

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: P582194

Luminaire Tested: **HC630D010-HM63040840-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC630D010-HM63040840-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3767.0 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

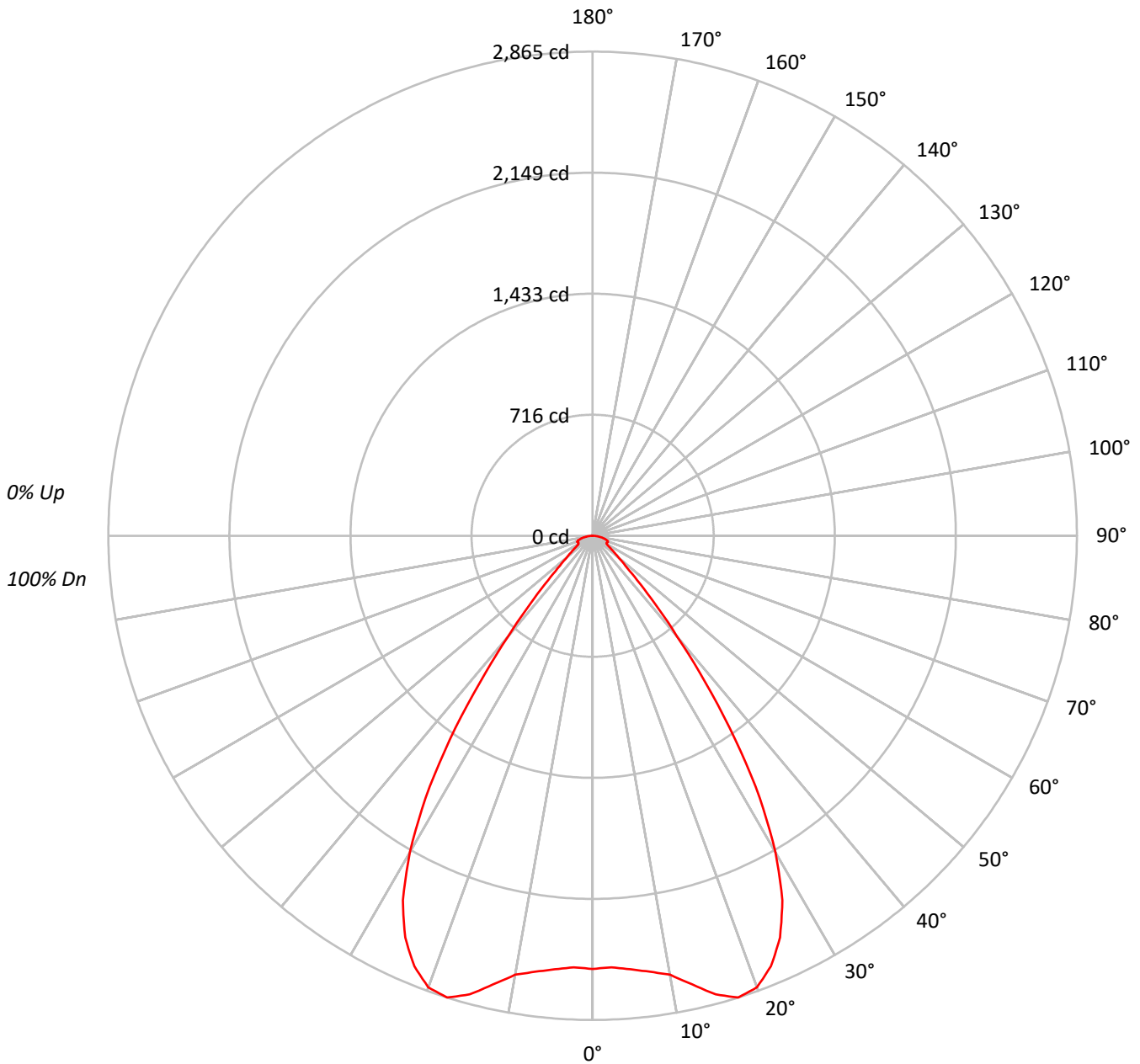
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  | 91  |    |    |   |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |   |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |    |   |
| 4   | 93  | 85  | 78  | 73  | 91  | 83  | 78  | 73  | 81  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 70  | 69  |    |    |   |
| 5   | 88  | 78  | 72  | 67  | 86  | 77  | 71  | 66  | 75  | 70  | 66  | 74  | 69  | 65  | 72  | 68  | 65  | 63  |    |    |   |
| 6   | 83  | 73  | 66  | 61  | 81  | 72  | 66  | 61  | 70  | 65  | 60  | 69  | 64  | 60  | 67  | 63  | 60  | 58  |    |    |   |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 63  | 59  | 55  | 54  |    |    |   |
| 8   | 74  | 63  | 57  | 52  | 73  | 63  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 51  | 59  | 55  | 51  | 50  |    |    |   |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 52  | 48  | 58  | 52  | 48  | 57  | 51  | 48  | 56  | 51  | 48  | 46  |    |    |   |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 48  | 45  | 53  | 48  | 44  | 53  | 48  | 44  | 43  |    |    |   |

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

|     | 0°     |
|-----|--------|
| 0°  | 140493 |
| 5°  | 141690 |
| 10° | 146796 |
| 15° | 159450 |
| 20° | 165856 |
| 25° | 158640 |
| 30° | 136907 |
| 35° | 98584  |
| 40° | 55540  |
| 45° | 28778  |
| 50° | 17159  |
| 55° | 12368  |
| 60° | 10504  |
| 65° | 12128  |
| 70° | 15355  |
| 75° | 16246  |
| 80° | 15880  |
| 85° | 15033  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 247.8  | 6.6       |
| 10°-20°   | 792.4  | 21.0      |
| 20°-30°   | 1184.4 | 31.4      |
| 30°-40°   | 905.4  | 24.0      |
| 40°-50°   | 316.2  | 8.4       |
| 50°-60°   | 120.5  | 3.2       |
| 60°-70°   | 94.6   | 2.5       |
| 70°-80°   | 80.0   | 2.1       |
| 80°-90°   | 25.7   | 0.7       |
| 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°    | 2224.6 | 59.1      |
| 0°-40°    | 3130.0 | 83.1      |
| 0°-60°    | 3566.7 | 94.7      |
| 0°-90°    | 3767.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3767.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2563 |      |
| 5°  | 2575 | 248  |
| 15° | 2810 | 792  |
| 25° | 2623 | 1184 |
| 35° | 1473 | 905  |
| 45° | 371  | 316  |
| 55° | 129  | 121  |
| 65° | 94   | 95   |
| 75° | 77   | 80   |
| 85° | 24   | 26   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2562.8 |
| 2.5°  | 2555.6 |
| 5°    | 2574.8 |
| 7.5°  | 2601.2 |
| 10°   | 2637.1 |
| 12.5° | 2718.5 |
| 15°   | 2809.5 |
| 17.5° | 2864.7 |
| 20°   | 2843.0 |
| 22.5° | 2756.8 |
| 25°   | 2622.7 |
| 27.5° | 2431.0 |
| 30°   | 2162.8 |
| 32.5° | 1841.9 |
| 35°   | 1473.1 |
| 37.5° | 1092.2 |
| 40°   | 776.1  |
| 42.5° | 543.7  |
| 45°   | 371.2  |
| 47.5° | 261.1  |
| 50°   | 201.2  |
| 52.5° | 158.1  |
| 55°   | 129.4  |
| 57.5° | 105.3  |
| 60°   | 95.8   |
| 62.5° | 93.5   |
| 65°   | 93.5   |
| 67.5° | 98.2   |
| 70°   | 95.8   |
| 72.5° | 88.6   |
| 75°   | 76.7   |
| 77.5° | 64.7   |
| 80°   | 50.3   |
| 82.5° | 35.9   |
| 85°   | 23.9   |
| 87.5° | 9.6    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)