

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: P593198

Luminaire Tested: **HC630D010-HM63040850-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC630D010-HM63040850-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3393.3 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

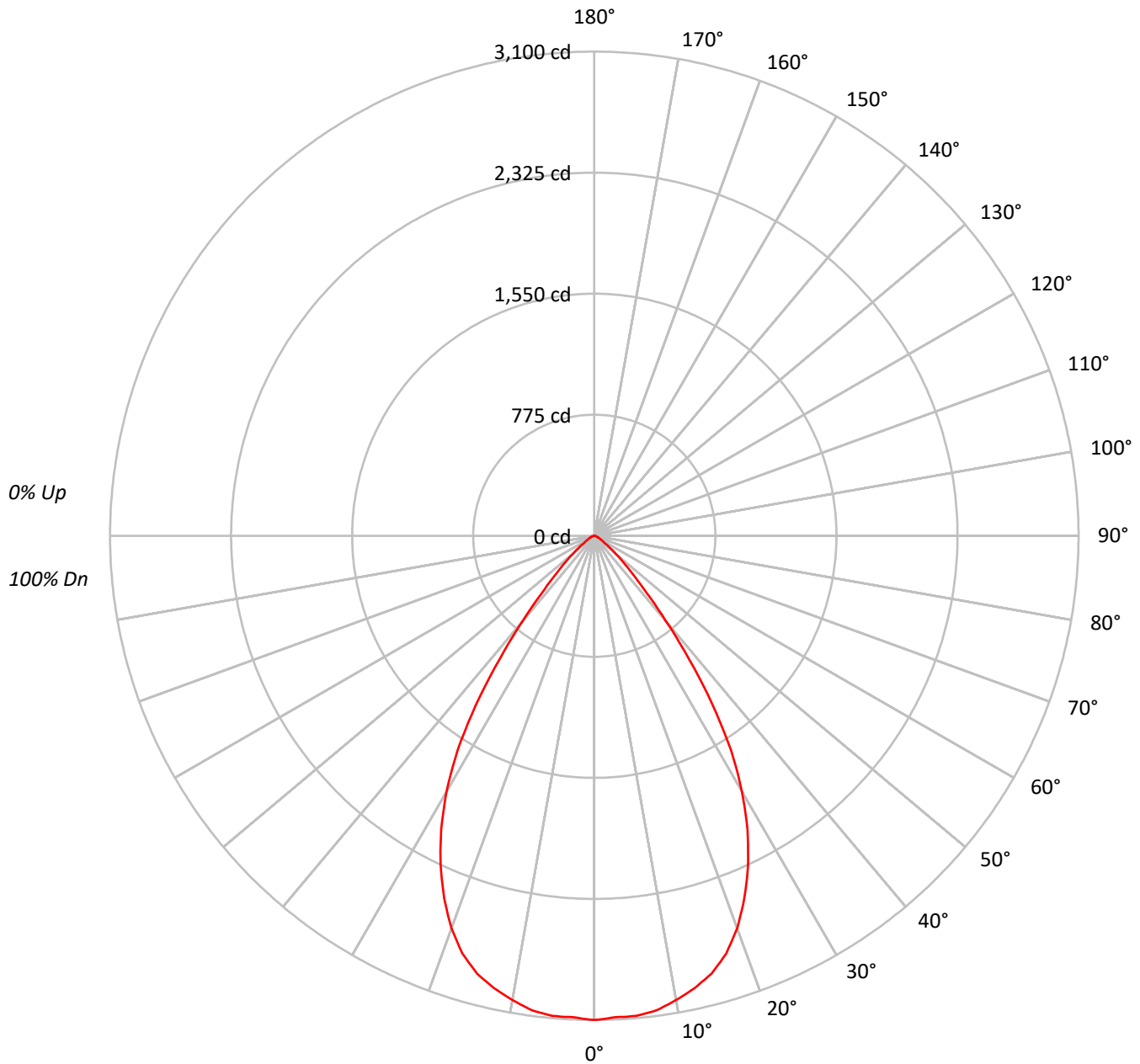
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  |  | 94  | 91  | 89  |  | 91  |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  |  | 88  | 84  | 81  |  | 86  |
| 4   | 96  | 88  | 82  | 77  | 94  | 86  | 81  | 77  | 84  | 79  | 76  |  | 82  | 78  | 75  |  | 80  |
| 5   | 90  | 81  | 75  | 71  | 89  | 80  | 75  | 70  | 79  | 74  | 70  |  | 77  | 73  | 69  |  | 75  |
| 6   | 85  | 76  | 70  | 65  | 84  | 75  | 69  | 65  | 74  | 68  | 64  |  | 72  | 67  | 64  |  | 71  |
| 7   | 81  | 71  | 65  | 60  | 79  | 70  | 64  | 60  | 69  | 64  | 60  |  | 68  | 63  | 59  |  | 67  |
| 8   | 77  | 67  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 59  | 55  |  | 64  | 59  | 55  |  | 63  |
| 9   | 73  | 62  | 56  | 52  | 72  | 62  | 56  | 52  | 61  | 56  | 52  |  | 60  | 55  | 52  |  | 59  |
| 10  | 69  | 59  | 53  | 49  | 68  | 58  | 52  | 48  | 57  | 52  | 48  |  | 57  | 52  | 48  |  | 56  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 169953 |
| 5°  | 169810 |
| 10° | 168044 |
| 15° | 164660 |
| 20° | 155979 |
| 25° | 140857 |
| 30° | 119658 |
| 35° | 88338  |
| 40° | 51096  |
| 45° | 27119  |
| 50° | 15326  |
| 55° | 8009   |
| 60° | 5252   |
| 65° | 3736   |
| 70° | 2693   |
| 75° | 2033   |
| 80° | 1515   |
| 85° | 1510   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 292.4  | 8.6       |
| 10°-20°   | 811.5  | 23.9      |
| 20°-30°   | 1059.1 | 31.2      |
| 30°-40°   | 809.4  | 23.9      |
| 40°-50°   | 293.1  | 8.6       |
| 50°-60°   | 85.1   | 2.5       |
| 60°-70°   | 30.4   | 0.9       |
| 70°-80°   | 10.4   | 0.3       |
| 80°-90°   | 2.0    | 0.1       |
| 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°    | 2163.0 | 63.7      |
| 0°-40°    | 2972.4 | 87.6      |
| 0°-60°    | 3350.6 | 98.7      |
| 0°-90°    | 3393.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3393.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3100 |      |
| 5°  | 3086 | 292  |
| 15° | 2901 | 811  |
| 25° | 2329 | 1059 |
| 35° | 1320 | 809  |
| 45° | 350  | 293  |
| 55° | 84   | 85   |
| 65° | 29   | 30   |
| 75° | 10   | 10   |
| 85° | 2    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3100.2 |
| 2.5°  | 3085.8 |
| 5°    | 3085.8 |
| 7.5°  | 3064.2 |
| 10°   | 3018.8 |
| 12.5° | 2966.0 |
| 15°   | 2901.3 |
| 17.5° | 2805.4 |
| 20°   | 2673.7 |
| 22.5° | 2510.8 |
| 25°   | 2328.7 |
| 27.5° | 2122.7 |
| 30°   | 1890.3 |
| 32.5° | 1629.2 |
| 35°   | 1320.0 |
| 37.5° | 996.6  |
| 40°   | 714.0  |
| 42.5° | 493.6  |
| 45°   | 349.8  |
| 47.5° | 251.6  |
| 50°   | 179.7  |
| 52.5° | 127.0  |
| 55°   | 83.8   |
| 57.5° | 59.9   |
| 60°   | 47.9   |
| 62.5° | 38.3   |
| 65°   | 28.8   |
| 67.5° | 23.9   |
| 70°   | 16.8   |
| 72.5° | 12.0   |
| 75°   | 9.6    |
| 77.5° | 7.1    |
| 80°   | 4.8    |
| 82.5° | 2.4    |
| 85°   | 2.4    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)