

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: P583384

Luminaire Tested: **HCC6W07D010SL-HM60525930-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W07D010SL-HM60525930-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

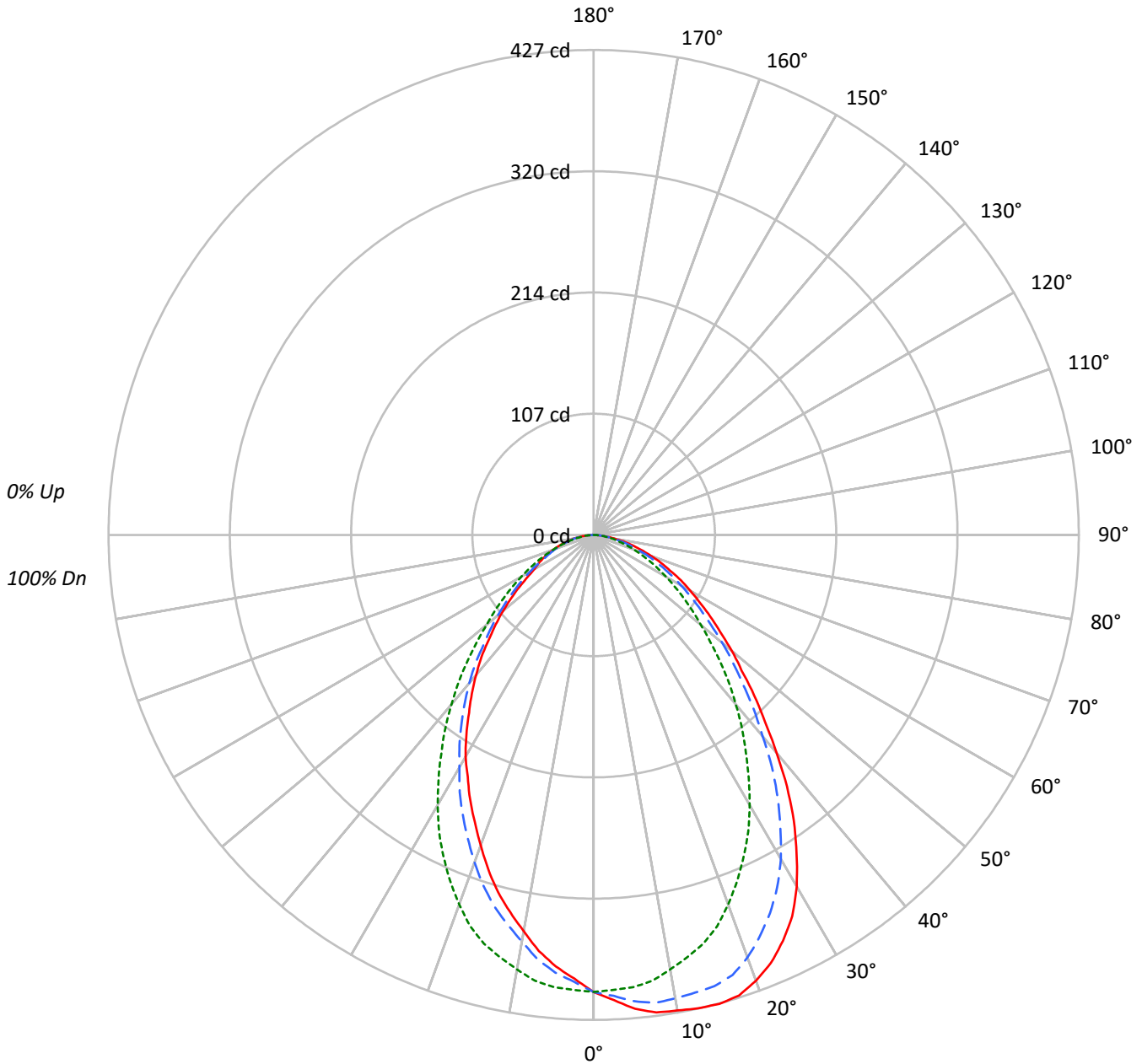
Lumens per Lamp: N/A
Luminaire Lumens: 749.7 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 53 | 51 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 42 | | | | | | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 22060 | 22060 | 22060 |
| 5° | 23046 | 21995 | 20988 |
| 10° | 23669 | 21621 | 19722 |
| 15° | 24257 | 21147 | 18473 |
| 20° | 24362 | 20191 | 16965 |
| 25° | 23850 | 18908 | 15563 |
| 30° | 22630 | 17382 | 14268 |
| 35° | 20559 | 15627 | 12802 |
| 40° | 17912 | 13912 | 11514 |
| 45° | 15498 | 12172 | 10117 |
| 50° | 13535 | 10482 | 8870 |
| 55° | 11957 | 9214 | 7608 |
| 60° | 10745 | 8070 | 6600 |
| 65° | 9625 | 7031 | 6395 |
| 70° | 8591 | 5995 | 5995 |
| 75° | 7456 | 5041 | 5613 |
| 80° | 5967 | 4293 | 5114 |
| 85° | 4088 | 3774 | 4403 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 37.8 | 5.0 |
| 10°-20° | 105.1 | 14.0 |
| 20°-30° | 146.5 | 19.5 |
| 30°-40° | 151.0 | 20.1 |
| 40°-50° | 125.1 | 16.7 |
| 50°-60° | 89.9 | 12.0 |
| 60°-70° | 57.3 | 7.6 |
| 70°-80° | 29.4 | 3.9 |
| 80°-90° | 7.5 | 1.0 |
| 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° | 289.5 | 38.6 |
| 0°-40° | 440.5 | 58.8 |
| 0°-60° | 655.5 | 87.4 |
| 0°-90° | 749.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 749.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 402 | 402 | 402 | 402 | 402 | |
| 5° | 419 | 412 | 400 | 387 | 381 | 40 |
| 15° | 427 | 411 | 373 | 338 | 326 | 120 |
| 25° | 394 | 367 | 313 | 272 | 257 | 181 |
| 35° | 307 | 282 | 234 | 203 | 191 | 191 |
| 45° | 200 | 186 | 157 | 137 | 130 | 155 |
| 55° | 125 | 115 | 96 | 86 | 80 | 113 |
| 65° | 74 | 66 | 54 | 47 | 49 | 74 |
| 75° | 35 | 30 | 24 | 25 | 26 | 38 |
| 85° | 6 | 6 | 6 | 6 | 7 | 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° | 402.4 | 402.4 | 402.4 | 402.4 | 402.4 | 402.4 | 402.4 | 402.4 | 402.4 |
| 2.5° | 410.0 | 408.4 | 406.3 | 404.1 | 400.9 | 397.0 | 393.8 | 392.7 | 391.1 |
| 5° | 418.8 | 416.5 | 412.2 | 406.7 | 399.7 | 392.7 | 386.8 | 383.0 | 381.4 |
| 7.5° | 424.1 | 421.5 | 415.5 | 406.3 | 396.0 | 385.7 | 376.9 | 371.6 | 369.5 |
| 10° | 425.2 | 422.5 | 414.3 | 401.9 | 388.4 | 374.3 | 363.5 | 357.0 | 354.3 |
| 12.5° | 426.8 | 423.1 | 412.8 | 398.1 | 380.8 | 364.6 | 351.0 | 342.8 | 340.1 |
| 15° | 427.4 | 423.1 | 411.2 | 393.3 | 372.6 | 353.2 | 338.5 | 328.8 | 325.5 |
| 17.5° | 425.2 | 420.3 | 406.3 | 384.5 | 361.3 | 340.7 | 323.4 | 313.0 | 308.7 |
| 20° | 417.6 | 412.2 | 396.0 | 371.6 | 346.1 | 324.5 | 306.6 | 295.7 | 290.8 |
| 22.5° | 407.9 | 400.9 | 382.4 | 356.4 | 329.9 | 307.2 | 289.3 | 278.4 | 273.5 |
| 25° | 394.3 | 387.8 | 367.2 | 339.7 | 312.6 | 288.7 | 272.5 | 261.0 | 257.3 |
| 27.5° | 378.6 | 371.1 | 349.9 | 322.3 | 294.7 | 270.8 | 255.2 | 244.8 | 240.0 |
| 30° | 357.5 | 350.4 | 329.4 | 301.7 | 274.6 | 252.4 | 236.1 | 227.5 | 225.4 |
| 32.5° | 332.5 | 326.6 | 306.0 | 280.1 | 254.0 | 233.5 | 219.9 | 210.7 | 208.6 |
| 35° | 307.2 | 300.1 | 282.2 | 257.9 | 233.5 | 215.0 | 202.6 | 194.4 | 191.3 |
| 37.5° | 279.5 | 273.1 | 257.9 | 236.1 | 214.5 | 197.1 | 186.4 | 179.2 | 176.1 |
| 40° | 250.3 | 245.4 | 231.2 | 213.9 | 194.4 | 179.2 | 170.1 | 164.2 | 160.9 |
| 42.5° | 223.2 | 218.3 | 208.6 | 192.3 | 176.1 | 162.5 | 154.4 | 149.0 | 146.3 |
| 45° | 199.9 | 195.6 | 185.8 | 171.8 | 157.0 | 145.7 | 137.1 | 133.2 | 130.5 |
| 47.5° | 176.6 | 174.4 | 165.8 | 152.7 | 139.2 | 129.5 | 123.5 | 119.2 | 117.0 |
| 50° | 158.7 | 156.0 | 147.9 | 134.4 | 122.9 | 115.3 | 110.0 | 106.2 | 104.0 |
| 52.5° | 140.3 | 137.5 | 130.0 | 118.6 | 109.4 | 102.4 | 97.0 | 93.7 | 91.5 |
| 55° | 125.1 | 122.9 | 114.9 | 104.6 | 96.4 | 90.4 | 85.5 | 81.8 | 79.6 |
| 57.5° | 111.0 | 108.9 | 101.3 | 91.5 | 84.5 | 79.1 | 74.8 | 71.5 | 68.8 |
| 60° | 98.0 | 96.4 | 88.8 | 79.6 | 73.6 | 68.2 | 64.5 | 61.7 | 60.2 |
| 62.5° | 86.7 | 83.4 | 76.9 | 68.8 | 63.3 | 59.0 | 55.3 | 53.6 | 54.7 |
| 65° | 74.2 | 72.6 | 66.1 | 59.0 | 54.2 | 49.9 | 47.1 | 48.2 | 49.3 |
| 67.5° | 63.9 | 61.7 | 56.3 | 49.9 | 45.5 | 42.3 | 40.7 | 42.8 | 43.3 |
| 70° | 53.6 | 51.4 | 46.6 | 41.1 | 37.4 | 35.2 | 35.2 | 36.8 | 37.4 |
| 72.5° | 43.8 | 42.3 | 38.0 | 33.5 | 30.9 | 29.2 | 30.4 | 31.4 | 32.0 |
| 75° | 35.2 | 33.5 | 30.4 | 26.5 | 23.8 | 23.8 | 24.9 | 25.9 | 26.5 |
| 77.5° | 27.1 | 25.9 | 22.8 | 20.1 | 18.9 | 18.9 | 20.1 | 20.6 | 21.1 |
| 80° | 18.9 | 17.9 | 16.2 | 14.6 | 13.6 | 14.6 | 15.7 | 15.7 | 16.2 |
| 82.5° | 12.5 | 11.9 | 10.9 | 9.7 | 9.7 | 10.3 | 10.9 | 11.3 | 11.3 |
| 85° | 6.5 | 6.5 | 6.0 | 5.4 | 6.0 | 6.5 | 6.5 | 7.0 | 7.0 |
| 87.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 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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