

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: P582045

Luminaire Tested: **HCC6W25D010MW-HM60525840-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582045
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: HCC6W25D010MW-HM60525840-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

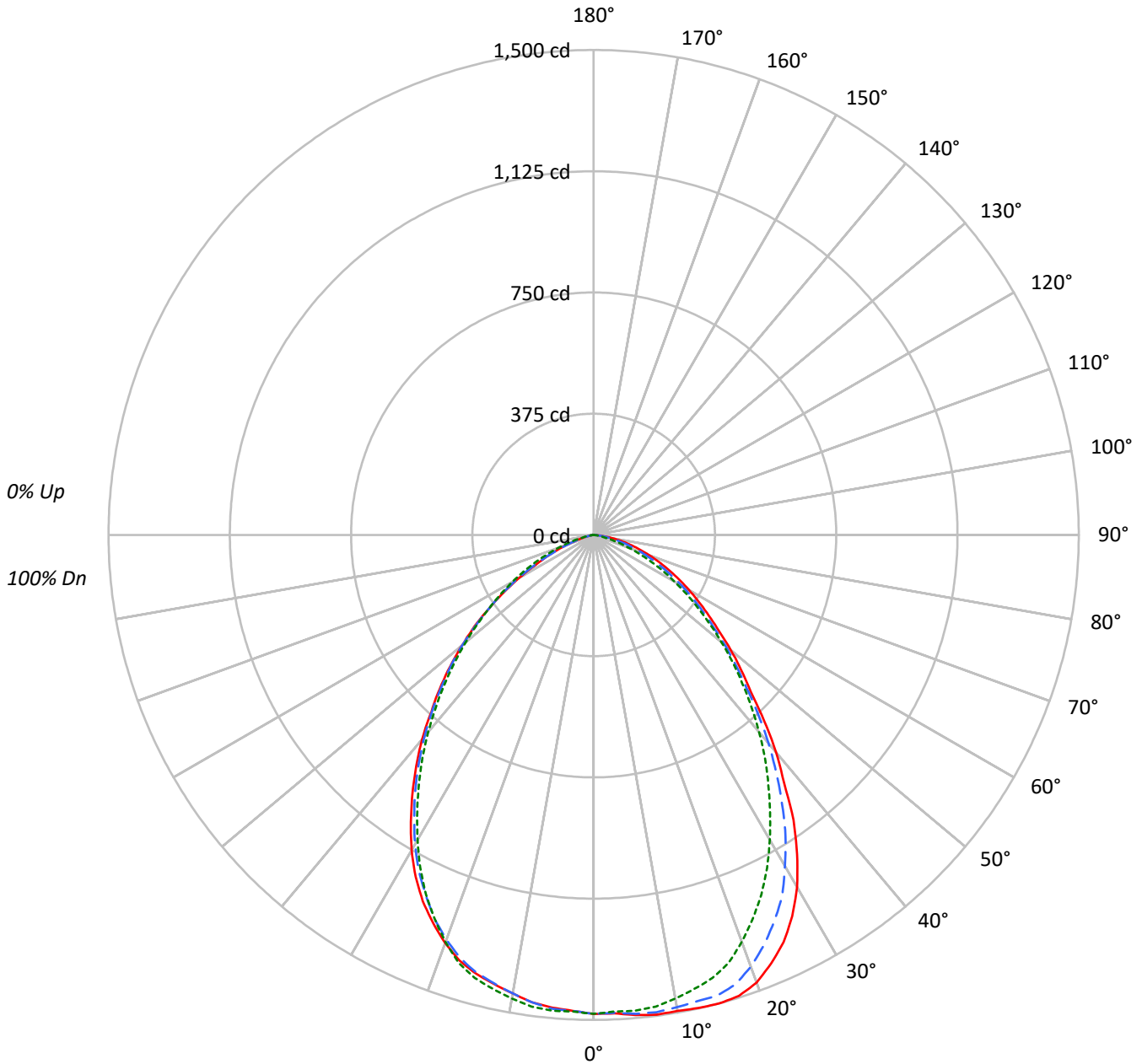
Lumens per Lamp: N/A
Luminaire Lumens: 2902.2 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): 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 | | | | | 70 | | | | | 50 | | | | | 30 | | | | |
| RW | 70 | 50 | 30 | 10 | 70 | 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 | 93 | 92 | 90 | 88 | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 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° | 81200 | 81200 | 81200 |
| 5° | 82038 | 81295 | 80756 |
| 10° | 83204 | 81044 | 80176 |
| 15° | 85159 | 80534 | 79762 |
| 20° | 85956 | 78144 | 78366 |
| 25° | 84065 | 74206 | 75615 |
| 30° | 79626 | 68935 | 71264 |
| 35° | 72096 | 63008 | 65350 |
| 40° | 62789 | 56957 | 59039 |
| 45° | 53269 | 50416 | 52222 |
| 50° | 47180 | 44041 | 45193 |
| 55° | 41556 | 37667 | 37475 |
| 60° | 37245 | 31708 | 29153 |
| 65° | 33233 | 25437 | 20897 |
| 70° | 29236 | 18352 | 13079 |
| 75° | 24676 | 11099 | 7413 |
| 80° | 18973 | 4893 | 3031 |
| 85° | 10944 | 1195 | 1195 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 140.6 | 4.8 |
| 10°-20° | 404.1 | 13.9 |
| 20°-30° | 584.1 | 20.1 |
| 30°-40° | 614.6 | 21.2 |
| 40°-50° | 516.7 | 17.8 |
| 50°-60° | 362.6 | 12.5 |
| 60°-70° | 199.5 | 6.9 |
| 70°-80° | 70.8 | 2.4 |
| 80°-90° | 9.2 | 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° | 1128.8 | 38.9 |
| 0°-40° | 1743.4 | 60.1 |
| 0°-60° | 2622.6 | 90.4 |
| 0°-90° | 2902.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2902.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1481 | 1481 | 1481 | 1481 | 1481 | |
| 5° | 1491 | 1487 | 1477 | 1471 | 1468 | 142 |
| 15° | 1500 | 1475 | 1419 | 1402 | 1405 | 423 |
| 25° | 1390 | 1320 | 1227 | 1229 | 1250 | 636 |
| 35° | 1077 | 1015 | 942 | 961 | 976 | 668 |
| 45° | 687 | 668 | 650 | 666 | 674 | 539 |
| 55° | 435 | 412 | 394 | 394 | 392 | 391 |
| 65° | 256 | 229 | 196 | 161 | 161 | 255 |
| 75° | 116 | 93 | 52 | 35 | 35 | 125 |
| 85° | 17 | 10 | 2 | 2 | 2 | 24 |
| 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° | 1481.2 | 1481.2 | 1481.2 | 1481.2 | 1481.2 | 1481.2 | 1481.2 | 1481.2 | 1481.2 |
| 2.5° | 1481.2 | 1481.2 | 1479.2 | 1479.2 | 1475.3 | 1475.3 | 1473.4 | 1473.4 | 1473.4 |
| 5° | 1490.8 | 1490.8 | 1486.9 | 1481.2 | 1477.3 | 1471.4 | 1471.4 | 1469.5 | 1467.5 |
| 7.5° | 1496.6 | 1494.7 | 1488.9 | 1481.2 | 1471.4 | 1461.7 | 1457.9 | 1459.7 | 1457.9 |
| 10° | 1494.7 | 1490.8 | 1483.1 | 1467.5 | 1455.9 | 1442.3 | 1440.3 | 1438.4 | 1440.3 |
| 12.5° | 1498.6 | 1492.7 | 1477.3 | 1457.9 | 1438.4 | 1422.9 | 1420.9 | 1420.9 | 1422.9 |
| 15° | 1500.5 | 1494.7 | 1475.3 | 1446.2 | 1419.0 | 1403.5 | 1401.5 | 1403.5 | 1405.4 |
| 17.5° | 1494.7 | 1486.9 | 1457.9 | 1419.0 | 1387.9 | 1372.4 | 1372.4 | 1376.3 | 1380.2 |
| 20° | 1473.4 | 1461.7 | 1420.9 | 1374.3 | 1339.5 | 1327.8 | 1331.7 | 1339.5 | 1343.3 |
| 22.5° | 1434.6 | 1420.9 | 1374.3 | 1321.9 | 1285.1 | 1275.3 | 1285.1 | 1294.7 | 1298.6 |
| 25° | 1389.8 | 1374.3 | 1320.0 | 1265.7 | 1226.8 | 1215.2 | 1228.8 | 1244.2 | 1250.1 |
| 27.5° | 1329.7 | 1312.3 | 1261.8 | 1199.6 | 1160.8 | 1155.0 | 1170.6 | 1188.0 | 1191.9 |
| 30° | 1257.9 | 1238.5 | 1182.2 | 1123.9 | 1089.0 | 1087.1 | 1104.5 | 1120.1 | 1125.8 |
| 32.5° | 1170.6 | 1153.0 | 1104.5 | 1046.3 | 1015.2 | 1015.2 | 1032.7 | 1046.3 | 1052.1 |
| 35° | 1077.3 | 1057.9 | 1015.2 | 966.7 | 941.5 | 943.4 | 960.9 | 970.6 | 976.5 |
| 37.5° | 966.7 | 960.9 | 927.8 | 887.1 | 869.6 | 873.5 | 887.1 | 894.9 | 900.7 |
| 40° | 877.4 | 861.9 | 840.5 | 807.6 | 795.9 | 799.8 | 813.3 | 821.1 | 825.0 |
| 42.5° | 780.4 | 770.6 | 753.2 | 729.9 | 722.1 | 728.0 | 739.6 | 745.4 | 743.5 |
| 45° | 687.1 | 685.3 | 667.7 | 654.2 | 650.3 | 658.1 | 665.8 | 671.6 | 673.6 |
| 47.5° | 619.2 | 611.5 | 595.9 | 586.3 | 582.4 | 590.2 | 597.9 | 601.8 | 601.8 |
| 50° | 553.2 | 545.4 | 529.9 | 520.2 | 516.4 | 524.1 | 529.9 | 533.8 | 529.9 |
| 52.5° | 487.3 | 479.5 | 465.9 | 454.2 | 452.3 | 456.2 | 458.1 | 460.1 | 464.0 |
| 55° | 434.8 | 427.0 | 411.5 | 398.0 | 394.1 | 395.9 | 394.1 | 394.1 | 392.1 |
| 57.5° | 384.3 | 376.5 | 361.1 | 345.6 | 339.7 | 337.8 | 331.9 | 330.0 | 328.0 |
| 60° | 339.7 | 330.0 | 314.5 | 297.0 | 289.2 | 281.4 | 271.8 | 265.9 | 265.9 |
| 62.5° | 297.0 | 287.3 | 269.8 | 254.2 | 242.7 | 229.0 | 213.5 | 205.7 | 205.7 |
| 65° | 256.2 | 248.5 | 229.0 | 211.6 | 196.1 | 178.6 | 161.1 | 157.3 | 161.1 |
| 67.5° | 217.4 | 209.6 | 190.2 | 172.8 | 153.4 | 131.9 | 116.5 | 116.5 | 120.4 |
| 70° | 182.4 | 174.7 | 157.3 | 135.8 | 114.5 | 93.2 | 81.6 | 81.6 | 81.6 |
| 72.5° | 149.5 | 141.7 | 122.3 | 102.9 | 81.6 | 60.1 | 54.4 | 56.3 | 54.4 |
| 75° | 116.5 | 110.6 | 93.2 | 71.8 | 52.4 | 36.8 | 35.0 | 33.0 | 35.0 |
| 77.5° | 87.3 | 81.6 | 66.0 | 46.6 | 29.1 | 21.3 | 19.4 | 19.4 | 19.4 |
| 80° | 60.1 | 54.4 | 42.7 | 27.2 | 15.5 | 9.6 | 9.6 | 9.6 | 9.6 |
| 82.5° | 36.8 | 31.1 | 23.3 | 13.5 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| 85° | 17.4 | 13.5 | 9.6 | 3.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 87.5° | 3.9 | 3.9 | 1.9 | 1.9 | 0.0 | 1.9 | 1.9 | 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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