

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: P581775

Luminaire Tested: **HCC6W15D010BZ-HM60525927-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581775
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: HCC6W15D010BZ-HM60525927-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

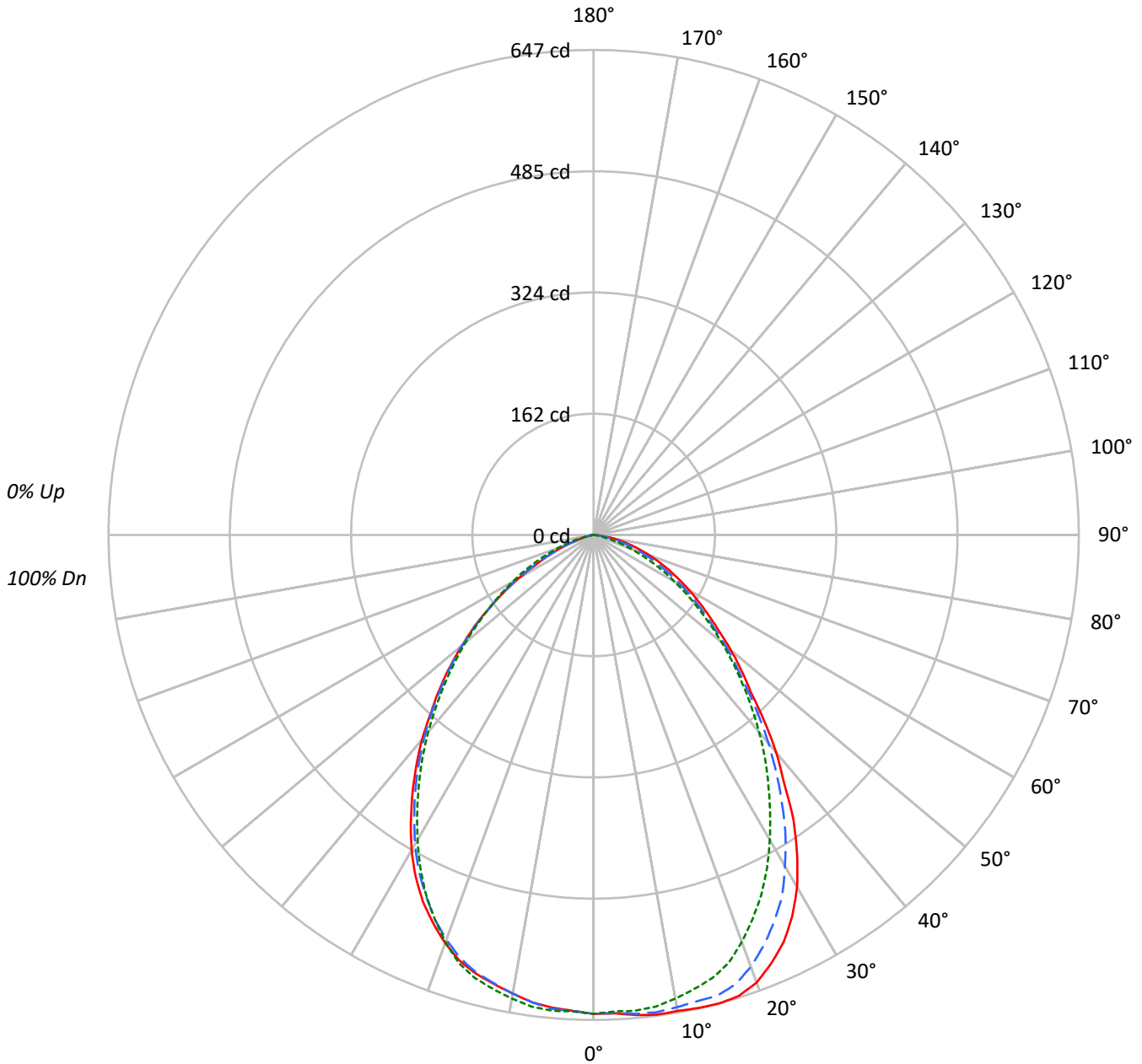
Lumens per Lamp: N/A
Luminaire Lumens: 1251.8 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (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 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 35025 | 35025 | 35025 |
| 5° | 35384 | 35065 | 34834 |
| 10° | 35888 | 34958 | 34585 |
| 15° | 36731 | 34733 | 34404 |
| 20° | 37074 | 33702 | 33801 |
| 25° | 36262 | 32004 | 32615 |
| 30° | 34341 | 29732 | 30745 |
| 35° | 31099 | 27177 | 28188 |
| 40° | 27079 | 24567 | 25462 |
| 45° | 22971 | 21746 | 22529 |
| 50° | 20349 | 18993 | 19496 |
| 55° | 17921 | 16248 | 16162 |
| 60° | 16062 | 13672 | 12576 |
| 65° | 14334 | 10974 | 9015 |
| 70° | 12614 | 7918 | 5642 |
| 75° | 10654 | 4787 | 3198 |
| 80° | 8208 | 2115 | 1326 |
| 85° | 4717 | 503 | 503 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 60.6 | 4.8 |
| 10°-20° | 174.3 | 13.9 |
| 20°-30° | 251.9 | 20.1 |
| 30°-40° | 265.1 | 21.2 |
| 40°-50° | 222.9 | 17.8 |
| 50°-60° | 156.4 | 12.5 |
| 60°-70° | 86.0 | 6.9 |
| 70°-80° | 30.6 | 2.4 |
| 80°-90° | 4.0 | 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° | 486.9 | 38.9 |
| 0°-40° | 751.9 | 60.1 |
| 0°-60° | 1131.2 | 90.4 |
| 0°-90° | 1251.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1251.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 639 | 639 | 639 | 639 | 639 | |
| 5° | 643 | 641 | 637 | 635 | 633 | 61 |
| 15° | 647 | 636 | 612 | 604 | 606 | 183 |
| 25° | 600 | 569 | 529 | 530 | 539 | 274 |
| 35° | 465 | 438 | 406 | 414 | 421 | 288 |
| 45° | 296 | 288 | 280 | 287 | 291 | 233 |
| 55° | 188 | 178 | 170 | 170 | 169 | 169 |
| 65° | 110 | 99 | 85 | 70 | 70 | 110 |
| 75° | 50 | 40 | 23 | 15 | 15 | 54 |
| 85° | 8 | 4 | 1 | 1 | 1 | 10 |
| 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° | 638.9 | 638.9 | 638.9 | 638.9 | 638.9 | 638.9 | 638.9 | 638.9 | 638.9 |
| 2.5° | 638.9 | 638.9 | 638.0 | 638.0 | 636.3 | 636.3 | 635.5 | 635.5 | 635.5 |
| 5° | 643.0 | 643.0 | 641.4 | 638.9 | 637.2 | 634.7 | 634.7 | 633.8 | 633.0 |
| 7.5° | 645.6 | 644.7 | 642.2 | 638.9 | 634.7 | 630.5 | 628.8 | 629.6 | 628.8 |
| 10° | 644.7 | 643.0 | 639.7 | 633.0 | 628.0 | 622.1 | 621.3 | 620.4 | 621.3 |
| 12.5° | 646.4 | 643.9 | 637.2 | 628.8 | 620.4 | 613.7 | 612.9 | 612.9 | 613.7 |
| 15° | 647.2 | 644.7 | 636.3 | 623.8 | 612.0 | 605.3 | 604.5 | 605.3 | 606.2 |
| 17.5° | 644.7 | 641.4 | 628.8 | 612.0 | 598.6 | 591.9 | 591.9 | 593.6 | 595.3 |
| 20° | 635.5 | 630.5 | 612.9 | 592.8 | 577.7 | 572.7 | 574.4 | 577.7 | 579.4 |
| 22.5° | 618.8 | 612.9 | 592.8 | 570.2 | 554.2 | 550.1 | 554.2 | 558.4 | 560.1 |
| 25° | 599.5 | 592.8 | 569.3 | 545.9 | 529.1 | 524.1 | 530.0 | 536.7 | 539.2 |
| 27.5° | 573.5 | 566.0 | 544.2 | 517.4 | 500.6 | 498.2 | 504.8 | 512.5 | 514.0 |
| 30° | 542.5 | 534.1 | 510.0 | 484.8 | 469.7 | 468.9 | 476.4 | 483.1 | 485.7 |
| 32.5° | 504.8 | 497.4 | 476.4 | 451.3 | 437.9 | 437.9 | 445.4 | 451.3 | 453.8 |
| 35° | 464.7 | 456.3 | 437.9 | 417.0 | 406.1 | 406.9 | 414.5 | 418.6 | 421.2 |
| 37.5° | 417.0 | 414.5 | 400.2 | 382.6 | 375.1 | 376.8 | 382.6 | 386.0 | 388.5 |
| 40° | 378.4 | 371.7 | 362.5 | 348.3 | 343.3 | 344.9 | 350.8 | 354.1 | 355.8 |
| 42.5° | 336.6 | 332.4 | 324.8 | 314.8 | 311.4 | 313.9 | 319.0 | 321.5 | 320.6 |
| 45° | 296.3 | 295.6 | 288.1 | 282.2 | 280.5 | 283.9 | 287.2 | 289.7 | 290.6 |
| 47.5° | 267.1 | 263.8 | 257.1 | 252.9 | 251.2 | 254.6 | 257.9 | 259.6 | 259.6 |
| 50° | 238.6 | 235.3 | 228.6 | 224.4 | 222.7 | 226.1 | 228.6 | 230.3 | 228.6 |
| 52.5° | 210.2 | 206.8 | 200.9 | 195.9 | 195.1 | 196.8 | 197.6 | 198.4 | 200.1 |
| 55° | 187.5 | 184.2 | 177.5 | 171.6 | 170.0 | 170.8 | 170.0 | 170.0 | 169.1 |
| 57.5° | 165.8 | 162.4 | 155.7 | 149.0 | 146.5 | 145.7 | 143.1 | 142.3 | 141.5 |
| 60° | 146.5 | 142.3 | 135.6 | 128.1 | 124.7 | 121.4 | 117.2 | 114.7 | 114.7 |
| 62.5° | 128.1 | 123.9 | 116.3 | 109.6 | 104.6 | 98.7 | 92.0 | 88.8 | 88.8 |
| 65° | 110.5 | 107.1 | 98.7 | 91.3 | 84.6 | 77.1 | 69.5 | 67.9 | 69.5 |
| 67.5° | 93.8 | 90.5 | 82.1 | 74.6 | 66.2 | 57.0 | 50.3 | 50.3 | 51.9 |
| 70° | 78.7 | 75.4 | 67.9 | 58.6 | 49.4 | 40.2 | 35.2 | 35.2 | 35.2 |
| 72.5° | 64.5 | 61.2 | 52.8 | 44.4 | 35.2 | 26.0 | 23.5 | 24.3 | 23.5 |
| 75° | 50.3 | 47.7 | 40.2 | 31.0 | 22.6 | 15.9 | 15.1 | 14.2 | 15.1 |
| 77.5° | 37.7 | 35.2 | 28.5 | 20.1 | 12.6 | 9.2 | 8.4 | 8.4 | 8.4 |
| 80° | 26.0 | 23.5 | 18.4 | 11.7 | 6.7 | 4.2 | 4.2 | 4.2 | 4.2 |
| 82.5° | 15.9 | 13.4 | 10.1 | 5.9 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 85° | 7.5 | 5.9 | 4.2 | 1.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 87.5° | 1.7 | 1.7 | 0.8 | 0.8 | 0.0 | 0.8 | 0.8 | 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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