

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: PORTFOLIO

Report Number: P1324473

Luminaire Tested: LDSQA3D05R20W2N902765DE010 3LSQPHRLD1MW_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R20W2N902765DE010 3LSQPHRLD1MW_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 90CRI ,
3LSQPHRLD1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

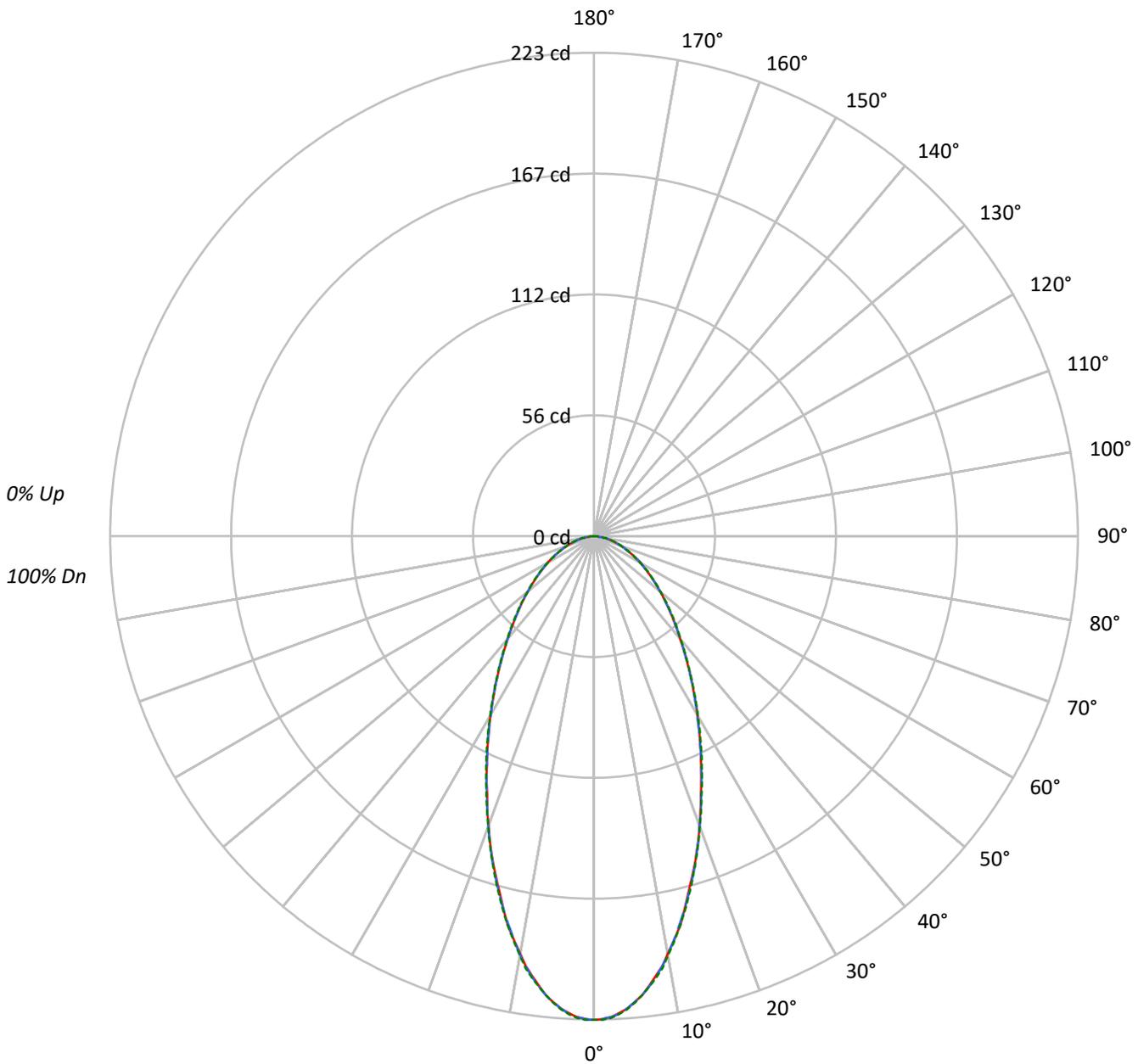
Lumens per Lamp: N/A
Luminaire Lumens: 267.0 lumens
Efficiency: N/A
Efficacy: 45.3 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.86
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ···· 90°-270°



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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 | 107 | 104 | 100 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 |
| 2 | 103 | 96 | 91 | 86 | 100 | 94 | 89 | 85 | 91 | 87 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 |
| 3 | 96 | 87 | 80 | 75 | 93 | 85 | 79 | 74 | 82 | 77 | 73 | 80 | 75 | 71 | 77 | 74 | 70 | 68 |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 65 | 73 | 68 | 64 | 71 | 67 | 63 | 61 |
| 5 | 83 | 72 | 64 | 59 | 81 | 71 | 64 | 58 | 69 | 63 | 58 | 67 | 62 | 57 | 65 | 61 | 57 | 55 |
| 6 | 78 | 66 | 59 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 56 | 52 | 50 |
| 7 | 73 | 61 | 54 | 48 | 71 | 60 | 53 | 48 | 59 | 53 | 48 | 58 | 52 | 48 | 56 | 51 | 47 | 45 |
| 8 | 69 | 57 | 49 | 44 | 67 | 56 | 49 | 44 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 47 | 43 | 42 |
| 9 | 65 | 53 | 46 | 41 | 63 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 45 | 40 | 49 | 44 | 40 | 39 |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 46 | 41 | 37 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 38440 | 38440 | 38440 |
| 5° | 37290 | 37290 | 37342 |
| 10° | 34224 | 34294 | 34364 |
| 15° | 30132 | 30275 | 30346 |
| 20° | 26080 | 26080 | 26153 |
| 25° | 22195 | 22195 | 22347 |
| 30° | 18952 | 18872 | 19031 |
| 35° | 16168 | 16168 | 16252 |
| 40° | 13894 | 13894 | 13984 |
| 45° | 12129 | 12129 | 12227 |
| 50° | 10690 | 10690 | 10690 |
| 55° | 9458 | 9458 | 9578 |
| 60° | 8508 | 8508 | 8508 |
| 65° | 7621 | 7621 | 7621 |
| 70° | 6848 | 6848 | 6848 |
| 75° | 6122 | 5856 | 6122 |
| 80° | 5157 | 5157 | 5157 |
| 85° | 3162 | 3162 | 3952 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12227 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 20.0 | 7.5 |
| 10°-20° | 47.3 | 17.7 |
| 20°-30° | 53.8 | 20.2 |
| 30°-40° | 48.3 | 18.1 |
| 40°-50° | 38.7 | 14.5 |
| 50°-60° | 28.5 | 10.7 |
| 60°-70° | 18.6 | 7.0 |
| 70°-80° | 9.7 | 3.6 |
| 80°-90° | 2.2 | 0.8 |
| 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° | 121.0 | 45.3 |
| 0°-40° | 169.4 | 63.4 |
| 0°-60° | 236.5 | 88.6 |
| 0°-90° | 267.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 267.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 223 | 223 | 223 | 223 | 223 | |
| 5° | 216 | 216 | 216 | 216 | 216 | 20 |
| 15° | 169 | 169 | 170 | 170 | 170 | 47 |
| 25° | 117 | 117 | 117 | 117 | 118 | 54 |
| 35° | 77 | 77 | 77 | 77 | 77 | 48 |
| 45° | 50 | 50 | 50 | 50 | 50 | 39 |
| 55° | 32 | 32 | 32 | 32 | 32 | 28 |
| 65° | 19 | 18 | 19 | 19 | 19 | 19 |
| 75° | 9 | 9 | 9 | 9 | 9 | 10 |
| 85° | 2 | 2 | 2 | 2 | 2 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 223.2 | 223.2 | 223.2 | 223.2 | 223.2 |
| 1° | 222.8 | 222.4 | 222.8 | 222.8 | 223.2 |
| 2° | 222.0 | 222.0 | 222.0 | 221.6 | 222.4 |
| 3° | 220.4 | 220.4 | 220.8 | 220.4 | 220.8 |
| 4° | 218.4 | 218.4 | 218.4 | 218.0 | 218.8 |
| 5° | 215.7 | 215.7 | 215.7 | 215.7 | 216.0 |
| 6° | 212.9 | 212.5 | 212.9 | 212.5 | 212.9 |
| 7° | 208.9 | 208.9 | 209.3 | 208.9 | 209.3 |
| 8° | 204.9 | 204.5 | 205.3 | 204.9 | 205.7 |
| 9° | 200.9 | 200.5 | 200.9 | 200.5 | 201.7 |
| 10° | 195.7 | 196.1 | 196.1 | 196.1 | 196.5 |
| 12.5° | 183.8 | 183.0 | 183.0 | 183.0 | 183.8 |
| 15° | 169.0 | 169.0 | 169.8 | 169.8 | 170.2 |
| 17.5° | 155.9 | 155.5 | 156.3 | 156.3 | 156.3 |
| 20° | 142.3 | 141.9 | 142.3 | 142.3 | 142.7 |
| 22.5° | 128.8 | 129.2 | 129.2 | 129.2 | 129.5 |
| 25° | 116.8 | 116.8 | 116.8 | 117.2 | 117.6 |
| 27.5° | 105.6 | 105.2 | 105.6 | 106.0 | 106.4 |
| 30° | 95.3 | 94.9 | 94.9 | 95.3 | 95.7 |
| 32.5° | 85.7 | 85.3 | 85.7 | 85.7 | 86.1 |
| 35° | 76.9 | 76.9 | 76.9 | 76.9 | 77.3 |
| 37.5° | 69.0 | 69.0 | 69.0 | 69.4 | 69.4 |
| 40° | 61.8 | 61.8 | 61.8 | 62.2 | 62.2 |
| 42.5° | 55.4 | 55.4 | 55.4 | 55.8 | 56.2 |
| 45° | 49.8 | 49.8 | 49.8 | 49.8 | 50.2 |
| 47.5° | 44.6 | 44.6 | 44.6 | 45.0 | 45.0 |
| 50° | 39.9 | 39.5 | 39.9 | 40.3 | 39.9 |
| 52.5° | 35.5 | 35.5 | 35.5 | 35.5 | 35.9 |
| 55° | 31.5 | 31.5 | 31.5 | 31.5 | 31.9 |
| 57.5° | 27.9 | 27.9 | 27.9 | 28.3 | 28.3 |
| 60° | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 |
| 62.5° | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 |
| 65° | 18.7 | 18.3 | 18.7 | 18.7 | 18.7 |
| 67.5° | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 |
| 70° | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 |
| 72.5° | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 |
| 75° | 9.2 | 8.8 | 8.8 | 9.2 | 9.2 |
| 77.5° | 7.2 | 6.8 | 7.2 | 7.2 | 7.2 |
| 80° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 82.5° | 3.2 | 3.2 | 3.2 | 3.6 | 3.6 |
| 85° | 1.6 | 1.6 | 1.6 | 2.0 | 2.0 |
| 87.5° | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)