

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: P592605

Luminaire Tested: **HCC4S10D010SL-HM40525850-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S10D010SL-HM40525850-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

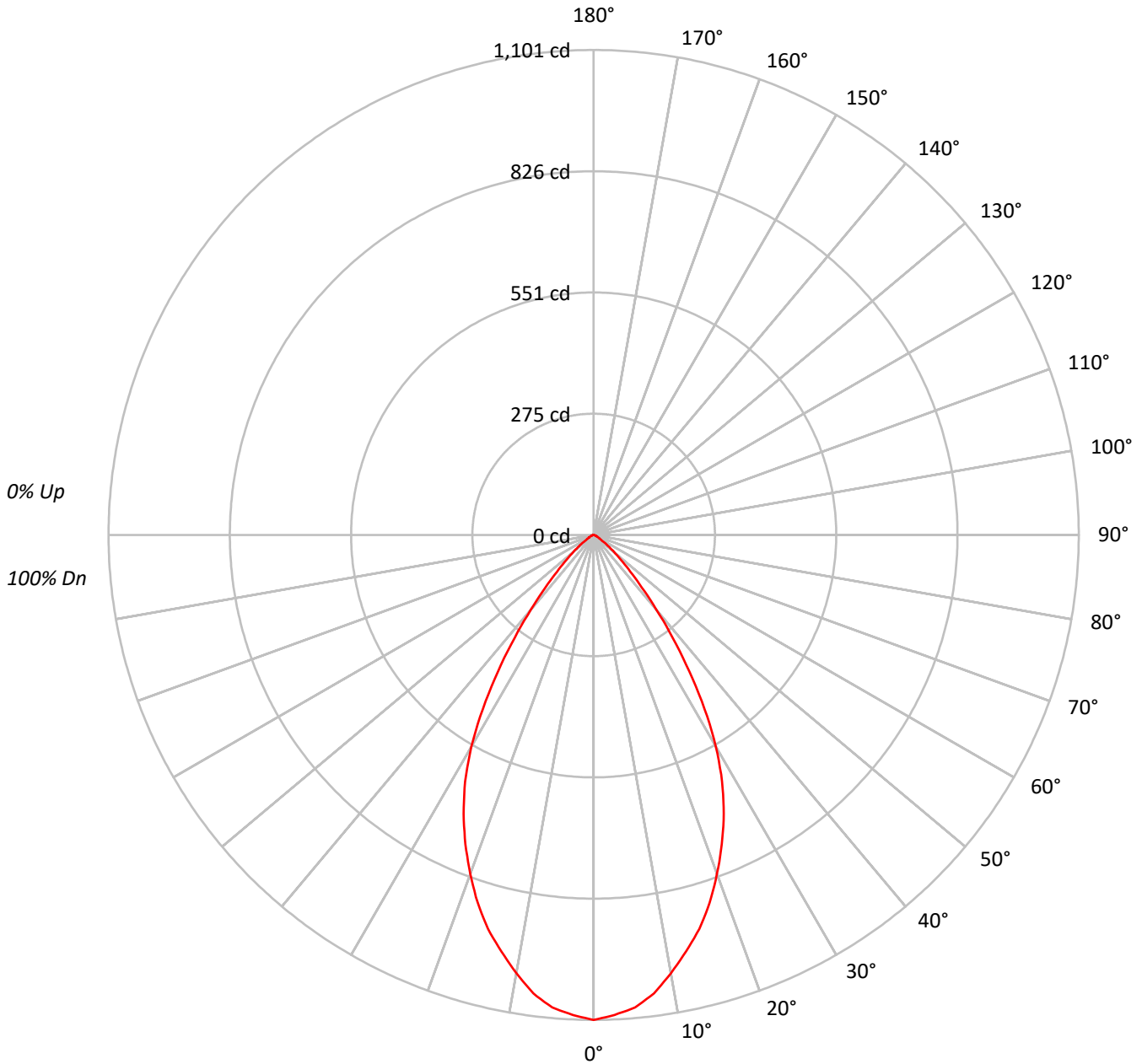
Lumens per Lamp: N/A  
Luminaire Lumens: 1047.3 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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 | 104 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 96  | 95  | 93  | 93  | 93  | 93  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  | 94  | 91  | 89  | 91  | 89  | 87  | 86  | 86  | 86  | 86  |
| 3   | 101 | 95  | 89  | 85  | 99  | 93  | 88  | 84  | 91  | 86  | 83  | 88  | 85  | 82  | 86  | 83  | 80  | 79  | 79  | 79  | 79  |
| 4   | 96  | 88  | 82  | 78  | 94  | 87  | 81  | 77  | 85  | 80  | 76  | 82  | 79  | 75  | 81  | 77  | 74  | 73  | 73  | 73  | 73  |
| 5   | 91  | 82  | 76  | 71  | 89  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 67  | 67  | 67  | 67  |
| 6   | 86  | 76  | 70  | 66  | 84  | 76  | 70  | 65  | 74  | 69  | 65  | 73  | 68  | 64  | 71  | 67  | 64  | 63  | 63  | 63  | 63  |
| 7   | 81  | 72  | 65  | 61  | 80  | 71  | 65  | 61  | 70  | 64  | 60  | 68  | 64  | 60  | 67  | 63  | 60  | 58  | 58  | 58  | 58  |
| 8   | 77  | 67  | 61  | 57  | 76  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 63  | 59  | 56  | 54  | 54  | 54  | 54  |
| 9   | 73  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 51  | 51  | 51  | 51  |
| 10  | 70  | 59  | 53  | 49  | 69  | 59  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 57  | 52  | 49  | 48  | 48  | 48  | 48  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 135828 |
| 5°  | 133363 |
| 10° | 126501 |
| 15° | 118273 |
| 20° | 107411 |
| 25° | 95064  |
| 30° | 79061  |
| 35° | 57009  |
| 40° | 35585  |
| 45° | 20531  |
| 50° | 11571  |
| 55° | 5505   |
| 60° | 3182   |
| 65° | 2422   |
| 70° | 1659   |
| 75° | 1096   |
| 80° | 1065   |
| 85° | 1132   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.7  | 9.6       |
| 10°-20°   | 258.4  | 24.7      |
| 20°-30°   | 317.8  | 30.3      |
| 30°-40°   | 236.0  | 22.5      |
| 40°-50°   | 95.9   | 9.2       |
| 50°-60°   | 26.6   | 2.5       |
| 60°-70°   | 8.3    | 0.8       |
| 70°-80°   | 2.8    | 0.3       |
| 80°-90°   | 0.9    | 0.1       |
| 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°    | 676.9  | 64.6      |
| 0°-40°    | 912.9  | 87.2      |
| 0°-60°    | 1035.4 | 98.9      |
| 0°-90°    | 1047.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1047.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1101 |      |
| 5°  | 1077 | 101  |
| 15° | 926  | 258  |
| 25° | 698  | 318  |
| 35° | 379  | 236  |
| 45° | 118  | 96   |
| 55° | 26   | 27   |
| 65° | 8    | 8    |
| 75° | 2    | 3    |
| 85° | 1    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1101.2 |
| 2.5°  | 1090.7 |
| 5°    | 1077.1 |
| 7.5°  | 1049.9 |
| 10°   | 1010.0 |
| 12.5° | 968.4  |
| 15°   | 926.2  |
| 17.5° | 875.7  |
| 20°   | 818.3  |
| 22.5° | 760.3  |
| 25°   | 698.5  |
| 27.5° | 631.4  |
| 30°   | 555.1  |
| 32.5° | 468.4  |
| 35°   | 378.6  |
| 37.5° | 294.2  |
| 40°   | 221.0  |
| 42.5° | 161.4  |
| 45°   | 117.7  |
| 47.5° | 84.4   |
| 50°   | 60.3   |
| 52.5° | 41.5   |
| 55°   | 25.6   |
| 57.5° | 16.6   |
| 60°   | 12.9   |
| 62.5° | 10.6   |
| 65°   | 8.3    |
| 67.5° | 6.0    |
| 70°   | 4.6    |
| 72.5° | 3.8    |
| 75°   | 2.3    |
| 77.5° | 1.5    |
| 80°   | 1.5    |
| 82.5° | 0.8    |
| 85°   | 0.8    |
| 87.5° | 0.8    |
| 90°   | 0.0    |

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— 0°-180°

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