

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: P585166

Luminaire Tested: **HCC8S60D010BZ-HM86080935-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S60D010BZ-HM86080935-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

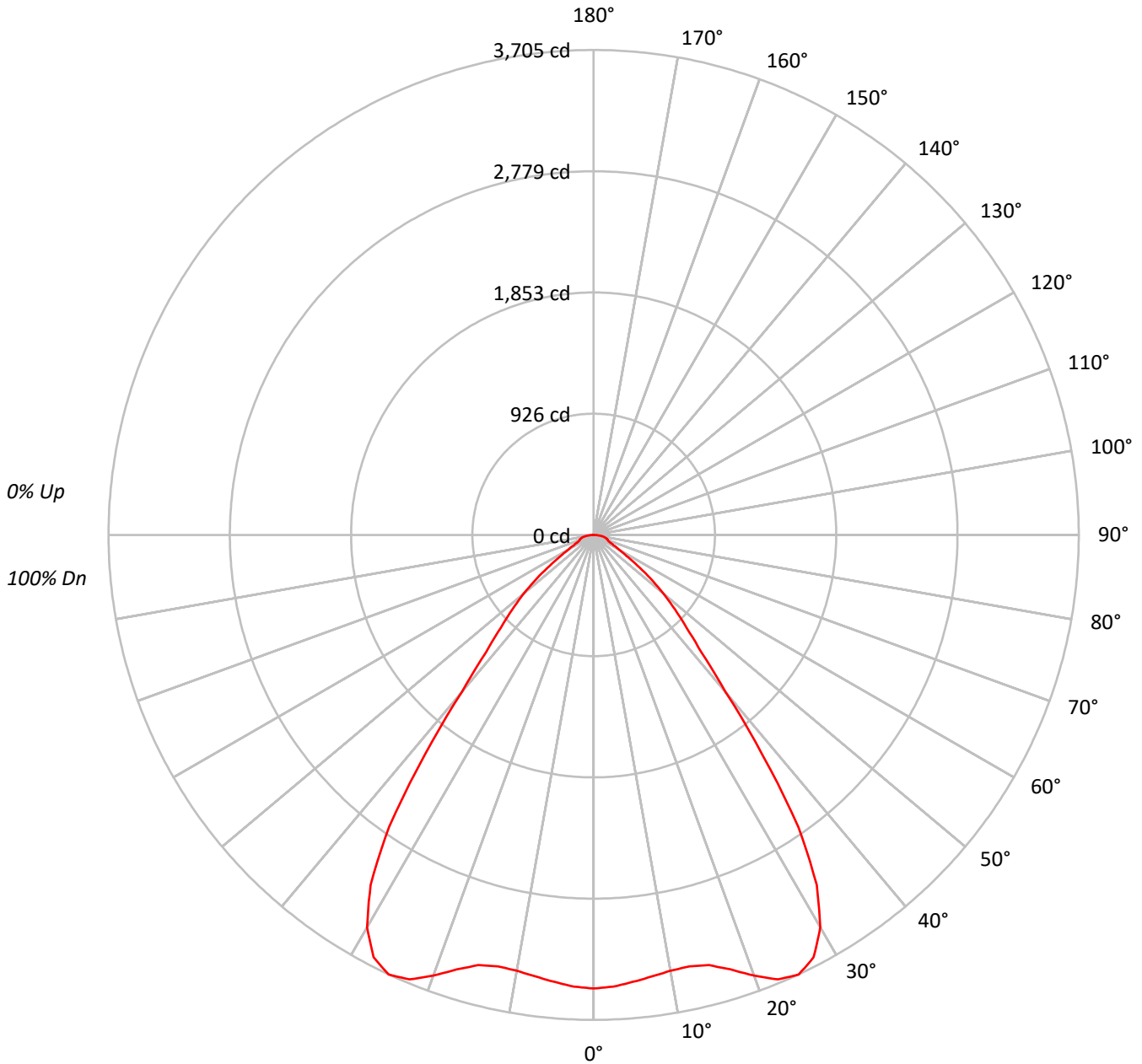
Lumens per Lamp: N/A  
Luminaire Lumens: 6083.9 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 56  
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 |    |    |    |   |
| 1   | 112 | 108 | 105 | 103 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 97  | 95  | 95  | 93  | 92  | 90  |    |    |    |   |
| 2   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 88  | 93  | 90  | 86  | 90  | 87  | 84  | 88  | 85  | 83  | 81  |    |    |    |   |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 77  | 74  | 73  |    |    |    |   |
| 4   | 92  | 82  | 75  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |    |    |    |   |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |    |   |
| 6   | 80  | 69  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |    |   |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 55  | 51  | 49  |    |    |    |   |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 58  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 45  |    |    |    |   |
| 9   | 67  | 55  | 48  | 43  | 65  | 55  | 48  | 43  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  |    |    |    |   |
| 10  | 63  | 51  | 45  | 40  | 62  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 48  | 43  | 40  | 38  |    |    |    |   |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 106845 |
| 5°  | 106111 |
| 10° | 105835 |
| 15° | 108612 |
| 20° | 117584 |
| 25° | 126063 |
| 30° | 123242 |
| 35° | 102626 |
| 40° | 63046  |
| 45° | 43653  |
| 50° | 33317  |
| 55° | 21843  |
| 60° | 13673  |
| 65° | 10244  |
| 70° | 10323  |
| 75° | 11890  |
| 80° | 13123  |
| 85° | 11746  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 325.7  | 5.4       |
| 10°-20°   | 976.7  | 16.1      |
| 20°-30°   | 1681.3 | 27.6      |
| 30°-40°   | 1628.9 | 26.8      |
| 40°-50°   | 802.3  | 13.2      |
| 50°-60°   | 378.6  | 6.2       |
| 60°-70°   | 149.2  | 2.5       |
| 70°-80°   | 103.0  | 1.7       |
| 80°-90°   | 38.2   | 0.6       |
| 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°    | 2983.7 | 49.0      |
| 0°-40°    | 4612.6 | 75.8      |
| 0°-60°    | 5793.5 | 95.2      |
| 0°-90°    | 6083.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6083.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3465 |      |
| 5°  | 3428 | 326  |
| 15° | 3402 | 977  |
| 25° | 3705 | 1681 |
| 35° | 2726 | 1629 |
| 45° | 1001 | 802  |
| 55° | 406  | 379  |
| 65° | 140  | 149  |
| 75° | 100  | 103  |
| 85° | 33   | 38   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3464.9 |
| 2.5°  | 3453.9 |
| 5°    | 3428.0 |
| 7.5°  | 3402.2 |
| 10°   | 3380.0 |
| 12.5° | 3376.3 |
| 15°   | 3402.2 |
| 17.5° | 3479.8 |
| 20°   | 3583.2 |
| 22.5° | 3675.5 |
| 25°   | 3705.1 |
| 27.5° | 3638.6 |
| 30°   | 3461.2 |
| 32.5° | 3169.4 |
| 35°   | 2726.2 |
| 37.5° | 2116.7 |
| 40°   | 1566.2 |
| 42.5° | 1215.3 |
| 45°   | 1001.0 |
| 47.5° | 842.2  |
| 50°   | 694.5  |
| 52.5° | 546.7  |
| 55°   | 406.3  |
| 57.5° | 295.5  |
| 60°   | 221.7  |
| 62.5° | 173.6  |
| 65°   | 140.4  |
| 67.5° | 121.9  |
| 70°   | 114.5  |
| 72.5° | 107.2  |
| 75°   | 99.8   |
| 77.5° | 88.7   |
| 80°   | 73.9   |
| 82.5° | 55.4   |
| 85°   | 33.2   |
| 87.5° | 14.8   |
| 90°   | 0.0    |

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— 0°-180°

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