

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: P583382

Luminaire Tested: **HCC6W07D010MW-HM60525930-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583382  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W07D010MW-HM60525930-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

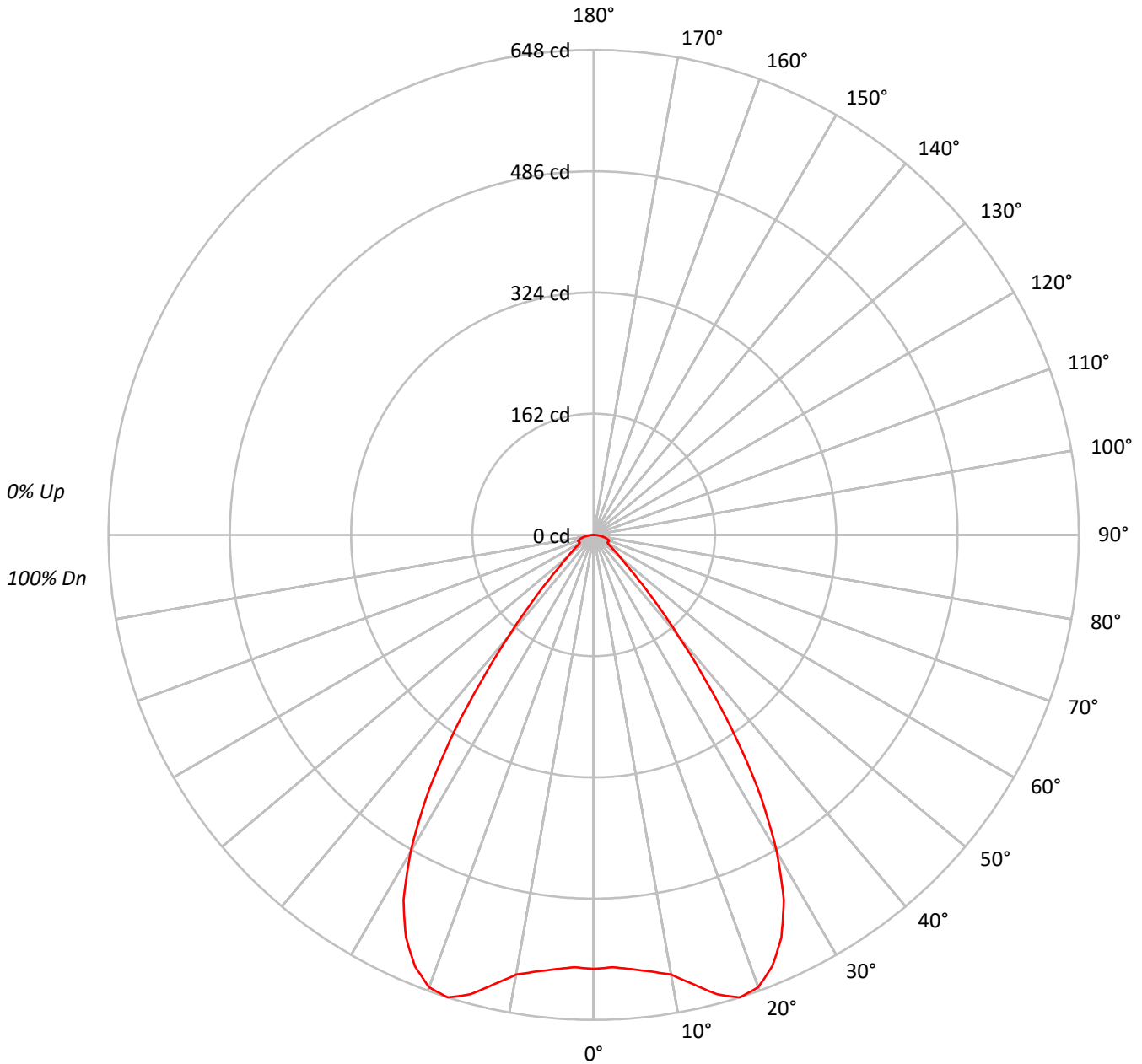
Lumens per Lamp: N/A  
Luminaire Lumens: 852.0 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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 | 0   |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    | 100 |   |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  | 91  |    |    | 91  |   |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    | 82  |   |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |    | 75  |   |
| 4   | 93  | 85  | 78  | 73  | 91  | 83  | 78  | 73  | 81  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 70  | 69  |    |    | 69  |   |
| 5   | 88  | 78  | 72  | 67  | 86  | 77  | 71  | 66  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 68  | 65  | 63  |    |    | 63  |   |
| 6   | 83  | 73  | 66  | 61  | 81  | 72  | 66  | 61  | 70  | 65  | 60  | 69  | 64  | 60  | 67  | 63  | 60  | 58  |    |    | 58  |   |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 63  | 59  | 55  | 54  |    |    | 54  |   |
| 8   | 74  | 63  | 57  | 52  | 73  | 63  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 51  | 59  | 55  | 51  | 50  |    |    | 50  |   |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 52  | 48  | 58  | 52  | 48  | 57  | 51  | 48  | 56  | 51  | 48  | 46  |    |    | 46  |   |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 48  | 45  | 53  | 48  | 44  | 53  | 48  | 44  | 43  |    |    | 43  |   |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 31785 |
| 5°  | 32049 |
| 10° | 33205 |
| 15° | 36067 |
| 20° | 37517 |
| 25° | 35881 |
| 30° | 30967 |
| 35° | 22299 |
| 40° | 12559 |
| 45° | 6512  |
| 50° | 3880  |
| 55° | 2791  |
| 60° | 2368  |
| 65° | 2737  |
| 70° | 3462  |
| 75° | 3664  |
| 80° | 3567  |
| 85° | 3397  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.0   | 6.6       |
| 10°-20°   | 179.2  | 21.0      |
| 20°-30°   | 267.9  | 31.4      |
| 30°-40°   | 204.8  | 24.0      |
| 40°-50°   | 71.5   | 8.4       |
| 50°-60°   | 27.2   | 3.2       |
| 60°-70°   | 21.3   | 2.5       |
| 70°-80°   | 18.1   | 2.1       |
| 80°-90°   | 5.8    | 0.7       |
| 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°    | 503.2  | 59.1      |
| 0°-40°    | 708.0  | 83.1      |
| 0°-60°    | 806.7  | 94.7      |
| 0°-90°    | 852.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 852.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 580 |      |
| 5°  | 582 | 56   |
| 15° | 636 | 179  |
| 25° | 593 | 268  |
| 35° | 333 | 205  |
| 45° | 84  | 72   |
| 55° | 29  | 27   |
| 65° | 21  | 21   |
| 75° | 17  | 18   |
| 85° | 5   | 6    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 579.8 |
| 2.5°  | 578.1 |
| 5°    | 582.4 |
| 7.5°  | 588.4 |
| 10°   | 596.5 |
| 12.5° | 614.9 |
| 15°   | 635.5 |
| 17.5° | 648.0 |
| 20°   | 643.1 |
| 22.5° | 623.6 |
| 25°   | 593.2 |
| 27.5° | 550.0 |
| 30°   | 489.2 |
| 32.5° | 416.6 |
| 35°   | 333.2 |
| 37.5° | 247.1 |
| 40°   | 175.5 |
| 42.5° | 122.9 |
| 45°   | 84.0  |
| 47.5° | 59.0  |
| 50°   | 45.5  |
| 52.5° | 35.8  |
| 55°   | 29.2  |
| 57.5° | 23.8  |
| 60°   | 21.6  |
| 62.5° | 21.1  |
| 65°   | 21.1  |
| 67.5° | 22.2  |
| 70°   | 21.6  |
| 72.5° | 20.1  |
| 75°   | 17.3  |
| 77.5° | 14.6  |
| 80°   | 11.3  |
| 82.5° | 8.2   |
| 85°   | 5.4   |
| 87.5° | 2.2   |
| 90°   | 0.0   |

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Scaled Data Report



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— 0°-180°

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