

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: P581774

Luminaire Tested: **HCC6W15D010SL-HM60525927-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581774
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: HCC6W15D010SL-HM60525927-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

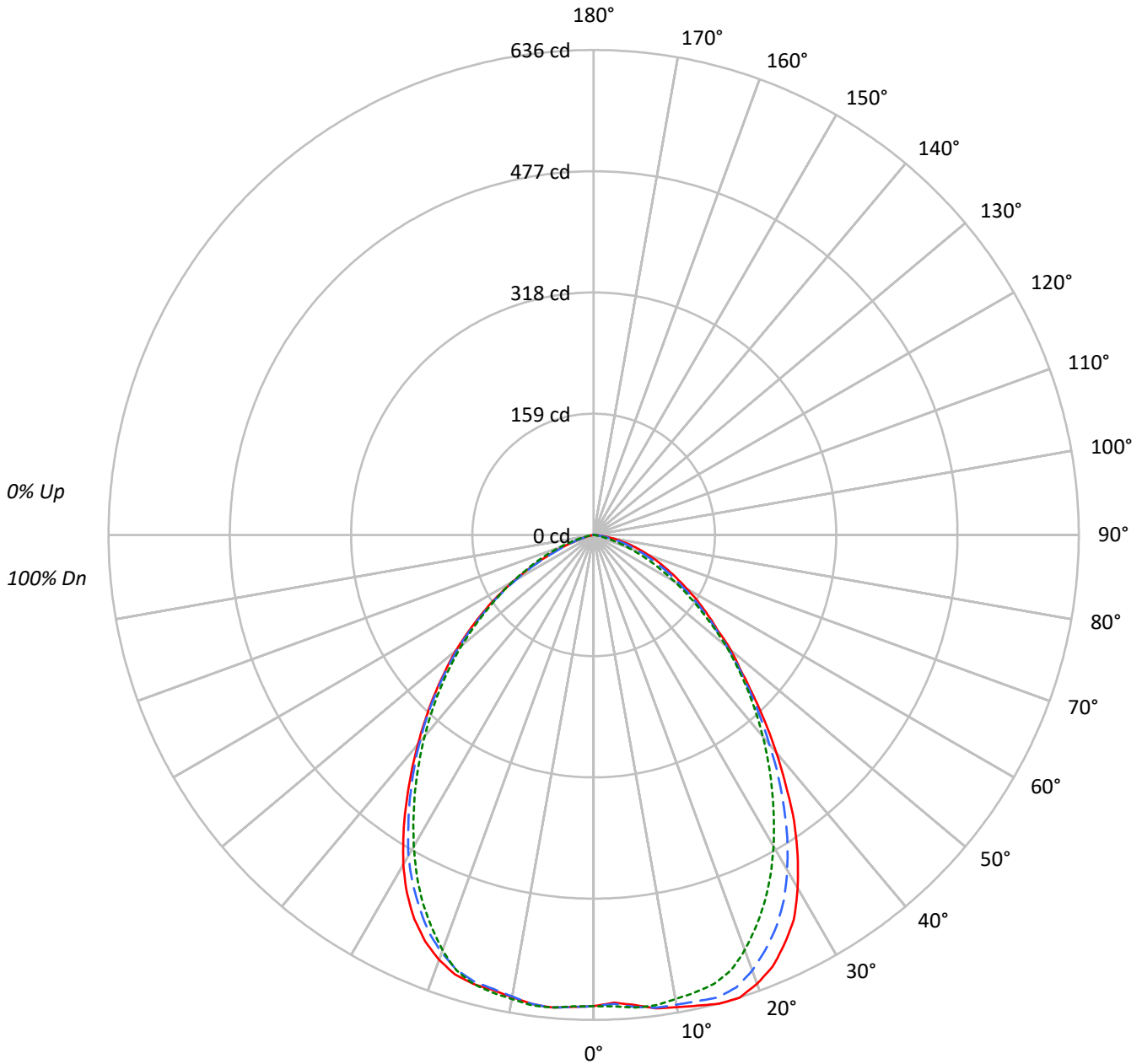
Lumens per Lamp: N/A
Luminaire Lumens: 1247.6 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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° | 33879 | 33879 | 33879 |
| 5° | 34052 | 34239 | 34239 |
| 10° | 35008 | 34402 | 34262 |
| 15° | 36118 | 34597 | 34597 |
| 20° | 36537 | 33801 | 34583 |
| 25° | 35809 | 32107 | 33631 |
| 30° | 33866 | 29846 | 31593 |
| 35° | 30657 | 27291 | 28636 |
| 40° | 26664 | 24689 | 25648 |
| 45° | 22793 | 22010 | 22793 |
| 50° | 19999 | 19283 | 20068 |
| 55° | 17443 | 16248 | 16888 |
| 60° | 15415 | 13497 | 13310 |
| 65° | 13698 | 10650 | 9132 |
| 70° | 12085 | 7517 | 5498 |
| 75° | 10294 | 4257 | 2669 |
| 80° | 7671 | 1326 | 789 |
| 85° | 4214 | 503 | 503 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.3 | 4.8 |
| 10°-20° | 173.4 | 13.9 |
| 20°-30° | 253.3 | 20.3 |
| 30°-40° | 265.7 | 21.3 |
| 40°-50° | 223.8 | 17.9 |
| 50°-60° | 156.8 | 12.6 |
| 60°-70° | 84.1 | 6.7 |
| 70°-80° | 28.2 | 2.3 |
| 80°-90° | 3.1 | 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° | 486.0 | 39.0 |
| 0°-40° | 751.7 | 60.2 |
| 0°-60° | 1132.3 | 90.8 |
| 0°-90° | 1247.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1247.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 618 | 618 | 618 | 618 | 618 | |
| 5° | 619 | 621 | 622 | 622 | 622 | 59 |
| 15° | 636 | 628 | 610 | 606 | 610 | 180 |
| 25° | 592 | 567 | 531 | 540 | 556 | 271 |
| 35° | 458 | 435 | 408 | 420 | 428 | 284 |
| 45° | 294 | 289 | 284 | 291 | 294 | 229 |
| 55° | 182 | 177 | 170 | 173 | 177 | 164 |
| 65° | 106 | 96 | 82 | 68 | 70 | 105 |
| 75° | 49 | 38 | 20 | 13 | 13 | 52 |
| 85° | 7 | 3 | 1 | 1 | 1 | 9 |
| 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° | 618.0 | 618.0 | 618.0 | 618.0 | 618.0 | 618.0 | 618.0 | 618.0 | 618.0 |
| 2.5° | 613.8 | 613.8 | 615.5 | 617.1 | 618.8 | 618.8 | 619.6 | 620.5 | 619.6 |
| 5° | 618.8 | 618.8 | 621.3 | 622.2 | 622.2 | 621.3 | 622.2 | 622.2 | 622.2 |
| 7.5° | 626.3 | 624.7 | 625.5 | 623.8 | 622.2 | 621.3 | 620.5 | 620.5 | 620.5 |
| 10° | 628.9 | 627.2 | 625.5 | 622.2 | 618.0 | 615.5 | 614.6 | 615.5 | 615.5 |
| 12.5° | 632.2 | 630.5 | 626.3 | 619.6 | 614.6 | 610.4 | 609.6 | 611.3 | 611.3 |
| 15° | 636.4 | 634.7 | 628.0 | 617.1 | 609.6 | 605.4 | 606.2 | 607.9 | 609.6 |
| 17.5° | 636.4 | 633.0 | 622.2 | 607.9 | 598.7 | 594.5 | 597.9 | 602.1 | 604.6 |
| 20° | 626.3 | 623.0 | 607.9 | 590.3 | 579.4 | 576.9 | 582.8 | 590.3 | 592.8 |
| 22.5° | 612.9 | 606.2 | 588.6 | 567.7 | 556.0 | 556.0 | 564.4 | 573.6 | 576.9 |
| 25° | 592.0 | 587.0 | 566.9 | 542.6 | 530.8 | 530.0 | 540.1 | 552.6 | 556.0 |
| 27.5° | 568.5 | 561.8 | 540.1 | 514.9 | 502.5 | 503.3 | 514.2 | 526.8 | 530.0 |
| 30° | 535.0 | 526.8 | 507.5 | 483.2 | 471.5 | 474.8 | 485.7 | 494.9 | 499.1 |
| 32.5° | 497.4 | 489.9 | 472.3 | 449.7 | 439.6 | 443.0 | 452.2 | 460.6 | 463.9 |
| 35° | 458.1 | 449.7 | 434.6 | 414.5 | 407.8 | 411.1 | 419.5 | 426.2 | 427.9 |
| 37.5° | 413.7 | 407.8 | 396.9 | 381.0 | 376.0 | 380.1 | 386.8 | 391.0 | 392.7 |
| 40° | 372.6 | 367.6 | 358.4 | 346.6 | 345.0 | 348.3 | 355.0 | 357.5 | 358.4 |
| 42.5° | 332.4 | 328.2 | 322.3 | 314.1 | 314.1 | 317.3 | 323.2 | 325.0 | 325.7 |
| 45° | 294.0 | 291.4 | 288.9 | 282.2 | 283.9 | 288.1 | 291.4 | 294.0 | 294.0 |
| 47.5° | 260.4 | 261.3 | 257.9 | 252.9 | 254.6 | 258.8 | 261.3 | 263.8 | 263.8 |
| 50° | 234.5 | 232.0 | 228.6 | 223.6 | 226.1 | 229.4 | 232.8 | 234.5 | 235.3 |
| 52.5° | 204.3 | 203.5 | 201.0 | 195.1 | 196.8 | 198.4 | 201.8 | 204.3 | 205.2 |
| 55° | 182.5 | 180.0 | 176.7 | 170.0 | 170.0 | 171.6 | 173.3 | 175.0 | 176.7 |
| 57.5° | 161.6 | 159.1 | 154.0 | 146.5 | 145.7 | 145.7 | 144.8 | 146.5 | 149.0 |
| 60° | 140.6 | 139.8 | 132.3 | 125.6 | 123.1 | 120.5 | 117.2 | 118.0 | 121.4 |
| 62.5° | 122.2 | 120.5 | 113.8 | 105.6 | 100.4 | 96.2 | 92.2 | 91.3 | 94.7 |
| 65° | 105.6 | 103.9 | 96.2 | 88.0 | 82.1 | 74.6 | 67.9 | 67.9 | 70.4 |
| 67.5° | 90.5 | 87.1 | 80.4 | 71.2 | 63.7 | 54.5 | 47.8 | 49.4 | 50.3 |
| 70° | 75.4 | 72.9 | 65.3 | 56.1 | 46.9 | 37.7 | 33.5 | 34.3 | 34.3 |
| 72.5° | 62.0 | 58.6 | 51.1 | 41.9 | 32.7 | 24.3 | 22.6 | 21.8 | 21.8 |
| 75° | 48.6 | 45.2 | 37.7 | 28.5 | 20.1 | 14.2 | 12.6 | 12.6 | 12.6 |
| 77.5° | 35.2 | 32.7 | 26.0 | 17.6 | 10.9 | 6.7 | 5.9 | 5.0 | 5.0 |
| 80° | 24.3 | 21.8 | 15.9 | 9.2 | 4.2 | 2.5 | 2.5 | 2.5 | 2.5 |
| 82.5° | 14.2 | 11.7 | 7.5 | 4.2 | 1.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| 85° | 6.7 | 5.0 | 3.4 | 1.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 87.5° | 0.8 | 0.8 | 0.8 | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

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