

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: P584058

Luminaire Tested: **HCC8S20D010BZ-HM80520930-81WDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S20D010BZ-HM80520930-81WDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

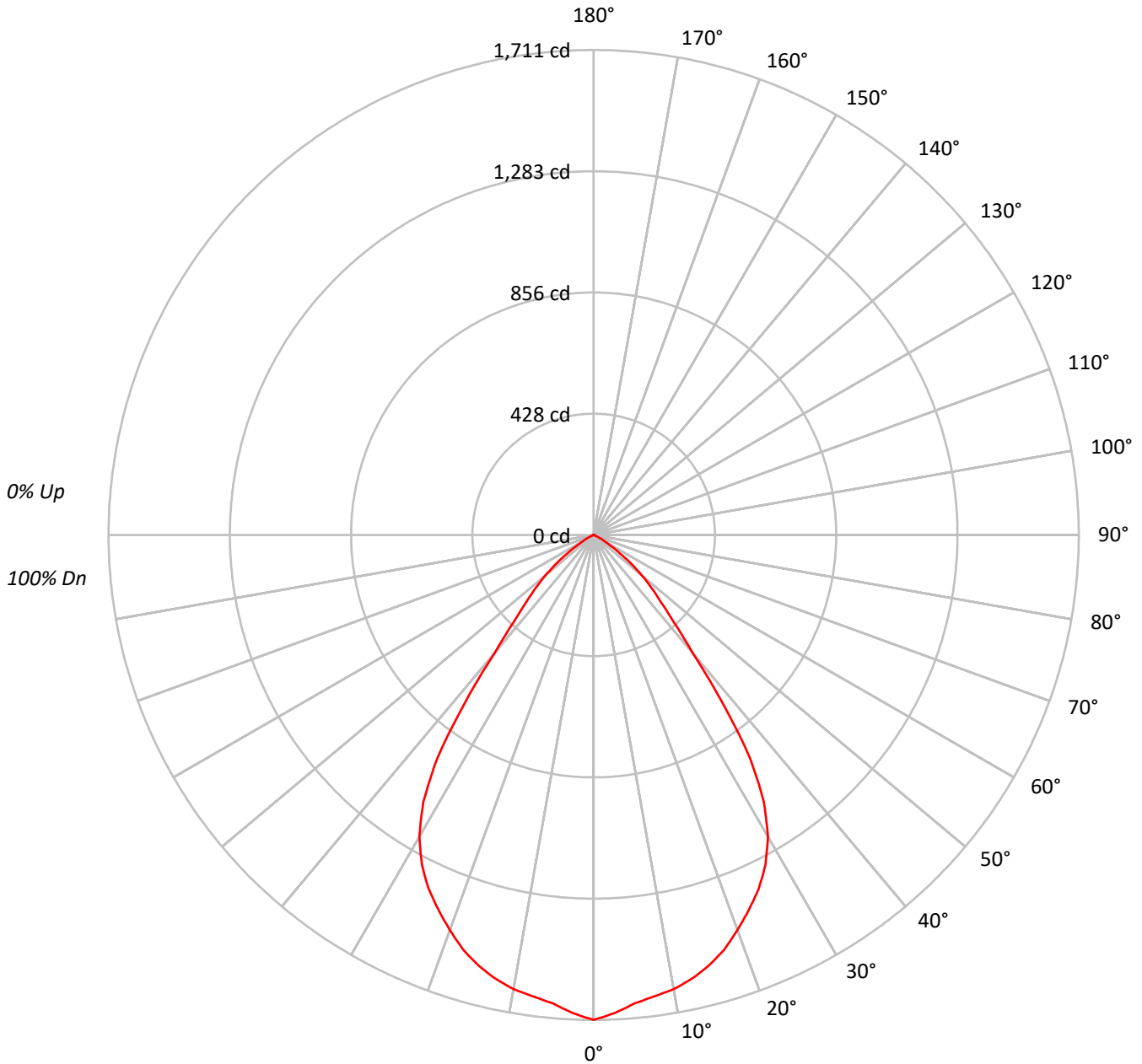
Lumens per Lamp: N/A  
Luminaire Lumens: 2199.2 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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  |     |    |    |
| 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  | 96  | 95  | 94  | 92  |    |    |
| 2   | 106 | 101 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 92  | 90  | 93  | 90  | 88  | 90  | 88  | 86  | 84  |    |    |
| 3   | 100 | 93  | 87  | 83  | 98  | 91  | 86  | 82  | 89  | 84  | 81  | 86  | 83  | 79  | 84  | 81  | 78  | 77  |    |    |
| 4   | 94  | 86  | 79  | 75  | 92  | 84  | 79  | 74  | 82  | 77  | 73  | 80  | 76  | 72  | 78  | 75  | 71  | 70  |    |    |
| 5   | 88  | 79  | 72  | 68  | 87  | 78  | 72  | 67  | 76  | 71  | 67  | 74  | 70  | 66  | 73  | 69  | 65  | 64  |    |    |
| 6   | 83  | 73  | 66  | 62  | 82  | 72  | 66  | 61  | 71  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 60  | 59  |    |    |
| 7   | 78  | 68  | 61  | 57  | 77  | 67  | 61  | 56  | 66  | 60  | 56  | 65  | 60  | 56  | 63  | 59  | 55  | 54  |    |    |
| 8   | 74  | 63  | 57  | 52  | 73  | 63  | 56  | 52  | 62  | 56  | 52  | 60  | 55  | 51  | 59  | 55  | 51  | 50  |    |    |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 52  | 48  | 58  | 52  | 48  | 57  | 51  | 48  | 56  | 51  | 47  | 46  |    |    |
| 10  | 66  | 55  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 48  | 44  | 53  | 48  | 44  | 52  | 48  | 44  | 43  |    |    |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 52764 |
| 5°  | 51344 |
| 10° | 50954 |
| 15° | 50194 |
| 20° | 48675 |
| 25° | 46861 |
| 30° | 43771 |
| 35° | 36225 |
| 40° | 21866 |
| 45° | 14731 |
| 50° | 10616 |
| 55° | 6054  |
| 60° | 2670  |
| 65° | 956   |
| 70° | 352   |
| 75° | 155   |
| 80° | 0     |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 157.6  | 7.2       |
| 10°-20°   | 441.9  | 20.1      |
| 20°-30°   | 630.3  | 28.7      |
| 30°-40°   | 574.0  | 26.1      |
| 40°-50°   | 270.8  | 12.3      |
| 50°-60°   | 106.5  | 4.8       |
| 60°-70°   | 17.0   | 0.8       |
| 70°-80°   | 1.2    | 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°    | 1229.8 | 55.9      |
| 0°-40°    | 1803.8 | 82.0      |
| 0°-60°    | 2181.1 | 99.2      |
| 0°-90°    | 2199.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2199.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1711 |      |
| 5°  | 1659 | 158  |
| 15° | 1572 | 442  |
| 25° | 1377 | 630  |
| 35° | 962  | 574  |
| 45° | 338  | 271  |
| 55° | 113  | 107  |
| 65° | 13   | 17   |
| 75° | 1    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1711.1 |
| 2.5°  | 1688.8 |
| 5°    | 1658.7 |
| 7.5°  | 1641.7 |
| 10°   | 1627.3 |
| 12.5° | 1603.7 |
| 15°   | 1572.3 |
| 17.5° | 1533.1 |
| 20°   | 1483.3 |
| 22.5° | 1430.9 |
| 25°   | 1377.3 |
| 27.5° | 1311.8 |
| 30°   | 1229.3 |
| 32.5° | 1118.1 |
| 35°   | 962.3  |
| 37.5° | 743.6  |
| 40°   | 543.2  |
| 42.5° | 417.6  |
| 45°   | 337.8  |
| 47.5° | 277.5  |
| 50°   | 221.3  |
| 52.5° | 166.3  |
| 55°   | 112.6  |
| 57.5° | 70.7   |
| 60°   | 43.3   |
| 62.5° | 26.2   |
| 65°   | 13.1   |
| 67.5° | 6.5    |
| 70°   | 3.9    |
| 72.5° | 1.3    |
| 75°   | 1.3    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 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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