

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: P581455

Luminaire Tested: **HCC4W07D010MB-HM40525835-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581455  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W07D010MB-HM40525835-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

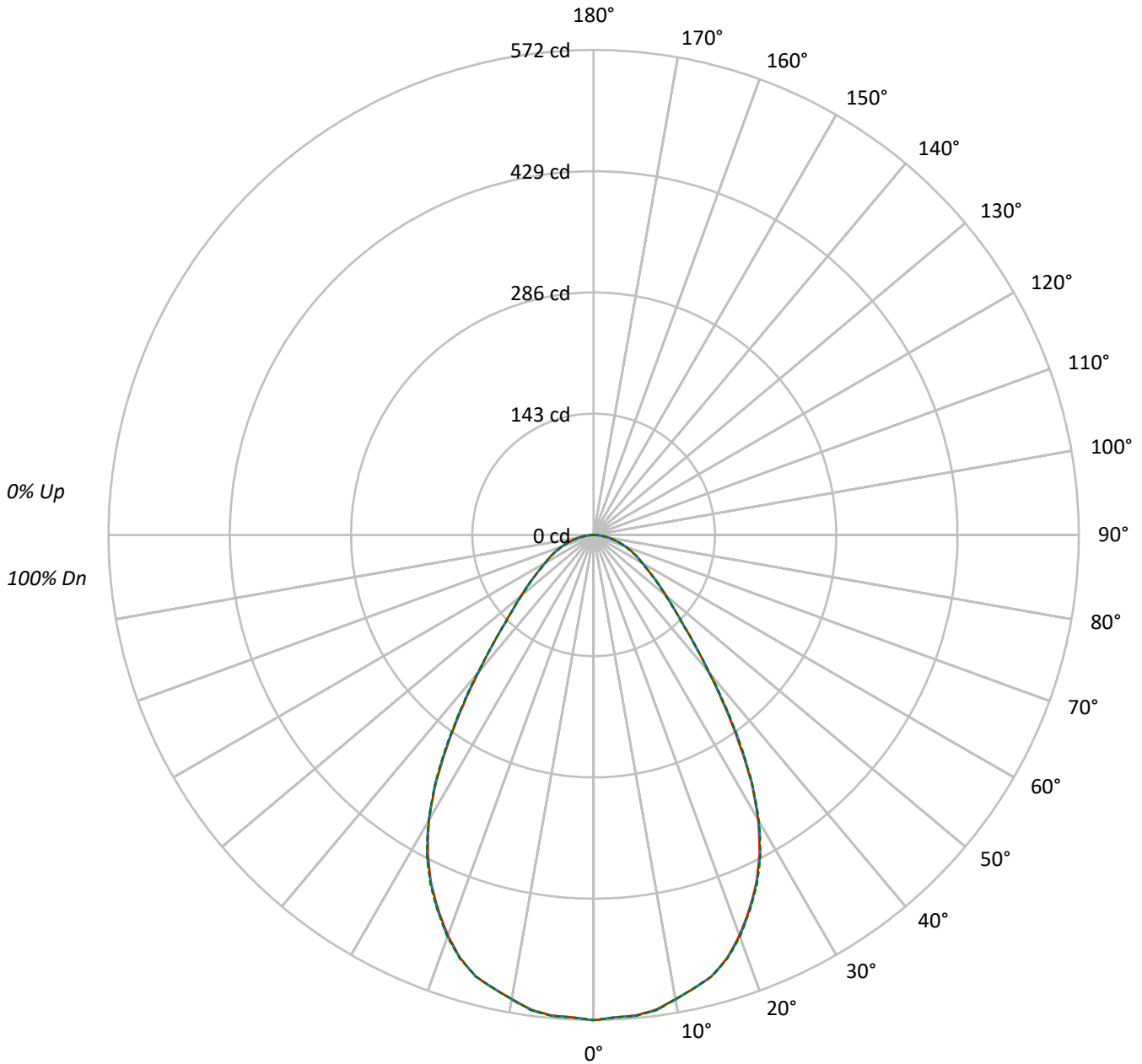
Lumens per Lamp: N/A  
Luminaire Lumens: 883.3 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
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 | 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  | 94  | 92  | 90  | 89  |    |    |    |    | 89  |   |  |   |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 91  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 78  |    |    |    |    | 78  |   |  |   |
| 3   | 96  | 87  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |    |    | 69  |   |  |   |
| 4   | 90  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 67  | 64  | 62  |    |    |    |    | 62  |   |  |   |
| 5   | 84  | 73  | 65  | 60  | 82  | 72  | 65  | 59  | 70  | 64  | 59  | 68  | 63  | 58  | 66  | 62  | 58  | 56  |    |    |    |    | 56  |   |  |   |
| 6   | 78  | 67  | 59  | 54  | 77  | 66  | 59  | 54  | 64  | 58  | 53  | 63  | 57  | 53  | 61  | 56  | 53  | 51  |    |    |    |    | 51  |   |  |   |
| 7   | 73  | 62  | 54  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 49  | 58  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |    |    | 46  |   |  |   |
| 8   | 69  | 57  | 50  | 45  | 68  | 57  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 44  | 53  | 48  | 44  | 42  |    |    |    |    | 42  |   |  |   |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |    |    | 39  |   |  |   |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 48  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |    |    | 36  |   |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 70603 | 70603 | 70603 |
| 5°  | 70439 | 70514 | 70514 |
| 10° | 69613 | 69688 | 69613 |
| 15° | 68777 | 68777 | 68777 |
| 20° | 65959 | 66117 | 66182 |
| 25° | 61693 | 61774 | 61938 |
| 30° | 55290 | 55447 | 55447 |
| 35° | 44872 | 45233 | 45324 |
| 40° | 33878 | 34071 | 34152 |
| 45° | 25939 | 25852 | 25852 |
| 50° | 21377 | 21262 | 21262 |
| 55° | 18365 | 18236 | 18236 |
| 60° | 16356 | 16232 | 16232 |
| 65° | 15381 | 15381 | 15381 |
| 70° | 14317 | 14317 | 14317 |
| 75° | 13010 | 13296 | 13010 |
| 80° | 12217 | 11791 | 12217 |
| 85° | 10048 | 10048 | 10048 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.9   | 6.1       |
| 10°-20°   | 150.9  | 17.1      |
| 20°-30°   | 207.4  | 23.5      |
| 30°-40°   | 186.5  | 21.1      |
| 40°-50°   | 117.9  | 13.3      |
| 50°-60°   | 77.0   | 8.7       |
| 60°-70°   | 52.1   | 5.9       |
| 70°-80°   | 29.4   | 3.3       |
| 80°-90°   | 8.2    | 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°    | 412.3  | 46.7      |
| 0°-40°    | 598.7  | 67.8      |
| 0°-60°    | 793.5  | 89.8      |
| 0°-90°    | 883.3  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 883.3  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 572 | 572   | 572 | 572   | 572 |      |
| 5°  | 569 | 569   | 570 | 570   | 570 | 54   |
| 15° | 539 | 539   | 539 | 539   | 539 | 151  |
| 25° | 453 | 454   | 454 | 455   | 455 | 207  |
| 35° | 298 | 299   | 300 | 302   | 301 | 186  |
| 45° | 149 | 148   | 148 | 148   | 148 | 118  |
| 55° | 85  | 85    | 85  | 85    | 85  | 77   |
| 65° | 53  | 53    | 53  | 53    | 53  | 52   |
| 75° | 27  | 28    | 28  | 28    | 27  | 29   |
| 85° | 7   | 7     | 7   | 7     | 7   | 8    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 572.4 | 572.4 | 572.4 | 572.4 | 572.4 |
| 2.5°  | 569.5 | 569.5 | 569.5 | 569.5 | 569.5 |
| 5°    | 568.9 | 568.9 | 569.5 | 569.5 | 569.5 |
| 7.5°  | 564.7 | 565.4 | 565.4 | 565.4 | 565.4 |
| 10°   | 555.8 | 555.8 | 556.4 | 556.4 | 555.8 |
| 12.5° | 547.5 | 547.5 | 547.5 | 548.2 | 547.5 |
| 15°   | 538.6 | 538.6 | 538.6 | 538.6 | 538.6 |
| 17.5° | 523.3 | 523.8 | 523.8 | 523.8 | 523.8 |
| 20°   | 502.5 | 503.7 | 503.7 | 504.2 | 504.2 |
| 22.5° | 478.8 | 479.4 | 480.0 | 480.6 | 480.0 |
| 25°   | 453.3 | 453.9 | 453.9 | 455.1 | 455.1 |
| 27.5° | 423.7 | 424.2 | 425.5 | 425.5 | 425.5 |
| 30°   | 388.2 | 388.7 | 389.3 | 389.3 | 389.3 |
| 32.5° | 346.1 | 346.1 | 347.2 | 347.9 | 347.2 |
| 35°   | 298.0 | 299.3 | 300.4 | 301.6 | 301.0 |
| 37.5° | 252.4 | 253.7 | 254.2 | 254.2 | 254.8 |
| 40°   | 210.4 | 211.6 | 211.6 | 212.7 | 212.1 |
| 42.5° | 177.2 | 176.6 | 176.6 | 177.8 | 177.2 |
| 45°   | 148.7 | 148.2 | 148.2 | 148.2 | 148.2 |
| 47.5° | 128.0 | 127.5 | 127.5 | 127.5 | 127.5 |
| 50°   | 111.4 | 110.8 | 110.8 | 110.8 | 110.8 |
| 52.5° | 97.8  | 97.2  | 97.2  | 97.2  | 96.6  |
| 55°   | 85.4  | 85.4  | 84.8  | 85.4  | 84.8  |
| 57.5° | 74.1  | 74.1  | 74.1  | 74.1  | 74.1  |
| 60°   | 66.3  | 65.8  | 65.8  | 65.8  | 65.8  |
| 62.5° | 59.3  | 59.3  | 59.3  | 59.3  | 59.3  |
| 65°   | 52.7  | 52.7  | 52.7  | 52.7  | 52.7  |
| 67.5° | 46.2  | 45.6  | 46.2  | 46.2  | 45.6  |
| 70°   | 39.7  | 39.1  | 39.7  | 39.7  | 39.7  |
| 72.5° | 33.2  | 33.2  | 33.2  | 33.8  | 33.2  |
| 75°   | 27.3  | 27.9  | 27.9  | 27.9  | 27.3  |
| 77.5° | 22.0  | 22.5  | 22.0  | 22.0  | 22.0  |
| 80°   | 17.2  | 16.6  | 16.6  | 16.6  | 17.2  |
| 82.5° | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  |
| 85°   | 7.1   | 7.1   | 7.1   | 7.1   | 7.1   |
| 87.5° | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |
| 90°   | 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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