

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: P593261

Luminaire Tested: **HC635D010-HM63040950-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC635D010-HM63040950-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3513.3 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

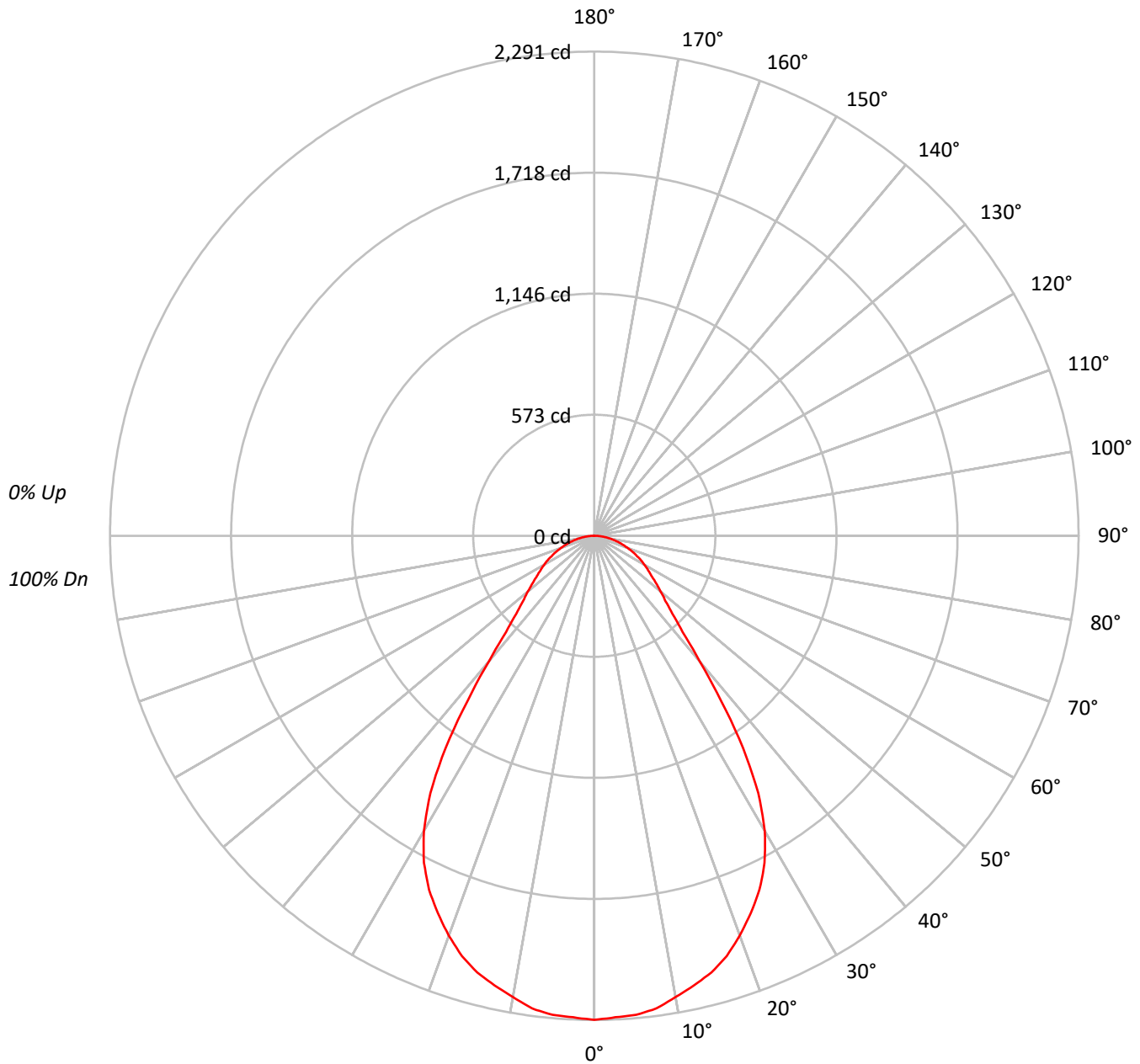
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 90  | 85  | 91  | 87  | 83  | 88  | 85  | 82  | 85  | 82  | 80  | 78  |    |
| 3   | 96  | 87  | 81  | 75  | 94  | 86  | 80  | 75  | 83  | 78  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  |    |
| 4   | 89  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 65  | 74  | 69  | 65  | 72  | 67  | 64  | 62  |    |
| 5   | 84  | 73  | 65  | 60  | 82  | 72  | 65  | 59  | 70  | 64  | 59  | 68  | 63  | 58  | 66  | 62  | 58  | 56  |    |
| 6   | 78  | 67  | 59  | 54  | 77  | 66  | 59  | 54  | 64  | 58  | 53  | 63  | 57  | 53  | 61  | 56  | 53  | 51  |    |
| 7   | 73  | 62  | 54  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 49  | 58  | 53  | 48  | 57  | 52  | 48  | 46  |    |
| 8   | 69  | 57  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 49  | 45  | 54  | 49  | 44  | 53  | 48  | 44  | 43  |    |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |    |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 125571 |
| 5°  | 125236 |
| 10° | 123361 |
| 15° | 121408 |
| 20° | 117418 |
| 25° | 111835 |
| 30° | 102111 |
| 35° | 82215  |
| 40° | 55411  |
| 45° | 40407  |
| 50° | 34924  |
| 55° | 31540  |
| 60° | 29932  |
| 65° | 28317  |
| 70° | 26655  |
| 75° | 25248  |
| 80° | 23519  |
| 85° | 21889  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 215.4  | 6.1       |
| 10°-20°   | 600.7  | 17.1      |
| 20°-30°   | 844.0  | 24.0      |
| 30°-40°   | 751.3  | 21.4      |
| 40°-50°   | 419.9  | 12.0      |
| 50°-60°   | 299.1  | 8.5       |
| 60°-70°   | 217.6  | 6.2       |
| 70°-80°   | 126.0  | 3.6       |
| 80°-90°   | 39.2   | 1.1       |
| 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°    | 1660.2 | 47.3      |
| 0°-40°    | 2411.5 | 68.6      |
| 0°-60°    | 3130.5 | 89.1      |
| 0°-90°    | 3513.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3513.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2291 |      |
| 5°  | 2276 | 215  |
| 15° | 2139 | 601  |
| 25° | 1849 | 844  |
| 35° | 1228 | 751  |
| 45° | 521  | 420  |
| 55° | 330  | 299  |
| 65° | 218  | 218  |
| 75° | 119  | 126  |
| 85° | 35   | 39   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2290.6 |
| 2.5°  | 2280.7 |
| 5°    | 2275.8 |
| 7.5°  | 2255.9 |
| 10°   | 2216.1 |
| 12.5° | 2178.9 |
| 15°   | 2139.2 |
| 17.5° | 2084.6 |
| 20°   | 2012.7 |
| 22.5° | 1933.3 |
| 25°   | 1848.9 |
| 27.5° | 1744.7 |
| 30°   | 1613.1 |
| 32.5° | 1444.4 |
| 35°   | 1228.5 |
| 37.5° | 985.2  |
| 40°   | 774.3  |
| 42.5° | 617.9  |
| 45°   | 521.2  |
| 47.5° | 456.6  |
| 50°   | 409.5  |
| 52.5° | 367.3  |
| 55°   | 330.0  |
| 57.5° | 300.3  |
| 60°   | 273.0  |
| 62.5° | 248.2  |
| 65°   | 218.3  |
| 67.5° | 193.6  |
| 70°   | 166.3  |
| 72.5° | 141.4  |
| 75°   | 119.2  |
| 77.5° | 96.7   |
| 80°   | 74.5   |
| 82.5° | 54.6   |
| 85°   | 34.8   |
| 87.5° | 17.4   |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)