

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: P592732

Luminaire Tested: **HC430D010-HM43040850-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592732  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC430D010-HM43040850-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3288.0 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

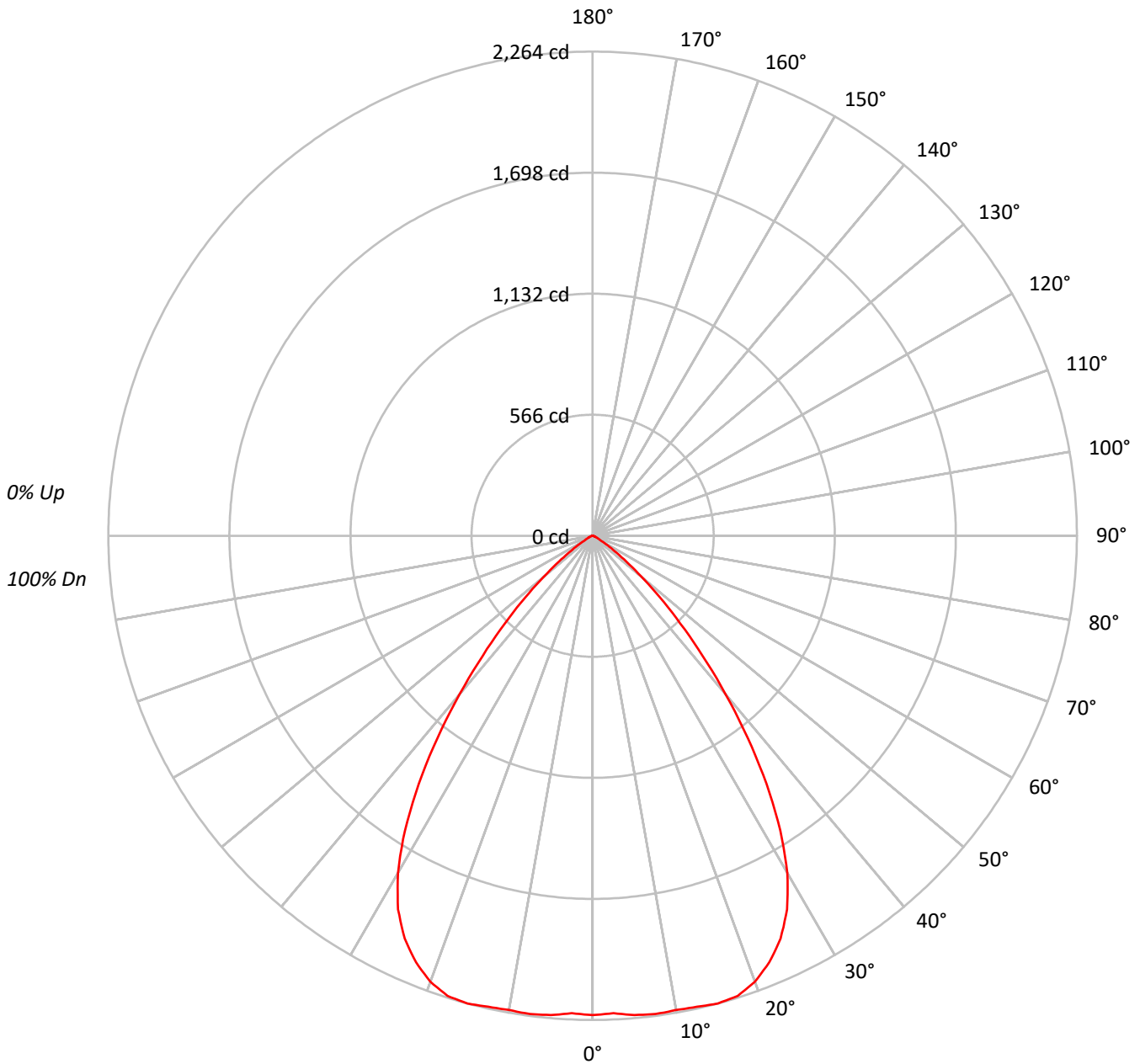
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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 | 100 | 100 |
| 1   | 113 | 110 | 107 | 104 | 110 | 108 | 105 | 103 | 103 | 101 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  | 92  | 92  | 92  |
| 2   | 106 | 101 | 96  | 92  | 104 | 99  | 95  | 91  | 96  | 92  | 89  | 93  | 90  | 87  | 90  | 88  | 86  | 84  | 84  | 84  | 84  |
| 3   | 100 | 93  | 87  | 82  | 98  | 91  | 86  | 82  | 88  | 84  | 80  | 86  | 82  | 79  | 84  | 81  | 78  | 76  | 76  | 76  | 76  |
| 4   | 94  | 85  | 79  | 74  | 92  | 84  | 78  | 74  | 82  | 77  | 73  | 80  | 75  | 72  | 78  | 74  | 71  | 69  | 69  | 69  | 69  |
| 5   | 88  | 79  | 72  | 67  | 86  | 78  | 72  | 67  | 76  | 70  | 66  | 74  | 69  | 66  | 72  | 68  | 65  | 63  | 63  | 63  | 63  |
| 6   | 83  | 73  | 66  | 61  | 81  | 72  | 66  | 61  | 70  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 58  | 58  | 58  | 58  |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 60  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 53  | 53  | 53  | 53  |
| 8   | 74  | 63  | 56  | 51  | 72  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 49  | 49  | 49  | 49  |
| 9   | 69  | 59  | 52  | 47  | 68  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 45  | 45  | 45  | 45  |
| 10  | 66  | 55  | 48  | 44  | 65  | 54  | 48  | 44  | 53  | 48  | 44  | 53  | 47  | 44  | 52  | 47  | 43  | 42  | 42  | 42  | 42  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 276442 |
| 5°  | 278526 |
| 10° | 281997 |
| 15° | 289093 |
| 20° | 291217 |
| 25° | 282877 |
| 30° | 259346 |
| 35° | 213398 |
| 40° | 155558 |
| 45° | 100982 |
| 50° | 56934  |
| 55° | 27031  |
| 60° | 10657  |
| 65° | 6625   |
| 70° | 4472   |
| 75° | 2955   |
| 80° | 1421   |
| 85° | 2830   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 214.8  | 6.5       |
| 10°-20°   | 638.3  | 19.4      |
| 20°-30°   | 946.6  | 28.8      |
| 30°-40°   | 874.3  | 26.6      |
| 40°-50°   | 456.6  | 13.9      |
| 50°-60°   | 125.1  | 3.8       |
| 60°-70°   | 24.1   | 0.7       |
| 70°-80°   | 6.8    | 0.2       |
| 80°-90°   | 1.4    | 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°    | 1799.7 | 54.7      |
| 0°-40°    | 2674.0 | 81.3      |
| 0°-60°    | 3255.7 | 99.0      |
| 0°-90°    | 3288.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3288.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2241 |      |
| 5°  | 2250 | 215  |
| 15° | 2264 | 638  |
| 25° | 2078 | 947  |
| 35° | 1417 | 874  |
| 45° | 579  | 457  |
| 55° | 126  | 125  |
| 65° | 23   | 24   |
| 75° | 6    | 7    |
| 85° | 2    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2241.2 |
| 2.5°  | 2235.0 |
| 5°    | 2249.5 |
| 7.5°  | 2255.7 |
| 10°   | 2251.5 |
| 12.5° | 2255.7 |
| 15°   | 2263.9 |
| 17.5° | 2255.7 |
| 20°   | 2218.6 |
| 22.5° | 2158.8 |
| 25°   | 2078.5 |
| 27.5° | 1969.3 |
| 30°   | 1820.9 |
| 32.5° | 1633.6 |
| 35°   | 1417.2 |
| 37.5° | 1190.6 |
| 40°   | 966.1  |
| 42.5° | 760.2  |
| 45°   | 578.9  |
| 47.5° | 424.4  |
| 50°   | 296.7  |
| 52.5° | 197.7  |
| 55°   | 125.7  |
| 57.5° | 74.1   |
| 60°   | 43.2   |
| 62.5° | 30.9   |
| 65°   | 22.7   |
| 67.5° | 16.5   |
| 70°   | 12.4   |
| 72.5° | 8.2    |
| 75°   | 6.2    |
| 77.5° | 4.2    |
| 80°   | 2.0    |
| 82.5° | 2.0    |
| 85°   | 2.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)