

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: P581837

Luminaire Tested: **HCC6W15D010BZ-HM60525940-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581837  
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: HCC6W15D010BZ-HM60525940-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

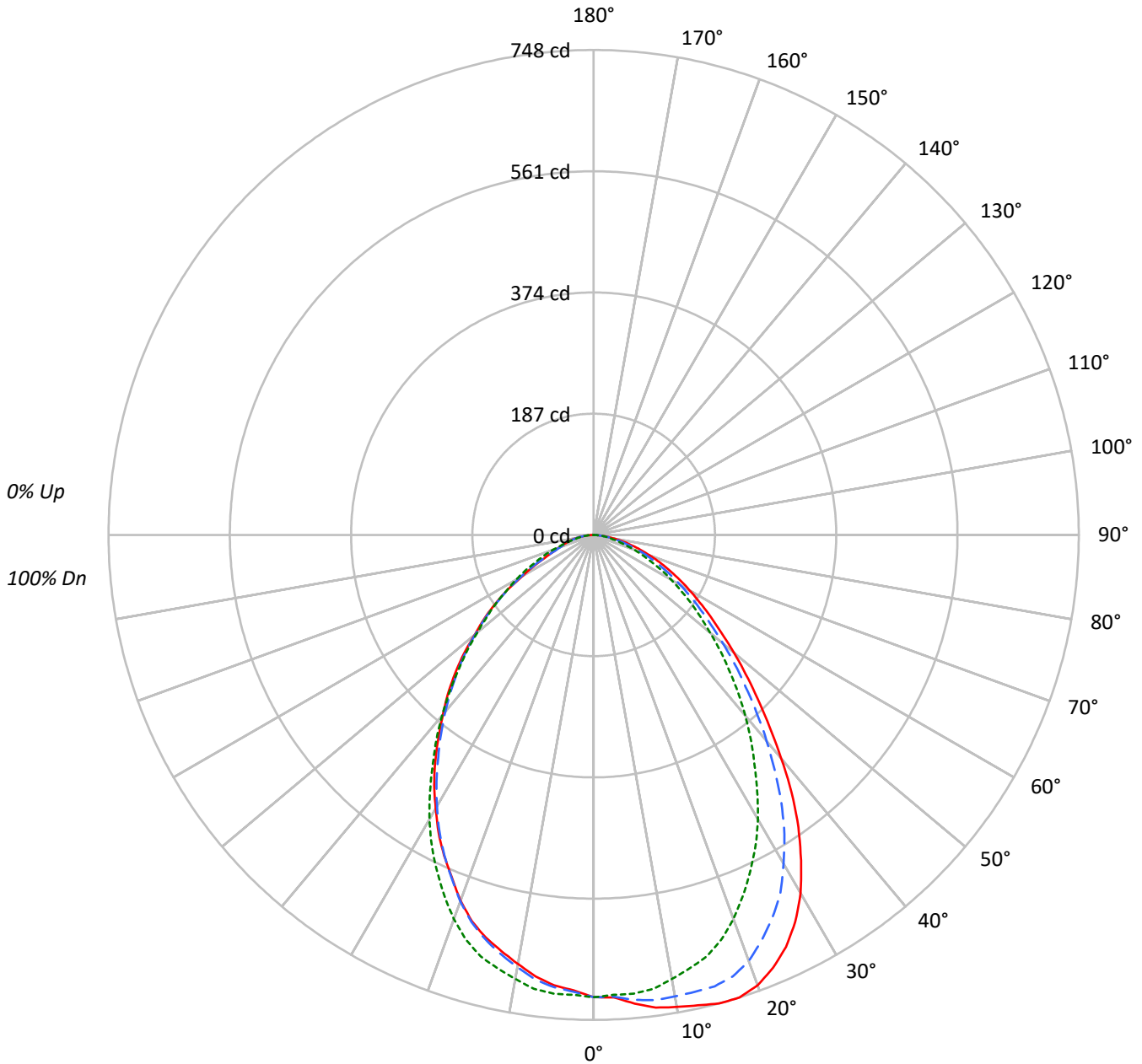
Lumens per Lamp: N/A  
Luminaire Lumens: 1396.2 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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 |    |    |    | 100 |  |  |  |   |
| 1   | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    | 87  |  |  |  |   |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |    |    |    | 76  |  |  |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |    |    |    | 66  |  |  |  |   |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |    | 58  |  |  |  |   |
| 5   | 81  | 70  | 61  | 56  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 52  |    |    |    | 52  |  |  |  |   |
| 6   | 75  | 63  | 55  | 49  | 74  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 52  | 48  | 46  |    |    |    | 46  |  |  |  |   |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 42  |    |    |    | 42  |  |  |  |   |
| 8   | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 39  | 38  |    |    |    | 38  |  |  |  |   |
| 9   | 62  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |    | 34  |  |  |  |   |
| 10  | 58  | 46  | 38  | 34  | 57  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 43  | 37  | 33  | 31  |    |    |    | 31  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 39087 | 39087 | 39087 |
| 5°  | 39929 | 39077 | 38372 |
| 10° | 41148 | 38710 | 37407 |
| 15° | 42452 | 38201 | 36487 |
| 20° | 43124 | 36765 | 35003 |
| 25° | 42420 | 34581 | 32996 |
| 30° | 40386 | 32056 | 30828 |
| 35° | 36821 | 28938 | 28482 |
| 40° | 32203 | 25999 | 25863 |
| 45° | 27708 | 22878 | 23406 |
| 50° | 24093 | 19940 | 20349 |
| 55° | 21036 | 17500 | 17682 |
| 60° | 18694 | 15174 | 13891 |
| 65° | 16681 | 12764 | 10611 |
| 70° | 14682 | 10467 | 8896  |
| 75° | 12581 | 8239  | 8472  |
| 80° | 10134 | 7072  | 8303  |
| 85° | 6730  | 6164  | 7359  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 67.5   | 4.8       |
| 10°-20°   | 192.2  | 13.8      |
| 20°-30°   | 274.3  | 19.6      |
| 30°-40°   | 287.3  | 20.6      |
| 40°-50°   | 241.9  | 17.3      |
| 50°-60°   | 172.2  | 12.3      |
| 60°-70°   | 100.8  | 7.2       |
| 70°-80°   | 47.7   | 3.4       |
| 80°-90°   | 12.3   | 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°    | 534.0  | 38.2      |
| 0°-40°    | 821.3  | 58.8      |
| 0°-60°    | 1235.5 | 88.5      |
| 0°-90°    | 1396.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1396.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 713 | 713 | 713 | 713  | 713  |      |
| 5°  | 726 | 720 | 710 | 700  | 697  | 70   |
| 15° | 748 | 721 | 673 | 646  | 643  | 211  |
| 25° | 701 | 652 | 572 | 544  | 546  | 321  |
| 35° | 550 | 504 | 432 | 418  | 426  | 342  |
| 45° | 357 | 331 | 295 | 296  | 302  | 278  |
| 55° | 220 | 202 | 183 | 183  | 185  | 198  |
| 65° | 129 | 114 | 98  | 83   | 82   | 128  |
| 75° | 59  | 50  | 39  | 38   | 40   | 64   |
| 85° | 11  | 9   | 10  | 12   | 12   | 14   |
| 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°    | 713.0 | 713.0 | 713.0 | 713.0 | 713.0 | 713.0  | 713.0 | 713.0  | 713.0 |
| 2.5°  | 713.9 | 713.9 | 713.0 | 712.0 | 710.1 | 707.1  | 705.2 | 703.2  | 703.2 |
| 5°    | 725.6 | 723.7 | 719.8 | 714.9 | 710.1 | 704.2  | 700.3 | 697.3  | 697.3 |
| 7.5°  | 735.4 | 731.5 | 723.7 | 714.9 | 706.1 | 698.4  | 691.6 | 687.6  | 686.7 |
| 10°   | 739.2 | 734.3 | 722.7 | 709.0 | 695.4 | 684.7  | 676.9 | 672.0  | 672.0 |
| 12.5° | 743.2 | 737.3 | 721.7 | 702.2 | 684.7 | 670.1  | 662.3 | 658.4  | 657.4 |
| 15°   | 748.0 | 740.2 | 720.7 | 696.4 | 673.1 | 656.5  | 645.7 | 642.9  | 642.9 |
| 17.5° | 748.0 | 738.3 | 713.9 | 683.7 | 654.6 | 636.1  | 626.3 | 623.3  | 624.4 |
| 20°   | 739.2 | 728.6 | 699.3 | 662.3 | 630.2 | 610.7  | 601.0 | 599.1  | 600.0 |
| 22.5° | 722.7 | 710.1 | 676.9 | 637.0 | 601.9 | 581.5  | 572.7 | 572.7  | 571.7 |
| 25°   | 701.3 | 687.6 | 651.6 | 609.7 | 571.7 | 551.3  | 544.5 | 545.5  | 545.5 |
| 27.5° | 673.1 | 659.4 | 623.3 | 578.5 | 540.6 | 520.1  | 515.3 | 517.2  | 518.1 |
| 30°   | 638.0 | 623.3 | 585.3 | 541.5 | 506.4 | 486.0  | 483.1 | 486.0  | 487.0 |
| 32.5° | 595.1 | 584.4 | 547.4 | 502.6 | 469.4 | 452.0  | 450.9 | 453.9  | 457.7 |
| 35°   | 550.2 | 538.6 | 504.5 | 463.6 | 432.4 | 417.8  | 417.8 | 422.7  | 425.6 |
| 37.5° | 501.6 | 489.9 | 458.8 | 424.6 | 398.4 | 384.8  | 386.7 | 391.6  | 392.5 |
| 40°   | 450.0 | 441.2 | 415.0 | 385.7 | 363.3 | 352.5  | 355.5 | 360.4  | 361.4 |
| 42.5° | 401.3 | 393.5 | 372.1 | 345.7 | 329.2 | 321.4  | 325.3 | 331.2  | 333.1 |
| 45°   | 357.4 | 348.7 | 331.2 | 308.7 | 295.1 | 291.2  | 296.1 | 300.0  | 301.9 |
| 47.5° | 317.6 | 309.7 | 295.1 | 274.7 | 264.9 | 263.0  | 267.9 | 269.8  | 271.7 |
| 50°   | 282.5 | 274.7 | 260.0 | 241.5 | 233.8 | 233.8  | 237.7 | 239.6  | 238.6 |
| 52.5° | 248.3 | 241.5 | 227.9 | 212.4 | 207.5 | 207.5  | 210.4 | 211.3  | 213.3 |
| 55°   | 220.1 | 213.3 | 201.6 | 187.0 | 183.1 | 181.1  | 183.1 | 183.1  | 185.0 |
| 57.5° | 193.9 | 188.0 | 177.3 | 163.7 | 158.8 | 156.9  | 155.8 | 154.8  | 156.9 |
| 60°   | 170.5 | 165.6 | 153.9 | 142.2 | 138.4 | 133.5  | 129.5 | 125.6  | 126.7 |
| 62.5° | 149.0 | 144.1 | 133.5 | 121.8 | 117.8 | 111.0  | 106.1 | 101.2  | 103.3 |
| 65°   | 128.6 | 123.7 | 114.0 | 104.2 | 98.4  | 90.6   | 82.7  | 79.9   | 81.8  |
| 67.5° | 110.1 | 106.1 | 96.5  | 86.7  | 81.8  | 73.1   | 65.3  | 65.3   | 66.3  |
| 70°   | 91.6  | 87.6  | 79.9  | 71.1  | 65.3  | 57.4   | 54.6  | 55.5   | 55.5  |
| 72.5° | 75.0  | 72.1  | 64.2  | 56.5  | 50.6  | 45.7   | 45.7  | 46.8   | 47.7  |
| 75°   | 59.4  | 57.4  | 49.7  | 42.9  | 38.9  | 36.1   | 38.0  | 38.9   | 40.0  |
| 77.5° | 45.7  | 42.9  | 37.0  | 32.1  | 29.2  | 30.2   | 32.1  | 33.1   | 34.0  |
| 80°   | 32.1  | 31.2  | 26.3  | 23.4  | 22.4  | 23.4   | 25.3  | 26.3   | 26.3  |
| 82.5° | 20.4  | 19.5  | 16.6  | 15.5  | 15.5  | 16.6   | 18.5  | 18.5   | 18.5  |
| 85°   | 10.7  | 9.8   | 8.7   | 8.7   | 9.8   | 10.7   | 11.7  | 11.7   | 11.7  |
| 87.5° | 3.9   | 3.0   | 3.9   | 3.9   | 4.9   | 4.9    | 4.9   | 4.9    | 4.9   |
| 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



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

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