

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: P581532

Luminaire Tested: **HCC4W07D010MB-HM40525935-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W07D010MB-HM40525935-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

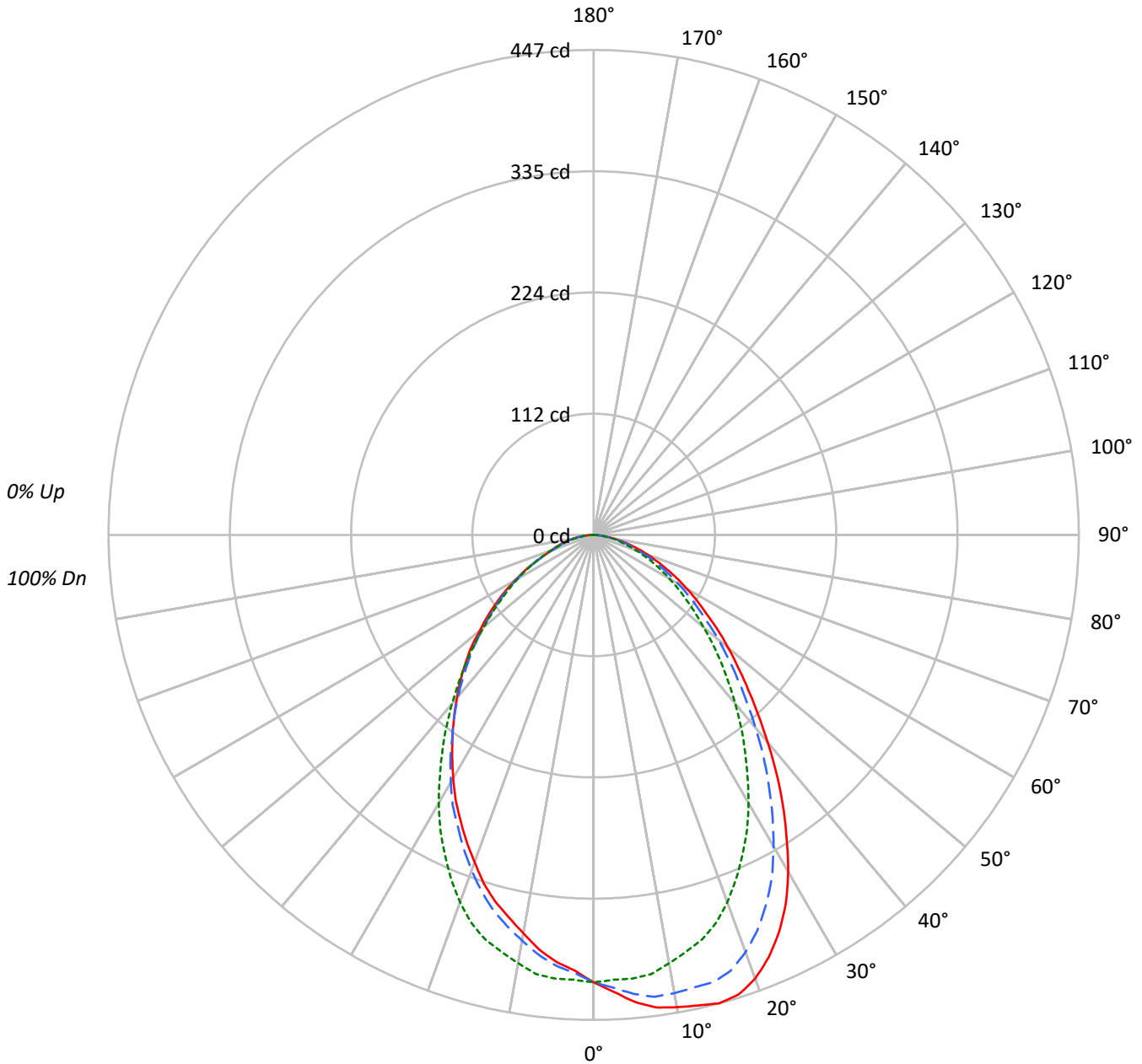
Lumens per Lamp: N/A
Luminaire Lumens: 799.9 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): 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 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 87 | 83 | 89 | 85 | 81 | 86 | 82 | 79 | 83 | 80 | 77 | 75 | | | | | | | | |
| 3 | 94 | 85 | 77 | 72 | 92 | 83 | 76 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | | | | |
| 4 | 87 | 76 | 68 | 62 | 85 | 75 | 68 | 62 | 72 | 66 | 61 | 70 | 65 | 60 | 68 | 63 | 60 | 58 | | | | | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 60 | 55 | 66 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | 51 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 54 | 49 | 60 | 53 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 46 | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 68 | 57 | 49 | 44 | 55 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 41 | | | | | | | | |
| 8 | 65 | 53 | 45 | 40 | 64 | 52 | 45 | 40 | 51 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 | | | | | | | | |
| 9 | 61 | 49 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | | | | | | |
| 10 | 58 | 45 | 38 | 33 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 42 | 37 | 33 | 31 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 50868 | 50868 | 50868 |
| 5° | 53489 | 50814 | 48908 |
| 10° | 55372 | 50200 | 46680 |
| 15° | 57068 | 49291 | 44681 |
| 20° | 57125 | 47267 | 42109 |
| 25° | 54983 | 44177 | 39495 |
| 30° | 51060 | 40649 | 36874 |
| 35° | 45745 | 36590 | 34121 |
| 40° | 40141 | 32654 | 31527 |
| 45° | 35097 | 28904 | 29079 |
| 50° | 30991 | 25291 | 26212 |
| 55° | 27332 | 22451 | 23569 |
| 60° | 24422 | 19859 | 20623 |
| 65° | 21627 | 17482 | 17482 |
| 70° | 18934 | 14894 | 14894 |
| 75° | 16156 | 12629 | 14154 |
| 80° | 12786 | 11294 | 12786 |
| 85° | 8208 | 9624 | 11888 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 39.1 | 4.9 |
| 10°-20° | 110.0 | 13.8 |
| 20°-30° | 154.2 | 19.3 |
| 30°-40° | 158.8 | 19.9 |
| 40°-50° | 135.2 | 16.9 |
| 50°-60° | 100.2 | 12.5 |
| 60°-70° | 62.9 | 7.9 |
| 70°-80° | 31.2 | 3.9 |
| 80°-90° | 8.2 | 1.0 |
| 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° | 303.3 | 37.9 |
| 0°-40° | 462.1 | 57.8 |
| 0°-60° | 697.5 | 87.2 |
| 0°-90° | 799.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 799.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 412 | 412 | 412 | 412 | 412 | |
| 5° | 432 | 425 | 410 | 399 | 395 | 42 |
| 15° | 447 | 427 | 386 | 358 | 350 | 126 |
| 25° | 404 | 376 | 325 | 296 | 290 | 185 |
| 35° | 304 | 281 | 243 | 227 | 227 | 189 |
| 45° | 201 | 187 | 166 | 162 | 167 | 156 |
| 55° | 127 | 117 | 104 | 106 | 110 | 115 |
| 65° | 74 | 67 | 60 | 59 | 60 | 74 |
| 75° | 34 | 30 | 26 | 29 | 30 | 36 |
| 85° | 6 | 6 | 7 | 8 | 8 | 8 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0° | 412.4 | 412.4 | 412.4 | 412.4 | 412.4 | 412.4 | 412.4 | 412.4 | 412.4 |
| 2.5° | 421.4 | 419.8 | 417.8 | 414.0 | 410.4 | 407.2 | 404.0 | 402.4 | 401.8 |
| 5° | 432.0 | 428.8 | 424.6 | 417.8 | 410.4 | 404.0 | 398.6 | 396.0 | 395.0 |
| 7.5° | 439.4 | 436.3 | 429.4 | 418.8 | 408.2 | 398.6 | 390.2 | 386.5 | 385.4 |
| 10° | 442.1 | 438.4 | 428.8 | 414.6 | 400.8 | 389.1 | 379.6 | 374.9 | 372.7 |
| 12.5° | 444.2 | 439.4 | 427.2 | 410.4 | 393.4 | 379.1 | 369.1 | 362.7 | 361.1 |
| 15° | 446.9 | 441.5 | 426.7 | 406.0 | 386.0 | 369.1 | 357.9 | 352.1 | 349.9 |
| 17.5° | 444.2 | 438.4 | 420.9 | 397.6 | 374.9 | 356.3 | 344.1 | 338.9 | 336.7 |
| 20° | 435.2 | 428.8 | 409.2 | 384.4 | 360.1 | 340.9 | 328.8 | 323.5 | 320.8 |
| 22.5° | 421.4 | 414.6 | 394.4 | 367.9 | 343.1 | 324.6 | 313.0 | 307.6 | 306.0 |
| 25° | 404.0 | 397.0 | 375.9 | 348.9 | 324.6 | 306.6 | 296.4 | 291.7 | 290.2 |
| 27.5° | 383.3 | 376.5 | 355.7 | 329.3 | 306.0 | 289.1 | 281.1 | 276.4 | 275.3 |
| 30° | 358.5 | 351.5 | 331.4 | 307.0 | 285.4 | 269.5 | 263.1 | 259.5 | 258.9 |
| 32.5° | 330.9 | 325.1 | 306.6 | 284.3 | 263.7 | 250.5 | 245.7 | 243.0 | 242.5 |
| 35° | 303.8 | 297.6 | 281.1 | 261.1 | 243.0 | 231.4 | 227.1 | 226.6 | 226.6 |
| 37.5° | 276.4 | 270.0 | 256.7 | 238.3 | 222.9 | 212.4 | 210.8 | 211.2 | 211.2 |
| 40° | 249.3 | 243.5 | 231.9 | 216.6 | 202.8 | 194.8 | 194.3 | 195.4 | 195.8 |
| 42.5° | 224.0 | 219.2 | 208.6 | 195.4 | 183.7 | 177.4 | 177.9 | 180.0 | 181.6 |
| 45° | 201.2 | 197.0 | 187.4 | 175.8 | 165.7 | 160.9 | 162.5 | 165.2 | 166.7 |
| 47.5° | 180.5 | 176.8 | 167.9 | 157.3 | 148.7 | 145.6 | 147.7 | 150.9 | 153.1 |
| 50° | 161.5 | 158.3 | 149.9 | 138.7 | 131.8 | 129.7 | 132.3 | 135.5 | 136.6 |
| 52.5° | 144.5 | 141.3 | 132.3 | 122.8 | 117.6 | 116.5 | 119.1 | 121.8 | 123.4 |
| 55° | 127.1 | 124.4 | 117.0 | 108.6 | 104.4 | 103.8 | 106.4 | 108.6 | 109.6 |
| 57.5° | 112.8 | 110.2 | 103.2 | 95.8 | 92.2 | 91.6 | 94.2 | 95.8 | 96.4 |
| 60° | 99.0 | 96.4 | 90.0 | 83.1 | 80.5 | 80.5 | 82.0 | 83.1 | 83.6 |
| 62.5° | 86.3 | 83.6 | 77.8 | 72.0 | 69.9 | 69.9 | 69.9 | 70.4 | 72.0 |
| 65° | 74.1 | 72.0 | 66.7 | 61.5 | 59.9 | 58.7 | 58.7 | 58.7 | 59.9 |
| 67.5° | 63.0 | 60.9 | 56.7 | 51.9 | 50.3 | 48.7 | 48.1 | 49.3 | 49.3 |
| 70° | 52.5 | 50.9 | 46.5 | 42.9 | 41.3 | 39.7 | 39.1 | 41.3 | 41.3 |
| 72.5° | 42.9 | 41.3 | 38.7 | 34.9 | 33.3 | 32.8 | 33.9 | 34.9 | 35.5 |
| 75° | 33.9 | 32.3 | 30.2 | 28.1 | 26.5 | 27.0 | 28.6 | 29.1 | 29.7 |
| 77.5° | 25.4 | 24.9 | 22.8 | 21.2 | 21.2 | 21.7 | 22.8 | 23.8 | 24.4 |
| 80° | 18.0 | 17.5 | 16.4 | 15.4 | 15.9 | 17.0 | 17.5 | 18.5 | 18.0 |
| 82.5° | 11.2 | 11.2 | 10.6 | 10.6 | 11.2 | 12.2 | 12.7 | 13.2 | 13.8 |
| 85° | 5.8 | 5.8 | 5.8 | 6.4 | 6.8 | 7.4 | 8.0 | 8.4 | 8.4 |
| 87.5° | 1.6 | 2.2 | 2.2 | 2.6 | 3.2 | 3.2 | 3.8 | 3.8 | 3.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 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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