

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P563857

Luminaire Tested: **LD4C05D010 EX4C05D2W 4LCSQWLI**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P563857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C05D010 EX4C05D2W 4LCSQWLI
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LCSQW TRIM WITH LI FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

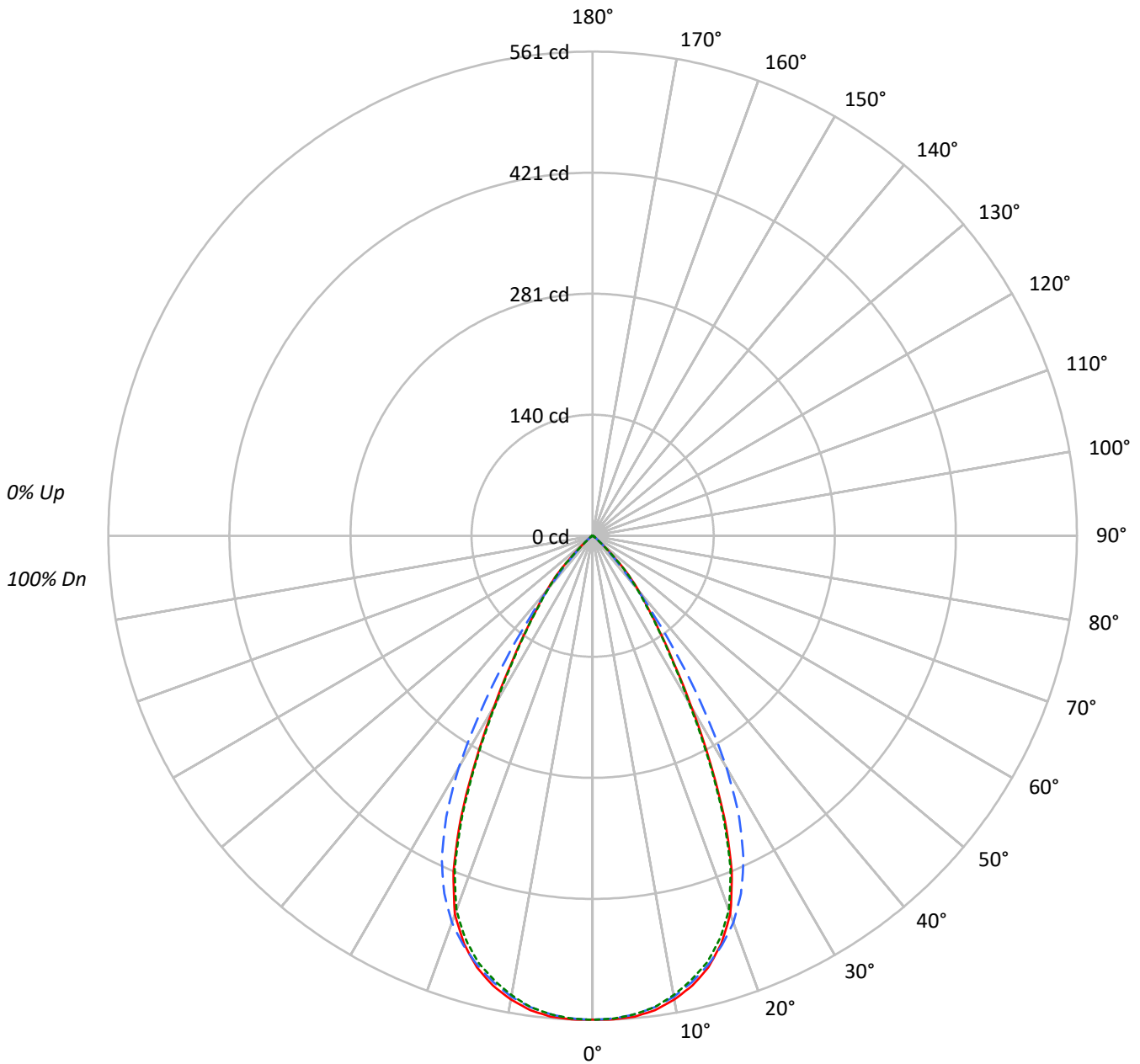
Lumens per Lamp: N/A
Luminaire Lumens: 502.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V):
Input Current (A_{in}): 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: 25 FT

TEST NUMBER: P563857

CATALOG NUMBER: LD4C05D010 EX4C05D2W 4LCSQWLI

Luminous Intensity Polar Plot





TEST NUMBER: P563857

CATALOG NUMBER: LD4C05D010 EX4C05D2W 4LCSQWLI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | |
| 1 | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 100 | 98 | 97 | 96 | 95 | 94 | | | | | | | | | | | | | | | | | | | |
| 2 | 108 | 103 | 99 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 93 | 91 | 89 | 87 | | | | | | | | | | | | | | | | | | | |
| 3 | 103 | 96 | 91 | 88 | 101 | 95 | 90 | 87 | 92 | 89 | 85 | 90 | 87 | 84 | 88 | 85 | 83 | 81 | | | | | | | | | | | | | | | | | | | |
| 4 | 98 | 90 | 85 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 76 | | | | | | | | | | | | | | | | | | | |
| 5 | 93 | 84 | 79 | 74 | 91 | 83 | 78 | 74 | 82 | 77 | 73 | 80 | 76 | 73 | 79 | 75 | 72 | 71 | | | | | | | | | | | | | | | | | | | |
| 6 | 88 | 79 | 73 | 69 | 87 | 79 | 73 | 69 | 77 | 72 | 68 | 76 | 71 | 68 | 74 | 71 | 68 | 66 | | | | | | | | | | | | | | | | | | | |
| 7 | 84 | 75 | 69 | 65 | 82 | 74 | 68 | 64 | 73 | 68 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 | | | | | | | | | | | | | | | | | | | |
| 8 | 80 | 70 | 64 | 60 | 79 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 59 | 58 | | | | | | | | | | | | | | | | | | | |
| 9 | 76 | 66 | 61 | 57 | 75 | 66 | 60 | 57 | 65 | 60 | 56 | 64 | 60 | 56 | 63 | 59 | 56 | 55 | | | | | | | | | | | | | | | | | | | |
| 10 | 72 | 63 | 57 | 53 | 71 | 62 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 52 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 54101 | 54101 | 54101 |
| 5° | 54163 | 53911 | 53911 |
| 10° | 53447 | 53133 | 52967 |
| 15° | 51714 | 51475 | 51125 |
| 20° | 47891 | 48938 | 47367 |
| 25° | 38508 | 44023 | 38008 |
| 30° | 25414 | 34517 | 24812 |
| 35° | 15890 | 20731 | 15596 |
| 40° | 10366 | 9611 | 9963 |
| 45° | 4994 | 3834 | 4708 |
| 50° | 1261 | 1531 | 1186 |
| 55° | 690 | 622 | 673 |
| 60° | 463 | 405 | 444 |
| 65° | 320 | 297 | 320 |
| 70° | 254 | 226 | 254 |
| 75° | 186 | 186 | 186 |
| 80° | 167 | 222 | 222 |
| 85° | 111 | 332 | 332 |



TEST NUMBER: P563857

CATALOG NUMBER: LD4C05D010 EX4C05D2W 4LCSQWLI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.7 | 10.5 |
| 10°-20° | 144.0 | 28.7 |
| 20°-30° | 171.6 | 34.2 |
| 30°-40° | 97.2 | 19.4 |
| 40°-50° | 30.1 | 6.0 |
| 50°-60° | 4.2 | 0.8 |
| 60°-70° | 1.4 | 0.3 |
| 70°-80° | 0.6 | 0.1 |
| 80°-90° | 0.3 | 0.1 |
| 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° | 368.4 | 73.4 |
| 0°-40° | 465.6 | 92.7 |
| 0°-60° | 499.8 | 99.6 |
| 0°-90° | 502.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 502.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 561 | 561 | 561 | 561 | 561 | |
| 5° | 559 | 558 | 557 | 556 | 557 | 53 |
| 15° | 518 | 517 | 515 | 513 | 512 | 144 |
| 25° | 362 | 383 | 414 | 384 | 357 | 161 |
| 35° | 135 | 147 | 176 | 148 | 132 | 88 |
| 45° | 37 | 43 | 28 | 42 | 34 | 30 |
| 55° | 4 | 4 | 4 | 4 | 4 | 4 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 0 | 0 | 0 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P563857

CATALOG NUMBER: LD4C05D010 EX4C05D2W 4LCSQWLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 560.7 | 560.7 | 560.7 | 560.7 | 560.7 |
| 2.5° | 560.9 | 560.0 | 559.7 | 559.5 | 560.0 |
| 5° | 559.2 | 557.9 | 556.6 | 556.2 | 556.6 |
| 7.5° | 554.4 | 553.1 | 551.0 | 550.4 | 550.8 |
| 10° | 545.5 | 544.4 | 542.3 | 541.2 | 540.6 |
| 12.5° | 533.8 | 531.9 | 530.0 | 528.7 | 527.4 |
| 15° | 517.7 | 516.8 | 515.3 | 513.2 | 511.8 |
| 17.5° | 495.4 | 496.7 | 497.6 | 493.5 | 489.8 |
| 20° | 466.4 | 471.2 | 476.6 | 468.3 | 461.3 |
| 22.5° | 421.2 | 434.9 | 448.7 | 432.8 | 417.4 |
| 25° | 361.7 | 382.8 | 413.5 | 383.5 | 357.0 |
| 27.5° | 292.3 | 319.1 | 367.4 | 319.2 | 288.4 |
| 30° | 228.1 | 255.7 | 309.8 | 252.1 | 222.7 |
| 32.5° | 175.2 | 195.8 | 242.0 | 192.7 | 171.5 |
| 35° | 134.9 | 147.1 | 176.0 | 147.5 | 132.4 |
| 37.5° | 104.9 | 111.0 | 118.4 | 108.9 | 101.8 |
| 40° | 82.3 | 82.6 | 76.3 | 81.3 | 79.1 |
| 42.5° | 61.1 | 60.8 | 46.9 | 59.3 | 59.6 |
| 45° | 36.6 | 42.6 | 28.1 | 41.5 | 34.5 |
| 47.5° | 17.4 | 24.1 | 16.9 | 22.8 | 16.1 |
| 50° | 8.4 | 11.6 | 10.2 | 10.8 | 7.9 |
| 52.5° | 5.7 | 5.9 | 5.8 | 5.7 | 5.4 |
| 55° | 4.1 | 4.1 | 3.7 | 4.0 | 4.0 |
| 57.5° | 3.1 | 3.1 | 2.7 | 3.0 | 3.0 |
| 60° | 2.4 | 2.3 | 2.1 | 2.3 | 2.3 |
| 62.5° | 1.8 | 1.8 | 1.5 | 1.8 | 1.8 |
| 65° | 1.4 | 1.4 | 1.3 | 1.4 | 1.4 |
| 67.5° | 1.2 | 1.2 | 0.9 | 1.2 | 1.0 |
| 70° | 0.9 | 0.9 | 0.8 | 0.9 | 0.9 |
| 72.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 75° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 77.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 80° | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 |
| 82.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 85° | 0.1 | 0.3 | 0.3 | 0.3 | 0.3 |
| 87.5° | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)