

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: P584067

Luminaire Tested: **HCC8S20D010MB-HM80520935-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584067  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S20D010MB-HM80520935-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

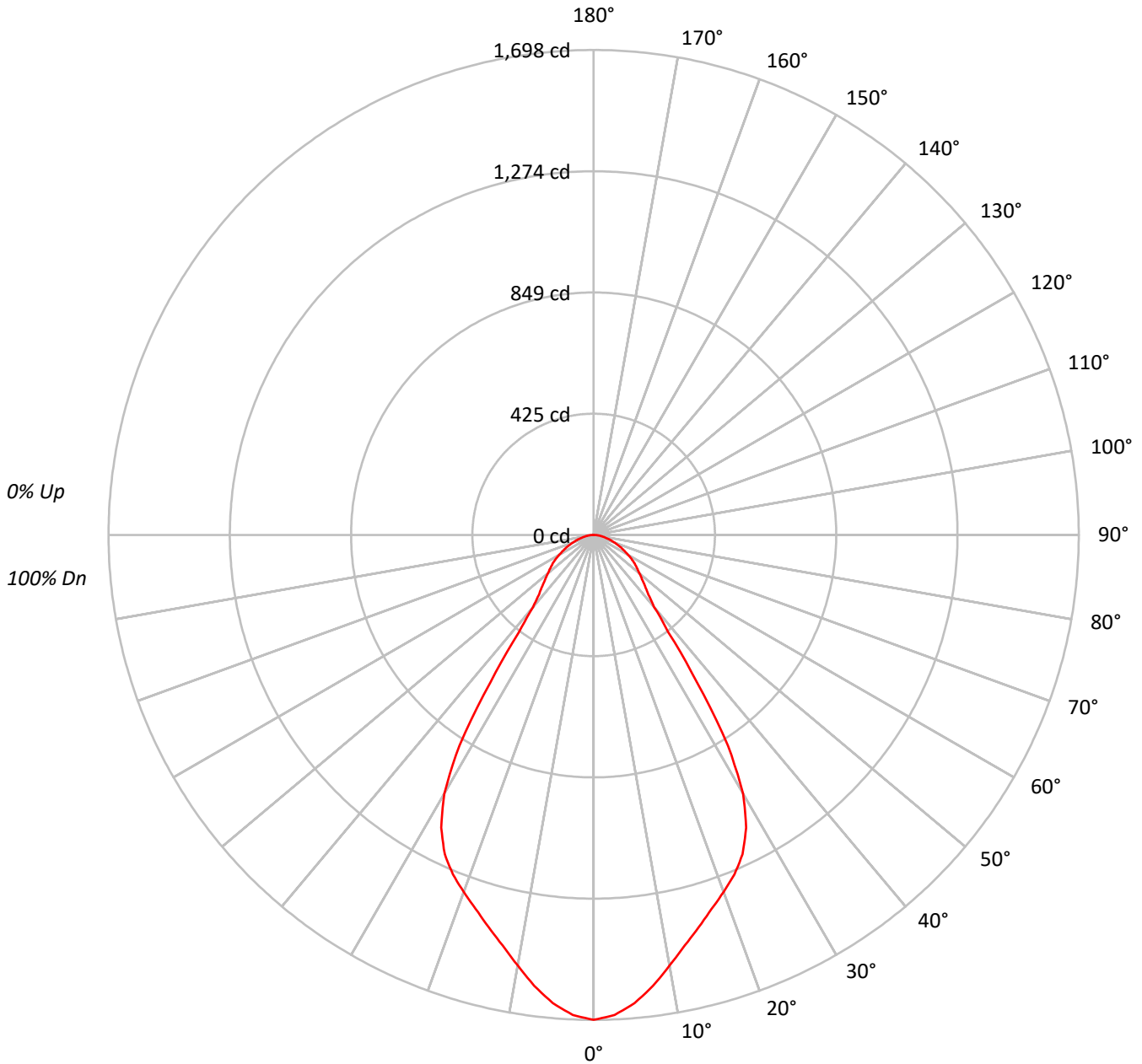
Lumens per Lamp: N/A  
Luminaire Lumens: 2047.4 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 92  | 90  |    |    | 90  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  | 80  |    |    | 80  |
| 3   | 98  | 89  | 83  | 78  | 95  | 88  | 82  | 78  | 85  | 80  | 76  | 83  | 78  | 75  | 80  | 77  | 74  | 72  |    |    | 72  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 69  | 76  | 72  | 68  | 74  | 70  | 67  | 65  |    |    | 65  |
| 5   | 86  | 76  | 68  | 63  | 84  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    | 59  |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 61  | 56  | 64  | 60  | 56  | 54  |    |    | 54  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 62  | 56  | 52  | 60  | 55  | 52  | 50  |    |    | 50  |
| 8   | 72  | 61  | 54  | 49  | 70  | 60  | 53  | 49  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 46  |    |    | 46  |
| 9   | 68  | 57  | 50  | 45  | 67  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 53  | 48  | 45  | 43  |    |    | 43  |
| 10  | 64  | 53  | 46  | 42  | 63  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 42  | 40  |    |    | 40  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 52351 |
| 5°  | 50926 |
| 10° | 47923 |
| 15° | 45371 |
| 20° | 43644 |
| 25° | 41959 |
| 30° | 37262 |
| 35° | 23735 |
| 40° | 13248 |
| 45° | 11094 |
| 50° | 10012 |
| 55° | 9435  |
| 60° | 8609  |
| 65° | 7771  |
| 70° | 6852  |
| 75° | 6100  |
| 80° | 5398  |
| 85° | 4883  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.4  | 7.5       |
| 10°-20°   | 400.8  | 19.6      |
| 20°-30°   | 559.2  | 27.3      |
| 30°-40°   | 402.4  | 19.7      |
| 40°-50°   | 199.4  | 9.7       |
| 50°-60°   | 156.0  | 7.6       |
| 60°-70°   | 105.6  | 5.2       |
| 70°-80°   | 54.9   | 2.7       |
| 80°-90°   | 15.8   | 0.8       |
| 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°    | 1113.4 | 54.4      |
| 0°-40°    | 1515.7 | 74.0      |
| 0°-60°    | 1871.1 | 91.4      |
| 0°-90°    | 2047.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2047.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1698 |      |
| 5°  | 1645 | 153  |
| 15° | 1421 | 401  |
| 25° | 1233 | 559  |
| 35° | 630  | 402  |
| 45° | 254  | 199  |
| 55° | 176  | 156  |
| 65° | 106  | 106  |
| 75° | 51   | 55   |
| 85° | 14   | 16   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1697.7 |
| 2.5°  | 1682.5 |
| 5°    | 1645.2 |
| 7.5°  | 1592.6 |
| 10°   | 1530.5 |
| 12.5° | 1472.4 |
| 15°   | 1421.2 |
| 17.5° | 1372.8 |
| 20°   | 1330.0 |
| 22.5° | 1287.1 |
| 25°   | 1233.2 |
| 27.5° | 1155.8 |
| 30°   | 1046.5 |
| 32.5° | 875.2  |
| 35°   | 630.5  |
| 37.5° | 430.0  |
| 40°   | 329.1  |
| 42.5° | 283.4  |
| 45°   | 254.4  |
| 47.5° | 229.5  |
| 50°   | 208.7  |
| 52.5° | 190.8  |
| 55°   | 175.5  |
| 57.5° | 157.6  |
| 60°   | 139.6  |
| 62.5° | 121.6  |
| 65°   | 106.5  |
| 67.5° | 91.3   |
| 70°   | 76.0   |
| 72.5° | 63.6   |
| 75°   | 51.2   |
| 77.5° | 40.1   |
| 80°   | 30.4   |
| 82.5° | 22.1   |
| 85°   | 13.8   |
| 87.5° | 6.9    |
| 90°   | 0.0    |

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— 0°-180°

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