

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: P581639

Luminaire Tested: **HCC6W10D010MW-HM60525927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581639
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: HCC6W10D010MW-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

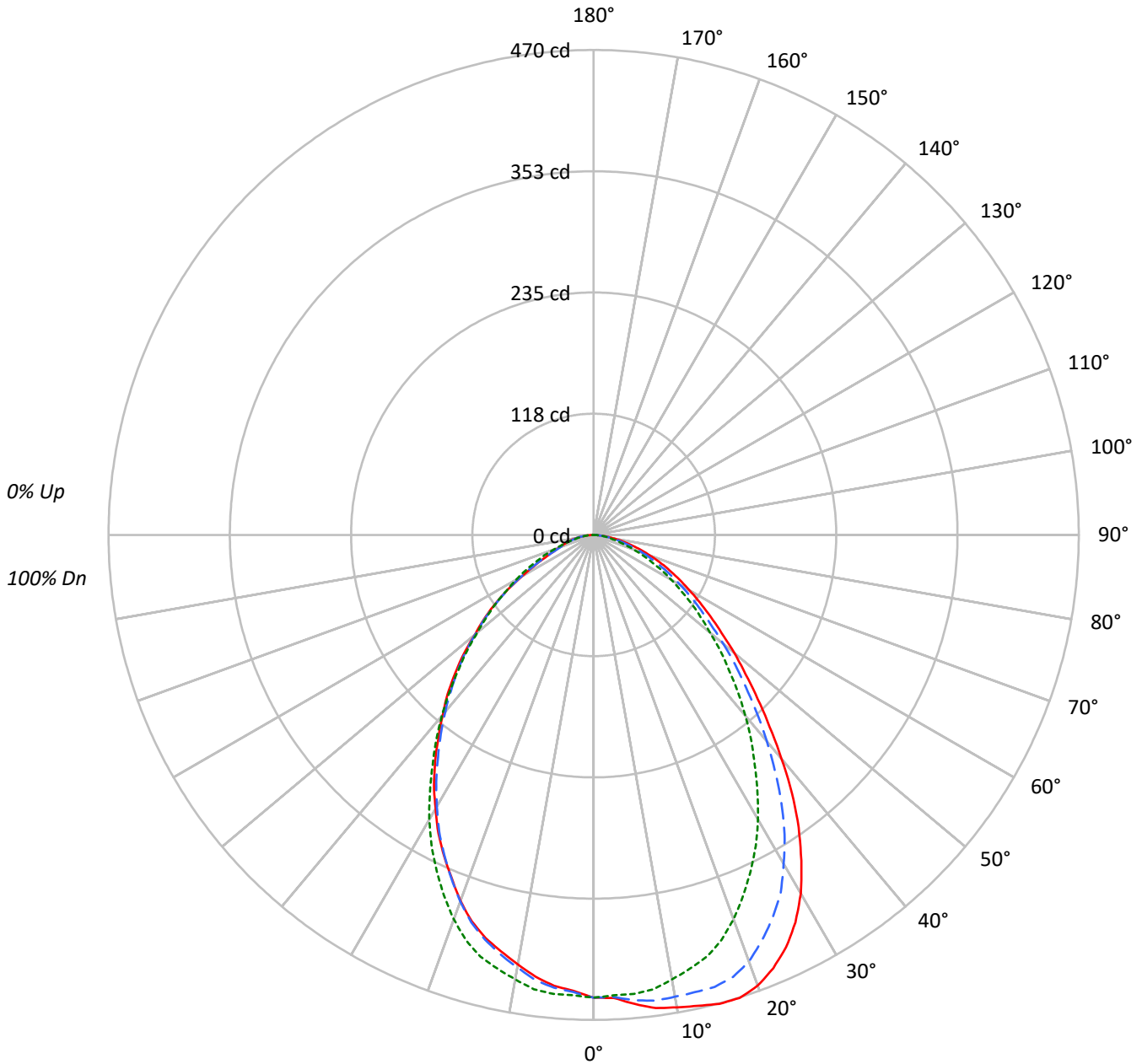
Lumens per Lamp: N/A
Luminaire Lumens: 878.2 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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 | 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° | 24581 | 24581 | 24581 |
| 5° | 25115 | 24576 | 24136 |
| 10° | 25879 | 24348 | 23530 |
| 15° | 26703 | 24024 | 22951 |
| 20° | 27122 | 23120 | 22017 |
| 25° | 26675 | 21751 | 20753 |
| 30° | 25403 | 20161 | 19389 |
| 35° | 23169 | 18203 | 17915 |
| 40° | 20252 | 16359 | 16266 |
| 45° | 17428 | 14389 | 14722 |
| 50° | 15147 | 12537 | 12801 |
| 55° | 13228 | 11001 | 11125 |
| 60° | 11753 | 9528 | 8738 |
| 65° | 10481 | 8029 | 6680 |
| 70° | 9232 | 6588 | 5594 |
| 75° | 7922 | 5189 | 5316 |
| 80° | 6409 | 4420 | 5209 |
| 85° | 4277 | 3837 | 4655 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.5 | 4.8 |
| 10°-20° | 120.9 | 13.8 |
| 20°-30° | 172.5 | 19.6 |
| 30°-40° | 180.7 | 20.6 |
| 40°-50° | 152.2 | 17.3 |
| 50°-60° | 108.3 | 12.3 |
| 60°-70° | 63.4 | 7.2 |
| 70°-80° | 30.0 | 3.4 |
| 80°-90° | 7.7 | 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° | 335.9 | 38.2 |
| 0°-40° | 516.6 | 58.8 |
| 0°-60° | 777.0 | 88.5 |
| 0°-90° | 878.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 878.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 448 | 448 | 448 | 448 | 448 | |
| 5° | 456 | 453 | 447 | 440 | 439 | 44 |
| 15° | 470 | 453 | 423 | 406 | 404 | 133 |
| 25° | 441 | 410 | 360 | 342 | 343 | 202 |
| 35° | 346 | 317 | 272 | 263 | 268 | 215 |
| 45° | 225 | 208 | 186 | 186 | 190 | 175 |
| 55° | 138 | 127 | 115 | 115 | 116 | 125 |
| 65° | 81 | 72 | 62 | 52 | 52 | 81 |
| 75° | 37 | 31 | 24 | 24 | 25 | 40 |
| 85° | 7 | 6 | 6 | 7 | 7 | 9 |
| 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° | 448.4 | 448.4 | 448.4 | 448.4 | 448.4 | 448.4 | 448.4 | 448.4 | 448.4 |
| 2.5° | 449.1 | 449.1 | 448.4 | 447.8 | 446.6 | 444.8 | 443.5 | 442.3 | 442.3 |
| 5° | 456.4 | 455.2 | 452.7 | 449.6 | 446.6 | 443.0 | 440.5 | 438.6 | 438.6 |
| 7.5° | 462.5 | 460.0 | 455.2 | 449.6 | 444.1 | 439.2 | 434.9 | 432.5 | 431.9 |
| 10° | 464.9 | 461.9 | 454.5 | 446.0 | 437.4 | 430.6 | 425.7 | 422.7 | 422.7 |
| 12.5° | 467.4 | 463.8 | 453.9 | 441.7 | 430.6 | 421.4 | 416.6 | 414.1 | 413.5 |
| 15° | 470.5 | 465.6 | 453.4 | 438.0 | 423.3 | 412.8 | 406.2 | 404.4 | 404.4 |
| 17.5° | 470.5 | 464.3 | 449.1 | 430.0 | 411.7 | 400.0 | 393.9 | 392.0 | 392.7 |
| 20° | 464.9 | 458.2 | 439.9 | 416.6 | 396.3 | 384.1 | 378.0 | 376.7 | 377.4 |
| 22.5° | 454.5 | 446.6 | 425.7 | 400.6 | 378.5 | 365.7 | 360.2 | 360.2 | 359.6 |
| 25° | 441.0 | 432.5 | 409.8 | 383.5 | 359.6 | 346.7 | 342.4 | 343.1 | 343.1 |
| 27.5° | 423.3 | 414.8 | 392.0 | 363.9 | 339.9 | 327.1 | 324.1 | 325.3 | 325.9 |
| 30° | 401.3 | 392.0 | 368.1 | 340.6 | 318.5 | 305.6 | 303.8 | 305.6 | 306.3 |
| 32.5° | 374.4 | 367.6 | 344.2 | 316.1 | 295.2 | 284.2 | 283.7 | 285.5 | 287.9 |
| 35° | 346.2 | 338.8 | 317.3 | 291.6 | 272.0 | 262.9 | 262.9 | 265.9 | 267.7 |
| 37.5° | 315.5 | 308.1 | 288.5 | 267.0 | 250.5 | 242.0 | 243.2 | 246.2 | 246.9 |
| 40° | 283.0 | 277.5 | 260.9 | 242.6 | 228.6 | 221.8 | 223.6 | 226.6 | 227.3 |
| 42.5° | 252.4 | 247.5 | 234.0 | 217.5 | 207.0 | 202.2 | 204.7 | 208.3 | 209.5 |
| 45° | 224.8 | 219.3 | 208.3 | 194.3 | 185.6 | 183.2 | 186.2 | 188.7 | 189.9 |
| 47.5° | 199.7 | 194.8 | 185.6 | 172.7 | 166.6 | 165.4 | 168.4 | 169.7 | 170.9 |
| 50° | 177.6 | 172.7 | 163.6 | 151.9 | 147.0 | 147.0 | 149.4 | 150.7 | 150.1 |
| 52.5° | 156.2 | 151.9 | 143.3 | 133.6 | 130.5 | 130.5 | 132.3 | 132.9 | 134.1 |
| 55° | 138.4 | 134.1 | 126.8 | 117.6 | 115.1 | 114.0 | 115.1 | 115.1 | 116.4 |
| 57.5° | 121.9 | 118.2 | 111.5 | 102.9 | 99.8 | 98.6 | 98.0 | 97.4 | 98.6 |
| 60° | 107.2 | 104.1 | 96.8 | 89.4 | 86.9 | 83.9 | 81.5 | 79.0 | 79.7 |
| 62.5° | 93.7 | 90.7 | 83.9 | 76.5 | 74.1 | 69.8 | 66.8 | 63.7 | 65.0 |
| 65° | 80.8 | 77.8 | 71.7 | 65.5 | 61.9 | 56.9 | 52.1 | 50.3 | 51.5 |
| 67.5° | 69.3 | 66.8 | 60.7 | 54.6 | 51.5 | 46.0 | 41.1 | 41.1 | 41.7 |
| 70° | 57.6 | 55.1 | 50.3 | 44.7 | 41.1 | 36.1 | 34.3 | 34.9 | 34.9 |
| 72.5° | 47.2 | 45.3 | 40.4 | 35.5 | 31.8 | 28.8 | 28.8 | 29.4 | 30.0 |
| 75° | 37.4 | 36.1 | 31.2 | 26.9 | 24.5 | 22.6 | 23.9 | 24.5 | 25.1 |
| 77.5° | 28.8 | 26.9 | 23.3 | 20.3 | 18.3 | 19.0 | 20.3 | 20.8 | 21.4 |
| 80° | 20.3 | 19.6 | 16.5 | 14.7 | 14.0 | 14.7 | 16.0 | 16.5 | 16.5 |
| 82.5° | 12.9 | 12.2 | 10.4 | 9.8 | 9.8 | 10.4 | 11.7 | 11.7 | 11.7 |
| 85° | 6.8 | 6.1 | 5.5 | 5.5 | 6.1 | 6.8 | 7.4 | 7.4 | 7.4 |
| 87.5° | 2.5 | 1.8 | 2.5 | 2.5 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| 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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