

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: P593824

Luminaire Tested: **HCC8W55D010BZ-HM82555850-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W55D010BZ-HM82555850-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

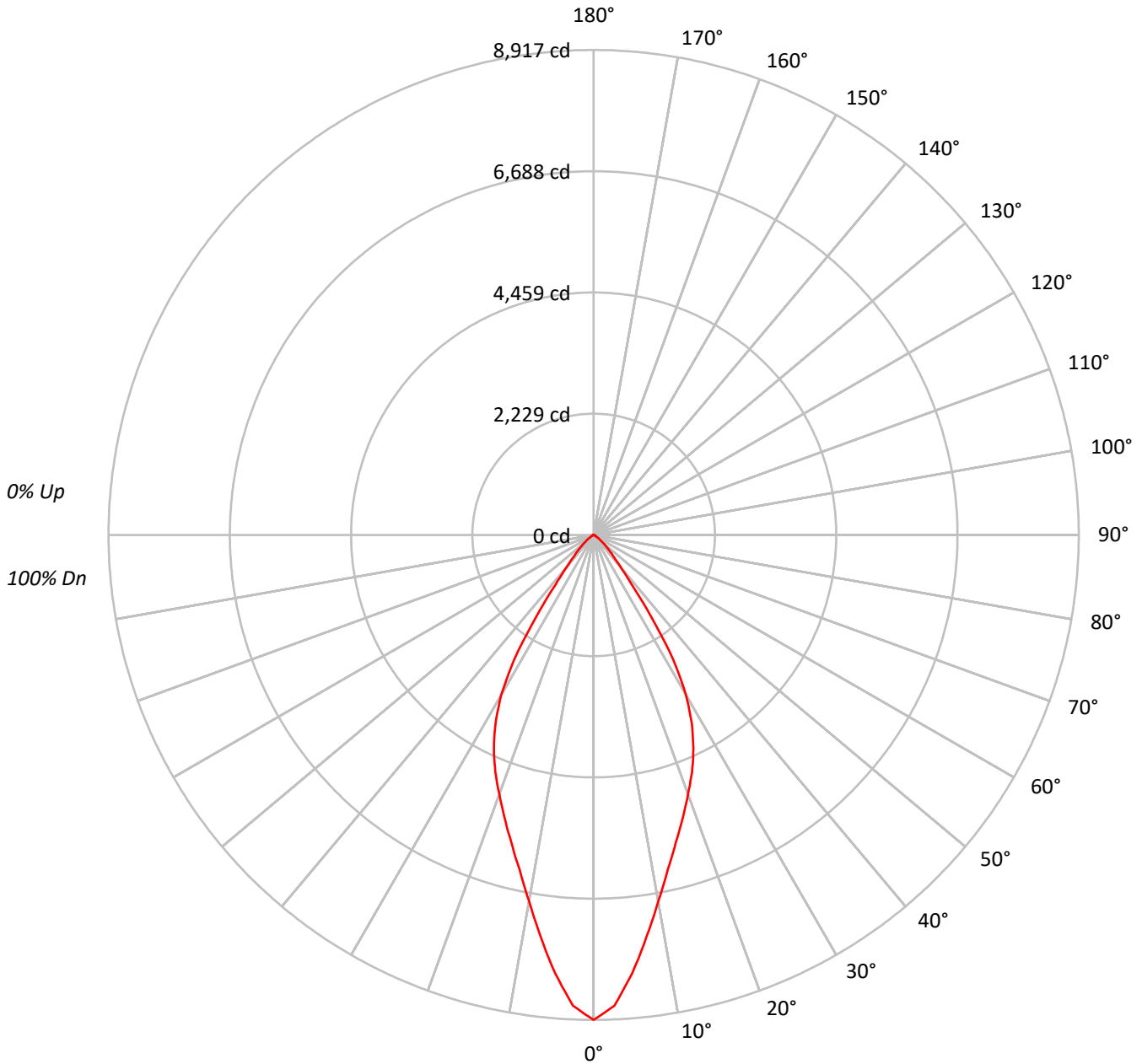
Lumens per Lamp: N/A  
Luminaire Lumens: 6012.4 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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 |
| 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 | 106 | 104 | 105 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 94  |    |    |
| 2   | 108 | 103 | 99  | 96  | 106 | 101 | 98  | 95  | 98  | 95  | 93  | 95  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 3   | 103 | 96  | 91  | 87  | 101 | 95  | 90  | 87  | 92  | 88  | 85  | 90  | 87  | 84  | 88  | 85  | 83  | 81  |    |    |
| 4   | 97  | 90  | 85  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 76  |    |    |
| 5   | 93  | 84  | 79  | 74  | 91  | 83  | 78  | 74  | 82  | 77  | 73  | 80  | 76  | 73  | 78  | 75  | 72  | 71  |    |    |
| 6   | 88  | 79  | 73  | 69  | 87  | 78  | 73  | 69  | 77  | 72  | 68  | 76  | 71  | 68  | 74  | 70  | 67  | 66  |    |    |
| 7   | 84  | 75  | 69  | 64  | 82  | 74  | 68  | 64  | 73  | 68  | 64  | 71  | 67  | 64  | 70  | 66  | 63  | 62  |    |    |
| 8   | 80  | 70  | 64  | 60  | 79  | 70  | 64  | 60  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 58  |    |    |
| 9   | 76  | 67  | 61  | 57  | 75  | 66  | 61  | 57  | 65  | 60  | 56  | 64  | 60  | 56  | 63  | 59  | 56  | 55  |    |    |
| 10  | 73  | 63  | 57  | 54  | 72  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 52  |    |    |

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

|     | 0°     |
|-----|--------|
| 0°  | 274964 |
| 5°  | 250567 |
| 10° | 214087 |
| 15° | 186702 |
| 20° | 166403 |
| 25° | 147610 |
| 30° | 120856 |
| 35° | 69401  |
| 40° | 30798  |
| 45° | 17923  |
| 50° | 10343  |
| 55° | 5908   |
| 60° | 3262   |
| 65° | 2080   |
| 70° | 1470   |
| 75° | 965    |
| 80° | 728    |
| 85° | 1451   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 732.7  | 12.2      |
| 10°-20°   | 1643.9 | 27.3      |
| 20°-30°   | 1967.8 | 32.7      |
| 30°-40°   | 1190.4 | 19.8      |
| 40°-50°   | 333.6  | 5.5       |
| 50°-60°   | 103.6  | 1.7       |
| 60°-70°   | 29.6   | 0.5       |
| 70°-80°   | 8.0    | 0.1       |
| 80°-90°   | 2.8    | 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°    | 4344.4 | 72.3      |
| 0°-40°    | 5534.8 | 92.1      |
| 0°-60°    | 5972.0 | 99.3      |
| 0°-90°    | 6012.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6012.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 8917 |      |
| 5°  | 8095 | 733  |
| 15° | 5848 | 1644 |
| 25° | 4338 | 1968 |
| 35° | 1844 | 1190 |
| 45° | 411  | 334  |
| 55° | 110  | 104  |
| 65° | 28   | 30   |
| 75° | 8    | 8    |
| 85° | 4    | 3    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 8916.9 |
| 2.5°  | 8664.6 |
| 5°    | 8094.8 |
| 7.5°  | 7451.8 |
| 10°   | 6837.2 |
| 12.5° | 6300.0 |
| 15°   | 5848.3 |
| 17.5° | 5449.4 |
| 20°   | 5070.9 |
| 22.5° | 4720.9 |
| 25°   | 4338.4 |
| 27.5° | 3907.0 |
| 30°   | 3394.2 |
| 32.5° | 2730.9 |
| 35°   | 1843.6 |
| 37.5° | 1147.6 |
| 40°   | 765.1  |
| 42.5° | 549.4  |
| 45°   | 411.0  |
| 47.5° | 301.2  |
| 50°   | 215.6  |
| 52.5° | 150.6  |
| 55°   | 109.9  |
| 57.5° | 73.2   |
| 60°   | 52.9   |
| 62.5° | 36.7   |
| 65°   | 28.5   |
| 67.5° | 20.4   |
| 70°   | 16.3   |
| 72.5° | 8.1    |
| 75°   | 8.1    |
| 77.5° | 4.1    |
| 80°   | 4.1    |
| 82.5° | 4.1    |
| 85°   | 4.1    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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