

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: IRiS

Report Number: P1299098

Luminaire Tested: P3AS13R70W2N902765DE010 E3LSWW1H\_3500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1299098  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3AS13R70W2N902765DE010 E3LSWW1H\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3500K CCT AND, 90CRI ,  
E3LSWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 395.0 lumens  
Efficiency: N/A  
Efficacy: 32.1 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 12.3  
Input Voltage (V): NR  
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

TEST NUMBER: P1299098  
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### Luminous Intensity Polar Plot





TEST NUMBER: P1299098

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 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   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 89  | 85  | 91  | 87  | 83  | 88  | 85  | 81  | 85  | 82  | 80  | 78  |
| 3   | 95  | 87  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 80  | 75  | 71  | 77  | 73  | 70  | 68  |
| 4   | 88  | 78  | 70  | 65  | 86  | 77  | 70  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 60  |
| 5   | 82  | 71  | 63  | 57  | 80  | 70  | 62  | 57  | 68  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |
| 6   | 76  | 64  | 56  | 51  | 74  | 63  | 56  | 51  | 62  | 55  | 50  | 60  | 54  | 50  | 59  | 53  | 49  | 47  |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 44  | 43  |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 44  | 40  | 39  |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 43483 | 43483 | 43483 | 43483 | 43483 |
| 5°  | 53511 | 49813 | 42417 | 37244 | 35263 |
| 10° | 65352 | 56133 | 39924 | 30928 | 28434 |
| 15° | 79342 | 61544 | 36368 | 25698 | 22883 |
| 20° | 88884 | 65362 | 32413 | 20908 | 18552 |
| 25° | 94602 | 66149 | 28744 | 17348 | 14638 |
| 30° | 97028 | 64111 | 25244 | 14762 | 12483 |
| 35° | 93880 | 62078 | 22192 | 12608 | 10788 |
| 40° | 85932 | 58366 | 19551 | 11221 | 9618  |
| 45° | 76101 | 48625 | 17366 | 10420 | 8683  |
| 50° | 63077 | 41653 | 15283 | 9552  | 8017  |
| 55° | 47559 | 34675 | 14145 | 8984  | 7264  |
| 60° | 37322 | 26051 | 12762 | 8333  | 6403  |
| 65° | 27915 | 19198 | 11052 | 6953  | 5241  |
| 70° | 17952 | 12182 | 7886  | 5001  | 2885  |
| 75° | 7625  | 6608  | 3813  | 1864  | 932   |
| 80° | 1389  | 1389  | 0     | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 76101 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 18.8   | 4.8       |
| 10°-20°   | 54.1   | 13.7      |
| 20°-30°   | 79.2   | 20.0      |
| 30°-40°   | 86.3   | 21.8      |
| 40°-50°   | 74.6   | 18.9      |
| 50°-60°   | 50.0   | 12.7      |
| 60°-70°   | 25.8   | 6.5       |
| 70°-80°   | 6.1    | 1.5       |
| 80°-90°   | 0.1    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 152.1  | 38.5      |
| 0°-40°    | 238.4  | 60.3      |
| 0°-60°    | 363.0  | 91.9      |
| 0°-90°    | 395.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 395.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 198 | 198 | 198 | 198  | 198  |      |
| 5°  | 243 | 226 | 193 | 169  | 160  | 25   |
| 15° | 350 | 271 | 160 | 113  | 101  | 99   |
| 25° | 391 | 273 | 119 | 72   | 60   | 180  |
| 35° | 351 | 232 | 83  | 47   | 40   | 217  |
| 45° | 245 | 157 | 56  | 34   | 28   | 188  |
| 55° | 124 | 91  | 37  | 24   | 19   | 115  |
| 65° | 54  | 37  | 21  | 13   | 10   | 54   |
| 75° | 9   | 8   | 4   | 2    | 1    | 12   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 198.3 | 198.3 | 198.3 | 198.3 | 198.3 | 198.3 | 198.3 | 198.3 | 198.3 | 198.3 | 198.3 |
| 2.5°  | 220.7 | 219.6 | 219.6 | 217.3 | 215.1 | 212.9 | 209.5 | 206.1 | 202.8 | 199.4 | 197.2 |
| 5°    | 243.1 | 244.2 | 243.1 | 238.6 | 233.0 | 226.3 | 219.6 | 211.7 | 203.9 | 197.2 | 192.7 |
| 7.5°  | 268.9 | 268.9 | 265.5 | 259.9 | 252.1 | 240.9 | 229.7 | 216.2 | 203.9 | 192.7 | 187.1 |
| 10°   | 293.5 | 293.5 | 287.9 | 279.0 | 266.6 | 252.1 | 236.4 | 218.5 | 201.7 | 186.0 | 179.3 |
| 12.5° | 323.8 | 322.7 | 315.9 | 301.4 | 283.4 | 262.2 | 240.9 | 218.5 | 198.3 | 179.3 | 170.3 |
| 15°   | 349.5 | 348.4 | 339.5 | 321.5 | 298.0 | 271.1 | 242.0 | 216.2 | 191.6 | 170.3 | 160.2 |
| 17.5° | 368.6 | 366.3 | 356.3 | 337.2 | 310.3 | 276.7 | 243.1 | 211.7 | 183.7 | 160.2 | 150.1 |
| 20°   | 380.9 | 379.8 | 368.6 | 346.2 | 317.1 | 280.1 | 242.0 | 206.1 | 175.9 | 150.1 | 138.9 |
| 22.5° | 388.8 | 386.5 | 375.3 | 350.7 | 317.1 | 279.0 | 237.5 | 198.3 | 165.8 | 140.0 | 128.8 |
| 25°   | 391.0 | 389.9 | 376.4 | 349.5 | 313.7 | 273.4 | 230.8 | 190.5 | 155.7 | 130.0 | 118.8 |
| 26°   | 391.0 | 389.9 | 376.4 | 348.4 | 311.4 | 270.0 | 227.4 | 187.1 | 152.4 | 125.5 | 115.4 |
| 27.5° | 389.9 | 388.8 | 374.2 | 345.1 | 307.0 | 264.4 | 220.7 | 180.4 | 145.6 | 119.9 | 108.7 |
| 30°   | 383.2 | 380.9 | 366.3 | 337.2 | 296.9 | 253.2 | 209.5 | 170.3 | 135.6 | 109.8 | 99.7  |
| 32.5° | 368.6 | 366.3 | 350.7 | 323.8 | 285.7 | 240.9 | 197.2 | 159.1 | 125.5 | 99.7  | 90.7  |
| 35°   | 350.7 | 348.4 | 332.7 | 307.0 | 270.0 | 231.9 | 183.7 | 146.8 | 114.3 | 91.9  | 82.9  |
| 37.5° | 328.3 | 324.9 | 311.4 | 284.6 | 251.0 | 221.8 | 172.5 | 134.4 | 104.2 | 82.9  | 75.1  |
| 40°   | 300.2 | 299.1 | 286.8 | 262.2 | 228.5 | 203.9 | 165.8 | 134.4 | 95.2  | 75.1  | 68.3  |
| 42.5° | 273.4 | 271.1 | 259.9 | 238.6 | 208.4 | 178.1 | 145.6 | 128.8 | 88.5  | 67.2  | 61.6  |
| 45°   | 245.4 | 243.1 | 233.0 | 215.1 | 187.1 | 156.8 | 110.9 | 76.2  | 61.6  | 56.0  | 56.0  |
| 47.5° | 215.1 | 212.9 | 205.0 | 191.6 | 166.9 | 140.0 | 114.3 | 90.7  | 69.5  | 54.9  | 50.4  |
| 50°   | 184.9 | 186.0 | 179.3 | 165.8 | 146.8 | 122.1 | 98.6  | 76.2  | 59.4  | 49.3  | 44.8  |
| 52.5° | 154.6 | 153.5 | 149.0 | 140.0 | 126.6 | 105.3 | 84.0  | 65.0  | 51.5  | 43.7  | 41.5  |
| 55°   | 124.4 | 125.5 | 123.2 | 117.6 | 106.4 | 90.7  | 70.6  | 56.0  | 45.9  | 39.2  | 37.0  |
| 57.5° | 103.1 | 104.2 | 99.7  | 96.3  | 87.4  | 73.9  | 58.3  | 47.1  | 39.2  | 34.7  | 32.5  |
| 60°   | 85.1  | 86.3  | 82.9  | 78.4  | 71.7  | 59.4  | 47.1  | 39.2  | 34.7  | 31.4  | 29.1  |
| 62.5° | 69.5  | 68.3  | 66.1  | 61.6  | 56.0  | 47.1  | 38.1  | 32.5  | 29.1  | 26.9  | 25.8  |
| 65°   | 53.8  | 53.8  | 51.5  | 48.2  | 43.7  | 37.0  | 30.2  | 26.9  | 24.6  | 22.4  | 21.3  |
| 67.5° | 40.3  | 40.3  | 38.1  | 35.9  | 31.4  | 26.9  | 23.5  | 21.3  | 20.2  | 17.9  | 16.8  |
| 70°   | 28.0  | 28.0  | 26.9  | 25.8  | 22.4  | 19.0  | 17.9  | 15.7  | 14.6  | 13.4  | 12.3  |
| 72.5° | 17.9  | 17.9  | 17.9  | 15.7  | 14.6  | 12.3  | 12.3  | 11.2  | 10.1  | 9.0   | 9.0   |
| 75°   | 9.0   | 10.1  | 9.0   | 9.0   | 7.8   | 7.8   | 6.7   | 6.7   | 5.6   | 5.6   | 4.5   |
| 77.5° | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   |
| 80°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 198.3 | 198.3 | 198.3 | 198.3 | 198.3 | 198.3 | 198.3 | 198.3 | 198.3 | 198.3 |
| 2.5°  | 194.9 | 191.6 | 189.3 | 186.0 | 183.7 | 181.5 | 180.4 | 179.3 | 179.3 | 179.3 |
| 5°    | 189.3 | 183.7 | 178.1 | 172.5 | 169.2 | 165.8 | 162.4 | 161.3 | 160.2 | 160.2 |
| 7.5°  | 182.6 | 173.7 | 165.8 | 159.1 | 153.5 | 150.1 | 146.8 | 144.5 | 143.4 | 143.4 |
| 10°   | 173.7 | 162.4 | 153.5 | 144.5 | 138.9 | 134.4 | 132.2 | 128.8 | 128.8 | 127.7 |
| 12.5° | 163.6 | 150.1 | 140.0 | 132.2 | 126.6 | 121.0 | 117.6 | 115.4 | 114.3 | 114.3 |
| 15°   | 152.4 | 138.9 | 127.7 | 118.8 | 113.2 | 107.6 | 104.2 | 101.9 | 100.8 | 100.8 |
| 17.5° | 141.2 | 126.6 | 115.4 | 106.4 | 100.8 | 95.2  | 91.9  | 89.6  | 89.6  | 88.5  |
| 20°   | 130.0 | 115.4 | 104.2 | 95.2  | 89.6  | 85.1  | 81.8  | 79.5  | 78.4  | 79.5  |
| 22.5° | 119.9 | 105.3 | 94.1  | 86.3  | 79.5  | 75.1  | 71.7  | 70.6  | 69.5  | 69.5  |
| 25°   | 108.7 | 95.2  | 85.1  | 77.3  | 71.7  | 67.2  | 63.9  | 62.7  | 61.6  | 60.5  |
| 26°   | 105.3 | 91.9  | 81.8  | 73.9  | 68.3  | 63.9  | 61.6  | 59.4  | 58.3  | 58.3  |
| 27.5° | 100.8 | 86.3  | 77.3  | 69.5  | 63.9  | 60.5  | 57.1  | 56.0  | 54.9  | 54.9  |
| 30°   | 90.7  | 78.4  | 69.5  | 62.7  | 58.3  | 53.8  | 51.5  | 50.4  | 49.3  | 49.3  |
| 32.5° | 82.9  | 70.6  | 62.7  | 57.1  | 52.7  | 49.3  | 47.1  | 44.8  | 44.8  | 44.8  |
| 35°   | 75.1  | 63.9  | 57.1  | 51.5  | 47.1  | 43.7  | 42.6  | 41.5  | 40.3  | 40.3  |
| 37.5° | 68.3  | 58.3  | 51.5  | 47.1  | 43.7  | 40.3  | 38.1  | 37.0  | 37.0  | 37.0  |
| 40°   | 61.6  | 53.8  | 47.1  | 42.6  | 39.2  | 37.0  | 34.7  | 33.6  | 33.6  | 33.6  |
| 42.5° | 56.0  | 48.2  | 43.7  | 39.2  | 35.9  | 33.6  | 32.5  | 31.4  | 30.2  | 30.2  |
| 45°   | 51.5  | 44.8  | 39.2  | 35.9  | 33.6  | 31.4  | 29.1  | 28.0  | 28.0  | 28.0  |
| 47.5° | 45.9  | 41.5  | 35.9  | 32.5  | 30.2  | 28.0  | 26.9  | 25.8  | 25.8  | 25.8  |
| 50°   | 42.6  | 38.1  | 33.6  | 30.2  | 28.0  | 25.8  | 24.6  | 23.5  | 23.5  | 23.5  |
| 52.5° | 38.1  | 34.7  | 31.4  | 28.0  | 25.8  | 23.5  | 22.4  | 21.3  | 21.3  | 21.3  |
| 55°   | 34.7  | 31.4  | 28.0  | 25.8  | 23.5  | 21.3  | 20.2  | 19.0  | 19.0  | 19.0  |
| 57.5° | 31.4  | 28.0  | 25.8  | 23.5  | 21.3  | 20.2  | 17.9  | 17.9  | 16.8  | 16.8  |
| 60°   | 28.0  | 24.6  | 22.4  | 21.3  | 19.0  | 17.9  | 15.7  | 14.6  | 14.6  | 14.6  |
| 62.5° | 23.5  | 22.4  | 20.2  | 17.9  | 15.7  | 14.6  | 13.4  | 12.3  | 12.3  | 12.3  |
| 65°   | 20.2  | 19.0  | 16.8  | 14.6  | 13.4  | 12.3  | 11.2  | 10.1  | 10.1  | 10.1  |
| 67.5° | 16.8  | 14.6  | 13.4  | 12.3  | 11.2  | 10.1  | 9.0   | 7.8   | 6.7   | 7.8   |
| 70°   | 12.3  | 11.2  | 10.1  | 9.0   | 7.8   | 6.7   | 5.6   | 5.6   | 4.5   | 4.5   |
| 72.5° | 7.8   | 6.7   | 6.7   | 5.6   | 4.5   | 4.5   | 3.4   | 3.4   | 2.2   | 2.2   |
| 75°   | 4.5   | 4.5   | 3.4   | 3.4   | 2.2   | 2.2   | 1.1   | 1.1   | 1.1   | 1.1   |
| 77.5° | 2.2   | 1.1   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)