

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: P581783

Luminaire Tested: **HCC6W15D010MW-HM60525927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W15D010MW-HM60525927-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

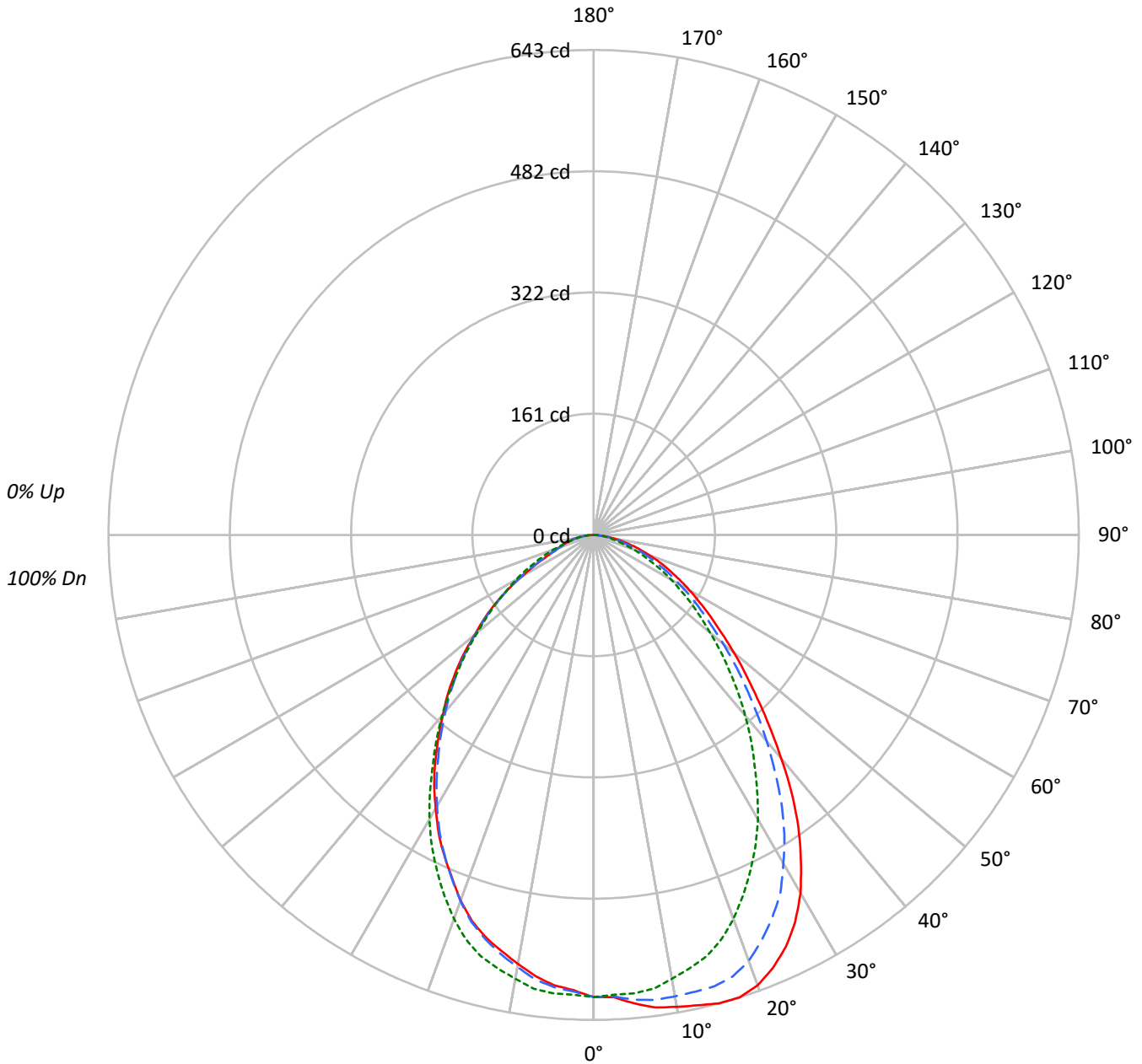
Lumens per Lamp: N/A
Luminaire Lumens: 1199.9 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 70 | 61 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 74 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 46 | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 42 | | | | | | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | | | | |
| 10 | 58 | 46 | 38 | 34 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 33588 | 33588 | 33588 |
| 5° | 34316 | 33579 | 32979 |
| 10° | 35365 | 33266 | 32147 |
| 15° | 36487 | 32827 | 31351 |
| 20° | 37062 | 31590 | 30079 |
| 25° | 36456 | 29717 | 28356 |
| 30° | 34702 | 27555 | 26491 |
| 35° | 31655 | 24869 | 24480 |
| 40° | 27673 | 22342 | 22220 |
| 45° | 23809 | 19669 | 20118 |
| 50° | 20707 | 17134 | 17492 |
| 55° | 18083 | 15034 | 15197 |
| 60° | 16062 | 13025 | 11929 |
| 65° | 14321 | 10974 | 9119 |
| 70° | 12614 | 8992 | 7646 |
| 75° | 10823 | 7096 | 7265 |
| 80° | 8713 | 6093 | 7135 |
| 85° | 5787 | 5284 | 6290 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.0 | 4.8 |
| 10°-20° | 165.1 | 13.8 |
| 20°-30° | 235.8 | 19.6 |
| 30°-40° | 246.9 | 20.6 |
| 40°-50° | 207.9 | 17.3 |
| 50°-60° | 148.0 | 12.3 |
| 60°-70° | 86.6 | 7.2 |
| 70°-80° | 41.0 | 3.4 |
| 80°-90° | 10.5 | 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° | 458.9 | 38.2 |
| 0°-40° | 705.9 | 58.8 |
| 0°-60° | 1061.7 | 88.5 |
| 0°-90° | 1199.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1199.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 613 | 613 | 613 | 613 | 613 | |
| 5° | 624 | 619 | 610 | 602 | 599 | 60 |
| 15° | 643 | 619 | 578 | 555 | 552 | 181 |
| 25° | 603 | 560 | 491 | 468 | 469 | 276 |
| 35° | 473 | 434 | 372 | 359 | 366 | 294 |
| 45° | 307 | 284 | 254 | 254 | 260 | 238 |
| 55° | 189 | 173 | 157 | 157 | 159 | 171 |
| 65° | 110 | 98 | 85 | 71 | 70 | 110 |
| 75° | 51 | 43 | 34 | 33 | 34 | 55 |
| 85° | 9 | 8 | 8 | 10 | 10 | 12 |
| 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° | 612.7 | 612.7 | 612.7 | 612.7 | 612.7 | 612.7 | 612.7 | 612.7 | 612.7 |
| 2.5° | 613.6 | 613.6 | 612.7 | 611.9 | 610.2 | 607.7 | 606.0 | 604.3 | 604.3 |
| 5° | 623.6 | 621.9 | 618.6 | 614.4 | 610.2 | 605.2 | 601.8 | 599.3 | 599.3 |
| 7.5° | 632.0 | 628.6 | 621.9 | 614.4 | 606.9 | 600.2 | 594.3 | 590.9 | 590.1 |
| 10° | 635.3 | 631.1 | 621.1 | 609.4 | 597.6 | 588.4 | 581.7 | 577.5 | 577.5 |
| 12.5° | 638.7 | 633.7 | 620.3 | 603.5 | 588.4 | 575.9 | 569.2 | 565.8 | 565.0 |
| 15° | 642.9 | 636.2 | 619.4 | 598.5 | 578.4 | 564.1 | 554.9 | 552.4 | 552.4 |
| 17.5° | 642.9 | 634.5 | 613.6 | 587.6 | 562.5 | 546.6 | 538.2 | 535.7 | 536.5 |
| 20° | 635.3 | 626.1 | 601.0 | 569.2 | 541.5 | 524.8 | 516.4 | 514.7 | 515.6 |
| 22.5° | 621.1 | 610.2 | 581.7 | 547.4 | 517.3 | 499.7 | 492.1 | 492.1 | 491.3 |
| 25° | 602.7 | 590.9 | 560.0 | 524.0 | 491.3 | 473.7 | 467.8 | 468.8 | 468.8 |
| 27.5° | 578.4 | 566.7 | 535.7 | 497.2 | 464.6 | 447.0 | 442.8 | 444.5 | 445.3 |
| 30° | 548.2 | 535.7 | 503.0 | 465.4 | 435.3 | 417.7 | 415.2 | 417.7 | 418.5 |
| 32.5° | 511.4 | 502.2 | 470.5 | 431.9 | 403.5 | 388.4 | 387.5 | 390.1 | 393.4 |
| 35° | 473.0 | 462.9 | 433.6 | 398.4 | 371.6 | 359.1 | 359.1 | 363.3 | 365.8 |
| 37.5° | 431.1 | 421.0 | 394.2 | 364.9 | 342.3 | 330.6 | 332.3 | 336.5 | 337.3 |
| 40° | 386.7 | 379.2 | 356.6 | 331.4 | 312.2 | 303.0 | 305.5 | 309.7 | 310.5 |
| 42.5° | 344.8 | 338.1 | 319.7 | 297.1 | 283.0 | 276.3 | 279.6 | 284.5 | 286.2 |
| 45° | 307.1 | 299.6 | 284.5 | 265.4 | 253.7 | 250.3 | 254.5 | 257.8 | 259.5 |
| 47.5° | 272.9 | 266.2 | 253.7 | 236.1 | 227.7 | 226.0 | 230.2 | 231.9 | 233.6 |
| 50° | 242.8 | 236.1 | 223.5 | 207.6 | 200.9 | 200.9 | 204.2 | 205.9 | 205.1 |
| 52.5° | 213.5 | 207.6 | 195.9 | 182.5 | 178.3 | 178.3 | 180.8 | 181.6 | 183.3 |
| 55° | 189.2 | 183.3 | 173.3 | 160.7 | 157.3 | 155.7 | 157.3 | 157.3 | 159.0 |
| 57.5° | 166.6 | 161.5 | 152.3 | 140.6 | 136.4 | 134.7 | 133.9 | 133.1 | 134.7 |
| 60° | 146.5 | 142.3 | 132.2 | 122.2 | 118.8 | 114.6 | 111.3 | 107.9 | 108.8 |
| 62.5° | 128.0 | 123.8 | 114.6 | 104.6 | 101.2 | 95.5 | 91.3 | 87.1 | 88.8 |
| 65° | 110.4 | 106.3 | 98.0 | 89.6 | 84.6 | 77.9 | 71.2 | 68.7 | 70.3 |
| 67.5° | 94.5 | 91.3 | 82.9 | 74.5 | 70.3 | 62.8 | 56.1 | 56.1 | 56.9 |
| 70° | 78.7 | 75.4 | 68.7 | 61.1 | 56.1 | 49.4 | 46.9 | 47.7 | 47.7 |
| 72.5° | 64.5 | 62.0 | 55.3 | 48.6 | 43.5 | 39.4 | 39.4 | 40.2 | 41.0 |
| 75° | 51.1 | 49.4 | 42.7 | 36.8 | 33.5 | 31.0 | 32.7 | 33.5 | 34.3 |
| 77.5° | 39.4 | 36.8 | 31.8 | 27.6 | 25.1 | 26.0 | 27.6 | 28.5 | 29.3 |
| 80° | 27.6 | 26.8 | 22.6 | 20.1 | 19.3 | 20.1 | 21.8 | 22.6 | 22.6 |
| 82.5° | 17.6 | 16.7 | 14.2 | 13.4 | 13.4 | 14.2 | 15.9 | 15.9 | 15.9 |
| 85° | 9.2 | 8.4 | 7.5 | 7.5 | 8.4 | 9.2 | 10.0 | 10.0 | 10.0 |
| 87.5° | 3.3 | 2.5 | 3.3 | 3.3 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 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



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

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