

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: P583518

Luminaire Tested: **HC805D010-HM80520930-81WDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583518  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC805D010-HM80520930-81WDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 716.6 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

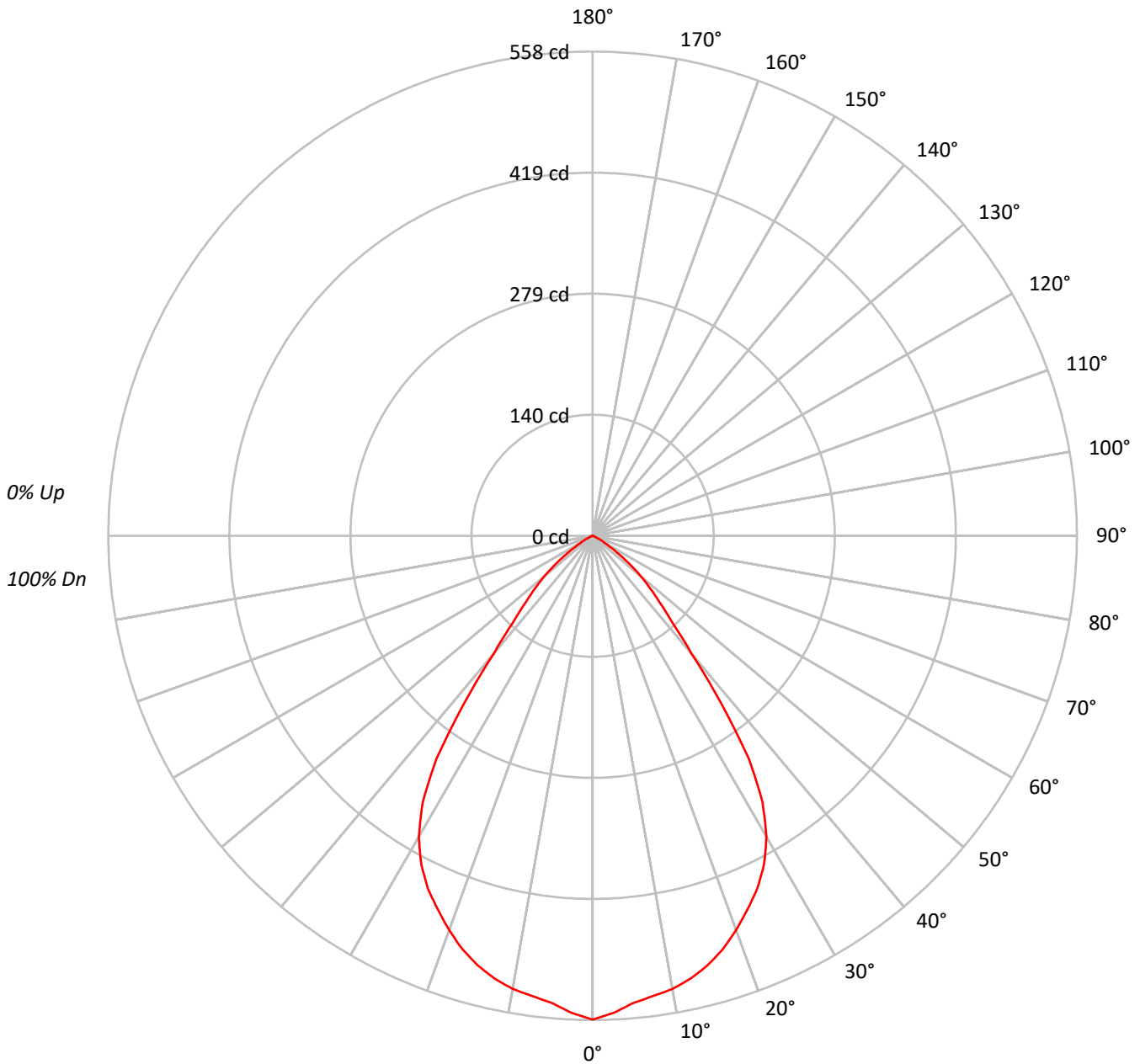
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  | 92  | 92  | 92  |
| 2   | 106 | 101 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 92  | 90  | 93  | 90  | 88  | 90  | 88  | 86  | 84  | 84  | 84  | 84  |
| 3   | 100 | 93  | 87  | 83  | 98  | 91  | 86  | 82  | 89  | 84  | 81  | 86  | 83  | 79  | 84  | 81  | 78  | 77  | 77  | 77  | 77  |
| 4   | 94  | 86  | 79  | 75  | 92  | 84  | 79  | 74  | 82  | 77  | 73  | 80  | 76  | 72  | 78  | 75  | 71  | 70  | 70  | 70  | 70  |
| 5   | 88  | 79  | 72  | 68  | 87  | 78  | 72  | 67  | 76  | 71  | 67  | 74  | 70  | 66  | 73  | 69  | 65  | 64  | 64  | 64  | 64  |
| 6   | 83  | 73  | 66  | 62  | 82  | 72  | 66  | 61  | 71  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 60  | 59  | 59  | 59  | 59  |
| 7   | 78  | 68  | 61  | 57  | 77  | 67  | 61  | 56  | 66  | 60  | 56  | 65  | 60  | 56  | 63  | 59  | 55  | 54  | 54  | 54  | 54  |
| 8   | 74  | 63  | 57  | 52  | 73  | 63  | 56  | 52  | 62  | 56  | 52  | 60  | 55  | 51  | 59  | 55  | 51  | 50  | 50  | 50  | 50  |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 52  | 48  | 58  | 52  | 48  | 57  | 51  | 48  | 56  | 51  | 47  | 46  | 46  | 46  | 46  |
| 10  | 66  | 55  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 48  | 44  | 53  | 48  | 44  | 52  | 48  | 44  | 43  | 43  | 43  | 43  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 17194 |
| 5°  | 16728 |
| 10° | 16605 |
| 15° | 16355 |
| 20° | 15860 |
| 25° | 15270 |
| 30° | 14260 |
| 35° | 11801 |
| 40° | 7125  |
| 45° | 4797  |
| 50° | 3459  |
| 55° | 1968  |
| 60° | 870   |
| 65° | 314   |
| 70° | 117   |
| 75° | 60    |
| 80° | 0     |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.3   | 7.2       |
| 10°-20°   | 144.0  | 20.1      |
| 20°-30°   | 205.4  | 28.7      |
| 30°-40°   | 187.0  | 26.1      |
| 40°-50°   | 88.2   | 12.3      |
| 50°-60°   | 34.7   | 4.8       |
| 60°-70°   | 5.6    | 0.8       |
| 70°-80°   | 0.4    | 0.1       |
| 80°-90°   | 0.0    | 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°    | 400.7  | 55.9      |
| 0°-40°    | 587.7  | 82.0      |
| 0°-60°    | 710.6  | 99.2      |
| 0°-90°    | 716.6  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 716.6  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 558 |      |
| 5°  | 540 | 51   |
| 15° | 512 | 144  |
| 25° | 449 | 205  |
| 35° | 314 | 187  |
| 45° | 110 | 88   |
| 55° | 37  | 35   |
| 65° | 4   | 6    |
| 75° | 0   | 0    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 557.6 |
| 2.5°  | 550.3 |
| 5°    | 540.4 |
| 7.5°  | 534.9 |
| 10°   | 530.3 |
| 12.5° | 522.6 |
| 15°   | 512.3 |
| 17.5° | 499.5 |
| 20°   | 483.3 |
| 22.5° | 466.2 |
| 25°   | 448.8 |
| 27.5° | 427.4 |
| 30°   | 400.5 |
| 32.5° | 364.2 |
| 35°   | 313.5 |
| 37.5° | 242.3 |
| 40°   | 177.0 |
| 42.5° | 136.1 |
| 45°   | 110.0 |
| 47.5° | 90.5  |
| 50°   | 72.1  |
| 52.5° | 54.2  |
| 55°   | 36.6  |
| 57.5° | 23.0  |
| 60°   | 14.1  |
| 62.5° | 8.5   |
| 65°   | 4.3   |
| 67.5° | 2.2   |
| 70°   | 1.3   |
| 72.5° | 0.5   |
| 75°   | 0.5   |
| 77.5° | 0.0   |
| 80°   | 0.0   |
| 82.5° | 0.0   |
| 85°   | 0.0   |
| 87.5° | 0.0   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)