

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: P584886

Luminaire Tested: **HCC8S50D010SL-HM82555935-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584886  
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: HCC8S50D010SL-HM82555935-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

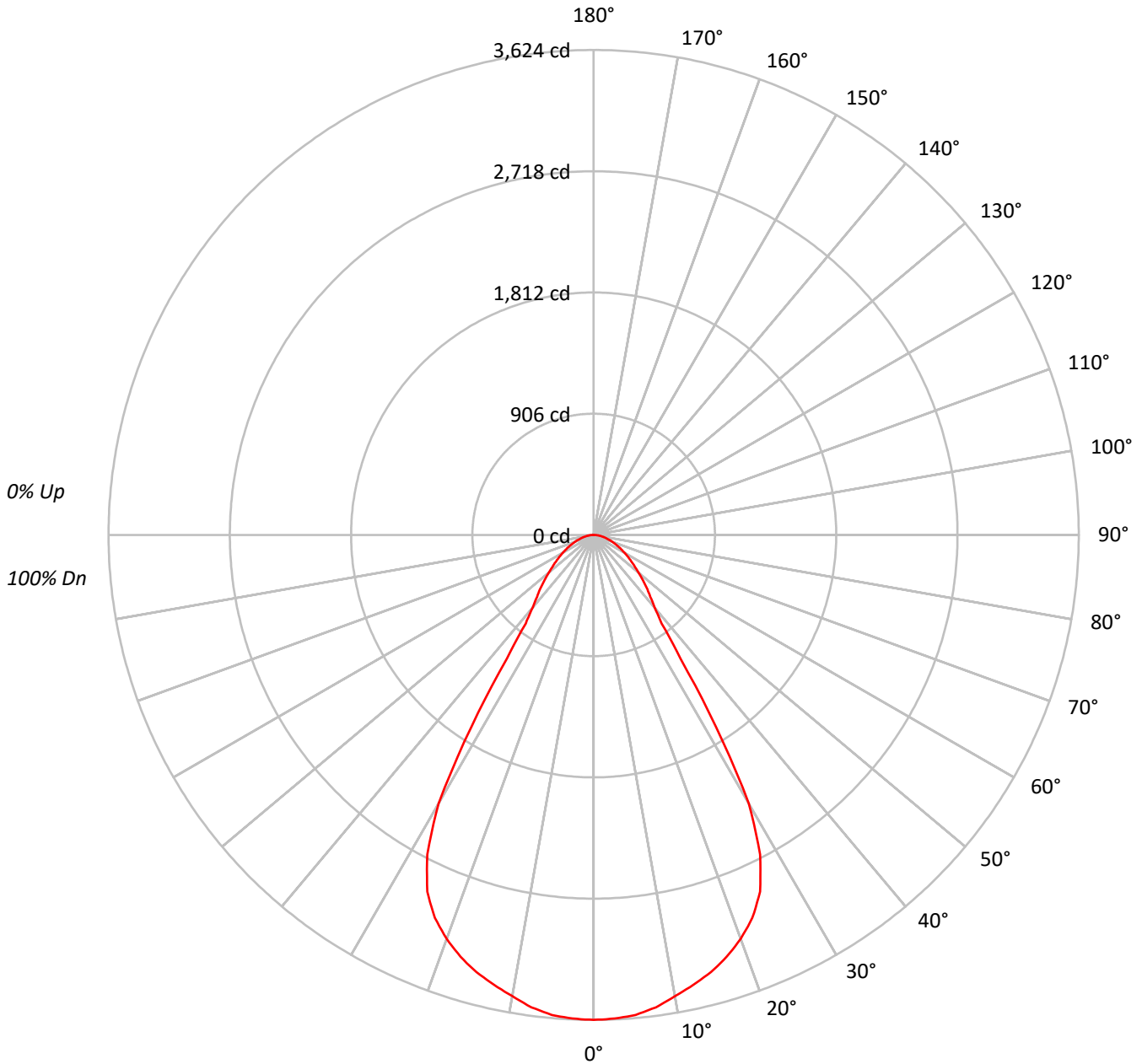
Lumens per Lamp: N/A  
Luminaire Lumens: 4483.7 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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 |    |    |    |   |
| 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°  | 111754 |
| 5°  | 111460 |
| 10° | 109598 |
| 15° | 107999 |
| 20° | 105409 |
| 25° | 100062 |
| 30° | 82533  |
| 35° | 42493  |
| 40° | 28451  |
| 45° | 24395  |
| 50° | 21050  |
| 55° | 18370  |
| 60° | 16325  |
| 65° | 14666  |
| 70° | 13289  |
| 75° | 11974  |
| 80° | 10708  |
| 85° | 10685  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 340.4  | 7.6       |
| 10°-20°   | 951.8  | 21.2      |
| 20°-30°   | 1318.8 | 29.4      |
| 30°-40°   | 792.1  | 17.7      |
| 40°-50°   | 433.7  | 9.7       |
| 50°-60°   | 308.1  | 6.9       |
| 60°-70°   | 200.0  | 4.5       |
| 70°-80°   | 106.9  | 2.4       |
| 80°-90°   | 31.9   | 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°    | 2611.0 | 58.2      |
| 0°-40°    | 3403.2 | 75.9      |
| 0°-60°    | 4144.9 | 92.4      |
| 0°-90°    | 4483.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4483.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3624 |      |
| 5°  | 3601 | 340  |
| 15° | 3383 | 952  |
| 25° | 2941 | 1319 |
| 35° | 1129 | 792  |
| 45° | 559  | 434  |
| 55° | 342  | 308  |
| 65° | 201  | 200  |
| 75° | 100  | 107  |
| 85° | 30   | 32   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3624.1 |
| 2.5°  | 3617.5 |
| 5°    | 3600.8 |
| 7.5°  | 3560.5 |
| 10°   | 3500.2 |
| 12.5° | 3443.3 |
| 15°   | 3383.0 |
| 17.5° | 3305.9 |
| 20°   | 3212.2 |
| 22.5° | 3098.3 |
| 25°   | 2940.9 |
| 27.5° | 2693.0 |
| 30°   | 2317.9 |
| 32.5° | 1698.2 |
| 35°   | 1128.8 |
| 37.5° | 834.1  |
| 40°   | 706.8  |
| 42.5° | 626.4  |
| 45°   | 559.4  |
| 47.5° | 495.8  |
| 50°   | 438.8  |
| 52.5° | 385.2  |
| 55°   | 341.7  |
| 57.5° | 301.5  |
| 60°   | 264.7  |
| 62.5° | 231.1  |
| 65°   | 201.0  |
| 67.5° | 170.8  |
| 70°   | 147.4  |
| 72.5° | 120.6  |
| 75°   | 100.5  |
| 77.5° | 80.4   |
| 80°   | 60.3   |
| 82.5° | 43.5   |
| 85°   | 30.2   |
| 87.5° | 13.4   |
| 90°   | 0.0    |

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— 0°-180°

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