

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: P581829

Luminaire Tested: **HCC6W15D010MB-HM60525940-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W15D010MB-HM60525940-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

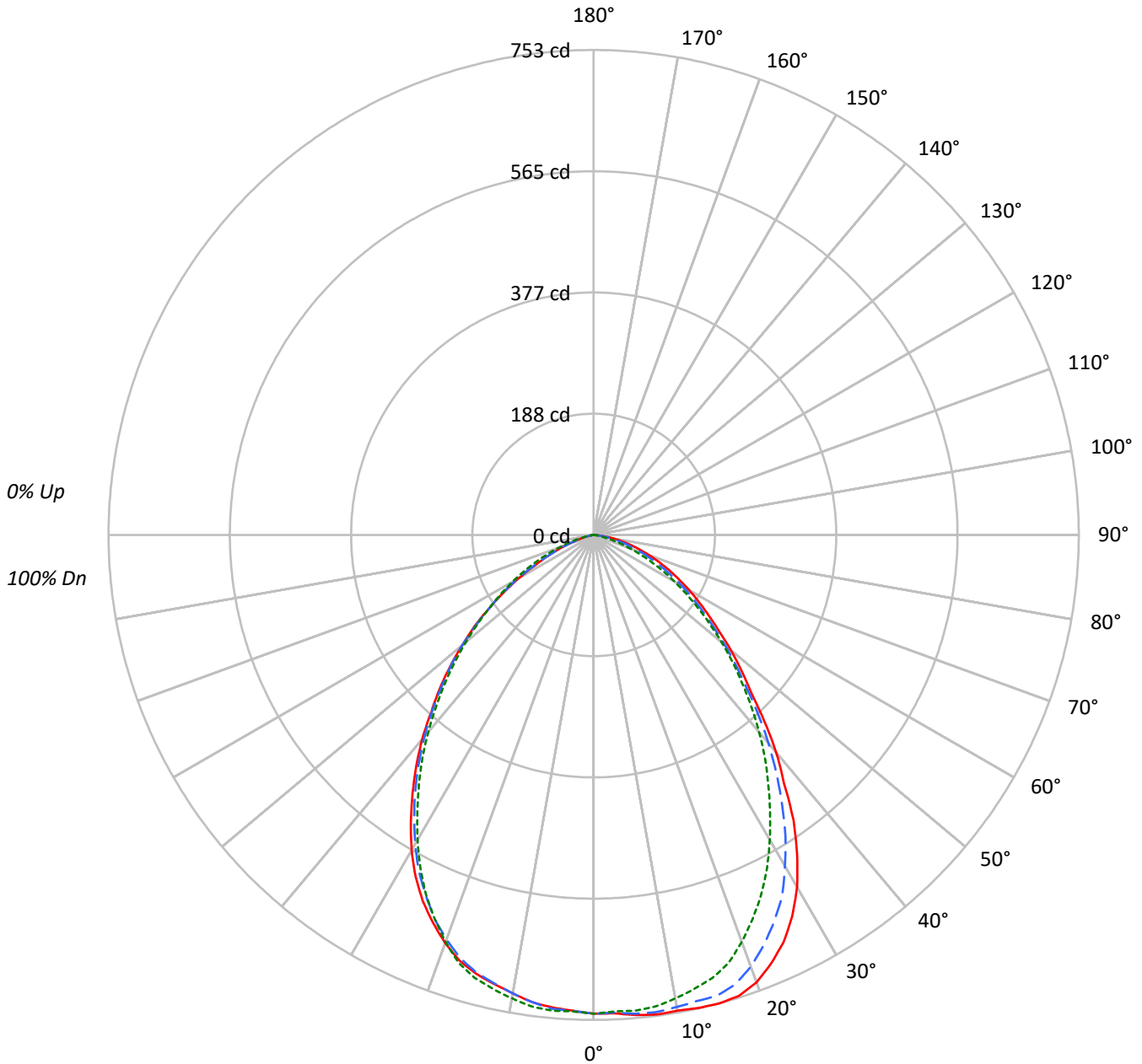
Lumens per Lamp: N/A
Luminaire Lumens: 1456.7 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | 88 | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | 77 | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | 67 | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | 59 | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | 47 | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | 42 | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | 38 | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | 35 | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 40753 | 40753 | 40753 |
| 5° | 41179 | 40799 | 40529 |
| 10° | 41761 | 40675 | 40241 |
| 15° | 42741 | 40420 | 40034 |
| 20° | 43141 | 39221 | 39332 |
| 25° | 42196 | 37242 | 37950 |
| 30° | 39962 | 34600 | 35771 |
| 35° | 36185 | 31621 | 32799 |
| 40° | 31516 | 28582 | 29627 |
| 45° | 26739 | 25305 | 26212 |
| 50° | 23675 | 22097 | 22677 |
| 55° | 20864 | 18905 | 18809 |
| 60° | 18694 | 15920 | 14637 |
| 65° | 16681 | 12764 | 10481 |
| 70° | 14682 | 9200 | 6572 |
| 75° | 12391 | 5571 | 3728 |
| 80° | 9534 | 2462 | 1547 |
| 85° | 5472 | 629 | 629 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 70.6 | 4.8 |
| 10°-20° | 202.8 | 13.9 |
| 20°-30° | 293.2 | 20.1 |
| 30°-40° | 308.5 | 21.2 |
| 40°-50° | 259.3 | 17.8 |
| 50°-60° | 182.0 | 12.5 |
| 60°-70° | 100.1 | 6.9 |
| 70°-80° | 35.6 | 2.4 |
| 80°-90° | 4.7 | 0.3 |
| 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° | 566.5 | 38.9 |
| 0°-40° | 875.0 | 60.1 |
| 0°-60° | 1316.3 | 90.4 |
| 0°-90° | 1456.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1456.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 743 | 743 | 743 | 743 | 743 | |
| 5° | 748 | 746 | 741 | 738 | 736 | 71 |
| 15° | 753 | 740 | 712 | 704 | 705 | 213 |
| 25° | 698 | 662 | 616 | 617 | 627 | 319 |
| 35° | 541 | 510 | 472 | 482 | 490 | 335 |
| 45° | 345 | 335 | 326 | 334 | 338 | 271 |
| 55° | 218 | 207 | 198 | 198 | 197 | 196 |
| 65° | 129 | 115 | 98 | 81 | 81 | 128 |
| 75° | 58 | 47 | 26 | 18 | 18 | 63 |
| 85° | 9 | 5 | 1 | 1 | 1 | 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° | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 |
| 2.5° | 743.4 | 743.4 | 742.4 | 742.4 | 740.5 | 740.5 | 739.5 | 739.5 | 739.5 |
| 5° | 748.3 | 748.3 | 746.3 | 743.4 | 741.4 | 738.5 | 738.5 | 737.5 | 736.5 |
| 7.5° | 751.1 | 750.2 | 747.3 | 743.4 | 738.5 | 733.7 | 731.7 | 732.6 | 731.7 |
| 10° | 750.2 | 748.3 | 744.3 | 736.5 | 730.7 | 723.9 | 722.9 | 722.0 | 722.9 |
| 12.5° | 752.2 | 749.2 | 741.4 | 731.7 | 722.0 | 714.1 | 713.1 | 713.1 | 714.1 |
| 15° | 753.1 | 750.2 | 740.5 | 725.8 | 712.2 | 704.4 | 703.5 | 704.4 | 705.4 |
| 17.5° | 750.2 | 746.3 | 731.7 | 712.2 | 696.7 | 688.8 | 688.8 | 690.8 | 692.7 |
| 20° | 739.5 | 733.7 | 713.1 | 689.7 | 672.3 | 666.4 | 668.4 | 672.3 | 674.2 |
| 22.5° | 720.0 | 713.1 | 689.7 | 663.5 | 645.0 | 640.1 | 645.0 | 649.9 | 651.8 |
| 25° | 697.6 | 689.7 | 662.5 | 635.3 | 615.7 | 609.9 | 616.8 | 624.5 | 627.4 |
| 27.5° | 667.4 | 658.6 | 633.3 | 602.1 | 582.6 | 579.6 | 587.5 | 596.2 | 598.3 |
| 30° | 631.3 | 621.6 | 593.4 | 564.1 | 546.6 | 545.6 | 554.3 | 562.2 | 565.1 |
| 32.5° | 587.5 | 578.7 | 554.3 | 525.2 | 509.5 | 509.5 | 518.4 | 525.2 | 528.1 |
| 35° | 540.7 | 531.0 | 509.5 | 485.2 | 472.5 | 473.5 | 482.3 | 487.1 | 490.1 |
| 37.5° | 485.2 | 482.3 | 465.7 | 445.3 | 436.5 | 438.5 | 445.3 | 449.1 | 452.1 |
| 40° | 440.4 | 432.5 | 421.9 | 405.3 | 399.4 | 401.4 | 408.3 | 412.1 | 414.0 |
| 42.5° | 391.7 | 386.8 | 378.1 | 366.4 | 362.4 | 365.4 | 371.3 | 374.1 | 373.2 |
| 45° | 344.9 | 343.9 | 335.2 | 328.4 | 326.4 | 330.3 | 334.1 | 337.1 | 338.1 |
| 47.5° | 310.8 | 306.9 | 299.1 | 294.2 | 292.3 | 296.2 | 300.1 | 302.0 | 302.0 |
| 50° | 277.6 | 273.8 | 265.9 | 261.2 | 259.1 | 263.1 | 265.9 | 268.0 | 265.9 |
| 52.5° | 244.6 | 240.6 | 233.8 | 228.0 | 227.0 | 228.9 | 230.0 | 230.9 | 232.9 |
| 55° | 218.3 | 214.3 | 206.6 | 199.8 | 197.8 | 198.7 | 197.8 | 197.8 | 196.8 |
| 57.5° | 193.0 | 189.0 | 181.3 | 173.4 | 170.5 | 169.6 | 166.6 | 165.6 | 164.7 |
| 60° | 170.5 | 165.6 | 157.9 | 149.0 | 145.2 | 141.3 | 136.4 | 133.5 | 133.5 |
| 62.5° | 149.0 | 144.1 | 135.4 | 127.7 | 121.8 | 115.0 | 107.1 | 103.3 | 103.3 |
| 65° | 128.6 | 124.7 | 115.0 | 106.2 | 98.4 | 89.7 | 80.8 | 78.9 | 80.8 |
| 67.5° | 109.1 | 105.2 | 95.5 | 86.7 | 77.0 | 66.3 | 58.5 | 58.5 | 60.4 |
| 70° | 91.6 | 87.7 | 78.9 | 68.2 | 57.4 | 46.8 | 41.0 | 41.0 | 41.0 |
| 72.5° | 75.0 | 71.2 | 61.4 | 51.6 | 41.0 | 30.2 | 27.2 | 28.3 | 27.2 |
| 75° | 58.5 | 55.5 | 46.8 | 36.1 | 26.3 | 18.5 | 17.6 | 16.6 | 17.6 |
| 77.5° | 43.8 | 41.0 | 33.1 | 23.4 | 14.6 | 10.7 | 9.8 | 9.8 | 9.8 |
| 80° | 30.2 | 27.2 | 21.5 | 13.6 | 7.8 | 4.9 | 4.9 | 4.9 | 4.9 |
| 82.5° | 18.5 | 15.5 | 11.7 | 6.8 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 85° | 8.7 | 6.8 | 4.9 | 1.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 87.5° | 1.9 | 1.9 | 1.0 | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| 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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Scaled Data Report



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

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