

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: P592704

Luminaire Tested: **HCC4W25D010MB-HM40525850-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W25D010MB-HM40525850-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

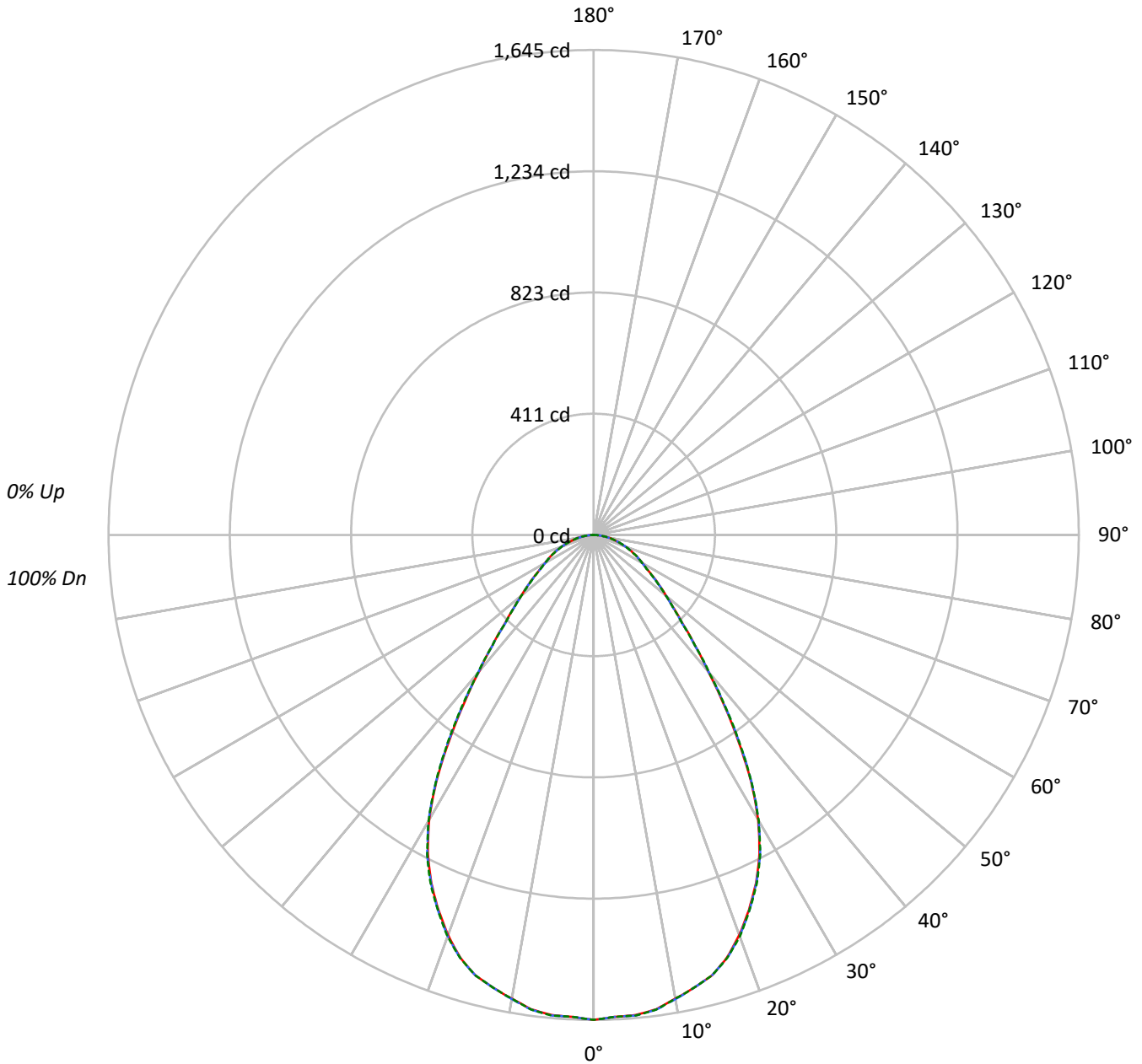
Lumens per Lamp: N/A
Luminaire Lumens: 2537.7 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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 | | | | | 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 | 89 | | | | | | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | | | | |
| 3 | 96 | 87 | 81 | 76 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | 81 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | |
| 4 | 90 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 | | | | | | | | |
| 5 | 84 | 73 | 65 | 60 | 82 | 72 | 65 | 59 | 70 | 64 | 59 | 68 | 63 | 58 | 66 | 62 | 58 | 56 | | | | | | | | |
| 6 | 78 | 67 | 59 | 54 | 77 | 66 | 59 | 54 | 64 | 58 | 53 | 63 | 57 | 53 | 61 | 56 | 53 | 51 | | | | | | | | |
| 7 | 73 | 62 | 54 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 49 | 58 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | | | | |
| 8 | 69 | 57 | 50 | 45 | 68 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 53 | 48 | 44 | 42 | | | | | | | | |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 | | | | | | | | |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 48 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 202879 | 202879 | 202879 |
| 5° | 202403 | 202614 | 202614 |
| 10° | 200047 | 200260 | 200047 |
| 15° | 197636 | 197636 | 197636 |
| 20° | 189529 | 189988 | 190211 |
| 25° | 177280 | 177511 | 177974 |
| 30° | 158849 | 159333 | 159333 |
| 35° | 128969 | 129978 | 130249 |
| 40° | 97334 | 97882 | 98139 |
| 45° | 74554 | 74240 | 74240 |
| 50° | 61425 | 61098 | 61098 |
| 55° | 52729 | 52364 | 52364 |
| 60° | 47044 | 46625 | 46625 |
| 65° | 44217 | 44217 | 44217 |
| 70° | 41113 | 41113 | 41113 |
| 75° | 37363 | 38126 | 37363 |
| 80° | 35019 | 33811 | 35019 |
| 85° | 28871 | 28871 | 28871 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 155.0 | 6.1 |
| 10°-20° | 433.7 | 17.1 |
| 20°-30° | 595.9 | 23.5 |
| 30°-40° | 535.8 | 21.1 |
| 40°-50° | 338.6 | 13.3 |
| 50°-60° | 221.0 | 8.7 |
| 60°-70° | 149.7 | 5.9 |
| 70°-80° | 84.3 | 3.3 |
| 80°-90° | 23.7 | 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° | 1184.6 | 46.7 |
| 0°-40° | 1720.4 | 67.8 |
| 0°-60° | 2280.0 | 89.8 |
| 0°-90° | 2537.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2537.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1645 | 1645 | 1645 | 1645 | 1645 | |
| 5° | 1635 | 1635 | 1636 | 1636 | 1636 | 155 |
| 15° | 1548 | 1548 | 1548 | 1548 | 1548 | 433 |
| 25° | 1303 | 1304 | 1304 | 1308 | 1308 | 594 |
| 35° | 856 | 860 | 863 | 867 | 865 | 533 |
| 45° | 427 | 426 | 426 | 426 | 426 | 339 |
| 55° | 245 | 245 | 244 | 245 | 244 | 222 |
| 65° | 152 | 152 | 152 | 152 | 152 | 150 |
| 75° | 78 | 80 | 80 | 80 | 78 | 84 |
| 85° | 20 | 20 | 20 | 20 | 20 | 24 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1644.8 | 1644.8 | 1644.8 | 1644.8 | 1644.8 |
| 2.5° | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 |
| 5° | 1634.7 | 1634.7 | 1636.4 | 1636.4 | 1636.4 |
| 7.5° | 1622.7 | 1624.4 | 1624.4 | 1624.4 | 1624.4 |
| 10° | 1597.2 | 1597.2 | 1598.9 | 1598.9 | 1597.2 |
| 12.5° | 1573.4 | 1573.4 | 1573.4 | 1575.1 | 1573.4 |
| 15° | 1547.7 | 1547.7 | 1547.7 | 1547.7 | 1547.7 |
| 17.5° | 1503.5 | 1505.2 | 1505.2 | 1505.2 | 1505.2 |
| 20° | 1443.9 | 1447.4 | 1447.4 | 1449.1 | 1449.1 |
| 22.5° | 1375.8 | 1377.5 | 1379.2 | 1380.9 | 1379.2 |
| 25° | 1302.6 | 1304.3 | 1304.3 | 1307.7 | 1307.7 |
| 27.5° | 1217.4 | 1219.2 | 1222.6 | 1222.6 | 1222.6 |
| 30° | 1115.3 | 1117.0 | 1118.7 | 1118.7 | 1118.7 |
| 32.5° | 994.4 | 994.4 | 997.8 | 999.5 | 997.8 |
| 35° | 856.5 | 859.8 | 863.2 | 866.7 | 865.0 |
| 37.5° | 725.4 | 728.8 | 730.5 | 730.5 | 732.2 |
| 40° | 604.5 | 607.9 | 607.9 | 611.2 | 609.5 |
| 42.5° | 509.1 | 507.4 | 507.4 | 510.9 | 509.1 |
| 45° | 427.4 | 425.6 | 425.6 | 425.6 | 425.6 |
| 47.5° | 367.8 | 366.1 | 366.1 | 366.1 | 366.1 |
| 50° | 320.1 | 318.4 | 318.4 | 318.4 | 318.4 |
| 52.5° | 280.9 | 279.2 | 279.2 | 279.2 | 277.5 |
| 55° | 245.2 | 245.2 | 243.5 | 245.2 | 243.5 |
| 57.5° | 212.8 | 212.8 | 212.8 | 212.8 | 212.8 |
| 60° | 190.7 | 189.0 | 189.0 | 189.0 | 189.0 |
| 62.5° | 170.3 | 170.3 | 170.3 | 170.3 | 170.3 |
| 65° | 151.5 | 151.5 | 151.5 | 151.5 | 151.5 |
| 67.5° | 132.8 | 131.1 | 132.8 | 132.8 | 131.1 |
| 70° | 114.0 | 112.3 | 114.0 | 114.0 | 114.0 |
| 72.5° | 95.4 | 95.4 | 95.4 | 97.1 | 95.4 |
| 75° | 78.4 | 80.0 | 80.0 | 80.0 | 78.4 |
| 77.5° | 63.0 | 64.7 | 63.0 | 63.0 | 63.0 |
| 80° | 49.3 | 47.6 | 47.6 | 47.6 | 49.3 |
| 82.5° | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 |
| 85° | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 87.5° | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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

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