

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: P580518

Luminaire Tested: **HCC4W35D010SL-HM43040935-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580518  
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: HCC4W35D010SL-HM43040935-41PSMDW  
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**

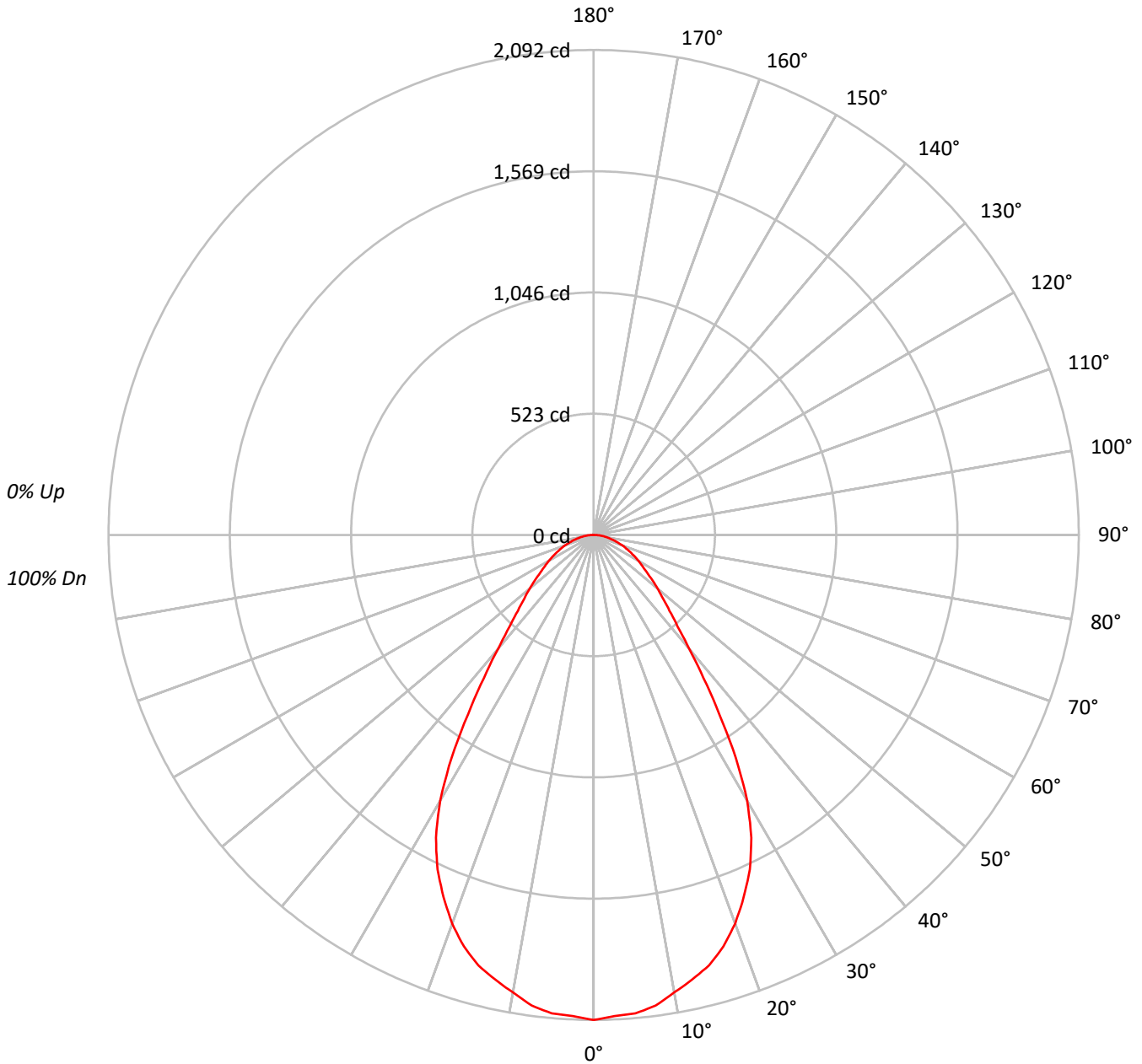
Lumens per Lamp: N/A  
Luminaire Lumens: 2971.2 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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°  | 258076 |
| 5°  | 256462 |
| 10° | 251010 |
| 15° | 245459 |
| 20° | 234118 |
| 25° | 216721 |
| 30° | 188488 |
| 35° | 142341 |
| 40° | 103163 |
| 45° | 80625  |
| 50° | 68928  |
| 55° | 59632  |
| 60° | 54938  |
| 65° | 50288  |
| 70° | 46991  |
| 75° | 43082  |
| 80° | 40346  |
| 85° | 38636  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 195.6  | 6.6       |
| 10°-20°   | 538.4  | 18.1      |
| 20°-30°   | 724.0  | 24.4      |
| 30°-40°   | 595.3  | 20.0      |
| 40°-50°   | 365.6  | 12.3      |
| 50°-60°   | 253.0  | 8.5       |
| 60°-70°   | 172.5  | 5.8       |
| 70°-80°   | 96.2   | 3.2       |
| 80°-90°   | 30.6   | 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°    | 1458.1 | 49.1      |
| 0°-40°    | 2053.4 | 69.1      |
| 0°-60°    | 2672.0 | 89.9      |
| 0°-90°    | 2971.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2971.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2092 |      |
| 5°  | 2071 | 196  |
| 15° | 1922 | 538  |
| 25° | 1592 | 724  |
| 35° | 945  | 595  |
| 45° | 462  | 366  |
| 55° | 277  | 253  |
| 65° | 172  | 173  |
| 75° | 90   | 96   |
| 85° | 27   | 31   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2092.3 |
| 2.5°  | 2077.6 |
| 5°    | 2071.3 |
| 7.5°  | 2048.2 |
| 10°   | 2004.1 |
| 12.5° | 1964.2 |
| 15°   | 1922.2 |
| 17.5° | 1861.2 |
| 20°   | 1783.6 |
| 22.5° | 1691.1 |
| 25°   | 1592.4 |
| 27.5° | 1472.6 |
| 30°   | 1323.4 |
| 32.5° | 1140.6 |
| 35°   | 945.3  |
| 37.5° | 777.2  |
| 40°   | 640.7  |
| 42.5° | 535.7  |
| 45°   | 462.2  |
| 47.5° | 405.4  |
| 50°   | 359.2  |
| 52.5° | 317.2  |
| 55°   | 277.3  |
| 57.5° | 247.8  |
| 60°   | 222.7  |
| 62.5° | 197.5  |
| 65°   | 172.3  |
| 67.5° | 151.3  |
| 70°   | 130.3  |
| 72.5° | 109.3  |
| 75°   | 90.4   |
| 77.5° | 71.4   |
| 80°   | 56.8   |
| 82.5° | 42.0   |
| 85°   | 27.3   |
| 87.5° | 14.7   |
| 90°   | 0.0    |

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— 0°-180°

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