

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: P581912

Luminaire Tested: **HCC6S20D010MB-HM60525927-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S20D010MB-HM60525927-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

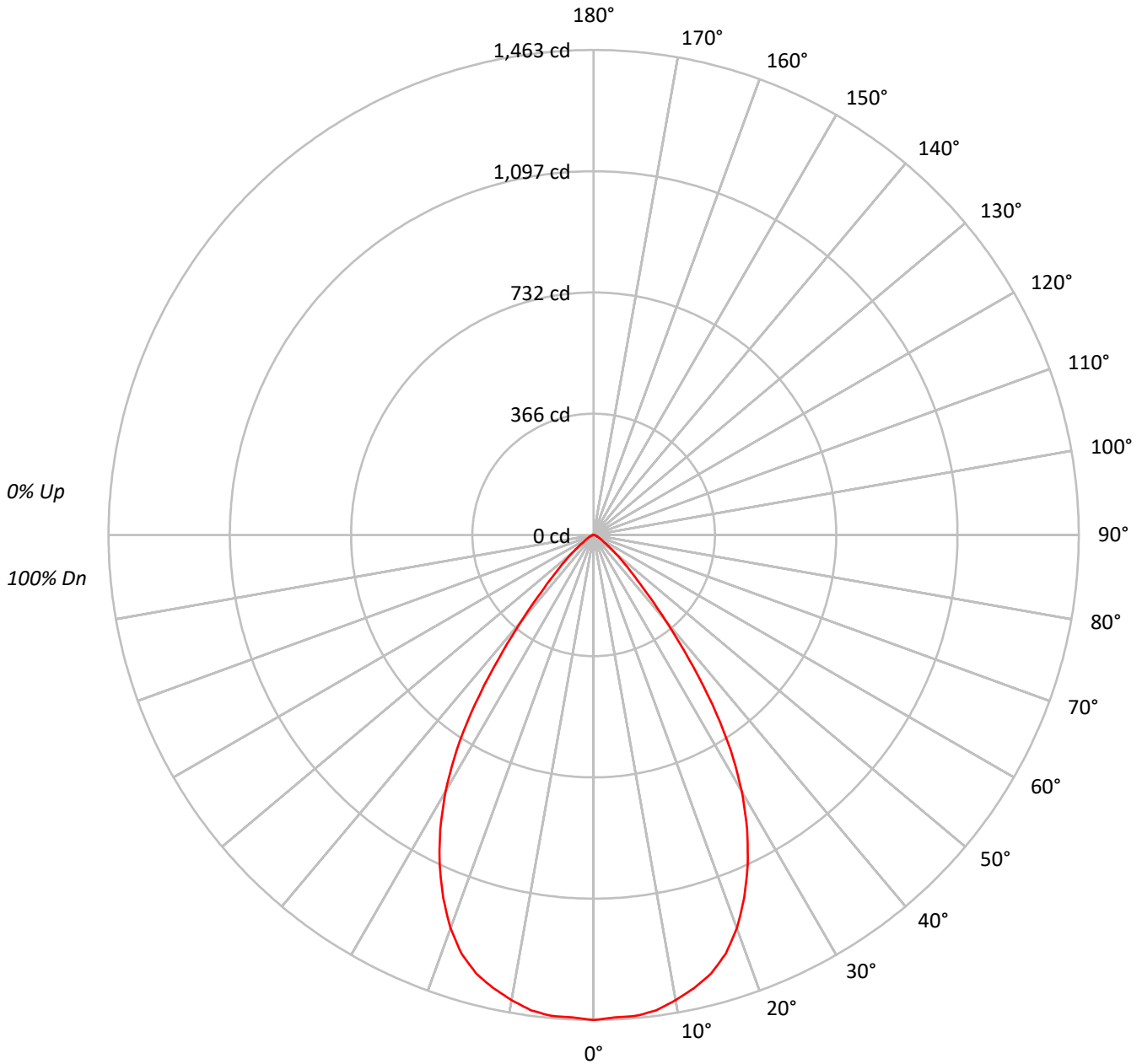
Lumens per Lamp: N/A  
Luminaire Lumens: 1601.9 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 96  | 94  | 93  | 93  | 93  | 93  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  | 94  | 91  | 89  | 91  | 89  | 87  | 85  | 85  | 85  | 85  |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  | 88  | 84  | 81  | 86  | 83  | 80  | 79  | 79  | 79  | 79  |
| 4   | 96  | 88  | 82  | 77  | 94  | 86  | 81  | 77  | 84  | 79  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 72  | 72  | 72  | 72  |
| 5   | 90  | 81  | 75  | 71  | 89  | 80  | 75  | 70  | 79  | 74  | 70  | 77  | 73  | 69  | 75  | 72  | 68  | 67  | 67  | 67  | 67  |
| 6   | 85  | 76  | 70  | 65  | 84  | 75  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 64  | 71  | 67  | 63  | 62  | 62  | 62  | 62  |
| 7   | 81  | 71  | 65  | 60  | 79  | 70  | 64  | 60  | 69  | 64  | 60  | 68  | 63  | 59  | 67  | 62  | 59  | 57  | 57  | 57  | 57  |
| 8   | 77  | 67  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 59  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 53  | 53  | 53  | 53  |
| 9   | 73  | 62  | 56  | 52  | 72  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 59  | 55  | 51  | 50  | 50  | 50  | 50  |
| 10  | 69  | 59  | 53  | 49  | 68  | 58  | 52  | 48  | 57  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 47  | 47  | 47  | 47  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 80224 |
| 5°  | 80156 |
| 10° | 79324 |
| 15° | 77730 |
| 20° | 73635 |
| 25° | 66488 |
| 30° | 56490 |
| 35° | 41706 |
| 40° | 24124 |
| 45° | 12800 |
| 50° | 7241  |
| 55° | 3775  |
| 60° | 2489  |
| 65° | 1764  |
| 70° | 1266  |
| 75° | 953   |
| 80° | 726   |
| 85° | 692   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 138.0  | 8.6       |
| 10°-20°   | 383.1  | 23.9      |
| 20°-30°   | 500.0  | 31.2      |
| 30°-40°   | 382.1  | 23.9      |
| 40°-50°   | 138.3  | 8.6       |
| 50°-60°   | 40.2   | 2.5       |
| 60°-70°   | 14.4   | 0.9       |
| 70°-80°   | 4.9    | 0.3       |
| 80°-90°   | 0.9    | 0.1       |
| 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°    | 1021.1 | 63.7      |
| 0°-40°    | 1403.1 | 87.6      |
| 0°-60°    | 1581.6 | 98.7      |
| 0°-90°    | 1601.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1601.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1463 |      |
| 5°  | 1457 | 138  |
| 15° | 1370 | 383  |
| 25° | 1099 | 500  |
| 35° | 623  | 382  |
| 45° | 165  | 138  |
| 55° | 40   | 40   |
| 65° | 14   | 14   |
| 75° | 4    | 5    |
| 85° | 1    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1463.4 |
| 2.5°  | 1456.6 |
| 5°    | 1456.6 |
| 7.5°  | 1446.5 |
| 10°   | 1425.0 |
| 12.5° | 1400.0 |
| 15°   | 1369.6 |
| 17.5° | 1324.4 |
| 20°   | 1262.2 |
| 22.5° | 1185.2 |
| 25°   | 1099.2 |
| 27.5° | 1002.0 |
| 30°   | 892.4  |
| 32.5° | 769.1  |
| 35°   | 623.2  |
| 37.5° | 470.4  |
| 40°   | 337.1  |
| 42.5° | 232.9  |
| 45°   | 165.1  |
| 47.5° | 118.7  |
| 50°   | 84.9   |
| 52.5° | 59.9   |
| 55°   | 39.5   |
| 57.5° | 28.3   |
| 60°   | 22.7   |
| 62.5° | 18.1   |
| 65°   | 13.6   |
| 67.5° | 11.3   |
| 70°   | 7.9    |
| 72.5° | 5.7    |
| 75°   | 4.5    |
| 77.5° | 3.4    |
| 80°   | 2.3    |
| 82.5° | 1.1    |
| 85°   | 1.1    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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