

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: P585311

Luminaire Tested: **HCC8W80D010MB-HM86080940-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W80D010MB-HM86080940-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

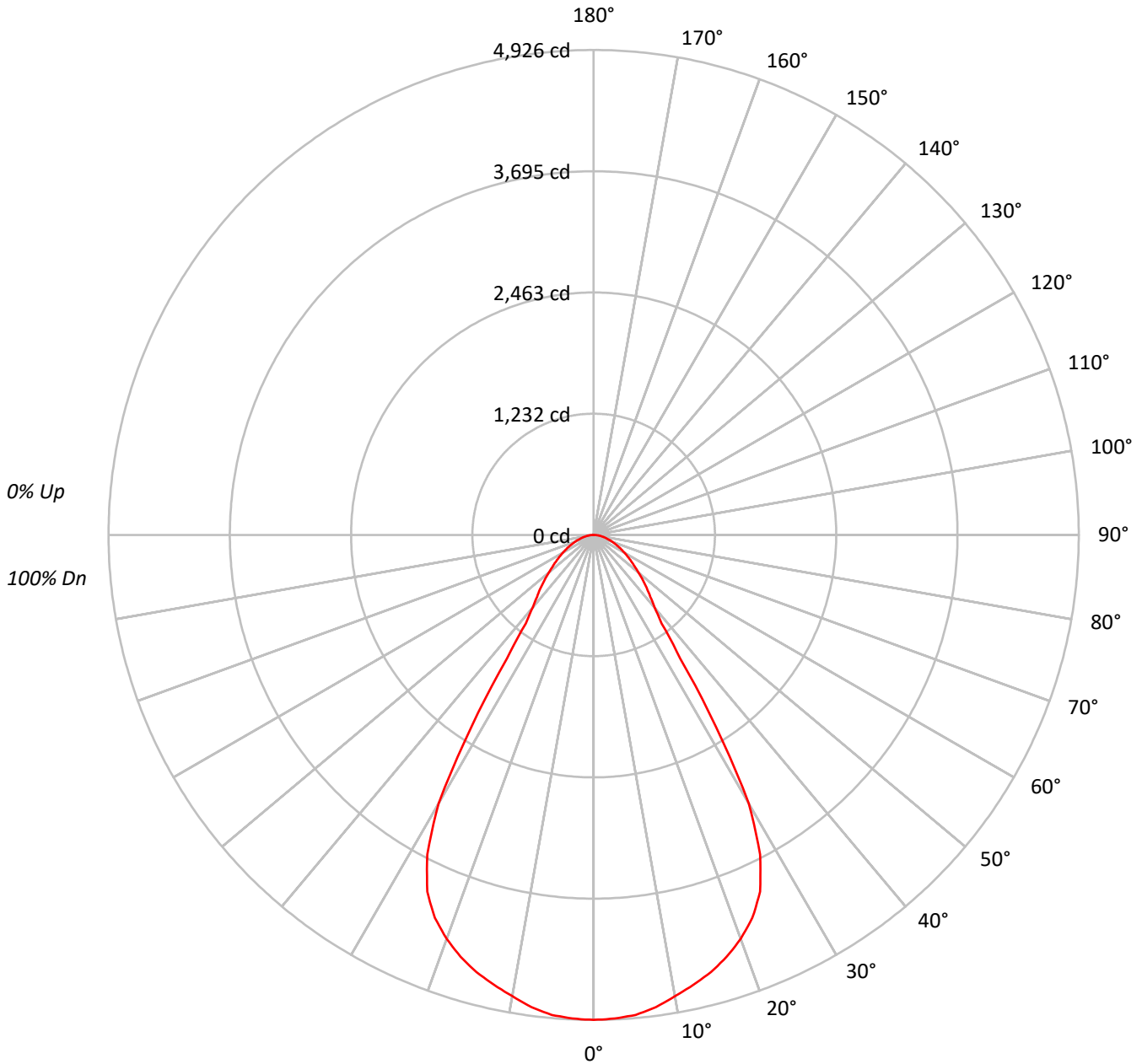
Lumens per Lamp: N/A  
Luminaire Lumens: 6094.0 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): 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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |    |    |   |
| 2   | 105 | 99  | 94  | 90  | 102 | 97  | 92  | 88  | 94  | 90  | 87  | 91  | 87  | 85  | 88  | 85  | 83  | 81  |    |    |   |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |   |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 75  | 72  | 68  | 67  |    |    |   |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 64  | 74  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 63  | 61  |    |    |   |
| 6   | 82  | 71  | 64  | 59  | 80  | 70  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 66  | 61  | 58  | 56  |    |    |   |
| 7   | 77  | 66  | 59  | 54  | 76  | 66  | 59  | 54  | 64  | 58  | 54  | 63  | 58  | 54  | 62  | 57  | 53  | 52  |    |    |   |
| 8   | 73  | 62  | 55  | 50  | 71  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |    |    |   |
| 9   | 69  | 58  | 51  | 47  | 68  | 57  | 51  | 47  | 56  | 51  | 46  | 55  | 50  | 46  | 55  | 50  | 46  | 45  |    |    |   |
| 10  | 65  | 55  | 48  | 44  | 64  | 54  | 48  | 44  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 47  | 43  | 42  |    |    |   |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 151900 |
| 5°  | 151496 |
| 10° | 148967 |
| 15° | 146793 |
| 20° | 143272 |
| 25° | 136001 |
| 30° | 112179 |
| 35° | 57757  |
| 40° | 38668  |
| 45° | 33152  |
| 50° | 28611  |
| 55° | 24967  |
| 60° | 22184  |
| 65° | 19927  |
| 70° | 18059  |
| 75° | 16275  |
| 80° | 14544  |
| 85° | 14506  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 462.7  | 7.6       |
| 10°-20°   | 1293.7 | 21.2      |
| 20°-30°   | 1792.5 | 29.4      |
| 30°-40°   | 1076.7 | 17.7      |
| 40°-50°   | 589.4  | 9.7       |
| 50°-60°   | 418.7  | 6.9       |
| 60°-70°   | 271.8  | 4.5       |
| 70°-80°   | 145.2  | 2.4       |
| 80°-90°   | 43.4   | 0.7       |
| 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°    | 3548.9 | 58.2      |
| 0°-40°    | 4625.6 | 75.9      |
| 0°-60°    | 5633.6 | 92.4      |
| 0°-90°    | 6094.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6094.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4926 |      |
| 5°  | 4894 | 463  |
| 15° | 4598 | 1294 |
| 25° | 3997 | 1792 |
| 35° | 1534 | 1077 |
| 45° | 760  | 589  |
| 55° | 464  | 419  |
| 65° | 273  | 272  |
| 75° | 137  | 145  |
| 85° | 41   | 43   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 4926.0 |
| 2.5°  | 4916.9 |
| 5°    | 4894.2 |
| 7.5°  | 4839.5 |
| 10°   | 4757.5 |
| 12.5° | 4680.1 |
| 15°   | 4598.2 |
| 17.5° | 4493.5 |
| 20°   | 4366.0 |
| 22.5° | 4211.2 |
| 25°   | 3997.2 |
| 27.5° | 3660.3 |
| 30°   | 3150.5 |
| 32.5° | 2308.2 |
| 35°   | 1534.3 |
| 37.5° | 1133.6 |
| 40°   | 960.6  |
| 42.5° | 851.3  |
| 45°   | 760.2  |
| 47.5° | 673.8  |
| 50°   | 596.4  |
| 52.5° | 523.5  |
| 55°   | 464.4  |
| 57.5° | 409.7  |
| 60°   | 359.7  |
| 62.5° | 314.1  |
| 65°   | 273.1  |
| 67.5° | 232.2  |
| 70°   | 200.3  |
| 72.5° | 163.8  |
| 75°   | 136.6  |
| 77.5° | 109.3  |
| 80°   | 81.9   |
| 82.5° | 59.2   |
| 85°   | 41.0   |
| 87.5° | 18.2   |
| 90°   | 0.0    |

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— 0°-180°

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