

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P583290

Luminaire Tested: **HCC6S07D010MB-HM60525827-61WDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S07D010MB-HM60525827-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

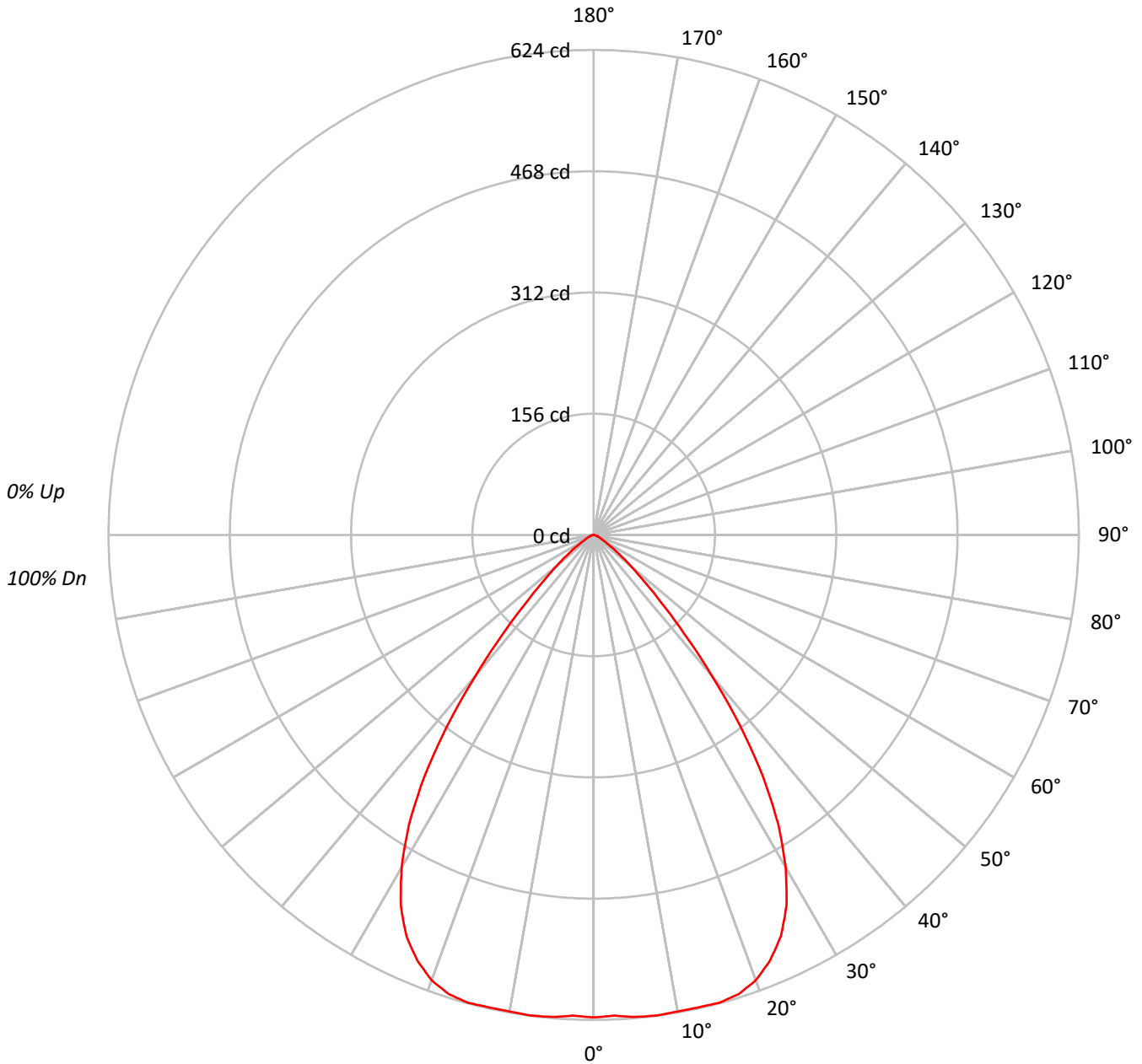
Lumens per Lamp: N/A  
Luminaire Lumens: 869.0 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  | 0   |     |     |
| RW  | 70  | 50  | 30  | 10  | 70  | 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 |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 103 | 101 | 100 |  | 100 | 98  | 97  |  | 96  | 95  | 94  | 92  |
| 2   | 106 | 101 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 92  | 90  |  | 93  | 90  | 88  |  | 90  | 88  | 86  | 84  |
| 3   | 100 | 93  | 87  | 83  | 98  | 91  | 86  | 82  | 89  | 84  | 81  |  | 86  | 83  | 80  |  | 84  | 81  | 78  | 77  |
| 4   | 94  | 86  | 79  | 75  | 92  | 85  | 79  | 74  | 82  | 77  | 73  |  | 80  | 76  | 73  |  | 78  | 75  | 72  | 70  |
| 5   | 89  | 79  | 73  | 68  | 87  | 78  | 72  | 68  | 76  | 71  | 67  |  | 75  | 70  | 66  |  | 73  | 69  | 66  | 64  |
| 6   | 83  | 73  | 67  | 62  | 82  | 73  | 66  | 62  | 71  | 65  | 61  |  | 70  | 65  | 61  |  | 68  | 64  | 60  | 59  |
| 7   | 79  | 68  | 62  | 57  | 77  | 68  | 61  | 57  | 66  | 60  | 56  |  | 65  | 60  | 56  |  | 64  | 59  | 56  | 54  |
| 8   | 74  | 64  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  |  | 61  | 56  | 52  |  | 60  | 55  | 51  | 50  |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 53  | 48  | 58  | 52  | 48  |  | 57  | 52  | 48  |  | 56  | 51  | 48  | 46  |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 49  | 45  |  | 53  | 48  | 45  |  | 53  | 48  | 44  | 43  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 34032 |
| 5°  | 34261 |
| 10° | 34658 |
| 15° | 35369 |
| 20° | 35569 |
| 25° | 34460 |
| 30° | 31264 |
| 35° | 25417 |
| 40° | 16874 |
| 45° | 9389  |
| 50° | 5262  |
| 55° | 2925  |
| 60° | 1612  |
| 65° | 1219  |
| 70° | 850   |
| 75° | 614   |
| 80° | 347   |
| 85° | 377   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.4   | 6.8       |
| 10°-20°   | 175.7  | 20.2      |
| 20°-30°   | 259.0  | 29.8      |
| 30°-40°   | 231.6  | 26.7      |
| 40°-50°   | 100.5  | 11.6      |
| 50°-60°   | 29.5   | 3.4       |
| 60°-70°   | 9.4    | 1.1       |
| 70°-80°   | 3.3    | 0.4       |
| 80°-90°   | 0.5    | 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°    | 494.1  | 56.9      |
| 0°-40°    | 725.8  | 83.5      |
| 0°-60°    | 855.8  | 98.5      |
| 0°-90°    | 869.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 869.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 621 |      |
| 5°  | 623 | 59   |
| 15° | 623 | 176  |
| 25° | 570 | 259  |
| 35° | 380 | 232  |
| 45° | 121 | 100  |
| 55° | 31  | 30   |
| 65° | 9   | 9    |
| 75° | 3   | 3    |
| 85° | 1   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 620.8 |
| 2.5°  | 619.1 |
| 5°    | 622.6 |
| 7.5°  | 623.7 |
| 10°   | 622.6 |
| 12.5° | 622.6 |
| 15°   | 623.2 |
| 17.5° | 619.6 |
| 20°   | 609.7 |
| 22.5° | 592.6 |
| 25°   | 569.7 |
| 27.5° | 537.3 |
| 30°   | 493.9 |
| 32.5° | 442.1 |
| 35°   | 379.8 |
| 37.5° | 308.6 |
| 40°   | 235.8 |
| 42.5° | 172.2 |
| 45°   | 121.1 |
| 47.5° | 86.4  |
| 50°   | 61.7  |
| 52.5° | 44.1  |
| 55°   | 30.6  |
| 57.5° | 20.6  |
| 60°   | 14.7  |
| 62.5° | 11.8  |
| 65°   | 9.4   |
| 67.5° | 7.0   |
| 70°   | 5.3   |
| 72.5° | 4.1   |
| 75°   | 2.9   |
| 77.5° | 2.4   |
| 80°   | 1.1   |
| 82.5° | 0.6   |
| 85°   | 0.6   |
| 87.5° | 0.0   |
| 90°   | 0.0   |

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Scaled Data Report



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— 0°-180°

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