

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: P582316

Luminaire Tested: **HC635D010-HM63040835-61WDBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC635D010-HM63040835-61WDBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3574.5 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

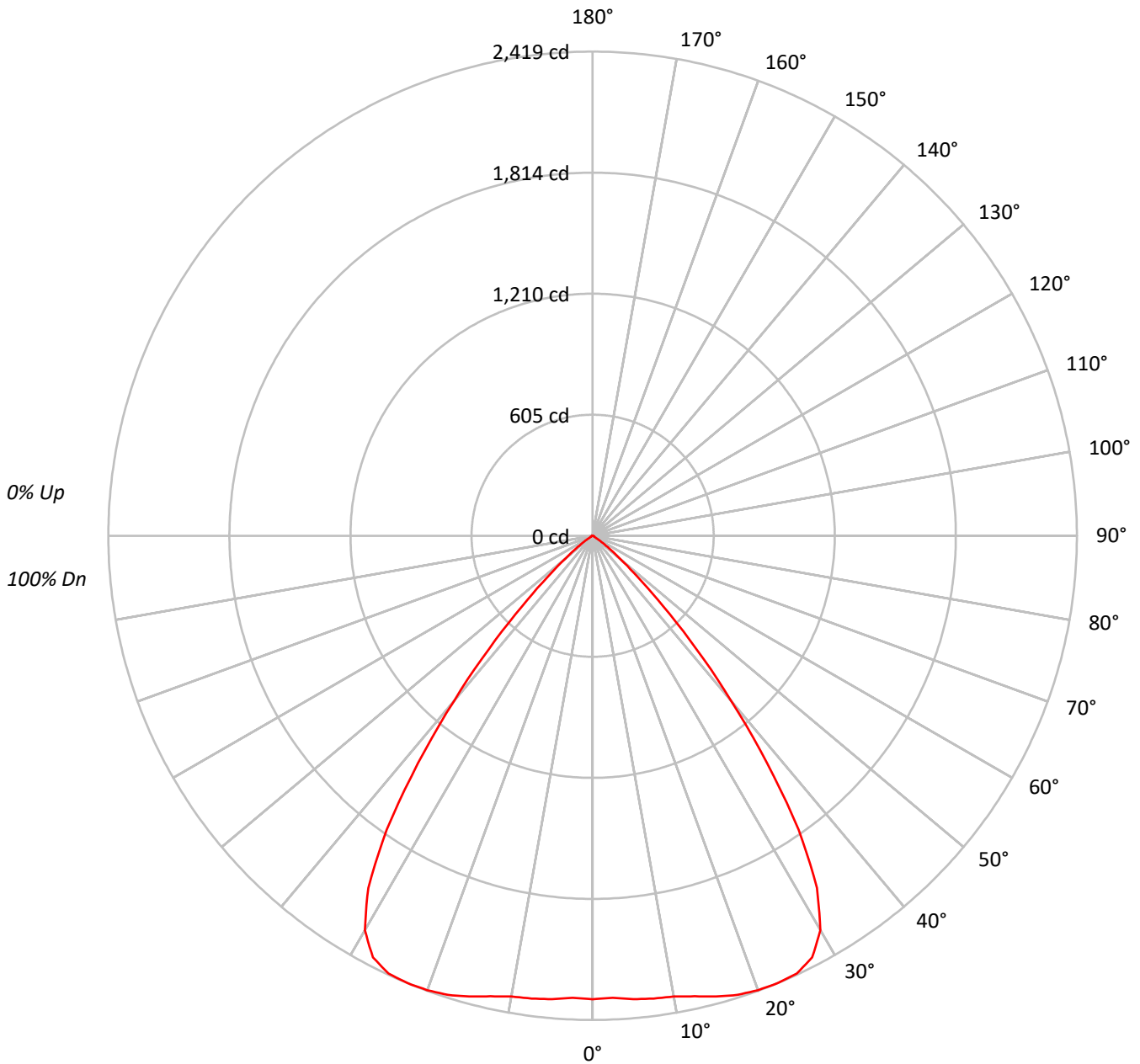
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 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 | 100 | 100 |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 97  | 95  | 94  | 92  | 92  | 92  | 92  |
| 2   | 107 | 101 | 97  | 93  | 104 | 100 | 95  | 92  | 96  | 93  | 90  | 93  | 91  | 88  | 90  | 88  | 86  | 85  | 85  | 85  | 85  |
| 3   | 100 | 93  | 88  | 83  | 98  | 92  | 87  | 83  | 89  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 79  | 77  | 77  | 77  | 77  |
| 4   | 95  | 86  | 80  | 75  | 93  | 85  | 79  | 75  | 83  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 71  | 71  | 71  | 71  |
| 5   | 89  | 80  | 73  | 68  | 87  | 79  | 73  | 68  | 77  | 72  | 67  | 75  | 70  | 67  | 73  | 69  | 66  | 65  | 65  | 65  | 65  |
| 6   | 84  | 74  | 67  | 62  | 82  | 73  | 67  | 62  | 71  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  | 59  | 59  | 59  |
| 7   | 79  | 68  | 62  | 57  | 77  | 68  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 64  | 59  | 56  | 54  | 54  | 54  | 54  |
| 8   | 74  | 64  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  | 50  | 50  | 50  |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 46  | 46  | 46  | 46  |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 48  | 45  | 53  | 48  | 44  | 53  | 48  | 44  | 43  | 43  | 43  | 43  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 126947 |
| 5°  | 127872 |
| 10° | 130108 |
| 15° | 135268 |
| 20° | 140934 |
| 25° | 145962 |
| 30° | 144016 |
| 35° | 119993 |
| 40° | 76951  |
| 45° | 38423  |
| 50° | 15249  |
| 55° | 5171   |
| 60° | 1480   |
| 65° | 1064   |
| 70° | 866    |
| 75° | 1144   |
| 80° | 852    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 222.2  | 6.2       |
| 10°-20°   | 676.0  | 18.9      |
| 20°-30°   | 1103.8 | 30.9      |
| 30°-40°   | 1082.0 | 30.3      |
| 40°-50°   | 414.9  | 11.6      |
| 50°-60°   | 60.9   | 1.7       |
| 60°-70°   | 9.1    | 0.3       |
| 70°-80°   | 4.6    | 0.1       |
| 80°-90°   | 1.1    | 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°    | 2001.9 | 56.0      |
| 0°-40°    | 3084.0 | 86.3      |
| 0°-60°    | 3559.7 | 99.6      |
| 0°-90°    | 3574.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3574.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2316 |      |
| 5°  | 2324 | 222  |
| 15° | 2383 | 676  |
| 25° | 2413 | 1104 |
| 35° | 1793 | 1082 |
| 45° | 496  | 415  |
| 55° | 54   | 61   |
| 65° | 8    | 9    |
| 75° | 5    | 5    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2315.7 |
| 2.5°  | 2310.2 |
| 5°    | 2323.7 |
| 7.5°  | 2331.9 |
| 10°   | 2337.3 |
| 12.5° | 2356.3 |
| 15°   | 2383.4 |
| 17.5° | 2405.1 |
| 20°   | 2415.8 |
| 22.5° | 2418.6 |
| 25°   | 2413.1 |
| 27.5° | 2375.2 |
| 30°   | 2275.1 |
| 32.5° | 2085.4 |
| 35°   | 1793.0 |
| 37.5° | 1432.7 |
| 40°   | 1075.3 |
| 42.5° | 766.5  |
| 45°   | 495.6  |
| 47.5° | 303.3  |
| 50°   | 178.8  |
| 52.5° | 102.9  |
| 55°   | 54.1   |
| 57.5° | 24.4   |
| 60°   | 13.5   |
| 62.5° | 10.9   |
| 65°   | 8.2    |
| 67.5° | 8.2    |
| 70°   | 5.4    |
| 72.5° | 5.4    |
| 75°   | 5.4    |
| 77.5° | 2.7    |
| 80°   | 2.7    |
| 82.5° | 2.7    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)