

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: P583798

Luminaire Tested: **HCC8S10D010MB-HM80520935-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S10D010MB-HM80520935-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

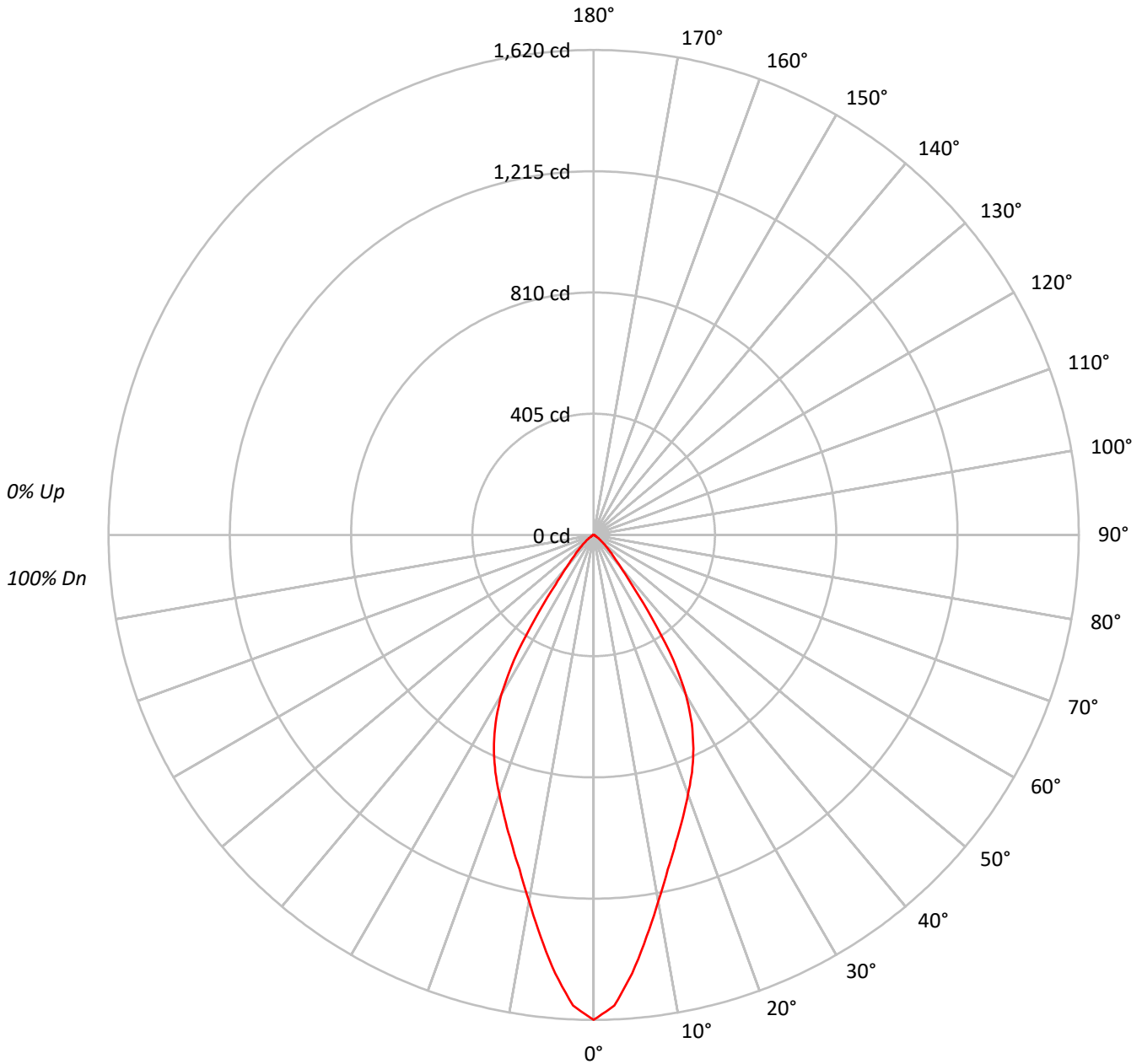
Lumens per Lamp: N/A  
Luminaire Lumens: 1092.2 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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 |    |    |   |
| 1   | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 94  |    |    |   |
| 2   | 108 | 103 | 99  | 96  | 106 | 101 | 98  | 95  | 98  | 95  | 93  | 95  | 93  | 91  | 92  | 91  | 89  | 87  |    |    |   |
| 3   | 103 | 96  | 91  | 87  | 101 | 95  | 90  | 87  | 92  | 88  | 85  | 90  | 87  | 84  | 88  | 85  | 83  | 81  |    |    |   |
| 4   | 97  | 90  | 85  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 76  |    |    |   |
| 5   | 93  | 84  | 79  | 74  | 91  | 83  | 78  | 74  | 82  | 77  | 73  | 80  | 76  | 73  | 78  | 75  | 72  | 71  |    |    |   |
| 6   | 88  | 79  | 73  | 69  | 87  | 78  | 73  | 69  | 77  | 72  | 68  | 76  | 71  | 68  | 74  | 70  | 67  | 66  |    |    |   |
| 7   | 84  | 75  | 69  | 65  | 82  | 74  | 68  | 64  | 73  | 68  | 64  | 71  | 67  | 64  | 70  | 66  | 63  | 62  |    |    |   |
| 8   | 80  | 70  | 64  | 60  | 79  | 70  | 64  | 60  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 58  |    |    |   |
| 9   | 76  | 67  | 61  | 57  | 75  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 56  | 63  | 59  | 56  | 55  |    |    |   |
| 10  | 73  | 63  | 57  | 54  | 72  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 52  |    |    |   |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 49952 |
| 5°  | 45518 |
| 10° | 38893 |
| 15° | 33916 |
| 20° | 30229 |
| 25° | 26818 |
| 30° | 21955 |
| 35° | 12607 |
| 40° | 5595  |
| 45° | 3253  |
| 50° | 1881  |
| 55° | 1075  |
| 60° | 592   |
| 65° | 379   |
| 70° | 270   |
| 75° | 167   |
| 80° | 124   |
| 85° | 248   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.1  | 12.2      |
| 10°-20°   | 298.6  | 27.3      |
| 20°-30°   | 357.5  | 32.7      |
| 30°-40°   | 216.3  | 19.8      |
| 40°-50°   | 60.6   | 5.5       |
| 50°-60°   | 18.8   | 1.7       |
| 60°-70°   | 5.4    | 0.5       |
| 70°-80°   | 1.4    | 0.1       |
| 80°-90°   | 0.5    | 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°    | 789.2  | 72.3      |
| 0°-40°    | 1005.5 | 92.1      |
| 0°-60°    | 1084.9 | 99.3      |
| 0°-90°    | 1092.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1092.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1620 |      |
| 5°  | 1470 | 133  |
| 15° | 1062 | 299  |
| 25° | 788  | 357  |
| 35° | 335  | 216  |
| 45° | 75   | 61   |
| 55° | 20   | 19   |
| 65° | 5    | 5    |
| 75° | 1    | 1    |
| 85° | 1    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1619.9 |
| 2.5°  | 1574.0 |
| 5°    | 1470.5 |
| 7.5°  | 1353.7 |
| 10°   | 1242.1 |
| 12.5° | 1144.5 |
| 15°   | 1062.4 |
| 17.5° | 990.0  |
| 20°   | 921.2  |
| 22.5° | 857.6  |
| 25°   | 788.2  |
| 27.5° | 709.8  |
| 30°   | 616.6  |
| 32.5° | 496.1  |
| 35°   | 334.9  |
| 37.5° | 208.5  |
| 40°   | 139.0  |
| 42.5° | 99.8   |
| 45°   | 74.6   |
| 47.5° | 54.7   |
| 50°   | 39.2   |
| 52.5° | 27.4   |
| 55°   | 20.0   |
| 57.5° | 13.3   |
| 60°   | 9.6    |
| 62.5° | 6.6    |
| 65°   | 5.2    |
| 67.5° | 3.7    |
| 70°   | 3.0    |
| 72.5° | 1.4    |
| 75°   | 1.4    |
| 77.5° | 0.7    |
| 80°   | 0.7    |
| 82.5° | 0.7    |
| 85°   | 0.7    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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