

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: P582402

Luminaire Tested: **HCC6S35D010BZ-HM63040940-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S35D010BZ-HM63040940-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

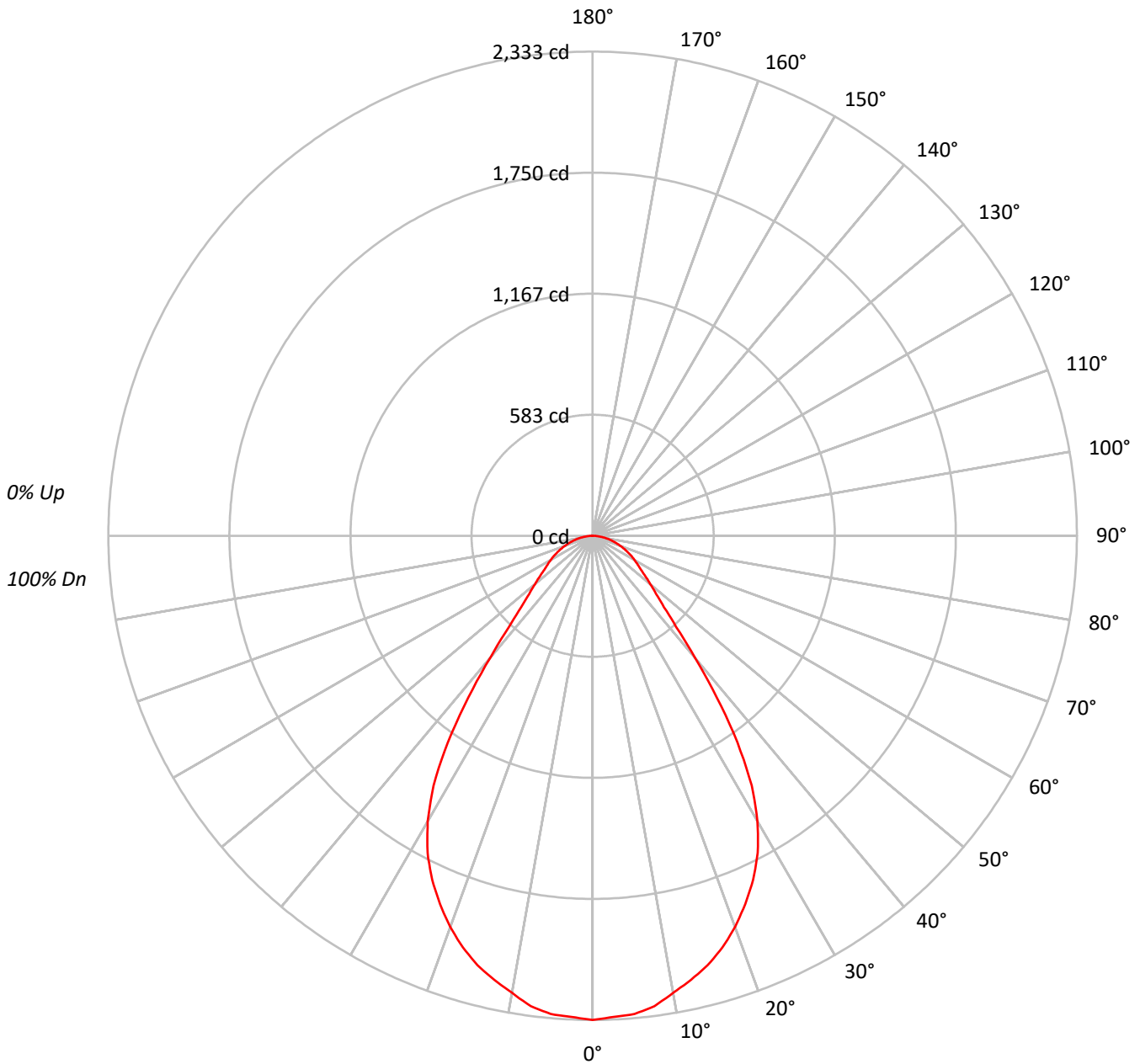
Lumens per Lamp: N/A  
Luminaire Lumens: 3376.8 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 89  | 89  | 89  | 89  |
| 2   | 104 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 83  | 86  | 83  | 81  | 79  | 79  | 79  | 79  |
| 3   | 97  | 88  | 82  | 77  | 94  | 87  | 81  | 76  | 84  | 79  | 75  | 81  | 77  | 73  | 79  | 75  | 72  | 70  | 70  | 70  | 70  |
| 4   | 90  | 81  | 73  | 68  | 88  | 79  | 73  | 68  | 77  | 71  | 67  | 75  | 70  | 66  | 73  | 69  | 65  | 63  | 63  | 63  | 63  |
| 5   | 84  | 74  | 67  | 61  | 83  | 73  | 66  | 61  | 71  | 65  | 60  | 69  | 64  | 60  | 67  | 63  | 59  | 57  | 57  | 57  | 57  |
| 6   | 79  | 68  | 61  | 55  | 77  | 67  | 60  | 55  | 66  | 59  | 55  | 64  | 59  | 54  | 63  | 58  | 54  | 52  | 52  | 52  | 52  |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 55  | 50  | 60  | 54  | 50  | 58  | 53  | 49  | 48  | 48  | 48  | 48  |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 56  | 50  | 46  | 54  | 49  | 46  | 44  | 44  | 44  | 44  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 41  | 41  | 41  | 41  |
| 10  | 62  | 51  | 44  | 40  | 61  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 38  | 38  | 38  | 38  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 127901 |
| 5°  | 127294 |
| 10° | 124486 |
| 15° | 121561 |
| 20° | 116998 |
| 25° | 110650 |
| 30° | 100553 |
| 35° | 81385  |
| 40° | 54889  |
| 45° | 37717  |
| 50° | 30907  |
| 55° | 27048  |
| 60° | 25579  |
| 65° | 24140  |
| 70° | 22664  |
| 75° | 21562  |
| 80° | 19605  |
| 85° | 17171  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 218.4  | 6.5       |
| 10°-20°   | 601.5  | 17.8      |
| 20°-30°   | 835.7  | 24.7      |
| 30°-40°   | 744.0  | 22.0      |
| 40°-50°   | 395.0  | 11.7      |
| 50°-60°   | 258.3  | 7.7       |
| 60°-70°   | 185.1  | 5.5       |
| 70°-80°   | 107.3  | 3.2       |
| 80°-90°   | 31.4   | 0.9       |
| 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°    | 1655.6 | 49.0      |
| 0°-40°    | 2399.6 | 71.1      |
| 0°-60°    | 3053.0 | 90.4      |
| 0°-90°    | 3376.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3376.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2333 |      |
| 5°  | 2313 | 218  |
| 15° | 2142 | 602  |
| 25° | 1829 | 836  |
| 35° | 1216 | 744  |
| 45° | 486  | 395  |
| 55° | 283  | 258  |
| 65° | 186  | 185  |
| 75° | 102  | 107  |
| 85° | 27   | 31   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2333.1 |
| 2.5°  | 2320.7 |
| 5°    | 2313.2 |
| 7.5°  | 2285.9 |
| 10°   | 2236.3 |
| 12.5° | 2191.6 |
| 15°   | 2141.9 |
| 17.5° | 2079.9 |
| 20°   | 2005.5 |
| 22.5° | 1921.1 |
| 25°   | 1829.3 |
| 27.5° | 1722.5 |
| 30°   | 1588.5 |
| 32.5° | 1427.1 |
| 35°   | 1216.1 |
| 37.5° | 982.8  |
| 40°   | 767.0  |
| 42.5° | 595.6  |
| 45°   | 486.5  |
| 47.5° | 414.5  |
| 50°   | 362.4  |
| 52.5° | 320.2  |
| 55°   | 283.0  |
| 57.5° | 255.7  |
| 60°   | 233.3  |
| 62.5° | 211.0  |
| 65°   | 186.1  |
| 67.5° | 163.8  |
| 70°   | 141.4  |
| 72.5° | 121.6  |
| 75°   | 101.8  |
| 77.5° | 81.9   |
| 80°   | 62.1   |
| 82.5° | 44.7   |
| 85°   | 27.3   |
| 87.5° | 12.4   |
| 90°   | 0.0    |

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— 0°-180°

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