

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: P584887

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S50D010SL-HM82555935-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

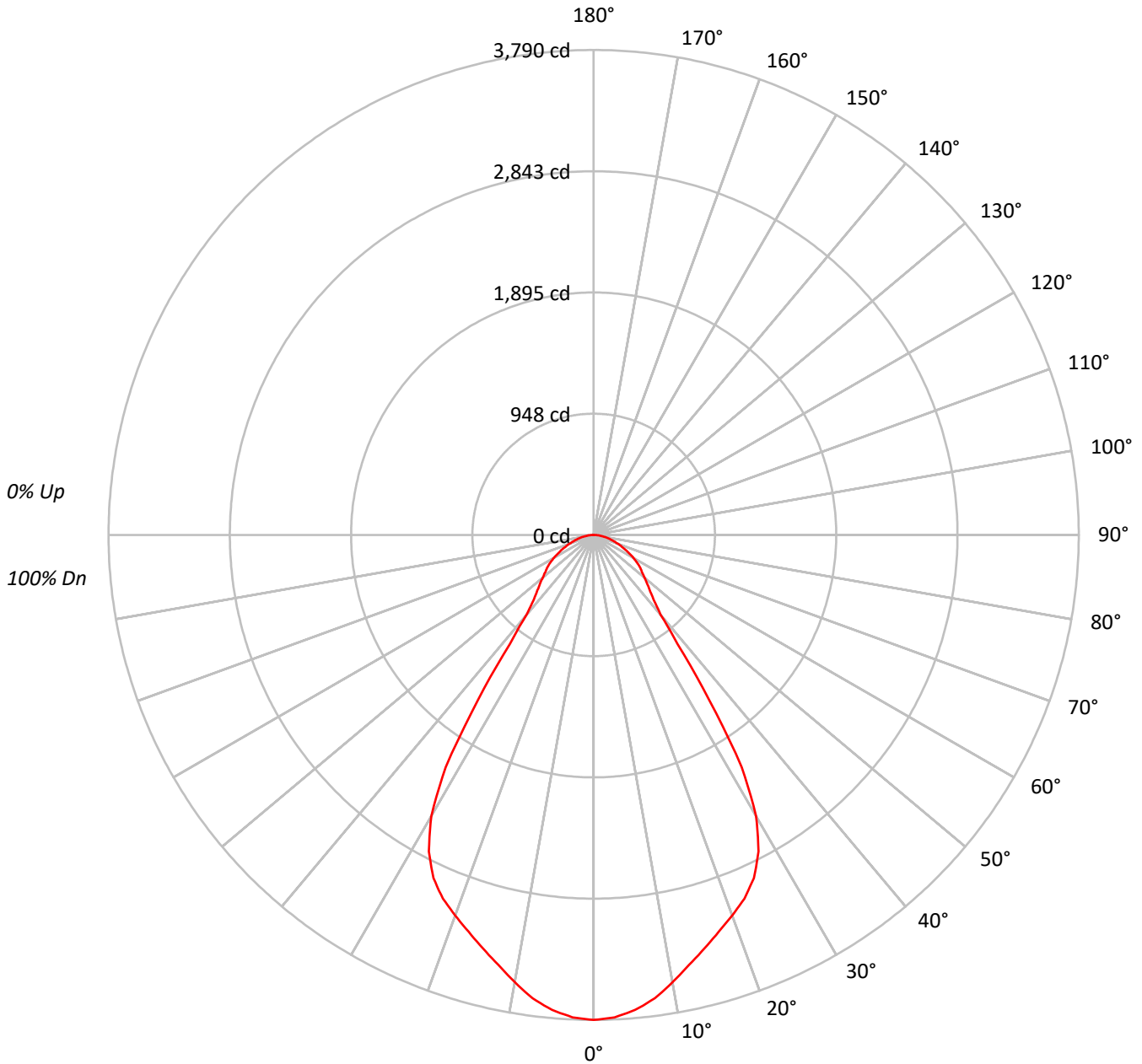
Lumens per Lamp: N/A  
Luminaire Lumens: 4979.2 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 101 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 89  |    |    |
| 2   | 104 | 98  | 92  | 88  | 102 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 84  | 81  | 79  |    |    |
| 3   | 97  | 89  | 83  | 77  | 95  | 87  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 74  | 80  | 76  | 73  | 71  |    |    |
| 4   | 91  | 81  | 74  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 66  | 64  |    |    |
| 5   | 85  | 75  | 68  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 58  |    |    |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 61  | 56  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |
| 9   | 67  | 56  | 49  | 44  | 66  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 52  | 47  | 44  | 42  |    |    |
| 10  | 64  | 52  | 46  | 41  | 62  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 49  | 44  | 41  | 39  |    |    |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 116876 |
| 5°  | 115357 |
| 10° | 111133 |
| 15° | 106783 |
| 20° | 103831 |
| 25° | 100708 |
| 30° | 90370  |
| 35° | 59241  |
| 40° | 32751  |
| 45° | 27304  |
| 50° | 24898  |
| 55° | 23763  |
| 60° | 22097  |
| 65° | 20036  |
| 70° | 18122  |
| 75° | 16346  |
| 80° | 14863  |
| 85° | 14223  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 350.1  | 7.0       |
| 10°-20°   | 943.7  | 19.0      |
| 20°-30°   | 1343.0 | 27.0      |
| 30°-40°   | 994.0  | 20.0      |
| 40°-50°   | 492.3  | 9.9       |
| 50°-60°   | 392.9  | 7.9       |
| 60°-70°   | 272.8  | 5.5       |
| 70°-80°   | 147.0  | 3.0       |
| 80°-90°   | 43.3   | 0.9       |
| 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°    | 2636.9 | 53.0      |
| 0°-40°    | 3630.9 | 72.9      |
| 0°-60°    | 4516.1 | 90.7      |
| 0°-90°    | 4979.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4979.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3790 |      |
| 5°  | 3727 | 350  |
| 15° | 3345 | 944  |
| 25° | 2960 | 1343 |
| 35° | 1574 | 994  |
| 45° | 626  | 492  |
| 55° | 442  | 393  |
| 65° | 275  | 273  |
| 75° | 137  | 147  |
| 85° | 40   | 43   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3790.2 |
| 2.5°  | 3773.5 |
| 5°    | 3726.7 |
| 7.5°  | 3652.9 |
| 10°   | 3549.2 |
| 12.5° | 3442.0 |
| 15°   | 3344.9 |
| 17.5° | 3251.1 |
| 20°   | 3164.1 |
| 22.5° | 3077.0 |
| 25°   | 2959.9 |
| 27.5° | 2789.1 |
| 30°   | 2538.0 |
| 32.5° | 2152.9 |
| 35°   | 1573.7 |
| 37.5° | 1074.8 |
| 40°   | 813.6  |
| 42.5° | 696.5  |
| 45°   | 626.1  |
| 47.5° | 569.2  |
| 50°   | 519.0  |
| 52.5° | 475.4  |
| 55°   | 442.0  |
| 57.5° | 401.8  |
| 60°   | 358.3  |
| 62.5° | 314.7  |
| 65°   | 274.6  |
| 67.5° | 234.4  |
| 70°   | 201.0  |
| 72.5° | 167.4  |
| 75°   | 137.2  |
| 77.5° | 110.5  |
| 80°   | 83.7   |
| 82.5° | 60.3   |
| 85°   | 40.2   |
| 87.5° | 16.7   |
| 90°   | 0.0    |

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Scaled Data Report



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— 0°-180°

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