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: P1596597

Luminaire Tested: HLB2LSFS5-MED-5000K

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: | P1596597 |
| | TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ( A2600263A001) |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Issue Date: | 10/7/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | HALO |
| Catalog Number: | HLB2LSFS5-MED-5000K |
| Description: | HLB2 2" ROUND SLIM LOW GLARE CANLESS LED DOWNLIGHT |
| Light Source: | 5000K CCT, 90 CRI LEDS |
| Ballast/Driver: | - |

**Summary**

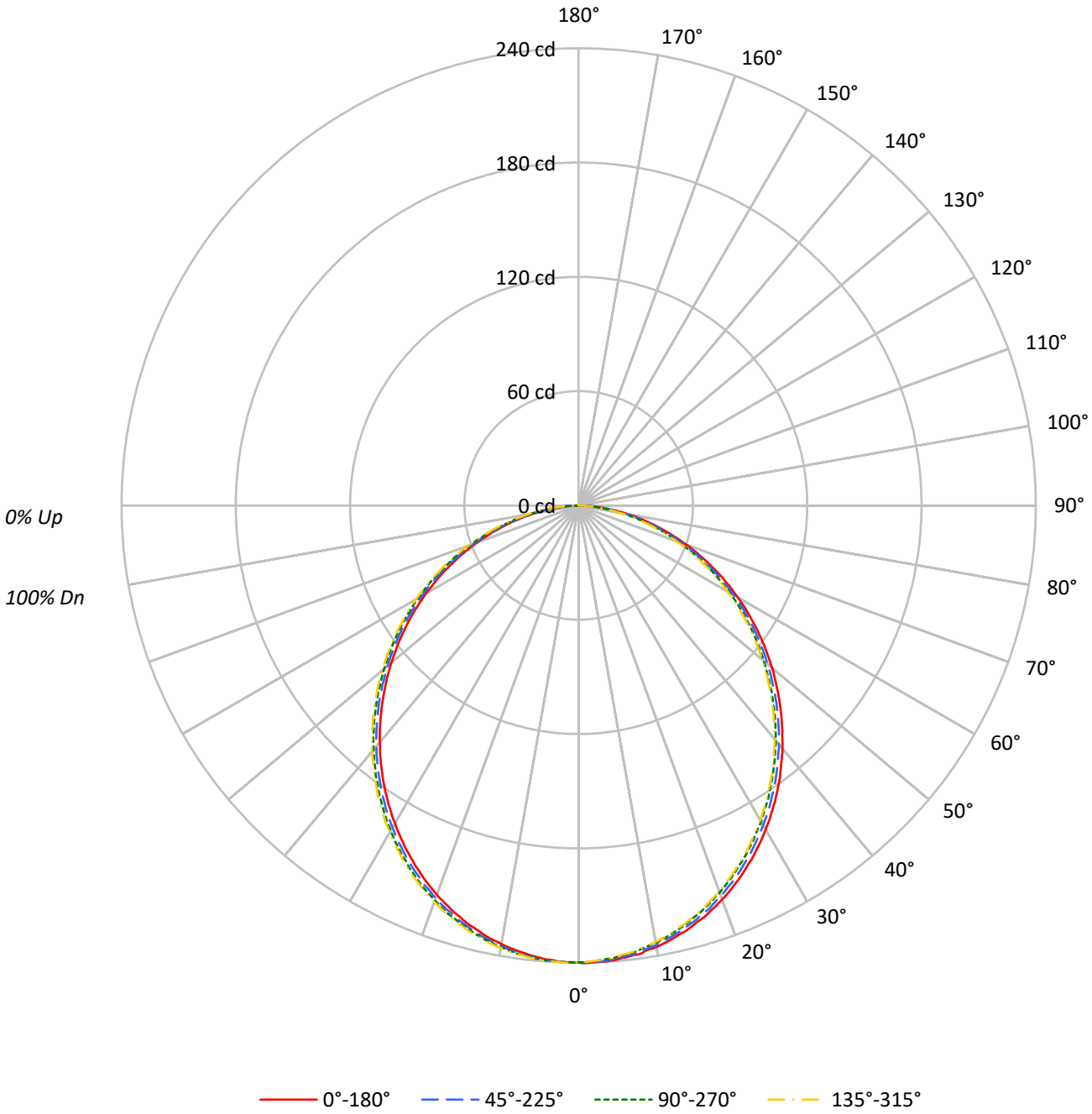
| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 640.0 lumens |
| Efficiency: | N/A |
| Efficacy: | 94.1 lumens/watt |
| Spacing Criteria (0/90/45): | 1.21 / 1.21 / 1.32 |
| Luminous Opening: | Rectangular (W 0.12' x L: 0.12' x H: 0') |
| CIE Type: | Direct |
| Input Watts (W): | 6.8 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | NR |
| Total Harmonic Distortion (THDi): | NR |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 24 FT |

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TEST NUMBER: P1596597
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## Luminous Intensity Polar Plot



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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 | 100 | 96 | 106 | 102 | 98 | 94 | 98 | 94 | 91 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 76 | 82 | 78 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 61 | 55 | 67 | 60 | 54 | 65 | 59 | 54 | 63 | 57 | 53 | 51 |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 56 | 51 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 39 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 30 |
| 9 | 57 | 44 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

## AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|---|---|---|---|---|
| 0° | 165334 | 165334 | 165334 | 165334 |
| 5° | 165274 | 164444 | 164721 | 165274 |
| 10° | 164666 | 163058 | 163477 | 164666 |
| 15° | 163250 | 161039 | 161823 | 163535 |
| 20° | 161429 | 158570 | 159450 | 161796 |
| 25° | 158938 | 155594 | 156582 | 159698 |
| 30° | 156229 | 152411 | 153286 | 156865 |
| 35° | 153058 | 148601 | 149947 | 153983 |
| 40° | 149731 | 144785 | 146044 | 150540 |
| 45° | 145843 | 140485 | 141849 | 146720 |
| 50° | 142003 | 135895 | 137502 | 142754 |
| 55° | 137760 | 131394 | 132835 | 138841 |
| 60° | 132956 | 126205 | 127445 | 134058 |
| 65° | 127470 | 119972 | 121276 | 128448 |
| 70° | 121052 | 112190 | 113801 | 121657 |
| 75° | 113387 | 102740 | 104337 | 113387 |
| 80° | 103940 | 90055 | 91641 | 103146 |
| 85° | 87736 | 67976 | 67185 | 86155 |

## MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 292.5°
Vertical Angle: 45°
Luminance: 148474 cd/sqm

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**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 22.6 | 3.5 |
| 10°-20° | 64.2 | 10.0 |
| 20°-30° | 95.6 | 14.9 |
| 30°-40° | 112.6 | 17.6 |
| 40°-50° | 113.8 | 17.8 |
| 50°-60° | 100.6 | 15.7 |
| 60°-70° | 75.5 | 11.8 |
| 70°-80° | 43.2 | 6.7 |
| 80°-90° | 11.4 | 1.8 |
| 90°-100° | 0.0 | 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° | 182.4 | 28.5 |
| 0°-40° | 295.0 | 46.1 |
| 0°-60° | 509.4 | 79.6 |
| 0°-90° | 639.4 | 99.9 |
| 90°-120° | 0.2 | 0.0 |
| 90°-150° | 0.4 | 0.1 |
| 90°-180° | 1.0 | 0.2 |
| 0°-180° | 640.0 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | 90° | 180° | 270° | 360° | Flux |
|---|---|---|---|---|---|---|
| 0° | 240 | 240 | 240 | 240 | 240 | |
| 5° | 239 | 238 | 238 | 239 | 239 | 23 |
| 15° | 229 | 226 | 227 | 229 | 229 | 65 |
| 25° | 209 | 205 | 206 | 210 | 209 | 96 |
| 35° | 182 | 177 | 178 | 183 | 182 | 114 |
| 45° | 150 | 144 | 146 | 151 | 150 | 115 |
| 55° | 115 | 109 | 111 | 116 | 115 | 102 |
| 65° | 78 | 74 | 74 | 79 | 78 | 77 |
| 75° | 43 | 39 | 39 | 43 | 43 | 45 |
| 85° | 11 | 9 | 8 | 11 | 11 | 12 |
| 90° | 0 | 0 | 0 | 1 | 0 | 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: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 240.0 | 240.0 | 240.0 | 240.0 | 240.0 | 240.0 | 240.0 | 240.0 | 240.0 | 240.0 | 240.0 |
| 0.5° | 240.2 | 240.2 | 240.3 | 240.1 | 239.8 | 239.6 | 239.9 | 239.8 | 240.0 | 240.2 | 240.1 |
| 1° | 240.2 | 240.4 | 240.1 | 239.9 | 239.7 | 239.5 | 239.6 | 239.8 | 239.9 | 240.3 | 240.0 |
| 1.5° | 240.2 | 240.2 | 239.8 | 239.8 | 239.6 | 239.3 | 239.4 | 239.7 | 239.9 | 240.1 | 240.1 |
| 2° | 240.0 | 239.9 | 239.7 | 239.8 | 239.4 | 239.1 | 239.3 | 239.4 | 239.8 | 239.8 | 240.0 |
| 2.5° | 239.9 | 239.9 | 239.7 | 239.7 | 239.1 | 239.0 | 239.0 | 239.2 | 239.7 | 239.6 | 239.8 |
| 3° | 239.8 | 239.8 | 239.6 | 239.4 | 238.9 | 238.7 | 238.7 | 239.1 | 239.3 | 239.5 | 239.8 |
| 3.5° | 239.8 | 239.5 | 239.4 | 238.9 | 238.5 | 238.5 | 238.4 | 238.9 | 239.0 | 239.6 | 239.5 |
| 4° | 239.6 | 239.2 | 239.1 | 238.8 | 238.4 | 238.3 | 238.3 | 238.5 | 239.0 | 239.4 | 239.3 |
| 4.5° | 239.4 | 239.1 | 238.8 | 238.7 | 238.3 | 237.9 | 238.1 | 238.0 | 238.7 | 239.0 | 239.1 |
| 5° | 239.0 | 239.0 | 238.5 | 238.5 | 237.8 | 237.3 | 237.6 | 237.7 | 238.2 | 238.6 | 238.9 |
| 5.5° | 238.7 | 238.6 | 238.2 | 237.9 | 237.4 | 237.0 | 237.0 | 237.6 | 238.0 | 238.3 | 238.6 |
| 6° | 238.5 | 238.0 | 237.8 | 237.5 | 236.9 | 236.7 | 236.7 | 237.2 | 237.6 | 238.0 | 238.3 |
| 6.5° | 238.1 | 237.8 | 237.5 | 237.2 | 236.6 | 236.2 | 236.4 | 236.7 | 237.1 | 237.7 | 238.0 |
| 7° | 237.8 | 237.7 | 237.3 | 236.8 | 236.3 | 235.7 | 236.0 | 236.4 | 236.6 | 237.2 | 237.5 |
| 7.5° | 237.8 | 237.2 | 236.9 | 236.4 | 235.9 | 235.2 | 235.4 | 235.8 | 236.3 | 236.8 | 237.1 |
| 8° | 237.4 | 236.6 | 236.2 | 235.8 | 235.2 | 234.8 | 234.9 | 235.4 | 235.9 | 236.4 | 236.8 |
| 8.5° | 236.5 | 236.3 | 235.6 | 235.3 | 234.5 | 234.1 | 234.5 | 234.8 | 235.4 | 236.0 | 236.4 |
| 9° | 236.0 | 235.8 | 235.2 | 234.9 | 234.1 | 233.7 | 233.9 | 234.2 | 235.0 | 235.5 | 235.9 |
| 9.5° | 235.8 | 235.2 | 234.9 | 234.4 | 233.6 | 233.1 | 233.2 | 233.7 | 234.4 | 234.9 | 235.3 |
| 10° | 235.4 | 234.7 | 234.4 | 233.8 | 233.1 | 232.3 | 232.6 | 233.2 | 233.7 | 234.3 | 234.8 |
| 10.5° | 234.8 | 234.3 | 233.6 | 233.0 | 232.5 | 231.7 | 232.0 | 232.4 | 233.1 | 233.8 | 234.3 |
| 11° | 234.2 | 233.7 | 232.9 | 232.5 | 231.9 | 231.1 | 231.4 | 231.8 | 232.6 | 233.2 | 233.8 |
| 11.5° | 233.6 | 233.1 | 232.3 | 232.0 | 231.2 | 230.4 | 230.7 | 231.2 | 232.0 | 232.6 | 233.0 |
| 12° | 233.0 | 232.4 | 231.8 | 231.3 | 230.4 | 229.6 | 230.0 | 230.5 | 231.4 | 231.9 | 232.6 |
| 12.5° | 232.4 | 231.7 | 231.0 | 230.5 | 229.7 | 228.8 | 229.2 | 229.8 | 230.6 | 231.3 | 231.9 |
| 13° | 231.7 | 231.2 | 230.4 | 229.7 | 229.0 | 228.1 | 228.4 | 229.1 | 229.8 | 230.7 | 231.2 |
| 13.5° | 231.0 | 230.5 | 229.8 | 229.0 | 228.2 | 227.5 | 227.5 | 228.3 | 229.1 | 229.9 | 230.5 |
| 14° | 230.5 | 229.8 | 228.9 | 228.3 | 227.5 | 226.7 | 226.9 | 227.4 | 228.3 | 229.0 | 229.9 |
| 14.5° | 229.8 | 229.0 | 228.0 | 227.6 | 226.7 | 225.6 | 226.2 | 226.6 | 227.7 | 228.3 | 229.0 |
| 15° | 228.9 | 228.2 | 227.3 | 226.7 | 225.8 | 224.7 | 225.2 | 225.9 | 226.9 | 227.6 | 228.2 |
| 15.5° | 228.0 | 227.5 | 226.6 | 225.8 | 224.8 | 224.0 | 224.3 | 225.2 | 226.0 | 226.8 | 227.5 |
| 16° | 227.1 | 226.6 | 225.7 | 224.9 | 224.0 | 223.2 | 223.4 | 224.2 | 225.0 | 225.9 | 226.7 |
| 16.5° | 226.6 | 225.7 | 224.7 | 224.0 | 223.3 | 222.2 | 222.6 | 223.3 | 224.2 | 225.0 | 225.8 |
| 17° | 225.8 | 224.8 | 223.8 | 223.2 | 222.3 | 221.2 | 221.7 | 222.3 | 223.3 | 224.2 | 224.8 |
| 17.5° | 224.9 | 223.9 | 223.2 | 222.4 | 221.3 | 220.3 | 220.7 | 221.4 | 222.4 | 223.4 | 224.0 |
| 18° | 223.8 | 223.1 | 222.3 | 221.4 | 220.4 | 219.4 | 219.6 | 220.6 | 221.3 | 222.5 | 223.2 |
| 18.5° | 223.0 | 222.1 | 221.2 | 220.4 | 219.4 | 218.2 | 218.5 | 219.5 | 220.4 | 221.5 | 222.3 |
| 19° | 222.1 | 221.2 | 220.1 | 219.4 | 218.3 | 217.2 | 217.7 | 218.5 | 219.5 | 220.3 | 221.4 |
| 19.5° | 221.1 | 220.1 | 219.1 | 218.4 | 217.2 | 216.2 | 216.7 | 217.5 | 218.6 | 219.4 | 220.4 |
| 20° | 220.2 | 219.2 | 218.2 | 217.3 | 216.3 | 215.1 | 215.5 | 216.5 | 217.5 | 218.5 | 219.4 |
| 20.5° | 219.2 | 218.3 | 217.2 | 216.2 | 215.2 | 214.0 | 214.4 | 215.3 | 216.4 | 217.5 | 218.3 |
| 21° | 218.2 | 217.1 | 216.0 | 215.3 | 214.1 | 212.9 | 213.4 | 214.3 | 215.3 | 216.5 | 217.1 |
| 21.5° | 217.1 | 216.2 | 214.9 | 214.2 | 212.9 | 211.9 | 212.3 | 213.0 | 214.3 | 215.3 | 216.2 |
| 22° | 216.0 | 215.0 | 213.9 | 212.9 | 211.8 | 210.7 | 211.1 | 212.0 | 213.2 | 214.1 | 215.3 |

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TEST NUMBER: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 22.5° | 214.9 | 213.8 | 212.9 | 211.7 | 210.8 | 209.4 | 209.9 | 210.9 | 212.1 | 213.1 | 214.1 |
| 23° | 213.9 | 212.7 | 211.7 | 210.7 | 209.6 | 208.2 | 208.8 | 209.7 | 210.8 | 212.0 | 212.9 |
| 23.5° | 212.7 | 211.7 | 210.5 | 209.5 | 208.3 | 207.1 | 207.6 | 208.5 | 209.6 | 210.8 | 211.7 |
| 24° | 211.6 | 210.6 | 209.4 | 208.4 | 207.0 | 205.9 | 206.4 | 207.3 | 208.4 | 209.6 | 210.7 |
| 24.5° | 210.4 | 209.3 | 208.1 | 207.3 | 205.9 | 204.7 | 205.2 | 206.0 | 207.4 | 208.5 | 209.5 |
| 25° | 209.1 | 208.1 | 206.7 | 206.0 | 204.7 | 203.5 | 203.8 | 204.9 | 206.0 | 207.3 | 208.3 |
| 25.5° | 207.9 | 206.8 | 205.6 | 204.7 | 203.5 | 202.3 | 202.6 | 203.6 | 204.7 | 206.1 | 207.1 |
| 26° | 206.9 | 205.7 | 204.5 | 203.5 | 202.1 | 200.9 | 201.5 | 202.3 | 203.5 | 204.6 | 205.9 |
| 26.5° | 205.7 | 204.4 | 203.2 | 202.1 | 200.8 | 199.5 | 200.1 | 201.0 | 202.3 | 203.5 | 204.6 |
| 27° | 204.3 | 203.0 | 201.7 | 200.8 | 199.7 | 198.2 | 198.7 | 199.8 | 201.0 | 202.5 | 203.3 |
| 27.5° | 203.0 | 201.9 | 200.4 | 199.7 | 198.4 | 196.9 | 197.4 | 198.4 | 199.6 | 201.0 | 201.9 |
| 28° | 201.8 | 200.6 | 199.1 | 198.4 | 196.8 | 195.5 | 196.2 | 197.0 | 198.3 | 199.5 | 200.8 |
| 28.5° | 200.4 | 199.3 | 197.9 | 196.8 | 195.4 | 194.2 | 194.9 | 195.7 | 197.0 | 198.2 | 199.6 |
| 29° | 199.0 | 197.9 | 196.6 | 195.5 | 194.1 | 192.9 | 193.4 | 194.4 | 195.7 | 197.0 | 198.3 |
| 29.5° | 197.7 | 196.4 | 195.2 | 194.3 | 192.9 | 191.5 | 191.9 | 193.1 | 194.3 | 195.7 | 196.7 |
| 30° | 196.4 | 195.1 | 193.7 | 192.9 | 191.6 | 190.0 | 190.7 | 191.8 | 192.7 | 194.2 | 195.4 |
| 30.5° | 195.0 | 193.8 | 192.4 | 191.4 | 190.1 | 188.6 | 189.3 | 190.2 | 191.5 | 192.9 | 194.1 |
| 31° | 193.7 | 192.4 | 191.0 | 190.0 | 188.5 | 187.2 | 187.8 | 188.7 | 190.2 | 191.5 | 192.7 |
| 31.5° | 192.2 | 191.1 | 189.6 | 188.7 | 187.0 | 185.9 | 186.3 | 187.3 | 188.6 | 190.0 | 191.1 |
| 32° | 190.8 | 189.7 | 188.2 | 187.1 | 185.6 | 184.3 | 184.9 | 185.9 | 187.2 | 188.5 | 189.8 |
| 32.5° | 189.4 | 188.1 | 186.8 | 185.6 | 184.3 | 182.8 | 183.4 | 184.4 | 185.8 | 187.2 | 188.5 |
| 33° | 187.9 | 186.6 | 185.2 | 184.2 | 182.9 | 181.3 | 181.9 | 182.9 | 184.3 | 185.7 | 186.9 |
| 33.5° | 186.6 | 185.2 | 183.7 | 182.8 | 181.2 | 179.9 | 180.4 | 181.4 | 182.9 | 184.2 | 185.4 |
| 34° | 185.1 | 183.7 | 182.3 | 181.4 | 179.7 | 178.3 | 178.9 | 179.8 | 181.3 | 182.7 | 183.9 |
| 34.5° | 183.6 | 182.3 | 180.9 | 179.8 | 178.2 | 176.7 | 177.4 | 178.3 | 179.8 | 181.2 | 182.5 |
| 35° | 182.0 | 180.7 | 179.3 | 178.2 | 176.7 | 175.3 | 175.9 | 176.9 | 178.3 | 179.6 | 181.1 |
| 35.5° | 180.5 | 179.2 | 177.8 | 176.6 | 175.2 | 173.8 | 174.4 | 175.4 | 176.8 | 178.2 | 179.4 |
| 36° | 179.1 | 177.6 | 176.2 | 175.0 | 173.7 | 172.1 | 172.8 | 173.8 | 175.2 | 176.7 | 177.8 |
| 36.5° | 177.6 | 176.1 | 174.7 | 173.6 | 172.1 | 170.5 | 171.3 | 172.2 | 173.6 | 175.1 | 176.2 |
| 37° | 175.9 | 174.6 | 173.1 | 172.2 | 170.6 | 169.0 | 169.6 | 170.6 | 172.0 | 173.5 | 174.8 |
| 37.5° | 174.3 | 173.1 | 171.5 | 170.6 | 169.0 | 167.5 | 168.1 | 169.1 | 170.5 | 171.9 | 173.2 |
| 38° | 172.7 | 171.5 | 169.9 | 168.8 | 167.3 | 165.9 | 166.4 | 167.5 | 169.0 | 170.3 | 171.7 |
| 38.5° | 171.2 | 169.8 | 168.3 | 167.2 | 165.7 | 164.1 | 164.7 | 165.9 | 167.4 | 168.8 | 170.0 |
| 39° | 169.6 | 168.2 | 166.7 | 165.8 | 164.1 | 162.5 | 163.2 | 164.3 | 165.7 | 167.2 | 168.5 |
| 39.5° | 168.1 | 166.6 | 165.2 | 164.1 | 162.6 | 160.9 | 161.7 | 162.7 | 164.0 | 165.5 | 166.8 |
| 40° | 166.5 | 164.9 | 163.6 | 162.4 | 161.0 | 159.4 | 160.0 | 161.0 | 162.4 | 163.9 | 165.1 |
| 40.5° | 164.8 | 163.4 | 161.9 | 160.7 | 159.3 | 157.8 | 158.3 | 159.3 | 160.8 | 162.2 | 163.4 |
| 41° | 163.0 | 161.7 | 160.3 | 159.1 | 157.6 | 156.0 | 156.6 | 157.6 | 159.1 | 160.6 | 161.9 |
| 41.5° | 161.3 | 160.2 | 158.7 | 157.5 | 156.0 | 154.4 | 154.9 | 156.0 | 157.5 | 158.8 | 160.3 |
| 42° | 159.8 | 158.3 | 157.0 | 155.8 | 154.4 | 152.7 | 153.3 | 154.4 | 155.8 | 157.2 | 158.6 |
| 42.5° | 158.2 | 156.6 | 155.2 | 154.2 | 152.7 | 151.1 | 151.7 | 152.7 | 154.2 | 155.7 | 156.8 |
| 43° | 156.5 | 155.0 | 153.6 | 152.6 | 151.0 | 149.4 | 150.0 | 150.9 | 152.4 | 153.9 | 155.2 |
| 43.5° | 154.7 | 153.4 | 151.9 | 150.9 | 149.3 | 147.7 | 148.3 | 149.2 | 150.7 | 152.1 | 153.4 |
| 44° | 153.1 | 151.7 | 150.2 | 149.2 | 147.5 | 145.9 | 146.6 | 147.5 | 149.1 | 150.3 | 151.8 |
| 44.5° | 151.5 | 149.9 | 148.4 | 147.4 | 145.8 | 144.3 | 144.8 | 145.8 | 147.3 | 148.7 | 150.1 |

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TEST NUMBER: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45° | 149.7 | 148.2 | 146.8 | 145.7 | 144.2 | 142.5 | 143.1 | 144.2 | 145.6 | 147.1 | 148.4 |
| 45.5° | 148.1 | 146.5 | 145.1 | 143.9 | 142.5 | 140.8 | 141.5 | 142.5 | 143.8 | 145.3 | 146.7 |
| 46° | 146.3 | 144.8 | 143.4 | 142.3 | 140.8 | 139.1 | 139.8 | 140.7 | 142.2 | 143.5 | 144.9 |
| 46.5° | 144.6 | 143.1 | 141.6 | 140.6 | 139.0 | 137.4 | 138.0 | 138.9 | 140.4 | 141.8 | 143.1 |
| 47° | 142.9 | 141.4 | 139.8 | 138.9 | 137.3 | 135.7 | 136.3 | 137.2 | 138.8 | 140.0 | 141.5 |
| 47.5° | 141.1 | 139.7 | 138.1 | 137.1 | 135.5 | 134.0 | 134.6 | 135.4 | 137.0 | 138.3 | 139.8 |
| 48° | 139.3 | 137.9 | 136.4 | 135.5 | 133.7 | 132.2 | 132.8 | 133.8 | 135.3 | 136.5 | 137.9 |
| 48.5° | 137.6 | 136.1 | 134.7 | 133.7 | 132.0 | 130.5 | 131.1 | 132.0 | 133.5 | 134.9 | 136.1 |
| 49° | 136.0 | 134.3 | 133.0 | 132.0 | 130.4 | 128.7 | 129.3 | 130.2 | 131.8 | 133.1 | 134.4 |
| 49.5° | 134.3 | 132.7 | 131.2 | 130.3 | 128.6 | 127.0 | 127.7 | 128.4 | 130.1 | 131.5 | 132.7 |
| 50° | 132.5 | 131.0 | 129.5 | 128.6 | 126.8 | 125.2 | 125.9 | 126.6 | 128.3 | 129.6 | 130.9 |
| 50.5° | 130.6 | 129.3 | 127.7 | 126.9 | 125.1 | 123.5 | 124.1 | 125.0 | 126.6 | 127.7 | 129.2 |
| 51° | 128.9 | 127.4 | 126.0 | 125.1 | 123.4 | 121.7 | 122.3 | 123.3 | 124.7 | 126.0 | 127.4 |
| 51.5° | 127.2 | 125.7 | 124.3 | 123.1 | 121.7 | 120.0 | 120.6 | 121.6 | 123.0 | 124.4 | 125.6 |
| 52° | 125.4 | 124.0 | 122.5 | 121.4 | 119.9 | 118.2 | 118.9 | 119.8 | 121.2 | 122.7 | 123.8 |
| 52.5° | 123.7 | 122.2 | 120.7 | 119.8 | 118.2 | 116.5 | 117.1 | 118.1 | 119.5 | 120.9 | 122.1 |
| 53° | 121.9 | 120.4 | 119.0 | 118.0 | 116.4 | 114.7 | 115.3 | 116.3 | 117.6 | 119.1 | 120.4 |
| 53.5° | 120.0 | 118.7 | 117.3 | 116.2 | 114.7 | 112.9 | 113.4 | 114.6 | 115.9 | 117.3 | 118.5 |
| 54° | 118.2 | 116.9 | 115.5 | 114.4 | 112.9 | 111.1 | 111.6 | 112.9 | 114.1 | 115.5 | 116.7 |
| 54.5° | 116.4 | 115.1 | 113.7 | 112.6 | 111.1 | 109.4 | 109.9 | 111.1 | 112.3 | 113.7 | 115.1 |
| 55° | 114.7 | 113.4 | 112.0 | 110.9 | 109.4 | 107.5 | 108.2 | 109.2 | 110.6 | 112.0 | 113.3 |
| 55.5° | 112.9 | 111.6 | 110.2 | 109.1 | 107.6 | 105.8 | 106.4 | 107.4 | 108.7 | 110.3 | 111.4 |
| 56° | 111.0 | 109.7 | 108.4 | 107.3 | 105.9 | 104.0 | 104.7 | 105.6 | 106.9 | 108.4 | 109.5 |
| 56.5° | 109.2 | 107.9 | 106.6 | 105.5 | 104.1 | 102.2 | 102.8 | 103.9 | 105.2 | 106.6 | 107.8 |
| 57° | 107.4 | 106.2 | 104.9 | 103.8 | 102.4 | 100.4 | 101.0 | 102.1 | 103.4 | 104.7 | 106.1 |
| 57.5° | 105.6 | 104.5 | 103.1 | 102.0 | 100.4 | 98.7 | 99.2 | 100.3 | 101.5 | 103.0 | 104.2 |
| 58° | 103.8 | 102.6 | 101.4 | 100.1 | 98.7 | 96.8 | 97.4 | 98.5 | 99.7 | 101.2 | 102.4 |
| 58.5° | 102.0 | 100.8 | 99.6 | 98.4 | 97.0 | 95.1 | 95.7 | 96.7 | 97.9 | 99.4 | 100.6 |
| 59° | 100.2 | 99.0 | 97.8 | 96.5 | 95.2 | 93.3 | 93.9 | 94.9 | 96.1 | 97.6 | 98.8 |
| 59.5° | 98.3 | 97.1 | 95.9 | 94.7 | 93.3 | 91.5 | 92.1 | 93.1 | 94.3 | 95.7 | 96.9 |
| 60° | 96.5 | 95.4 | 94.1 | 92.9 | 91.6 | 89.7 | 90.3 | 91.3 | 92.5 | 93.9 | 95.1 |
| 60.5° | 94.6 | 93.6 | 92.2 | 91.2 | 89.8 | 87.9 | 88.4 | 89.5 | 90.7 | 92.1 | 93.3 |
| 61° | 92.8 | 91.7 | 90.5 | 89.4 | 88.0 | 86.1 | 86.6 | 87.7 | 88.8 | 90.3 | 91.5 |
| 61.5° | 91.1 | 89.9 | 88.7 | 87.5 | 86.2 | 84.3 | 84.8 | 86.0 | 87.1 | 88.4 | 89.7 |
| 62° | 89.2 | 88.1 | 86.8 | 85.8 | 84.4 | 82.5 | 83.1 | 84.0 | 85.3 | 86.7 | 87.8 |
| 62.5° | 87.4 | 86.3 | 85.0 | 84.0 | 82.5 | 80.7 | 81.3 | 82.3 | 83.5 | 84.7 | 85.9 |
| 63° | 85.5 | 84.4 | 83.2 | 82.2 | 80.7 | 78.9 | 79.4 | 80.5 | 81.7 | 82.9 | 84.0 |
| 63.5° | 83.7 | 82.6 | 81.3 | 80.5 | 78.9 | 77.1 | 77.6 | 78.7 | 79.9 | 81.0 | 82.2 |
| 64° | 81.9 | 80.7 | 79.6 | 78.6 | 77.1 | 75.3 | 75.8 | 76.8 | 78.0 | 79.2 | 80.4 |
| 64.5° | 80.1 | 78.9 | 77.7 | 76.8 | 75.3 | 73.5 | 74.0 | 75.0 | 76.2 | 77.4 | 78.5 |
| 65° | 78.2 | 77.1 | 75.9 | 75.0 | 73.6 | 71.6 | 72.2 | 73.2 | 74.4 | 75.6 | 76.7 |
| 65.5° | 76.4 | 75.3 | 74.1 | 73.3 | 71.8 | 69.8 | 70.4 | 71.3 | 72.6 | 73.8 | 74.8 |
| 66° | 74.5 | 73.4 | 72.3 | 71.5 | 70.0 | 68.0 | 68.6 | 69.5 | 70.8 | 72.0 | 73.0 |
| 66.5° | 72.7 | 71.6 | 70.4 | 69.6 | 68.1 | 66.3 | 66.7 | 67.7 | 68.9 | 70.1 | 71.2 |
| 67° | 70.9 | 69.7 | 68.7 | 67.9 | 66.3 | 64.5 | 64.9 | 66.0 | 67.1 | 68.2 | 69.3 |

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

Scaled Data Report

TEST NUMBER: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67.5° | 69.0 | 67.9 | 66.9 | 66.1 | 64.6 | 62.7 | 63.2 | 64.1 | 65.4 | 66.4 | 67.5 |
| 68° | 67.3 | 66.2 | 65.0 | 64.3 | 62.8 | 60.9 | 61.4 | 62.3 | 63.6 | 64.6 | 65.6 |
| 68.5° | 65.5 | 64.3 | 63.2 | 62.5 | 60.9 | 59.1 | 59.6 | 60.5 | 61.8 | 62.8 | 63.8 |
| 69° | 63.7 | 62.5 | 61.5 | 60.8 | 59.2 | 57.4 | 57.9 | 58.7 | 60.0 | 61.0 | 62.0 |
| 69.5° | 61.9 | 60.7 | 59.7 | 59.0 | 57.5 | 55.6 | 56.1 | 56.9 | 58.2 | 59.2 | 60.2 |
| 70° | 60.1 | 59.0 | 57.9 | 57.2 | 55.7 | 53.9 | 54.4 | 55.2 | 56.5 | 57.4 | 58.4 |
| 70.5° | 58.3 | 57.2 | 56.1 | 55.5 | 53.9 | 52.2 | 52.6 | 53.4 | 54.8 | 55.7 | 56.6 |
| 71° | 56.5 | 55.4 | 54.4 | 53.8 | 52.1 | 50.4 | 50.9 | 51.7 | 53.0 | 53.9 | 54.9 |
| 71.5° | 54.8 | 53.7 | 52.7 | 52.0 | 50.5 | 48.7 | 49.2 | 50.0 | 51.2 | 52.1 | 53.0 |
| 72° | 53.0 | 51.9 | 50.9 | 50.3 | 48.7 | 47.0 | 47.5 | 48.2 | 49.5 | 50.3 | 51.3 |
| 72.5° | 51.3 | 50.2 | 49.2 | 48.6 | 47.1 | 45.3 | 45.7 | 46.4 | 47.8 | 48.6 | 49.5 |
| 73° | 49.5 | 48.5 | 47.5 | 46.9 | 45.3 | 43.6 | 44.0 | 44.7 | 46.0 | 46.9 | 47.8 |
| 73.5° | 47.8 | 46.8 | 45.8 | 45.2 | 43.6 | 41.9 | 42.3 | 43.0 | 44.3 | 45.2 | 46.1 |
| 74° | 46.1 | 45.1 | 44.1 | 43.5 | 41.9 | 40.3 | 40.7 | 41.3 | 42.6 | 43.4 | 44.3 |
| 74.5° | 44.4 | 43.3 | 42.4 | 41.8 | 40.3 | 38.6 | 39.1 | 39.6 | 40.9 | 41.8 | 42.6 |
| 75° | 42.6 | 41.7 | 40.8 | 40.2 | 38.6 | 37.0 | 37.4 | 38.0 | 39.2 | 40.1 | 41.0 |
| 75.5° | 41.0 | 40.1 | 39.1 | 38.6 | 36.9 | 35.3 | 35.7 | 36.3 | 37.6 | 38.4 | 39.3 |
| 76° | 39.3 | 38.3 | 37.4 | 36.9 | 35.3 | 33.7 | 34.1 | 34.6 | 35.9 | 36.7 | 37.5 |
| 76.5° | 37.6 | 36.7 | 35.8 | 35.3 | 33.7 | 32.1 | 32.5 | 33.0 | 34.3 | 35.1 | 35.8 |
| 77° | 35.9 | 35.1 | 34.7 | 33.7 | 32.0 | 30.5 | 30.9 | 31.4 | 32.6 | 33.4 | 34.3 |
| 77.5° | 34.4 | 33.5 | 32.9 | 32.1 | 30.4 | 28.9 | 29.3 | 29.8 | 31.0 | 31.8 | 32.6 |
| 78° | 32.7 | 31.9 | 31.2 | 30.5 | 28.9 | 27.3 | 27.7 | 28.2 | 29.4 | 30.2 | 30.9 |
| 78.5° | 31.1 | 30.3 | 29.5 | 28.9 | 27.3 | 25.8 | 26.1 | 26.7 | 27.8 | 28.6 | 29.3 |
| 79° | 29.4 | 28.7 | 27.8 | 27.3 | 25.7 | 24.2 | 24.6 | 25.1 | 26.2 | 27.0 | 27.7 |
| 79.5° | 27.8 | 27.0 | 26.3 | 25.8 | 24.2 | 22.7 | 23.1 | 23.5 | 24.7 | 25.4 | 26.2 |
| 80° | 26.2 | 25.5 | 24.7 | 24.2 | 22.7 | 21.2 | 21.5 | 22.0 | 23.1 | 23.9 | 24.6 |
| 80.5° | 24.6 | 23.9 | 23.2 | 22.7 | 21.2 | 19.8 | 20.0 | 20.5 | 21.6 | 22.3 | 23.0 |
| 81° | 23.1 | 22.4 | 21.7 | 21.1 | 19.7 | 18.3 | 18.5 | 19.0 | 20.0 | 20.8 | 21.5 |
| 81.5° | 21.5 | 20.9 | 20.2 | 19.7 | 18.3 | 16.8 | 17.1 | 17.6 | 18.6 | 19.2 | 19.9 |
| 82° | 20.0 | 19.3 | 18.7 | 18.2 | 16.8 | 15.4 | 15.6 | 16.1 | 17.1 | 17.8 | 18.4 |
| 82.5° | 18.5 | 17.9 | 17.2 | 16.7 | 15.3 | 14.0 | 14.2 | 14.6 | 15.6 | 16.3 | 16.9 |
| 83° | 16.9 | 16.4 | 15.8 | 15.2 | 13.9 | 12.6 | 12.8 | 13.3 | 14.1 | 14.8 | 15.5 |
| 83.5° | 15.5 | 14.9 | 14.3 | 13.9 | 12.6 | 11.2 | 11.4 | 11.9 | 12.7 | 13.4 | 14.0 |
| 84° | 14.0 | 13.5 | 12.9 | 12.4 | 11.2 | 9.9 | 10.1 | 10.5 | 11.3 | 11.9 | 12.6 |
| 84.5° | 12.6 | 12.1 | 11.5 | 11.0 | 9.9 | 8.5 | 8.8 | 9.2 | 9.9 | 10.6 | 11.1 |
| 85° | 11.1 | 10.7 | 10.2 | 9.7 | 8.6 | 7.2 | 7.4 | 7.9 | 8.5 | 9.2 | 9.8 |
| 85.5° | 9.7 | 9.3 | 8.8 | 8.3 | 7.3 | 5.9 | 6.1 | 6.5 | 7.2 | 7.8 | 8.4 |
| 86° | 8.4 | 8.0 | 7.5 | 7.0 | 6.0 | 4.6 | 4.8 | 5.2 | 5.8 | 6.5 | 7.1 |
| 86.5° | 7.0 | 6.7 | 6.2 | 5.7 | 4.7 | 3.4 | 3.5 | 3.9 | 4.5 | 5.1 | 5.7 |
| 87° | 5.7 | 5.3 | 4.9 | 4.4 | 3.4 | 2.2 | 2.3 | 2.7 | 3.2 | 3.8 | 4.3 |
| 87.5° | 4.4 | 4.0 | 3.6 | 3.2 | 2.3 | 1.1 | 1.2 | 1.5 | 2.0 | 2.5 | 3.1 |
| 88° | 3.1 | 3.2 | 2.7 | 2.4 | 1.2 | 0.4 | 0.4 | 0.6 | 0.9 | 1.3 | 1.8 |
| 88.5° | 2.4 | 2.4 | 1.8 | 1.6 | 0.4 | 0.1 | 0.1 | 0.1 | 0.2 | 0.4 | 0.8 |
| 89° | 1.6 | 1.6 | 1.0 | 0.8 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 89.5° | 0.8 | 0.8 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

TEST NUMBER: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 90° | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 91° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 91.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 93° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 93.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 94° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 94.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 96° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 96.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 98° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 98.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 99° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 99.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 101° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 101.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 102° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 103° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 103.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 104° | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 104.5° | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 105.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 |
| 106° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 |
| 106.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 |
| 107° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 |
| 107.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 |
| 108° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 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: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**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 | 0.1 |
| 130.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 131° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 131.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 132° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 132.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 133° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 133.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 134° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 134.5° | 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: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 135° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 135.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 136° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 136.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 137° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 137.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 138° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 138.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 139° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 139.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 140° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 140.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 |
| 141° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 |
| 141.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 |
| 142° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 |
| 142.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 |
| 143° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 |
| 143.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 144° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 144.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 145° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 145.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 146° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 146.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 147° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 147.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 148° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 148.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 149° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 149.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 150° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 150.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 151° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 151.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 152° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 152.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 153° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 153.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 154° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 154.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 155° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 155.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 156° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 156.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 157° | 0.1 | 0.1 | 0.1 | 0.1 | 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: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 157.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 158° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 158.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 159° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 159.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 160° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 160.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 161° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 161.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 162° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 162.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 163° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 163.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 164° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 164.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 165° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 165.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 166° | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 166.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 167° | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 167.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 168° | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 168.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 169° | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 169.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 170° | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 170.5° | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 171° | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 |
| 171.5° | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 |
| 172° | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 |
| 172.5° | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 |
| 173° | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 |
| 173.5° | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 174° | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 174.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 175° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 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 | 0.2 | 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 |

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**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 |

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

Scaled Data Report

TEST NUMBER: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 0° | 240.0 | 240.0 | 240.0 | 240.0 | 240.0 | 240.0 |
| 0.5° | 240.1 | 240.0 | 240.0 | 239.8 | 240.2 | 240.2 |
| 1° | *240.2* | *239.9* | *239.9* | *239.9* | *240.2* | *240.2* |
| 1.5° | 240.2 | 239.8 | 240.0 | 240.2 | 240.0 | 240.2 |
| 2° | 240.1 | 239.8 | 239.9 | 240.1 | 240.0 | 240.0 |
| 2.5° | 239.9 | 239.9 | 240.0 | 239.9 | 240.1 | 239.9 |
| 3° | 239.6 | 239.6 | 239.8 | 239.8 | 240.1 | 239.8 |
| 3.5° | 239.6 | 239.6 | 239.8 | 239.7 | 239.6 | 239.8 |
| 4° | 239.6 | 239.6 | 239.6 | 239.6 | 239.5 | 239.6 |
| 4.5° | 239.4 | 239.2 | 239.6 | 239.5 | 239.5 | 239.4 |
| 5° | 239.0 | 239.0 | 239.4 | 239.3 | 239.3 | 239.0 |
| 5.5° | 238.5 | 238.9 | 239.0 | 238.9 | 239.0 | 238.7 |
| 6° | 238.5 | 238.6 | 238.7 | 238.8 | 238.8 | 238.5 |
| 6.5° | 238.2 | 238.1 | 238.6 | 238.5 | 238.4 | 238.1 |
| 7° | 237.7 | 237.8 | 238.4 | 238.2 | 238.1 | 237.8 |
| 7.5° | 237.3 | 237.7 | 238.0 | 237.9 | 237.8 | 237.8 |
| 8° | 237.0 | 237.3 | 237.6 | 237.5 | 237.5 | 237.4 |
| 8.5° | 236.6 | 236.8 | 237.1 | 237.2 | 237.0 | 236.5 |
| 9° | 236.1 | 236.4 | 236.8 | 236.8 | 236.5 | 236.0 |
| 9.5° | 235.7 | 235.9 | 236.4 | 236.3 | 236.2 | 235.8 |
| 10° | 235.2 | 235.4 | 235.9 | 235.8 | 235.8 | 235.4 |
| 10.5° | 234.6 | 235.0 | 235.5 | 235.4 | 235.2 | 234.8 |
| 11° | 234.1 | 234.4 | 235.0 | 235.0 | 234.5 | 234.2 |
| 11.5° | 233.6 | 233.8 | 234.5 | 234.5 | 233.9 | 233.6 |
| 12° | 232.9 | 233.4 | 233.9 | 233.9 | 233.5 | 233.0 |
| 12.5° | 232.1 | 232.7 | 233.4 | 233.2 | 232.9 | 232.4 |
| 13° | 231.5 | 232.0 | 232.7 | 232.4 | 232.3 | 231.7 |
| 13.5° | 231.0 | 231.4 | 232.1 | 231.9 | 231.6 | 231.0 |
| 14° | 230.4 | 230.7 | 231.5 | 231.4 | 230.9 | 230.5 |
| 14.5° | 229.7 | 230.0 | 230.8 | 230.8 | 230.2 | 229.8 |
| 15° | 228.9 | 229.3 | 230.0 | 229.9 | 229.5 | 228.9 |
| 15.5° | 227.9 | 228.7 | 229.4 | 229.1 | 228.6 | 228.0 |
| 16° | 227.1 | 227.8 | 228.7 | 228.5 | 228.0 | 227.1 |
| 16.5° | 226.5 | 226.8 | 227.9 | 227.6 | 227.3 | 226.6 |
| 17° | 225.7 | 226.0 | 227.0 | 226.8 | 226.4 | 225.8 |
| 17.5° | 224.8 | 225.4 | 226.3 | 226.0 | 225.5 | 224.9 |
| 18° | 223.9 | 224.6 | 225.4 | 225.2 | 224.6 | 223.8 |
| 18.5° | 222.9 | 223.5 | 224.6 | 224.3 | 223.7 | 223.0 |
| 19° | 222.0 | 222.6 | 223.6 | 223.4 | 222.8 | 222.1 |
| 19.5° | 221.0 | 221.6 | 222.7 | 222.4 | 221.9 | 221.1 |
| 20° | 220.0 | 220.7 | 221.8 | 221.5 | 221.0 | 220.2 |
| 20.5° | 219.1 | 219.7 | 221.0 | 220.6 | 219.9 | 219.2 |
| 21° | 218.1 | 218.6 | 219.9 | 219.6 | 218.8 | 218.2 |
| 21.5° | 217.0 | 217.7 | 218.8 | 218.6 | 218.0 | 217.1 |
| 22° | 215.8 | 216.8 | 217.7 | 217.6 | 217.0 | 216.0 |

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 22.5° | 214.7 | 215.6 | 216.7 | 216.6 | 215.8 | 214.9 |
| 23° | 213.8 | 214.6 | 215.8 | 215.3 | 214.7 | 213.9 |
| 23.5° | 212.7 | 213.5 | 214.7 | 214.3 | 213.7 | 212.7 |
| 24° | 211.5 | 212.2 | 213.5 | 213.3 | 212.5 | 211.6 |
| 24.5° | 210.3 | 211.1 | 212.3 | 212.2 | 211.3 | 210.4 |
| 25° | 209.1 | 210.1 | 211.2 | 210.9 | 210.1 | 209.1 |
| 25.5° | 207.8 | 208.7 | 210.1 | 209.8 | 209.2 | 207.9 |
| 26° | 206.5 | 207.4 | 209.1 | 208.6 | 208.0 | 206.9 |
| 26.5° | 205.4 | 206.4 | 207.8 | 207.4 | 206.5 | 205.7 |
| 27° | 204.3 | 205.2 | 206.4 | 206.0 | 205.2 | 204.3 |
| 27.5° | 203.1 | 203.8 | 205.2 | 204.8 | 204.1 | 203.0 |
| 28° | 201.7 | 202.5 | 204.0 | 203.6 | 202.9 | 201.8 |
| 28.5° | 200.3 | 201.4 | 202.7 | 202.4 | 201.5 | 200.4 |
| 29° | 199.0 | 200.0 | 201.4 | 201.0 | 200.2 | 199.0 |
| 29.5° | 197.7 | 198.7 | 200.1 | 199.6 | 199.0 | 197.7 |
| 30° | 196.4 | 197.2 | 198.8 | 198.3 | 197.6 | 196.4 |
| 30.5° | 194.8 | 195.9 | 197.4 | 196.9 | 196.2 | 195.0 |
| 31° | 193.4 | 194.6 | 196.0 | 195.7 | 194.8 | 193.7 |
| 31.5° | 192.0 | 193.3 | 194.7 | 194.4 | 193.5 | 192.2 |
| 32° | 190.7 | 191.8 | 193.2 | 192.9 | 192.1 | 190.8 |
| 32.5° | 189.3 | 190.4 | 191.9 | 191.4 | 190.7 | 189.4 |
| 33° | 187.8 | 188.9 | 190.6 | 190.0 | 189.1 | 187.9 |
| 33.5° | 186.3 | 187.5 | 189.1 | 188.7 | 187.6 | 186.6 |
| 34° | 184.9 | 186.0 | 187.5 | 187.3 | 186.2 | 185.1 |
| 34.5° | 183.4 | 184.5 | 186.0 | 185.8 | 184.9 | 183.6 |
| 35° | 181.9 | 183.1 | 184.7 | 184.2 | 183.3 | 182.0 |
| 35.5° | 180.4 | 181.5 | 183.2 | 182.5 | 181.7 | 180.5 |
| 36° | 178.9 | 179.9 | 181.7 | 181.1 | 180.2 | 179.1 |
| 36.5° | 177.3 | 178.5 | 180.1 | 179.7 | 178.9 | 177.6 |
| 37° | 175.8 | 177.1 | 178.6 | 178.2 | 177.3 | 175.9 |
| 37.5° | 174.3 | 175.3 | 177.0 | 176.6 | 175.6 | 174.3 |
| 38° | 172.7 | 173.7 | 175.4 | 175.0 | 174.1 | 172.7 |
| 38.5° | 170.8 | 172.3 | 173.9 | 173.4 | 172.6 | 171.2 |
| 39° | 169.3 | 170.6 | 172.4 | 171.7 | 170.9 | 169.6 |
| 39.5° | 168.0 | 169.0 | 170.7 | 170.2 | 169.3 | 168.1 |
| 40° | 166.2 | 167.4 | 169.1 | 168.7 | 167.7 | 166.5 |
| 40.5° | 164.4 | 165.9 | 167.5 | 167.0 | 166.1 | 164.8 |
| 41° | 162.8 | 164.2 | 165.9 | 165.2 | 164.5 | 163.0 |
| 41.5° | 161.2 | 162.6 | 164.2 | 163.6 | 162.9 | 161.3 |
| 42° | 159.6 | 160.9 | 162.5 | 162.1 | 161.2 | 159.8 |
| 42.5° | 157.9 | 159.1 | 161.0 | 160.4 | 159.5 | 158.2 |
| 43° | 156.2 | 157.5 | 159.2 | 158.7 | 157.8 | 156.5 |
| 43.5° | 154.5 | 155.9 | 157.6 | 157.1 | 156.0 | 154.7 |
| 44° | 152.8 | 154.2 | 155.9 | 155.4 | 154.4 | 153.1 |
| 44.5° | 151.0 | 152.4 | 154.2 | 153.6 | 152.7 | 151.5 |

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

Scaled Data Report

TEST NUMBER: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 45° | 149.3 | 150.6 | 152.4 | 152.0 | 151.1 | 149.7 |
| 45.5° | 147.6 | 149.0 | 150.7 | 150.3 | 149.4 | 148.1 |
| 46° | 145.9 | 147.3 | 149.1 | 148.6 | 147.6 | 146.3 |
| 46.5° | 144.2 | 145.5 | 147.4 | 146.8 | 145.8 | 144.6 |
| 47° | 142.5 | 143.7 | 145.6 | 145.1 | 144.1 | 142.9 |
| 47.5° | 140.8 | 142.0 | 143.9 | 143.3 | 142.3 | 141.1 |
| 48° | 139.0 | 140.2 | 142.1 | 141.6 | 140.6 | 139.3 |
| 48.5° | 137.3 | 138.5 | 140.4 | 139.9 | 138.9 | 137.6 |
| 49° | 135.5 | 136.7 | 138.7 | 138.2 | 137.1 | 136.0 |
| 49.5° | 133.8 | 135.0 | 137.0 | 136.4 | 135.3 | 134.3 |
| 50° | 132.1 | 133.2 | 135.1 | 134.7 | 133.6 | 132.5 |
| 50.5° | 130.3 | 131.5 | 133.4 | 132.9 | 131.9 | 130.6 |
| 51° | 128.4 | 129.7 | 131.6 | 131.1 | 130.1 | 128.9 |
| 51.5° | 126.6 | 127.9 | 129.9 | 129.3 | 128.4 | 127.2 |
| 52° | 124.8 | 126.1 | 128.1 | 127.6 | 126.6 | 125.4 |
| 52.5° | 123.1 | 124.5 | 126.4 | 125.8 | 124.9 | 123.7 |
| 53° | 121.4 | 122.7 | 124.5 | 124.0 | 123.2 | 121.9 |
| 53.5° | 119.5 | 120.9 | 122.7 | 122.2 | 121.3 | 120.0 |
| 54° | 117.6 | 119.0 | 120.9 | 120.4 | 119.5 | 118.2 |
| 54.5° | 115.9 | 117.4 | 119.1 | 118.7 | 117.8 | 116.4 |
| 55° | 114.1 | 115.6 | 117.3 | 116.8 | 116.1 | 114.7 |
| 55.5° | 112.3 | 113.7 | 115.5 | 115.0 | 114.3 | 112.9 |
| 56° | 110.5 | 111.9 | 113.7 | 113.2 | 112.4 | 111.0 |
| 56.5° | 108.6 | 110.1 | 111.9 | 111.4 | 110.6 | 109.2 |
| 57° | 106.8 | 108.3 | 110.1 | 109.6 | 108.8 | 107.4 |
| 57.5° | 104.9 | 106.6 | 108.2 | 107.8 | 107.1 | 105.6 |
| 58° | 103.1 | 104.7 | 106.4 | 105.9 | 105.3 | 103.8 |
| 58.5° | 101.3 | 102.8 | 104.6 | 104.1 | 103.4 | 102.0 |
| 59° | 99.4 | 101.0 | 102.8 | 102.3 | 101.5 | 100.2 |
| 59.5° | 97.7 | 99.2 | 101.0 | 100.5 | 99.7 | 98.3 |
| 60° | 95.8 | 97.3 | 99.1 | 98.6 | 97.9 | 96.5 |
| 60.5° | 94.0 | 95.5 | 97.3 | 96.8 | 96.1 | 94.6 |
| 61° | 92.1 | 93.6 | 95.4 | 95.0 | 94.2 | 92.8 |
| 61.5° | 90.3 | 91.8 | 93.6 | 93.1 | 92.4 | 91.1 |
| 62° | 88.5 | 89.9 | 91.7 | 91.2 | 90.5 | 89.2 |
| 62.5° | 86.7 | 88.1 | 89.9 | 89.5 | 88.7 | 87.4 |
| 63° | 84.8 | 86.2 | 88.0 | 87.6 | 86.8 | 85.5 |
| 63.5° | 83.0 | 84.3 | 86.1 | 85.8 | 84.9 | 83.7 |
| 64° | 81.2 | 82.5 | 84.3 | 83.8 | 83.1 | 81.9 |
| 64.5° | 79.3 | 80.6 | 82.4 | 82.0 | 81.3 | 80.1 |
| 65° | 77.5 | 78.8 | 80.6 | 80.1 | 79.4 | 78.2 |
| 65.5° | 75.6 | 76.9 | 78.7 | 78.3 | 77.6 | 76.4 |
| 66° | 73.8 | 75.0 | 76.8 | 76.4 | 75.7 | 74.5 |
| 66.5° | 72.0 | 73.2 | 75.0 | 74.5 | 73.8 | 72.7 |
| 67° | 70.2 | 71.4 | 73.1 | 72.7 | 72.0 | 70.9 |

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

Scaled Data Report

TEST NUMBER: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 67.5° | 68.3 | 69.6 | 71.3 | 70.9 | 70.2 | 69.0 |
| 68° | 66.5 | 67.7 | 69.5 | 69.0 | 68.3 | 67.3 |
| 68.5° | 64.7 | 65.8 | 67.6 | 67.1 | 66.5 | 65.5 |
| 69° | 62.9 | 64.0 | 65.8 | 65.3 | 64.6 | 63.7 |
| 69.5° | 61.0 | 62.2 | 63.9 | 63.6 | 62.8 | 61.9 |
| 70° | 59.2 | 60.4 | 62.1 | 61.7 | 61.0 | 60.1 |
| 70.5° | 57.5 | 58.5 | 60.3 | 59.9 | 59.2 | 58.3 |
| 71° | 55.7 | 56.7 | 58.5 | 58.1 | 57.4 | 56.5 |
| 71.5° | 53.9 | 54.9 | 56.7 | 56.3 | 55.6 | 54.8 |
| 72° | 52.2 | 53.1 | 55.0 | 54.5 | 53.7 | 53.0 |
| 72.5° | 50.4 | 51.4 | 53.1 | 52.7 | 52.0 | 51.3 |
| 73° | 48.6 | 49.6 | 51.3 | 51.0 | 50.2 | 49.5 |
| 73.5° | 46.8 | 47.8 | 49.6 | 49.2 | 48.5 | 47.8 |
| 74° | 45.1 | 46.0 | 47.9 | 47.5 | 46.7 | 46.1 |
| 74.5° | 43.3 | 44.3 | 46.1 | 45.7 | 45.0 | 44.4 |
| 75° | 41.7 | 42.6 | 44.4 | 44.0 | 43.2 | 42.6 |
| 75.5° | 40.0 | 40.9 | 42.6 | 42.3 | 41.5 | 41.0 |
| 76° | 38.2 | 39.1 | 40.9 | 40.6 | 39.8 | 39.3 |
| 76.5° | 36.5 | 37.5 | 39.2 | 38.9 | 38.1 | 37.6 |
| 77° | 34.9 | 35.8 | 37.5 | 37.1 | 36.4 | 35.9 |
| 77.5° | 33.2 | 34.6 | 35.8 | 35.5 | 34.7 | 34.4 |
| 78° | 31.6 | 32.9 | 34.2 | 33.8 | 33.1 | 32.7 |
| 78.5° | 29.9 | 31.1 | 32.5 | 32.2 | 31.5 | 31.1 |
| 79° | 28.3 | 29.4 | 30.9 | 30.5 | 29.9 | 29.4 |
| 79.5° | 26.7 | 27.6 | 29.2 | 28.9 | 28.3 | 27.8 |
| 80° | 25.1 | 26.0 | 27.5 | 27.2 | 26.6 | 26.2 |
| 80.5° | 23.6 | 24.4 | 25.9 | 25.6 | 25.0 | 24.6 |
| 81° | 22.0 | 22.8 | 24.4 | 24.1 | 23.5 | 23.1 |
| 81.5° | 20.4 | 21.3 | 22.8 | 22.5 | 21.9 | 21.5 |
| 82° | 18.9 | 19.7 | 21.2 | 20.9 | 20.4 | 20.0 |
| 82.5° | 17.4 | 18.2 | 19.7 | 19.4 | 18.9 | 18.5 |
| 83° | 15.9 | 16.7 | 18.2 | 17.9 | 17.3 | 16.9 |
| 83.5° | 14.4 | 15.2 | 16.7 | 16.4 | 15.9 | 15.5 |
| 84° | 12.9 | 13.8 | 15.2 | 14.9 | 14.4 | 14.0 |
| 84.5° | 11.5 | 12.4 | 13.7 | 13.5 | 13.0 | 12.6 |
| 85° | 10.1 | 10.9 | 12.3 | 12.1 | 11.5 | 11.1 |
| 85.5° | 8.8 | 9.5 | 10.9 | 10.6 | 10.2 | 9.7 |
| 86° | 7.4 | 8.2 | 9.5 | 9.3 | 8.8 | 8.4 |
| 86.5° | 6.0 | 6.8 | 8.1 | 7.9 | 7.5 | 7.0 |
| 87° | 4.6 | 5.5 | 6.8 | 6.6 | 6.1 | 5.7 |
| 87.5° | 3.4 | 4.2 | 5.5 | 5.2 | 4.9 | 4.4 |
| 88° | 2.1 | 3.0 | 4.2 | 3.9 | 3.6 | 3.1 |
| 88.5° | 1.0 | 1.8 | 3.4 | 3.0 | 2.7 | 2.4 |
| 89° | 0.2 | 1.4 | 2.5 | 2.0 | 1.8 | 1.6 |
| 89.5° | 0.0 | 1.1 | 1.7 | 1.0 | 1.0 | 0.8 |

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

Scaled Data Report

TEST NUMBER: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 90° | 0.0 | 0.7 | 0.9 | 0.1 | 0.1 | 0.0 |
| 90.5° | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 91° | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 91.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 93° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 93.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 94° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 94.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 96° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 96.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 98° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 98.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 99° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 99.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 101° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 101.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 103° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 103.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 104° | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 104.5° | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105.5° | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**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° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 129° | 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 |
| 130° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 130.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 131° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 131.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 132° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 132.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 133° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 133.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 134° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 134.5° | 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: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 135° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 135.5° | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 136° | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 136.5° | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 137° | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 137.5° | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 138° | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 138.5° | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 139° | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 139.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 140° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 140.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 141° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 141.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 142° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 142.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 143° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 143.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 144° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 144.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 145° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 145.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 146° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 146.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 147° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 147.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 148° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 148.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 149° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 149.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 150° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 150.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 151° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 151.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 152° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 152.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 153° | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 153.5° | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 154° | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 154.5° | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 155° | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 155.5° | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 156° | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 156.5° | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 157° | 0.3 | 0.2 | 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: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**CANDELA DISTRIBUTION (continued):**

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|---|---|---|---|---|---|---|
| 157.5° | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 158° | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 158.5° | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 159° | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 159.5° | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 160° | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 160.5° | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 161° | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 161.5° | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 162° | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 162.5° | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 163° | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 163.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| 164° | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| 164.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| 165° | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| 165.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| 166° | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| 166.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| 167° | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| 167.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| 168° | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 |
| 168.5° | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 |
| 169° | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 |
| 169.5° | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 |
| 170° | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 170.5° | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 171° | 0.2 | 0.3 | 0.2 | 0.2 | 0.1 | 0.2 |
| 171.5° | 0.2 | 0.3 | 0.2 | 0.2 | 0.1 | 0.2 |
| 172° | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 172.5° | 0.2 | 0.3 | 0.2 | 0.2 | 0.1 | 0.2 |
| 173° | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 173.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 174° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 174.5° | 0.2 | 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 |

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**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: P1596597
CATALOG NUMBER: HLB2LSFS5-MED-5000K

**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 | 29.24 | 30.86 | 29.61 | 31.18 | 31.50 | 28.88 | 30.50 | 29.24 | 30.81 | 31.13 |
| | 3H | 31.04 | 32.50 | 31.42 | 32.83 | 33.19 | 30.61 | 32.08 | 30.99 | 32.41 | 32.77 |
| | 4H | 31.72 | 33.10 | 32.12 | 33.45 | 33.83 | 31.25 | 32.63 | 31.65 | 32.98 | 33.36 |
| | 6H | 32.24 | 33.52 | 32.65 | 33.89 | 34.28 | 31.71 | 32.99 | 32.12 | 33.36 | 33.75 |
| | 8H | 32.41 | 33.63 | 32.84 | 34.02 | 34.42 | 31.85 | 33.07 | 32.27 | 33.46 | 33.86 |
| | 12H | 32.49 | 33.66 | 32.92 | 34.04 | 34.47 | 31.90 | 33.07 | 32.33 | 33.45 | 33.88 |
| 4H | 2H | 29.87 | 31.25 | 30.27 | 31.60 | 31.98 | 29.50 | 30.88 | 29.90 | 31.23 | 31.61 |
| | 3H | 31.88 | 33.04 | 32.30 | 33.44 | 33.84 | 31.45 | 32.61 | 31.86 | 33.01 | 33.41 |
| | 4H | 32.70 | 33.75 | 33.13 | 34.16 | 34.60 | 32.22 | 33.27 | 32.65 | 33.68 | 34.12 |
| | 6H | 33.35 | 34.27 | 33.81 | 34.71 | 35.17 | 32.80 | 33.71 | 33.26 | 34.16 | 34.61 |
| | 8H | 33.57 | 34.43 | 34.03 | 34.87 | 35.34 | 32.98 | 33.83 | 33.44 | 34.28 | 34.75 |
| | 12H | 33.70 | 34.47 | 34.19 | 34.95 | 35.42 | 33.07 | 33.84 | 33.55 | 34.32 | 34.79 |
| 8H | 4H | 33.02 | 33.87 | 33.48 | 34.32 | 34.79 | 32.53 | 33.38 | 32.99 | 33.83 | 34.30 |
| | 6H | 33.80 | 34.51 | 34.29 | 35.00 | 35.47 | 33.22 | 33.93 | 33.72 | 34.42 | 34.90 |
| | 8H | 34.09 | 34.73 | 34.60 | 35.24 | 35.73 | 33.47 | 34.10 | 33.98 | 34.61 | 35.10 |
| | 12H | 34.30 | 34.87 | 34.81 | 35.36 | 35.92 | 33.62 | 34.19 | 34.13 | 34.68 | 35.24 |
| 12H | 4H | 33.06 | 33.82 | 33.54 | 34.30 | 34.77 | 32.56 | 33.33 | 33.04 | 33.81 | 34.28 |
| | 6H | 33.86 | 34.50 | 34.37 | 35.00 | 35.49 | 33.28 | 33.92 | 33.79 | 34.42 | 34.91 |
| | 8H | 34.21 | 34.78 | 34.72 | 35.27 | 35.83 | 33.57 | 34.14 | 34.08 | 34.63 | 35.19 |

END OF REPORT