

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: P582302

Luminaire Tested: **HCC6W35D010SL-HM63040830-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W35D010SL-HM63040830-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

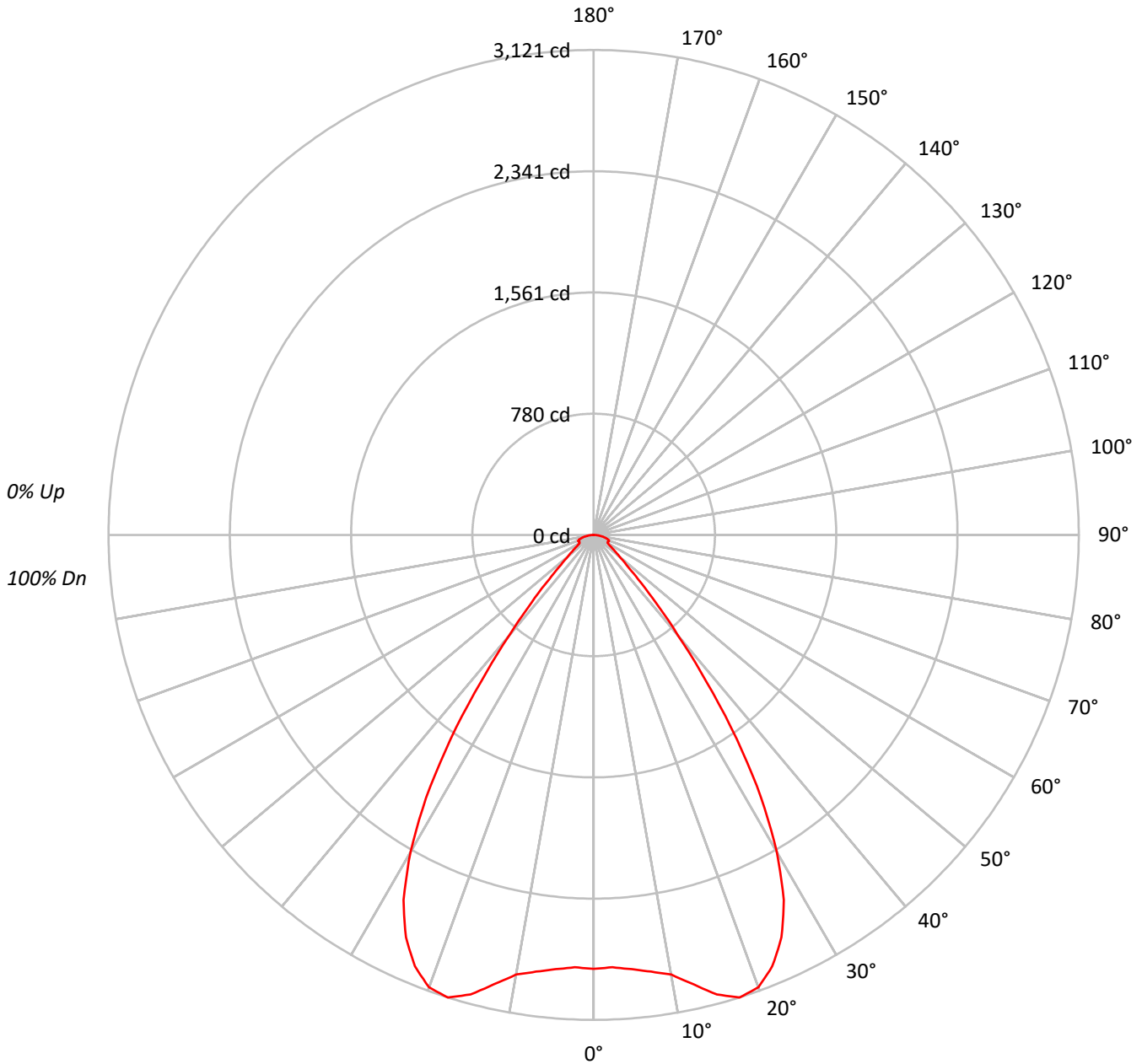
Lumens per Lamp: N/A  
Luminaire Lumens: 4104.7 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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 |    |    |   |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  | 91  |    |    |   |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |   |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |    |   |
| 4   | 93  | 85  | 78  | 73  | 91  | 83  | 78  | 73  | 81  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 70  | 69  |    |    |   |
| 5   | 88  | 78  | 72  | 67  | 86  | 77  | 71  | 66  | 75  | 70  | 66  | 74  | 69  | 65  | 72  | 68  | 65  | 63  |    |    |   |
| 6   | 83  | 73  | 66  | 61  | 81  | 72  | 66  | 61  | 70  | 65  | 60  | 69  | 64  | 60  | 67  | 63  | 60  | 58  |    |    |   |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 63  | 59  | 55  | 54  |    |    |   |
| 8   | 74  | 63  | 57  | 52  | 73  | 63  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 51  | 59  | 55  | 51  | 50  |    |    |   |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 52  | 48  | 58  | 52  | 48  | 57  | 51  | 48  | 56  | 51  | 48  | 46  |    |    |   |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 48  | 45  | 53  | 48  | 44  | 53  | 48  | 44  | 43  |    |    |   |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 153091 |
| 5°  | 154391 |
| 10° | 159956 |
| 15° | 173747 |
| 20° | 180727 |
| 25° | 172867 |
| 30° | 149188 |
| 35° | 107418 |
| 40° | 60513  |
| 45° | 31360  |
| 50° | 18703  |
| 55° | 13476  |
| 60° | 11446  |
| 65° | 13205  |
| 70° | 16734  |
| 75° | 17707  |
| 80° | 17300  |
| 85° | 16417  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 270.0  | 6.6       |
| 10°-20°   | 863.4  | 21.0      |
| 20°-30°   | 1290.6 | 31.4      |
| 30°-40°   | 986.6  | 24.0      |
| 40°-50°   | 344.6  | 8.4       |
| 50°-60°   | 131.3  | 3.2       |
| 60°-70°   | 103.0  | 2.5       |
| 70°-80°   | 87.1   | 2.1       |
| 80°-90°   | 28.0   | 0.7       |
| 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°    | 2424.0 | 59.1      |
| 0°-40°    | 3410.6 | 83.1      |
| 0°-60°    | 3886.5 | 94.7      |
| 0°-90°    | 4104.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4104.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2793 |      |
| 5°  | 2806 | 270  |
| 15° | 3061 | 863  |
| 25° | 2858 | 1291 |
| 35° | 1605 | 987  |
| 45° | 404  | 345  |
| 55° | 141  | 131  |
| 65° | 102  | 103  |
| 75° | 84   | 87   |
| 85° | 26   | 28   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2792.6 |
| 2.5°  | 2784.7 |
| 5°    | 2805.6 |
| 7.5°  | 2834.3 |
| 10°   | 2873.5 |
| 12.5° | 2962.2 |
| 15°   | 3061.4 |
| 17.5° | 3121.4 |
| 20°   | 3097.9 |
| 22.5° | 3004.0 |
| 25°   | 2857.9 |
| 27.5° | 2649.1 |
| 30°   | 2356.8 |
| 32.5° | 2007.0 |
| 35°   | 1605.1 |
| 37.5° | 1190.1 |
| 40°   | 845.6  |
| 42.5° | 592.5  |
| 45°   | 404.5  |
| 47.5° | 284.5  |
| 50°   | 219.3  |
| 52.5° | 172.2  |
| 55°   | 141.0  |
| 57.5° | 114.8  |
| 60°   | 104.4  |
| 62.5° | 101.8  |
| 65°   | 101.8  |
| 67.5° | 107.0  |
| 70°   | 104.4  |
| 72.5° | 96.5   |
| 75°   | 83.6   |
| 77.5° | 70.5   |
| 80°   | 54.8   |
| 82.5° | 39.1   |
| 85°   | 26.1   |
| 87.5° | 10.4   |
| 90°   | 0.0    |

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— 0°-180°

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