

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: P581880

Luminaire Tested: **HCC6W20D010SL-HM60525835-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581880  
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: HCC6W20D010SL-HM60525835-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

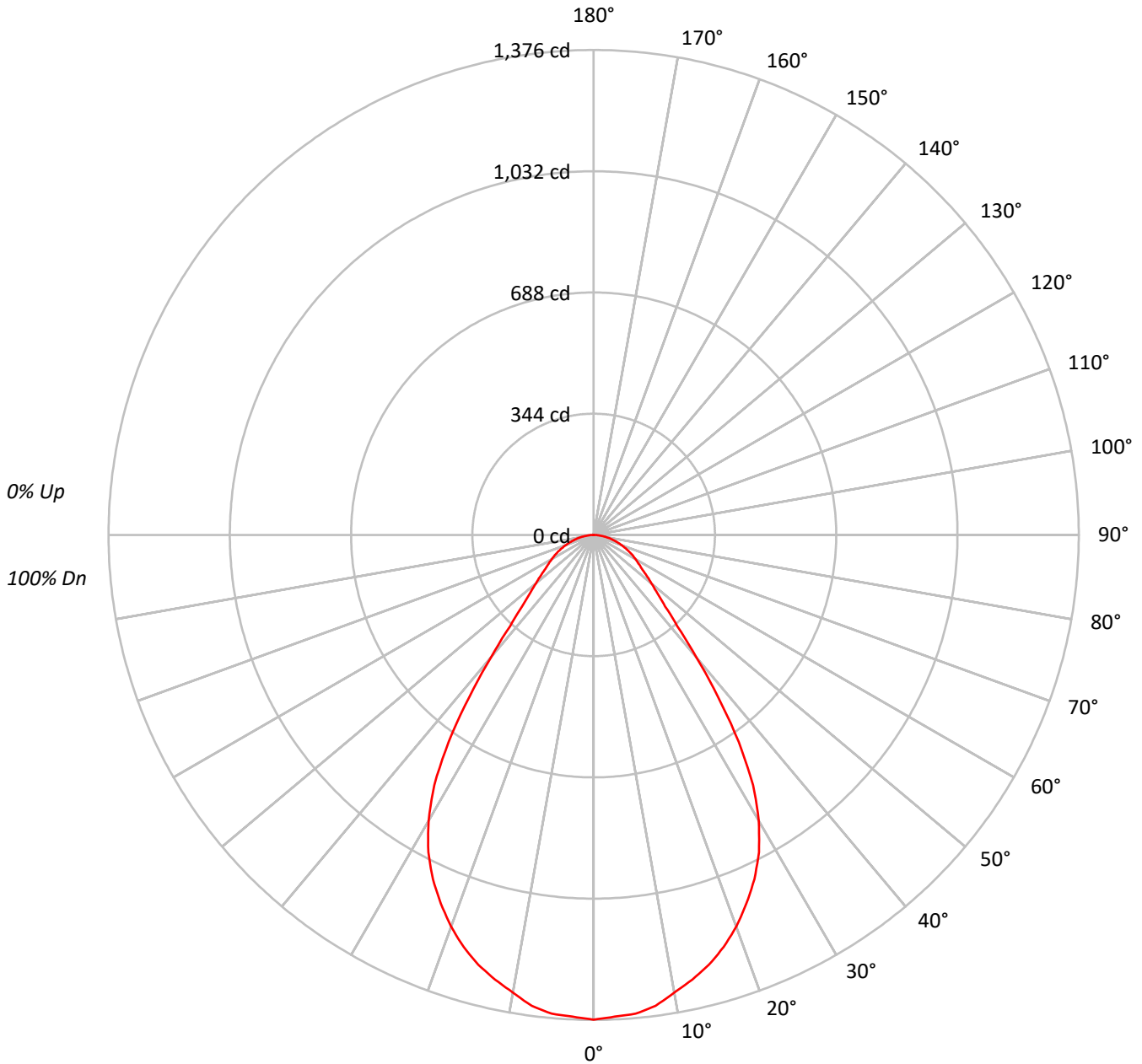
Lumens per Lamp: N/A  
Luminaire Lumens: 1990.8 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  | 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°  | 75405 |
| 5°  | 75044 |
| 10° | 73390 |
| 15° | 71663 |
| 20° | 68973 |
| 25° | 65230 |
| 30° | 59275 |
| 35° | 47984 |
| 40° | 32361 |
| 45° | 22235 |
| 50° | 18225 |
| 55° | 15942 |
| 60° | 15076 |
| 65° | 14243 |
| 70° | 13368 |
| 75° | 12687 |
| 80° | 11555 |
| 85° | 10127 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 128.7  | 6.5       |
| 10°-20°   | 354.6  | 17.8      |
| 20°-30°   | 492.7  | 24.7      |
| 30°-40°   | 438.7  | 22.0      |
| 40°-50°   | 232.9  | 11.7      |
| 50°-60°   | 152.3  | 7.6       |
| 60°-70°   | 109.1  | 5.5       |
| 70°-80°   | 63.3   | 3.2       |
| 80°-90°   | 18.5   | 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°    | 976.0  | 49.0      |
| 0°-40°    | 1414.7 | 71.1      |
| 0°-60°    | 1799.8 | 90.4      |
| 0°-90°    | 1990.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1990.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1376 |      |
| 5°  | 1364 | 129  |
| 15° | 1263 | 355  |
| 25° | 1078 | 493  |
| 35° | 717  | 439  |
| 45° | 287  | 233  |
| 55° | 167  | 152  |
| 65° | 110  | 109  |
| 75° | 60   | 63   |
| 85° | 16   | 19   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1375.5 |
| 2.5°  | 1368.1 |
| 5°    | 1363.7 |
| 7.5°  | 1347.6 |
| 10°   | 1318.4 |
| 12.5° | 1292.1 |
| 15°   | 1262.7 |
| 17.5° | 1226.1 |
| 20°   | 1182.3 |
| 22.5° | 1132.5 |
| 25°   | 1078.4 |
| 27.5° | 1015.5 |
| 30°   | 936.4  |
| 32.5° | 841.4  |
| 35°   | 717.0  |
| 37.5° | 579.4  |
| 40°   | 452.2  |
| 42.5° | 351.1  |
| 45°   | 286.8  |
| 47.5° | 244.4  |
| 50°   | 213.7  |
| 52.5° | 188.8  |
| 55°   | 166.8  |
| 57.5° | 150.7  |
| 60°   | 137.5  |
| 62.5° | 124.4  |
| 65°   | 109.8  |
| 67.5° | 96.5   |
| 70°   | 83.4   |
| 72.5° | 71.7   |
| 75°   | 59.9   |
| 77.5° | 48.3   |
| 80°   | 36.6   |
| 82.5° | 26.3   |
| 85°   | 16.1   |
| 87.5° | 7.4    |
| 90°   | 0.0    |

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— 0°-180°

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