

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: P593144

Luminaire Tested: **HCC6W20D010MB-HM60525950-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W20D010MB-HM60525950-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

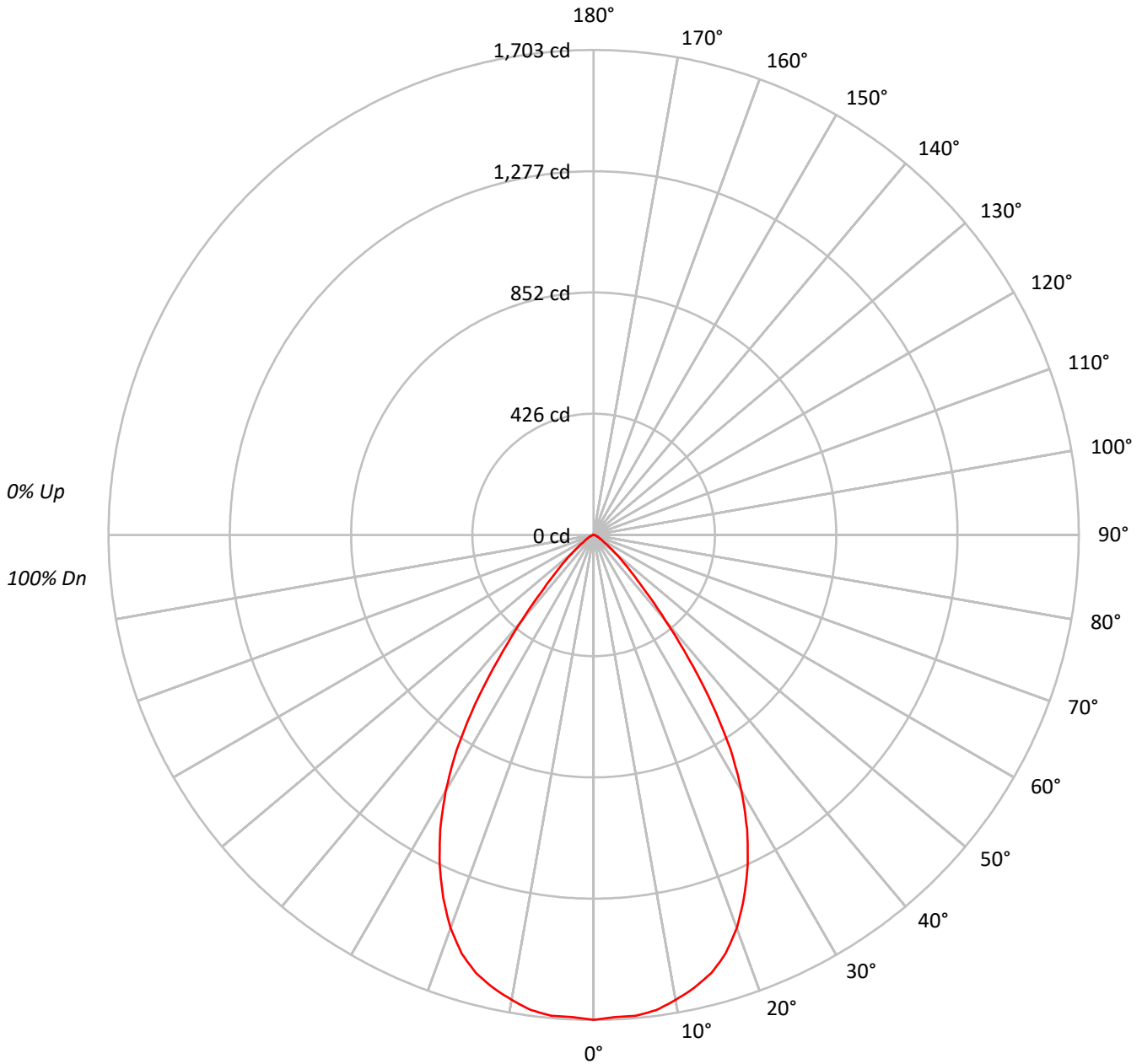
Lumens per Lamp: N/A  
Luminaire Lumens: 1864.0 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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 | 100 | 100 | 100 |
| 1   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 96  | 94  | 93  | 93  | 93  | 93  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  | 94  | 91  | 89  | 91  | 89  | 87  | 85  | 85  | 85  | 85  |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  | 88  | 84  | 81  | 86  | 83  | 80  | 79  | 79  | 79  | 79  |
| 4   | 96  | 88  | 82  | 77  | 94  | 86  | 81  | 77  | 84  | 79  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 72  | 72  | 72  | 72  |
| 5   | 90  | 81  | 75  | 71  | 89  | 80  | 75  | 70  | 79  | 74  | 70  | 77  | 73  | 69  | 75  | 72  | 68  | 67  | 67  | 67  | 67  |
| 6   | 85  | 76  | 70  | 65  | 84  | 75  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 64  | 71  | 67  | 63  | 62  | 62  | 62  | 62  |
| 7   | 81  | 71  | 65  | 60  | 79  | 70  | 64  | 60  | 69  | 64  | 60  | 68  | 63  | 59  | 67  | 62  | 59  | 57  | 57  | 57  | 57  |
| 8   | 77  | 67  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 59  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 53  | 53  | 53  | 53  |
| 9   | 73  | 62  | 56  | 52  | 72  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 59  | 55  | 51  | 50  | 50  | 50  | 50  |
| 10  | 69  | 59  | 53  | 49  | 68  | 58  | 52  | 48  | 57  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 47  | 47  | 47  | 47  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 93353 |
| 5°  | 93275 |
| 10° | 92300 |
| 15° | 90449 |
| 20° | 85676 |
| 25° | 77375 |
| 30° | 65725 |
| 35° | 48526 |
| 40° | 28060 |
| 45° | 14901 |
| 50° | 8418  |
| 55° | 4406  |
| 60° | 2884  |
| 65° | 2037  |
| 70° | 1475  |
| 75° | 1101  |
| 80° | 821   |
| 85° | 881   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.6  | 8.6       |
| 10°-20°   | 445.7  | 23.9      |
| 20°-30°   | 581.8  | 31.2      |
| 30°-40°   | 444.6  | 23.9      |
| 40°-50°   | 161.0  | 8.6       |
| 50°-60°   | 46.8   | 2.5       |
| 60°-70°   | 16.7   | 0.9       |
| 70°-80°   | 5.7    | 0.3       |
| 80°-90°   | 1.1    | 0.1       |
| 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°    | 1188.1 | 63.7      |
| 0°-40°    | 1632.7 | 87.6      |
| 0°-60°    | 1840.5 | 98.7      |
| 0°-90°    | 1864.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1864.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1703 |      |
| 5°  | 1695 | 161  |
| 15° | 1594 | 446  |
| 25° | 1279 | 582  |
| 35° | 725  | 445  |
| 45° | 192  | 161  |
| 55° | 46   | 47   |
| 65° | 16   | 17   |
| 75° | 5    | 6    |
| 85° | 1    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1702.9 |
| 2.5°  | 1695.0 |
| 5°    | 1695.0 |
| 7.5°  | 1683.2 |
| 10°   | 1658.1 |
| 12.5° | 1629.1 |
| 15°   | 1593.7 |
| 17.5° | 1541.0 |
| 20°   | 1468.6 |
| 22.5° | 1379.2 |
| 25°   | 1279.2 |
| 27.5° | 1166.0 |
| 30°   | 1038.3 |
| 32.5° | 894.8  |
| 35°   | 725.1  |
| 37.5° | 547.5  |
| 40°   | 392.1  |
| 42.5° | 271.1  |
| 45°   | 192.2  |
| 47.5° | 138.2  |
| 50°   | 98.7   |
| 52.5° | 69.8   |
| 55°   | 46.1   |
| 57.5° | 32.9   |
| 60°   | 26.3   |
| 62.5° | 21.1   |
| 65°   | 15.7   |
| 67.5° | 13.1   |
| 70°   | 9.2    |
| 72.5° | 6.6    |
| 75°   | 5.2    |
| 77.5° | 4.0    |
| 80°   | 2.6    |
| 82.5° | 1.4    |
| 85°   | 1.4    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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