

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: P593913

Luminaire Tested: **HCC8W80D010SL-HM86080950-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593913  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W80D010SL-HM86080950-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

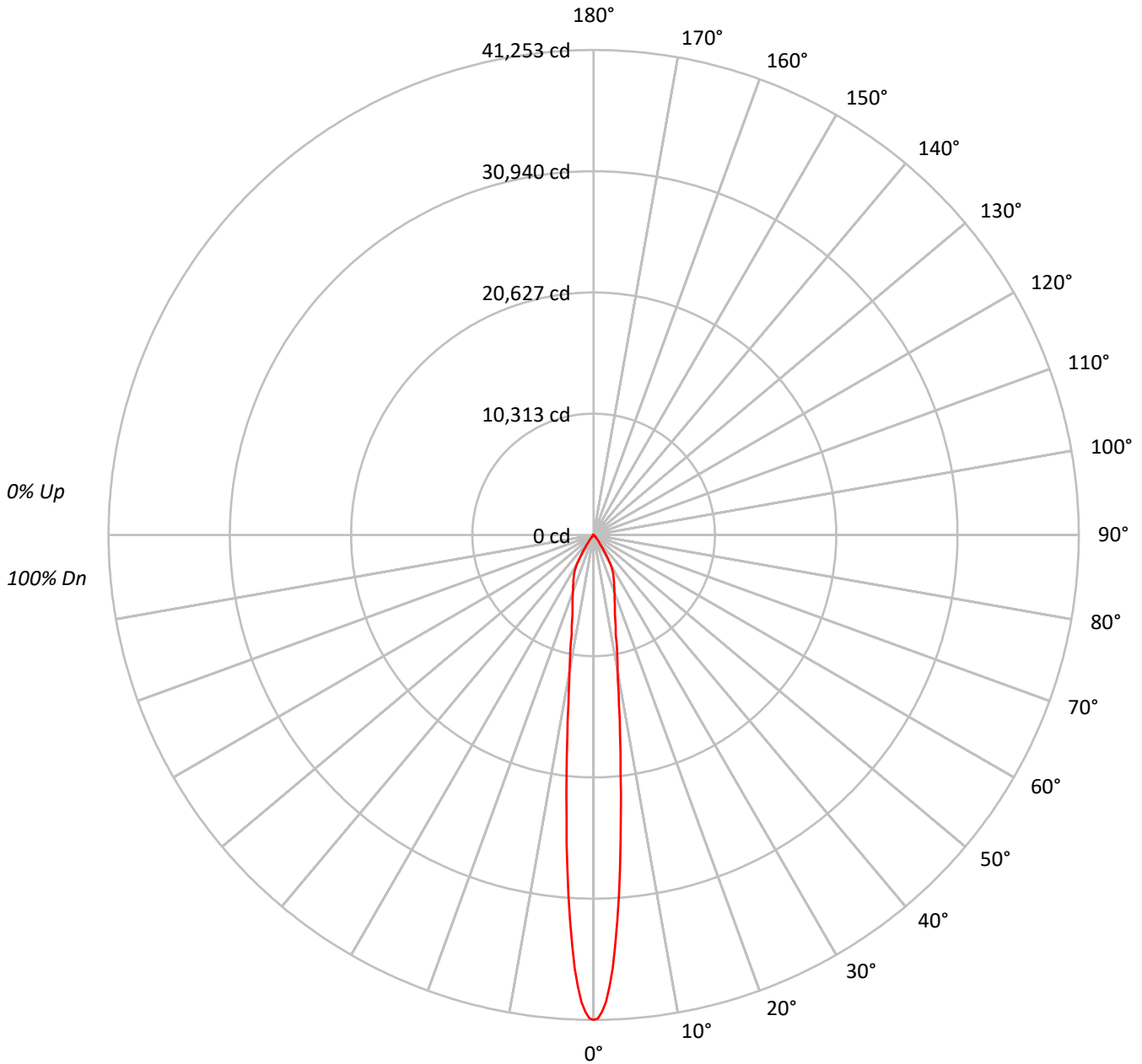
Lumens per Lamp: N/A  
Luminaire Lumens: 6758.4 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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  | 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   | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 95 | 94 | 93 | 92 | 91 | 90 | 89 | 88 | 87 | 86 | 85 | 84 | 83 | 82 | 81 | 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 |  |  |  |  |  |  |  |
| 2   | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99  | 101 | 99  | 97  | 98  | 96  | 95  | 96  | 94  | 93  | 91  | 90 | 89 | 88 | 87 | 86 | 85 | 84 | 83 | 82 | 81 | 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 |    |    |    |    |    |  |  |  |  |  |  |  |
| 3   | 106 | 101 | 97  | 93  | 104 | 99  | 96  | 93  | 97  | 94  | 91  | 95  | 92  | 90  | 92  | 90  | 89  | 87  | 86 | 85 | 84 | 83 | 82 | 81 | 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| 4   | 102 | 96  | 91  | 88  | 100 | 95  | 91  | 88  | 93  | 89  | 87  | 91  | 88  | 86  | 89  | 87  | 85  | 83  | 82 | 81 | 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| 5   | 98  | 92  | 87  | 83  | 97  | 91  | 86  | 83  | 89  | 85  | 82  | 87  | 84  | 82  | 86  | 83  | 81  | 80  | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| 6   | 95  | 88  | 83  | 79  | 93  | 87  | 82  | 79  | 86  | 82  | 79  | 84  | 81  | 78  | 83  | 80  | 78  | 76  | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 75  | 81  | 78  | 75  | 80  | 77  | 75  | 73  | 72 | 71 | 70 | 69 | 68 | 67 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 79  | 75  | 72  | 78  | 75  | 72  | 77  | 74  | 72  | 71  | 70 | 69 | 68 | 67 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 68  | 67 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| 10  | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 67  | 73  | 69  | 67  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1272097 |
| 5°  | 815950  |
| 10° | 368596  |
| 15° | 222402  |
| 20° | 169481  |
| 25° | 136862  |
| 30° | 100290  |
| 35° | 36312   |
| 40° | 13554   |
| 45° | 6149    |
| 50° | 1962    |
| 55° | 495     |
| 60° | 278     |
| 65° | 328     |
| 70° | 0       |
| 75° | 0       |
| 80° | 799     |
| 85° | 1592    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2010.4 | 29.7      |
| 10°-20°   | 2042.0 | 30.2      |
| 20°-30°   | 1828.0 | 27.0      |
| 30°-40°   | 736.3  | 10.9      |
| 40°-50°   | 120.7  | 1.8       |
| 50°-60°   | 11.0   | 0.2       |
| 60°-70°   | 3.9    | 0.1       |
| 70°-80°   | 3.0    | 0.0       |
| 80°-90°   | 4.3    | 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°    | 5880.4 | 87.0      |
| 0°-40°    | 6616.7 | 97.9      |
| 0°-60°    | 6748.4 | 99.9      |
| 0°-90°    | 6759.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6758.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 41253 |      |
| 5°  | 26360 | ###  |
| 15° | 6967  | 2042 |
| 25° | 4022  | 1828 |
| 35° | 965   | 736  |
| 45° | 141   | 121  |
| 55° | 9     | 11   |
| 65° | 4     | 4    |
| 75° | 0     | 3    |
| 85° | 4     | 4    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 41253.2 |
| 0.5°  | 41125.7 |
| 1°    | 40593.4 |
| 1.5°  | 39737.9 |
| 2°    | 38441.1 |
| 2.5°  | 36907.6 |
| 3°    | 34987.4 |
| 3.5°  | 32880.6 |
| 4°    | 30796.5 |
| 4.5°  | 28462.3 |
| 5°    | 26360.0 |
| 5.5°  | 24071.2 |
| 6°    | 22214.7 |
| 6.5°  | 20280.8 |
| 7°    | 18761.0 |
| 7.5°  | 17154.7 |
| 8°    | 15862.4 |
| 8.5°  | 14565.6 |
| 9°    | 13591.8 |
| 9.5°  | 12517.9 |
| 10°   | 11771.7 |
| 12.5° | 8682.0  |
| 15°   | 6966.6  |
| 17.5° | 5951.8  |
| 20°   | 5164.7  |
| 22.5° | 4536.6  |
| 25°   | 4022.5  |
| 27.5° | 3508.3  |
| 30°   | 2816.6  |
| 32.5° | 1811.1  |
| 35°   | 964.6   |
| 37.5° | 532.4   |
| 40°   | 336.7   |
| 42.5° | 222.9   |
| 45°   | 141.0   |
| 47.5° | 86.4    |
| 50°   | 40.9    |
| 52.5° | 13.7    |
| 55°   | 9.2     |
| 57.5° | 4.5     |
| 60°   | 4.5     |
| 62.5° | 4.5     |
| 65°   | 4.5     |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 72.5° | 0.0 |
| 75°   | 0.0 |
| 77.5° | 4.5 |
| 80°   | 4.5 |
| 82.5° | 4.5 |
| 85°   | 4.5 |
| 87.5° | 4.5 |
| 90°   | 0.0 |

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Report Generated By 670245859 / DESKTOP-T8S5UU9



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— 0°-180°

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|       |  |     |
|-------|--|-----|
| 67.5° |  | 4.5 |
| 70°   |  | 0.0 |

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(END OF REPORT)