

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: P799886

Luminaire Tested: **LD6C55D010 EU6559050 6LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C55D010 EU6559050 6LBMDSWGPH
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

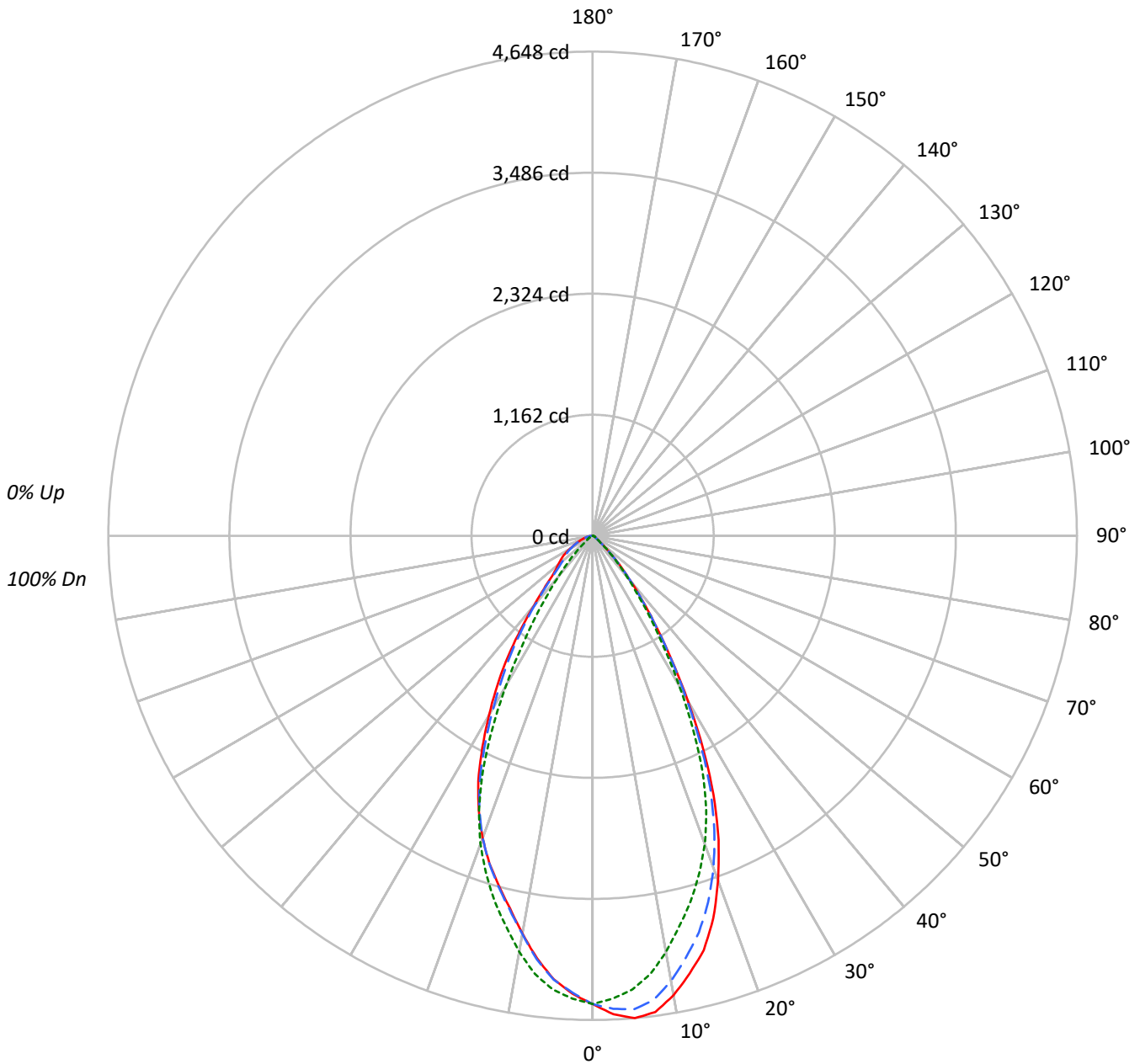
Lumens per Lamp: N/A
Luminaire Lumens: 3870.0 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
Input Voltage (V): NR
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

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Luminous Intensity Polar Plot





TEST NUMBER: P799886

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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 | 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 | 97 | 95 | 94 | 92 | | | | | | | | |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 93 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 | | | | | | | | |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 85 | 83 | 80 | 78 | | | | | | | | |
| 4 | 96 | 88 | 82 | 77 | 94 | 87 | 81 | 77 | 84 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 73 | | | | | | | | |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 67 | | | | | | | | |
| 6 | 86 | 77 | 70 | 66 | 84 | 76 | 70 | 66 | 74 | 69 | 65 | 73 | 68 | 65 | 71 | 67 | 64 | 63 | | | | | | | | |
| 7 | 82 | 72 | 66 | 61 | 80 | 71 | 65 | 61 | 70 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 59 | | | | | | | | |
| 8 | 78 | 68 | 61 | 57 | 76 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 56 | 55 | | | | | | | | |
| 9 | 74 | 64 | 58 | 54 | 73 | 63 | 58 | 54 | 62 | 57 | 53 | 61 | 57 | 53 | 61 | 56 | 53 | 52 | | | | | | | | |
| 10 | 70 | 60 | 54 | 50 | 69 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 50 | 58 | 53 | 50 | 49 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 246417 | 246417 | 246417 |
| 5° | 255783 | 240633 | 235191 |
| 10° | 249244 | 225714 | 215783 |
| 15° | 233758 | 206244 | 197328 |
| 20° | 205211 | 183603 | 180096 |
| 25° | 165971 | 150843 | 157055 |
| 30° | 115385 | 105073 | 125697 |
| 35° | 71119 | 64367 | 94863 |
| 40° | 40247 | 36082 | 63004 |
| 45° | 19545 | 18645 | 42997 |
| 50° | 7445 | 7445 | 36553 |
| 55° | 4081 | 4817 | 33729 |
| 60° | 2971 | 3826 | 27640 |
| 65° | 2516 | 3269 | 22635 |
| 70° | 2180 | 2805 | 18641 |
| 75° | 2055 | 2881 | 16013 |
| 80° | 1231 | 2462 | 11618 |
| 85° | 1195 | 4906 | 11007 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 411.5 | 10.6 |
| 10°-20° | 1034.2 | 26.7 |
| 20°-30° | 1164.3 | 30.1 |
| 30°-40° | 720.9 | 18.6 |
| 40°-50° | 287.1 | 7.4 |
| 50°-60° | 130.7 | 3.4 |
| 60°-70° | 75.1 | 1.9 |
| 70°-80° | 35.7 | 0.9 |
| 80°-90° | 10.4 | 0.3 |
| 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° | 2610.0 | 67.4 |
| 0°-40° | 3331.0 | 86.1 |
| 0°-60° | 3748.8 | 96.9 |
| 0°-90° | 3870.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3870.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 4495 | 4495 | 4495 | 4495 | 4495 | |
| 5° | 4648 | 4563 | 4373 | 4278 | 4274 | 438 |
| 15° | 4119 | 3940 | 3634 | 3487 | 3477 | 1140 |
| 25° | 2744 | 2670 | 2494 | 2556 | 2596 | 1233 |
| 35° | 1063 | 1057 | 962 | 1340 | 1418 | 683 |
| 45° | 252 | 252 | 240 | 524 | 555 | 214 |
| 55° | 43 | 41 | 50 | 310 | 353 | 42 |
| 65° | 19 | 18 | 25 | 173 | 174 | 19 |
| 75° | 10 | 10 | 14 | 74 | 76 | 10 |
| 85° | 2 | 2 | 8 | 18 | 18 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799886

CATALOG NUMBER: LD6C55D010 EU6559050 6LBMDSWGPB

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4495.0 | 4495.0 | 4495.0 | 4495.0 | 4495.0 | 4495.0 | 4495.0 | 4495.0 | 4495.0 |
| 2.5° | 4597.7 | 4555.1 | 4545.4 | 4508.5 | 4446.5 | 4411.6 | 4390.2 | 4374.7 | 4401.9 |
| 5° | 4648.1 | 4601.6 | 4562.8 | 4487.2 | 4372.8 | 4308.8 | 4277.8 | 4252.6 | 4273.9 |
| 7.5° | 4611.3 | 4545.4 | 4493.0 | 4388.3 | 4242.9 | 4144.0 | 4101.3 | 4072.2 | 4091.6 |
| 10° | 4477.5 | 4398.0 | 4337.9 | 4213.8 | 4054.8 | 3936.5 | 3884.1 | 3857.0 | 3876.4 |
| 12.5° | 4303.0 | 4237.0 | 4145.9 | 4010.2 | 3839.5 | 3715.4 | 3676.6 | 3655.3 | 3663.1 |
| 15° | 4118.8 | 4041.2 | 3940.4 | 3804.6 | 3634.0 | 3509.9 | 3486.6 | 3473.0 | 3476.9 |
| 17.5° | 3851.2 | 3775.5 | 3688.3 | 3556.4 | 3399.3 | 3298.5 | 3298.5 | 3288.8 | 3294.6 |
| 20° | 3517.6 | 3476.9 | 3391.6 | 3281.0 | 3147.2 | 3056.1 | 3085.2 | 3075.5 | 3087.1 |
| 22.5° | 3156.9 | 3125.9 | 3052.2 | 2961.1 | 2848.6 | 2776.9 | 2840.9 | 2838.9 | 2854.4 |
| 25° | 2743.9 | 2720.6 | 2670.2 | 2592.6 | 2493.8 | 2449.1 | 2555.8 | 2555.8 | 2596.5 |
| 27.5° | 2288.2 | 2264.9 | 2230.0 | 2164.1 | 2082.6 | 2069.1 | 2226.1 | 2245.5 | 2290.1 |
| 30° | 1822.8 | 1807.3 | 1787.9 | 1727.8 | 1659.9 | 1685.1 | 1902.3 | 1935.3 | 1985.7 |
| 32.5° | 1407.8 | 1398.1 | 1392.3 | 1338.0 | 1277.9 | 1361.3 | 1609.5 | 1652.2 | 1702.6 |
| 35° | 1062.7 | 1041.3 | 1056.8 | 1016.1 | 961.8 | 1066.5 | 1340.0 | 1376.8 | 1417.5 |
| 37.5° | 783.4 | 767.9 | 781.5 | 752.4 | 703.9 | 818.3 | 1076.2 | 1099.5 | 1126.6 |
| 40° | 562.4 | 548.8 | 560.4 | 543.0 | 504.2 | 610.8 | 843.5 | 868.7 | 880.4 |
| 42.5° | 399.5 | 376.2 | 387.8 | 374.3 | 354.9 | 459.6 | 663.2 | 686.5 | 690.3 |
| 45° | 252.1 | 244.3 | 252.1 | 244.3 | 240.5 | 341.3 | 523.6 | 544.9 | 554.6 |
| 47.5° | 153.2 | 143.5 | 143.5 | 139.6 | 143.5 | 252.1 | 432.4 | 463.5 | 479.0 |
| 50° | 87.3 | 83.4 | 81.4 | 79.5 | 87.3 | 197.8 | 374.3 | 409.2 | 428.6 |
| 52.5° | 58.2 | 56.2 | 56.2 | 54.3 | 64.0 | 166.8 | 337.4 | 368.4 | 387.8 |
| 55° | 42.7 | 40.7 | 40.7 | 40.7 | 50.4 | 143.5 | 310.3 | 335.5 | 352.9 |
| 57.5° | 33.0 | 33.0 | 33.0 | 31.0 | 42.7 | 122.2 | 277.3 | 290.9 | 304.4 |
| 60° | 27.1 | 25.2 | 25.2 | 25.2 | 34.9 | 104.7 | 238.5 | 244.3 | 252.1 |
| 62.5° | 21.3 | 21.3 | 21.3 | 21.3 | 29.1 | 93.1 | 205.6 | 205.6 | 209.4 |
| 65° | 19.4 | 17.5 | 17.5 | 17.5 | 25.2 | 81.4 | 172.6 | 170.6 | 174.5 |
| 67.5° | 15.5 | 15.5 | 15.5 | 15.5 | 21.3 | 69.8 | 141.6 | 139.6 | 143.5 |
| 70° | 13.6 | 13.6 | 13.6 | 13.6 | 17.5 | 58.2 | 114.4 | 112.5 | 116.3 |
| 72.5° | 11.6 | 11.6 | 11.6 | 11.6 | 15.5 | 48.5 | 91.1 | 91.1 | 93.1 |
| 75° | 9.7 | 9.7 | 9.7 | 9.7 | 13.6 | 36.8 | 73.7 | 73.7 | 75.6 |
| 77.5° | 7.8 | 7.8 | 7.8 | 7.8 | 9.7 | 29.1 | 56.2 | 54.3 | 54.3 |
| 80° | 3.9 | 5.8 | 5.8 | 5.8 | 7.8 | 21.3 | 40.7 | 36.8 | 36.8 |
| 82.5° | 1.9 | 3.9 | 3.9 | 3.9 | 7.8 | 15.5 | 27.1 | 25.2 | 25.2 |
| 85° | 1.9 | 1.9 | 1.9 | 5.8 | 7.8 | 11.6 | 17.5 | 17.5 | 17.5 |
| 87.5° | 0.0 | 1.9 | 3.9 | 7.8 | 9.7 | 9.7 | 11.6 | 9.7 | 9.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 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)