

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: P#

Luminaire Tested: P3ART13R70W2N902750DE010 E3CLSWW1MW_4000K

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART13R70W2N902750DE010 E3CLSWW1MW_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,
E3CLSWW1MW 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: P#
CATALOG NUMBER: P3ART13R70W2N902750DE010 E3CLSWW1MW_4000K

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: P3ART13R70W2N902750DE010 E3CLSWW1MW_4000K

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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 96 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | 89 |
| 2 | 103 | 96 | 91 | 86 | 101 | 95 | 89 | 85 | 91 | 87 | 83 | 88 | 85 | 81 | 85 | 82 | 80 | 78 | | | | 78 |
| 3 | 95 | 87 | 80 | 74 | 93 | 85 | 79 | 74 | 82 | 77 | 72 | 80 | 75 | 71 | 77 | 73 | 70 | 68 | | | | 68 |
| 4 | 88 | 78 | 70 | 65 | 86 | 77 | 70 | 64 | 74 | 68 | 63 | 72 | 67 | 63 | 70 | 66 | 62 | 60 | | | | 60 |
| 5 | 82 | 71 | 63 | 57 | 80 | 70 | 62 | 57 | 68 | 61 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 | | | | 53 |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 51 | 62 | 55 | 50 | 60 | 54 | 50 | 59 | 53 | 49 | 47 | | | | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 | | | | 43 |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | | | 39 |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | 35 |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | 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



TEST NUMBER: P#

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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 | |



TEST NUMBER: P#
 CATALOG NUMBER: P3ART13R70W2N902750DE010 E3CLSWW1MW_4000K

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 | 43.7 | 41.5 |
| 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 |



TEST NUMBER: P#
 CATALOG NUMBER: P3ART13R70W2N902750DE010 E3CLSWW1MW_4000K

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)