

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: P581903

Luminaire Tested: **HC620D010-HM60525840-61WDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC620D010-HM60525840-61WDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2435.4 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

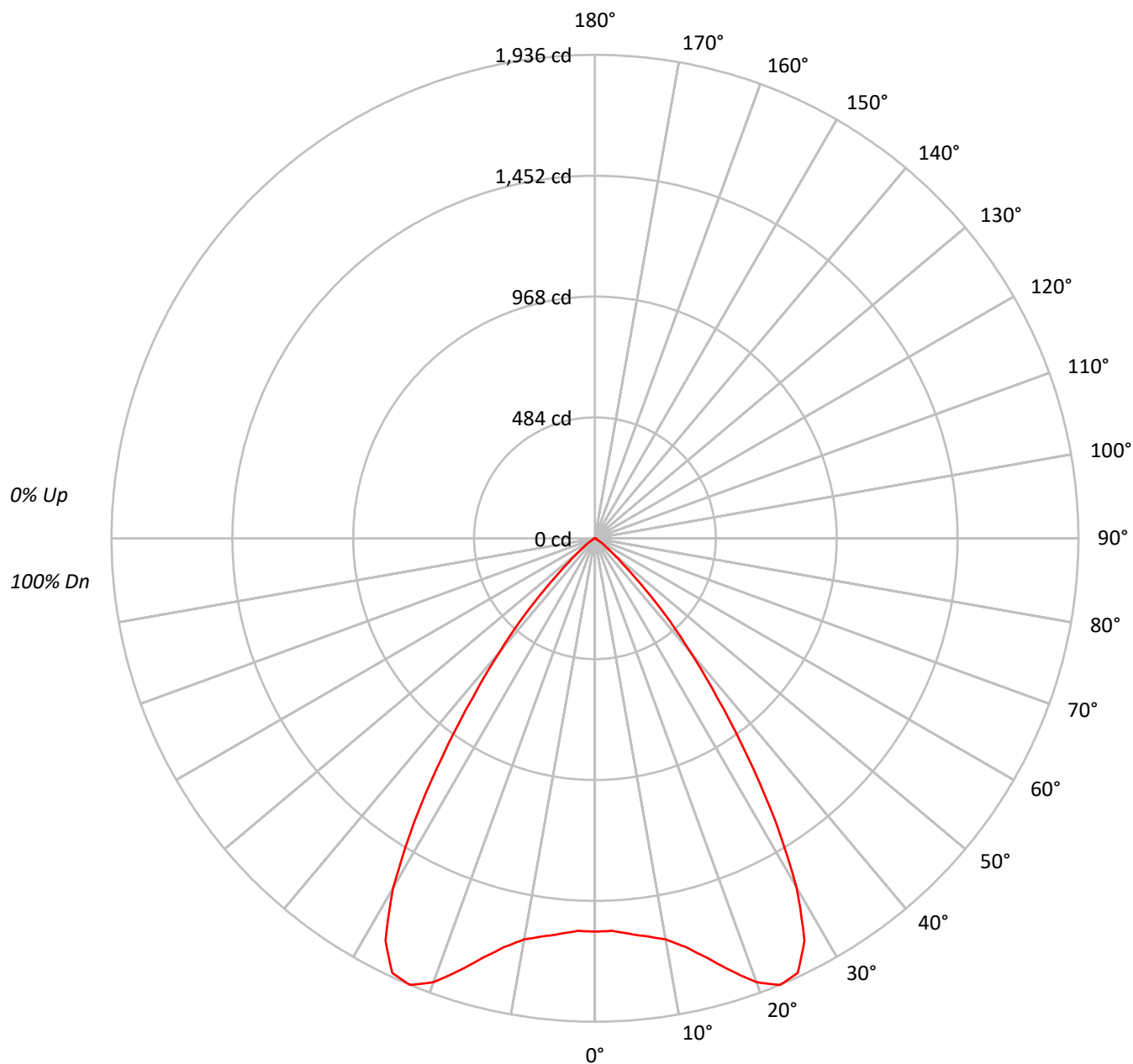
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 113 | 110 | 108 | 105 |  | 111 | 108 | 106 | 103 |  | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  | 96  | 94  |
| 2   | 107 | 102 | 97  | 94  |  | 105 | 100 | 96  | 93  |  | 97  | 94  | 91  |  | 94  | 91  | 89  |  | 91  | 89  | 87  |
| 3   | 101 | 94  | 89  | 85  |  | 99  | 93  | 88  | 84  |  | 90  | 86  | 82  |  | 88  | 84  | 81  |  | 85  | 82  | 80  |
| 4   | 95  | 87  | 81  | 77  |  | 93  | 86  | 80  | 76  |  | 84  | 79  | 75  |  | 82  | 78  | 74  |  | 80  | 76  | 74  |
| 5   | 90  | 81  | 75  | 70  |  | 88  | 80  | 74  | 70  |  | 78  | 73  | 69  |  | 76  | 72  | 68  |  | 75  | 71  | 68  |
| 6   | 85  | 75  | 69  | 64  |  | 83  | 74  | 68  | 64  |  | 73  | 67  | 63  |  | 71  | 67  | 63  |  | 70  | 66  | 62  |
| 7   | 80  | 70  | 63  | 59  |  | 79  | 69  | 63  | 59  |  | 68  | 62  | 58  |  | 67  | 62  | 58  |  | 66  | 61  | 58  |
| 8   | 76  | 65  | 59  | 54  |  | 74  | 65  | 59  | 54  |  | 64  | 58  | 54  |  | 62  | 57  | 54  |  | 61  | 57  | 53  |
| 9   | 71  | 61  | 55  | 50  |  | 70  | 60  | 54  | 50  |  | 60  | 54  | 50  |  | 59  | 53  | 50  |  | 58  | 53  | 50  |
| 10  | 68  | 57  | 51  | 47  |  | 67  | 57  | 51  | 47  |  | 56  | 50  | 46  |  | 55  | 50  | 46  |  | 54  | 50  | 46  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 86336  |
| 5°  | 87503  |
| 10° | 90780  |
| 15° | 98724  |
| 20° | 110376 |
| 25° | 116178 |
| 30° | 102275 |
| 35° | 70938  |
| 40° | 42358  |
| 45° | 20134  |
| 50° | 7599   |
| 55° | 3173   |
| 60° | 998    |
| 65° | 778    |
| 70° | 497    |
| 75° | 318    |
| 80° | 474    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.0  | 6.3       |
| 10°-20°   | 499.5  | 20.5      |
| 20°-30°   | 855.9  | 35.1      |
| 30°-40°   | 664.7  | 27.3      |
| 40°-50°   | 219.7  | 9.0       |
| 50°-60°   | 33.7   | 1.4       |
| 60°-70°   | 6.0    | 0.2       |
| 70°-80°   | 2.2    | 0.1       |
| 80°-90°   | 0.6    | 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°    | 1508.4 | 61.9      |
| 0°-40°    | 2173.1 | 89.2      |
| 0°-60°    | 2426.6 | 99.6      |
| 0°-90°    | 2435.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2435.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1575 |      |
| 5°  | 1590 | 153  |
| 15° | 1740 | 499  |
| 25° | 1921 | 856  |
| 35° | 1060 | 665  |
| 45° | 260  | 220  |
| 55° | 33   | 34   |
| 65° | 6    | 6    |
| 75° | 2    | 2    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1574.9 |
| 2.5°  | 1573.4 |
| 5°    | 1590.1 |
| 7.5°  | 1608.2 |
| 10°   | 1630.8 |
| 12.5° | 1676.0 |
| 15°   | 1739.5 |
| 17.5° | 1816.5 |
| 20°   | 1892.0 |
| 22.5° | 1935.8 |
| 25°   | 1920.7 |
| 27.5° | 1816.5 |
| 30°   | 1615.7 |
| 32.5° | 1345.4 |
| 35°   | 1060.0 |
| 37.5° | 804.8  |
| 40°   | 591.9  |
| 42.5° | 418.3  |
| 45°   | 259.7  |
| 47.5° | 144.9  |
| 50°   | 89.1   |
| 52.5° | 54.4   |
| 55°   | 33.2   |
| 57.5° | 16.7   |
| 60°   | 9.1    |
| 62.5° | 7.6    |
| 65°   | 6.0    |
| 67.5° | 4.5    |
| 70°   | 3.1    |
| 72.5° | 3.1    |
| 75°   | 1.5    |
| 77.5° | 1.5    |
| 80°   | 1.5    |
| 82.5° | 1.5    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)