

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: P583673

Luminaire Tested: **HC807D010-HM80520935-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC807D010-HM80520935-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 912.9 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

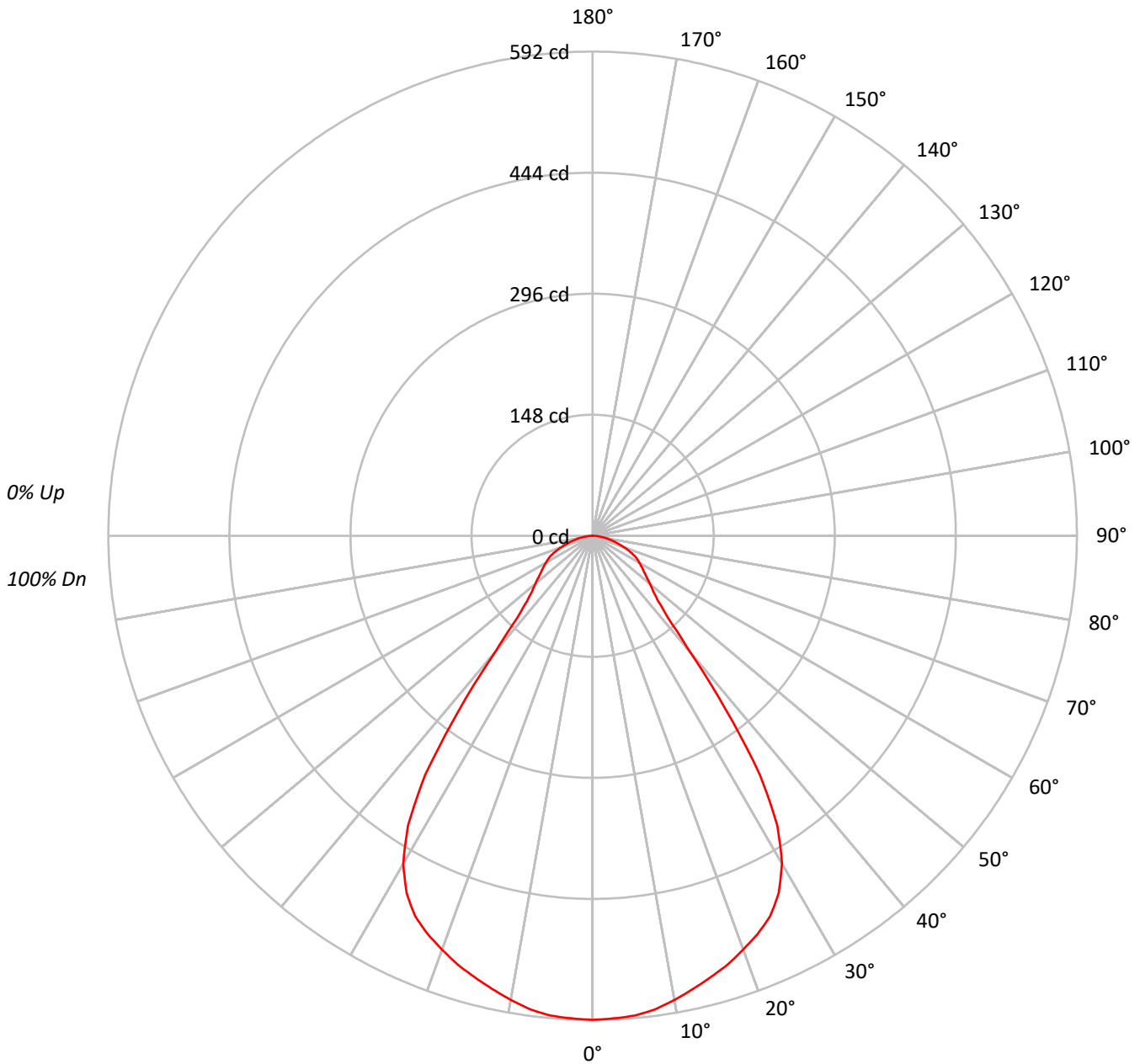
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P583673

CATALOG NUMBER: HC807D010-HM80520935-81WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P583673

CATALOG NUMBER: HC807D010-HM80520935-81WDW

**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 |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |    |    | 89  |
| 2   | 104 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 82  | 86  | 83  | 81  | 79  |    |    | 79  |
| 3   | 97  | 88  | 82  | 76  | 94  | 87  | 81  | 76  | 84  | 79  | 75  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |    |    | 70  |
| 4   | 90  | 80  | 73  | 68  | 88  | 79  | 73  | 67  | 77  | 71  | 67  | 75  | 70  | 66  | 73  | 68  | 65  | 63  |    |    | 63  |
| 5   | 84  | 74  | 66  | 61  | 82  | 73  | 66  | 61  | 71  | 65  | 60  | 69  | 64  | 59  | 67  | 63  | 59  | 57  |    |    | 57  |
| 6   | 79  | 68  | 61  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 55  | 64  | 58  | 54  | 62  | 58  | 54  | 52  |    |    | 52  |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |    |    | 48  |
| 8   | 70  | 58  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 44  |    |    | 44  |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    | 40  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |    |    | 37  |

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

|     | 0°    |
|-----|-------|
| 0°  | 18252 |
| 5°  | 18229 |
| 10° | 18045 |
| 15° | 17830 |
| 20° | 17664 |
| 25° | 17468 |
| 30° | 16482 |
| 35° | 13424 |
| 40° | 7411  |
| 45° | 4950  |
| 50° | 4390  |
| 55° | 4118  |
| 60° | 4070  |
| 65° | 4028  |
| 70° | 3642  |
| 75° | 3265  |
| 80° | 2841  |
| 85° | 2547  |



TEST NUMBER: P583673

CATALOG NUMBER: HC807D010-HM80520935-81WDW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.8   | 6.1       |
| 10°-20°   | 157.7  | 17.3      |
| 20°-30°   | 234.3  | 25.7      |
| 30°-40°   | 211.1  | 23.1      |
| 40°-50°   | 93.6   | 10.2      |
| 50°-60°   | 69.3   | 7.6       |
| 60°-70°   | 53.9   | 5.9       |
| 70°-80°   | 29.2   | 3.2       |
| 80°-90°   | 8.0    | 0.9       |
| 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°    | 447.9  | 49.1      |
| 0°-40°    | 658.9  | 72.2      |
| 0°-60°    | 821.8  | 90.0      |
| 0°-90°    | 912.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 912.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 592 |      |
| 5°  | 589 | 56   |
| 15° | 558 | 158  |
| 25° | 513 | 234  |
| 35° | 357 | 211  |
| 45° | 114 | 94   |
| 55° | 77  | 69   |
| 65° | 55  | 54   |
| 75° | 27  | 29   |
| 85° | 7   | 8    |
| 90° | 0   |      |



TEST NUMBER: P583673

CATALOG NUMBER: HC807D010-HM80520935-81WDW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 591.9 |
| 2.5°  | 590.7 |
| 5°    | 588.9 |
| 7.5°  | 584.1 |
| 10°   | 576.3 |
| 12.5° | 567.5 |
| 15°   | 558.5 |
| 17.5° | 549.7 |
| 20°   | 538.3 |
| 22.5° | 527.1 |
| 25°   | 513.4 |
| 27.5° | 492.6 |
| 30°   | 462.9 |
| 32.5° | 420.2 |
| 35°   | 356.6 |
| 37.5° | 266.2 |
| 40°   | 184.1 |
| 42.5° | 136.1 |
| 45°   | 113.5 |
| 47.5° | 100.4 |
| 50°   | 91.5  |
| 52.5° | 83.2  |
| 55°   | 76.6  |
| 57.5° | 71.3  |
| 60°   | 66.0  |
| 62.5° | 61.2  |
| 65°   | 55.2  |
| 67.5° | 48.2  |
| 70°   | 40.4  |
| 72.5° | 33.8  |
| 75°   | 27.4  |
| 77.5° | 21.4  |
| 80°   | 16.0  |
| 82.5° | 11.2  |
| 85°   | 7.2   |
| 87.5° | 3.0   |
| 90°   | 0.0   |



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)