

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P580249

Luminaire Tested: **HCC4W25D010MB-HM40525940-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W25D010MB-HM40525940-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

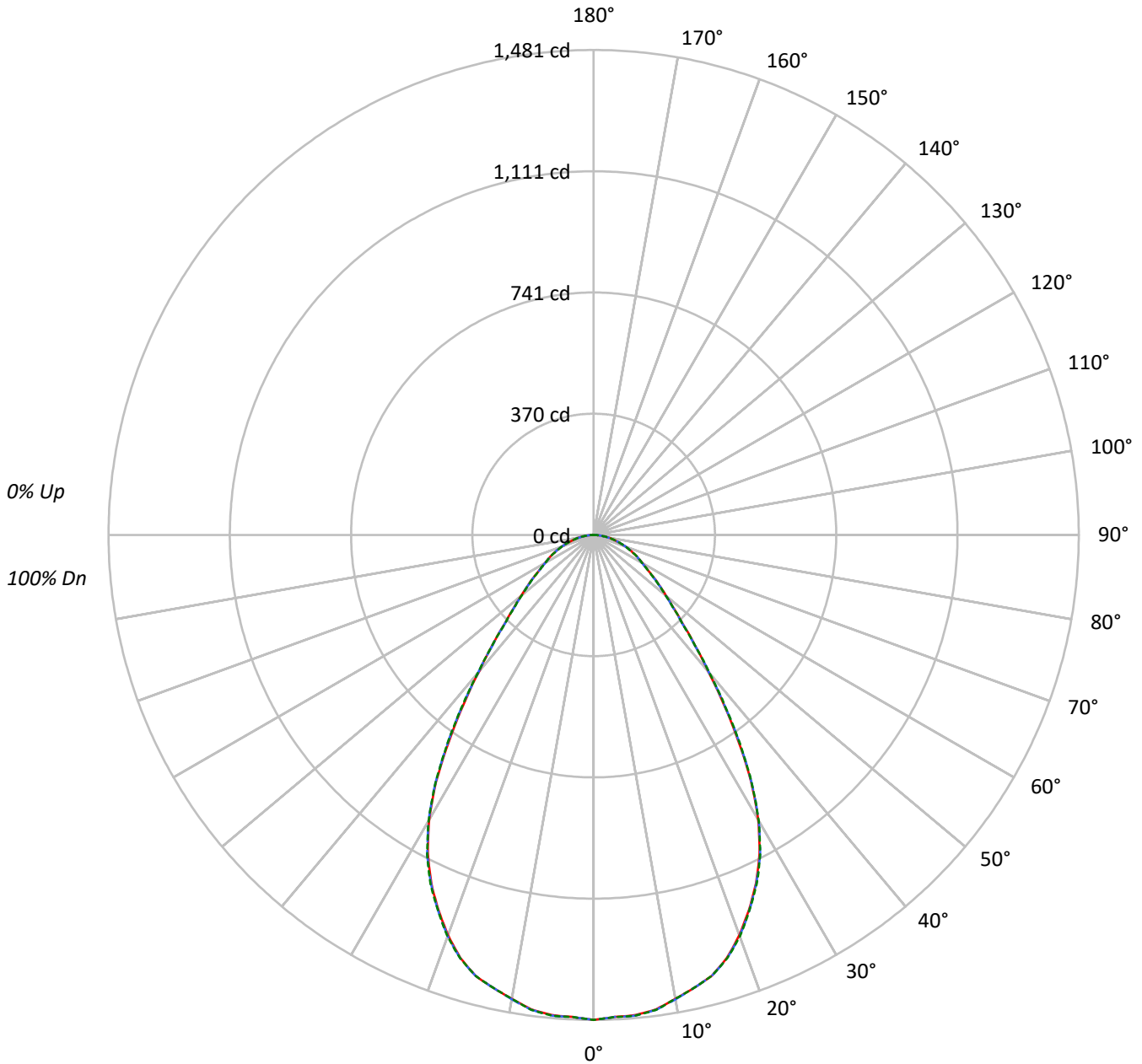
Lumens per Lamp: N/A
Luminaire Lumens: 2285.4 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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



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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 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 94 | 92 | 90 | 89 | | | | | | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | | | | |
| 3 | 96 | 87 | 81 | 76 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | 81 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | |
| 4 | 90 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 | | | | | | | | |
| 5 | 84 | 73 | 65 | 60 | 82 | 72 | 65 | 59 | 70 | 64 | 59 | 68 | 63 | 58 | 66 | 62 | 58 | 56 | | | | | | | | |
| 6 | 78 | 67 | 59 | 54 | 77 | 66 | 59 | 54 | 64 | 58 | 53 | 63 | 57 | 53 | 61 | 56 | 53 | 51 | | | | | | | | |
| 7 | 73 | 62 | 54 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 49 | 58 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | | | | |
| 8 | 69 | 57 | 50 | 45 | 68 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 53 | 48 | 44 | 42 | | | | | | | | |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 | | | | | | | | |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 48 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 182700 | 182700 | 182700 |
| 5° | 182258 | 182456 | 182456 |
| 10° | 180132 | 180333 | 180132 |
| 15° | 177984 | 177984 | 177984 |
| 20° | 170680 | 171073 | 171283 |
| 25° | 159642 | 159846 | 160254 |
| 30° | 143054 | 143481 | 143481 |
| 35° | 116125 | 117059 | 117285 |
| 40° | 87641 | 88156 | 88382 |
| 45° | 67141 | 66862 | 66862 |
| 50° | 55303 | 55035 | 55035 |
| 55° | 47482 | 47160 | 47160 |
| 60° | 42357 | 42012 | 42012 |
| 65° | 39839 | 39839 | 39839 |
| 70° | 37038 | 37038 | 37038 |
| 75° | 33646 | 34313 | 33646 |
| 80° | 31609 | 30473 | 31609 |
| 85° | 26040 | 26040 | 26040 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 139.6 | 6.1 |
| 10°-20° | 390.5 | 17.1 |
| 20°-30° | 536.6 | 23.5 |
| 30°-40° | 482.5 | 21.1 |
| 40°-50° | 304.9 | 13.3 |
| 50°-60° | 199.1 | 8.7 |
| 60°-70° | 134.9 | 5.9 |
| 70°-80° | 75.9 | 3.3 |
| 80°-90° | 21.3 | 0.9 |
| 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° | 1066.7 | 46.7 |
| 0°-40° | 1549.3 | 67.8 |
| 0°-60° | 2053.3 | 89.8 |
| 0°-90° | 2285.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2285.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1481 | 1481 | 1481 | 1481 | 1481 | |
| 5° | 1472 | 1472 | 1474 | 1474 | 1474 | 139 |
| 15° | 1394 | 1394 | 1394 | 1394 | 1394 | 390 |
| 25° | 1173 | 1174 | 1174 | 1178 | 1178 | 535 |
| 35° | 771 | 774 | 777 | 780 | 779 | 480 |
| 45° | 385 | 383 | 383 | 383 | 383 | 305 |
| 55° | 221 | 221 | 219 | 221 | 219 | 200 |
| 65° | 136 | 136 | 136 | 136 | 136 | 135 |
| 75° | 71 | 72 | 72 | 72 | 71 | 76 |
| 85° | 18 | 18 | 18 | 18 | 18 | 22 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1481.2 | 1481.2 | 1481.2 | 1481.2 | 1481.2 |
| 2.5° | 1473.6 | 1473.6 | 1473.6 | 1473.6 | 1473.6 |
| 5° | 1472.0 | 1472.0 | 1473.6 | 1473.6 | 1473.6 |
| 7.5° | 1461.3 | 1462.8 | 1462.8 | 1462.8 | 1462.8 |
| 10° | 1438.2 | 1438.2 | 1439.8 | 1439.8 | 1438.2 |
| 12.5° | 1416.8 | 1416.8 | 1416.8 | 1418.4 | 1416.8 |
| 15° | 1393.8 | 1393.8 | 1393.8 | 1393.8 | 1393.8 |
| 17.5° | 1353.9 | 1355.5 | 1355.5 | 1355.5 | 1355.5 |
| 20° | 1300.3 | 1303.3 | 1303.3 | 1304.9 | 1304.9 |
| 22.5° | 1239.0 | 1240.4 | 1242.0 | 1243.5 | 1242.0 |
| 25° | 1173.0 | 1174.5 | 1174.5 | 1177.5 | 1177.5 |
| 27.5° | 1096.4 | 1097.8 | 1100.9 | 1100.9 | 1100.9 |
| 30° | 1004.4 | 1005.8 | 1007.4 | 1007.4 | 1007.4 |
| 32.5° | 895.5 | 895.5 | 898.6 | 900.0 | 898.6 |
| 35° | 771.2 | 774.4 | 777.4 | 780.5 | 778.9 |
| 37.5° | 653.2 | 656.3 | 657.8 | 657.8 | 659.3 |
| 40° | 544.3 | 547.5 | 547.5 | 550.5 | 548.9 |
| 42.5° | 458.5 | 456.9 | 456.9 | 460.0 | 458.5 |
| 45° | 384.9 | 383.3 | 383.3 | 383.3 | 383.3 |
| 47.5° | 331.2 | 329.7 | 329.7 | 329.7 | 329.7 |
| 50° | 288.2 | 286.8 | 286.8 | 286.8 | 286.8 |
| 52.5° | 253.0 | 251.4 | 251.4 | 251.4 | 250.0 |
| 55° | 220.8 | 220.8 | 219.3 | 220.8 | 219.3 |
| 57.5° | 191.7 | 191.7 | 191.7 | 191.7 | 191.7 |
| 60° | 171.7 | 170.3 | 170.3 | 170.3 | 170.3 |
| 62.5° | 153.3 | 153.3 | 153.3 | 153.3 | 153.3 |
| 65° | 136.5 | 136.5 | 136.5 | 136.5 | 136.5 |
| 67.5° | 119.6 | 118.1 | 119.6 | 119.6 | 118.1 |
| 70° | 102.7 | 101.2 | 102.7 | 102.7 | 102.7 |
| 72.5° | 85.9 | 85.9 | 85.9 | 87.4 | 85.9 |
| 75° | 70.6 | 72.0 | 72.0 | 72.0 | 70.6 |
| 77.5° | 56.8 | 58.3 | 56.8 | 56.8 | 56.8 |
| 80° | 44.5 | 42.9 | 42.9 | 42.9 | 44.5 |
| 82.5° | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 |
| 85° | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 |
| 87.5° | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

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