

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: P584767

Luminaire Tested: **HCC8S45D010SL-HM82555940-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584767  
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: HCC8S45D010SL-HM82555940-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4705.2 lumens  
Efficiency: N/A  
Efficacy: 106.9 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

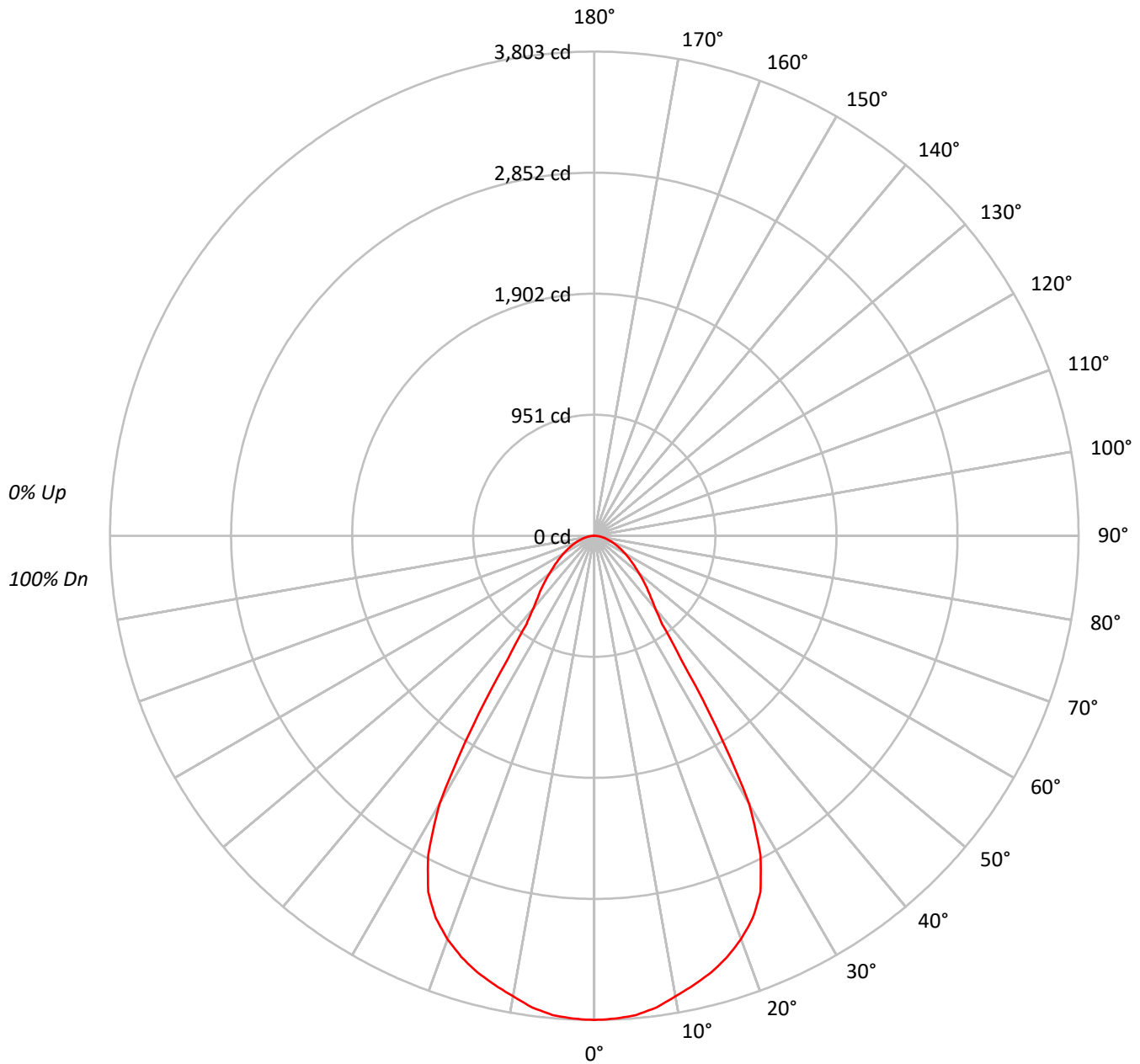
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |  |  |   |
| 2   | 105 | 99  | 94  | 90  | 102 | 97  | 92  | 88  | 94  | 90  | 87  | 91  | 87  | 85  | 88  | 85  | 83  | 81  |  |  |   |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |  |  |   |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 75  | 72  | 68  | 67  |  |  |   |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 64  | 74  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 63  | 61  |  |  |   |
| 6   | 82  | 71  | 64  | 59  | 80  | 70  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 66  | 61  | 58  | 56  |  |  |   |
| 7   | 77  | 66  | 59  | 54  | 76  | 66  | 59  | 54  | 64  | 58  | 54  | 63  | 58  | 54  | 62  | 57  | 53  | 52  |  |  |   |
| 8   | 73  | 62  | 55  | 50  | 71  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |  |  |   |
| 9   | 69  | 58  | 51  | 47  | 68  | 57  | 51  | 47  | 56  | 51  | 46  | 55  | 50  | 46  | 55  | 50  | 46  | 45  |  |  |   |
| 10  | 65  | 55  | 48  | 44  | 64  | 54  | 48  | 44  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 47  | 43  | 42  |  |  |   |

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

|     | 0°     |
|-----|--------|
| 0°  | 117277 |
| 5°  | 116966 |
| 10° | 115015 |
| 15° | 113337 |
| 20° | 110617 |
| 25° | 105005 |
| 30° | 86613  |
| 35° | 44593  |
| 40° | 29856  |
| 45° | 25599  |
| 50° | 22091  |
| 55° | 19279  |
| 60° | 17120  |
| 65° | 15388  |
| 70° | 13948  |
| 75° | 12570  |
| 80° | 11223  |
| 85° | 11216  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 357.3  | 7.6       |
| 10°-20°   | 998.8  | 21.2      |
| 20°-30°   | 1384.0 | 29.4      |
| 30°-40°   | 831.3  | 17.7      |
| 40°-50°   | 455.1  | 9.7       |
| 50°-60°   | 323.3  | 6.9       |
| 60°-70°   | 209.9  | 4.5       |
| 70°-80°   | 112.2  | 2.4       |
| 80°-90°   | 33.5   | 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°    | 2740.1 | 58.2      |
| 0°-40°    | 3571.3 | 75.9      |
| 0°-60°    | 4349.7 | 92.4      |
| 0°-90°    | 4705.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4705.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3803 |      |
| 5°  | 3779 | 357  |
| 15° | 3550 | 999  |
| 25° | 3086 | 1384 |
| 35° | 1185 | 831  |
| 45° | 587  | 455  |
| 55° | 359  | 323  |
| 65° | 211  | 210  |
| 75° | 106  | 112  |
| 85° | 32   | 33   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3803.2 |
| 2.5°  | 3796.2 |
| 5°    | 3778.7 |
| 7.5°  | 3736.5 |
| 10°   | 3673.2 |
| 12.5° | 3613.4 |
| 15°   | 3550.2 |
| 17.5° | 3469.4 |
| 20°   | 3370.9 |
| 22.5° | 3251.4 |
| 25°   | 3086.2 |
| 27.5° | 2826.1 |
| 30°   | 2432.5 |
| 32.5° | 1782.1 |
| 35°   | 1184.6 |
| 37.5° | 875.3  |
| 40°   | 741.7  |
| 42.5° | 657.3  |
| 45°   | 587.0  |
| 47.5° | 520.2  |
| 50°   | 460.5  |
| 52.5° | 404.2  |
| 55°   | 358.6  |
| 57.5° | 316.4  |
| 60°   | 277.6  |
| 62.5° | 242.6  |
| 65°   | 210.9  |
| 67.5° | 179.2  |
| 70°   | 154.7  |
| 72.5° | 126.6  |
| 75°   | 105.5  |
| 77.5° | 84.3   |
| 80°   | 63.2   |
| 82.5° | 45.7   |
| 85°   | 31.7   |
| 87.5° | 14.1   |
| 90°   | 0.0    |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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Peachtree City, GA 30269

Scaled Data Report





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## Scaled Data Report



— 0°-180°

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Scaled Data Report



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