

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: P585217

Luminaire Tested: **HCC8S80D010SL-HM86080830-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585217  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S80D010SL-HM86080830-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

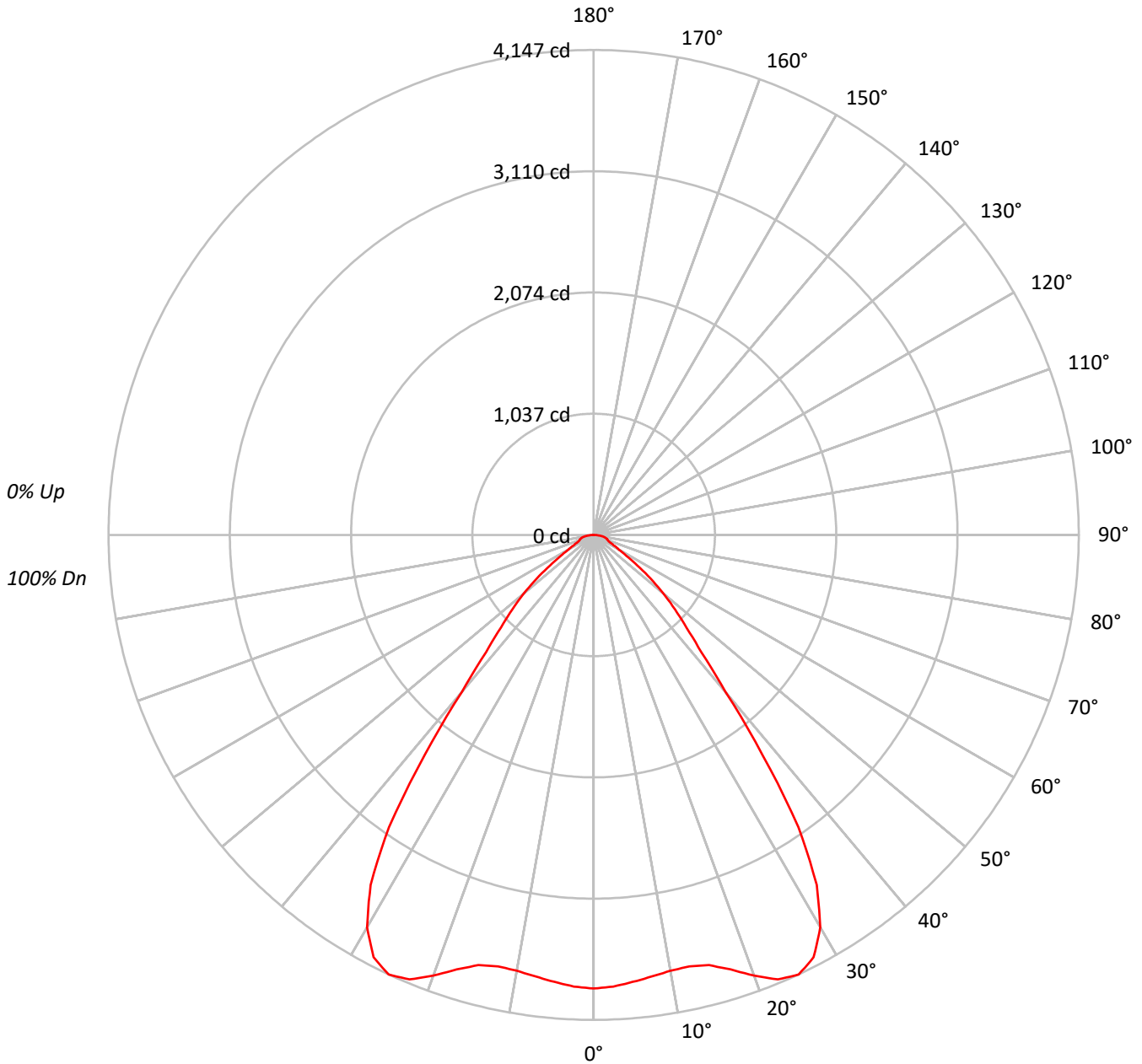
Lumens per Lamp: N/A  
Luminaire Lumens: 6809.5 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
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  | 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 | 103 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 97  | 95  | 95  | 93  | 92  | 90  |
| 2   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 88  | 93  | 90  | 86  | 90  | 87  | 84  | 88  | 85  | 83  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 77  | 74  | 73  |
| 4   | 92  | 82  | 75  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |
| 6   | 80  | 69  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 55  | 51  | 49  |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 58  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 45  |
| 9   | 67  | 55  | 48  | 43  | 65  | 55  | 48  | 43  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  |
| 10  | 63  | 51  | 45  | 40  | 62  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 48  | 43  | 40  | 38  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 119592 |
| 5°  | 118768 |
| 10° | 118460 |
| 15° | 121567 |
| 20° | 131609 |
| 25° | 141098 |
| 30° | 137944 |
| 35° | 114864 |
| 40° | 70569  |
| 45° | 48864  |
| 50° | 37294  |
| 55° | 24451  |
| 60° | 15295  |
| 65° | 11463  |
| 70° | 11558  |
| 75° | 13296  |
| 80° | 14668  |
| 85° | 13162  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 364.6  | 5.4       |
| 10°-20°   | 1093.1 | 16.1      |
| 20°-30°   | 1881.8 | 27.6      |
| 30°-40°   | 1823.2 | 26.8      |
| 40°-50°   | 898.0  | 13.2      |
| 50°-60°   | 423.8  | 6.2       |
| 60°-70°   | 167.0  | 2.5       |
| 70°-80°   | 115.2  | 1.7       |
| 80°-90°   | 42.7   | 0.6       |
| 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°    | 3339.6 | 49.0      |
| 0°-40°    | 5162.8 | 75.8      |
| 0°-60°    | 6484.6 | 95.2      |
| 0°-90°    | 6809.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6809.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3878 |      |
| 5°  | 3837 | 365  |
| 15° | 3808 | 1093 |
| 25° | 4147 | 1882 |
| 35° | 3051 | 1823 |
| 45° | 1120 | 898  |
| 55° | 455  | 424  |
| 65° | 157  | 167  |
| 75° | 112  | 115  |
| 85° | 37   | 43   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3878.3 |
| 2.5°  | 3865.9 |
| 5°    | 3836.9 |
| 7.5°  | 3808.0 |
| 10°   | 3783.2 |
| 12.5° | 3779.0 |
| 15°   | 3808.0 |
| 17.5° | 3894.8 |
| 20°   | 4010.6 |
| 22.5° | 4113.9 |
| 25°   | 4147.0 |
| 27.5° | 4072.6 |
| 30°   | 3874.1 |
| 32.5° | 3547.5 |
| 35°   | 3051.3 |
| 37.5° | 2369.1 |
| 40°   | 1753.1 |
| 42.5° | 1360.3 |
| 45°   | 1120.5 |
| 47.5° | 942.6  |
| 50°   | 777.4  |
| 52.5° | 612.0  |
| 55°   | 454.8  |
| 57.5° | 330.8  |
| 60°   | 248.0  |
| 62.5° | 194.3  |
| 65°   | 157.1  |
| 67.5° | 136.5  |
| 70°   | 128.2  |
| 72.5° | 119.9  |
| 75°   | 111.6  |
| 77.5° | 99.3   |
| 80°   | 82.6   |
| 82.5° | 62.1   |
| 85°   | 37.2   |
| 87.5° | 16.5   |
| 90°   | 0.0    |

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— 0°-180°

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