

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: P581423

Luminaire Tested: **HCC4S07D010SL-HM40525827-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010SL-HM40525827-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

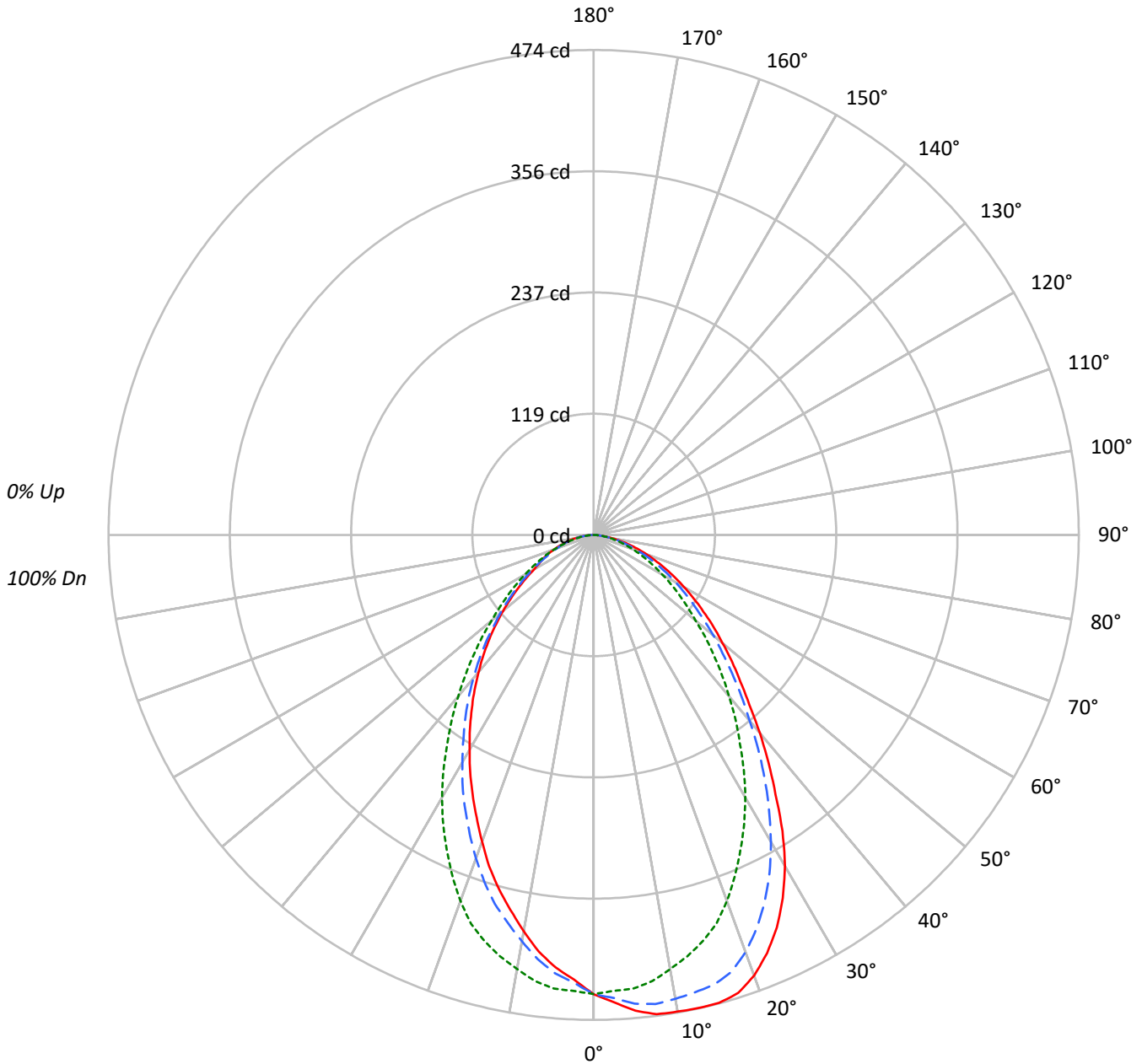
Lumens per Lamp: N/A
Luminaire Lumens: 801.4 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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 | | | | | | | | | |
| 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 | 106 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | | | | | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | | | | | | | | | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | | | | | | | | | | | | | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 76 | 68 | 63 | 73 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 61 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 48 | 47 | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 58 | 50 | 45 | 69 | 58 | 50 | 45 | 56 | 49 | 44 | 55 | 49 | 44 | 53 | 48 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 40 | 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° | 55358 | 55358 | 55358 |
| 5° | 57785 | 55111 | 52560 |
| 10° | 59255 | 53957 | 49260 |
| 15° | 60477 | 52522 | 45715 |
| 20° | 60157 | 49971 | 41859 |
| 25° | 57623 | 46205 | 38080 |
| 30° | 53239 | 42187 | 34524 |
| 35° | 46664 | 37524 | 31245 |
| 40° | 40641 | 33153 | 28146 |
| 45° | 35376 | 28922 | 25154 |
| 50° | 31509 | 24908 | 22183 |
| 55° | 28171 | 21913 | 19182 |
| 60° | 25138 | 19143 | 16528 |
| 65° | 22357 | 16811 | 15702 |
| 70° | 19619 | 14498 | 14642 |
| 75° | 16585 | 12296 | 13630 |
| 80° | 12786 | 10513 | 12360 |
| 85° | 7359 | 8208 | 10473 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.1 | 5.2 |
| 10°-20° | 116.0 | 14.5 |
| 20°-30° | 158.5 | 19.8 |
| 30°-40° | 159.2 | 19.9 |
| 40°-50° | 131.7 | 16.4 |
| 50°-60° | 95.4 | 11.9 |
| 60°-70° | 60.5 | 7.5 |
| 70°-80° | 30.6 | 3.8 |
| 80°-90° | 7.5 | 0.9 |
| 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° | 316.6 | 39.5 |
| 0°-40° | 475.8 | 59.4 |
| 0°-60° | 702.9 | 87.7 |
| 0°-90° | 801.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 801.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 449 | 449 | 449 | 449 | 449 | |
| 5° | 467 | 460 | 445 | 430 | 424 | 45 |
| 15° | 474 | 455 | 411 | 373 | 358 | 133 |
| 25° | 423 | 396 | 340 | 297 | 280 | 194 |
| 35° | 310 | 291 | 249 | 219 | 208 | 194 |
| 45° | 203 | 191 | 166 | 149 | 144 | 158 |
| 55° | 131 | 119 | 102 | 93 | 89 | 118 |
| 65° | 77 | 68 | 58 | 52 | 54 | 76 |
| 75° | 35 | 30 | 26 | 27 | 29 | 37 |
| 85° | 5 | 5 | 6 | 7 | 7 | 7 |
| 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° | 448.8 | 448.8 | 448.8 | 448.8 | 448.8 | 448.8 | 448.8 | 448.8 | 448.8 |
| 2.5° | 457.2 | 455.7 | 453.0 | 449.9 | 446.1 | 441.9 | 438.2 | 436.1 | 435.1 |
| 5° | 466.7 | 464.6 | 459.9 | 453.0 | 445.1 | 437.2 | 430.3 | 426.1 | 424.5 |
| 7.5° | 472.5 | 469.4 | 462.5 | 451.9 | 439.8 | 428.2 | 418.2 | 412.4 | 410.8 |
| 10° | 473.1 | 469.4 | 460.4 | 446.1 | 430.8 | 415.5 | 403.4 | 394.9 | 393.3 |
| 12.5° | 473.6 | 468.9 | 457.8 | 440.9 | 421.9 | 402.9 | 388.1 | 378.0 | 375.4 |
| 15° | 473.6 | 468.9 | 455.1 | 435.1 | 411.3 | 389.7 | 373.3 | 361.7 | 358.0 |
| 17.5° | 469.4 | 464.1 | 447.7 | 424.5 | 398.6 | 374.3 | 355.3 | 343.2 | 339.5 |
| 20° | 458.3 | 452.5 | 434.0 | 408.7 | 380.7 | 355.3 | 336.3 | 323.6 | 318.9 |
| 22.5° | 442.5 | 435.6 | 416.1 | 388.6 | 360.6 | 334.7 | 316.3 | 303.0 | 298.8 |
| 25° | 423.4 | 416.6 | 395.5 | 368.5 | 339.5 | 315.2 | 296.7 | 284.6 | 279.8 |
| 27.5° | 400.2 | 392.8 | 372.2 | 345.3 | 318.4 | 294.1 | 277.2 | 266.1 | 261.4 |
| 30° | 373.8 | 365.9 | 346.4 | 320.5 | 296.2 | 273.0 | 256.6 | 247.6 | 242.4 |
| 32.5° | 343.2 | 336.3 | 318.9 | 295.7 | 273.0 | 250.8 | 237.0 | 229.2 | 224.9 |
| 35° | 309.9 | 306.2 | 291.4 | 271.4 | 249.2 | 230.7 | 218.6 | 211.2 | 207.5 |
| 37.5° | 280.4 | 276.6 | 264.0 | 247.1 | 227.6 | 210.6 | 200.6 | 194.3 | 191.2 |
| 40° | 252.4 | 249.2 | 237.0 | 222.8 | 205.9 | 191.2 | 182.6 | 178.0 | 174.8 |
| 42.5° | 224.9 | 223.4 | 213.3 | 200.1 | 185.3 | 172.6 | 165.8 | 162.1 | 159.4 |
| 45° | 202.8 | 200.6 | 191.2 | 178.4 | 165.8 | 155.2 | 149.4 | 146.8 | 144.2 |
| 47.5° | 183.2 | 180.6 | 170.6 | 159.4 | 147.8 | 138.4 | 133.0 | 130.4 | 129.4 |
| 50° | 164.2 | 161.6 | 152.6 | 141.5 | 129.8 | 123.0 | 118.8 | 116.2 | 115.6 |
| 52.5° | 147.3 | 144.6 | 134.6 | 124.0 | 115.1 | 109.2 | 105.6 | 103.0 | 101.9 |
| 55° | 131.0 | 127.8 | 119.4 | 109.2 | 101.9 | 96.6 | 93.0 | 90.2 | 89.2 |
| 57.5° | 116.2 | 113.0 | 105.6 | 96.0 | 89.2 | 84.4 | 81.3 | 78.6 | 77.6 |
| 60° | 101.9 | 99.2 | 92.4 | 83.4 | 77.6 | 73.4 | 70.2 | 68.2 | 67.0 |
| 62.5° | 88.7 | 86.6 | 79.8 | 71.8 | 67.0 | 63.4 | 60.8 | 58.6 | 59.6 |
| 65° | 76.6 | 74.4 | 68.2 | 61.2 | 57.6 | 53.8 | 51.8 | 51.8 | 53.8 |
| 67.5° | 65.0 | 62.8 | 57.6 | 51.8 | 48.6 | 46.0 | 44.4 | 46.0 | 47.6 |
| 70° | 54.4 | 52.2 | 47.6 | 42.8 | 40.2 | 38.0 | 38.0 | 39.6 | 40.6 |
| 72.5° | 44.4 | 42.2 | 38.6 | 34.8 | 32.8 | 31.2 | 32.8 | 33.8 | 34.8 |
| 75° | 34.8 | 33.2 | 30.0 | 27.4 | 25.8 | 25.4 | 27.0 | 28.0 | 28.6 |
| 77.5° | 25.8 | 24.8 | 22.8 | 20.6 | 19.6 | 20.0 | 21.6 | 22.2 | 22.8 |
| 80° | 18.0 | 17.4 | 15.8 | 14.8 | 14.8 | 15.4 | 16.4 | 16.8 | 17.4 |
| 82.5° | 11.0 | 11.0 | 10.0 | 9.6 | 10.0 | 11.0 | 11.6 | 12.2 | 12.2 |
| 85° | 5.2 | 5.8 | 5.2 | 5.2 | 5.8 | 6.8 | 6.8 | 7.4 | 7.4 |
| 87.5° | 1.6 | 1.6 | 2.2 | 2.2 | 2.6 | 2.6 | 2.6 | 2.6 | 3.2 |
| 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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