

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: P584775

Luminaire Tested: **HCC8S45D010MB-HM82555940-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584775  
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: HCC8S45D010MB-HM82555940-81WDWB  
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: 5787.5 lumens  
Efficiency: N/A  
Efficacy: 131.5 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

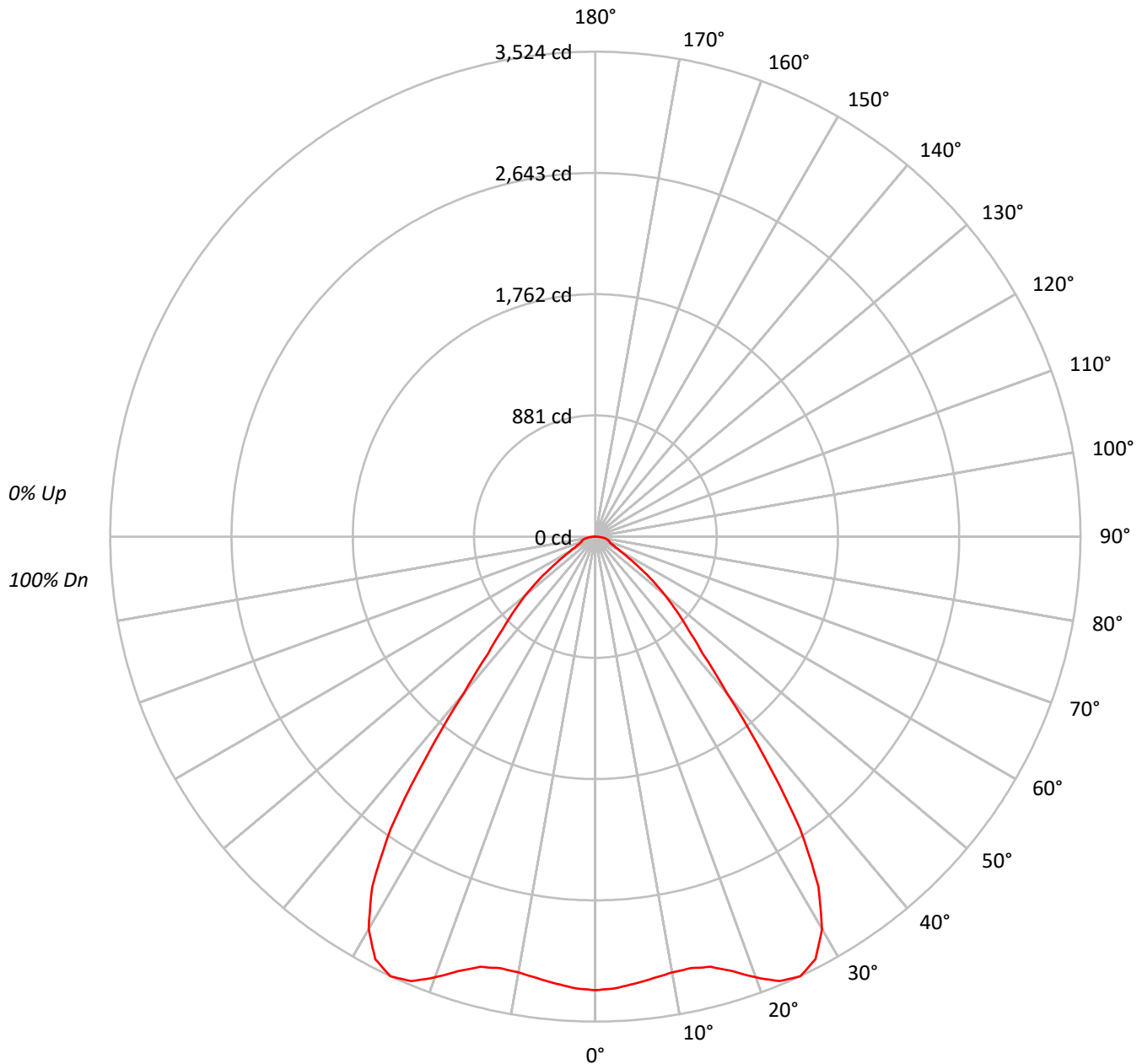
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RW  | 70  | 50  | 30  | 10  |  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 112 | 108 | 105 | 103 |  | 109 | 106 | 103 | 101 |  | 102 | 100 | 98  |  | 98  | 97  | 95  |  | 95  | 93  | 92  |
| 2   | 105 | 99  | 94  | 89  |  | 102 | 97  | 92  | 88  |  | 93  | 90  | 86  |  | 90  | 87  | 84  |  | 88  | 85  | 83  |
| 3   | 98  | 90  | 84  | 79  |  | 96  | 88  | 83  | 78  |  | 86  | 81  | 77  |  | 83  | 79  | 76  |  | 81  | 77  | 74  |
| 4   | 92  | 82  | 75  | 70  |  | 90  | 81  | 75  | 70  |  | 79  | 73  | 69  |  | 77  | 72  | 68  |  | 75  | 71  | 67  |
| 5   | 86  | 75  | 68  | 63  |  | 84  | 74  | 68  | 63  |  | 73  | 67  | 62  |  | 71  | 66  | 62  |  | 69  | 65  | 61  |
| 6   | 80  | 69  | 62  | 57  |  | 79  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 65  | 60  | 56  |  | 64  | 59  | 56  |
| 7   | 75  | 64  | 57  | 52  |  | 74  | 63  | 57  | 52  |  | 62  | 56  | 51  |  | 61  | 55  | 51  |  | 59  | 55  | 51  |
| 8   | 71  | 59  | 52  | 47  |  | 69  | 59  | 52  | 47  |  | 58  | 51  | 47  |  | 56  | 51  | 47  |  | 55  | 50  | 47  |
| 9   | 67  | 55  | 48  | 43  |  | 65  | 55  | 48  | 43  |  | 54  | 47  | 43  |  | 53  | 47  | 43  |  | 52  | 47  | 43  |
| 10  | 63  | 51  | 45  | 40  |  | 62  | 51  | 44  | 40  |  | 50  | 44  | 40  |  | 49  | 44  | 40  |  | 48  | 43  | 40  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 101640 |
| 5°  | 100938 |
| 10° | 100678 |
| 15° | 103319 |
| 20° | 111854 |
| 25° | 119918 |
| 30° | 117239 |
| 35° | 97626  |
| 40° | 59974  |
| 45° | 41525  |
| 50° | 31691  |
| 55° | 20779  |
| 60° | 13001  |
| 65° | 9741   |
| 70° | 9827   |
| 75° | 11307  |
| 80° | 12484  |
| 85° | 11216  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 309.8  | 5.4       |
| 10°-20°   | 929.1  | 16.1      |
| 20°-30°   | 1599.4 | 27.6      |
| 30°-40°   | 1549.6 | 26.8      |
| 40°-50°   | 763.2  | 13.2      |
| 50°-60°   | 360.2  | 6.2       |
| 60°-70°   | 141.9  | 2.5       |
| 70°-80°   | 97.9   | 1.7       |
| 80°-90°   | 36.4   | 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°    | 2838.3 | 49.0      |
| 0°-40°    | 4387.9 | 75.8      |
| 0°-60°    | 5511.2 | 95.2      |
| 0°-90°    | 5787.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5787.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3296 |      |
| 5°  | 3261 | 310  |
| 15° | 3236 | 929  |
| 25° | 3524 | 1599 |
| 35° | 2593 | 1550 |
| 45° | 952  | 763  |
| 55° | 386  | 360  |
| 65° | 134  | 142  |
| 75° | 95   | 98   |
| 85° | 32   | 36   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 3296.1 |
| 2.5°  | 3285.6 |
| 5°    | 3260.9 |
| 7.5°  | 3236.4 |
| 10°   | 3215.3 |
| 12.5° | 3211.8 |
| 15°   | 3236.4 |
| 17.5° | 3310.2 |
| 20°   | 3408.6 |
| 22.5° | 3496.5 |
| 25°   | 3524.5 |
| 27.5° | 3461.3 |
| 30°   | 3292.6 |
| 32.5° | 3015.0 |
| 35°   | 2593.4 |
| 37.5° | 2013.6 |
| 40°   | 1489.9 |
| 42.5° | 1156.1 |
| 45°   | 952.2  |
| 47.5° | 801.2  |
| 50°   | 660.6  |
| 52.5° | 520.1  |
| 55°   | 386.5  |
| 57.5° | 281.2  |
| 60°   | 210.8  |
| 62.5° | 165.2  |
| 65°   | 133.5  |
| 67.5° | 116.0  |
| 70°   | 109.0  |
| 72.5° | 101.9  |
| 75°   | 94.9   |
| 77.5° | 84.3   |
| 80°   | 70.3   |
| 82.5° | 52.7   |
| 85°   | 31.7   |
| 87.5° | 14.1   |
| 90°   | 0.0    |

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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Peachtree City, GA 30269

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## Scaled Data Report



— 0°-180°

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