

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: P593271

Luminaire Tested: **HCC6S40D010BZ-HM63040850-61NDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S40D010BZ-HM63040850-61NDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

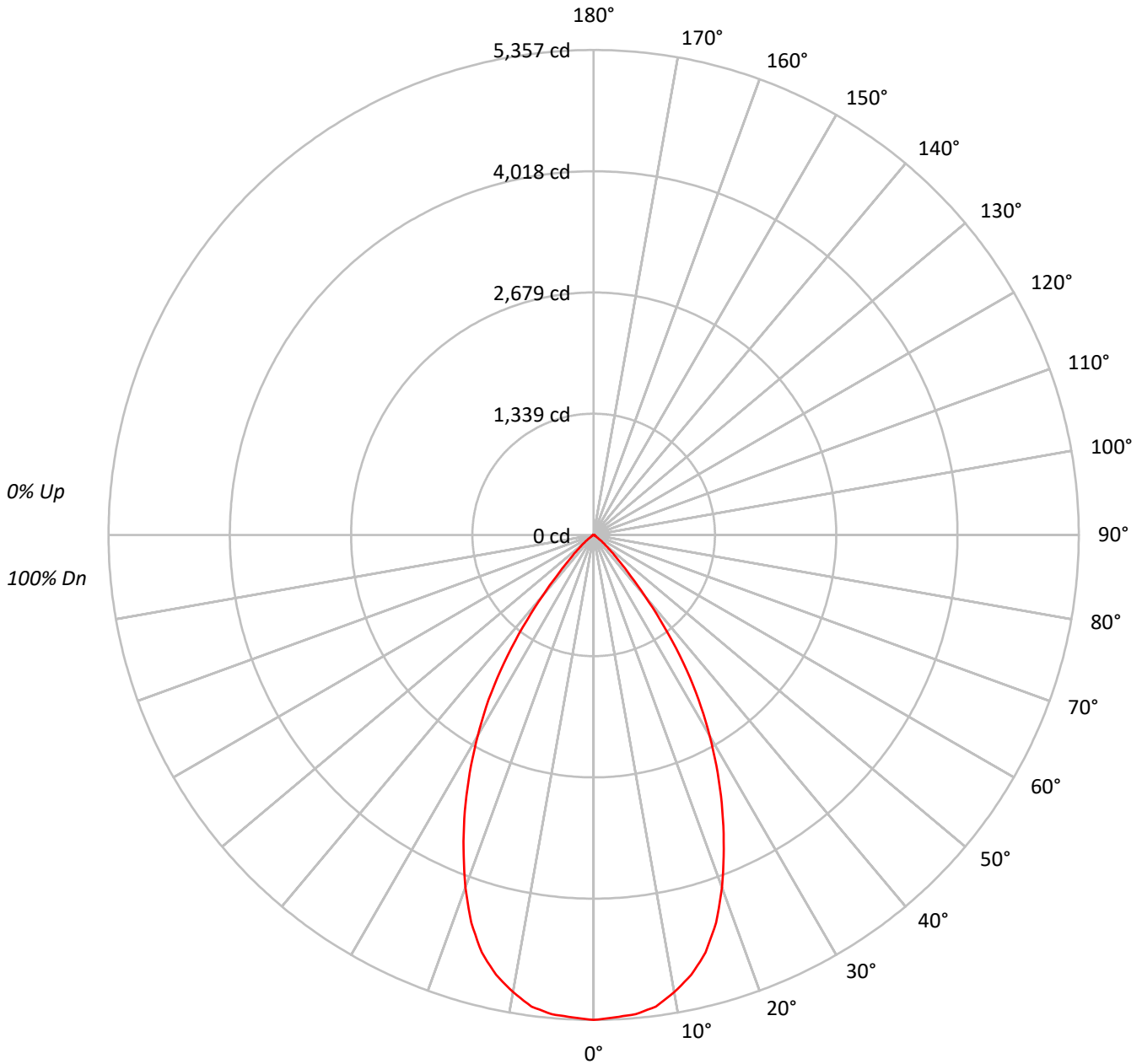
Lumens per Lamp: N/A  
Luminaire Lumens: 4797.3 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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  | 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 |    |    | 100 |   |
| 1   | 113 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |    |    | 93  |   |
| 2   | 108 | 103 | 99  | 96  | 106 | 101 | 98  | 94  | 98  | 95  | 92  | 95  | 93  | 90  | 92  | 90  | 89  | 87  |    |    | 87  |   |
| 3   | 102 | 96  | 91  | 87  | 100 | 95  | 90  | 86  | 92  | 88  | 85  | 90  | 86  | 84  | 87  | 85  | 82  | 81  |    |    | 81  |   |
| 4   | 97  | 90  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 78  | 84  | 81  | 78  | 82  | 79  | 77  | 75  |    |    | 75  |   |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 77  | 73  | 81  | 76  | 73  | 79  | 75  | 72  | 78  | 74  | 71  | 70  |    |    | 70  |   |
| 6   | 88  | 79  | 73  | 68  | 86  | 78  | 72  | 68  | 76  | 71  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 65  |    |    | 65  |   |
| 7   | 83  | 74  | 68  | 64  | 82  | 73  | 67  | 63  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 62  | 61  |    |    | 61  |   |
| 8   | 79  | 70  | 64  | 59  | 78  | 69  | 63  | 59  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 59  | 57  |    |    | 57  |   |
| 9   | 75  | 66  | 60  | 56  | 74  | 65  | 59  | 56  | 64  | 59  | 55  | 63  | 59  | 55  | 62  | 58  | 55  | 54  |    |    | 54  |   |
| 10  | 72  | 62  | 56  | 52  | 71  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 59  | 55  | 52  | 51  |    |    | 51  |   |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 293672 |
| 5°  | 292427 |
| 10° | 285505 |
| 15° | 271017 |
| 20° | 241574 |
| 25° | 203492 |
| 30° | 162120 |
| 35° | 115670 |
| 40° | 62195  |
| 45° | 26646  |
| 50° | 12119  |
| 55° | 4425   |
| 60° | 2171   |
| 65° | 1712   |
| 70° | 1587   |
| 75° | 699    |
| 80° | 1042   |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 501.6  | 10.5      |
| 10°-20°   | 1323.7 | 27.6      |
| 20°-30°   | 1533.1 | 32.0      |
| 30°-40°   | 1060.1 | 22.1      |
| 40°-50°   | 306.1  | 6.4       |
| 50°-60°   | 52.7   | 1.1       |
| 60°-70°   | 13.4   | 0.3       |
| 70°-80°   | 5.2    | 0.1       |
| 80°-90°   | 1.3    | 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°    | 3358.4 | 70.0      |
| 0°-40°    | 4418.5 | 92.1      |
| 0°-60°    | 4777.3 | 99.6      |
| 0°-90°    | 4797.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4797.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5357 |      |
| 5°  | 5314 | 502  |
| 15° | 4775 | 1324 |
| 25° | 3364 | 1533 |
| 35° | 1728 | 1060 |
| 45° | 344  | 306  |
| 55° | 46   | 53   |
| 65° | 13   | 13   |
| 75° | 3    | 5    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 5357.0 |
| 2.5°  | 5333.8 |
| 5°    | 5314.0 |
| 7.5°  | 5254.5 |
| 10°   | 5128.9 |
| 12.5° | 4976.9 |
| 15°   | 4775.3 |
| 17.5° | 4491.1 |
| 20°   | 4140.9 |
| 22.5° | 3754.1 |
| 25°   | 3364.2 |
| 27.5° | 2964.3 |
| 30°   | 2561.1 |
| 32.5° | 2158.0 |
| 35°   | 1728.4 |
| 37.5° | 1282.2 |
| 40°   | 869.1  |
| 42.5° | 548.6  |
| 45°   | 343.7  |
| 47.5° | 221.5  |
| 50°   | 142.1  |
| 52.5° | 85.9   |
| 55°   | 46.3   |
| 57.5° | 26.4   |
| 60°   | 19.8   |
| 62.5° | 16.5   |
| 65°   | 13.2   |
| 67.5° | 9.9    |
| 70°   | 9.9    |
| 72.5° | 6.6    |
| 75°   | 3.3    |
| 77.5° | 3.3    |
| 80°   | 3.3    |
| 82.5° | 3.3    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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