

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: P581745

Luminaire Tested: **HCC6S15D010MB-HM60525835-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S15D010MB-HM60525835-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

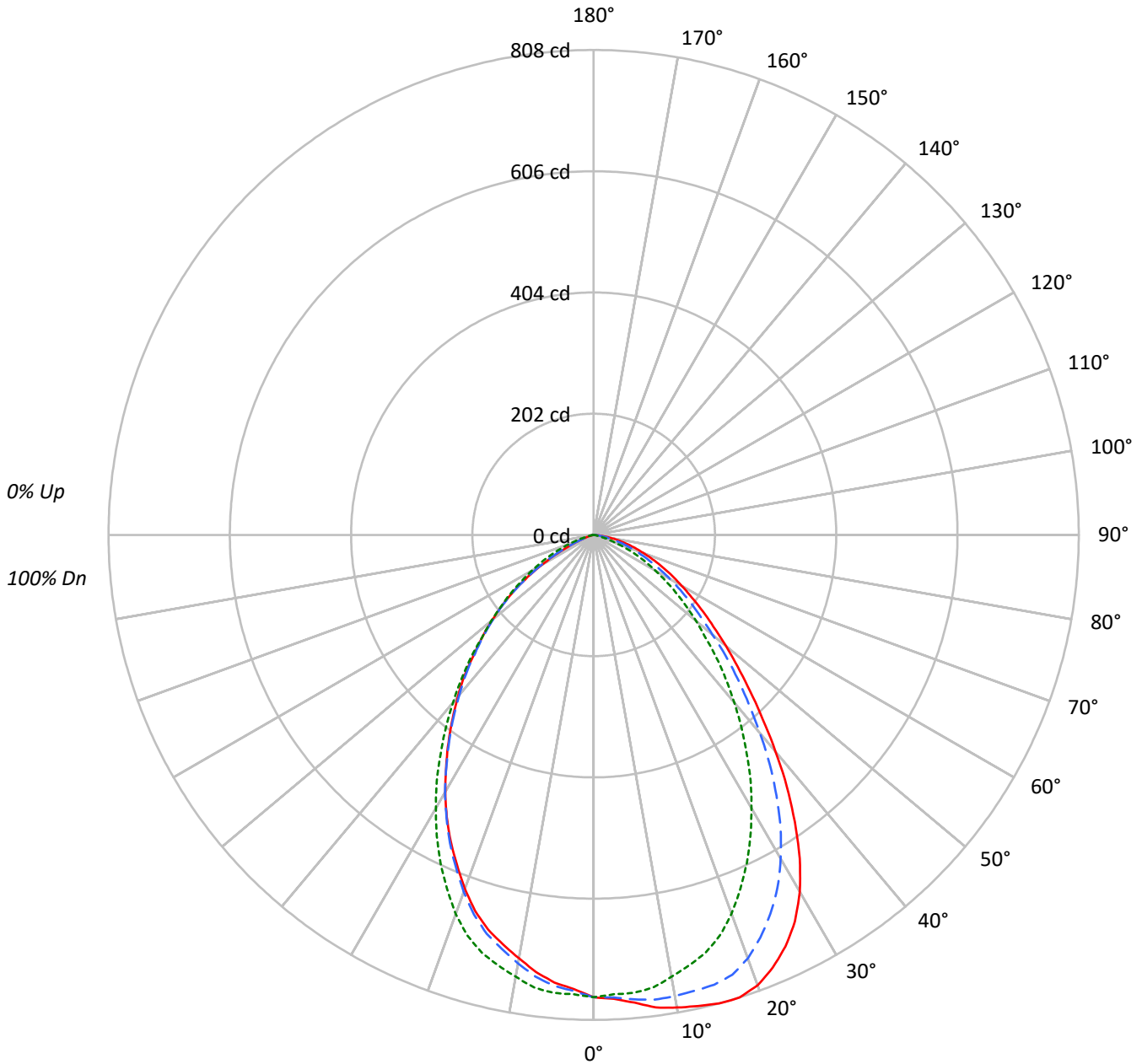
Lumens per Lamp: N/A
Luminaire Lumens: 1372.7 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | 89 | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | 78 | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | 69 | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | 61 | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | 54 | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | 49 | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | 44 | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | 40 | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | 37 | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 42228 | 42228 | 42228 |
| 5° | 43044 | 42153 | 41195 |
| 10° | 44510 | 41610 | 39868 |
| 15° | 45869 | 40891 | 38615 |
| 20° | 46583 | 39186 | 36596 |
| 25° | 45747 | 36504 | 34079 |
| 30° | 43481 | 33265 | 31277 |
| 35° | 39083 | 29727 | 28201 |
| 40° | 33727 | 26049 | 25197 |
| 45° | 28553 | 22429 | 21839 |
| 50° | 24494 | 18942 | 18763 |
| 55° | 21227 | 15942 | 15330 |
| 60° | 18529 | 12938 | 10931 |
| 65° | 16292 | 9988 | 6032 |
| 70° | 14057 | 6604 | 2949 |
| 75° | 11925 | 3219 | 1144 |
| 80° | 9250 | 1357 | 695 |
| 85° | 5409 | 692 | 692 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.7 | 5.3 |
| 10°-20° | 205.6 | 15.0 |
| 20°-30° | 289.5 | 21.1 |
| 30°-40° | 295.8 | 21.5 |
| 40°-50° | 238.5 | 17.4 |
| 50°-60° | 159.9 | 11.7 |
| 60°-70° | 80.9 | 5.9 |
| 70°-80° | 25.9 | 1.9 |
| 80°-90° | 4.0 | 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° | 567.7 | 41.4 |
| 0°-40° | 863.5 | 62.9 |
| 0°-60° | 1261.9 | 91.9 |
| 0°-90° | 1372.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1372.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 770 | 770 | 770 | 770 | 770 | |
| 5° | 782 | 777 | 766 | 754 | 749 | 75 |
| 15° | 808 | 776 | 720 | 688 | 680 | 228 |
| 25° | 756 | 697 | 604 | 567 | 563 | 346 |
| 35° | 584 | 531 | 444 | 419 | 421 | 363 |
| 45° | 368 | 339 | 289 | 280 | 282 | 286 |
| 55° | 222 | 197 | 167 | 159 | 160 | 200 |
| 65° | 126 | 104 | 77 | 51 | 46 | 125 |
| 75° | 56 | 40 | 15 | 5 | 5 | 60 |
| 85° | 9 | 4 | 1 | 1 | 1 | 12 |
| 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° | 770.3 | 770.3 | 770.3 | 770.3 | 770.3 | 770.3 | 770.3 | 770.3 | 770.3 |
| 2.5° | 773.6 | 772.5 | 771.3 | 769.2 | 766.0 | 762.7 | 760.6 | 758.4 | 757.3 |
| 5° | 782.2 | 780.1 | 776.8 | 772.5 | 766.0 | 758.4 | 754.1 | 749.8 | 748.6 |
| 7.5° | 794.2 | 789.8 | 781.1 | 771.3 | 760.6 | 749.8 | 742.2 | 737.9 | 734.6 |
| 10° | 799.6 | 792.0 | 780.1 | 763.9 | 747.5 | 734.6 | 724.8 | 718.3 | 716.2 |
| 12.5° | 803.9 | 795.2 | 777.9 | 756.3 | 734.6 | 717.2 | 706.4 | 701.0 | 698.8 |
| 15° | 808.2 | 799.6 | 775.8 | 747.5 | 720.5 | 699.8 | 687.9 | 682.6 | 680.4 |
| 17.5° | 808.2 | 796.3 | 768.2 | 732.4 | 699.8 | 675.0 | 663.1 | 657.6 | 656.6 |
| 20° | 798.5 | 785.5 | 750.8 | 708.6 | 671.7 | 643.5 | 632.8 | 629.5 | 627.3 |
| 22.5° | 780.1 | 764.9 | 725.9 | 678.3 | 638.1 | 611.1 | 599.2 | 597.0 | 594.9 |
| 25° | 756.3 | 741.0 | 696.7 | 645.7 | 603.5 | 576.4 | 566.6 | 564.4 | 563.4 |
| 27.5° | 725.9 | 709.6 | 663.1 | 611.1 | 565.6 | 539.6 | 530.8 | 530.8 | 529.8 |
| 30° | 686.9 | 668.5 | 623.0 | 571.0 | 525.5 | 501.7 | 495.1 | 495.1 | 494.1 |
| 32.5° | 639.2 | 620.8 | 579.6 | 529.8 | 486.5 | 461.5 | 456.2 | 458.3 | 457.2 |
| 35° | 584.0 | 568.7 | 530.8 | 482.1 | 444.2 | 421.4 | 419.3 | 421.4 | 421.4 |
| 37.5° | 528.7 | 514.6 | 482.1 | 439.9 | 404.1 | 383.5 | 383.5 | 386.8 | 385.7 |
| 40° | 471.3 | 460.5 | 430.2 | 393.3 | 364.0 | 349.9 | 347.8 | 351.1 | 352.1 |
| 42.5° | 417.1 | 408.5 | 382.5 | 352.1 | 326.1 | 312.0 | 315.3 | 317.5 | 318.5 |
| 45° | 368.3 | 359.7 | 339.1 | 307.7 | 289.3 | 279.6 | 279.6 | 282.7 | 281.7 |
| 47.5° | 325.1 | 318.5 | 297.9 | 267.6 | 251.4 | 247.0 | 249.1 | 251.4 | 251.4 |
| 50° | 287.2 | 277.4 | 257.9 | 234.0 | 222.1 | 216.7 | 218.8 | 220.0 | 220.0 |
| 52.5° | 251.4 | 244.8 | 225.3 | 203.7 | 192.8 | 189.5 | 189.5 | 190.7 | 190.7 |
| 55° | 222.1 | 214.5 | 197.1 | 175.5 | 166.8 | 162.5 | 159.2 | 158.2 | 160.4 |
| 57.5° | 194.0 | 187.4 | 171.2 | 150.6 | 140.9 | 136.5 | 130.0 | 127.8 | 130.0 |
| 60° | 169.0 | 163.6 | 147.3 | 127.8 | 118.0 | 109.4 | 101.8 | 97.5 | 99.7 |
| 62.5° | 147.3 | 140.9 | 124.6 | 108.4 | 97.5 | 87.7 | 75.8 | 69.3 | 72.6 |
| 65° | 125.6 | 120.3 | 104.0 | 87.7 | 77.0 | 65.0 | 51.0 | 46.5 | 46.5 |
| 67.5° | 106.1 | 100.8 | 85.6 | 71.5 | 58.5 | 44.4 | 31.4 | 30.3 | 31.4 |
| 70° | 87.7 | 82.3 | 69.3 | 55.3 | 41.2 | 27.1 | 18.4 | 18.4 | 18.4 |
| 72.5° | 72.6 | 66.1 | 54.1 | 40.1 | 26.0 | 14.1 | 9.8 | 10.8 | 10.8 |
| 75° | 56.3 | 51.0 | 40.1 | 27.1 | 15.2 | 6.5 | 5.4 | 5.4 | 5.4 |
| 77.5° | 42.2 | 37.9 | 28.1 | 17.4 | 7.6 | 2.2 | 2.2 | 2.2 | 2.2 |
| 80° | 29.3 | 25.0 | 18.4 | 10.8 | 4.3 | 2.2 | 2.2 | 2.2 | 2.2 |
| 82.5° | 17.4 | 15.2 | 10.8 | 5.4 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 |
| 85° | 8.6 | 7.6 | 4.3 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 87.5° | 2.2 | 2.2 | 1.1 | 1.1 | 0.0 | 1.1 | 1.1 | 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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