

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: P582425

Luminaire Tested: **HCC6S40D010BZ-HM63040827-61WDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S40D010BZ-HM63040827-61WDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

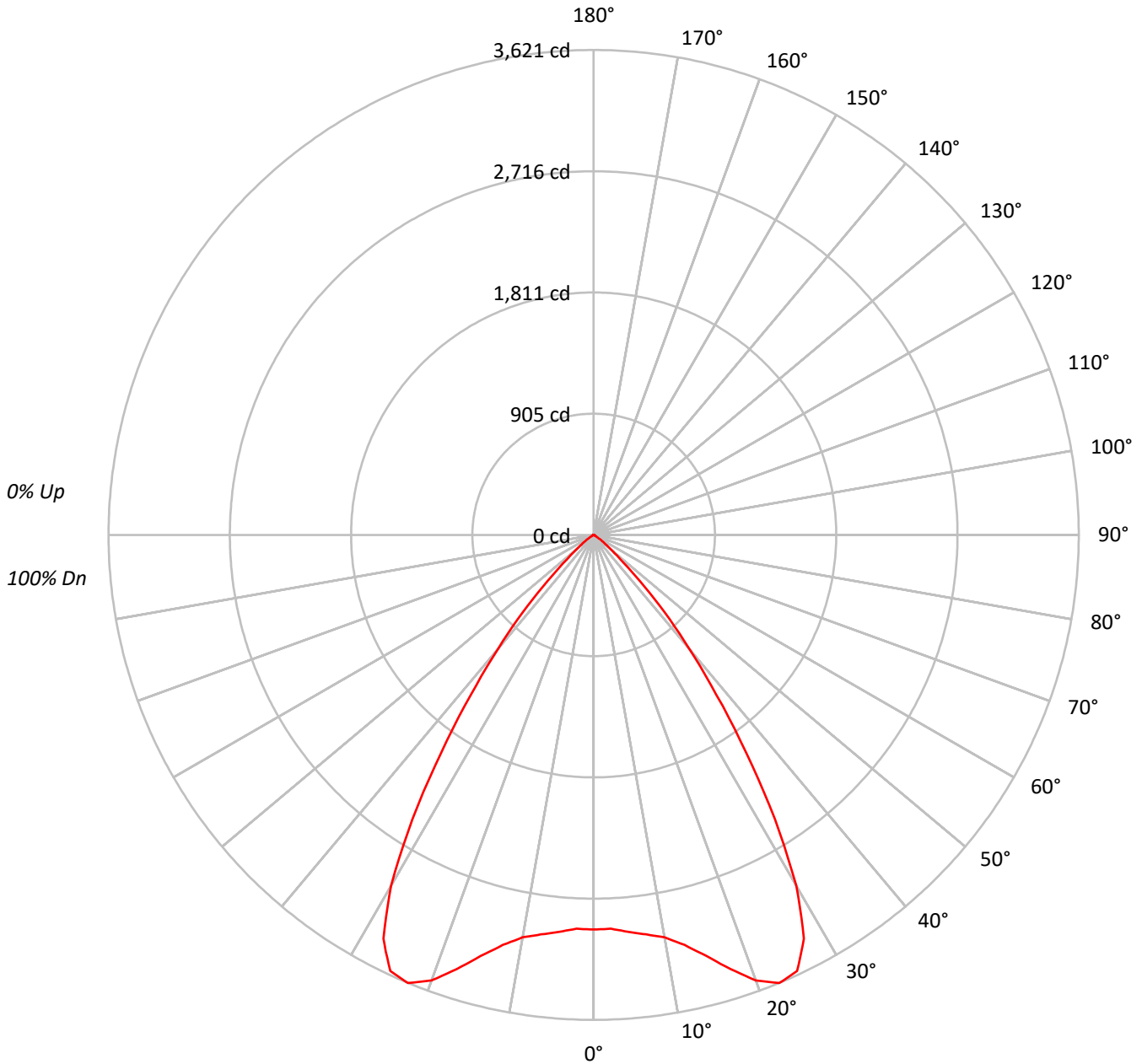
Lumens per Lamp: N/A  
Luminaire Lumens: 4555.8 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 |
| 1   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 103 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 96  | 94  | 93  | 93  |
| 2   | 107 | 102 | 97  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  | 94  | 91  | 89  | 91  | 89  | 87  | 85  | 85  |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 82  | 88  | 84  | 81  | 85  | 82  | 80  | 78  | 78  |
| 4   | 95  | 87  | 81  | 77  | 93  | 86  | 80  | 76  | 84  | 79  | 75  | 82  | 78  | 74  | 80  | 76  | 74  | 72  | 72  |
| 5   | 90  | 81  | 75  | 70  | 88  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 75  | 71  | 68  | 66  | 66  |
| 6   | 85  | 75  | 69  | 64  | 83  | 74  | 68  | 64  | 73  | 67  | 63  | 71  | 67  | 63  | 70  | 66  | 62  | 61  | 61  |
| 7   | 80  | 70  | 63  | 59  | 79  | 69  | 63  | 59  | 68  | 62  | 58  | 67  | 62  | 58  | 66  | 61  | 58  | 56  | 56  |
| 8   | 76  | 65  | 59  | 54  | 74  | 65  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 54  | 61  | 57  | 53  | 52  | 52  |
| 9   | 71  | 61  | 55  | 50  | 70  | 60  | 54  | 50  | 60  | 54  | 50  | 59  | 53  | 50  | 58  | 53  | 50  | 48  | 48  |
| 10  | 68  | 57  | 51  | 47  | 67  | 57  | 51  | 47  | 56  | 50  | 46  | 55  | 50  | 46  | 54  | 50  | 46  | 45  | 45  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 161517 |
| 5°  | 163685 |
| 10° | 169825 |
| 15° | 184683 |
| 20° | 206489 |
| 25° | 217337 |
| 30° | 191327 |
| 35° | 132708 |
| 40° | 79241  |
| 45° | 37671  |
| 50° | 14217  |
| 55° | 5935   |
| 60° | 1853   |
| 65° | 1466   |
| 70° | 914    |
| 75° | 593    |
| 80° | 884    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 286.3  | 6.3       |
| 10°-20°   | 934.4  | 20.5      |
| 20°-30°   | 1601.2 | 35.1      |
| 30°-40°   | 1243.5 | 27.3      |
| 40°-50°   | 411.1  | 9.0       |
| 50°-60°   | 63.0   | 1.4       |
| 60°-70°   | 11.1   | 0.2       |
| 70°-80°   | 4.1    | 0.1       |
| 80°-90°   | 1.1    | 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°    | 2821.9 | 61.9      |
| 0°-40°    | 4065.3 | 89.2      |
| 0°-60°    | 4539.5 | 99.6      |
| 0°-90°    | 4555.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4555.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2946 |      |
| 5°  | 2974 | 286  |
| 15° | 3254 | 934  |
| 25° | 3593 | 1601 |
| 35° | 1983 | 1243 |
| 45° | 486  | 411  |
| 55° | 62   | 63   |
| 65° | 11   | 11   |
| 75° | 3    | 4    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2946.3 |
| 2.5°  | 2943.5 |
| 5°    | 2974.5 |
| 7.5°  | 3008.4 |
| 10°   | 3050.8 |
| 12.5° | 3135.5 |
| 15°   | 3254.1 |
| 17.5° | 3398.3 |
| 20°   | 3539.5 |
| 22.5° | 3621.4 |
| 25°   | 3593.1 |
| 27.5° | 3398.3 |
| 30°   | 3022.5 |
| 32.5° | 2516.9 |
| 35°   | 1983.0 |
| 37.5° | 1505.6 |
| 40°   | 1107.3 |
| 42.5° | 782.4  |
| 45°   | 485.9  |
| 47.5° | 271.2  |
| 50°   | 166.7  |
| 52.5° | 101.7  |
| 55°   | 62.1   |
| 57.5° | 31.1   |
| 60°   | 16.9   |
| 62.5° | 14.1   |
| 65°   | 11.3   |
| 67.5° | 8.4    |
| 70°   | 5.7    |
| 72.5° | 5.7    |
| 75°   | 2.8    |
| 77.5° | 2.8    |
| 80°   | 2.8    |
| 82.5° | 2.8    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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