

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: P582551

Luminaire Tested: **HCC6S40D010MB-HM63040940-61WDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582551  
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: HCC6S40D010MB-HM63040940-61WDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

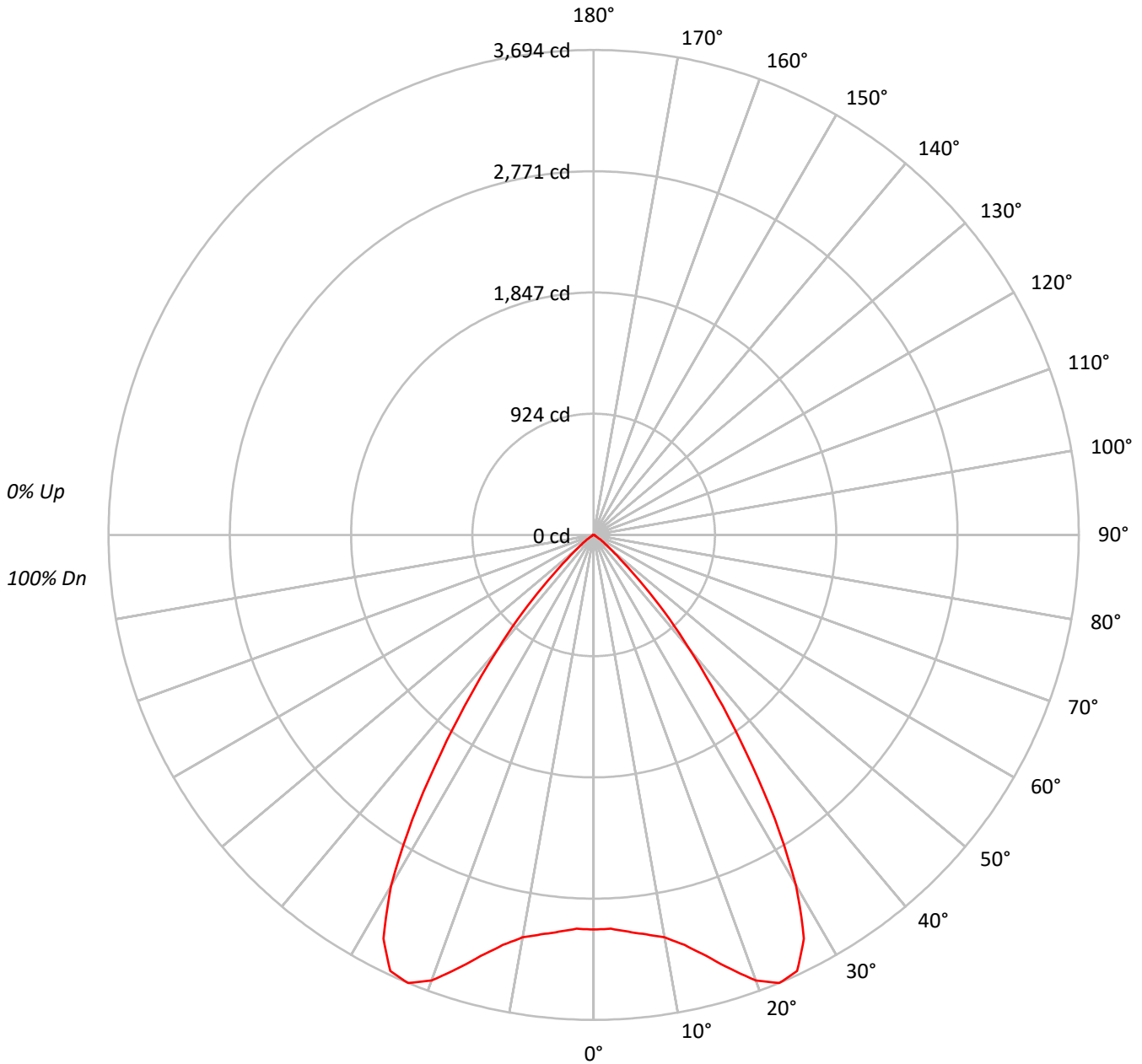
Lumens per Lamp: N/A  
Luminaire Lumens: 4647.3 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 164751 |
| 5°  | 166971 |
| 10° | 173227 |
| 15° | 188389 |
| 20° | 210631 |
| 25° | 221698 |
| 30° | 195169 |
| 35° | 135372 |
| 40° | 80837  |
| 45° | 38415  |
| 50° | 14498  |
| 55° | 6060   |
| 60° | 1897   |
| 65° | 1492   |
| 70° | 930    |
| 75° | 614    |
| 80° | 916    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 292.0  | 6.3       |
| 10°-20°   | 953.2  | 20.5      |
| 20°-30°   | 1633.3 | 35.1      |
| 30°-40°   | 1268.4 | 27.3      |
| 40°-50°   | 419.3  | 9.0       |
| 50°-60°   | 64.3   | 1.4       |
| 60°-70°   | 11.4   | 0.2       |
| 70°-80°   | 4.2    | 0.1       |
| 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°    | 2878.5 | 61.9      |
| 0°-40°    | 4146.9 | 89.2      |
| 0°-60°    | 4630.5 | 99.6      |
| 0°-90°    | 4647.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4647.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3005 |      |
| 5°  | 3034 | 292  |
| 15° | 3319 | 953  |
| 25° | 3665 | 1633 |
| 35° | 2023 | 1268 |
| 45° | 496  | 419  |
| 55° | 63   | 64   |
| 65° | 12   | 11   |
| 75° | 3    | 4    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3005.3 |
| 2.5°  | 3002.4 |
| 5°    | 3034.2 |
| 7.5°  | 3068.8 |
| 10°   | 3111.9 |
| 12.5° | 3198.4 |
| 15°   | 3319.4 |
| 17.5° | 3466.5 |
| 20°   | 3610.5 |
| 22.5° | 3694.0 |
| 25°   | 3665.2 |
| 27.5° | 3466.5 |
| 30°   | 3083.2 |
| 32.5° | 2567.4 |
| 35°   | 2022.8 |
| 37.5° | 1535.8 |
| 40°   | 1129.6 |
| 42.5° | 798.1  |
| 45°   | 495.5  |
| 47.5° | 276.6  |
| 50°   | 170.0  |
| 52.5° | 103.7  |
| 55°   | 63.4   |
| 57.5° | 31.7   |
| 60°   | 17.3   |
| 62.5° | 14.4   |
| 65°   | 11.5   |
| 67.5° | 8.7    |
| 70°   | 5.8    |
| 72.5° | 5.8    |
| 75°   | 2.9    |
| 77.5° | 2.9    |
| 80°   | 2.9    |
| 82.5° | 2.9    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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