

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: P584095

Luminaire Tested: **HCC8W20D010MW-HM80520940-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584095  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W20D010MW-HM80520940-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

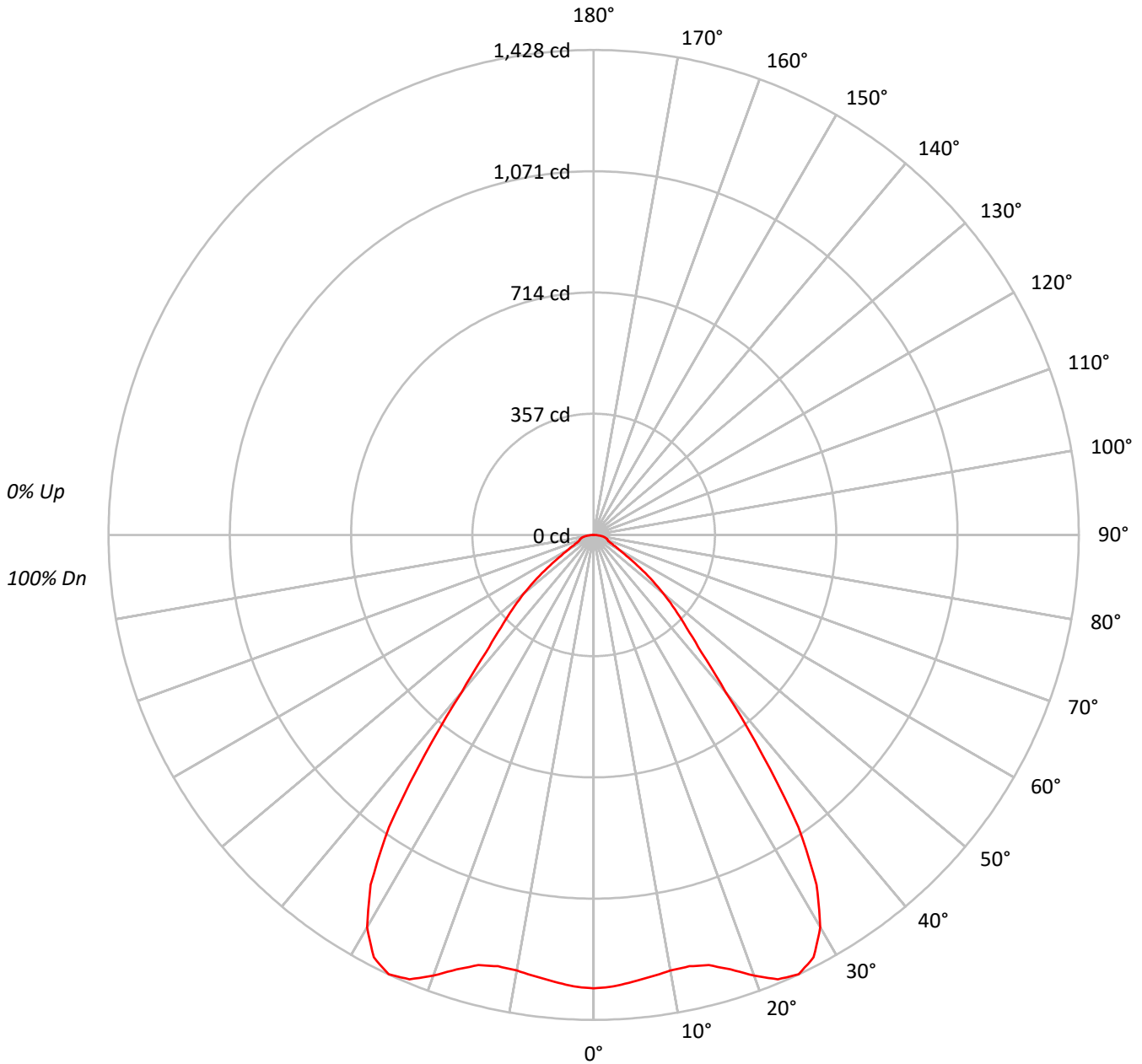
Lumens per Lamp: N/A  
Luminaire Lumens: 2344.4 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 112 | 108 | 105 | 103 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 97  | 95  | 95  | 93  | 92  | 90  |
| 2   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 88  | 93  | 90  | 86  | 90  | 87  | 84  | 88  | 85  | 83  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 77  | 74  | 73  |
| 4   | 92  | 82  | 75  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |
| 6   | 80  | 69  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 55  | 51  | 49  |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 58  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 45  |
| 9   | 67  | 55  | 48  | 43  | 65  | 55  | 48  | 43  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  |
| 10  | 63  | 51  | 45  | 40  | 62  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 48  | 43  | 40  | 38  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 41173 |
| 5°  | 40890 |
| 10° | 40781 |
| 15° | 41856 |
| 20° | 45311 |
| 25° | 48576 |
| 30° | 47492 |
| 35° | 39549 |
| 40° | 24293 |
| 45° | 16824 |
| 50° | 12838 |
| 55° | 8419  |
| 60° | 5273  |
| 65° | 3947  |
| 70° | 3976  |
| 75° | 4575  |
| 80° | 5061  |
| 85° | 4529  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.5  | 5.4       |
| 10°-20°   | 376.4  | 16.1      |
| 20°-30°   | 647.9  | 27.6      |
| 30°-40°   | 627.7  | 26.8      |
| 40°-50°   | 309.2  | 13.2      |
| 50°-60°   | 145.9  | 6.2       |
| 60°-70°   | 57.5   | 2.5       |
| 70°-80°   | 39.7   | 1.7       |
| 80°-90°   | 14.7   | 0.6       |
| 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°    | 1149.8 | 49.0      |
| 0°-40°    | 1777.5 | 75.8      |
| 0°-60°    | 2232.5 | 95.2      |
| 0°-90°    | 2344.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2344.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1335 |      |
| 5°  | 1321 | 126  |
| 15° | 1311 | 376  |
| 25° | 1428 | 648  |
| 35° | 1051 | 628  |
| 45° | 386  | 309  |
| 55° | 157  | 146  |
| 65° | 54   | 57   |
| 75° | 38   | 40   |
| 85° | 13   | 15   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1335.2 |
| 2.5°  | 1330.9 |
| 5°    | 1321.0 |
| 7.5°  | 1311.1 |
| 10°   | 1302.4 |
| 12.5° | 1301.0 |
| 15°   | 1311.1 |
| 17.5° | 1341.0 |
| 20°   | 1380.8 |
| 22.5° | 1416.4 |
| 25°   | 1427.7 |
| 27.5° | 1402.1 |
| 30°   | 1333.8 |
| 32.5° | 1221.4 |
| 35°   | 1050.6 |
| 37.5° | 815.7  |
| 40°   | 603.5  |
| 42.5° | 468.3  |
| 45°   | 385.8  |
| 47.5° | 324.6  |
| 50°   | 267.6  |
| 52.5° | 210.6  |
| 55°   | 156.6  |
| 57.5° | 113.8  |
| 60°   | 85.5   |
| 62.5° | 66.9   |
| 65°   | 54.1   |
| 67.5° | 46.9   |
| 70°   | 44.1   |
| 72.5° | 41.3   |
| 75°   | 38.4   |
| 77.5° | 34.2   |
| 80°   | 28.5   |
| 82.5° | 21.4   |
| 85°   | 12.8   |
| 87.5° | 5.7    |
| 90°   | 0.0    |

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— 0°-180°

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