

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: P581747

Luminaire Tested: **HCC6S15D010BZ-HM60525835-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581747
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: HCC6S15D010BZ-HM60525835-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

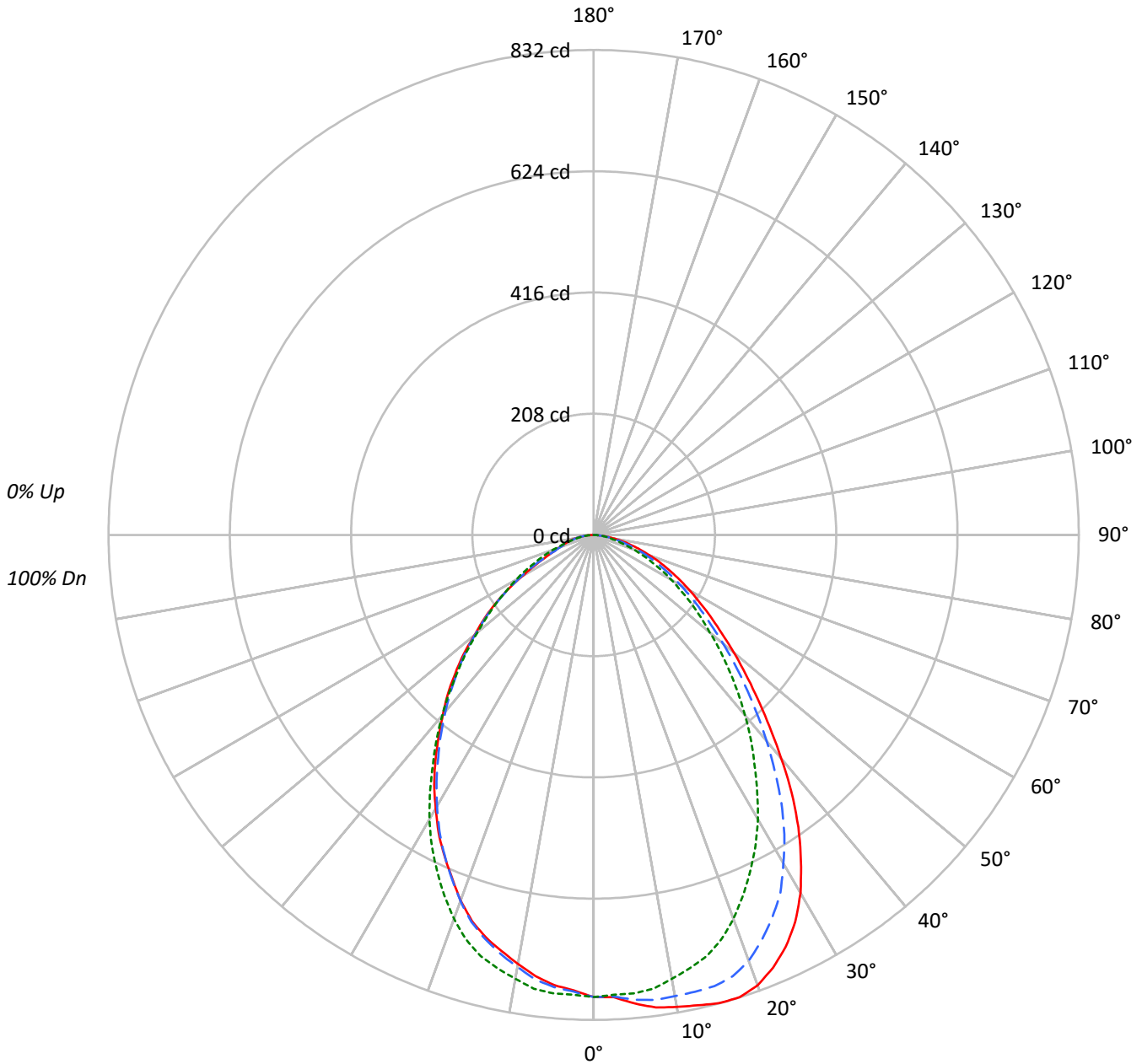
Lumens per Lamp: N/A
Luminaire Lumens: 1552.5 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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° | 43461 | 43461 | 43461 |
| 5° | 44403 | 43446 | 42670 |
| 10° | 45763 | 43046 | 41599 |
| 15° | 47202 | 42475 | 40568 |
| 20° | 47960 | 40878 | 38923 |
| 25° | 47162 | 38452 | 36686 |
| 30° | 44906 | 35651 | 34277 |
| 35° | 40950 | 32183 | 31675 |
| 40° | 35810 | 28904 | 28754 |
| 45° | 30817 | 25437 | 26026 |
| 50° | 26788 | 22166 | 22635 |
| 55° | 23397 | 19459 | 19670 |
| 60° | 20777 | 16863 | 15426 |
| 65° | 18549 | 14191 | 11804 |
| 70° | 16317 | 11621 | 9889 |
| 75° | 14001 | 9193 | 9404 |
| 80° | 11302 | 7861 | 9250 |
| 85° | 7485 | 6793 | 8240 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.1 | 4.8 |
| 10°-20° | 213.7 | 13.8 |
| 20°-30° | 305.0 | 19.6 |
| 30°-40° | 319.5 | 20.6 |
| 40°-50° | 269.0 | 17.3 |
| 50°-60° | 191.5 | 12.3 |
| 60°-70° | 112.1 | 7.2 |
| 70°-80° | 53.0 | 3.4 |
| 80°-90° | 13.6 | 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° | 593.8 | 38.2 |
| 0°-40° | 913.3 | 58.8 |
| 0°-60° | 1373.8 | 88.5 |
| 0°-90° | 1552.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1552.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 793 | 793 | 793 | 793 | 793 | |
| 5° | 807 | 800 | 790 | 779 | 775 | 78 |
| 15° | 832 | 801 | 748 | 718 | 715 | 235 |
| 25° | 780 | 725 | 636 | 605 | 606 | 357 |
| 35° | 612 | 561 | 481 | 465 | 473 | 380 |
| 45° | 398 | 368 | 328 | 329 | 336 | 309 |
| 55° | 245 | 224 | 204 | 204 | 206 | 221 |
| 65° | 143 | 127 | 109 | 92 | 91 | 143 |
| 75° | 66 | 55 | 43 | 42 | 44 | 71 |
| 85° | 12 | 10 | 11 | 13 | 13 | 15 |
| 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° | 792.8 | 792.8 | 792.8 | 792.8 | 792.8 | 792.8 | 792.8 | 792.8 | 792.8 |
| 2.5° | 793.8 | 793.8 | 792.8 | 791.7 | 789.5 | 786.3 | 784.2 | 782.0 | 782.0 |
| 5° | 806.9 | 804.7 | 800.4 | 795.0 | 789.5 | 783.0 | 778.7 | 775.4 | 775.4 |
| 7.5° | 817.7 | 813.3 | 804.7 | 795.0 | 785.2 | 776.6 | 769.0 | 764.6 | 763.5 |
| 10° | 822.1 | 816.6 | 803.6 | 788.5 | 773.3 | 761.4 | 752.7 | 747.3 | 747.3 |
| 12.5° | 826.4 | 819.9 | 802.6 | 780.9 | 761.4 | 745.1 | 736.5 | 732.2 | 731.1 |
| 15° | 831.7 | 823.1 | 801.4 | 774.4 | 748.4 | 730.0 | 718.1 | 714.8 | 714.8 |
| 17.5° | 831.7 | 820.9 | 793.8 | 760.3 | 727.8 | 707.2 | 696.4 | 693.1 | 694.3 |
| 20° | 822.1 | 810.2 | 777.6 | 736.5 | 700.7 | 679.1 | 668.3 | 666.1 | 667.2 |
| 22.5° | 803.6 | 789.5 | 752.7 | 708.4 | 669.3 | 646.6 | 636.8 | 636.8 | 635.7 |
| 25° | 779.7 | 764.6 | 724.6 | 677.9 | 635.7 | 613.0 | 605.4 | 606.5 | 606.5 |
| 27.5° | 748.4 | 733.2 | 693.1 | 643.3 | 601.1 | 578.4 | 572.9 | 575.1 | 576.1 |
| 30° | 709.4 | 693.1 | 650.9 | 602.2 | 563.2 | 540.5 | 537.2 | 540.5 | 541.5 |
| 32.5° | 661.7 | 649.8 | 608.7 | 558.9 | 522.0 | 502.6 | 501.4 | 504.7 | 509.0 |
| 35° | 611.9 | 598.9 | 561.0 | 515.5 | 480.9 | 464.7 | 464.7 | 470.0 | 473.3 |
| 37.5° | 557.7 | 544.8 | 510.1 | 472.2 | 443.0 | 427.8 | 429.9 | 435.4 | 436.5 |
| 40° | 500.4 | 490.7 | 461.4 | 428.9 | 403.9 | 392.0 | 395.3 | 400.8 | 401.8 |
| 42.5° | 446.2 | 437.5 | 413.7 | 384.5 | 366.0 | 357.4 | 361.7 | 368.2 | 370.4 |
| 45° | 397.5 | 387.7 | 368.2 | 343.3 | 328.1 | 323.8 | 329.3 | 333.6 | 335.7 |
| 47.5° | 353.1 | 344.4 | 328.1 | 305.4 | 294.6 | 292.4 | 297.8 | 300.0 | 302.1 |
| 50° | 314.1 | 305.4 | 289.2 | 268.5 | 259.9 | 259.9 | 264.2 | 266.4 | 265.4 |
| 52.5° | 276.1 | 268.5 | 253.4 | 236.1 | 230.7 | 230.7 | 233.9 | 235.1 | 237.2 |
| 55° | 244.8 | 237.2 | 224.2 | 207.9 | 203.6 | 201.5 | 203.6 | 203.6 | 205.8 |
| 57.5° | 215.5 | 209.1 | 197.1 | 181.9 | 176.5 | 174.3 | 173.3 | 172.2 | 174.3 |
| 60° | 189.5 | 184.1 | 171.2 | 158.1 | 153.8 | 148.3 | 144.0 | 139.7 | 140.7 |
| 62.5° | 165.7 | 160.3 | 148.3 | 135.4 | 131.1 | 123.5 | 118.0 | 112.6 | 114.7 |
| 65° | 143.0 | 137.6 | 126.7 | 115.9 | 109.4 | 100.7 | 92.0 | 88.8 | 91.0 |
| 67.5° | 122.4 | 118.0 | 107.3 | 96.4 | 91.0 | 81.3 | 72.5 | 72.5 | 73.7 |
| 70° | 101.8 | 97.5 | 88.8 | 79.1 | 72.5 | 63.9 | 60.6 | 61.7 | 61.7 |
| 72.5° | 83.4 | 80.1 | 71.5 | 62.8 | 56.3 | 50.8 | 50.8 | 52.0 | 53.1 |
| 75° | 66.1 | 63.9 | 55.3 | 47.7 | 43.4 | 40.1 | 42.2 | 43.4 | 44.4 |
| 77.5° | 50.8 | 47.7 | 41.2 | 35.8 | 32.5 | 33.6 | 35.8 | 36.8 | 37.9 |
| 80° | 35.8 | 34.6 | 29.3 | 26.0 | 24.9 | 26.0 | 28.1 | 29.3 | 29.3 |
| 82.5° | 22.7 | 21.7 | 18.4 | 17.4 | 17.4 | 18.4 | 20.5 | 20.5 | 20.5 |
| 85° | 11.9 | 10.8 | 9.8 | 9.8 | 10.8 | 11.9 | 13.1 | 13.1 | 13.1 |
| 87.5° | 4.3 | 3.3 | 4.3 | 4.3 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 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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