

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: P581437

Luminaire Tested: **HCC4W07D010MB-HM40525830-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581437
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: HCC4W07D010MB-HM40525830-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

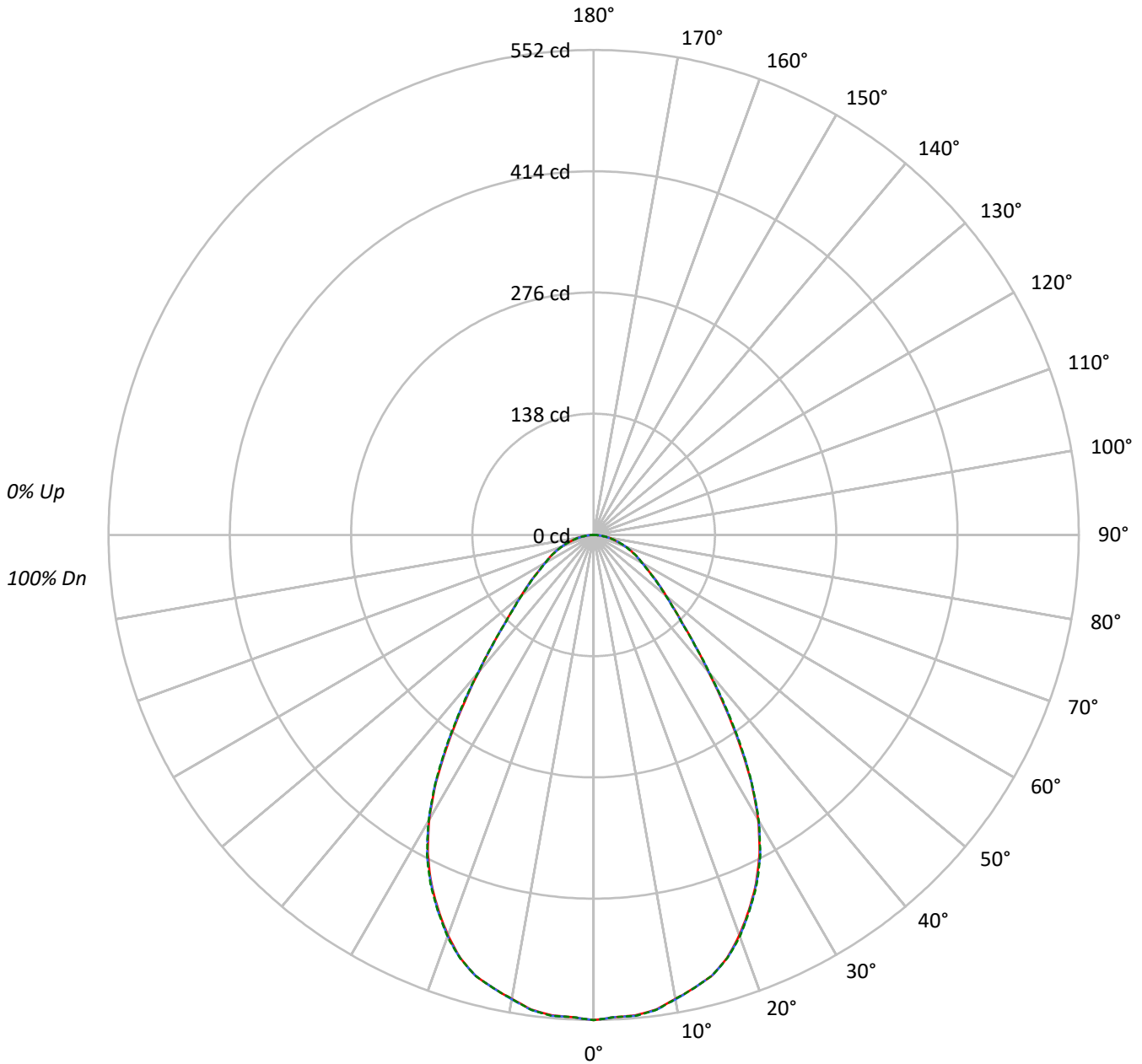
Lumens per Lamp: N/A
Luminaire Lumens: 852.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | 68 | 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° | 68124 | 68124 | 68124 |
| 5° | 67963 | 68025 | 68025 |
| 10° | 67158 | 67233 | 67158 |
| 15° | 66351 | 66351 | 66351 |
| 20° | 63636 | 63780 | 63859 |
| 25° | 59515 | 59597 | 59747 |
| 30° | 53325 | 53481 | 53481 |
| 35° | 43306 | 43637 | 43728 |
| 40° | 32670 | 32847 | 32944 |
| 45° | 25032 | 24927 | 24927 |
| 50° | 20609 | 20513 | 20513 |
| 55° | 17698 | 17569 | 17569 |
| 60° | 15813 | 15665 | 15665 |
| 65° | 14856 | 14856 | 14856 |
| 70° | 13849 | 13849 | 13849 |
| 75° | 12534 | 12820 | 12534 |
| 80° | 11791 | 11365 | 11791 |
| 85° | 9624 | 9624 | 9624 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.0 | 6.1 |
| 10°-20° | 145.6 | 17.1 |
| 20°-30° | 200.1 | 23.5 |
| 30°-40° | 179.9 | 21.1 |
| 40°-50° | 113.7 | 13.3 |
| 50°-60° | 74.2 | 8.7 |
| 60°-70° | 50.3 | 5.9 |
| 70°-80° | 28.3 | 3.3 |
| 80°-90° | 7.9 | 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° | 397.7 | 46.7 |
| 0°-40° | 577.6 | 67.8 |
| 0°-60° | 765.5 | 89.8 |
| 0°-90° | 852.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 852.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 552 | 552 | 552 | 552 | 552 | |
| 5° | 549 | 549 | 549 | 549 | 549 | 52 |
| 15° | 520 | 520 | 520 | 520 | 520 | 145 |
| 25° | 437 | 438 | 438 | 439 | 439 | 200 |
| 35° | 288 | 289 | 290 | 291 | 290 | 179 |
| 45° | 144 | 143 | 143 | 143 | 143 | 114 |
| 55° | 82 | 82 | 82 | 82 | 82 | 74 |
| 65° | 51 | 51 | 51 | 51 | 51 | 50 |
| 75° | 26 | 27 | 27 | 27 | 26 | 28 |
| 85° | 7 | 7 | 7 | 7 | 7 | 8 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 552.3 | 552.3 | 552.3 | 552.3 | 552.3 |
| 2.5° | 549.4 | 549.4 | 549.4 | 549.4 | 549.4 |
| 5° | 548.9 | 548.9 | 549.4 | 549.4 | 549.4 |
| 7.5° | 544.8 | 545.3 | 545.3 | 545.3 | 545.3 |
| 10° | 536.2 | 536.2 | 536.8 | 536.8 | 536.2 |
| 12.5° | 528.3 | 528.3 | 528.3 | 528.8 | 528.3 |
| 15° | 519.6 | 519.6 | 519.6 | 519.6 | 519.6 |
| 17.5° | 504.8 | 505.4 | 505.4 | 505.4 | 505.4 |
| 20° | 484.8 | 485.9 | 485.9 | 486.5 | 486.5 |
| 22.5° | 461.9 | 462.5 | 463.1 | 463.6 | 463.1 |
| 25° | 437.3 | 437.9 | 437.9 | 439.0 | 439.0 |
| 27.5° | 408.8 | 409.3 | 410.5 | 410.5 | 410.5 |
| 30° | 374.4 | 375.0 | 375.5 | 375.5 | 375.5 |
| 32.5° | 333.9 | 333.9 | 335.0 | 335.6 | 335.0 |
| 35° | 287.6 | 288.7 | 289.8 | 291.0 | 290.4 |
| 37.5° | 243.5 | 244.7 | 245.2 | 245.2 | 245.8 |
| 40° | 202.9 | 204.0 | 204.0 | 205.2 | 204.6 |
| 42.5° | 170.9 | 170.4 | 170.4 | 171.5 | 170.9 |
| 45° | 143.5 | 142.9 | 142.9 | 142.9 | 142.9 |
| 47.5° | 123.5 | 122.9 | 122.9 | 122.9 | 122.9 |
| 50° | 107.4 | 106.9 | 106.9 | 106.9 | 106.9 |
| 52.5° | 94.3 | 93.8 | 93.8 | 93.8 | 93.2 |
| 55° | 82.3 | 82.3 | 81.7 | 82.3 | 81.7 |
| 57.5° | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 |
| 60° | 64.1 | 63.5 | 63.5 | 63.5 | 63.5 |
| 62.5° | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 |
| 65° | 50.9 | 50.9 | 50.9 | 50.9 | 50.9 |
| 67.5° | 44.6 | 44.0 | 44.6 | 44.6 | 44.0 |
| 70° | 38.4 | 37.8 | 38.4 | 38.4 | 38.4 |
| 72.5° | 32.0 | 32.0 | 32.0 | 32.5 | 32.0 |
| 75° | 26.3 | 26.9 | 26.9 | 26.9 | 26.3 |
| 77.5° | 21.2 | 21.7 | 21.2 | 21.2 | 21.2 |
| 80° | 16.6 | 16.0 | 16.0 | 16.0 | 16.6 |
| 82.5° | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 |
| 85° | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 |
| 87.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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

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