

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: P581850

Luminaire Tested: **HCC6S20D010SL-HM60525827-61WDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581850  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S20D010SL-HM60525827-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

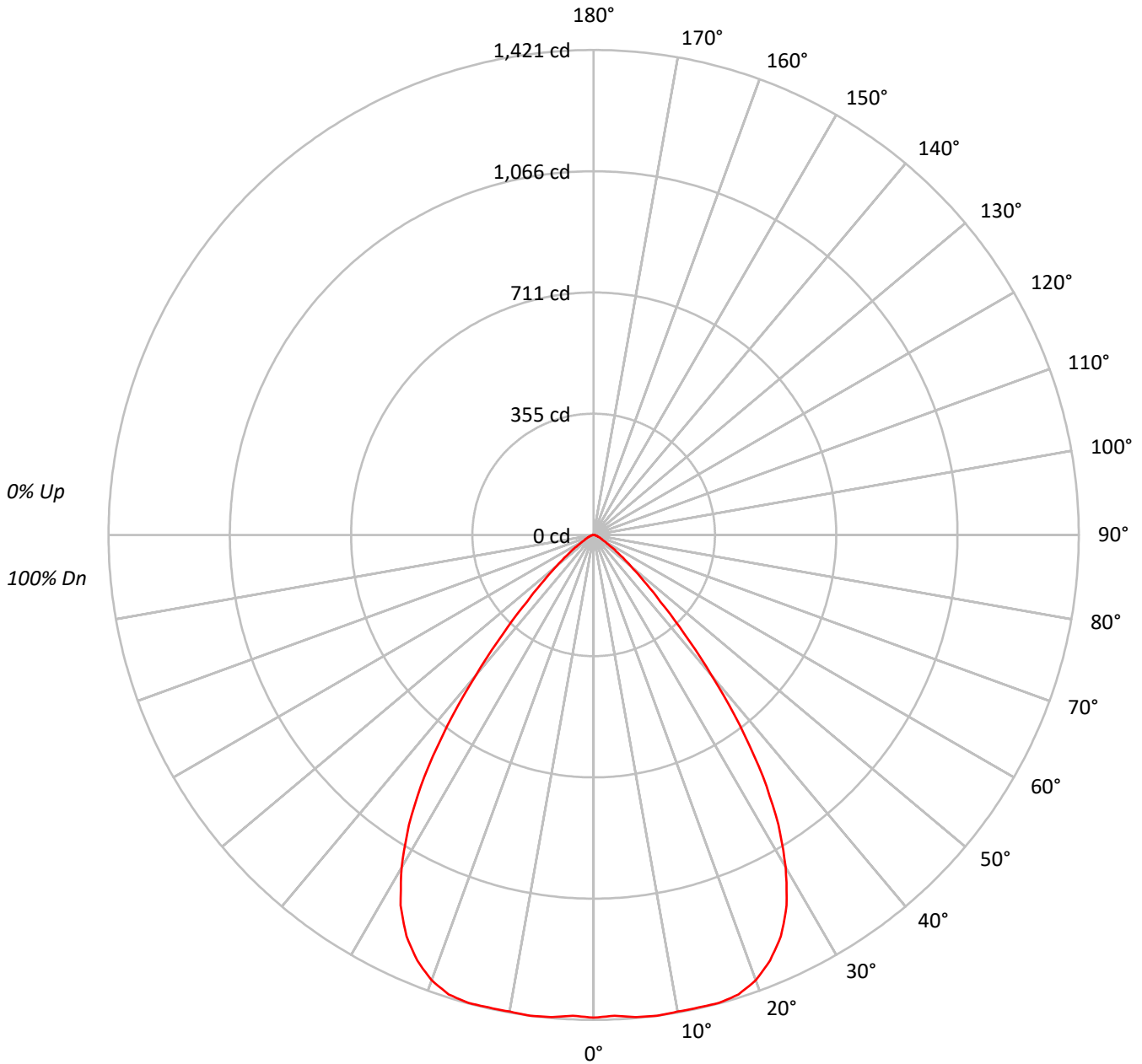
Lumens per Lamp: N/A  
Luminaire Lumens: 1979.7 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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 | 100 | 100 |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 103 | 101 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  | 92  | 92  | 92  |
| 2   | 106 | 101 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 92  | 90  | 93  | 90  | 88  | 90  | 88  | 86  | 84  | 84  | 84  | 84  |
| 3   | 100 | 93  | 87  | 83  | 98  | 91  | 86  | 82  | 89  | 84  | 81  | 86  | 83  | 80  | 84  | 81  | 78  | 77  | 77  | 77  | 77  |
| 4   | 94  | 86  | 79  | 75  | 92  | 85  | 79  | 74  | 82  | 77  | 73  | 80  | 76  | 72  | 78  | 75  | 72  | 70  | 70  | 70  | 70  |
| 5   | 89  | 79  | 73  | 68  | 87  | 78  | 72  | 68  | 76  | 71  | 67  | 75  | 70  | 66  | 73  | 69  | 66  | 64  | 64  | 64  | 64  |
| 6   | 83  | 73  | 67  | 62  | 82  | 73  | 66  | 62  | 71  | 65  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 59  | 59  | 59  | 59  |
| 7   | 79  | 68  | 62  | 57  | 77  | 68  | 61  | 57  | 66  | 60  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 54  | 54  | 54  | 54  |
| 8   | 74  | 64  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 51  | 50  | 50  | 50  | 50  |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 46  | 46  | 46  | 46  |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 49  | 45  | 53  | 48  | 45  | 53  | 48  | 44  | 43  | 43  | 43  | 43  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 77532 |
| 5°  | 78048 |
| 10° | 78951 |
| 15° | 80568 |
| 20° | 81020 |
| 25° | 78494 |
| 30° | 71213 |
| 35° | 57902 |
| 40° | 38429 |
| 45° | 21390 |
| 50° | 11991 |
| 55° | 6662  |
| 60° | 3673  |
| 65° | 2776  |
| 70° | 1923  |
| 75° | 1419  |
| 80° | 852   |
| 85° | 881   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 135.4  | 6.8       |
| 10°-20°   | 400.3  | 20.2      |
| 20°-30°   | 590.0  | 29.8      |
| 30°-40°   | 527.7  | 26.7      |
| 40°-50°   | 228.9  | 11.6      |
| 50°-60°   | 67.3   | 3.4       |
| 60°-70°   | 21.4   | 1.1       |
| 70°-80°   | 7.6    | 0.4       |
| 80°-90°   | 1.1    | 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°    | 1125.6 | 56.9      |
| 0°-40°    | 1653.3 | 83.5      |
| 0°-60°    | 1949.5 | 98.5      |
| 0°-90°    | 1979.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1979.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1414 |      |
| 5°  | 1418 | 135  |
| 15° | 1420 | 400  |
| 25° | 1298 | 590  |
| 35° | 865  | 528  |
| 45° | 276  | 229  |
| 55° | 70   | 67   |
| 65° | 21   | 21   |
| 75° | 7    | 8    |
| 85° | 1    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1414.3 |
| 2.5°  | 1410.2 |
| 5°    | 1418.3 |
| 7.5°  | 1421.0 |
| 10°   | 1418.3 |
| 12.5° | 1418.3 |
| 15°   | 1419.6 |
| 17.5° | 1411.6 |
| 20°   | 1388.8 |
| 22.5° | 1350.0 |
| 25°   | 1297.7 |
| 27.5° | 1224.1 |
| 30°   | 1125.0 |
| 32.5° | 1007.1 |
| 35°   | 865.2  |
| 37.5° | 703.1  |
| 40°   | 537.0  |
| 42.5° | 392.4  |
| 45°   | 275.9  |
| 47.5° | 196.9  |
| 50°   | 140.6  |
| 52.5° | 100.5  |
| 55°   | 69.7   |
| 57.5° | 46.9   |
| 60°   | 33.5   |
| 62.5° | 26.7   |
| 65°   | 21.4   |
| 67.5° | 16.1   |
| 70°   | 12.0   |
| 72.5° | 9.4    |
| 75°   | 6.7    |
| 77.5° | 5.3    |
| 80°   | 2.7    |
| 82.5° | 1.4    |
| 85°   | 1.4    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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