Signify Classified - Internal

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

Scaled data based on original data using

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

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P1596640

Luminaire Tested: HLB3SLSFS5-MED-3500K

Issue Date: 10/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | P1596640 |
| | TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ( A2600511B001) |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Issue Date: | 10/7/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | HALO |
| | |
| Catalog Number: | HLB3SLSFS5-MED-3500K |
| Description: | HLB3 3" SQUARE SLIM LOW GLARE CANLESS LED DOWNLIGHT |
| Light Source: | 3500K CCT, 90 CRI LEDS |
| Ballast/Driver: | - |

**Summary**

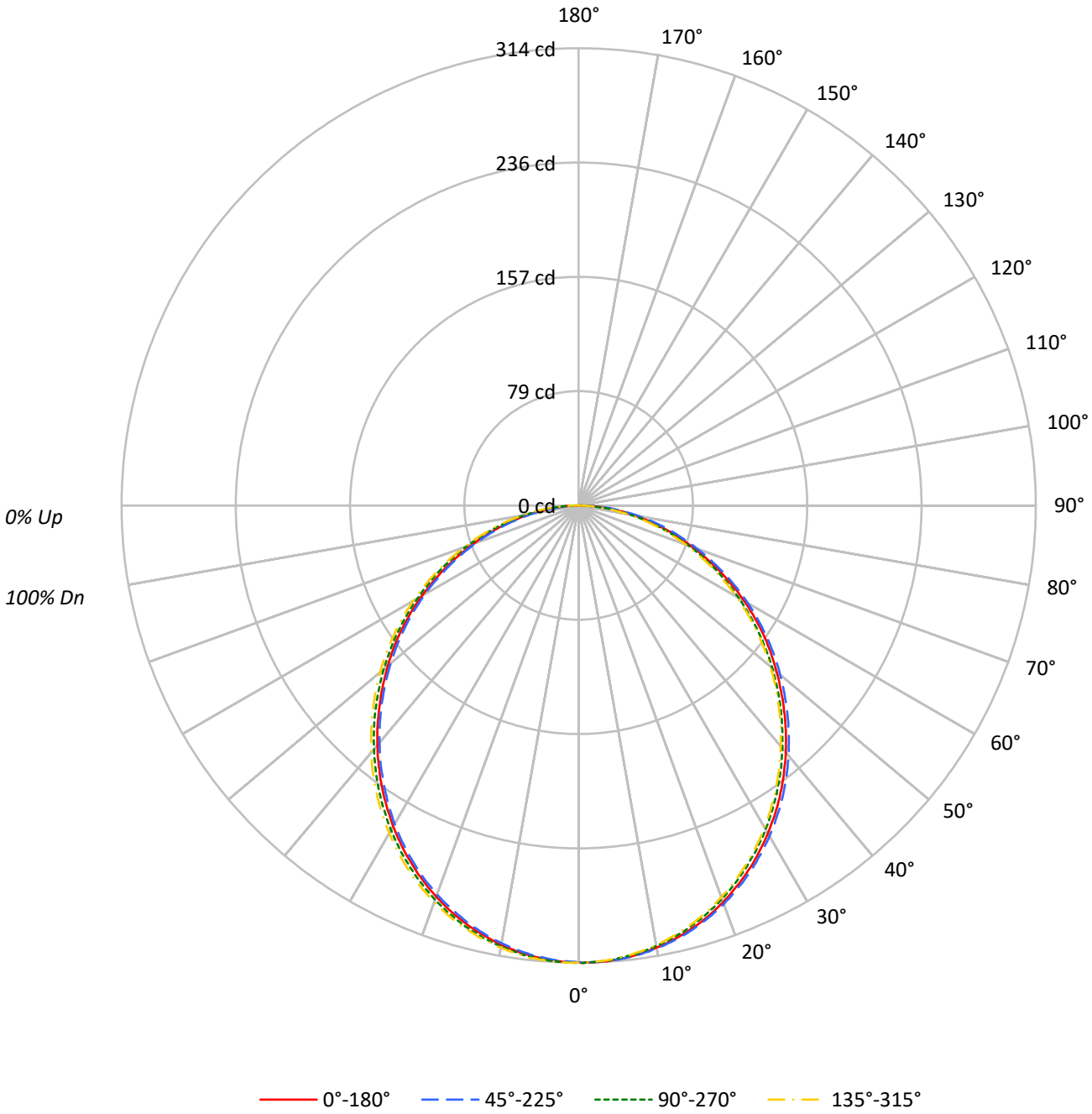
| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 860.1 lumens |
| Efficiency: | N/A |
| Efficacy: | 103.6 lumens/watt |
| Spacing Criteria (0/90/45): | 1.22 / 1.22 / 1.34 |
| Luminous Opening: | Rectangular (W 0.14' x L: 0.14' x H: 0') |
| CIE Type: | Direct |
| | |
| Input Watts (W): | 8.3 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | NR |
| Total Harmonic Distortion (THDi): | NR |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 24 FT |

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Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

## Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
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TEST NUMBER: P1596640
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## COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| RF | 20 | | | | 20 | | | | 20 | | | 20 | | | 20 | | | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 83 |
| 2 | 99 | 90 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 69 |
| 3 | 90 | 79 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 67 | 62 | 69 | 65 | 61 | 59 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 67 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 46 | 40 | 51 | 45 | 40 | 38 |
| 7 | 65 | 51 | 43 | 37 | 63 | 51 | 42 | 36 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 34 |
| 8 | 61 | 47 | 38 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 30 |
| 9 | 57 | 43 | 35 | 29 | 55 | 43 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 31 | 26 | 24 |

## AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|---|---|---|---|---|
| 0° | 174458 | 174458 | 174458 | 174458 |
| 5° | 174567 | 174176 | 173897 | 174343 |
| 10° | 173989 | 173368 | 172917 | 173594 |
| 15° | 172960 | 171982 | 171291 | 172327 |
| 20° | 171519 | 170159 | 169153 | 170513 |
| 25° | 169374 | 167657 | 166431 | 168148 |
| 30° | 166856 | 164803 | 163391 | 165380 |
| 35° | 163784 | 161478 | 159849 | 162224 |
| 40° | 160629 | 157872 | 156058 | 158597 |
| 45° | 156883 | 154053 | 151931 | 154996 |
| 50° | 153472 | 150014 | 147939 | 151051 |
| 55° | 150287 | 145732 | 143698 | 146895 |
| 60° | 145947 | 140945 | 138388 | 142279 |
| 65° | 140845 | 136111 | 132034 | 137689 |
| 70° | 134873 | 130161 | 124311 | 132273 |
| 75° | 129271 | 123043 | 116601 | 126264 |
| 80° | 123223 | 113621 | 106259 | 118422 |
| 85° | 116058 | 95652 | 86725 | 105855 |

## MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 89.5°
Luminance: 254752 cd/sqm

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**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 29.7 | 3.4 |
| 10°-20° | 84.4 | 9.8 |
| 20°-30° | 126.1 | 14.7 |
| 30°-40° | 149.3 | 17.4 |
| 40°-50° | 151.9 | 17.7 |
| 50°-60° | 135.4 | 15.7 |
| 60°-70° | 103.1 | 12.0 |
| 70°-80° | 61.3 | 7.1 |
| 80°-90° | 18.0 | 2.1 |
| 90°-100° | 0.2 | 0.0 |
| 100°-110° | 0.1 | 0.0 |
| 110°-120° | 0.1 | 0.0 |
| 120°-130° | 0.1 | 0.0 |
| 130°-140° | 0.1 | 0.0 |
| 140°-150° | 0.1 | 0.0 |
| 150°-160° | 0.1 | 0.0 |
| 160°-170° | 0.1 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 240.1 | 27.9 |
| 0°-40° | 389.4 | 45.3 |
| 0°-60° | 676.7 | 78.7 |
| 0°-90° | 859.2 | 99.9 |
| 90°-120° | 0.4 | 0.0 |
| 90°-150° | 0.7 | 0.1 |
| 90°-180° | 1.0 | 0.1 |
| 0°-180° | 860.1 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | 90° | 180° | 270° | 360° | Flux |
|---|---|---|---|---|---|---|
| 0° | 314 | 314 | 314 | 314 | 314 | |
| 5° | 313 | 312 | 312 | 312 | 313 | 30 |
| 15° | 301 | 299 | 298 | 300 | 301 | 85 |
| 25° | 276 | 273 | 271 | 274 | 276 | 127 |
| 35° | 241 | 238 | 236 | 239 | 241 | 151 |
| 45° | 200 | 196 | 193 | 197 | 200 | 154 |
| 55° | 155 | 150 | 148 | 152 | 155 | 138 |
| 65° | 107 | 104 | 100 | 105 | 107 | 106 |
| 75° | 60 | 57 | 54 | 59 | 60 | 64 |
| 85° | 18 | 15 | 14 | 17 | 18 | 19 |
| 90° | 2 | 0 | 0 | 1 | 2 | 1 |
| 95° | 0 | 0 | 0 | 0 | 0 | 0 |
| 105° | 0 | 0 | 0 | 0 | 0 | 0 |
| 115° | 0 | 0 | 0 | 0 | 0 | 0 |
| 125° | 0 | 0 | 0 | 0 | 0 | 0 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |

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TEST NUMBER: P1596640
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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 313.9 | 313.9 | 313.9 | 313.9 | *313.9* | 313.9 | 313.9 | 313.9 | 313.9 | 313.9 | 313.9 |
| 0.5° | *314.2* | *314.0* | *313.5* | *313.9* | *314.3* | *314.0* | *314.1* | *314.2* | *314.0* | *313.7* | *313.4* |
| 1° | 314.0 | 313.9 | 313.9 | 313.8 | *314.0* | 314.0 | 314.0 | 314.1 | 314.0 | 313.4 | 313.5 |
| 1.5° | 314.1 | 313.8 | 313.9 | 313.9 | *313.8* | 314.0 | 313.8 | 313.8 | 313.6 | 313.3 | 313.1 |
| 2° | 314.0 | 313.8 | 313.7 | 313.8 | *313.8* | 313.6 | 313.7 | 313.8 | 313.5 | 313.1 | 313.3 |
| 2.5° | 313.9 | 313.8 | 313.6 | 313.7 | *313.6* | 313.6 | 313.3 | 313.6 | 313.3 | 312.7 | 312.7 |
| 3° | 313.6 | 313.5 | 313.5 | 313.6 | *313.5* | 313.3 | 313.2 | 313.2 | 313.1 | 312.7 | 312.6 |
| 3.5° | 313.7 | 313.7 | 313.3 | 313.5 | *313.1* | 313.0 | 313.0 | 312.9 | 312.9 | 312.1 | 312.2 |
| 4° | 313.4 | 313.4 | 313.6 | 313.1 | *313.2* | 312.7 | 312.7 | 312.6 | 312.5 | 311.7 | 311.9 |
| 4.5° | 313.1 | 313.3 | 313.1 | 313.1 | *312.7* | 312.6 | 312.4 | 312.3 | 312.2 | 311.4 | 311.4 |
| 5° | 312.9 | 313.2 | 313.0 | 312.7 | *312.2* | 311.9 | 311.9 | 311.8 | 311.7 | 311.0 | 311.3 |
| 5.5° | 312.5 | 312.9 | 312.7 | 312.4 | *311.9* | 311.8 | 311.5 | 311.6 | 311.5 | 310.5 | 310.5 |
| 6° | 312.3 | 312.5 | 312.5 | 312.3 | *311.4* | 311.4 | 311.1 | 310.9 | 311.1 | 310.0 | 310.4 |
| 6.5° | 312.0 | 312.3 | 312.0 | 311.8 | *311.1* | 310.9 | 310.7 | 310.5 | 310.5 | 309.4 | 309.7 |
| 7° | 311.5 | 312.0 | 311.8 | 311.4 | *310.5* | 310.4 | 310.3 | 310.1 | 310.0 | 308.9 | 309.2 |
| 7.5° | 311.0 | 311.4 | 311.5 | 311.1 | *310.4* | 310.0 | 309.6 | 309.5 | 309.5 | 308.4 | 308.7 |
| 8° | 310.6 | 311.2 | 311.0 | 310.6 | *309.6* | 309.3 | 309.1 | 308.9 | 308.9 | 307.6 | 307.8 |
| 8.5° | 310.2 | 310.8 | 310.3 | 310.1 | *309.2* | 308.9 | 308.5 | 308.4 | 308.3 | 307.1 | 307.3 |
| 9° | 309.5 | 310.1 | 310.1 | 309.7 | *308.4* | 308.1 | 307.8 | 307.7 | 307.7 | 306.4 | 306.6 |
| 9.5° | 309.0 | 309.8 | 309.3 | 309.1 | *308.0* | 307.6 | 307.2 | 307.1 | 307.1 | 305.6 | 306.0 |
| 10° | 308.3 | 309.2 | 308.9 | 308.3 | *307.2* | 306.9 | 306.5 | 306.1 | 306.4 | 305.0 | 305.3 |
| 10.5° | 307.9 | 308.9 | 308.3 | 307.9 | *306.5* | 306.1 | 306.0 | 305.7 | 305.7 | 304.1 | 304.5 |
| 11° | 307.2 | 307.9 | 307.8 | 307.0 | *305.8* | 305.4 | 305.1 | 304.9 | 304.7 | 303.2 | 303.8 |
| 11.5° | 306.5 | 307.4 | 307.0 | 306.6 | *305.2* | 304.8 | 304.4 | 304.1 | 303.9 | 302.2 | 302.7 |
| 12° | 305.7 | 306.9 | 306.4 | 305.9 | *304.3* | 303.7 | 303.4 | 303.2 | 303.1 | 301.5 | 302.0 |
| 12.5° | 305.0 | 306.0 | 305.7 | 305.2 | *303.7* | 303.2 | 302.7 | 302.3 | 302.3 | 300.6 | 301.0 |
| 13° | 304.3 | 305.3 | 304.7 | 304.2 | *302.7* | 302.0 | 301.8 | 301.4 | 301.3 | 299.7 | 300.2 |
| 13.5° | 303.2 | 304.6 | 304.1 | 303.6 | *301.9* | 301.4 | 300.9 | 300.5 | 300.6 | 298.5 | 299.1 |
| 14° | 302.6 | 303.8 | 303.5 | 302.7 | *301.0* | 300.4 | 299.9 | 299.6 | 299.6 | 297.8 | 298.3 |
| 14.5° | 301.7 | 303.1 | 302.5 | 301.8 | *300.1* | 299.3 | 299.0 | 298.8 | 298.7 | 296.6 | 297.2 |
| 15° | 300.6 | 302.1 | 301.6 | 301.0 | *298.9* | 298.4 | 298.0 | 297.6 | 297.7 | 295.7 | 296.4 |
| 15.5° | 300.0 | 301.4 | 300.7 | 300.0 | *298.1* | 297.3 | 297.1 | 296.7 | 296.6 | 294.6 | 295.1 |
| 16° | 299.0 | 300.4 | 299.8 | 299.0 | *297.1* | 296.5 | 295.8 | 295.6 | 295.4 | 293.4 | 293.8 |
| 16.5° | 297.9 | 299.5 | 298.8 | 298.1 | *296.0* | 295.2 | 294.9 | 294.4 | 294.5 | 292.3 | 292.9 |
| 17° | 296.8 | 298.5 | 297.9 | 297.0 | *294.8* | 294.2 | 293.8 | 293.2 | 293.3 | 291.0 | 291.5 |
| 17.5° | 295.8 | 297.4 | 296.9 | 296.0 | *293.8* | 293.1 | 292.6 | 292.1 | 292.2 | 289.9 | 290.7 |
| 18° | 294.7 | 296.4 | 296.0 | 294.9 | *292.5* | 292.0 | 291.5 | 290.9 | 291.0 | 288.8 | 289.4 |
| 18.5° | 293.6 | 295.4 | 294.6 | 293.8 | *291.4* | 290.6 | 290.1 | 289.7 | 289.7 | 287.5 | 288.2 |
| 19° | 292.3 | 294.2 | 293.9 | 292.5 | *290.2* | 289.3 | 288.9 | 288.6 | 288.4 | 286.1 | 286.9 |
| 19.5° | 291.2 | 293.3 | 292.4 | 291.6 | *288.9* | 288.0 | 287.5 | 287.2 | 287.3 | 284.8 | 285.7 |
| 20° | 290.0 | 291.8 | 291.4 | 290.2 | *287.7* | 286.9 | 286.4 | 286.0 | 286.0 | 283.4 | 284.3 |
| 20.5° | 288.7 | 290.6 | 289.9 | 289.0 | *286.3* | 285.6 | 284.9 | 284.7 | 284.6 | 282.1 | 282.8 |
| 21° | 287.4 | 289.4 | 289.1 | 287.9 | *285.1* | 284.2 | 283.9 | 283.5 | 283.2 | 280.6 | 281.5 |
| 21.5° | 286.1 | 288.1 | 287.5 | 286.6 | *283.6* | 282.8 | 282.3 | 282.0 | 281.9 | 279.3 | 280.0 |
| 22° | 284.7 | 287.0 | 286.4 | 285.0 | *282.2* | 281.4 | 281.1 | 280.5 | 280.4 | 277.9 | 278.8 |

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TEST NUMBER: P1596640
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**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 22.5° | 283.3 | 285.7 | 284.9 | 284.0 | *280.9* | 280.1 | 279.5 | 279.2 | 279.0 | 276.2 | 277.4 |
| 23° | 282.1 | 284.2 | 283.5 | 282.4 | *279.5* | 278.6 | 278.2 | 277.6 | 277.5 | 274.9 | 275.8 |
| 23.5° | 280.5 | 282.8 | 282.4 | 281.1 | *278.0* | 277.2 | 276.6 | 276.1 | 276.2 | 273.5 | 274.2 |
| 24° | 279.1 | 281.6 | 280.9 | 279.7 | *276.4* | 275.6 | 275.2 | 274.6 | 274.5 | 271.8 | 272.9 |
| 24.5° | 277.7 | 280.1 | 279.4 | 278.5 | *275.0* | 274.2 | 273.6 | 272.9 | 272.9 | 270.3 | 271.2 |
| 25° | 276.2 | 278.7 | 278.2 | 276.7 | *273.4* | 272.6 | 272.1 | 271.6 | 271.4 | 268.7 | 269.7 |
| 25.5° | 274.8 | 277.1 | 276.8 | 275.4 | *271.8* | 271.1 | 270.5 | 270.0 | 269.7 | 267.0 | 268.1 |
| 26° | 273.3 | 275.7 | 275.0 | 273.7 | *270.1* | 269.5 | 268.9 | 268.3 | 268.3 | 265.6 | 266.5 |
| 26.5° | 271.6 | 274.4 | 273.7 | 272.4 | *268.7* | 267.7 | 267.2 | 266.7 | 266.7 | 263.7 | 264.7 |
| 27° | 270.1 | 272.4 | 271.8 | 270.6 | *267.2* | 266.1 | 265.8 | 265.1 | 265.0 | 262.1 | 263.0 |
| 27.5° | 268.3 | 271.1 | 270.5 | 269.2 | *265.4* | 264.6 | 264.0 | 263.5 | 263.3 | 260.5 | 261.4 |
| 28° | 266.8 | 269.6 | 268.9 | 267.4 | *263.7* | 262.8 | 262.4 | 261.8 | 261.5 | 258.5 | 259.8 |
| 28.5° | 265.0 | 267.9 | 267.2 | 265.9 | *262.0* | 261.1 | 260.7 | 260.0 | 259.9 | 256.9 | 257.9 |
| 29° | 263.4 | 266.2 | 265.5 | 264.1 | *260.4* | 259.3 | 258.9 | 258.3 | 258.0 | 255.3 | 256.1 |
| 29.5° | 261.6 | 264.6 | 264.0 | 262.6 | *258.7* | 257.7 | 257.1 | 256.4 | 256.3 | 253.3 | 254.5 |
| 30° | 260.0 | 263.0 | 262.2 | 260.7 | *256.8* | 255.7 | 255.4 | 254.8 | 254.6 | 251.5 | 252.7 |
| 30.5° | 258.2 | 261.2 | 260.5 | 259.1 | *255.1* | 254.1 | 253.5 | 252.9 | 252.7 | 249.6 | 250.8 |
| 31° | 256.4 | 259.6 | 258.6 | 257.2 | *253.3* | 252.3 | 251.8 | 251.1 | 250.9 | 248.0 | 248.9 |
| 31.5° | 254.6 | 257.8 | 257.1 | 255.7 | *251.4* | 250.5 | 249.8 | 249.2 | 248.9 | 245.9 | 247.0 |
| 32° | 252.8 | 255.9 | 255.2 | 253.6 | *249.6* | 248.7 | 248.1 | 247.4 | 247.3 | 244.1 | 245.3 |
| 32.5° | 251.1 | 254.3 | 253.4 | 252.1 | *247.7* | 246.7 | 246.1 | 245.5 | 245.4 | 242.2 | 243.3 |
| 33° | 249.2 | 252.4 | 251.6 | 250.1 | *245.7* | 245.0 | 244.2 | 243.6 | 243.3 | 240.3 | 241.4 |
| 33.5° | 247.4 | 250.6 | 249.9 | 248.2 | *243.8* | 242.9 | 242.4 | 241.8 | 241.6 | 238.3 | 239.3 |
| 34° | 245.4 | 248.9 | 247.9 | 246.3 | *242.0* | 241.1 | 240.4 | 239.9 | 239.6 | 236.4 | 237.5 |
| 34.5° | 243.7 | 246.9 | 246.1 | 244.5 | *240.2* | 239.2 | 238.5 | 237.9 | 237.6 | 234.4 | 235.4 |
| 35° | 241.4 | 244.9 | 244.2 | 242.5 | *238.0* | 236.9 | 236.5 | 235.9 | 235.6 | 232.4 | 233.7 |
| 35.5° | 239.6 | 243.2 | 242.3 | 240.6 | *236.0* | 235.1 | 234.3 | 233.8 | 233.6 | 230.4 | 231.5 |
| 36° | 237.8 | 241.2 | 240.4 | 238.7 | *234.2* | 233.2 | 232.5 | 231.9 | 231.7 | 228.3 | 229.4 |
| 36.5° | 235.7 | 239.3 | 238.4 | 236.7 | *232.1* | 231.2 | 230.4 | 229.9 | 229.8 | 226.4 | 227.4 |
| 37° | 233.7 | 237.2 | 236.3 | 234.8 | *230.0* | 229.1 | 228.5 | 227.9 | 227.4 | 224.3 | 225.5 |
| 37.5° | 231.6 | 235.3 | 234.3 | 232.5 | *228.3* | 227.2 | 226.4 | 225.7 | 225.5 | 222.2 | 223.5 |
| 38° | 229.5 | 233.3 | 232.4 | 230.7 | *226.0* | 225.0 | 224.3 | 223.8 | 223.3 | 220.2 | 221.3 |
| 38.5° | 227.6 | 231.3 | 230.4 | 228.7 | *223.9* | 223.0 | 222.3 | 221.7 | 221.5 | 218.1 | 219.2 |
| 39° | 225.6 | 229.3 | 228.2 | 226.6 | *221.9* | 221.0 | 220.0 | 219.7 | 219.3 | 215.9 | 217.0 |
| 39.5° | 223.5 | 227.3 | 226.3 | 224.5 | *219.8* | 218.9 | 218.1 | 217.5 | 217.2 | 213.7 | 214.8 |
| 40° | 221.4 | 225.2 | 224.2 | 222.6 | *217.6* | 216.6 | 216.0 | 215.4 | 215.1 | 211.8 | 212.7 |
| 40.5° | 219.3 | 223.2 | 222.2 | 220.2 | *215.7* | 214.6 | 213.7 | 213.3 | 212.8 | 209.5 | 210.7 |
| 41° | 217.0 | 220.9 | 219.9 | 218.5 | *213.2* | 212.5 | 211.6 | 211.2 | 210.7 | 207.4 | 208.4 |
| 41.5° | 215.0 | 218.9 | 217.9 | 216.3 | *211.3* | 210.3 | 209.6 | 208.9 | 208.7 | 205.3 | 206.4 |
| 42° | 212.8 | 216.6 | 215.7 | 214.1 | *209.1* | 208.2 | 207.4 | 206.8 | 206.5 | 203.2 | 204.2 |
| 42.5° | 210.7 | 214.7 | 213.7 | 211.8 | *206.9* | 206.0 | 205.3 | 204.6 | 204.3 | 200.9 | 202.1 |
| 43° | 208.5 | 212.5 | 211.5 | 209.9 | *204.7* | 203.8 | 203.0 | 202.7 | 202.2 | 198.8 | 199.8 |
| 43.5° | 206.3 | 210.5 | 209.3 | 207.6 | *202.7* | 201.7 | 200.9 | 200.3 | 199.9 | 196.5 | 197.7 |
| 44° | 204.1 | 208.3 | 207.2 | 205.5 | *200.4* | 199.5 | 198.7 | 198.2 | 197.7 | 194.3 | 195.4 |
| 44.5° | 202.0 | 206.0 | 205.0 | 203.1 | *198.3* | 197.3 | 196.6 | 196.0 | 195.5 | 192.1 | 193.2 |

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Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45° | 199.6 | 203.9 | 202.8 | 201.1 | 196.0 | 195.1 | 194.2 | 193.9 | 193.3 | 189.9 | 191.0 |
| 45.5° | 197.5 | 201.7 | 200.6 | 199.0 | 193.8 | 192.9 | 192.2 | 191.7 | 191.1 | 187.7 | 188.8 |
| 46° | 195.3 | 199.4 | 198.5 | 196.8 | 191.5 | 190.7 | 189.8 | 189.4 | 188.9 | 185.4 | 186.6 |
| 46.5° | 193.1 | 197.3 | 196.2 | 194.5 | 189.4 | 188.5 | 187.7 | 187.2 | 186.7 | 183.2 | 184.2 |
| 47° | 190.7 | 195.1 | 194.0 | 192.4 | 187.1 | 186.2 | 185.3 | 184.9 | 184.3 | 181.0 | 182.0 |
| 47.5° | 188.6 | 192.9 | 191.8 | 190.0 | 184.7 | 184.0 | 183.1 | 182.6 | 182.3 | 178.8 | 179.8 |
| 48° | 186.2 | 190.6 | 189.6 | 187.8 | 182.6 | 181.8 | 180.8 | 180.3 | 179.9 | 176.4 | 177.6 |
| 48.5° | 184.1 | 188.4 | 187.4 | 185.6 | 180.3 | 179.7 | 178.7 | 178.1 | 177.7 | 174.1 | 175.3 |
| 49° | 181.9 | 186.3 | 185.2 | 183.5 | 178.2 | 177.3 | 176.3 | 175.9 | 175.4 | 172.0 | 173.0 |
| 49.5° | 179.6 | 184.0 | 182.8 | 181.0 | 175.9 | 175.1 | 174.0 | 173.6 | 173.3 | 169.5 | 170.7 |
| 50° | 177.5 | 181.7 | 180.6 | 178.8 | 173.5 | 172.8 | 171.8 | 171.3 | 171.1 | 167.4 | 168.5 |
| 50.5° | 175.1 | 179.5 | 178.4 | 176.5 | 171.3 | 170.7 | 169.4 | 169.0 | 168.8 | 164.9 | 166.3 |
| 51° | 173.0 | 177.3 | 176.2 | 174.4 | 168.9 | 168.2 | 167.2 | 166.7 | 166.6 | 162.7 | 164.0 |
| 51.5° | 170.8 | 175.0 | 173.8 | 172.1 | 166.7 | 166.1 | 164.7 | 164.3 | 164.4 | 160.4 | 161.6 |
| 52° | 168.5 | 172.5 | 171.7 | 169.9 | 164.3 | 163.7 | 162.6 | 162.1 | 162.1 | 158.2 | 159.3 |
| 52.5° | 166.3 | 170.5 | 169.4 | 167.6 | 162.1 | 161.6 | 160.3 | 159.7 | 159.8 | 155.8 | 157.1 |
| 53° | 164.1 | 168.0 | 167.1 | 165.3 | 159.6 | 159.1 | 157.9 | 157.3 | 157.6 | 153.4 | 154.6 |
| 53.5° | 161.8 | 165.8 | 164.7 | 163.1 | 157.3 | 156.8 | 155.6 | 154.9 | 155.2 | 151.0 | 152.4 |
| 54° | 159.7 | 163.4 | 162.4 | 160.8 | 155.0 | 154.5 | 153.3 | 152.6 | 152.8 | 148.7 | 150.0 |
| 54.5° | 157.6 | 161.1 | 160.1 | 158.6 | 152.7 | 152.2 | 150.9 | 150.3 | 150.5 | 146.3 | 147.7 |
| 55° | 155.1 | 158.8 | 157.7 | 156.3 | 150.4 | 149.9 | 148.6 | 148.0 | 148.3 | 144.0 | 145.4 |
| 55.5° | 152.8 | 156.4 | 155.5 | 154.0 | 148.1 | 147.6 | 146.3 | 145.6 | 145.8 | 141.6 | 143.1 |
| 56° | 150.4 | 154.0 | 153.1 | 151.7 | 145.6 | 145.2 | 143.9 | 143.4 | 143.4 | 139.3 | 140.7 |
| 56.5° | 148.0 | 151.7 | 150.7 | 149.4 | 143.3 | 142.7 | 141.5 | 140.9 | 141.1 | 137.0 | 138.3 |
| 57° | 145.6 | 149.3 | 148.4 | 147.1 | 140.9 | 140.4 | 139.2 | 138.6 | 138.7 | 134.7 | 136.0 |
| 57.5° | 143.3 | 147.1 | 146.0 | 144.7 | 138.6 | 138.0 | 137.0 | 136.3 | 136.5 | 132.3 | 133.7 |
| 58° | 141.0 | 144.6 | 143.7 | 142.4 | 136.4 | 135.6 | 134.4 | 133.9 | 133.9 | 130.0 | 131.3 |
| 58.5° | 138.5 | 142.3 | 141.2 | 139.8 | 133.9 | 133.2 | 132.2 | 131.5 | 131.6 | 127.7 | 128.9 |
| 59° | 136.1 | 139.9 | 138.9 | 137.6 | 131.6 | 130.8 | 129.8 | 129.2 | 129.2 | 125.2 | 126.6 |
| 59.5° | 133.7 | 137.6 | 136.6 | 135.3 | 129.2 | 128.4 | 127.4 | 126.8 | 126.8 | 123.0 | 124.1 |
| 60° | 131.3 | 135.1 | 134.2 | 132.7 | 126.8 | 126.1 | 125.1 | 124.5 | 124.5 | 120.6 | 121.8 |
| 60.5° | 128.9 | 132.9 | 131.8 | 130.5 | 124.6 | 123.6 | 122.7 | 122.1 | 122.0 | 118.2 | 119.4 |
| 61° | 126.4 | 130.5 | 129.5 | 128.0 | 122.1 | 121.2 | 120.3 | 119.7 | 119.5 | 115.9 | 117.1 |
| 61.5° | 124.1 | 128.1 | 127.0 | 125.5 | 119.9 | 118.8 | 117.8 | 117.4 | 117.2 | 113.5 | 114.7 |
| 62° | 121.6 | 125.8 | 124.7 | 123.2 | 117.4 | 116.4 | 115.6 | 115.0 | 114.8 | 111.0 | 112.2 |
| 62.5° | 119.2 | 123.5 | 122.2 | 120.8 | 115.2 | 113.9 | 113.1 | 112.6 | 112.4 | 108.7 | 109.9 |
| 63° | 116.8 | 121.1 | 119.9 | 118.3 | 112.7 | 111.6 | 110.7 | 110.3 | 109.9 | 106.3 | 107.5 |
| 63.5° | 114.3 | 118.7 | 117.5 | 116.0 | 110.5 | 109.1 | 108.4 | 107.8 | 107.5 | 104.0 | 105.1 |
| 64° | 112.0 | 116.4 | 115.0 | 113.6 | 108.1 | 106.8 | 105.8 | 105.5 | 105.1 | 101.6 | 102.7 |
| 64.5° | 109.5 | 114.0 | 112.6 | 111.2 | 105.9 | 104.4 | 103.5 | 103.1 | 102.7 | 99.3 | 100.4 |
| 65° | 107.1 | 111.6 | 110.2 | 108.7 | 103.5 | 102.0 | 101.2 | 100.8 | 100.4 | 96.9 | 98.0 |
| 65.5° | 104.6 | 109.2 | 107.8 | 106.4 | 101.2 | 99.6 | 98.8 | 98.4 | 98.0 | 94.6 | 95.6 |
| 66° | 102.2 | 106.7 | 105.4 | 104.0 | 98.8 | 97.3 | 96.5 | 96.1 | 95.5 | 92.2 | 93.2 |
| 66.5° | 99.8 | 104.4 | 103.0 | 101.6 | 96.5 | 94.8 | 94.1 | 93.7 | 93.2 | 90.0 | 90.9 |
| 67° | 97.4 | 102.0 | 100.6 | 99.1 | 94.1 | 92.5 | 91.8 | 91.4 | 90.8 | 87.6 | 88.5 |

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

Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67.5° | 95.0 | 99.6 | 98.3 | 96.8 | *91.9* | 90.1 | 89.5 | 89.1 | 88.4 | 85.3 | 86.3 |
| 68° | 92.6 | 97.3 | 95.8 | 94.4 | *89.4* | 87.8 | 87.1 | 86.8 | 86.1 | 83.0 | 84.0 |
| 68.5° | 90.2 | 94.9 | 93.5 | 92.0 | *87.1* | 85.5 | 84.8 | 84.5 | 83.7 | 80.7 | 81.6 |
| 69° | 87.8 | 92.6 | 91.1 | 89.7 | *84.8* | 83.2 | 82.5 | 82.2 | 81.3 | 78.4 | 79.3 |
| 69.5° | 85.4 | 90.2 | 88.8 | 87.2 | *82.5* | 80.9 | 80.2 | 79.9 | 78.9 | 76.2 | 77.0 |
| 70° | 83.0 | 87.9 | 86.4 | 84.9 | *80.1* | 78.6 | 77.9 | 77.6 | 76.5 | 73.8 | 74.7 |
| 70.5° | 80.7 | 85.6 | 84.2 | 82.5 | *77.8* | 76.2 | 75.6 | 75.3 | 74.4 | 71.6 | 72.4 |
| 71° | 78.4 | 83.2 | 81.8 | 80.2 | *75.5* | 73.9 | 73.3 | 73.0 | 72.2 | 69.2 | 70.1 |
| 71.5° | 76.0 | 80.9 | 79.6 | 77.9 | *73.2* | 71.6 | 71.0 | 70.8 | 69.8 | 67.1 | 68.0 |
| 72° | 73.8 | 78.6 | 77.2 | 75.6 | *70.9* | 69.4 | 68.7 | 68.5 | 67.6 | 64.8 | 65.7 |
| 72.5° | 71.4 | 76.3 | 75.0 | 73.3 | *68.7* | 67.1 | 66.5 | 66.3 | 65.3 | 62.6 | 63.5 |
| 73° | 69.2 | 74.0 | 72.7 | 71.0 | *66.4* | 64.8 | 64.2 | 64.0 | 63.1 | 60.3 | 61.3 |
| 73.5° | 66.9 | 71.7 | 70.5 | 68.7 | *64.1* | 62.7 | 62.1 | 61.8 | 60.9 | 58.1 | 59.0 |
| 74° | 64.7 | 69.5 | 68.2 | 66.4 | *61.9* | 60.5 | 59.7 | 59.5 | 58.7 | 55.9 | 56.8 |
| 74.5° | 62.5 | 67.2 | 66.0 | 64.1 | *59.7* | 58.3 | 57.6 | 57.3 | 56.5 | 53.7 | 54.6 |
| 75° | 60.2 | 65.0 | 63.8 | 62.0 | *57.3* | 56.1 | 55.4 | 55.1 | 54.3 | 51.4 | 52.4 |
| 75.5° | 57.9 | 62.7 | 61.6 | 59.7 | *55.2* | 53.9 | 53.1 | 52.8 | 52.1 | 49.2 | 50.2 |
| 76° | 55.8 | 60.4 | 59.4 | 57.5 | *52.9* | 51.7 | 50.9 | 50.6 | 50.0 | 47.0 | 48.0 |
| 76.5° | 53.6 | 58.2 | 57.2 | 55.3 | *50.7* | 49.6 | 48.7 | 48.4 | 47.8 | 44.9 | 45.9 |
| 77° | 51.4 | 56.0 | 54.9 | 53.1 | *48.5* | 47.4 | 46.5 | 46.2 | 45.8 | 42.7 | 43.8 |
| 77.5° | 49.3 | 53.7 | 52.7 | 50.8 | *46.4* | 45.3 | 44.4 | 44.0 | 43.6 | 40.5 | 41.6 |
| 78° | 47.1 | 51.5 | 50.6 | 48.8 | *44.1* | 43.2 | 42.2 | 41.9 | 41.6 | 38.4 | 39.5 |
| 78.5° | 45.0 | 49.3 | 48.4 | 46.6 | *42.0* | 41.0 | 40.0 | 39.7 | 39.4 | 36.3 | 37.3 |
| 79° | 42.8 | 47.1 | 46.2 | 44.5 | *39.8* | 38.9 | 37.9 | 37.6 | 37.4 | 34.2 | 35.2 |
| 79.5° | 40.7 | 44.9 | 44.0 | 42.3 | *37.6* | 36.7 | 35.8 | 35.5 | 35.3 | 32.1 | 33.2 |
| 80° | 38.5 | 42.8 | 41.8 | 40.2 | *35.5* | 34.7 | 33.7 | 33.3 | 33.2 | 30.0 | 31.1 |
| 80.5° | 36.5 | 40.6 | 39.7 | 38.0 | *33.4* | 32.6 | 31.6 | 31.3 | 31.2 | 28.0 | 29.0 |
| 81° | 34.5 | 38.4 | 37.5 | 36.0 | *31.3* | 30.5 | 29.5 | 29.2 | 29.2 | 25.9 | 27.0 |
| 81.5° | 32.4 | 36.3 | 35.4 | 34.0 | *29.2* | 28.4 | 27.5 | 27.1 | 27.2 | 23.9 | 24.9 |
| 82° | 30.3 | 34.2 | 33.3 | 31.9 | *27.1* | 26.4 | 25.4 | 25.0 | 25.2 | 21.9 | 22.9 |
| 82.5° | 28.3 | 32.1 | 31.2 | 29.8 | *25.0* | 24.2 | 23.4 | 23.0 | 23.2 | 19.9 | 20.9 |
| 83° | 26.2 | 30.0 | 29.1 | 27.8 | *23.0* | 22.2 | 21.3 | 21.0 | 21.3 | 17.9 | 19.0 |
| 83.5° | 24.2 | 27.8 | 27.0 | 25.7 | *21.0* | 20.2 | 19.4 | 19.0 | 19.3 | 16.0 | 17.0 |
| 84° | 22.2 | 25.7 | 25.0 | 23.7 | *19.0* | 18.2 | 17.4 | 17.1 | 17.5 | 14.1 | 15.1 |
| 84.5° | 20.2 | 23.6 | 22.9 | 21.6 | *17.0* | 16.2 | 15.5 | 15.2 | 15.6 | 12.2 | 13.2 |
| 85° | 18.2 | 21.6 | 20.9 | 19.6 | *15.0* | 14.2 | 13.5 | 13.2 | 13.6 | 10.4 | 11.3 |
| 85.5° | 16.2 | 19.6 | 18.8 | 17.6 | *13.1* | 12.3 | 11.6 | 11.4 | 11.8 | 8.6 | 9.4 |
| 86° | 14.3 | 17.5 | 16.8 | 15.6 | *11.2* | 10.4 | 9.7 | 9.5 | 9.9 | 6.8 | 7.6 |
| 86.5° | 12.4 | 15.5 | 14.8 | 13.6 | *9.3* | 8.5 | 7.8 | 7.7 | 8.1 | 5.0 | 5.7 |
| 87° | 10.4 | 13.6 | 12.8 | 11.7 | *7.4* | 6.6 | 5.9 | 5.8 | 6.2 | 3.2 | 3.8 |
| 87.5° | 8.5 | 11.6 | 10.8 | 9.7 | *5.5* | 4.7 | 4.0 | 4.0 | 4.4 | 1.7 | 2.2 |
| 88° | 6.6 | 9.7 | 8.9 | 7.8 | *3.6* | 2.8 | 2.3 | 2.4 | 2.7 | 0.7 | 1.0 |
| 88.5° | 4.8 | 7.8 | 6.9 | 5.8 | *1.7* | 1.2 | 1.0 | 1.1 | 1.3 | 0.2 | 0.4 |
| 89° | 2.9 | 5.9 | 5.0 | 4.0 | *0.4* | 0.3 | 0.3 | 0.4 | 0.6 | 0.1 | 0.1 |
| 89.5° | 2.2 | 4.0 | 3.1 | 3.0 | *0.1* | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |

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

Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 90° | 1.5 | 3.0 | 2.3 | 2.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 90.5° | 0.8 | 2.0 | 1.5 | 1.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 91° | 0.0 | 1.0 | 0.8 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 91.5° | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92° | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92.5° | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 93° | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 93.5° | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 94° | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 94.5° | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 96° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 96.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 97° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 97.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 98° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 98.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 99° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 99.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 100° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 100.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 101° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 101.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 102° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 102.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 103° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 103.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 104° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 104.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 105° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 105.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 106° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 106.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 107° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 107.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 108° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 108.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 109° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 109.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 110° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 110.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 111° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 111.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 112° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |

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

Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 113° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 113.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 114° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 114.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 115° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 115.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 116° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 116.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 117° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 117.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 118° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 118.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 119° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 119.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 120° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 120.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 121° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 121.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 122° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 122.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 123° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 123.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 124° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 124.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 125° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 125.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 126° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 126.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 127° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 127.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 128° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 128.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 129° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 129.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 130° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| 130.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| 131° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| 131.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| 132° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| 132.5° | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 |
| 133° | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 133.5° | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 134° | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 134.5° | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |

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

Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 135° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 135.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 136° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 136.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 137° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 137.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 138° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 138.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 139° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 139.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 140° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 140.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 141° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 141.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 142° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 142.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 143° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 143.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 144° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 144.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 145° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 145.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 146° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 146.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 147° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 147.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 148° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 148.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 149° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 149.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 150° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 150.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 151° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 151.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 152° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 152.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 153° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 153.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 154° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 154.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 155° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 155.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 156° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 |
| 156.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 |
| 157° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 |

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

Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 157.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 |
| 158° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 |
| 158.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 |
| 159° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 |
| 159.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 |
| 160° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 160.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 161° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 161.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 162° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 162.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 163° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 163.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 164° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 164.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 165° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 165.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 166° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 166.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 167° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 167.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 168° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 168.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 169° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 169.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 170° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 170.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 171° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 171.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 172° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 172.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 173° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 173.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 174° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 174.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 |
| 175° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 |
| 175.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 176° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 176.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 177° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 177.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 178° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 178.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 179° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 179.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |

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Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 180° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |

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Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 0° | 313.9 | 313.9 | 313.9 | 313.9 | 313.9 | 313.9 |
| 0.5° | *313.8* | *314.2* | *314.1* | *313.9* | *314.3* | *314.2* |
| 1° | 313.6 | 314.1 | 314.1 | 314.2 | 314.2 | 314.0 |
| 1.5° | 313.5 | 314.1 | 314.1 | 314.0 | 314.3 | 314.1 |
| 2° | 313.2 | 313.8 | 313.8 | 314.1 | 314.1 | 314.0 |
| 2.5° | 313.1 | 313.7 | 313.8 | 313.8 | 314.1 | 313.9 |
| 3° | 312.6 | 313.6 | 313.5 | 313.8 | 314.0 | 313.6 |
| 3.5° | 312.6 | 313.4 | 313.5 | 313.6 | 313.8 | 313.7 |
| 4° | 312.1 | 313.1 | 313.0 | 313.5 | 313.5 | 313.4 |
| 4.5° | 311.8 | 312.9 | 313.2 | 313.1 | 313.4 | 313.1 |
| 5° | 311.5 | 312.5 | 312.8 | 313.1 | 312.9 | 312.9 |
| 5.5° | 311.0 | 312.0 | 312.4 | 312.4 | 312.7 | 312.5 |
| 6° | 310.5 | 311.8 | 312.2 | 312.6 | 312.3 | 312.3 |
| 6.5° | 310.0 | 311.4 | 311.8 | 311.9 | 312.2 | 312.0 |
| 7° | 309.4 | 311.0 | 311.2 | 311.7 | 311.4 | 311.5 |
| 7.5° | 309.1 | 310.5 | 310.7 | 311.1 | 311.3 | 311.0 |
| 8° | 308.4 | 309.8 | 310.4 | 310.5 | 310.7 | 310.6 |
| 8.5° | 307.8 | 309.4 | 309.7 | 310.1 | 310.5 | 310.2 |
| 9° | 307.2 | 308.6 | 309.1 | 309.6 | 309.7 | 309.5 |
| 9.5° | 306.3 | 308.0 | 308.6 | 309.0 | 309.4 | 309.0 |
| 10° | 305.8 | 307.6 | 308.0 | 308.5 | 308.6 | 308.3 |
| 10.5° | 305.0 | 306.8 | 307.2 | 307.9 | 308.2 | 307.9 |
| 11° | 304.3 | 306.2 | 306.7 | 307.1 | 307.3 | 307.2 |
| 11.5° | 303.3 | 305.5 | 305.8 | 306.2 | 306.6 | 306.5 |
| 12° | 302.5 | 304.6 | 305.1 | 305.7 | 305.8 | 305.7 |
| 12.5° | 301.7 | 304.1 | 304.4 | 304.7 | 305.2 | 305.0 |
| 13° | 300.8 | 302.9 | 303.6 | 304.3 | 304.4 | 304.3 |
| 13.5° | 300.0 | 302.0 | 302.8 | 303.2 | 303.7 | 303.2 |
| 14° | 298.9 | 301.2 | 301.9 | 302.5 | 302.8 | 302.6 |
| 14.5° | 298.1 | 300.3 | 300.9 | 301.6 | 302.0 | 301.7 |
| 15° | 297.0 | 299.5 | 300.0 | 300.9 | 300.9 | 300.6 |
| 15.5° | 295.9 | 298.3 | 299.1 | 299.7 | 300.0 | 300.0 |
| 16° | 294.8 | 297.4 | 298.0 | 298.9 | 299.0 | 299.0 |
| 16.5° | 293.8 | 296.5 | 297.1 | 297.7 | 298.2 | 297.9 |
| 17° | 292.7 | 295.1 | 296.1 | 296.9 | 296.9 | 296.8 |
| 17.5° | 291.5 | 294.1 | 294.9 | 295.6 | 296.1 | 295.8 |
| 18° | 289.9 | 293.2 | 293.8 | 294.8 | 294.8 | 294.7 |
| 18.5° | 289.2 | 291.7 | 292.7 | 293.3 | 293.9 | 293.6 |
| 19° | 287.8 | 290.7 | 291.6 | 292.5 | 292.4 | 292.3 |
| 19.5° | 286.4 | 289.5 | 290.2 | 291.2 | 291.4 | 291.2 |
| 20° | 285.1 | 288.3 | 289.1 | 290.1 | 290.2 | 290.0 |
| 20.5° | 283.7 | 286.9 | 287.8 | 288.7 | 289.1 | 288.7 |
| 21° | 282.3 | 285.5 | 286.4 | 287.5 | 287.6 | 287.4 |
| 21.5° | 281.1 | 284.2 | 285.1 | 286.0 | 286.3 | 286.1 |
| 22° | 279.5 | 282.8 | 283.9 | 284.8 | 284.9 | 284.7 |

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

Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 22.5° | 278.3 | 281.3 | 282.5 | 283.5 | 283.9 | 283.3 |
| 23° | 276.6 | 280.1 | 281.2 | 282.2 | 282.2 | 282.1 |
| 23.5° | 275.3 | 278.5 | 279.6 | 280.6 | 281.0 | 280.5 |
| 24° | 273.6 | 277.1 | 278.1 | 279.4 | 279.4 | 279.1 |
| 24.5° | 272.2 | 275.5 | 276.8 | 277.8 | 278.1 | 277.7 |
| 25° | 270.5 | 274.2 | 275.1 | 276.4 | 276.6 | 276.2 |
| 25.5° | 269.1 | 272.4 | 273.6 | 274.8 | 275.1 | 274.8 |
| 26° | 267.2 | 271.0 | 272.2 | 273.3 | 273.3 | 273.3 |
| 26.5° | 265.7 | 269.4 | 270.5 | 271.7 | 272.2 | 271.6 |
| 27° | 264.1 | 267.8 | 269.0 | 270.2 | 270.2 | 270.1 |
| 27.5° | 262.3 | 266.1 | 267.2 | 268.4 | 268.8 | 268.3 |
| 28° | 260.6 | 264.4 | 265.6 | 266.9 | 267.2 | 266.8 |
| 28.5° | 259.0 | 262.7 | 264.1 | 265.2 | 265.4 | 265.0 |
| 29° | 257.2 | 261.1 | 262.3 | 263.6 | 263.9 | 263.4 |
| 29.5° | 255.5 | 259.2 | 260.6 | 261.8 | 262.2 | 261.6 |
| 30° | 253.7 | 257.7 | 258.9 | 260.1 | 260.4 | 260.0 |
| 30.5° | 251.8 | 255.7 | 257.4 | 258.4 | 258.7 | 258.2 |
| 31° | 250.0 | 254.1 | 255.3 | 256.7 | 256.9 | 256.4 |
| 31.5° | 248.0 | 252.2 | 253.7 | 254.9 | 255.2 | 254.6 |
| 32° | 246.5 | 250.2 | 252.0 | 253.0 | 253.3 | 252.8 |
| 32.5° | 244.3 | 248.5 | 250.0 | 251.2 | 251.5 | 251.1 |
| 33° | 242.5 | 246.7 | 248.1 | 249.3 | 249.5 | 249.2 |
| 33.5° | 240.6 | 244.7 | 246.2 | 247.5 | 247.8 | 247.4 |
| 34° | 238.6 | 242.9 | 244.4 | 245.6 | 245.9 | 245.4 |
| 34.5° | 236.7 | 240.9 | 242.4 | 243.7 | 243.9 | 243.7 |
| 35° | 234.6 | 239.1 | 240.6 | 241.8 | 242.2 | 241.4 |
| 35.5° | 232.7 | 237.0 | 238.6 | 239.8 | 240.1 | 239.6 |
| 36° | 230.7 | 235.1 | 236.7 | 237.9 | 238.2 | 237.8 |
| 36.5° | 228.7 | 233.0 | 234.6 | 236.0 | 236.2 | 235.7 |
| 37° | 226.6 | 231.2 | 232.6 | 234.0 | 234.2 | 233.7 |
| 37.5° | 224.7 | 229.0 | 230.6 | 231.9 | 232.3 | 231.6 |
| 38° | 222.7 | 227.0 | 228.6 | 230.0 | 230.2 | 229.5 |
| 38.5° | 220.4 | 224.9 | 226.5 | 227.9 | 228.3 | 227.6 |
| 39° | 218.3 | 223.0 | 224.4 | 225.8 | 226.0 | 225.6 |
| 39.5° | 216.3 | 220.8 | 222.5 | 223.8 | 224.1 | 223.5 |
| 40° | 214.2 | 218.6 | 220.3 | 221.6 | 222.0 | 221.4 |
| 40.5° | 212.0 | 216.5 | 218.1 | 219.3 | 219.9 | 219.3 |
| 41° | 209.9 | 214.5 | 216.1 | 217.5 | 217.8 | 217.0 |
| 41.5° | 207.7 | 212.3 | 213.9 | 215.2 | 215.8 | 215.0 |
| 42° | 205.5 | 210.3 | 211.8 | 213.1 | 213.5 | 212.8 |
| 42.5° | 203.4 | 208.0 | 209.7 | 211.0 | 211.4 | 210.7 |
| 43° | 201.1 | 205.9 | 207.4 | 208.8 | 209.2 | 208.5 |
| 43.5° | 199.0 | 203.7 | 205.3 | 206.6 | 207.1 | 206.3 |
| 44° | 196.8 | 201.6 | 203.2 | 204.5 | 204.8 | 204.1 |
| 44.5° | 194.5 | 199.3 | 200.9 | 202.4 | 202.6 | 202.0 |

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 45° | 192.3 | 197.2 | 198.9 | 200.0 | 200.5 | 199.6 |
| 45.5° | 190.1 | 194.8 | 196.7 | 197.8 | 198.4 | 197.5 |
| 46° | 187.8 | 192.7 | 194.3 | 195.8 | 196.1 | 195.3 |
| 46.5° | 185.7 | 190.4 | 192.2 | 193.4 | 194.2 | 193.1 |
| 47° | 183.4 | 188.3 | 189.9 | 191.2 | 191.7 | 190.7 |
| 47.5° | 181.2 | 185.9 | 187.6 | 189.1 | 189.4 | 188.6 |
| 48° | 179.0 | 183.8 | 185.4 | 186.8 | 187.4 | 186.2 |
| 48.5° | 176.7 | 181.4 | 183.1 | 184.5 | 185.1 | 184.1 |
| 49° | 174.4 | 179.3 | 180.9 | 182.3 | 182.7 | 181.9 |
| 49.5° | 172.2 | 177.0 | 178.6 | 180.2 | 180.7 | 179.6 |
| 50° | 169.9 | 174.7 | 176.5 | 177.9 | 178.3 | 177.5 |
| 50.5° | 167.7 | 172.3 | 174.1 | 175.6 | 176.1 | 175.1 |
| 51° | 165.4 | 170.1 | 171.9 | 173.4 | 173.8 | 173.0 |
| 51.5° | 162.9 | 167.7 | 169.5 | 171.0 | 171.6 | 170.8 |
| 52° | 160.8 | 165.5 | 167.3 | 168.8 | 169.2 | 168.5 |
| 52.5° | 158.6 | 163.2 | 165.2 | 166.6 | 166.9 | 166.3 |
| 53° | 156.2 | 160.8 | 162.7 | 164.2 | 164.6 | 164.1 |
| 53.5° | 153.8 | 158.4 | 160.6 | 161.9 | 162.2 | 161.8 |
| 54° | 151.7 | 156.2 | 158.3 | 159.5 | 159.7 | 159.7 |
| 54.5° | 149.2 | 153.9 | 156.0 | 157.3 | 157.7 | 157.6 |
| 55° | 146.9 | 151.6 | 153.9 | 154.9 | 155.1 | 155.1 |
| 55.5° | 144.6 | 149.2 | 151.4 | 152.6 | 152.8 | 152.8 |
| 56° | 142.3 | 146.9 | 149.2 | 150.1 | 150.4 | 150.4 |
| 56.5° | 139.9 | 144.5 | 146.9 | 147.9 | 148.1 | 148.0 |
| 57° | 137.6 | 142.2 | 144.6 | 145.5 | 145.7 | 145.6 |
| 57.5° | 135.3 | 139.8 | 142.2 | 143.2 | 143.3 | 143.3 |
| 58° | 132.9 | 137.4 | 139.8 | 140.8 | 140.9 | 141.0 |
| 58.5° | 130.6 | 135.1 | 137.5 | 138.5 | 138.6 | 138.5 |
| 59° | 128.1 | 132.8 | 135.1 | 136.0 | 136.2 | 136.1 |
| 59.5° | 125.8 | 130.3 | 132.8 | 133.6 | 133.9 | 133.7 |
| 60° | 123.5 | 128.0 | 130.4 | 131.3 | 131.5 | 131.3 |
| 60.5° | 120.9 | 125.6 | 128.0 | 128.9 | 129.1 | 128.9 |
| 61° | 118.7 | 123.3 | 125.6 | 126.4 | 126.8 | 126.4 |
| 61.5° | 116.2 | 121.0 | 123.2 | 124.1 | 124.6 | 124.1 |
| 62° | 113.9 | 118.6 | 120.8 | 121.7 | 122.2 | 121.6 |
| 62.5° | 111.5 | 116.3 | 118.4 | 119.3 | 119.8 | 119.2 |
| 63° | 109.1 | 113.9 | 115.9 | 116.9 | 117.5 | 116.8 |
| 63.5° | 106.6 | 111.6 | 113.5 | 114.5 | 115.0 | 114.3 |
| 64° | 104.3 | 109.4 | 111.1 | 112.1 | 112.7 | 112.0 |
| 64.5° | 101.8 | 107.0 | 108.7 | 109.6 | 110.3 | 109.5 |
| 65° | 99.5 | 104.7 | 106.3 | 107.3 | 107.9 | 107.1 |
| 65.5° | 97.1 | 102.4 | 103.8 | 104.9 | 105.5 | 104.6 |
| 66° | 94.6 | 100.0 | 101.4 | 102.5 | 103.1 | 102.2 |
| 66.5° | 92.3 | 97.7 | 99.1 | 100.1 | 100.7 | 99.8 |
| 67° | 90.0 | 95.4 | 96.6 | 97.8 | 98.3 | 97.4 |

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 67.5° | 87.6 | 93.1 | 94.4 | 95.4 | 96.0 | 95.0 |
| 68° | 85.3 | 90.8 | 91.8 | 93.0 | 93.7 | 92.6 |
| 68.5° | 83.0 | 88.4 | 89.5 | 90.7 | 91.3 | 90.2 |
| 69° | 80.7 | 86.1 | 87.1 | 88.2 | 89.0 | 87.8 |
| 69.5° | 78.4 | 83.7 | 84.8 | 85.9 | 86.6 | 85.4 |
| 70° | 76.1 | 81.4 | 82.4 | 83.6 | 84.3 | 83.0 |
| 70.5° | 73.7 | 79.1 | 80.0 | 81.3 | 82.0 | 80.7 |
| 71° | 71.4 | 76.8 | 77.7 | 79.0 | 79.7 | 78.4 |
| 71.5° | 69.1 | 74.5 | 75.4 | 76.7 | 77.5 | 76.0 |
| 72° | 66.9 | 72.2 | 73.1 | 74.4 | 75.1 | 73.8 |
| 72.5° | 64.7 | 70.0 | 70.9 | 72.2 | 72.8 | 71.4 |
| 73° | 62.4 | 67.8 | 68.6 | 69.9 | 70.6 | 69.2 |
| 73.5° | 60.3 | 65.5 | 66.3 | 67.7 | 68.3 | 66.9 |
| 74° | 58.1 | 63.3 | 64.1 | 65.4 | 66.1 | 64.7 |
| 74.5° | 55.9 | 61.1 | 61.9 | 63.3 | 63.8 | 62.5 |
| 75° | 53.7 | 58.8 | 59.6 | 61.0 | 61.5 | 60.2 |
| 75.5° | 51.5 | 56.6 | 57.4 | 58.9 | 59.3 | 57.9 |
| 76° | 49.4 | 54.3 | 55.2 | 56.7 | 57.1 | 55.8 |
| 76.5° | 47.2 | 52.1 | 53.0 | 54.5 | 54.8 | 53.6 |
| 77° | 45.1 | 49.9 | 50.9 | 52.3 | 52.6 | 51.4 |
| 77.5° | 43.0 | 47.8 | 48.8 | 50.1 | 50.4 | 49.3 |
| 78° | 40.9 | 45.6 | 46.6 | 48.0 | 48.2 | 47.1 |
| 78.5° | 38.8 | 43.5 | 44.5 | 45.7 | 46.0 | 45.0 |
| 79° | 36.7 | 41.3 | 42.3 | 43.6 | 43.8 | 42.8 |
| 79.5° | 34.6 | 39.2 | 40.2 | 41.4 | 41.6 | 40.7 |
| 80° | 32.6 | 37.0 | 38.1 | 39.3 | 39.5 | 38.5 |
| 80.5° | 30.4 | 34.9 | 36.1 | 37.2 | 37.4 | 36.5 |
| 81° | 28.4 | 32.8 | 34.1 | 35.6 | 35.5 | 34.5 |
| 81.5° | 26.3 | 30.8 | 32.0 | 33.3 | 33.3 | 32.4 |
| 82° | 24.4 | 28.7 | 29.9 | 31.1 | 31.1 | 30.3 |
| 82.5° | 22.3 | 26.6 | 27.8 | 28.9 | 28.9 | 28.3 |
| 83° | 20.3 | 24.6 | 25.8 | 26.7 | 26.7 | 26.2 |
| 83.5° | 18.3 | 22.5 | 23.8 | 24.6 | 24.7 | 24.2 |
| 84° | 16.4 | 20.6 | 21.8 | 22.6 | 22.6 | 22.2 |
| 84.5° | 14.4 | 18.6 | 19.8 | 20.6 | 20.5 | 20.2 |
| 85° | 12.5 | 16.6 | 17.8 | 18.6 | 18.5 | 18.2 |
| 85.5° | 10.6 | 14.6 | 15.8 | 16.6 | 16.5 | 16.2 |
| 86° | 8.8 | 12.7 | 13.9 | 14.6 | 14.5 | 14.3 |
| 86.5° | 6.9 | 10.8 | 12.0 | 12.6 | 12.6 | 12.4 |
| 87° | 5.0 | 9.0 | 10.1 | 10.7 | 10.7 | 10.4 |
| 87.5° | 3.1 | 7.1 | 8.2 | 8.8 | 8.8 | 8.5 |
| 88° | 1.5 | 5.2 | 6.3 | 6.8 | 6.8 | 6.6 |
| 88.5° | 0.5 | 3.4 | 4.4 | 4.9 | 5.0 | 4.8 |
| 89° | 0.1 | 2.5 | 3.5 | 3.1 | 3.2 | 2.9 |
| 89.5° | 0.1 | 1.7 | 2.7 | 2.3 | 2.4 | 2.2 |

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 90° | 0.1 | 0.9 | 1.8 | 1.6 | 1.6 | 1.5 |
| 90.5° | 0.1 | 0.1 | 0.9 | 0.8 | 0.8 | 0.8 |
| 91° | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 |
| 91.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 |
| 92° | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 |
| 92.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 |
| 93° | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 |
| 93.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 |
| 94° | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 |
| 94.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 95° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 96° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 96.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 97° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 97.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 98° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 98.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 99° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 99.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 100° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 100.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 101° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 101.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 102° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 102.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 103° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 103.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 104° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 104.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 105° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 105.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 106° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 106.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 107° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 107.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 108° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 108.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 109° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 109.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 110° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 110.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 111° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 111.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 112° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 112.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 113° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 113.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 114° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 114.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 115° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 115.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 116° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 116.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 117° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 117.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 118° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 118.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 119° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 119.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 120° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 120.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 121° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 121.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 122° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 122.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 123° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 123.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 124° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 124.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 125° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 125.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 126° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 126.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 127° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 127.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 128° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 128.5° | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 129° | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 129.5° | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 130° | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 130.5° | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 131° | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 131.5° | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 132° | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 132.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| 133° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| 133.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 |
| 134° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 134.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 135° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 135.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 136° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 136.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 137° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 137.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 138° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 138.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 139° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 139.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 140° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 140.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 141° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 141.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 142° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 142.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 143° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 143.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 144° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 144.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 145° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 145.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 146° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 146.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 147° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 147.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 148° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 148.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 149° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 149.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 150° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 150.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 151° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 151.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 152° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 152.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 153° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 153.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 154° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 154.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 155° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 155.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 156° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 156.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 157° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |

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

Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 157.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 158° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 158.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 159° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 159.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 160° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 160.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 161° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 161.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 162° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 162.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 163° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 163.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 164° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 164.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 165° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 165.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 166° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 166.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 167° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 167.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 168° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 168.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 169° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 169.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 170° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 170.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 171° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 171.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 172° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 172.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 173° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 173.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 174° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 174.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 175° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 175.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 176° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 176.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 177° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 177.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 178° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 178.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 179° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 179.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |

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Scaled Data Report

TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 180° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |

Cooper Lighting Solutions Photometric Lab
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TEST NUMBER: P1596640
CATALOG NUMBER: HLB3SLSFS5-MED-3500K

**CIE UGR TABLE:**

| Reflectances: | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ceiling | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| | Wall | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| | Reference plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 29.64 | 31.27 | 30.01 | 31.59 | 31.91 | 29.45 | 31.08 | 29.81 | 31.40 | 31.71 |
| | 3H | 31.50 | 32.98 | 31.88 | 33.31 | 33.67 | 31.27 | 32.75 | 31.65 | 33.07 | 33.44 |
| | 4H | 32.23 | 33.63 | 32.63 | 33.98 | 34.36 | 31.97 | 33.37 | 32.37 | 33.72 | 34.09 |
| | 6H | 32.82 | 34.11 | 33.23 | 34.47 | 34.87 | 32.51 | 33.81 | 32.93 | 34.17 | 34.57 |
| | 8H | 33.02 | 34.26 | 33.45 | 34.65 | 35.05 | 32.69 | 33.93 | 33.12 | 34.32 | 34.72 |
| | 12H | 33.13 | 34.31 | 33.56 | 34.70 | 35.13 | 32.77 | 33.96 | 33.20 | 34.34 | 34.77 |
| 4H | 2H | 30.29 | 31.68 | 30.69 | 32.03 | 32.41 | 30.10 | 31.49 | 30.50 | 31.84 | 32.22 |
| | 3H | 32.40 | 33.57 | 32.81 | 33.97 | 34.37 | 32.15 | 33.32 | 32.56 | 33.72 | 34.12 |
| | 4H | 33.28 | 34.34 | 33.72 | 34.76 | 35.20 | 33.00 | 34.06 | 33.43 | 34.47 | 34.91 |
| | 6H | 34.02 | 34.95 | 34.47 | 35.39 | 35.85 | 33.69 | 34.61 | 34.14 | 35.05 | 35.51 |
| | 8H | 34.29 | 35.16 | 34.75 | 35.60 | 36.07 | 33.92 | 34.79 | 34.38 | 35.23 | 35.70 |
| | 12H | 34.46 | 35.25 | 34.95 | 35.72 | 36.19 | 34.06 | 34.84 | 34.54 | 35.32 | 35.79 |
| 8H | 4H | 33.64 | 34.51 | 34.10 | 34.95 | 35.42 | 33.35 | 34.22 | 33.82 | 34.67 | 35.13 |
| | 6H | 34.53 | 35.26 | 35.03 | 35.75 | 36.22 | 34.18 | 34.91 | 34.68 | 35.40 | 35.87 |
| | 8H | 34.90 | 35.55 | 35.41 | 36.06 | 36.55 | 34.51 | 35.16 | 35.02 | 35.66 | 36.15 |
| | 12H | 35.19 | 35.76 | 35.69 | 36.25 | 36.81 | 34.74 | 35.31 | 35.25 | 35.81 | 36.37 |
| 12H | 4H | 33.69 | 34.47 | 34.17 | 34.95 | 35.42 | 33.40 | 34.18 | 33.88 | 34.66 | 35.13 |
| | 6H | 34.61 | 35.26 | 35.12 | 35.77 | 36.26 | 34.26 | 34.91 | 34.77 | 35.42 | 35.91 |
| | 8H | 35.05 | 35.63 | 35.56 | 36.12 | 36.68 | 34.65 | 35.22 | 35.16 | 35.72 | 36.28 |

END OF REPORT