

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: P582673

Luminaire Tested: **HCC6S45D010MB-HM64560935-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S45D010MB-HM64560935-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

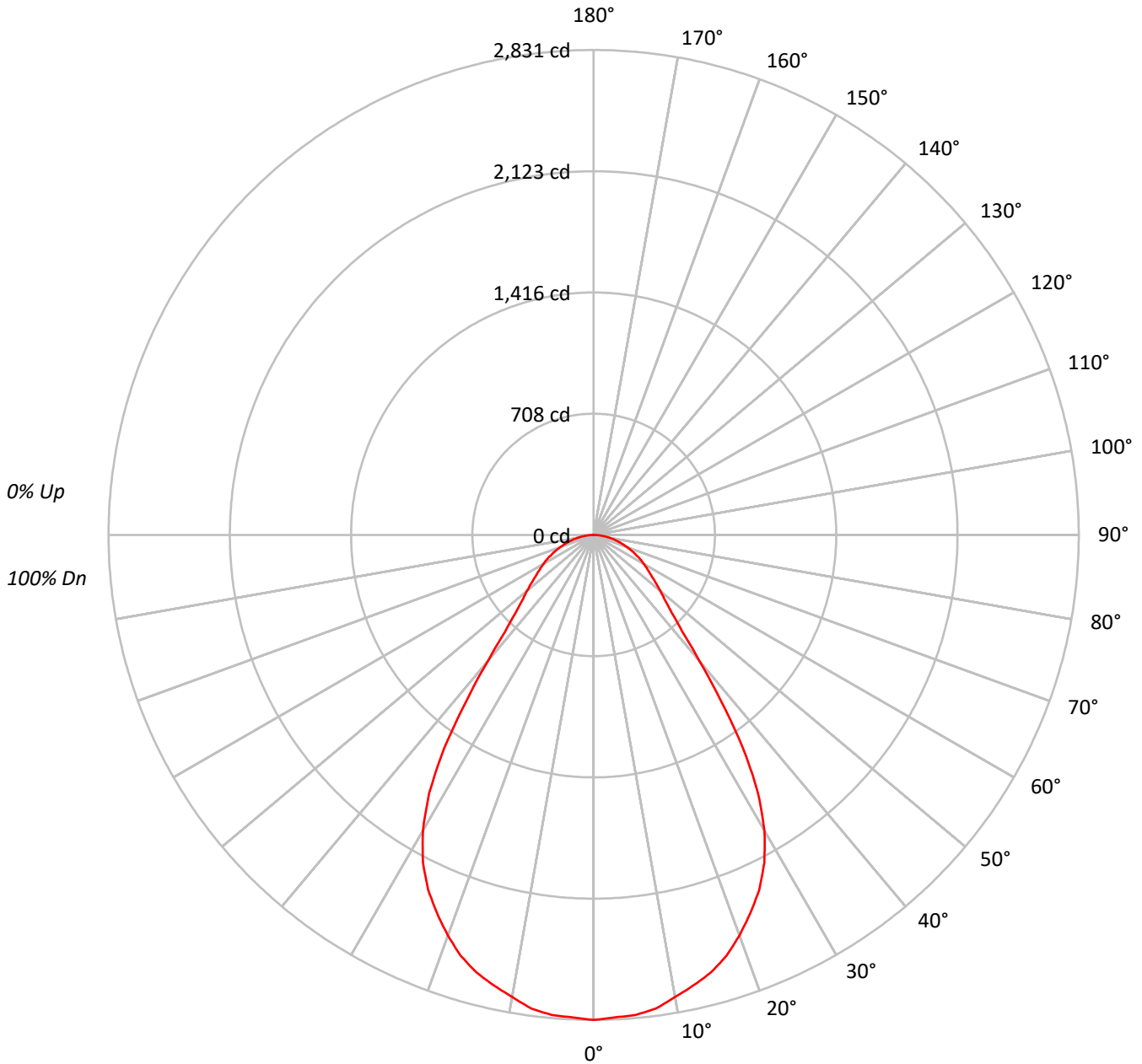
Lumens per Lamp: N/A  
Luminaire Lumens: 4342.3 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  |  | 88  |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 90  | 85  | 91  | 87  | 83  | 88  | 85  | 82  | 85  | 82  | 80  |  | 78  |
| 3   | 96  | 87  | 81  | 75  | 94  | 86  | 80  | 75  | 83  | 78  | 73  | 80  | 76  | 72  | 78  | 74  | 71  |  | 69  |
| 4   | 89  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 65  | 74  | 69  | 65  | 72  | 67  | 64  |  | 62  |
| 5   | 84  | 73  | 65  | 60  | 82  | 72  | 65  | 59  | 70  | 64  | 59  | 68  | 63  | 58  | 66  | 62  | 58  |  | 56  |
| 6   | 78  | 67  | 59  | 54  | 77  | 66  | 59  | 54  | 64  | 58  | 53  | 63  | 57  | 53  | 61  | 56  | 53  |  | 51  |
| 7   | 73  | 62  | 54  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 49  | 58  | 53  | 48  | 57  | 52  | 48  |  | 46  |
| 8   | 69  | 57  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 49  | 45  | 54  | 49  | 44  | 53  | 48  | 44  |  | 43  |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  |  | 39  |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  |  | 36  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 155207 |
| 5°  | 154782 |
| 10° | 152480 |
| 15° | 150063 |
| 20° | 145123 |
| 25° | 138220 |
| 30° | 126203 |
| 35° | 101609 |
| 40° | 68493  |
| 45° | 49935  |
| 50° | 43163  |
| 55° | 38995  |
| 60° | 36993  |
| 65° | 35010  |
| 70° | 32938  |
| 75° | 31178  |
| 80° | 29044  |
| 85° | 26984  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 266.2  | 6.1       |
| 10°-20°   | 742.5  | 17.1      |
| 20°-30°   | 1043.2 | 24.0      |
| 30°-40°   | 928.6  | 21.4      |
| 40°-50°   | 518.9  | 12.0      |
| 50°-60°   | 369.7  | 8.5       |
| 60°-70°   | 269.0  | 6.2       |
| 70°-80°   | 155.7  | 3.6       |
| 80°-90°   | 48.4   | 1.1       |
| 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°    | 2051.9 | 47.3      |
| 0°-40°    | 2980.5 | 68.6      |
| 0°-60°    | 3869.2 | 89.1      |
| 0°-90°    | 4342.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4342.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2831 |      |
| 5°  | 2813 | 266  |
| 15° | 2644 | 743  |
| 25° | 2285 | 1043 |
| 35° | 1518 | 929  |
| 45° | 644  | 519  |
| 55° | 408  | 370  |
| 65° | 270  | 269  |
| 75° | 147  | 156  |
| 85° | 43   | 48   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2831.2 |
| 2.5°  | 2818.8 |
| 5°    | 2812.7 |
| 7.5°  | 2788.2 |
| 10°   | 2739.2 |
| 12.5° | 2693.1 |
| 15°   | 2644.1 |
| 17.5° | 2576.6 |
| 20°   | 2487.6 |
| 22.5° | 2389.5 |
| 25°   | 2285.1 |
| 27.5° | 2156.3 |
| 30°   | 1993.7 |
| 32.5° | 1785.2 |
| 35°   | 1518.3 |
| 37.5° | 1217.7 |
| 40°   | 957.1  |
| 42.5° | 763.7  |
| 45°   | 644.1  |
| 47.5° | 564.4  |
| 50°   | 506.1  |
| 52.5° | 454.0  |
| 55°   | 408.0  |
| 57.5° | 371.1  |
| 60°   | 337.4  |
| 62.5° | 306.7  |
| 65°   | 269.9  |
| 67.5° | 239.3  |
| 70°   | 205.5  |
| 72.5° | 174.9  |
| 75°   | 147.2  |
| 77.5° | 119.6  |
| 80°   | 92.0   |
| 82.5° | 67.4   |
| 85°   | 42.9   |
| 87.5° | 21.5   |
| 90°   | 0.0    |

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— 0°-180°

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