

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: P#

Luminaire Tested: **LD4C80D010 EX4C809035 4LCSQWH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-14)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C80D010 EX4C809035 4LCSQWH
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

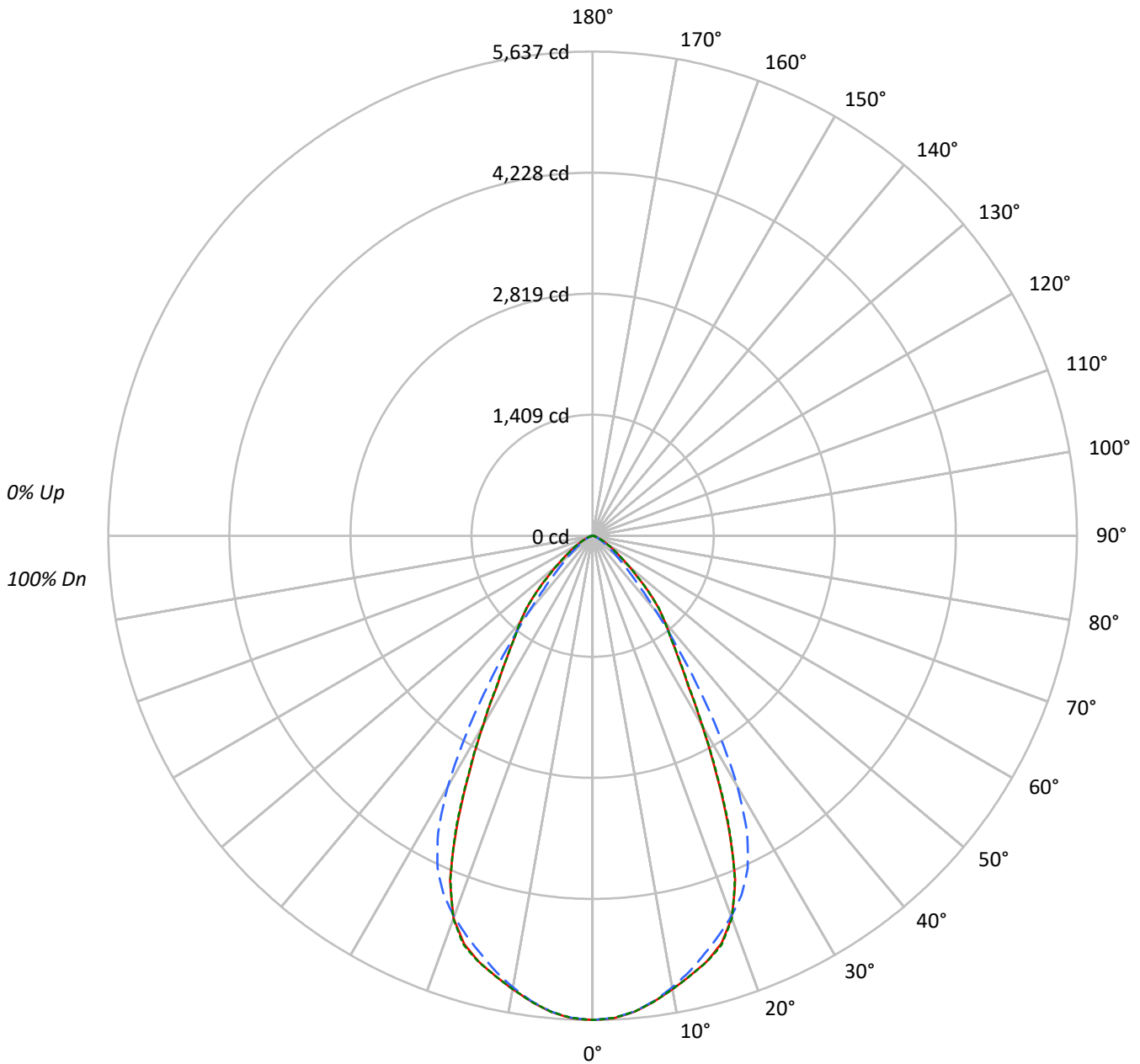
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5966.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
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: P#
CATALOG NUMBER: LD4C80D010 EX4C809035 4LCSQWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809035 4LCSQWH

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 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | | | | | | | | | | | | | | | | | | | |
| 2 | 107 | 101 | 97 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 | | | | | | | | | | | | | | | | | | | |
| 3 | 101 | 93 | 88 | 84 | 98 | 92 | 87 | 83 | 89 | 85 | 82 | 87 | 83 | 80 | 85 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 4 | 95 | 87 | 80 | 76 | 93 | 85 | 80 | 75 | 83 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 71 | | | | | | | | | | | | | | | | | | | |
| 5 | 89 | 80 | 74 | 69 | 88 | 79 | 73 | 69 | 78 | 72 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 66 | | | | | | | | | | | | | | | | | | | |
| 6 | 85 | 75 | 68 | 64 | 83 | 74 | 68 | 63 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 65 | 62 | 61 | | | | | | | | | | | | | | | | | | | |
| 7 | 80 | 70 | 63 | 59 | 79 | 69 | 63 | 59 | 68 | 62 | 58 | 67 | 62 | 58 | 65 | 61 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 8 | 76 | 65 | 59 | 55 | 74 | 65 | 59 | 54 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 9 | 72 | 61 | 55 | 51 | 71 | 61 | 55 | 51 | 60 | 54 | 51 | 59 | 54 | 50 | 58 | 54 | 50 | 49 | | | | | | | | | | | | | | | | | | | |
| 10 | 68 | 58 | 52 | 48 | 67 | 57 | 51 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 46 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 543879 | 543879 | 543879 |
| 5° | 538905 | 538557 | 538731 |
| 10° | 525100 | 523013 | 525100 |
| 15° | 512459 | 503229 | 512999 |
| 20° | 485888 | 484060 | 486792 |
| 25° | 398558 | 454770 | 400644 |
| 30° | 284199 | 375705 | 284600 |
| 35° | 204992 | 248963 | 205616 |
| 40° | 164349 | 144637 | 164349 |
| 45° | 125403 | 84412 | 124434 |
| 50° | 82726 | 53905 | 82455 |
| 55° | 55615 | 36185 | 55026 |
| 60° | 37399 | 24701 | 37727 |
| 65° | 25571 | 17443 | 25160 |
| 70° | 17040 | 12526 | 17040 |
| 75° | 11259 | 9283 | 11259 |
| 80° | 7890 | 6890 | 7890 |
| 85° | 5868 | 5868 | 5868 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 524.0 | 8.8 |
| 10°-20° | 1428.8 | 23.9 |
| 20°-30° | 1786.2 | 29.9 |
| 30°-40° | 1201.6 | 20.1 |
| 40°-50° | 634.5 | 10.6 |
| 50°-60° | 257.9 | 4.3 |
| 60°-70° | 95.6 | 1.6 |
| 70°-80° | 30.9 | 0.5 |
| 80°-90° | 6.7 | 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° | 3738.9 | 62.7 |
| 0°-40° | 4940.5 | 82.8 |
| 0°-60° | 5832.8 | 97.8 |
| 0°-90° | 5966.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5966.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 5637 | 5637 | 5637 | 5637 | 5637 | |
| 5° | 5564 | 5558 | 5560 | 5560 | 5562 | 524 |
| 15° | 5130 | 5088 | 5038 | 5086 | 5136 | 1437 |
| 25° | 3744 | 3953 | 4272 | 3960 | 3763 | 1685 |
| 35° | 1740 | 1827 | 2114 | 1831 | 1746 | 1120 |
| 45° | 919 | 873 | 619 | 869 | 912 | 705 |
| 55° | 331 | 277 | 215 | 277 | 327 | 307 |
| 65° | 112 | 91 | 76 | 91 | 110 | 115 |
| 75° | 30 | 27 | 25 | 27 | 30 | 35 |
| 85° | 5 | 5 | 5 | 5 | 5 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809035 4LCSQWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 5636.7 | 5636.7 | 5636.7 | 5636.7 | 5636.7 |
| 2.5° | 5622.5 | 5619.0 | 5617.2 | 5617.2 | 5619.0 |
| 5° | 5563.9 | 5558.5 | 5560.3 | 5560.3 | 5562.1 |
| 7.5° | 5469.7 | 5467.9 | 5462.5 | 5469.7 | 5469.7 |
| 10° | 5359.4 | 5350.6 | 5338.1 | 5352.3 | 5359.4 |
| 12.5° | 5245.7 | 5219.0 | 5197.7 | 5219.0 | 5245.7 |
| 15° | 5130.1 | 5087.5 | 5037.7 | 5085.7 | 5135.5 |
| 17.5° | 4979.0 | 4936.4 | 4881.3 | 4945.3 | 4993.3 |
| 20° | 4732.0 | 4735.5 | 4714.2 | 4732.0 | 4740.8 |
| 22.5° | 4335.5 | 4415.5 | 4527.5 | 4417.3 | 4323.1 |
| 25° | 3743.6 | 3953.4 | 4271.6 | 3960.5 | 3763.2 |
| 27.5° | 3109.0 | 3375.6 | 3896.5 | 3391.6 | 3128.6 |
| 30° | 2550.8 | 2787.3 | 3372.1 | 2803.3 | 2554.4 |
| 32.5° | 2065.6 | 2241.5 | 2741.0 | 2262.9 | 2088.7 |
| 35° | 1740.3 | 1827.4 | 2113.6 | 1830.9 | 1745.6 |
| 37.5° | 1491.4 | 1491.4 | 1569.6 | 1498.5 | 1484.3 |
| 40° | 1304.8 | 1247.9 | 1148.3 | 1246.1 | 1304.8 |
| 42.5° | 1130.5 | 1045.2 | 833.7 | 1041.7 | 1134.1 |
| 45° | 919.0 | 872.8 | 618.6 | 869.2 | 911.9 |
| 47.5° | 705.7 | 673.7 | 465.7 | 670.2 | 711.0 |
| 50° | 551.1 | 501.3 | 359.1 | 497.7 | 549.3 |
| 52.5° | 423.1 | 369.7 | 277.3 | 369.7 | 419.5 |
| 55° | 330.6 | 277.3 | 215.1 | 277.3 | 327.1 |
| 57.5° | 254.2 | 211.5 | 163.5 | 208.0 | 252.4 |
| 60° | 193.8 | 158.2 | 128.0 | 158.2 | 195.5 |
| 62.5° | 147.5 | 120.9 | 97.8 | 119.1 | 145.8 |
| 65° | 112.0 | 90.7 | 76.4 | 90.7 | 110.2 |
| 67.5° | 81.8 | 67.5 | 58.7 | 67.5 | 83.5 |
| 70° | 60.4 | 51.6 | 44.4 | 49.8 | 60.4 |
| 72.5° | 44.4 | 37.3 | 33.8 | 37.3 | 44.4 |
| 75° | 30.2 | 26.7 | 24.9 | 26.7 | 30.2 |
| 77.5° | 21.3 | 19.6 | 17.8 | 19.6 | 21.3 |
| 80° | 14.2 | 12.4 | 12.4 | 14.2 | 14.2 |
| 82.5° | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| 85° | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| 87.5° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 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)