

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: P582750

Luminaire Tested: **HCC6W50D010MW-HM64560835-61WDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582750  
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: HCC6W50D010MW-HM64560835-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

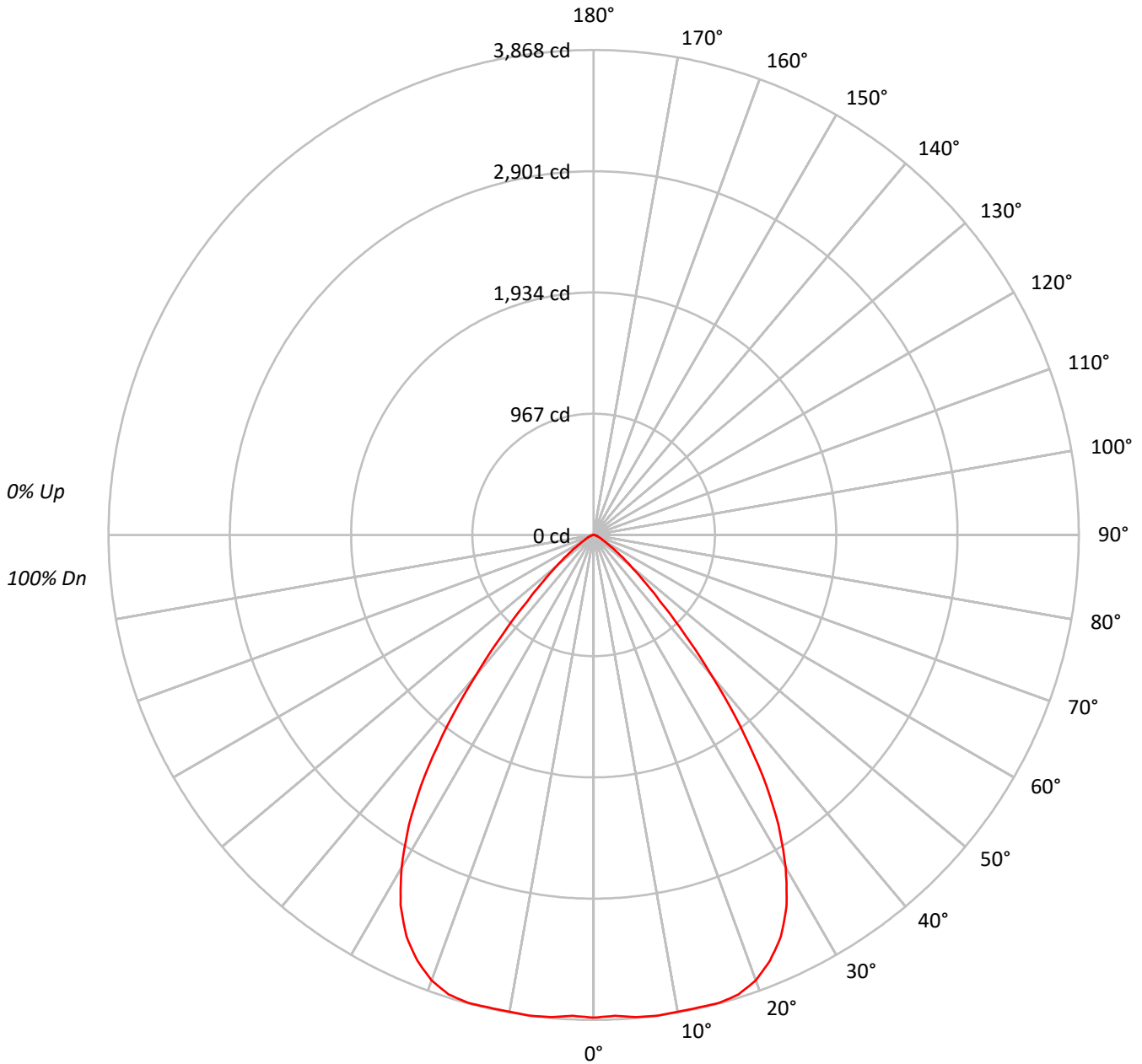
Lumens per Lamp: N/A  
Luminaire Lumens: 5388.9 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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 |  |  |  |  |  |  |  |  | 20 |
| RC  | 80  |     |     |     |     |     |     |     |     | 50  |     |     |     |     |     |     |     |     | 30 |    |    |    |    |    |    |    |    | 10 |     |   |  |  |  |  |  |  | 0  |  |  |  |  |  |  |  |  | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 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 |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 103 | 101 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  |    |    |    |    |    |    |    |    |    |    | 92  |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 2   | 106 | 101 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 92  | 90  | 93  | 90  | 88  | 90  | 88  | 86  | 84  |    |    |    |    |    |    |    |    |    |    | 84  |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 3   | 100 | 93  | 87  | 83  | 98  | 91  | 86  | 82  | 89  | 84  | 81  | 86  | 83  | 80  | 84  | 81  | 78  | 77  |    |    |    |    |    |    |    |    |    |    | 77  |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 4   | 94  | 86  | 79  | 75  | 92  | 85  | 79  | 74  | 82  | 77  | 73  | 80  | 76  | 73  | 78  | 75  | 72  | 70  |    |    |    |    |    |    |    |    |    |    | 70  |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 5   | 89  | 79  | 73  | 68  | 87  | 78  | 72  | 68  | 76  | 71  | 67  | 75  | 70  | 66  | 73  | 69  | 66  | 64  |    |    |    |    |    |    |    |    |    |    | 64  |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 6   | 83  | 73  | 67  | 62  | 82  | 73  | 66  | 62  | 71  | 65  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 59  |    |    |    |    |    |    |    |    |    |    | 59  |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 7   | 79  | 68  | 62  | 57  | 77  | 68  | 61  | 57  | 66  | 60  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |    |    |    |    |    |    |    |    | 54  |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 8   | 74  | 64  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 51  | 50  |    |    |    |    |    |    |    |    |    |    | 50  |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 46  |    |    |    |    |    |    |    |    |    |    | 46  |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 49  | 45  | 53  | 48  | 45  | 53  | 48  | 44  | 43  |    |    |    |    |    |    |    |    |    |    | 43  |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 211047 |
| 5°  | 212458 |
| 10° | 214915 |
| 15° | 219326 |
| 20° | 220554 |
| 25° | 213684 |
| 30° | 193846 |
| 35° | 157617 |
| 40° | 104625 |
| 45° | 58223  |
| 50° | 32647  |
| 55° | 18121  |
| 60° | 9999   |
| 65° | 7562   |
| 70° | 5257   |
| 75° | 3855   |
| 80° | 2305   |
| 85° | 2327   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 368.5  | 6.8       |
| 10°-20°   | 1089.6 | 20.2      |
| 20°-30°   | 1606.0 | 29.8      |
| 30°-40°   | 1436.5 | 26.7      |
| 40°-50°   | 623.2  | 11.6      |
| 50°-60°   | 183.1  | 3.4       |
| 60°-70°   | 58.4   | 1.1       |
| 70°-80°   | 20.6   | 0.4       |
| 80°-90°   | 3.0    | 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°    | 3064.1 | 56.9      |
| 0°-40°    | 4500.6 | 83.5      |
| 0°-60°    | 5306.9 | 98.5      |
| 0°-90°    | 5388.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5388.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3850 |      |
| 5°  | 3861 | 369  |
| 15° | 3864 | 1090 |
| 25° | 3533 | 1606 |
| 35° | 2355 | 1436 |
| 45° | 751  | 623  |
| 55° | 190  | 183  |
| 65° | 58   | 58   |
| 75° | 18   | 21   |
| 85° | 4    | 3    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3849.8 |
| 2.5°  | 3839.0 |
| 5°    | 3860.8 |
| 7.5°  | 3868.1 |
| 10°   | 3860.8 |
| 12.5° | 3860.8 |
| 15°   | 3864.5 |
| 17.5° | 3842.5 |
| 20°   | 3780.6 |
| 22.5° | 3674.8 |
| 25°   | 3532.7 |
| 27.5° | 3332.2 |
| 30°   | 3062.3 |
| 32.5° | 2741.6 |
| 35°   | 2355.2 |
| 37.5° | 1913.9 |
| 40°   | 1462.0 |
| 42.5° | 1068.2 |
| 45°   | 751.0  |
| 47.5° | 535.9  |
| 50°   | 382.8  |
| 52.5° | 273.4  |
| 55°   | 189.6  |
| 57.5° | 127.5  |
| 60°   | 91.2   |
| 62.5° | 72.9   |
| 65°   | 58.3   |
| 67.5° | 43.7   |
| 70°   | 32.8   |
| 72.5° | 25.5   |
| 75°   | 18.2   |
| 77.5° | 14.5   |
| 80°   | 7.3    |
| 82.5° | 3.7    |
| 85°   | 3.7    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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Scaled Data Report



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— 0°-180°

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