a = -16.4$   
 $R_g = -362.0$

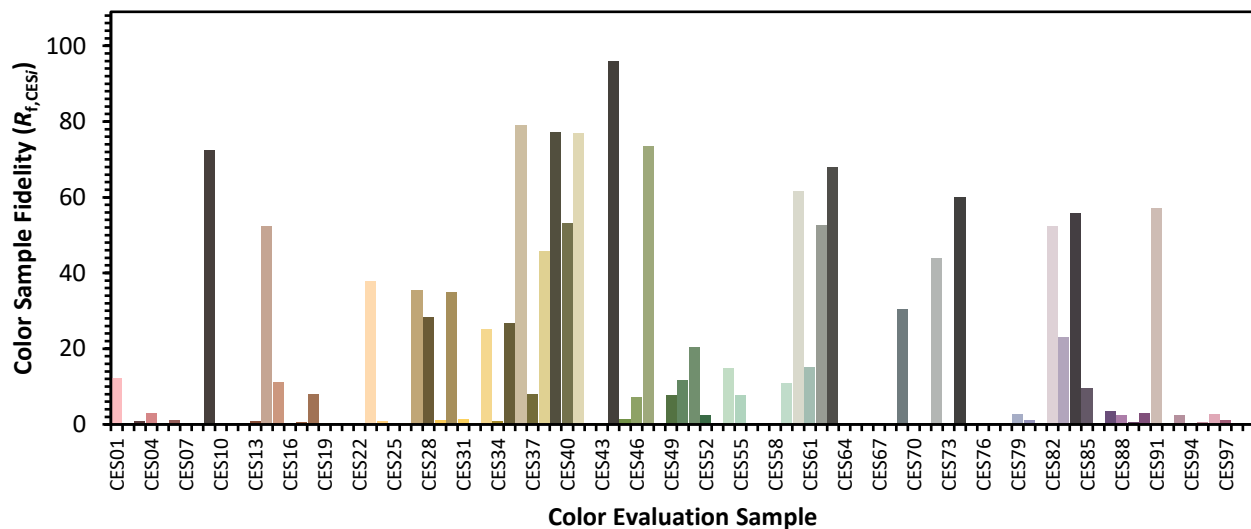


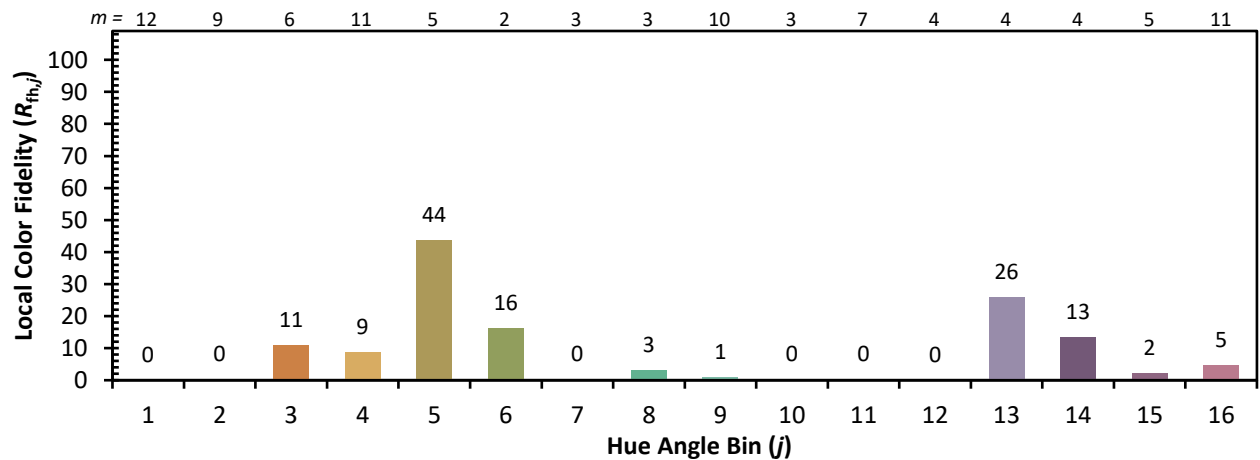
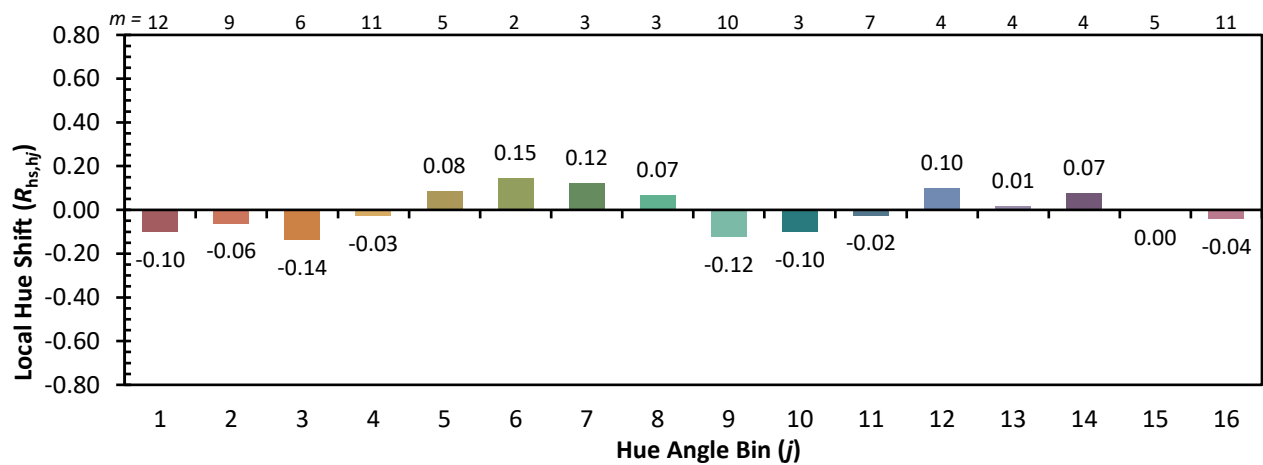
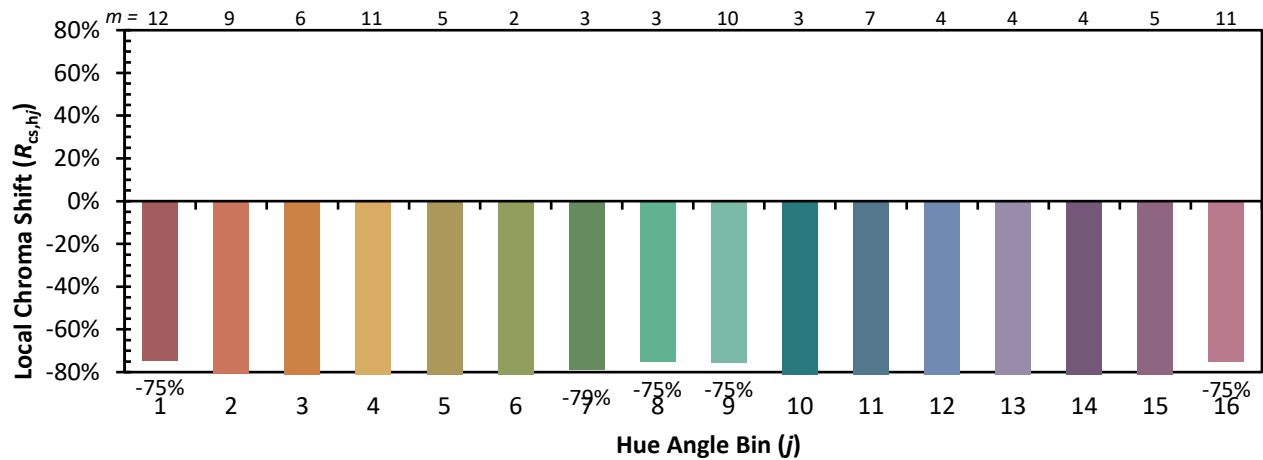
### Color Vector Graphics



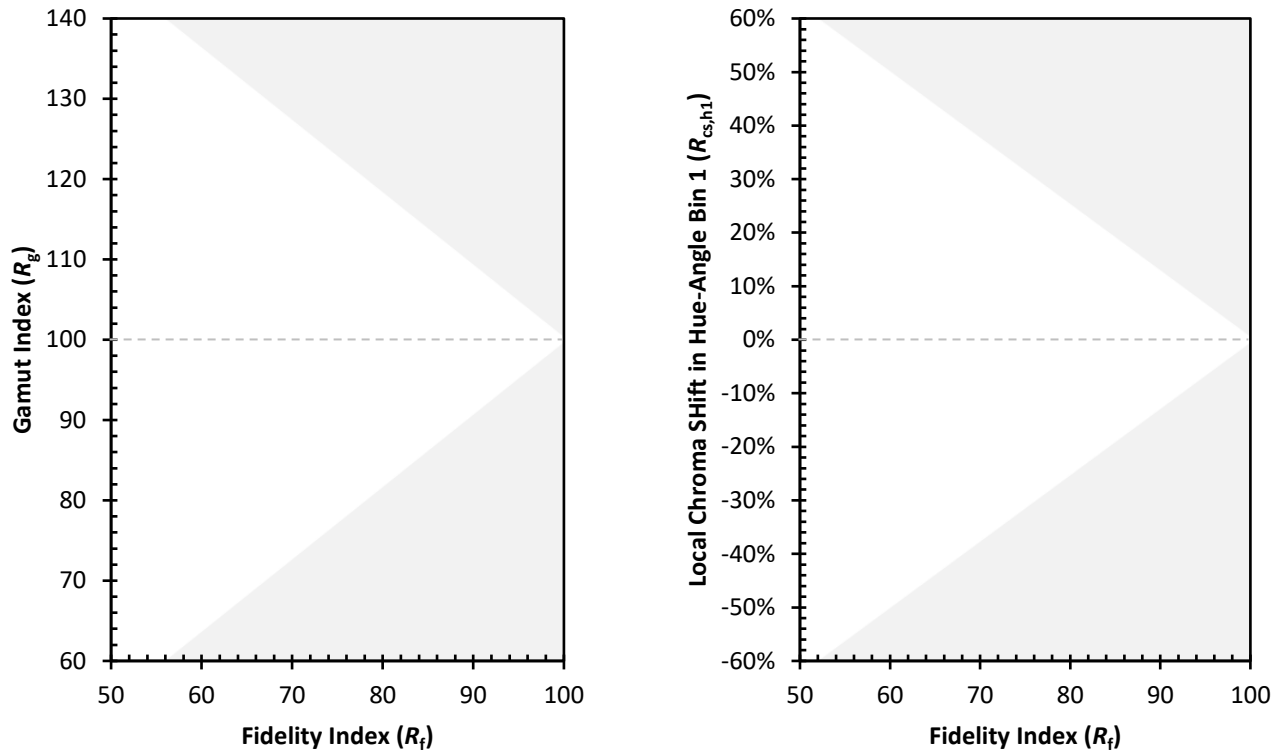
**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 90 | CES26 = 0  | CES51 = 20 | CES76 = 0  |
| CES02 = 70 | CES27 = 35 | CES52 = 3  | CES77 = 0  |
| CES03 = 31 | CES28 = 28 | CES53 = 0  | CES78 = 0  |
| CES04 = 77 | CES29 = 1  | CES54 = 15 | CES79 = 3  |
| CES05 = 52 | CES30 = 35 | CES55 = 8  | CES80 = 1  |
| CES06 = 56 | CES31 = 1  | CES56 = 0  | CES81 = 0  |
| CES07 = 42 | CES32 = 0  | CES57 = 0  | CES82 = 52 |
| CES08 = 39 | CES33 = 25 | CES58 = 0  | CES83 = 23 |
| CES09 = 30 | CES34 = 1  | CES59 = 11 | CES84 = 56 |
| CES10 = 88 | CES35 = 27 | CES60 = 62 | CES85 = 10 |
| CES11 = 70 | CES36 = 79 | CES61 = 15 | CES86 = 0  |
| CES12 = 76 | CES37 = 8  | CES62 = 53 | CES87 = 4  |
| CES13 = 48 | CES38 = 46 | CES63 = 68 | CES88 = 2  |
| CES14 = 77 | CES39 = 77 | CES64 = 0  | CES89 = 0  |
| CES15 = 75 | CES40 = 53 | CES65 = 0  | CES90 = 3  |
| CES16 = 50 | CES41 = 77 | CES66 = 0  | CES91 = 57 |
| CES17 = 56 | CES42 = 0  | CES67 = 0  | CES92 = 0  |
| CES18 = 60 | CES43 = 0  | CES68 = 0  | CES93 = 3  |
| CES19 = 80 | CES44 = 96 | CES69 = 30 | CES94 = 0  |
| CES20 = 72 | CES45 = 2  | CES70 = 0  | CES95 = 0  |
| CES21 = 94 | CES46 = 7  | CES71 = 0  | CES96 = 3  |
| CES22 = 87 | CES47 = 73 | CES72 = 44 | CES97 = 1  |
| CES23 = 94 | CES48 = 0  | CES73 = 0  | CES98 = 0  |
| CES24 = 95 | CES49 = 8  | CES74 = 60 | CES99 = 0  |
| CES25 = 79 | CES50 = 12 | CES75 = 0  |            |



**Color Rendition by Hue-Angle Bin**


**Measure Comparisons**



(END OF REPORT)