

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: P584246

Luminaire Tested: **HCC8S30D010MW-HM82555827-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S30D010MW-HM82555827-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

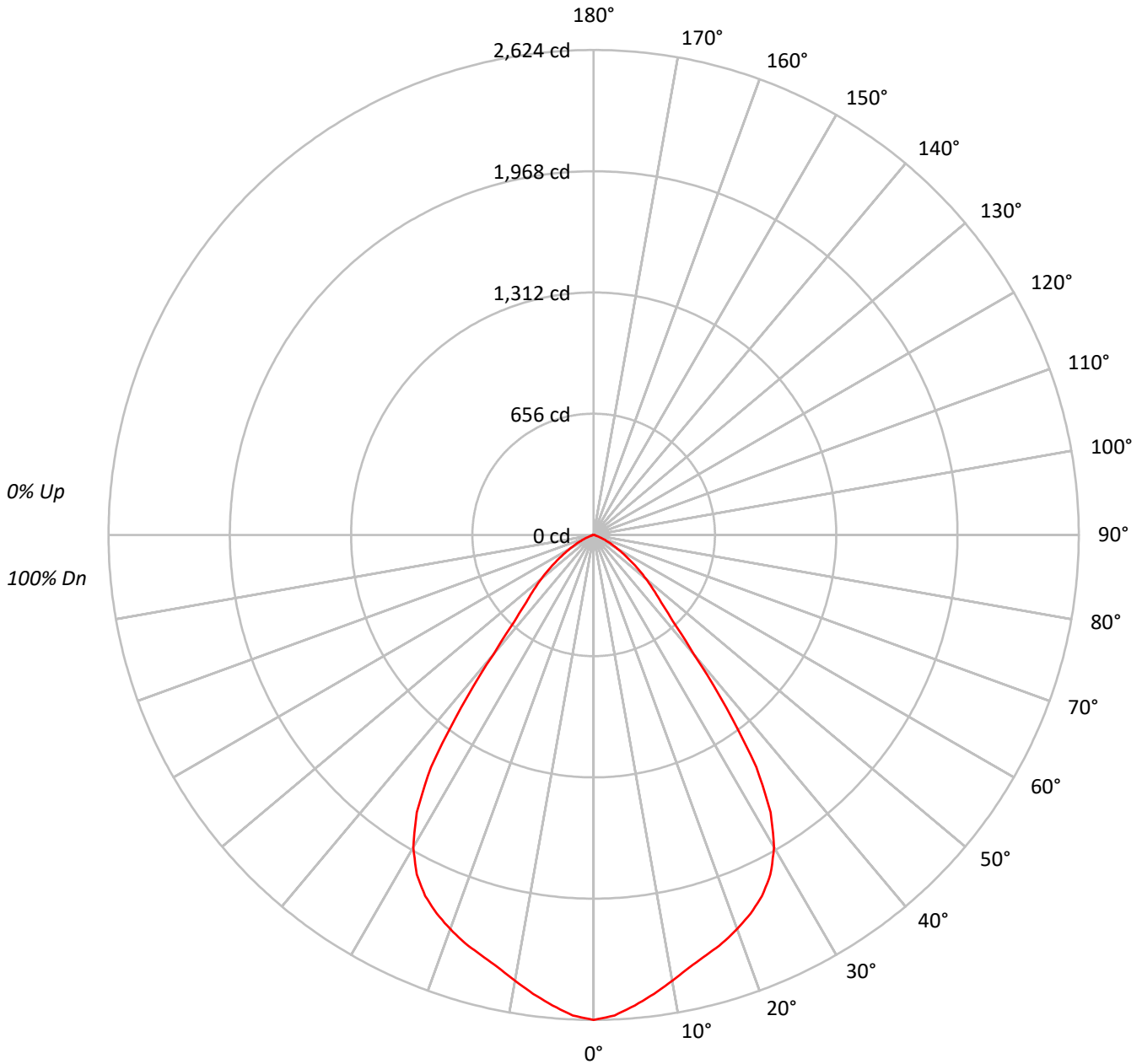
Lumens per Lamp: N/A  
Luminaire Lumens: 3535.0 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  |  | 99  | 98  | 96  |  | 96  | 95  | 93  | 92  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  |  | 92  | 89  | 86  |  | 89  | 87  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  |  | 85  | 81  | 78  |  | 83  | 80  | 77  | 75  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 76  | 72  |  | 79  | 74  | 71  |  | 77  | 73  | 70  | 68  |
| 5   | 87  | 78  | 71  | 66  | 86  | 77  | 70  | 66  | 75  | 69  | 65  |  | 73  | 68  | 64  |  | 71  | 67  | 64  | 62  |
| 6   | 82  | 72  | 65  | 60  | 80  | 71  | 64  | 60  | 69  | 64  | 59  |  | 68  | 63  | 59  |  | 66  | 62  | 58  | 57  |
| 7   | 77  | 67  | 60  | 55  | 76  | 66  | 59  | 55  | 64  | 59  | 54  |  | 63  | 58  | 54  |  | 62  | 57  | 54  | 52  |
| 8   | 73  | 62  | 55  | 50  | 71  | 61  | 55  | 50  | 60  | 54  | 50  |  | 59  | 54  | 50  |  | 58  | 53  | 49  | 48  |
| 9   | 69  | 58  | 51  | 46  | 67  | 57  | 51  | 46  | 56  | 50  | 46  |  | 55  | 50  | 46  |  | 54  | 49  | 46  | 44  |
| 10  | 65  | 54  | 47  | 43  | 64  | 53  | 47  | 43  | 53  | 47  | 43  |  | 52  | 46  | 43  |  | 51  | 46  | 42  | 41  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 80930 |
| 5°  | 79103 |
| 10° | 76680 |
| 15° | 75130 |
| 20° | 74451 |
| 25° | 73339 |
| 30° | 69472 |
| 35° | 57720 |
| 40° | 33990 |
| 45° | 22485 |
| 50° | 17697 |
| 55° | 13021 |
| 60° | 9047  |
| 65° | 5509  |
| 70° | 2398  |
| 75° | 1060  |
| 80° | 781   |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 240.7  | 6.8       |
| 10°-20°   | 665.3  | 18.8      |
| 20°-30°   | 985.7  | 27.9      |
| 30°-40°   | 910.9  | 25.8      |
| 40°-50°   | 420.0  | 11.9      |
| 50°-60°   | 220.9  | 6.2       |
| 60°-70°   | 78.1   | 2.2       |
| 70°-80°   | 12.3   | 0.3       |
| 80°-90°   | 1.2    | 0.0       |
| 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°    | 1891.7 | 53.5      |
| 0°-40°    | 2802.5 | 79.3      |
| 0°-60°    | 3443.4 | 97.4      |
| 0°-90°    | 3535.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3535.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2624 |      |
| 5°  | 2556 | 241  |
| 15° | 2353 | 665  |
| 25° | 2156 | 986  |
| 35° | 1533 | 911  |
| 45° | 516  | 420  |
| 55° | 242  | 221  |
| 65° | 76   | 78   |
| 75° | 9    | 12   |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2624.5 |
| 2.5°  | 2602.2 |
| 5°    | 2555.5 |
| 7.5°  | 2504.4 |
| 10°   | 2448.9 |
| 12.5° | 2395.6 |
| 15°   | 2353.4 |
| 17.5° | 2315.6 |
| 20°   | 2268.8 |
| 22.5° | 2217.7 |
| 25°   | 2155.5 |
| 27.5° | 2071.1 |
| 30°   | 1951.1 |
| 32.5° | 1780.1 |
| 35°   | 1533.3 |
| 37.5° | 1177.8 |
| 40°   | 844.4  |
| 42.5° | 633.4  |
| 45°   | 515.6  |
| 47.5° | 437.8  |
| 50°   | 368.9  |
| 52.5° | 302.2  |
| 55°   | 242.2  |
| 57.5° | 191.1  |
| 60°   | 146.7  |
| 62.5° | 111.1  |
| 65°   | 75.5   |
| 67.5° | 44.5   |
| 70°   | 26.6   |
| 72.5° | 15.6   |
| 75°   | 8.9    |
| 77.5° | 6.7    |
| 80°   | 4.4    |
| 82.5° | 2.3    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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