

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: P581631

Luminaire Tested: **HCC6W10D010SL-HM60525927-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W10D010SL-HM60525927-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

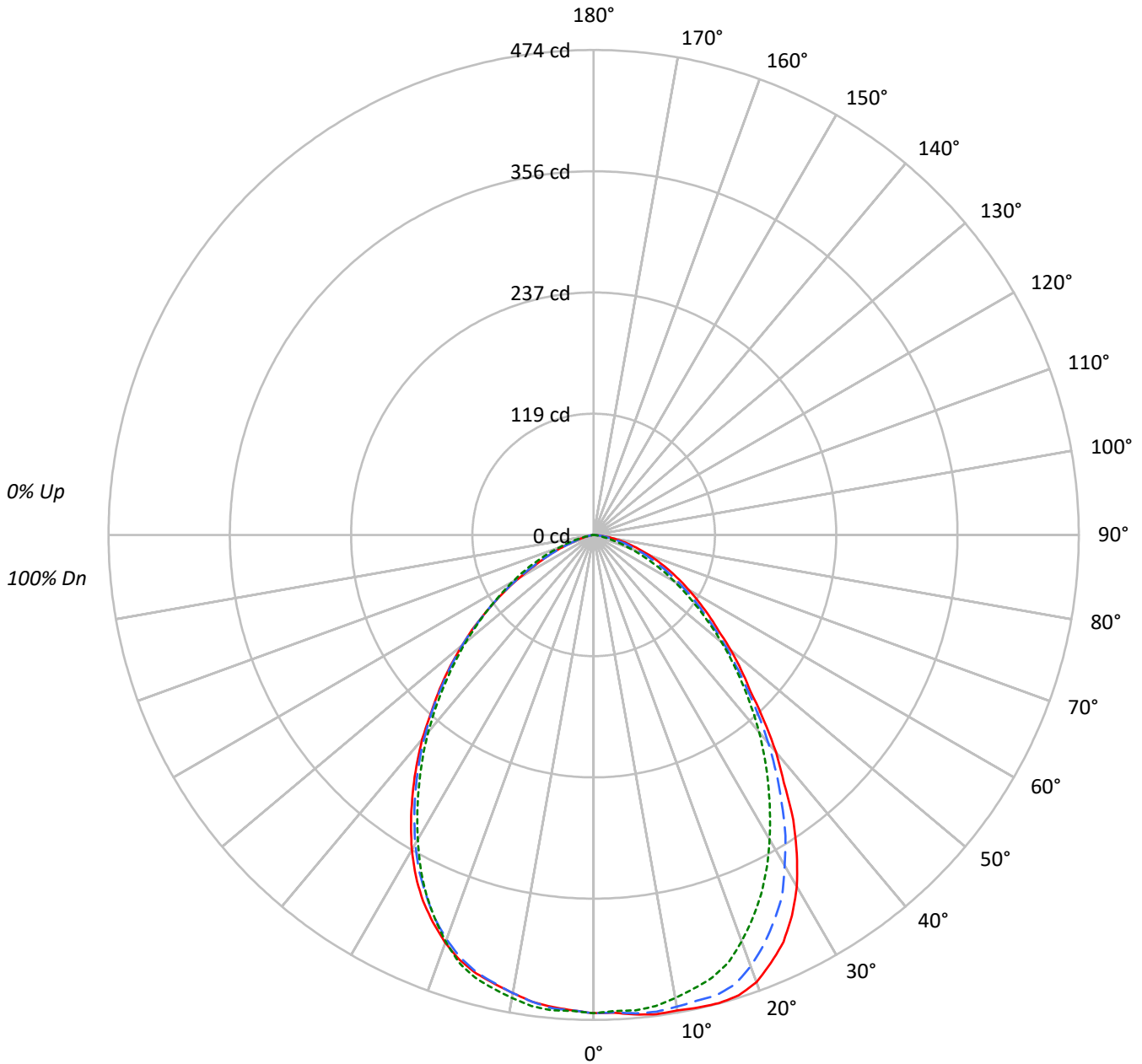
Lumens per Lamp: N/A
Luminaire Lumens: 916.2 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 93 | 92 | 90 | 88 | | | | | | | | | | | | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 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 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 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° | 25628 | 25628 | 25628 |
| 5° | 25897 | 25666 | 25490 |
| 10° | 26263 | 25584 | 25311 |
| 15° | 26884 | 25420 | 25176 |
| 20° | 27133 | 24665 | 24735 |
| 25° | 26542 | 23427 | 23868 |
| 30° | 25137 | 21763 | 22497 |
| 35° | 22761 | 19890 | 20626 |
| 40° | 19823 | 17977 | 18642 |
| 45° | 16816 | 15909 | 16482 |
| 50° | 14899 | 13901 | 14268 |
| 55° | 13123 | 11890 | 11823 |
| 60° | 11753 | 10021 | 9210 |
| 65° | 10494 | 8029 | 6590 |
| 70° | 9232 | 5786 | 4119 |
| 75° | 7795 | 3495 | 2330 |
| 80° | 5998 | 1547 | 979 |
| 85° | 3459 | 377 | 377 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.4 | 4.8 |
| 10°-20° | 127.6 | 13.9 |
| 20°-30° | 184.4 | 20.1 |
| 30°-40° | 194.0 | 21.2 |
| 40°-50° | 163.1 | 17.8 |
| 50°-60° | 114.5 | 12.5 |
| 60°-70° | 63.0 | 6.9 |
| 70°-80° | 22.4 | 2.4 |
| 80°-90° | 2.9 | 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° | 356.3 | 38.9 |
| 0°-40° | 550.4 | 60.1 |
| 0°-60° | 827.9 | 90.4 |
| 0°-90° | 916.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 916.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 468 | 468 | 468 | 468 | 468 | |
| 5° | 471 | 469 | 466 | 464 | 463 | 45 |
| 15° | 474 | 466 | 448 | 442 | 444 | 134 |
| 25° | 439 | 417 | 387 | 388 | 395 | 201 |
| 35° | 340 | 320 | 297 | 303 | 308 | 211 |
| 45° | 217 | 211 | 205 | 210 | 213 | 170 |
| 55° | 137 | 130 | 124 | 124 | 124 | 124 |
| 65° | 81 | 72 | 62 | 51 | 51 | 80 |
| 75° | 37 | 29 | 16 | 11 | 11 | 39 |
| 85° | 6 | 3 | 1 | 1 | 1 | 8 |
| 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° | 467.5 | 467.5 | 467.5 | 467.5 | 467.5 | 467.5 | 467.5 | 467.5 | 467.5 |
| 2.5° | 467.5 | 467.5 | 466.9 | 466.9 | 465.7 | 465.7 | 465.1 | 465.1 | 465.1 |
| 5° | 470.6 | 470.6 | 469.4 | 467.5 | 466.4 | 464.5 | 464.5 | 463.9 | 463.2 |
| 7.5° | 472.5 | 471.8 | 470.0 | 467.5 | 464.5 | 461.4 | 460.2 | 460.8 | 460.2 |
| 10° | 471.8 | 470.6 | 468.2 | 463.2 | 459.6 | 455.3 | 454.7 | 454.0 | 454.7 |
| 12.5° | 473.1 | 471.3 | 466.4 | 460.2 | 454.0 | 449.2 | 448.6 | 448.6 | 449.2 |
| 15° | 473.7 | 471.8 | 465.7 | 456.5 | 447.9 | 443.1 | 442.4 | 443.1 | 443.6 |
| 17.5° | 471.8 | 469.4 | 460.2 | 447.9 | 438.2 | 433.2 | 433.2 | 434.5 | 435.7 |
| 20° | 465.1 | 461.4 | 448.6 | 433.9 | 422.8 | 419.2 | 420.4 | 422.8 | 424.0 |
| 22.5° | 452.8 | 448.6 | 433.9 | 417.3 | 405.7 | 402.7 | 405.7 | 408.8 | 410.0 |
| 25° | 438.8 | 433.9 | 416.7 | 399.5 | 387.3 | 383.6 | 387.9 | 392.8 | 394.6 |
| 27.5° | 419.7 | 414.2 | 398.4 | 378.7 | 366.4 | 364.6 | 369.5 | 375.0 | 376.3 |
| 30° | 397.1 | 391.0 | 373.2 | 354.8 | 343.8 | 343.1 | 348.7 | 353.5 | 355.4 |
| 32.5° | 369.5 | 364.1 | 348.7 | 330.3 | 320.5 | 320.5 | 326.0 | 330.3 | 332.1 |
| 35° | 340.1 | 333.9 | 320.5 | 305.2 | 297.2 | 297.8 | 303.4 | 306.4 | 308.2 |
| 37.5° | 305.2 | 303.4 | 293.0 | 280.1 | 274.5 | 275.8 | 280.1 | 282.5 | 284.4 |
| 40° | 277.0 | 272.1 | 265.3 | 254.9 | 251.2 | 252.4 | 256.7 | 259.2 | 260.5 |
| 42.5° | 246.3 | 243.3 | 237.7 | 230.4 | 228.0 | 229.8 | 233.4 | 235.3 | 234.7 |
| 45° | 216.9 | 216.3 | 210.8 | 206.5 | 205.2 | 207.7 | 210.2 | 212.0 | 212.6 |
| 47.5° | 195.5 | 193.0 | 188.1 | 185.1 | 183.8 | 186.3 | 188.7 | 189.9 | 189.9 |
| 50° | 174.7 | 172.2 | 167.3 | 164.3 | 163.0 | 165.5 | 167.3 | 168.6 | 167.3 |
| 52.5° | 153.8 | 151.3 | 147.0 | 143.4 | 142.7 | 144.0 | 144.7 | 145.2 | 146.5 |
| 55° | 137.3 | 134.8 | 130.0 | 125.7 | 124.4 | 125.0 | 124.4 | 124.4 | 123.7 |
| 57.5° | 121.4 | 118.9 | 114.0 | 109.1 | 107.2 | 106.6 | 104.8 | 104.1 | 103.6 |
| 60° | 107.2 | 104.1 | 99.3 | 93.7 | 91.4 | 88.9 | 85.8 | 84.0 | 84.0 |
| 62.5° | 93.7 | 90.7 | 85.1 | 80.3 | 76.6 | 72.3 | 67.4 | 65.0 | 65.0 |
| 65° | 80.9 | 78.4 | 72.3 | 66.8 | 61.9 | 56.4 | 50.8 | 49.6 | 50.8 |
| 67.5° | 68.6 | 66.2 | 60.1 | 54.6 | 48.4 | 41.7 | 36.8 | 36.8 | 38.0 |
| 70° | 57.6 | 55.1 | 49.6 | 42.9 | 36.1 | 29.4 | 25.7 | 25.7 | 25.7 |
| 72.5° | 47.2 | 44.7 | 38.6 | 32.5 | 25.7 | 19.0 | 17.2 | 17.8 | 17.2 |
| 75° | 36.8 | 35.0 | 29.4 | 22.6 | 16.5 | 11.7 | 11.0 | 10.4 | 11.0 |
| 77.5° | 27.6 | 25.7 | 20.8 | 14.7 | 9.2 | 6.8 | 6.1 | 6.1 | 6.1 |
| 80° | 19.0 | 17.2 | 13.5 | 8.6 | 4.9 | 3.1 | 3.1 | 3.1 | 3.1 |
| 82.5° | 11.7 | 9.8 | 7.4 | 4.3 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 85° | 5.5 | 4.3 | 3.1 | 1.2 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 87.5° | 1.2 | 1.2 | 0.6 | 0.6 | 0.0 | 0.6 | 0.6 | 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



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

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