

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: P593124

Luminaire Tested: **HCC6W20D010SL-HM60525850-61WDBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593124  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W20D010SL-HM60525850-61WDBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

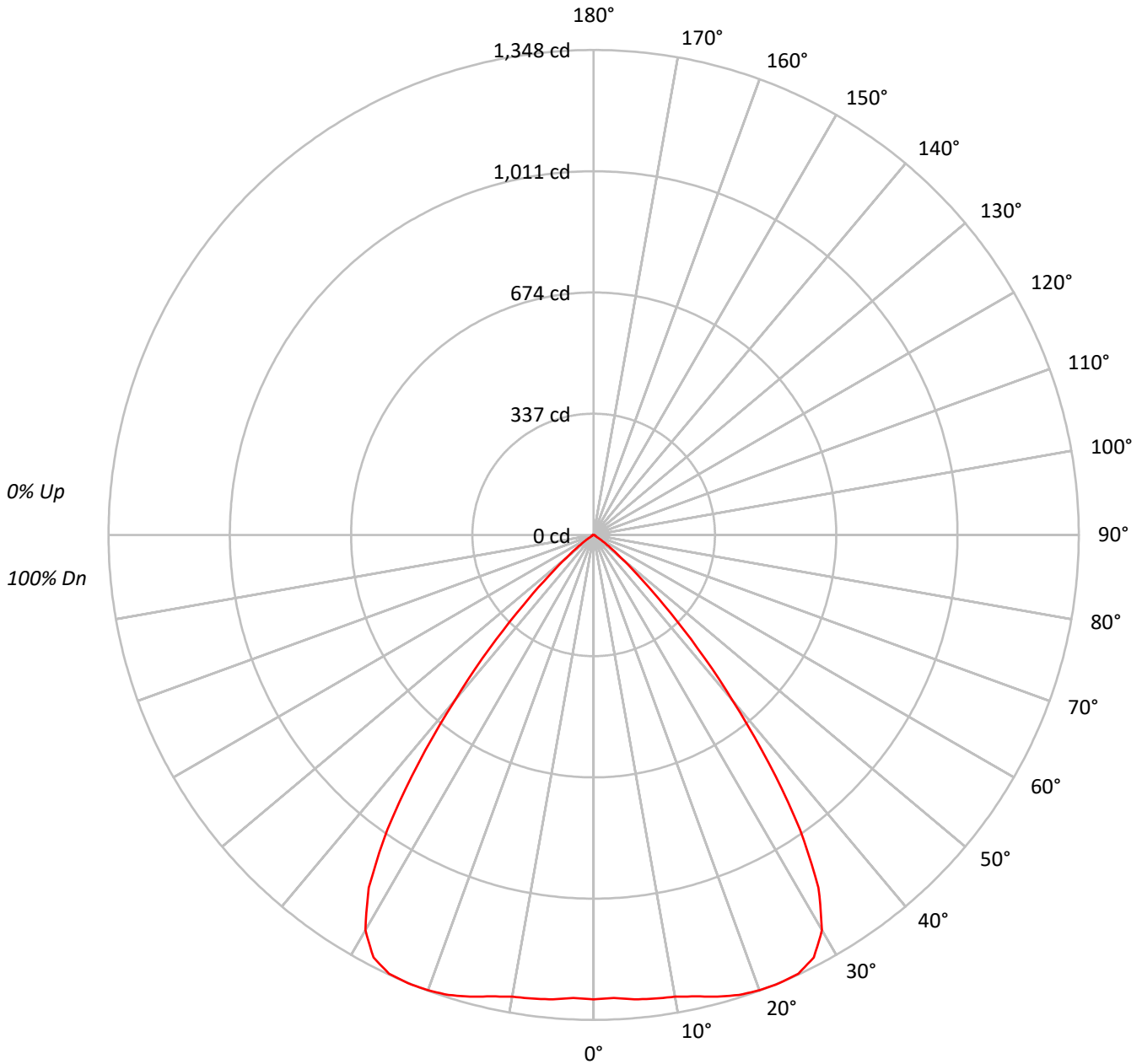
Lumens per Lamp: N/A  
Luminaire Lumens: 1993.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): 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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 97  | 95  | 94  | 92  |    |    |
| 2   | 107 | 101 | 97  | 93  | 104 | 100 | 95  | 92  | 96  | 93  | 90  | 93  | 90  | 88  | 90  | 88  | 86  | 85  |    |    |
| 3   | 100 | 93  | 88  | 83  | 98  | 92  | 87  | 83  | 89  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 79  | 77  |    |    |
| 4   | 95  | 86  | 80  | 75  | 93  | 85  | 79  | 75  | 83  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 71  |    |    |
| 5   | 89  | 80  | 73  | 68  | 87  | 79  | 73  | 68  | 77  | 72  | 67  | 75  | 70  | 67  | 73  | 69  | 66  | 65  |    |    |
| 6   | 84  | 74  | 67  | 62  | 82  | 73  | 67  | 62  | 71  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |    |    |
| 7   | 79  | 68  | 62  | 57  | 77  | 68  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |
| 8   | 74  | 64  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 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°  | 70778 |
| 5°  | 71296 |
| 10° | 72544 |
| 15° | 75420 |
| 20° | 78582 |
| 25° | 81380 |
| 30° | 80291 |
| 35° | 66896 |
| 40° | 42902 |
| 45° | 21421 |
| 50° | 8503  |
| 55° | 2896  |
| 60° | 833   |
| 65° | 584   |
| 70° | 497   |
| 75° | 657   |
| 80° | 474   |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 123.9  | 6.2       |
| 10°-20°   | 376.9  | 18.9      |
| 20°-30°   | 615.4  | 30.9      |
| 30°-40°   | 603.3  | 30.3      |
| 40°-50°   | 231.3  | 11.6      |
| 50°-60°   | 34.0   | 1.7       |
| 60°-70°   | 5.0    | 0.3       |
| 70°-80°   | 2.6    | 0.1       |
| 80°-90°   | 0.6    | 0.0       |
| 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°    | 1116.2 | 56.0      |
| 0°-40°    | 1719.5 | 86.3      |
| 0°-60°    | 1984.7 | 99.6      |
| 0°-90°    | 1993.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1993.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1291 |      |
| 5°  | 1296 | 124  |
| 15° | 1329 | 377  |
| 25° | 1345 | 615  |
| 35° | 1000 | 603  |
| 45° | 276  | 231  |
| 55° | 30   | 34   |
| 65° | 4    | 5    |
| 75° | 3    | 3    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1291.1 |
| 2.5°  | 1288.1 |
| 5°    | 1295.6 |
| 7.5°  | 1300.1 |
| 10°   | 1303.2 |
| 12.5° | 1313.7 |
| 15°   | 1328.9 |
| 17.5° | 1340.9 |
| 20°   | 1347.0 |
| 22.5° | 1348.5 |
| 25°   | 1345.4 |
| 27.5° | 1324.4 |
| 30°   | 1268.4 |
| 32.5° | 1162.8 |
| 35°   | 999.6  |
| 37.5° | 798.8  |
| 40°   | 599.5  |
| 42.5° | 427.4  |
| 45°   | 276.3  |
| 47.5° | 169.2  |
| 50°   | 99.7   |
| 52.5° | 57.3   |
| 55°   | 30.3   |
| 57.5° | 13.6   |
| 60°   | 7.6    |
| 62.5° | 6.0    |
| 65°   | 4.5    |
| 67.5° | 4.5    |
| 70°   | 3.1    |
| 72.5° | 3.1    |
| 75°   | 3.1    |
| 77.5° | 1.5    |
| 80°   | 1.5    |
| 82.5° | 1.5    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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Scaled Data Report



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— 0°-180°

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