

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: P593119

Luminaire Tested: **HCC6S15D010SL-HM60525950-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S15D010SL-HM60525950-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

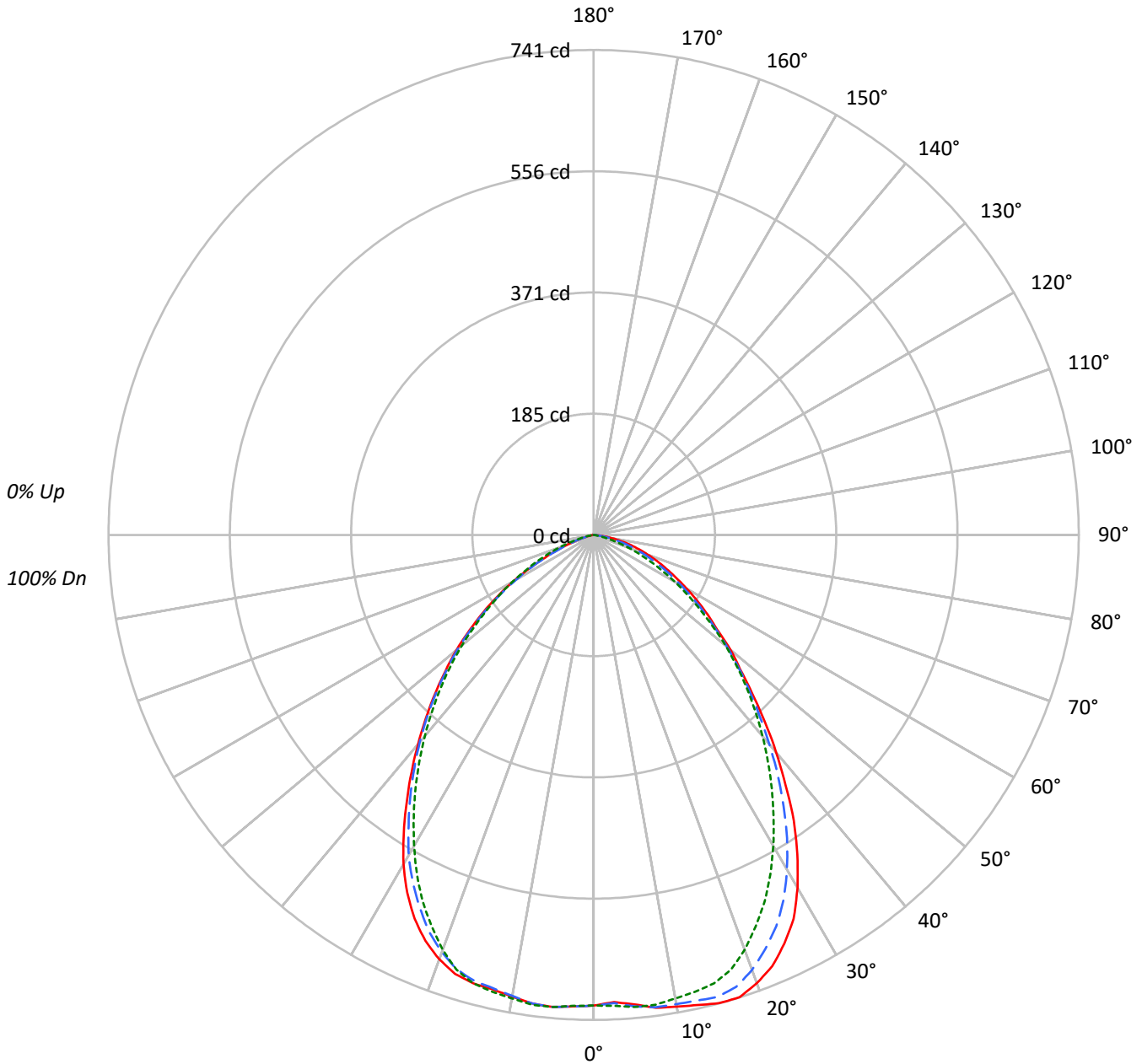
Lumens per Lamp: N/A  
Luminaire Lumens: 1451.8 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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  |     |     |    |    |    |    |    |   |  |   |
| 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 | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    |    |   |  |   |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 88  |    |    |    |    |    |   |  |   |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |    |    |   |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 69  | 68  |    |    |    |    |    |   |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 61  | 60  |    |    |    |    |    |   |  |   |
| 5   | 82  | 70  | 62  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |    |    |    |   |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 56  | 50  | 62  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |    |    |   |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 48  | 44  | 42  |    |    |    |    |    |   |  |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |    |    |    |   |  |   |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |    |    |    |   |  |   |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |    |    |    |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 39421 | 39421 | 39421 |
| 5°  | 39621 | 39841 | 39841 |
| 10° | 40731 | 40029 | 39868 |
| 15° | 42032 | 40261 | 40261 |
| 20° | 42517 | 39338 | 40248 |
| 25° | 41670 | 37369 | 39135 |
| 30° | 39417 | 34721 | 36765 |
| 35° | 35670 | 31755 | 33321 |
| 40° | 31030 | 28725 | 29842 |
| 45° | 26514 | 25607 | 26514 |
| 50° | 23274 | 22438 | 23351 |
| 55° | 20310 | 18905 | 19641 |
| 60° | 17948 | 15700 | 15492 |
| 65° | 15929 | 12388 | 10611 |
| 70° | 14057 | 8751  | 6411  |
| 75° | 11967 | 4956  | 3092  |
| 80° | 8934  | 1547  | 947   |
| 85° | 4906  | 629   | 629   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.0   | 4.8       |
| 10°-20°   | 201.8  | 13.9      |
| 20°-30°   | 294.8  | 20.3      |
| 30°-40°   | 309.1  | 21.3      |
| 40°-50°   | 260.4  | 17.9      |
| 50°-60°   | 182.5  | 12.6      |
| 60°-70°   | 97.8   | 6.7       |
| 70°-80°   | 32.8   | 2.3       |
| 80°-90°   | 3.6    | 0.2       |
| 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°    | 565.5  | 39.0      |
| 0°-40°    | 874.7  | 60.2      |
| 0°-60°    | 1317.6 | 90.8      |
| 0°-90°    | 1451.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1451.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 719 | 719 | 719 | 719  | 719  |      |
| 5°  | 720 | 723 | 724 | 724  | 724  | 69   |
| 15° | 741 | 731 | 709 | 705  | 709  | 209  |
| 25° | 689 | 660 | 618 | 628  | 647  | 316  |
| 35° | 533 | 506 | 474 | 488  | 498  | 331  |
| 45° | 342 | 336 | 330 | 339  | 342  | 266  |
| 55° | 212 | 206 | 198 | 202  | 206  | 191  |
| 65° | 123 | 112 | 96  | 79   | 82   | 123  |
| 75° | 56  | 44  | 23  | 15   | 15   | 60   |
| 85° | 8   | 4   | 1   | 1    | 1    | 11   |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 719.1 | 719.1 | 719.1 | 719.1 | 719.1 | 719.1  | 719.1 | 719.1  | 719.1 |
| 2.5°  | 714.3 | 714.3 | 716.2 | 718.1 | 720.0 | 720.0  | 721.1 | 722.0  | 721.1 |
| 5°    | 720.0 | 720.0 | 723.0 | 724.0 | 724.0 | 723.0  | 724.0 | 724.0  | 724.0 |
| 7.5°  | 728.8 | 726.9 | 727.9 | 725.9 | 724.0 | 723.0  | 722.0 | 722.0  | 722.0 |
| 10°   | 731.7 | 729.8 | 727.9 | 724.0 | 719.1 | 716.2  | 715.2 | 716.2  | 716.2 |
| 12.5° | 735.7 | 733.7 | 728.8 | 721.1 | 715.2 | 710.3  | 709.4 | 711.3  | 711.3 |
| 15°   | 740.6 | 738.5 | 730.8 | 718.1 | 709.4 | 704.5  | 705.4 | 707.4  | 709.4 |
| 17.5° | 740.6 | 736.6 | 724.0 | 707.4 | 696.7 | 691.8  | 695.8 | 700.6  | 703.5 |
| 20°   | 728.8 | 724.9 | 707.4 | 686.9 | 674.3 | 671.4  | 678.2 | 686.9  | 689.9 |
| 22.5° | 713.2 | 705.4 | 685.0 | 660.7 | 647.0 | 647.0  | 656.7 | 667.5  | 671.4 |
| 25°   | 688.9 | 683.0 | 659.7 | 631.4 | 617.8 | 616.8  | 628.4 | 643.1  | 647.0 |
| 27.5° | 661.6 | 653.8 | 628.4 | 599.3 | 584.6 | 585.7  | 598.3 | 612.9  | 616.8 |
| 30°   | 622.7 | 612.9 | 590.4 | 562.2 | 548.5 | 552.5  | 565.1 | 575.9  | 580.8 |
| 32.5° | 578.7 | 570.0 | 549.6 | 523.2 | 511.5 | 515.4  | 526.2 | 535.9  | 539.8 |
| 35°   | 533.0 | 523.2 | 505.8 | 482.4 | 474.5 | 478.4  | 488.2 | 496.0  | 497.9 |
| 37.5° | 481.4 | 474.5 | 461.8 | 443.3 | 437.5 | 442.4  | 450.1 | 455.0  | 457.0 |
| 40°   | 433.6 | 427.8 | 417.0 | 403.4 | 401.4 | 405.3  | 413.1 | 416.1  | 417.0 |
| 42.5° | 386.8 | 381.9 | 375.1 | 365.4 | 365.4 | 369.3  | 376.1 | 378.1  | 379.1 |
| 45°   | 342.0 | 339.1 | 336.2 | 328.4 | 330.3 | 335.2  | 339.1 | 342.0  | 342.0 |
| 47.5° | 303.0 | 304.0 | 300.1 | 294.3 | 296.2 | 301.1  | 304.0 | 306.9  | 306.9 |
| 50°   | 272.9 | 269.9 | 266.0 | 260.1 | 263.1 | 267.0  | 270.9 | 272.9  | 273.8 |
| 52.5° | 237.8 | 236.8 | 233.8 | 227.0 | 228.9 | 231.0  | 234.8 | 237.8  | 238.7 |
| 55°   | 212.5 | 209.5 | 205.5 | 197.8 | 197.8 | 199.8  | 201.7 | 203.6  | 205.5 |
| 57.5° | 188.1 | 185.1 | 179.3 | 170.5 | 169.6 | 169.6  | 168.5 | 170.5  | 173.4 |
| 60°   | 163.7 | 162.8 | 153.9 | 146.2 | 143.2 | 140.3  | 136.4 | 137.3  | 141.3 |
| 62.5° | 142.2 | 140.3 | 132.6 | 122.8 | 116.9 | 112.0  | 107.1 | 106.2  | 110.1 |
| 65°   | 122.8 | 120.9 | 112.0 | 102.3 | 95.5  | 86.7   | 78.9  | 78.9   | 81.8  |
| 67.5° | 105.2 | 101.4 | 93.5  | 82.9  | 74.0  | 63.3   | 55.5  | 57.5   | 58.5  |
| 70°   | 87.7  | 84.8  | 76.0  | 65.3  | 54.6  | 43.8   | 38.9  | 40.0   | 40.0  |
| 72.5° | 72.1  | 68.2  | 59.5  | 48.7  | 38.0  | 28.3   | 26.3  | 25.3   | 25.3  |
| 75°   | 56.5  | 52.7  | 43.8  | 33.1  | 23.4  | 16.6   | 14.6  | 14.6   | 14.6  |
| 77.5° | 41.0  | 38.0  | 30.2  | 20.4  | 12.7  | 7.8    | 6.8   | 5.9    | 5.9   |
| 80°   | 28.3  | 25.3  | 18.5  | 10.7  | 4.9   | 3.0    | 3.0   | 3.0    | 3.0   |
| 82.5° | 16.6  | 13.6  | 8.7   | 4.9   | 1.9   | 1.0    | 1.0   | 1.0    | 1.0   |
| 85°   | 7.8   | 5.9   | 3.9   | 1.9   | 1.0   | 1.0    | 1.0   | 1.0    | 1.0   |
| 87.5° | 1.0   | 1.0   | 1.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

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Scaled Data Report



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Scaled Data Report





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Scaled Data Report



— 0°-180°    - - 45°-225°    - - - - 90°-270°

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