

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: **HCC6S15D010BZ-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: HCC6S15D010BZ-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

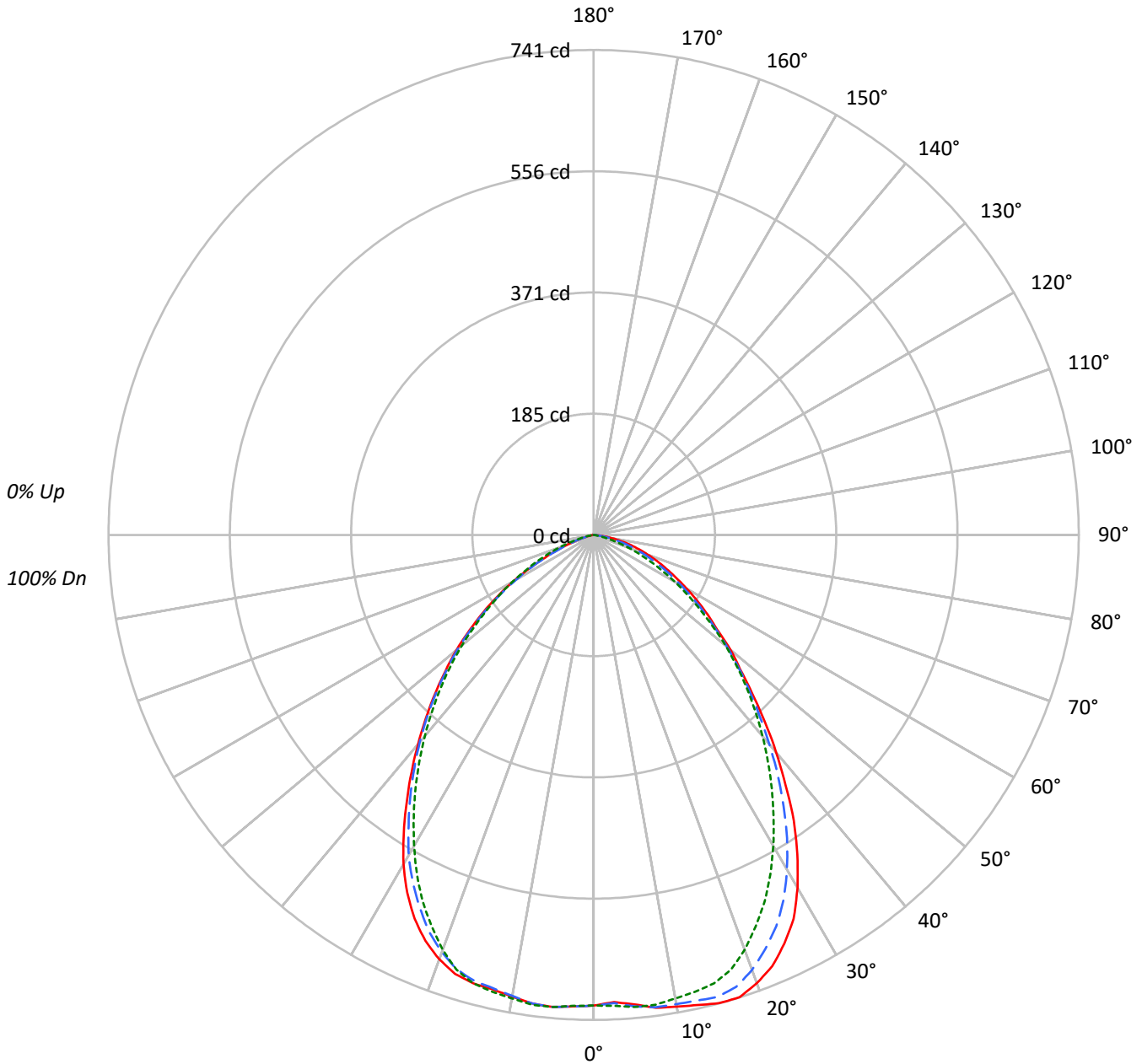
Lumens per Lamp: N/A
Luminaire Lumens: 1451.8 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): 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 | 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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