

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: P581526

Luminaire Tested: **HCC4S07D010SL-HM40525935-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581526  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S07D010SL-HM40525935-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

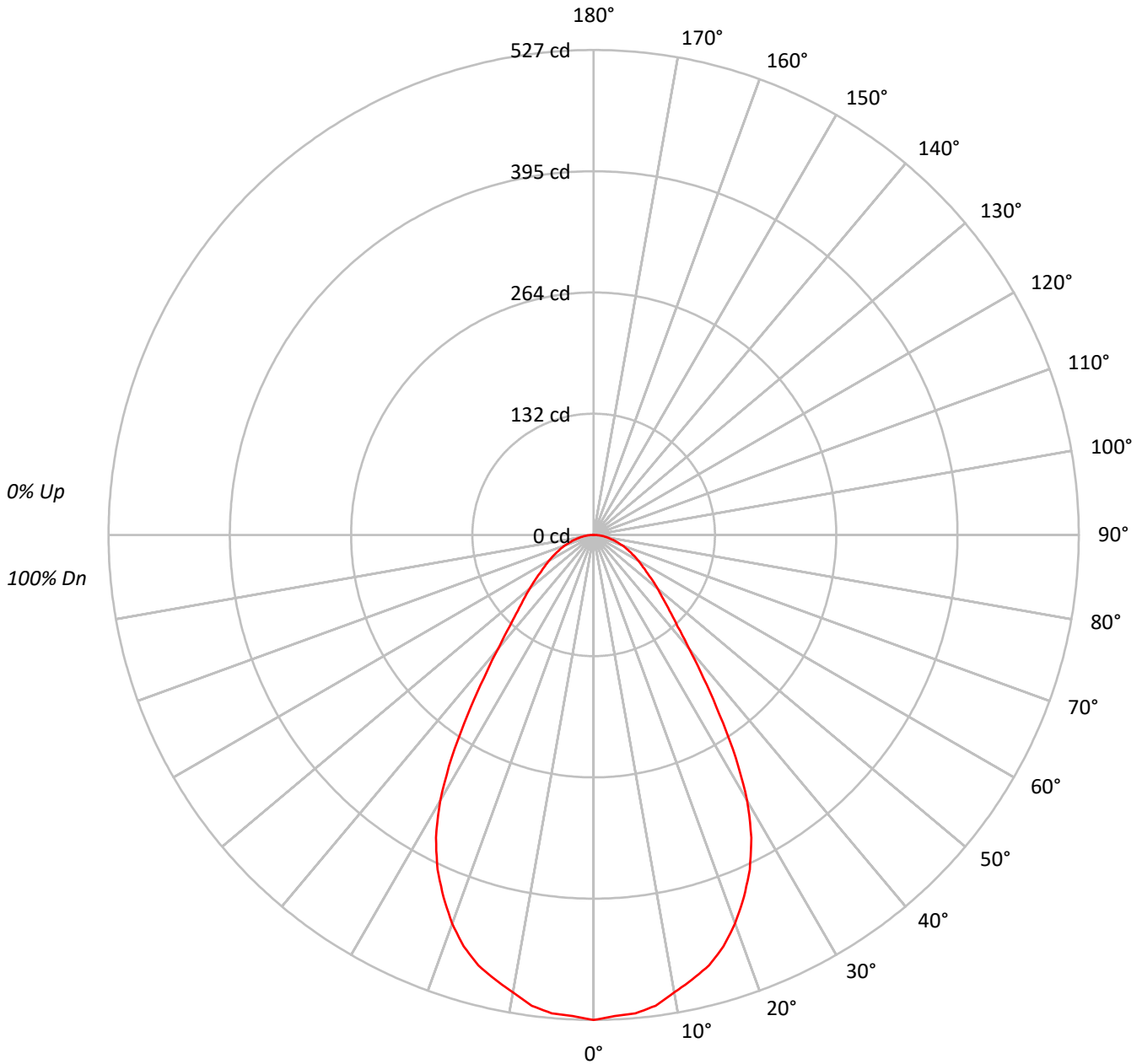
Lumens per Lamp: N/A  
Luminaire Lumens: 748.5 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
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   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99  | 101 | 99  | 96  | 97  | 95  | 93  | 94  | 92  | 91  | 89  |    |    |   |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 82  | 86  | 83  | 80  | 78  |    |    |   |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 84  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |   |
| 4   | 90  | 80  | 73  | 68  | 88  | 79  | 72  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 68  | 65  | 63  |    |    |   |
| 5   | 84  | 74  | 66  | 61  | 82  | 72  | 66  | 60  | 71  | 64  | 60  | 69  | 63  | 59  | 67  | 62  | 59  | 57  |    |    |   |
| 6   | 79  | 68  | 60  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 53  | 52  |    |    |   |
| 7   | 74  | 63  | 55  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |   |
| 8   | 70  | 58  | 51  | 46  | 68  | 58  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 45  | 54  | 49  | 45  | 44  |    |    |   |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |   |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |   |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 65015 |
| 5°  | 64608 |
| 10° | 63225 |
| 15° | 61831 |
| 20° | 58976 |
| 25° | 54588 |
| 30° | 47485 |
| 35° | 35867 |
| 40° | 25988 |
| 45° | 20304 |
| 50° | 17366 |
| 55° | 15032 |
| 60° | 13839 |
| 65° | 12667 |
| 70° | 11829 |
| 75° | 10866 |
| 80° | 10158 |
| 85° | 9624  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.3   | 6.6       |
| 10°-20°   | 135.6  | 18.1      |
| 20°-30°   | 182.4  | 24.4      |
| 30°-40°   | 150.0  | 20.0      |
| 40°-50°   | 92.1   | 12.3      |
| 50°-60°   | 63.8   | 8.5       |
| 60°-70°   | 43.4   | 5.8       |
| 70°-80°   | 24.2   | 3.2       |
| 80°-90°   | 7.7    | 1.0       |
| 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°    | 367.3  | 49.1      |
| 0°-40°    | 517.3  | 69.1      |
| 0°-60°    | 673.2  | 89.9      |
| 0°-90°    | 748.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 748.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 527 |      |
| 5°  | 522 | 49   |
| 15° | 484 | 136  |
| 25° | 401 | 182  |
| 35° | 238 | 150  |
| 45° | 116 | 92   |
| 55° | 70  | 64   |
| 65° | 43  | 43   |
| 75° | 23  | 24   |
| 85° | 7   | 8    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 527.1 |
| 2.5°  | 523.4 |
| 5°    | 521.8 |
| 7.5°  | 516.0 |
| 10°   | 504.8 |
| 12.5° | 494.8 |
| 15°   | 484.2 |
| 17.5° | 468.9 |
| 20°   | 449.3 |
| 22.5° | 426.1 |
| 25°   | 401.1 |
| 27.5° | 371.0 |
| 30°   | 333.4 |
| 32.5° | 287.3 |
| 35°   | 238.2 |
| 37.5° | 195.8 |
| 40°   | 161.4 |
| 42.5° | 135.0 |
| 45°   | 116.4 |
| 47.5° | 102.2 |
| 50°   | 90.5  |
| 52.5° | 79.9  |
| 55°   | 69.9  |
| 57.5° | 62.5  |
| 60°   | 56.1  |
| 62.5° | 49.7  |
| 65°   | 43.4  |
| 67.5° | 38.1  |
| 70°   | 32.8  |
| 72.5° | 27.5  |
| 75°   | 22.8  |
| 77.5° | 18.0  |
| 80°   | 14.3  |
| 82.5° | 10.6  |
| 85°   | 6.8   |
| 87.5° | 3.8   |
| 90°   | 0.0   |

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Scaled Data Report



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— 0°-180°

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