

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: P581898

Luminaire Tested: **HCC6W20D010MW-HM60525840-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581898  
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: HCC6W20D010MW-HM60525840-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

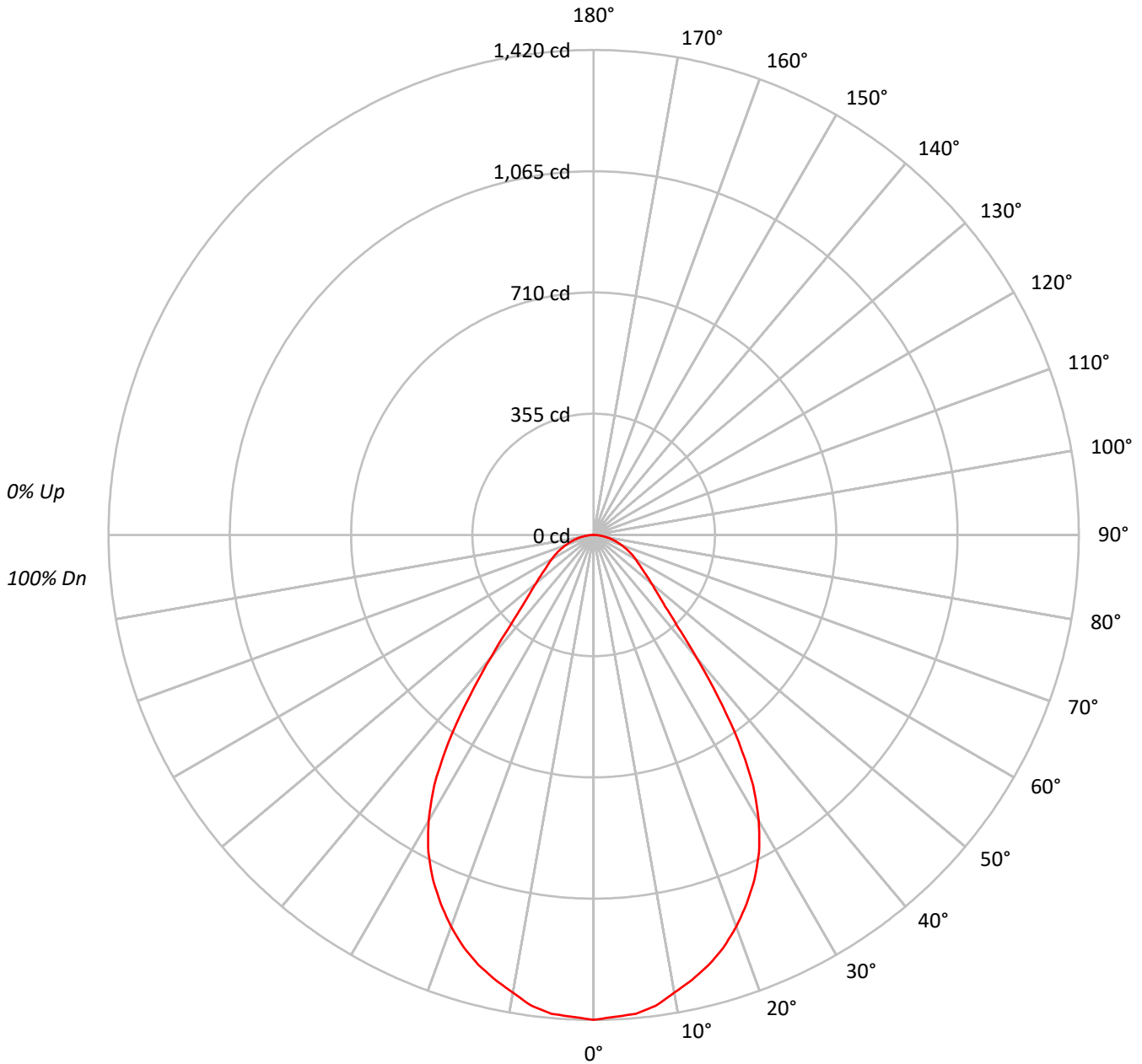
Lumens per Lamp: N/A  
Luminaire Lumens: 2055.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  |  | 97  | 95  | 94  |  | 94  | 92  | 91  | 89  |
| 2   | 104 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  |  | 89  | 85  | 83  |  | 86  | 83  | 81  | 79  |
| 3   | 97  | 88  | 82  | 77  | 94  | 87  | 81  | 76  | 84  | 79  | 75  |  | 81  | 77  | 73  |  | 79  | 75  | 72  | 70  |
| 4   | 90  | 81  | 73  | 68  | 88  | 79  | 73  | 68  | 77  | 71  | 67  |  | 75  | 70  | 66  |  | 73  | 69  | 65  | 63  |
| 5   | 84  | 74  | 67  | 61  | 83  | 73  | 66  | 61  | 71  | 65  | 60  |  | 69  | 64  | 60  |  | 67  | 63  | 59  | 57  |
| 6   | 79  | 68  | 61  | 55  | 77  | 67  | 60  | 55  | 66  | 59  | 55  |  | 64  | 59  | 54  |  | 63  | 58  | 54  | 52  |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 55  | 50  |  | 60  | 54  | 50  |  | 58  | 53  | 49  | 48  |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  |  | 56  | 50  | 46  |  | 54  | 49  | 46  | 44  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  |  | 52  | 46  | 42  |  | 51  | 46  | 42  | 41  |
| 10  | 62  | 51  | 44  | 40  | 61  | 51  | 44  | 40  | 50  | 44  | 39  |  | 49  | 43  | 39  |  | 48  | 43  | 39  | 38  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 77834 |
| 5°  | 77460 |
| 10° | 75750 |
| 15° | 73973 |
| 20° | 71196 |
| 25° | 67335 |
| 30° | 61187 |
| 35° | 49530 |
| 40° | 33398 |
| 45° | 22956 |
| 50° | 18805 |
| 55° | 16458 |
| 60° | 15569 |
| 65° | 14697 |
| 70° | 13800 |
| 75° | 13132 |
| 80° | 11902 |
| 85° | 10504 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 132.9  | 6.5       |
| 10°-20°   | 366.0  | 17.8      |
| 20°-30°   | 508.5  | 24.7      |
| 30°-40°   | 452.8  | 22.0      |
| 40°-50°   | 240.3  | 11.7      |
| 50°-60°   | 157.2  | 7.7       |
| 60°-70°   | 112.7  | 5.5       |
| 70°-80°   | 65.4   | 3.2       |
| 80°-90°   | 19.1   | 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°    | 1007.5 | 49.0      |
| 0°-40°    | 1460.2 | 71.1      |
| 0°-60°    | 1857.8 | 90.4      |
| 0°-90°    | 2055.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2055.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1420 |      |
| 5°  | 1408 | 133  |
| 15° | 1303 | 366  |
| 25° | 1113 | 509  |
| 35° | 740  | 453  |
| 45° | 296  | 240  |
| 55° | 172  | 157  |
| 65° | 113  | 113  |
| 75° | 62   | 65   |
| 85° | 17   | 19   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1419.8 |
| 2.5°  | 1412.2 |
| 5°    | 1407.6 |
| 7.5°  | 1391.0 |
| 10°   | 1360.8 |
| 12.5° | 1333.7 |
| 15°   | 1303.4 |
| 17.5° | 1265.7 |
| 20°   | 1220.4 |
| 22.5° | 1169.0 |
| 25°   | 1113.2 |
| 27.5° | 1048.1 |
| 30°   | 966.6  |
| 32.5° | 868.4  |
| 35°   | 740.1  |
| 37.5° | 598.1  |
| 40°   | 466.7  |
| 42.5° | 362.4  |
| 45°   | 296.1  |
| 47.5° | 252.2  |
| 50°   | 220.5  |
| 52.5° | 194.9  |
| 55°   | 172.2  |
| 57.5° | 155.6  |
| 60°   | 142.0  |
| 62.5° | 128.4  |
| 65°   | 113.3  |
| 67.5° | 99.7   |
| 70°   | 86.1   |
| 72.5° | 74.0   |
| 75°   | 62.0   |
| 77.5° | 49.9   |
| 80°   | 37.7   |
| 82.5° | 27.2   |
| 85°   | 16.7   |
| 87.5° | 7.6    |
| 90°   | 0.0    |

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— 0°-180°

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