

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: P593798

Luminaire Tested: **HCC8W50D010SL-HM82555850-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593798  
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: HCC8W50D010SL-HM82555850-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

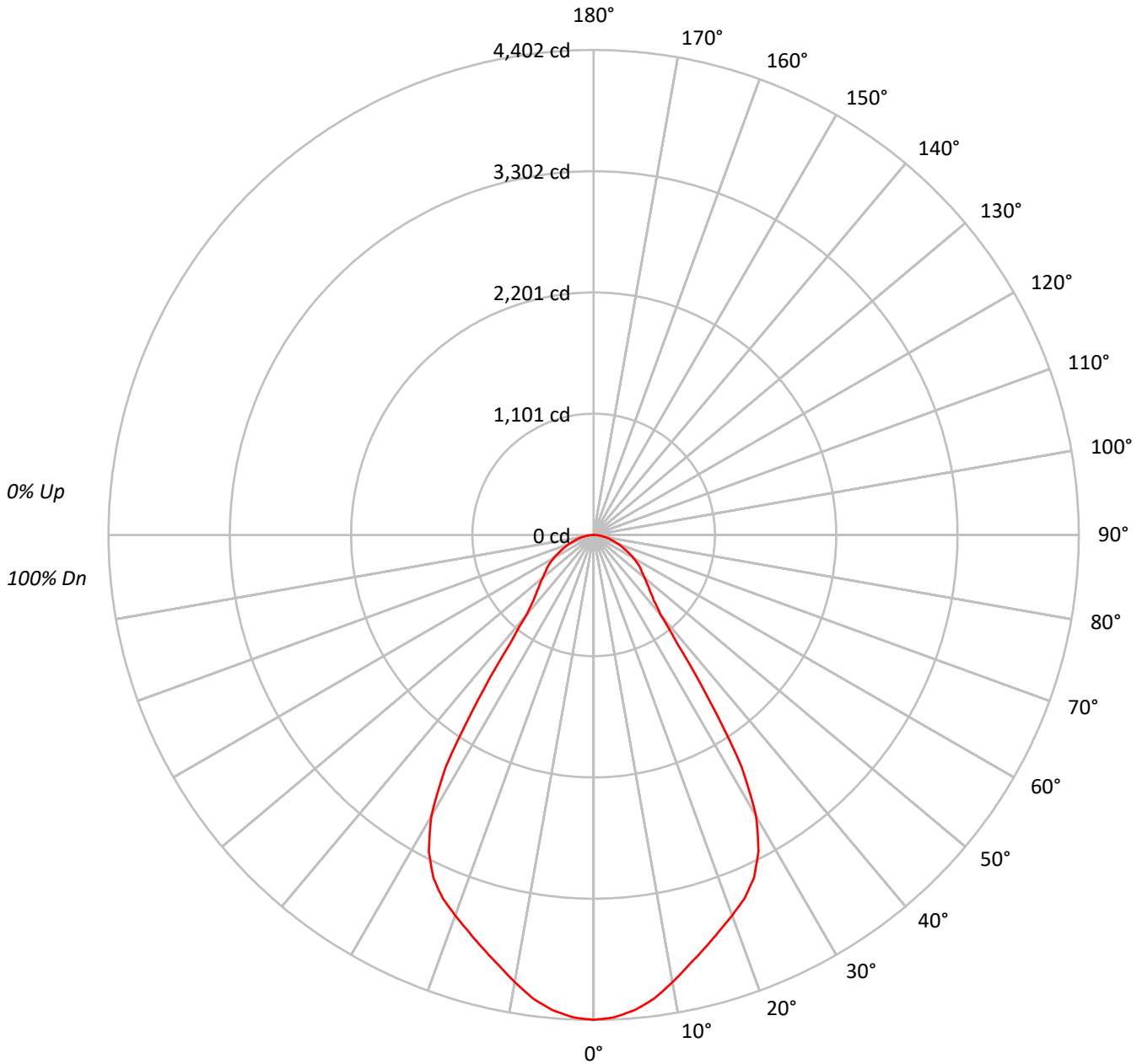
Lumens per Lamp: N/A  
Luminaire Lumens: 5782.8 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 135738 |
| 5°  | 133969 |
| 10° | 129065 |
| 15° | 124016 |
| 20° | 120590 |
| 25° | 116961 |
| 30° | 104951 |
| 35° | 68799  |
| 40° | 38036  |
| 45° | 31708  |
| 50° | 28913  |
| 55° | 27596  |
| 60° | 25656  |
| 65° | 23269  |
| 70° | 21034  |
| 75° | 19003  |
| 80° | 17278  |
| 85° | 16487  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 406.6  | 7.0       |
| 10°-20°   | 1096.0 | 19.0      |
| 20°-30°   | 1559.8 | 27.0      |
| 30°-40°   | 1154.4 | 20.0      |
| 40°-50°   | 571.8  | 9.9       |
| 50°-60°   | 456.4  | 7.9       |
| 60°-70°   | 316.8  | 5.5       |
| 70°-80°   | 170.8  | 3.0       |
| 80°-90°   | 50.2   | 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°    | 3062.4 | 53.0      |
| 0°-40°    | 4216.8 | 72.9      |
| 0°-60°    | 5245.0 | 90.7      |
| 0°-90°    | 5782.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5782.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4402 |      |
| 5°  | 4328 | 407  |
| 15° | 3885 | 1096 |
| 25° | 3438 | 1560 |
| 35° | 1828 | 1154 |
| 45° | 727  | 572  |
| 55° | 513  | 456  |
| 65° | 319  | 317  |
| 75° | 160  | 171  |
| 85° | 47   | 50   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 4401.9 |
| 2.5°  | 4382.5 |
| 5°    | 4328.0 |
| 7.5°  | 4242.4 |
| 10°   | 4121.9 |
| 12.5° | 3997.5 |
| 15°   | 3884.7 |
| 17.5° | 3775.9 |
| 20°   | 3674.8 |
| 22.5° | 3573.6 |
| 25°   | 3437.6 |
| 27.5° | 3239.2 |
| 30°   | 2947.5 |
| 32.5° | 2500.4 |
| 35°   | 1827.6 |
| 37.5° | 1248.3 |
| 40°   | 944.9  |
| 42.5° | 808.8  |
| 45°   | 727.1  |
| 47.5° | 661.1  |
| 50°   | 602.7  |
| 52.5° | 552.2  |
| 55°   | 513.3  |
| 57.5° | 466.7  |
| 60°   | 416.0  |
| 62.5° | 365.5  |
| 65°   | 318.9  |
| 67.5° | 272.3  |
| 70°   | 233.3  |
| 72.5° | 194.4  |
| 75°   | 159.5  |
| 77.5° | 128.4  |
| 80°   | 97.3   |
| 82.5° | 70.0   |
| 85°   | 46.6   |
| 87.5° | 19.4   |
| 90°   | 0.0    |

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— 0°-180°

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