

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: P584733

Luminaire Tested: **HCC8W45D010MB-HM82555930-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W45D010MB-HM82555930-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

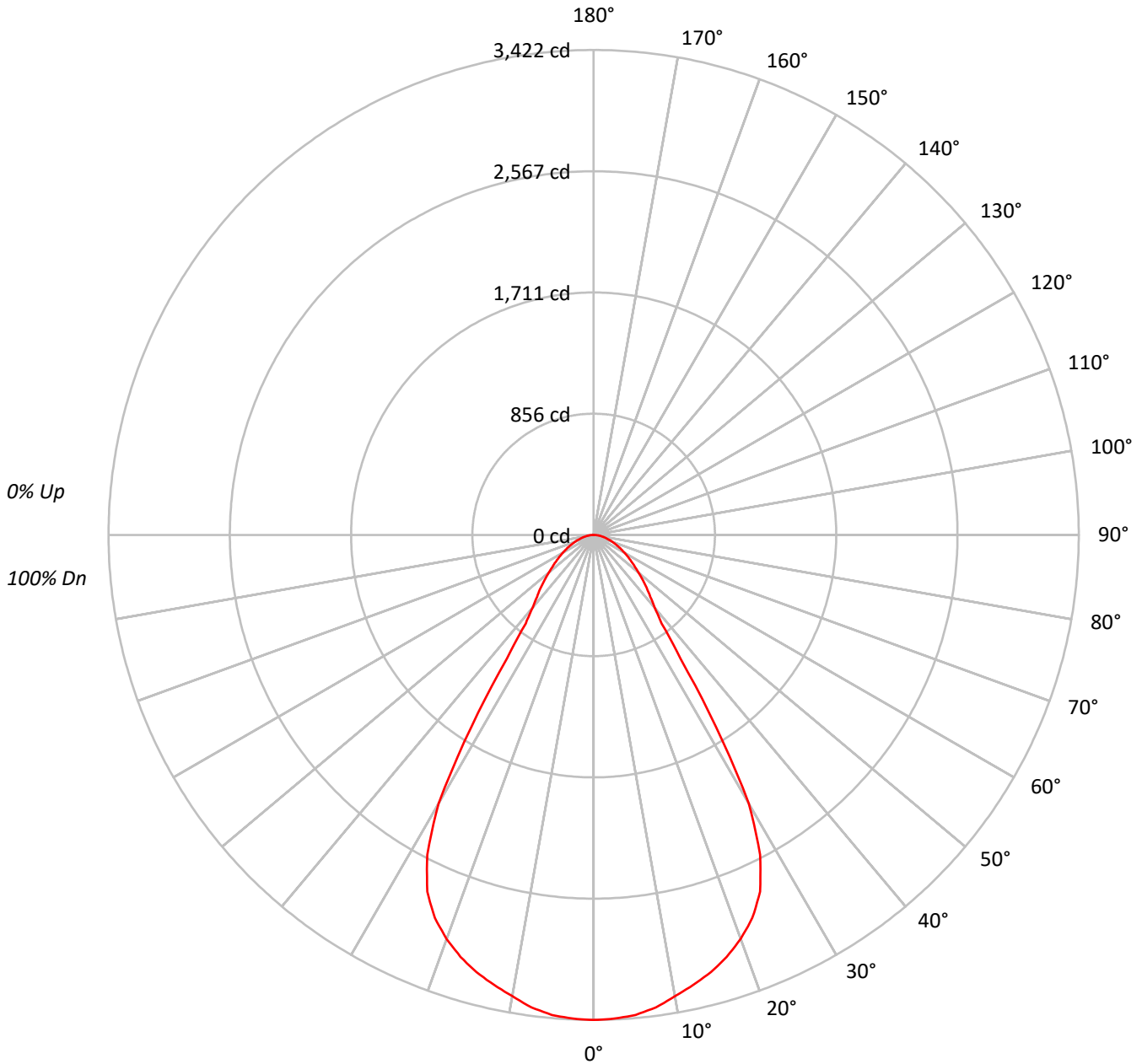
Lumens per Lamp: N/A  
Luminaire Lumens: 4233.9 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |    |    | 90  |
| 2   | 105 | 99  | 94  | 90  | 102 | 97  | 92  | 88  | 94  | 90  | 87  | 91  | 87  | 85  | 88  | 85  | 83  | 81  |    |    | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    | 73  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 75  | 72  | 68  | 67  |    |    | 67  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 64  | 74  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 63  | 61  |    |    | 61  |
| 6   | 82  | 71  | 64  | 59  | 80  | 70  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 66  | 61  | 58  | 56  |    |    | 56  |
| 7   | 77  | 66  | 59  | 54  | 76  | 66  | 59  | 54  | 64  | 58  | 54  | 63  | 58  | 54  | 62  | 57  | 53  | 52  |    |    | 52  |
| 8   | 73  | 62  | 55  | 50  | 71  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |    |    | 48  |
| 9   | 69  | 58  | 51  | 47  | 68  | 57  | 51  | 47  | 56  | 51  | 46  | 55  | 50  | 46  | 55  | 50  | 46  | 45  |    |    | 45  |
| 10  | 65  | 55  | 48  | 44  | 64  | 54  | 48  | 44  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 47  | 43  | 42  |    |    | 42  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 105531 |
| 5°  | 105250 |
| 10° | 103496 |
| 15° | 101982 |
| 20° | 99539  |
| 25° | 94488  |
| 30° | 77936  |
| 35° | 40125  |
| 40° | 26865  |
| 45° | 23034  |
| 50° | 19875  |
| 55° | 17343  |
| 60° | 15406  |
| 65° | 13849  |
| 70° | 12541  |
| 75° | 11307  |
| 80° | 10104  |
| 85° | 10084  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 321.5  | 7.6       |
| 10°-20°   | 898.8  | 21.2      |
| 20°-30°   | 1245.3 | 29.4      |
| 30°-40°   | 748.0  | 17.7      |
| 40°-50°   | 409.5  | 9.7       |
| 50°-60°   | 290.9  | 6.9       |
| 60°-70°   | 188.8  | 4.5       |
| 70°-80°   | 100.9  | 2.4       |
| 80°-90°   | 30.2   | 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°    | 2465.6 | 58.2      |
| 0°-40°    | 3213.6 | 75.9      |
| 0°-60°    | 3913.9 | 92.4      |
| 0°-90°    | 4233.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4233.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3422 |      |
| 5°  | 3400 | 321  |
| 15° | 3194 | 899  |
| 25° | 2777 | 1245 |
| 35° | 1066 | 748  |
| 45° | 528  | 409  |
| 55° | 323  | 291  |
| 65° | 190  | 189  |
| 75° | 95   | 101  |
| 85° | 28   | 30   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3422.3 |
| 2.5°  | 3416.0 |
| 5°    | 3400.2 |
| 7.5°  | 3362.2 |
| 10°   | 3305.3 |
| 12.5° | 3251.6 |
| 15°   | 3194.5 |
| 17.5° | 3121.8 |
| 20°   | 3033.3 |
| 22.5° | 2925.7 |
| 25°   | 2777.1 |
| 27.5° | 2543.1 |
| 30°   | 2188.8 |
| 32.5° | 1603.6 |
| 35°   | 1065.9 |
| 37.5° | 787.6  |
| 40°   | 667.4  |
| 42.5° | 591.4  |
| 45°   | 528.2  |
| 47.5° | 468.1  |
| 50°   | 414.3  |
| 52.5° | 363.7  |
| 55°   | 322.6  |
| 57.5° | 284.7  |
| 60°   | 249.8  |
| 62.5° | 218.3  |
| 65°   | 189.8  |
| 67.5° | 161.3  |
| 70°   | 139.1  |
| 72.5° | 113.9  |
| 75°   | 94.9   |
| 77.5° | 75.9   |
| 80°   | 56.9   |
| 82.5° | 41.2   |
| 85°   | 28.5   |
| 87.5° | 12.7   |
| 90°   | 0.0    |

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— 0°-180°

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