

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: P593131

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593131  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W20D010SL-HM60525850-61NDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

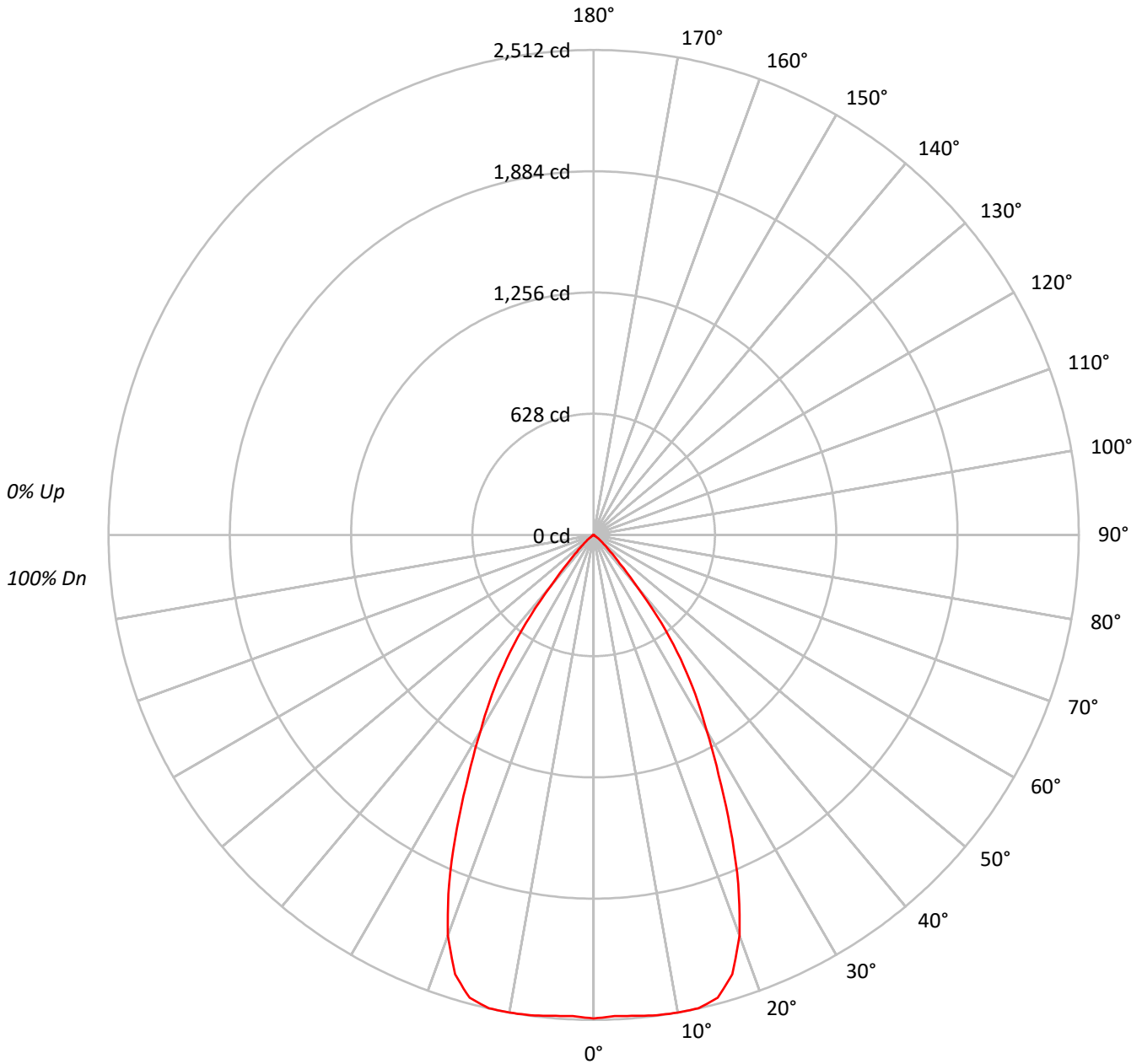
Lumens per Lamp: N/A  
Luminaire Lumens: 2299.5 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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   | 114 | 111 | 108 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98  | 98  | 97  | 96  | 94  |
| 2   | 108 | 103 | 99  | 96  | 106 | 102 | 98  | 95  | 98  | 96  | 93  | 96  | 93  | 91  | 93  | 91  | 89  | 87  |
| 3   | 103 | 97  | 92  | 88  | 101 | 95  | 91  | 87  | 93  | 89  | 86  | 90  | 87  | 84  | 88  | 85  | 83  | 82  |
| 4   | 98  | 90  | 85  | 81  | 96  | 89  | 84  | 80  | 87  | 83  | 79  | 85  | 81  | 79  | 83  | 80  | 78  | 76  |
| 5   | 93  | 85  | 79  | 75  | 91  | 84  | 79  | 75  | 82  | 77  | 74  | 80  | 76  | 73  | 79  | 75  | 73  | 71  |
| 6   | 88  | 80  | 74  | 70  | 87  | 79  | 73  | 69  | 77  | 73  | 69  | 76  | 72  | 68  | 75  | 71  | 68  | 67  |
| 7   | 84  | 75  | 69  | 65  | 83  | 74  | 69  | 65  | 73  | 68  | 64  | 72  | 67  | 64  | 71  | 67  | 64  | 62  |
| 8   | 80  | 71  | 65  | 61  | 79  | 70  | 65  | 61  | 69  | 64  | 60  | 68  | 64  | 60  | 67  | 63  | 60  | 59  |
| 9   | 76  | 67  | 61  | 57  | 75  | 66  | 61  | 57  | 65  | 60  | 57  | 65  | 60  | 57  | 64  | 60  | 56  | 55  |
| 10  | 73  | 63  | 58  | 54  | 72  | 63  | 57  | 54  | 62  | 57  | 54  | 61  | 57  | 53  | 61  | 56  | 53  | 52  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 137319 |
| 5°  | 137596 |
| 10° | 139860 |
| 15° | 140880 |
| 20° | 128782 |
| 25° | 101195 |
| 30° | 74075  |
| 35° | 52548  |
| 40° | 24854  |
| 45° | 9482   |
| 50° | 4256   |
| 55° | 1156   |
| 60° | 493    |
| 65° | 402    |
| 70° | 240    |
| 75° | 318    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 239.2  | 10.4      |
| 10°-20°   | 686.1  | 29.8      |
| 20°-30°   | 763.2  | 33.2      |
| 30°-40°   | 476.8  | 20.7      |
| 40°-50°   | 113.3  | 4.9       |
| 50°-60°   | 16.2   | 0.7       |
| 60°-70°   | 3.4    | 0.1       |
| 70°-80°   | 1.4    | 0.1       |
| 80°-90°   | 0.0    | 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°    | 1688.5 | 73.4      |
| 0°-40°    | 2165.2 | 94.2      |
| 0°-60°    | 2294.7 | 99.8      |
| 0°-90°    | 2299.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2299.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2505 |      |
| 5°  | 2500 | 239  |
| 15° | 2482 | 686  |
| 25° | 1673 | 763  |
| 35° | 785  | 477  |
| 45° | 122  | 113  |
| 55° | 12   | 16   |
| 65° | 3    | 3    |
| 75° | 2    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2504.9 |
| 2.5°  | 2494.4 |
| 5°    | 2500.4 |
| 7.5°  | 2509.5 |
| 10°   | 2512.5 |
| 12.5° | 2511.1 |
| 15°   | 2482.3 |
| 17.5° | 2385.8 |
| 20°   | 2207.5 |
| 22.5° | 1956.9 |
| 25°   | 1673.0 |
| 27.5° | 1401.2 |
| 30°   | 1170.2 |
| 32.5° | 978.5  |
| 35°   | 785.2  |
| 37.5° | 576.8  |
| 40°   | 347.3  |
| 42.5° | 200.8  |
| 45°   | 122.3  |
| 47.5° | 78.5   |
| 50°   | 49.9   |
| 52.5° | 28.7   |
| 55°   | 12.1   |
| 57.5° | 6.0    |
| 60°   | 4.5    |
| 62.5° | 4.5    |
| 65°   | 3.1    |
| 67.5° | 3.1    |
| 70°   | 1.5    |
| 72.5° | 1.5    |
| 75°   | 1.5    |
| 77.5° | 1.5    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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