

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: P581817

Luminaire Tested: **HCC6W15D010SL-HM60525935-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W15D010SL-HM60525935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

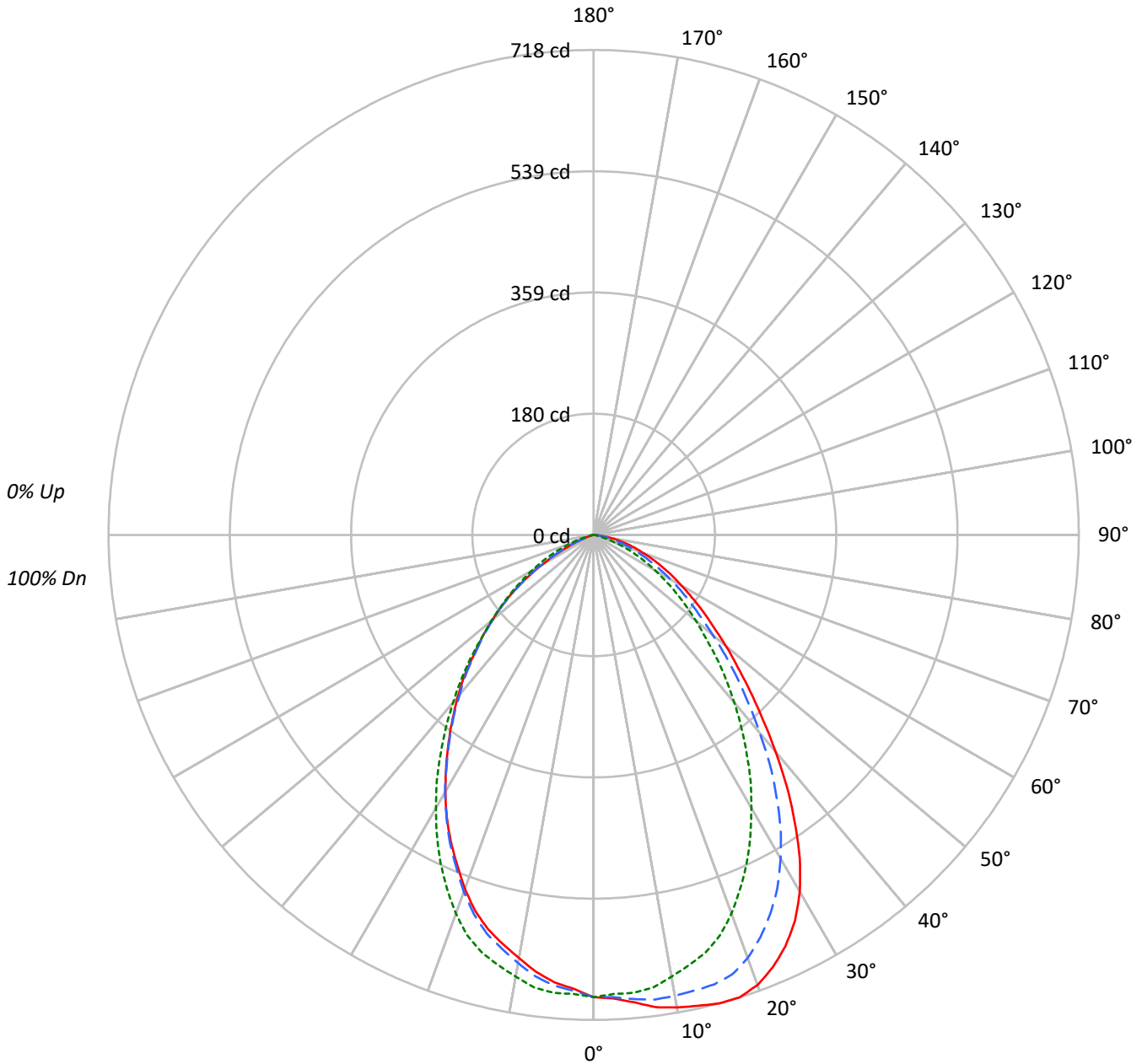
Lumens per Lamp: N/A
Luminaire Lumens: 1219.2 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 67 | 63 | 61 | | | | | | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 37508 | 37508 | 37508 |
| 5° | 38229 | 37437 | 36589 |
| 10° | 39534 | 36962 | 35409 |
| 15° | 40744 | 36317 | 34296 |
| 20° | 41368 | 34805 | 32506 |
| 25° | 40629 | 32415 | 30268 |
| 30° | 38620 | 29543 | 27776 |
| 35° | 34713 | 26401 | 25049 |
| 40° | 29956 | 23143 | 22378 |
| 45° | 25367 | 19925 | 19397 |
| 50° | 21748 | 16827 | 16656 |
| 55° | 18857 | 14164 | 13610 |
| 60° | 16468 | 11501 | 9703 |
| 65° | 14476 | 8860 | 5370 |
| 70° | 12502 | 5850 | 2613 |
| 75° | 10612 | 2859 | 1017 |
| 80° | 8208 | 1231 | 600 |
| 85° | 4843 | 566 | 566 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.6 | 5.3 |
| 10°-20° | 182.6 | 15.0 |
| 20°-30° | 257.1 | 21.1 |
| 30°-40° | 262.7 | 21.5 |
| 40°-50° | 211.8 | 17.4 |
| 50°-60° | 142.1 | 11.7 |
| 60°-70° | 71.9 | 5.9 |
| 70°-80° | 23.0 | 1.9 |
| 80°-90° | 3.5 | 0.3 |
| 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° | 504.3 | 41.4 |
| 0°-40° | 766.9 | 62.9 |
| 0°-60° | 1120.8 | 91.9 |
| 0°-90° | 1219.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1219.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 684 | 684 | 684 | 684 | 684 | |
| 5° | 695 | 690 | 680 | 670 | 665 | 67 |
| 15° | 718 | 689 | 640 | 611 | 604 | 203 |
| 25° | 672 | 619 | 536 | 503 | 500 | 307 |
| 35° | 519 | 472 | 394 | 372 | 374 | 323 |
| 45° | 327 | 301 | 257 | 248 | 250 | 254 |
| 55° | 197 | 175 | 148 | 141 | 142 | 178 |
| 65° | 112 | 92 | 68 | 45 | 41 | 111 |
| 75° | 50 | 36 | 14 | 5 | 5 | 54 |
| 85° | 8 | 4 | 1 | 1 | 1 | 10 |
| 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° | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 |
| 2.5° | 687.0 | 686.1 | 685.1 | 683.2 | 680.3 | 677.5 | 675.6 | 673.6 | 672.6 |
| 5° | 694.7 | 692.8 | 690.0 | 686.1 | 680.3 | 673.6 | 669.8 | 665.9 | 664.9 |
| 7.5° | 705.3 | 701.5 | 693.8 | 685.1 | 675.6 | 665.9 | 659.2 | 655.3 | 652.4 |
| 10° | 710.2 | 703.5 | 692.8 | 678.4 | 664.0 | 652.4 | 643.8 | 638.0 | 636.1 |
| 12.5° | 714.0 | 706.3 | 690.9 | 671.7 | 652.4 | 637.1 | 627.4 | 622.5 | 620.6 |
| 15° | 717.9 | 710.2 | 688.9 | 664.0 | 639.9 | 621.6 | 611.1 | 606.2 | 604.3 |
| 17.5° | 717.9 | 707.2 | 682.2 | 650.5 | 621.6 | 599.5 | 589.0 | 584.1 | 583.2 |
| 20° | 709.1 | 697.7 | 666.8 | 629.4 | 596.6 | 571.6 | 561.9 | 559.1 | 557.2 |
| 22.5° | 692.8 | 679.4 | 644.7 | 602.3 | 566.8 | 542.8 | 532.1 | 530.2 | 528.2 |
| 25° | 671.7 | 658.2 | 618.7 | 573.5 | 535.9 | 511.9 | 503.3 | 501.3 | 500.4 |
| 27.5° | 644.7 | 630.3 | 589.0 | 542.8 | 502.4 | 479.2 | 471.5 | 471.5 | 470.6 |
| 30° | 610.1 | 593.7 | 553.3 | 507.1 | 466.7 | 445.5 | 439.8 | 439.8 | 438.8 |
| 32.5° | 567.7 | 551.4 | 514.8 | 470.6 | 432.1 | 410.0 | 405.1 | 407.0 | 406.1 |
| 35° | 518.7 | 505.2 | 471.5 | 428.2 | 394.5 | 374.3 | 372.4 | 374.3 | 374.3 |
| 37.5° | 469.5 | 457.1 | 428.2 | 390.7 | 358.9 | 340.6 | 340.6 | 343.6 | 342.5 |
| 40° | 418.6 | 408.9 | 382.0 | 349.4 | 323.4 | 310.8 | 308.8 | 311.8 | 312.7 |
| 42.5° | 370.5 | 362.7 | 339.7 | 312.7 | 289.7 | 277.2 | 280.0 | 281.9 | 283.0 |
| 45° | 327.2 | 319.5 | 301.2 | 273.3 | 257.0 | 248.2 | 248.2 | 251.2 | 250.2 |
| 47.5° | 288.6 | 283.0 | 264.6 | 237.7 | 223.3 | 219.4 | 221.3 | 223.3 | 223.3 |
| 50° | 255.0 | 246.3 | 229.0 | 207.8 | 197.3 | 192.5 | 194.4 | 195.3 | 195.3 |
| 52.5° | 223.3 | 217.5 | 200.1 | 180.9 | 171.3 | 168.4 | 168.4 | 169.3 | 169.3 |
| 55° | 197.3 | 190.6 | 175.1 | 155.8 | 148.2 | 144.4 | 141.4 | 140.5 | 142.4 |
| 57.5° | 172.3 | 166.5 | 152.1 | 133.7 | 125.1 | 121.2 | 115.4 | 113.5 | 115.4 |
| 60° | 150.2 | 145.3 | 130.9 | 113.5 | 104.9 | 97.2 | 90.5 | 86.6 | 88.5 |
| 62.5° | 130.9 | 125.1 | 110.7 | 96.2 | 86.6 | 78.0 | 67.3 | 61.6 | 64.5 |
| 65° | 111.6 | 106.8 | 92.4 | 78.0 | 68.3 | 57.8 | 45.2 | 41.4 | 41.4 |
| 67.5° | 94.3 | 89.4 | 76.0 | 63.6 | 52.0 | 39.5 | 27.9 | 26.9 | 27.9 |
| 70° | 78.0 | 73.1 | 61.6 | 49.0 | 36.5 | 24.1 | 16.3 | 16.3 | 16.3 |
| 72.5° | 64.5 | 58.7 | 48.1 | 35.6 | 23.0 | 12.5 | 8.6 | 9.6 | 9.6 |
| 75° | 50.1 | 45.2 | 35.6 | 24.1 | 13.5 | 5.8 | 4.8 | 4.8 | 4.8 |
| 77.5° | 37.6 | 33.7 | 25.0 | 15.4 | 6.7 | 1.9 | 1.9 | 1.9 | 1.9 |
| 80° | 26.0 | 22.1 | 16.3 | 9.6 | 3.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 82.5° | 15.4 | 13.5 | 9.6 | 4.8 | 1.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 85° | 7.7 | 6.7 | 3.9 | 1.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 87.5° | 1.9 | 1.9 | 0.9 | 0.9 | 0.0 | 0.9 | 0.9 | 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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