

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: P583995

Luminaire Tested: **HCC8W20D010MB-HM80520830-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583995  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W20D010MB-HM80520830-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

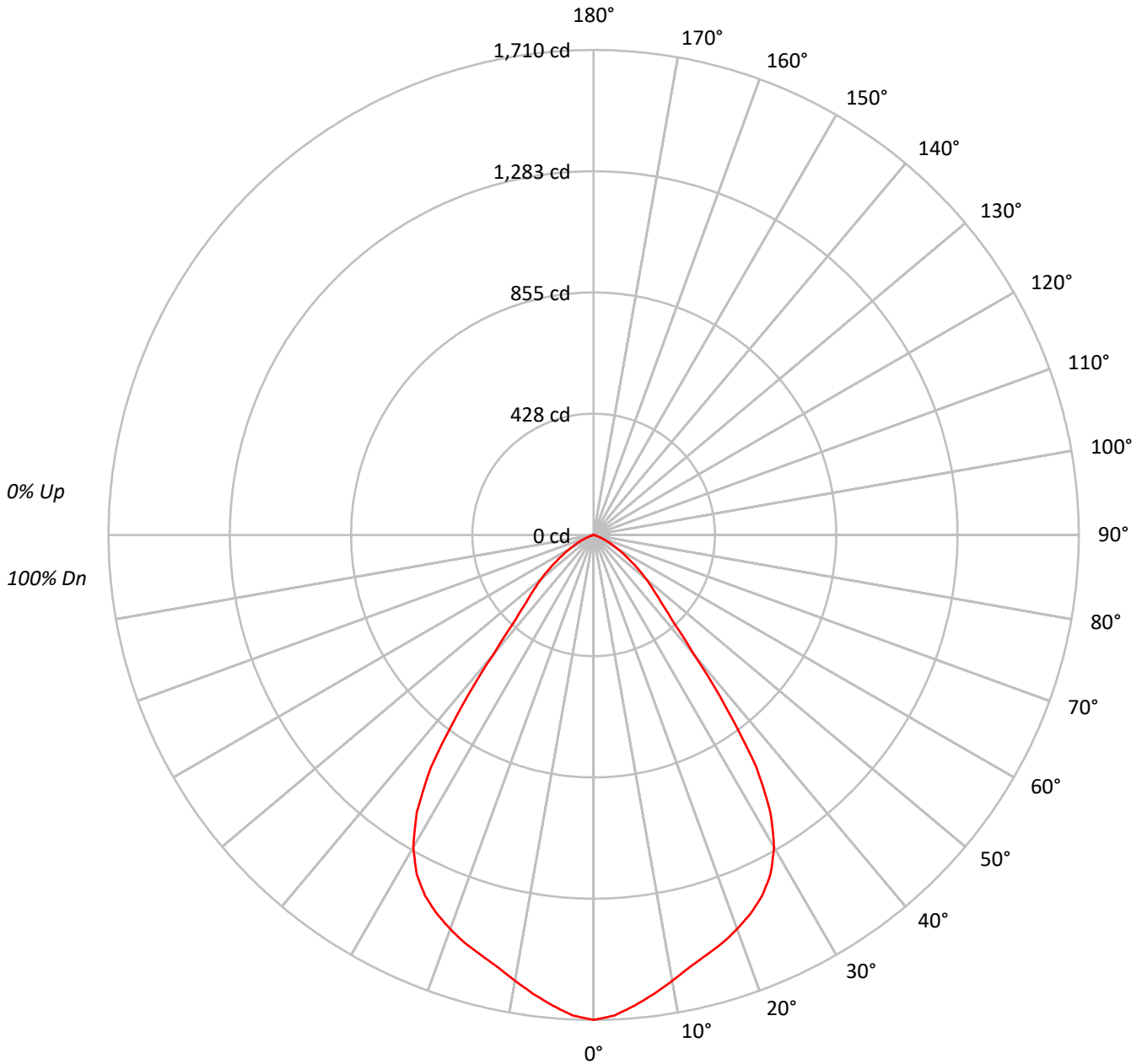
Lumens per Lamp: N/A  
Luminaire Lumens: 2303.7 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 76  | 72  | 79  | 74  | 71  | 77  | 73  | 70  | 68  |
| 5   | 87  | 78  | 71  | 66  | 86  | 77  | 70  | 66  | 75  | 69  | 65  | 73  | 68  | 64  | 71  | 67  | 64  | 62  |
| 6   | 82  | 72  | 65  | 60  | 80  | 71  | 64  | 60  | 69  | 64  | 59  | 68  | 63  | 59  | 66  | 62  | 58  | 57  |
| 7   | 77  | 67  | 60  | 55  | 76  | 66  | 59  | 55  | 64  | 59  | 54  | 63  | 58  | 54  | 62  | 57  | 54  | 52  |
| 8   | 73  | 62  | 55  | 50  | 71  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |
| 9   | 69  | 58  | 51  | 46  | 67  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 46  | 44  |
| 10  | 65  | 54  | 47  | 43  | 64  | 53  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 43  | 51  | 46  | 42  | 41  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 52736 |
| 5°  | 51551 |
| 10° | 49971 |
| 15° | 48959 |
| 20° | 48521 |
| 25° | 47794 |
| 30° | 45274 |
| 35° | 37618 |
| 40° | 22152 |
| 45° | 14648 |
| 50° | 11533 |
| 55° | 8484  |
| 60° | 5896  |
| 65° | 3597  |
| 70° | 1569  |
| 75° | 691   |
| 80° | 533   |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 156.8  | 6.8       |
| 10°-20°   | 433.6  | 18.8      |
| 20°-30°   | 642.4  | 27.9      |
| 30°-40°   | 593.6  | 25.8      |
| 40°-50°   | 273.7  | 11.9      |
| 50°-60°   | 143.9  | 6.2       |
| 60°-70°   | 50.9   | 2.2       |
| 70°-80°   | 8.0    | 0.3       |
| 80°-90°   | 0.8    | 0.0       |
| 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°    | 1232.8 | 53.5      |
| 0°-40°    | 1826.3 | 79.3      |
| 0°-60°    | 2244.0 | 97.4      |
| 0°-90°    | 2303.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2303.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1710 |      |
| 5°  | 1665 | 157  |
| 15° | 1534 | 434  |
| 25° | 1405 | 642  |
| 35° | 999  | 594  |
| 45° | 336  | 274  |
| 55° | 158  | 144  |
| 65° | 49   | 51   |
| 75° | 6    | 8    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1710.2 |
| 2.5°  | 1695.8 |
| 5°    | 1665.4 |
| 7.5°  | 1632.1 |
| 10°   | 1595.9 |
| 12.5° | 1561.1 |
| 15°   | 1533.6 |
| 17.5° | 1508.9 |
| 20°   | 1478.6 |
| 22.5° | 1445.2 |
| 25°   | 1404.7 |
| 27.5° | 1349.7 |
| 30°   | 1271.5 |
| 32.5° | 1160.0 |
| 35°   | 999.3  |
| 37.5° | 767.5  |
| 40°   | 550.3  |
| 42.5° | 412.8  |
| 45°   | 335.9  |
| 47.5° | 285.3  |
| 50°   | 240.4  |
| 52.5° | 196.9  |
| 55°   | 157.8  |
| 57.5° | 124.6  |
| 60°   | 95.6   |
| 62.5° | 72.5   |
| 65°   | 49.3   |
| 67.5° | 29.0   |
| 70°   | 17.4   |
| 72.5° | 10.2   |
| 75°   | 5.8    |
| 77.5° | 4.4    |
| 80°   | 3.0    |
| 82.5° | 1.4    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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