

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: P584450

Luminaire Tested: **HCC8S35D010BZ-HM82555927-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S35D010BZ-HM82555927-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

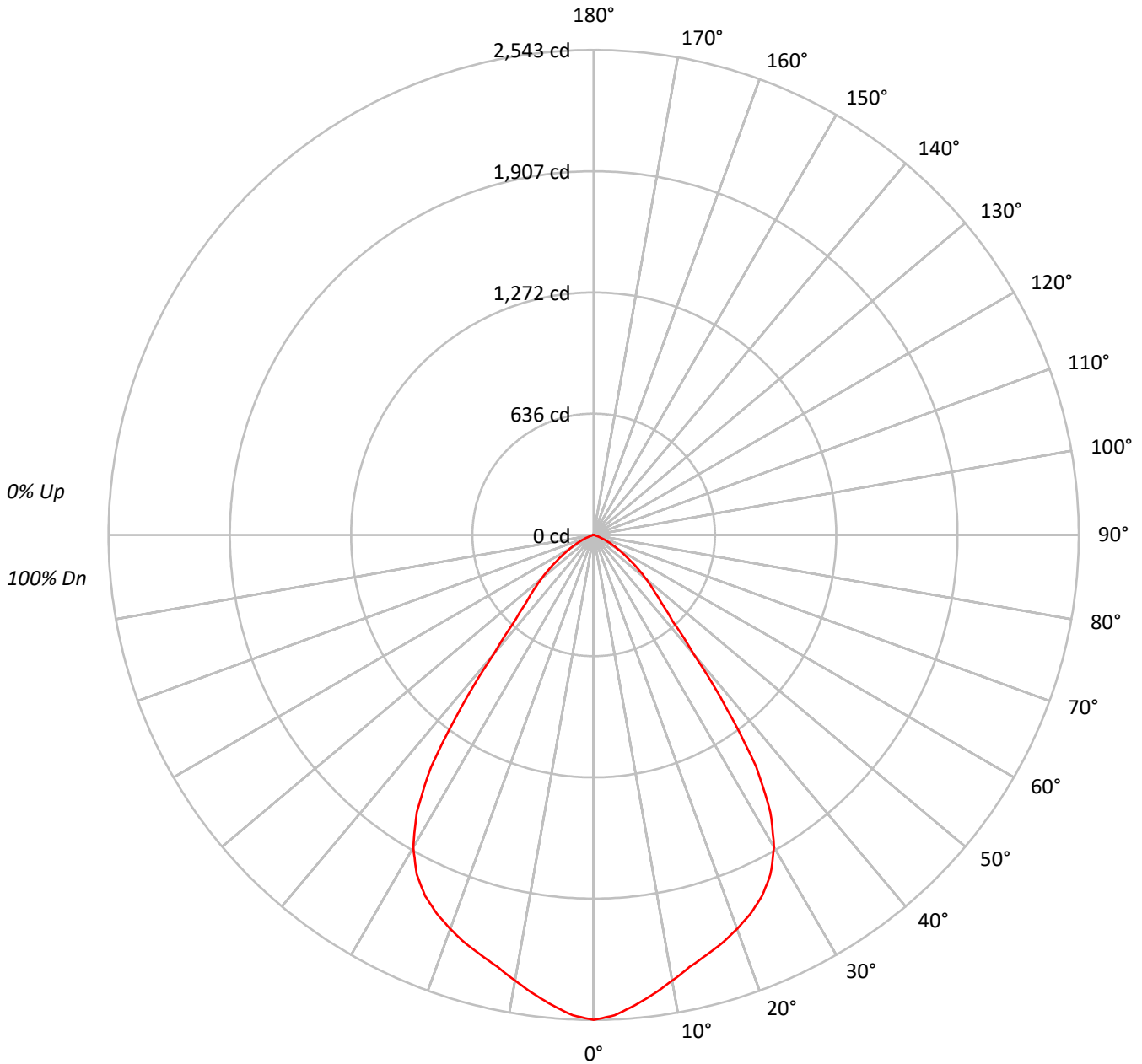
Lumens per Lamp: N/A  
Luminaire Lumens: 3425.3 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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  | 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   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |    |    |   |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  | 83  |    |    |   |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |    |   |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 76  | 72  | 79  | 74  | 71  | 77  | 73  | 70  | 68  |    |    |   |
| 5   | 87  | 78  | 71  | 66  | 86  | 77  | 70  | 66  | 75  | 69  | 65  | 73  | 68  | 64  | 71  | 67  | 64  | 62  |    |    |   |
| 6   | 82  | 72  | 65  | 60  | 80  | 71  | 64  | 60  | 69  | 64  | 59  | 68  | 63  | 59  | 66  | 62  | 58  | 57  |    |    |   |
| 7   | 77  | 67  | 60  | 55  | 76  | 66  | 59  | 55  | 64  | 59  | 54  | 63  | 58  | 54  | 62  | 57  | 54  | 52  |    |    |   |
| 8   | 73  | 62  | 55  | 50  | 71  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |    |    |   |
| 9   | 69  | 58  | 51  | 46  | 67  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 46  | 44  |    |    |   |
| 10  | 65  | 54  | 47  | 43  | 64  | 53  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 43  | 51  | 46  | 42  | 41  |    |    |   |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 78417 |
| 5°  | 76652 |
| 10° | 74300 |
| 15° | 72797 |
| 20° | 72141 |
| 25° | 71066 |
| 30° | 67318 |
| 35° | 55932 |
| 40° | 32936 |
| 45° | 21787 |
| 50° | 17150 |
| 55° | 12618 |
| 60° | 8764  |
| 65° | 5341  |
| 70° | 2335  |
| 75° | 1025  |
| 80° | 764   |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 233.2  | 6.8       |
| 10°-20°   | 644.7  | 18.8      |
| 20°-30°   | 955.1  | 27.9      |
| 30°-40°   | 882.6  | 25.8      |
| 40°-50°   | 407.0  | 11.9      |
| 50°-60°   | 214.0  | 6.2       |
| 60°-70°   | 75.6   | 2.2       |
| 70°-80°   | 11.9   | 0.3       |
| 80°-90°   | 1.2    | 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°    | 1833.0 | 53.5      |
| 0°-40°    | 2715.6 | 79.3      |
| 0°-60°    | 3336.6 | 97.4      |
| 0°-90°    | 3425.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3425.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2543 |      |
| 5°  | 2476 | 233  |
| 15° | 2280 | 645  |
| 25° | 2089 | 955  |
| 35° | 1486 | 883  |
| 45° | 500  | 407  |
| 55° | 235  | 214  |
| 65° | 73   | 76   |
| 75° | 9    | 12   |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2543.0 |
| 2.5°  | 2521.4 |
| 5°    | 2476.3 |
| 7.5°  | 2426.8 |
| 10°   | 2372.9 |
| 12.5° | 2321.2 |
| 15°   | 2280.3 |
| 17.5° | 2243.7 |
| 20°   | 2198.4 |
| 22.5° | 2149.0 |
| 25°   | 2088.7 |
| 27.5° | 2006.9 |
| 30°   | 1890.6 |
| 32.5° | 1724.8 |
| 35°   | 1485.8 |
| 37.5° | 1141.2 |
| 40°   | 818.2  |
| 42.5° | 613.7  |
| 45°   | 499.6  |
| 47.5° | 424.2  |
| 50°   | 357.5  |
| 52.5° | 292.8  |
| 55°   | 234.7  |
| 57.5° | 185.2  |
| 60°   | 142.1  |
| 62.5° | 107.7  |
| 65°   | 73.2   |
| 67.5° | 43.0   |
| 70°   | 25.9   |
| 72.5° | 15.1   |
| 75°   | 8.6    |
| 77.5° | 6.5    |
| 80°   | 4.3    |
| 82.5° | 2.2    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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