

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: P593089

Luminaire Tested: **HC615D010-HM60525850-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593089  
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: HC615D010-HM60525850-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1759.1 lumens  
Efficiency: N/A  
Efficacy: 125.7 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

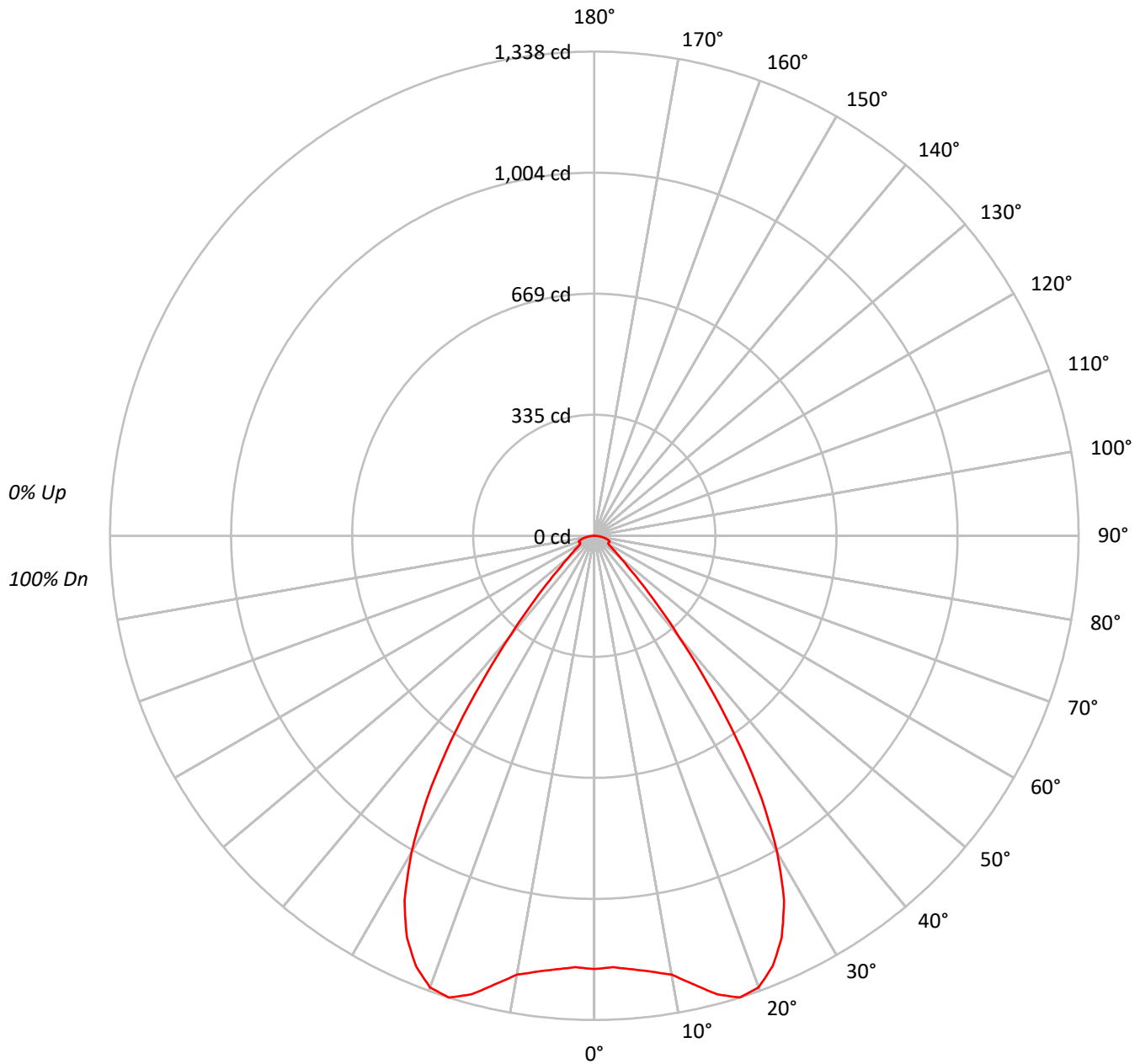
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 65614 |
| 5°  | 66168 |
| 10° | 68553 |
| 15° | 74467 |
| 20° | 77456 |
| 25° | 74085 |
| 30° | 63934 |
| 35° | 46036 |
| 40° | 25934 |
| 45° | 13443 |
| 50° | 8017  |
| 55° | 5773  |
| 60° | 4901  |
| 65° | 5656  |
| 70° | 7165  |
| 75° | 7583  |
| 80° | 7419  |
| 85° | 7045  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 115.7  | 6.6       |
| 10°-20°   | 370.1  | 21.0      |
| 20°-30°   | 553.1  | 31.4      |
| 30°-40°   | 422.8  | 24.0      |
| 40°-50°   | 147.7  | 8.4       |
| 50°-60°   | 56.3   | 3.2       |
| 60°-70°   | 44.1   | 2.5       |
| 70°-80°   | 37.3   | 2.1       |
| 80°-90°   | 12.0   | 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°    | 1038.9 | 59.1      |
| 0°-40°    | 1461.7 | 83.1      |
| 0°-60°    | 1665.6 | 94.7      |
| 0°-90°    | 1759.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1759.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1197 |      |
| 5°  | 1202 | 116  |
| 15° | 1312 | 370  |
| 25° | 1225 | 553  |
| 35° | 688  | 423  |
| 45° | 173  | 148  |
| 55° | 60   | 56   |
| 65° | 44   | 44   |
| 75° | 36   | 37   |
| 85° | 11   | 12   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1196.9 |
| 2.5°  | 1193.5 |
| 5°    | 1202.4 |
| 7.5°  | 1214.7 |
| 10°   | 1231.5 |
| 12.5° | 1269.5 |
| 15°   | 1312.1 |
| 17.5° | 1337.7 |
| 20°   | 1327.7 |
| 22.5° | 1287.4 |
| 25°   | 1224.8 |
| 27.5° | 1135.3 |
| 30°   | 1010.0 |
| 32.5° | 860.1  |
| 35°   | 687.9  |
| 37.5° | 510.1  |
| 40°   | 362.4  |
| 42.5° | 253.9  |
| 45°   | 173.4  |
| 47.5° | 121.9  |
| 50°   | 94.0   |
| 52.5° | 73.8   |
| 55°   | 60.4   |
| 57.5° | 49.3   |
| 60°   | 44.7   |
| 62.5° | 43.6   |
| 65°   | 43.6   |
| 67.5° | 45.9   |
| 70°   | 44.7   |
| 72.5° | 41.4   |
| 75°   | 35.8   |
| 77.5° | 30.2   |
| 80°   | 23.5   |
| 82.5° | 16.8   |
| 85°   | 11.2   |
| 87.5° | 4.4    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)