

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: P581728

Luminaire Tested: **HCC6S15D010MB-HM60525830-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581728
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: HCC6S15D010MB-HM60525830-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

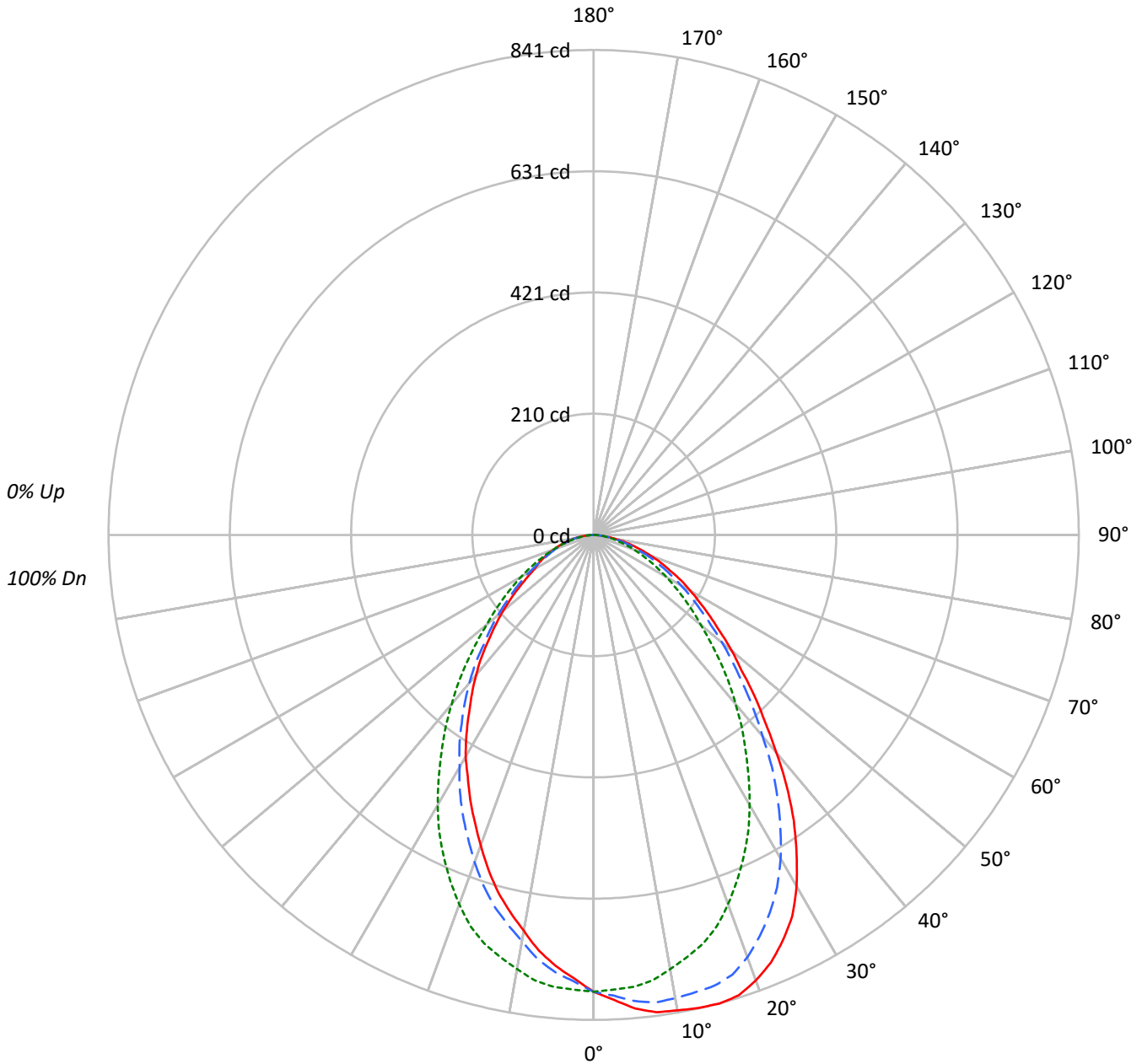
Lumens per Lamp: N/A
Luminaire Lumens: 1475.8 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 43429 | 43429 | 43429 |
| 5° | 45355 | 43303 | 41311 |
| 10° | 46598 | 42557 | 38816 |
| 15° | 47747 | 41635 | 36368 |
| 20° | 47960 | 39746 | 33405 |
| 25° | 46950 | 37218 | 30631 |
| 30° | 44545 | 34220 | 28080 |
| 35° | 40462 | 30758 | 25190 |
| 40° | 35252 | 27394 | 22664 |
| 45° | 30507 | 23971 | 19925 |
| 50° | 26652 | 20648 | 17466 |
| 55° | 23540 | 18140 | 14977 |
| 60° | 21161 | 15909 | 12981 |
| 65° | 18951 | 13828 | 12582 |
| 70° | 16926 | 11781 | 11781 |
| 75° | 14678 | 9934 | 11056 |
| 80° | 11775 | 8429 | 10102 |
| 85° | 8051 | 7359 | 8680 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.5 | 5.0 |
| 10°-20° | 207.0 | 14.0 |
| 20°-30° | 288.5 | 19.5 |
| 30°-40° | 297.2 | 20.1 |
| 40°-50° | 246.3 | 16.7 |
| 50°-60° | 177.0 | 12.0 |
| 60°-70° | 112.7 | 7.6 |
| 70°-80° | 57.9 | 3.9 |
| 80°-90° | 14.7 | 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° | 569.9 | 38.6 |
| 0°-40° | 867.1 | 58.8 |
| 0°-60° | 1290.4 | 87.4 |
| 0°-90° | 1475.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1475.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 792 | 792 | 792 | 792 | 792 | |
| 5° | 824 | 811 | 787 | 761 | 751 | 79 |
| 15° | 841 | 809 | 734 | 666 | 641 | 237 |
| 25° | 776 | 723 | 615 | 536 | 506 | 356 |
| 35° | 605 | 556 | 460 | 399 | 376 | 376 |
| 45° | 394 | 366 | 309 | 270 | 257 | 305 |
| 55° | 246 | 226 | 190 | 168 | 157 | 222 |
| 65° | 146 | 130 | 107 | 93 | 97 | 146 |
| 75° | 69 | 60 | 47 | 49 | 52 | 74 |
| 85° | 13 | 12 | 12 | 13 | 14 | 16 |
| 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° | 792.2 | 792.2 | 792.2 | 792.2 | 792.2 | 792.2 | 792.2 | 792.2 | 792.2 |
| 2.5° | 807.2 | 804.0 | 799.7 | 795.4 | 789.1 | 781.6 | 775.2 | 773.0 | 769.9 |
| 5° | 824.2 | 819.9 | 811.4 | 800.7 | 786.9 | 773.0 | 761.4 | 753.9 | 750.7 |
| 7.5° | 834.9 | 829.6 | 817.9 | 799.7 | 779.4 | 759.2 | 742.2 | 731.5 | 727.2 |
| 10° | 837.1 | 831.7 | 815.7 | 791.2 | 764.5 | 736.8 | 715.5 | 702.7 | 697.3 |
| 12.5° | 840.2 | 832.7 | 812.5 | 783.7 | 749.6 | 717.7 | 691.0 | 675.0 | 669.6 |
| 15° | 841.3 | 832.7 | 809.3 | 774.1 | 733.6 | 695.2 | 666.5 | 647.3 | 640.8 |
| 17.5° | 837.1 | 827.4 | 799.7 | 757.0 | 711.2 | 670.7 | 636.6 | 616.3 | 607.8 |
| 20° | 822.1 | 811.4 | 779.4 | 731.5 | 681.3 | 638.7 | 603.5 | 582.1 | 572.6 |
| 22.5° | 802.9 | 789.1 | 752.8 | 701.7 | 649.3 | 604.6 | 569.4 | 548.1 | 538.4 |
| 25° | 776.2 | 763.5 | 723.0 | 668.5 | 615.3 | 568.3 | 536.3 | 513.9 | 506.4 |
| 27.5° | 745.4 | 730.4 | 688.8 | 634.5 | 580.1 | 533.1 | 502.2 | 481.9 | 472.4 |
| 30° | 703.7 | 689.9 | 648.3 | 593.9 | 540.6 | 496.9 | 464.9 | 447.9 | 443.6 |
| 32.5° | 654.7 | 643.0 | 602.5 | 551.3 | 500.1 | 459.6 | 432.9 | 414.7 | 410.5 |
| 35° | 604.6 | 590.8 | 555.6 | 507.6 | 459.6 | 423.4 | 398.8 | 382.8 | 376.4 |
| 37.5° | 550.2 | 537.4 | 507.6 | 464.9 | 422.2 | 388.2 | 366.8 | 353.0 | 346.5 |
| 40° | 492.6 | 483.1 | 455.2 | 421.2 | 382.8 | 353.0 | 334.8 | 323.1 | 316.7 |
| 42.5° | 439.4 | 429.7 | 410.5 | 378.5 | 346.5 | 319.8 | 303.8 | 293.3 | 287.9 |
| 45° | 393.5 | 384.9 | 365.7 | 338.0 | 309.2 | 286.8 | 269.8 | 262.3 | 257.0 |
| 47.5° | 347.7 | 343.3 | 326.3 | 300.7 | 274.0 | 254.8 | 243.1 | 234.6 | 230.3 |
| 50° | 312.5 | 307.1 | 291.1 | 264.5 | 242.1 | 227.1 | 216.4 | 209.0 | 204.8 |
| 52.5° | 276.1 | 270.8 | 255.9 | 233.5 | 215.4 | 201.6 | 190.9 | 184.4 | 180.2 |
| 55° | 246.3 | 242.1 | 226.1 | 205.8 | 189.8 | 178.1 | 168.4 | 161.1 | 156.7 |
| 57.5° | 218.6 | 214.3 | 199.4 | 180.2 | 166.4 | 155.7 | 147.1 | 140.7 | 135.4 |
| 60° | 193.0 | 189.8 | 174.9 | 156.7 | 145.1 | 134.4 | 126.9 | 121.6 | 118.4 |
| 62.5° | 170.6 | 164.2 | 151.4 | 135.4 | 124.7 | 116.2 | 108.7 | 105.6 | 107.7 |
| 65° | 146.1 | 142.9 | 130.1 | 116.2 | 106.6 | 98.1 | 92.7 | 94.9 | 97.0 |
| 67.5° | 125.9 | 121.6 | 110.9 | 98.1 | 89.6 | 83.2 | 80.0 | 84.2 | 85.4 |
| 70° | 105.6 | 101.2 | 91.7 | 81.0 | 73.5 | 69.3 | 69.3 | 72.5 | 73.5 |
| 72.5° | 86.4 | 83.2 | 74.7 | 66.1 | 60.7 | 57.5 | 59.7 | 61.9 | 62.9 |
| 75° | 69.3 | 66.1 | 59.7 | 52.2 | 46.9 | 46.9 | 49.0 | 51.2 | 52.2 |
| 77.5° | 53.3 | 51.2 | 44.8 | 39.5 | 37.3 | 37.3 | 39.5 | 40.5 | 41.5 |
| 80° | 37.3 | 35.2 | 32.0 | 28.8 | 26.7 | 28.8 | 30.9 | 30.9 | 32.0 |
| 82.5° | 24.5 | 23.5 | 21.3 | 19.2 | 19.2 | 20.2 | 21.3 | 22.4 | 22.4 |
| 85° | 12.8 | 12.8 | 11.7 | 10.7 | 11.7 | 12.8 | 12.8 | 13.8 | 13.8 |
| 87.5° | 4.3 | 4.3 | 4.3 | 4.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| 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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