

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: P581576

Luminaire Tested: **HCC6W10D010SL-HM60525830-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581576
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: HCC6W10D010SL-HM60525830-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

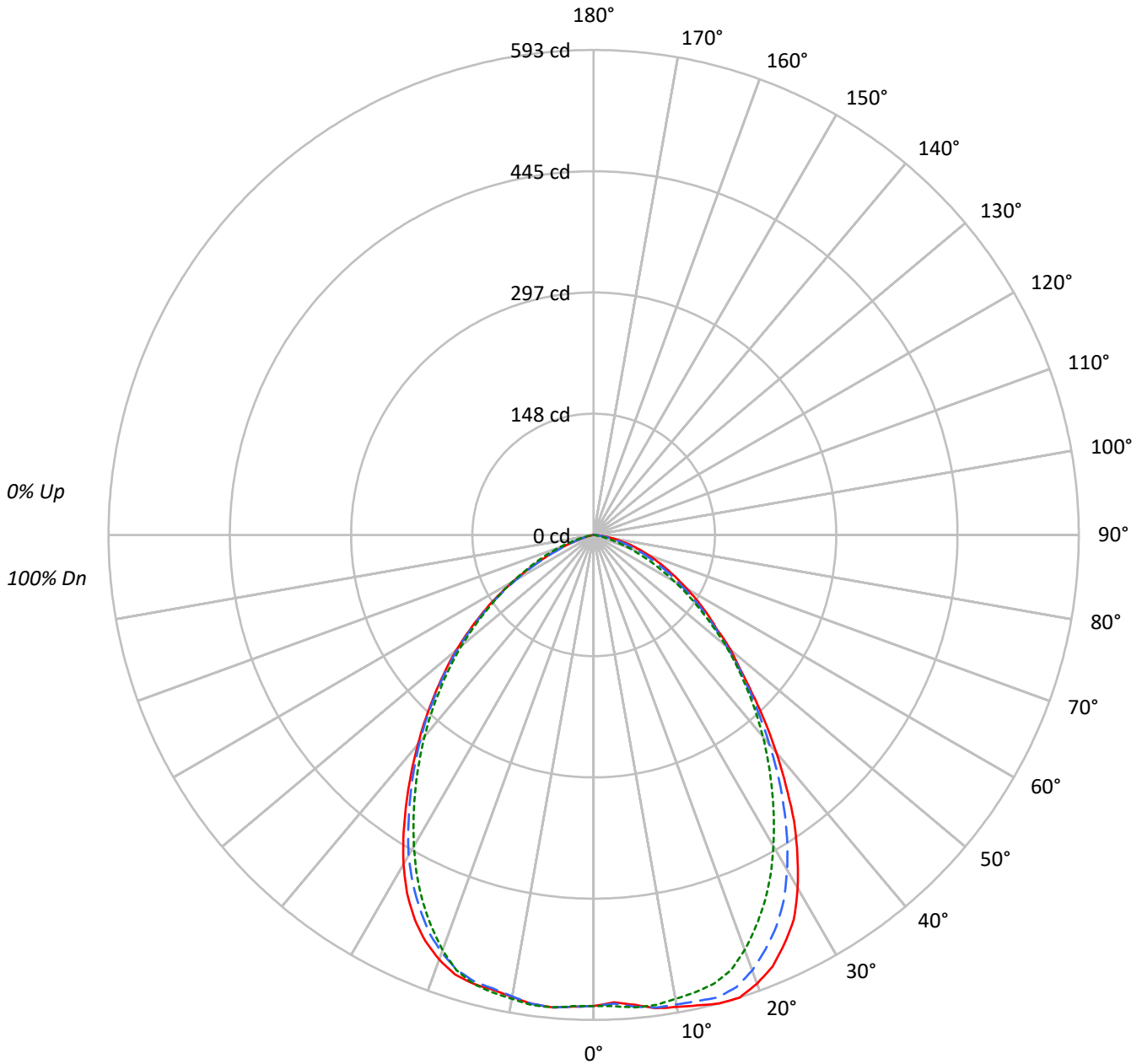
Lumens per Lamp: N/A
Luminaire Lumens: 1162.8 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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 | | | | | 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° | 31576 | 31576 | 31576 |
| 5° | 31741 | 31912 | 31912 |
| 10° | 32626 | 32064 | 31930 |
| 15° | 33666 | 32248 | 32248 |
| 20° | 34058 | 31509 | 32232 |
| 25° | 33371 | 29929 | 31345 |
| 30° | 31574 | 27814 | 29441 |
| 35° | 28569 | 25437 | 26689 |
| 40° | 24854 | 23015 | 23909 |
| 45° | 21235 | 20506 | 21235 |
| 50° | 18635 | 17978 | 18703 |
| 55° | 16257 | 15149 | 15741 |
| 60° | 14374 | 12576 | 12411 |
| 65° | 12764 | 9923 | 8496 |
| 70° | 11268 | 7004 | 5129 |
| 75° | 9595 | 3961 | 2478 |
| 80° | 7135 | 1200 | 758 |
| 85° | 3900 | 503 | 503 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.3 | 4.8 |
| 10°-20° | 161.6 | 13.9 |
| 20°-30° | 236.1 | 20.3 |
| 30°-40° | 247.6 | 21.3 |
| 40°-50° | 208.6 | 17.9 |
| 50°-60° | 146.1 | 12.6 |
| 60°-70° | 78.4 | 6.7 |
| 70°-80° | 26.3 | 2.3 |
| 80°-90° | 2.9 | 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° | 453.0 | 39.0 |
| 0°-40° | 700.6 | 60.2 |
| 0°-60° | 1055.3 | 90.8 |
| 0°-90° | 1162.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1162.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 576 | 576 | 576 | 576 | 576 | |
| 5° | 577 | 579 | 580 | 580 | 580 | 55 |
| 15° | 593 | 585 | 568 | 565 | 568 | 167 |
| 25° | 552 | 528 | 495 | 503 | 518 | 253 |
| 35° | 427 | 405 | 380 | 391 | 399 | 265 |
| 45° | 274 | 269 | 264 | 272 | 274 | 213 |
| 55° | 170 | 165 | 158 | 162 | 165 | 153 |
| 65° | 98 | 90 | 76 | 63 | 66 | 98 |
| 75° | 45 | 35 | 19 | 12 | 12 | 48 |
| 85° | 6 | 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° | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 |
| 2.5° | 572.1 | 572.1 | 573.6 | 575.2 | 576.8 | 576.8 | 577.5 | 578.3 | 577.5 |
| 5° | 576.8 | 576.8 | 579.1 | 579.9 | 579.9 | 579.1 | 579.9 | 579.9 | 579.9 |
| 7.5° | 583.8 | 582.2 | 583.0 | 581.4 | 579.9 | 579.1 | 578.3 | 578.3 | 578.3 |
| 10° | 586.1 | 584.6 | 583.0 | 579.9 | 576.0 | 573.6 | 572.9 | 573.6 | 573.6 |
| 12.5° | 589.2 | 587.7 | 583.8 | 577.5 | 572.9 | 568.9 | 568.2 | 569.7 | 569.7 |
| 15° | 593.2 | 591.6 | 585.4 | 575.2 | 568.2 | 564.3 | 565.1 | 566.6 | 568.2 |
| 17.5° | 593.2 | 590.0 | 579.9 | 566.6 | 558.1 | 554.1 | 557.3 | 561.1 | 563.5 |
| 20° | 583.8 | 580.7 | 566.6 | 550.3 | 540.1 | 537.7 | 543.2 | 550.3 | 552.5 |
| 22.5° | 571.3 | 565.1 | 548.7 | 529.1 | 518.2 | 518.2 | 526.0 | 534.6 | 537.7 |
| 25° | 551.7 | 547.1 | 528.4 | 505.8 | 494.8 | 494.0 | 503.4 | 515.1 | 518.2 |
| 27.5° | 529.9 | 523.7 | 503.4 | 480.0 | 468.3 | 469.1 | 479.2 | 490.9 | 494.0 |
| 30° | 498.8 | 490.9 | 472.9 | 450.3 | 439.4 | 442.5 | 452.7 | 461.3 | 465.1 |
| 32.5° | 463.6 | 456.5 | 440.2 | 419.1 | 409.8 | 412.8 | 421.4 | 429.3 | 432.4 |
| 35° | 426.9 | 419.1 | 405.0 | 386.4 | 380.1 | 383.2 | 391.0 | 397.2 | 398.8 |
| 37.5° | 385.6 | 380.1 | 369.9 | 355.1 | 350.5 | 354.3 | 360.5 | 364.5 | 366.1 |
| 40° | 347.3 | 342.7 | 334.1 | 323.1 | 321.6 | 324.7 | 330.9 | 333.3 | 334.1 |
| 42.5° | 309.8 | 306.0 | 300.4 | 292.6 | 292.6 | 295.8 | 301.2 | 302.8 | 303.6 |
| 45° | 273.9 | 271.6 | 269.3 | 263.0 | 264.5 | 268.5 | 271.6 | 273.9 | 273.9 |
| 47.5° | 242.7 | 243.5 | 240.4 | 235.7 | 237.3 | 241.1 | 243.5 | 245.9 | 245.9 |
| 50° | 218.5 | 216.2 | 213.0 | 208.4 | 210.8 | 213.8 | 217.0 | 218.5 | 219.3 |
| 52.5° | 190.4 | 189.6 | 187.3 | 181.8 | 183.4 | 185.0 | 188.1 | 190.4 | 191.2 |
| 55° | 170.1 | 167.8 | 164.7 | 158.5 | 158.5 | 160.0 | 161.5 | 163.1 | 164.7 |
| 57.5° | 150.7 | 148.3 | 143.7 | 136.6 | 135.8 | 135.8 | 135.0 | 136.6 | 138.9 |
| 60° | 131.1 | 130.3 | 123.3 | 117.0 | 114.7 | 112.4 | 109.2 | 110.0 | 113.2 |
| 62.5° | 114.0 | 112.4 | 106.2 | 98.4 | 93.6 | 89.8 | 85.8 | 85.1 | 88.2 |
| 65° | 98.4 | 96.8 | 89.8 | 82.0 | 76.5 | 69.5 | 63.2 | 63.2 | 65.5 |
| 67.5° | 84.3 | 81.2 | 74.9 | 66.3 | 59.3 | 50.7 | 44.5 | 46.1 | 46.9 |
| 70° | 70.3 | 67.9 | 60.9 | 52.3 | 43.7 | 35.1 | 31.2 | 32.0 | 32.0 |
| 72.5° | 57.7 | 54.7 | 47.7 | 39.1 | 30.5 | 22.6 | 21.1 | 20.3 | 20.3 |
| 75° | 45.3 | 42.1 | 35.1 | 26.5 | 18.7 | 13.2 | 11.7 | 11.7 | 11.7 |
| 77.5° | 32.8 | 30.5 | 24.2 | 16.4 | 10.2 | 6.2 | 5.4 | 4.6 | 4.6 |
| 80° | 22.6 | 20.3 | 14.8 | 8.6 | 3.8 | 2.4 | 2.4 | 2.4 | 2.4 |
| 82.5° | 13.2 | 11.0 | 7.0 | 3.8 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| 85° | 6.2 | 4.6 | 3.2 | 1.6 | 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



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

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