

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: P582902

Luminaire Tested: **HCC6S05D010BZ-HM60525840-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582902  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S05D010BZ-HM60525840-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

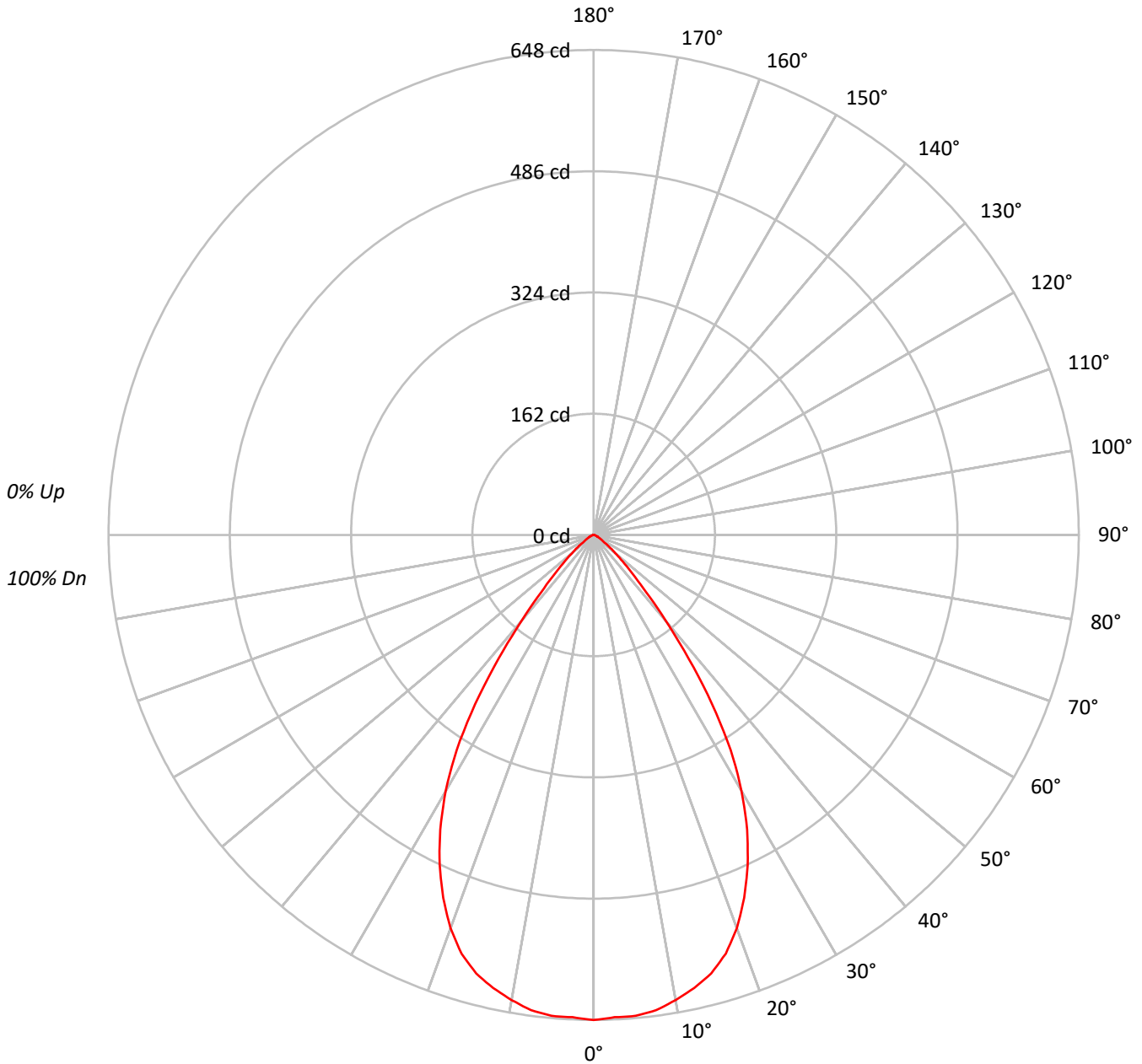
Lumens per Lamp: N/A  
Luminaire Lumens: 709.4 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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  | 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 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 96  | 94  | 93  | 93  | 93  | 93  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  | 94  | 91  | 89  | 91  | 89  | 87  | 85  | 85  | 85  | 85  |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  | 88  | 84  | 81  | 86  | 83  | 80  | 79  | 79  | 79  | 79  |
| 4   | 96  | 88  | 82  | 77  | 94  | 86  | 81  | 77  | 84  | 79  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 72  | 72  | 72  | 72  |
| 5   | 90  | 81  | 75  | 71  | 89  | 80  | 75  | 70  | 79  | 74  | 70  | 77  | 73  | 69  | 75  | 72  | 68  | 67  | 67  | 67  | 67  |
| 6   | 85  | 76  | 70  | 65  | 84  | 75  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 64  | 71  | 67  | 63  | 62  | 62  | 62  | 62  |
| 7   | 81  | 71  | 65  | 60  | 79  | 70  | 64  | 60  | 69  | 64  | 60  | 68  | 63  | 59  | 67  | 62  | 59  | 57  | 57  | 57  | 57  |
| 8   | 77  | 67  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 59  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 53  | 53  | 53  | 53  |
| 9   | 73  | 62  | 56  | 52  | 72  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 59  | 55  | 51  | 50  | 50  | 50  | 50  |
| 10  | 69  | 59  | 53  | 49  | 68  | 58  | 52  | 48  | 57  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 47  | 47  | 47  | 47  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 35534 |
| 5°  | 35500 |
| 10° | 35131 |
| 15° | 34427 |
| 20° | 32611 |
| 25° | 29451 |
| 30° | 25017 |
| 35° | 18464 |
| 40° | 10684 |
| 45° | 5667  |
| 50° | 3198  |
| 55° | 1673  |
| 60° | 1107  |
| 65° | 778   |
| 70° | 561   |
| 75° | 424   |
| 80° | 316   |
| 85° | 314   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 61.1   | 8.6       |
| 10°-20°   | 169.7  | 23.9      |
| 20°-30°   | 221.4  | 31.2      |
| 30°-40°   | 169.2  | 23.9      |
| 40°-50°   | 61.2   | 8.6       |
| 50°-60°   | 17.8   | 2.5       |
| 60°-70°   | 6.4    | 0.9       |
| 70°-80°   | 2.2    | 0.3       |
| 80°-90°   | 0.4    | 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°    | 452.2  | 63.7      |
| 0°-40°    | 621.5  | 87.6      |
| 0°-60°    | 700.5  | 98.7      |
| 0°-90°    | 709.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 709.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 648 |      |
| 5°  | 645 | 61   |
| 15° | 607 | 170  |
| 25° | 487 | 221  |
| 35° | 276 | 169  |
| 45° | 73  | 61   |
| 55° | 18  | 18   |
| 65° | 6   | 6    |
| 75° | 2   | 2    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 648.2 |
| 2.5°  | 645.1 |
| 5°    | 645.1 |
| 7.5°  | 640.6 |
| 10°   | 631.1 |
| 12.5° | 620.1 |
| 15°   | 606.6 |
| 17.5° | 586.6 |
| 20°   | 559.0 |
| 22.5° | 525.0 |
| 25°   | 486.9 |
| 27.5° | 443.8 |
| 30°   | 395.2 |
| 32.5° | 340.6 |
| 35°   | 275.9 |
| 37.5° | 208.4 |
| 40°   | 149.3 |
| 42.5° | 103.2 |
| 45°   | 73.1  |
| 47.5° | 52.5  |
| 50°   | 37.5  |
| 52.5° | 26.6  |
| 55°   | 17.5  |
| 57.5° | 12.5  |
| 60°   | 10.1  |
| 62.5° | 8.0   |
| 65°   | 6.0   |
| 67.5° | 5.0   |
| 70°   | 3.5   |
| 72.5° | 2.5   |
| 75°   | 2.0   |
| 77.5° | 1.5   |
| 80°   | 1.0   |
| 82.5° | 0.5   |
| 85°   | 0.5   |
| 87.5° | 0.0   |
| 90°   | 0.0   |

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Scaled Data Report



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— 0°-180°

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