

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: P581703

Luminaire Tested: **HCC6W15D010MB-HM60525827-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W15D010MB-HM60525827-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

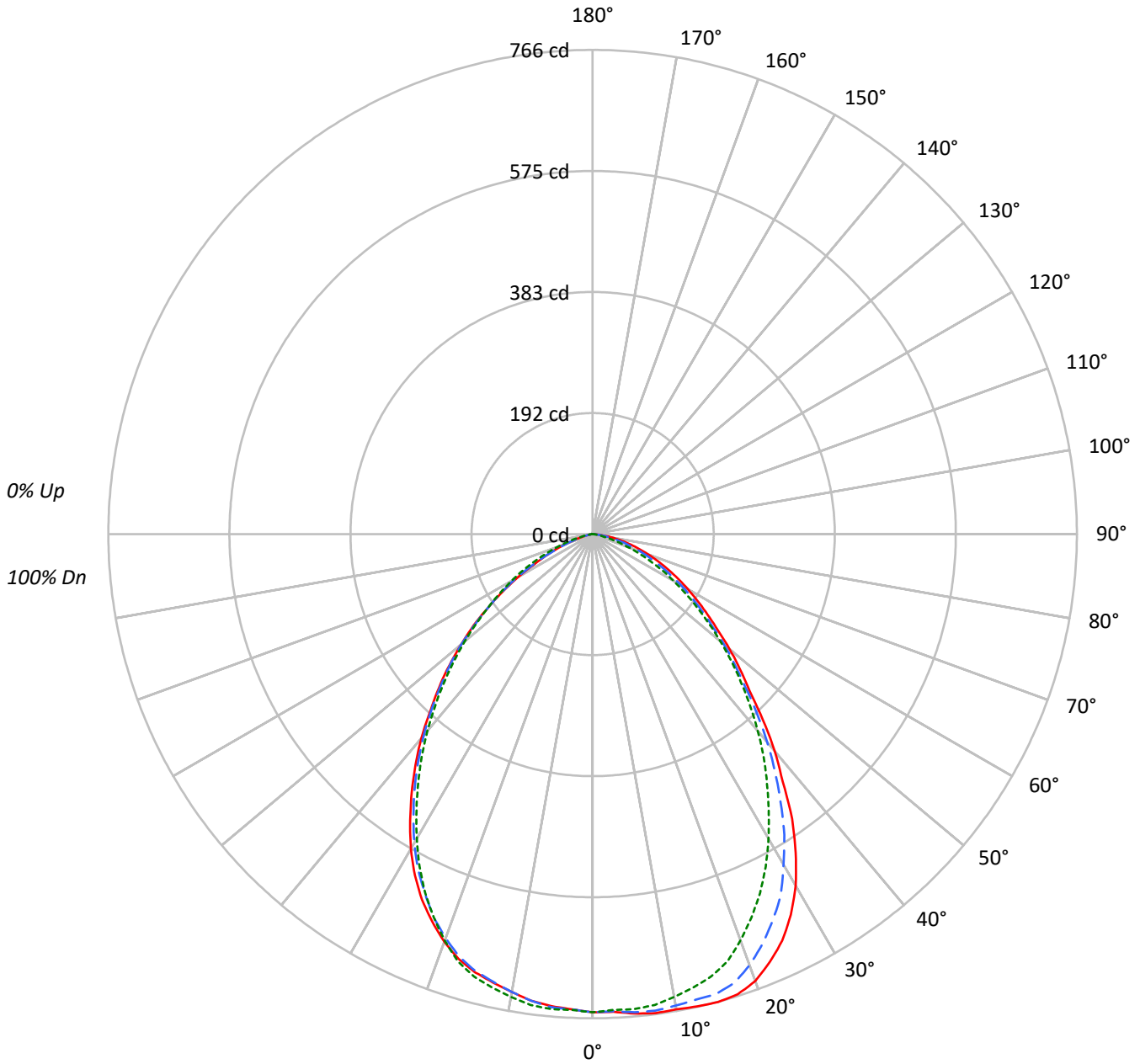
Lumens per Lamp: N/A
Luminaire Lumens: 1482.3 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | 88 | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | 77 | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | 67 | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | 59 | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | 47 | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | 42 | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | 38 | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | 35 | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 41471 | 41471 | 41471 |
| 5° | 41900 | 41514 | 41250 |
| 10° | 42495 | 41388 | 40948 |
| 15° | 43496 | 41130 | 40738 |
| 20° | 43900 | 39909 | 40026 |
| 25° | 42934 | 37895 | 38615 |
| 30° | 40664 | 35208 | 36398 |
| 35° | 36821 | 32177 | 33375 |
| 40° | 32067 | 29083 | 30149 |
| 45° | 27204 | 25747 | 26669 |
| 50° | 24093 | 22490 | 23087 |
| 55° | 21227 | 19230 | 19134 |
| 60° | 19023 | 16194 | 14900 |
| 65° | 16980 | 12985 | 10676 |
| 70° | 14938 | 9377 | 6684 |
| 75° | 12603 | 5676 | 3770 |
| 80° | 9723 | 2494 | 1578 |
| 85° | 5661 | 629 | 629 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.8 | 4.8 |
| 10°-20° | 206.4 | 13.9 |
| 20°-30° | 298.3 | 20.1 |
| 30°-40° | 313.9 | 21.2 |
| 40°-50° | 263.9 | 17.8 |
| 50°-60° | 185.2 | 12.5 |
| 60°-70° | 101.9 | 6.9 |
| 70°-80° | 36.2 | 2.4 |
| 80°-90° | 4.7 | 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° | 576.5 | 38.9 |
| 0°-40° | 890.4 | 60.1 |
| 0°-60° | 1339.5 | 90.4 |
| 0°-90° | 1482.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1482.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 756 | 756 | 756 | 756 | 756 | |
| 5° | 761 | 759 | 754 | 752 | 750 | 73 |
| 15° | 766 | 754 | 725 | 716 | 718 | 216 |
| 25° | 710 | 674 | 626 | 628 | 638 | 325 |
| 35° | 550 | 518 | 481 | 491 | 499 | 341 |
| 45° | 351 | 341 | 332 | 340 | 344 | 275 |
| 55° | 222 | 210 | 201 | 201 | 200 | 200 |
| 65° | 131 | 117 | 100 | 82 | 82 | 130 |
| 75° | 60 | 48 | 27 | 18 | 18 | 64 |
| 85° | 9 | 5 | 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° | 756.5 | 756.5 | 756.5 | 756.5 | 756.5 | 756.5 | 756.5 | 756.5 | 756.5 |
| 2.5° | 756.5 | 756.5 | 755.5 | 755.5 | 753.5 | 753.5 | 752.5 | 752.5 | 752.5 |
| 5° | 761.4 | 761.4 | 759.4 | 756.5 | 754.4 | 751.5 | 751.5 | 750.5 | 749.6 |
| 7.5° | 764.4 | 763.4 | 760.4 | 756.5 | 751.5 | 746.5 | 744.6 | 745.6 | 744.6 |
| 10° | 763.4 | 761.4 | 757.4 | 749.6 | 743.5 | 736.6 | 735.6 | 734.7 | 735.6 |
| 12.5° | 765.3 | 762.4 | 754.4 | 744.6 | 734.7 | 726.7 | 725.7 | 725.7 | 726.7 |
| 15° | 766.4 | 763.4 | 753.5 | 738.5 | 724.7 | 716.8 | 715.8 | 716.8 | 717.8 |
| 17.5° | 763.4 | 759.4 | 744.6 | 724.7 | 708.8 | 701.0 | 701.0 | 702.9 | 704.9 |
| 20° | 752.5 | 746.5 | 725.7 | 701.9 | 684.1 | 678.2 | 680.1 | 684.1 | 686.1 |
| 22.5° | 732.6 | 725.7 | 701.9 | 675.1 | 656.3 | 651.4 | 656.3 | 661.3 | 663.3 |
| 25° | 709.8 | 701.9 | 674.2 | 646.4 | 626.5 | 620.6 | 627.5 | 635.5 | 638.4 |
| 27.5° | 679.1 | 670.2 | 644.5 | 612.7 | 592.8 | 589.9 | 597.8 | 606.8 | 608.7 |
| 30° | 642.4 | 632.5 | 603.8 | 574.0 | 556.2 | 555.2 | 564.1 | 572.0 | 575.0 |
| 32.5° | 597.8 | 589.0 | 564.1 | 534.4 | 518.5 | 518.5 | 527.4 | 534.4 | 537.3 |
| 35° | 550.2 | 540.4 | 518.5 | 493.7 | 480.8 | 481.8 | 490.8 | 495.7 | 498.7 |
| 37.5° | 493.7 | 490.8 | 473.9 | 453.1 | 444.1 | 446.2 | 453.1 | 457.1 | 460.0 |
| 40° | 448.1 | 440.2 | 429.3 | 412.5 | 406.4 | 408.5 | 415.4 | 419.4 | 421.3 |
| 42.5° | 398.5 | 393.6 | 384.7 | 372.7 | 368.8 | 371.8 | 377.7 | 380.7 | 379.7 |
| 45° | 350.9 | 349.9 | 341.1 | 334.1 | 332.1 | 336.1 | 340.0 | 343.0 | 344.0 |
| 47.5° | 316.2 | 312.2 | 304.4 | 299.4 | 297.4 | 301.3 | 305.3 | 307.4 | 307.4 |
| 50° | 282.5 | 278.6 | 270.7 | 265.7 | 263.7 | 267.6 | 270.7 | 272.6 | 270.7 |
| 52.5° | 248.8 | 244.9 | 237.9 | 232.0 | 231.0 | 233.0 | 233.9 | 234.9 | 237.0 |
| 55° | 222.1 | 218.1 | 210.2 | 203.3 | 201.2 | 202.3 | 201.2 | 201.2 | 200.2 |
| 57.5° | 196.4 | 192.4 | 184.4 | 176.5 | 173.5 | 172.5 | 169.6 | 168.5 | 167.5 |
| 60° | 173.5 | 168.5 | 160.6 | 151.6 | 147.7 | 143.8 | 138.8 | 135.9 | 135.9 |
| 62.5° | 151.6 | 146.8 | 137.8 | 129.8 | 123.9 | 117.0 | 109.1 | 105.1 | 105.1 |
| 65° | 130.9 | 126.9 | 117.0 | 108.1 | 100.1 | 91.3 | 82.3 | 80.4 | 82.3 |
| 67.5° | 111.0 | 107.0 | 97.2 | 88.2 | 78.3 | 67.4 | 59.5 | 59.5 | 61.5 |
| 70° | 93.2 | 89.2 | 80.4 | 69.3 | 58.5 | 47.6 | 41.7 | 41.7 | 41.7 |
| 72.5° | 76.4 | 72.4 | 62.4 | 52.6 | 41.7 | 30.8 | 27.8 | 28.7 | 27.8 |
| 75° | 59.5 | 56.5 | 47.6 | 36.7 | 26.8 | 18.8 | 17.8 | 16.8 | 17.8 |
| 77.5° | 44.6 | 41.7 | 33.7 | 23.8 | 14.9 | 10.9 | 9.9 | 9.9 | 9.9 |
| 80° | 30.8 | 27.8 | 21.8 | 13.8 | 7.9 | 5.0 | 5.0 | 5.0 | 5.0 |
| 82.5° | 18.8 | 15.9 | 11.9 | 6.9 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 85° | 9.0 | 6.9 | 5.0 | 1.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 87.5° | 1.9 | 1.9 | 1.0 | 1.0 | 0.0 | 1.0 | 1.0 | 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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