

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: P593176

Luminaire Tested: **HCC6S25D010MB-HM60525850-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593176
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: HCC6S25D010MB-HM60525850-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

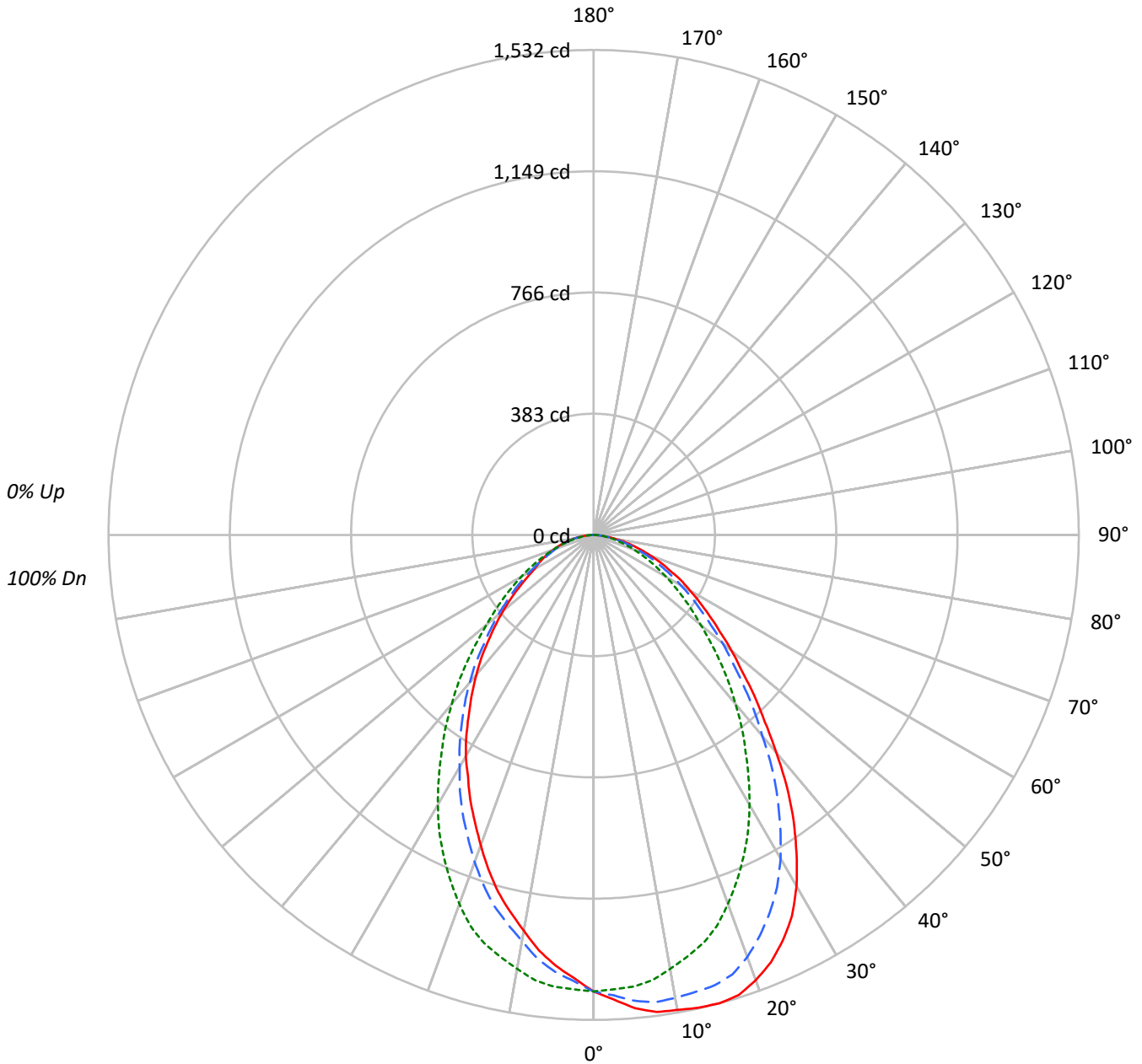
Lumens per Lamp: N/A
Luminaire Lumens: 2686.7 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 79067 | 79067 | 79067 |
| 5° | 82577 | 78841 | 75203 |
| 10° | 84829 | 77476 | 70668 |
| 15° | 86930 | 75801 | 66215 |
| 20° | 87315 | 72369 | 60818 |
| 25° | 85487 | 67752 | 55775 |
| 30° | 81101 | 62301 | 51122 |
| 35° | 73656 | 55988 | 45862 |
| 40° | 64185 | 49872 | 41256 |
| 45° | 55533 | 43648 | 36275 |
| 50° | 48502 | 37585 | 31794 |
| 55° | 42856 | 33031 | 27268 |
| 60° | 38517 | 28945 | 23627 |
| 65° | 34491 | 25178 | 22921 |
| 70° | 30806 | 21462 | 21462 |
| 75° | 26730 | 18110 | 20143 |
| 80° | 21436 | 15311 | 18405 |
| 85° | 14655 | 13398 | 15851 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 135.6 | 5.0 |
| 10°-20° | 376.8 | 14.0 |
| 20°-30° | 525.1 | 19.5 |
| 30°-40° | 541.1 | 20.1 |
| 40°-50° | 448.4 | 16.7 |
| 50°-60° | 322.3 | 12.0 |
| 60°-70° | 205.2 | 7.6 |
| 70°-80° | 105.4 | 3.9 |
| 80°-90° | 26.8 | 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° | 1037.5 | 38.6 |
| 0°-40° | 1578.6 | 58.8 |
| 0°-60° | 2349.3 | 87.4 |
| 0°-90° | 2686.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2686.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1442 | 1442 | 1442 | 1442 | 1442 | |
| 5° | 1501 | 1477 | 1433 | 1386 | 1367 | 144 |
| 15° | 1532 | 1473 | 1336 | 1213 | 1167 | 432 |
| 25° | 1413 | 1316 | 1120 | 976 | 922 | 648 |
| 35° | 1101 | 1011 | 837 | 726 | 685 | 684 |
| 45° | 716 | 666 | 563 | 491 | 468 | 554 |
| 55° | 448 | 412 | 346 | 307 | 285 | 404 |
| 65° | 266 | 237 | 194 | 169 | 177 | 266 |
| 75° | 126 | 109 | 86 | 89 | 95 | 135 |
| 85° | 23 | 21 | 21 | 23 | 25 | 30 |
| 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° | 1442.3 | 1442.3 | 1442.3 | 1442.3 | 1442.3 | 1442.3 | 1442.3 | 1442.3 | 1442.3 |
| 2.5° | 1469.5 | 1463.6 | 1455.9 | 1448.1 | 1436.6 | 1422.9 | 1411.3 | 1407.4 | 1401.6 |
| 5° | 1500.6 | 1492.8 | 1477.3 | 1457.9 | 1432.7 | 1407.4 | 1386.1 | 1372.4 | 1366.6 |
| 7.5° | 1520.0 | 1510.2 | 1488.9 | 1455.9 | 1419.0 | 1382.2 | 1351.1 | 1331.7 | 1323.9 |
| 10° | 1523.9 | 1514.1 | 1485.1 | 1440.3 | 1391.8 | 1341.3 | 1302.6 | 1279.3 | 1269.5 |
| 12.5° | 1529.7 | 1516.1 | 1479.2 | 1426.8 | 1364.6 | 1306.5 | 1257.9 | 1228.8 | 1219.0 |
| 15° | 1531.7 | 1516.1 | 1473.4 | 1409.4 | 1335.6 | 1265.7 | 1213.3 | 1178.3 | 1166.7 |
| 17.5° | 1523.9 | 1506.4 | 1455.9 | 1378.3 | 1294.9 | 1221.0 | 1158.9 | 1122.1 | 1106.5 |
| 20° | 1496.7 | 1477.3 | 1419.0 | 1331.7 | 1240.5 | 1162.8 | 1098.8 | 1059.9 | 1042.5 |
| 22.5° | 1461.7 | 1436.6 | 1370.5 | 1277.3 | 1182.2 | 1100.6 | 1036.6 | 997.8 | 980.3 |
| 25° | 1413.3 | 1390.0 | 1316.2 | 1217.2 | 1120.1 | 1034.7 | 976.5 | 935.6 | 922.1 |
| 27.5° | 1356.9 | 1329.7 | 1254.0 | 1155.0 | 1056.0 | 970.6 | 914.3 | 877.5 | 859.9 |
| 30° | 1281.2 | 1256.0 | 1180.2 | 1081.2 | 984.2 | 904.7 | 846.4 | 815.3 | 807.6 |
| 32.5° | 1191.9 | 1170.6 | 1096.8 | 1003.7 | 910.4 | 836.6 | 788.1 | 755.2 | 747.4 |
| 35° | 1100.6 | 1075.4 | 1011.4 | 924.0 | 836.6 | 770.7 | 726.0 | 696.9 | 685.3 |
| 37.5° | 1001.6 | 978.3 | 924.0 | 846.4 | 768.7 | 706.6 | 667.7 | 642.5 | 630.9 |
| 40° | 896.9 | 879.4 | 828.9 | 766.8 | 696.9 | 642.5 | 609.6 | 588.2 | 576.5 |
| 42.5° | 799.8 | 782.4 | 747.4 | 689.2 | 630.9 | 582.4 | 553.2 | 533.8 | 524.1 |
| 45° | 716.3 | 700.8 | 665.8 | 615.3 | 563.0 | 522.3 | 491.2 | 477.5 | 467.9 |
| 47.5° | 632.9 | 625.1 | 594.0 | 547.4 | 498.9 | 464.0 | 442.6 | 427.0 | 419.3 |
| 50° | 568.7 | 559.1 | 529.9 | 481.4 | 440.7 | 413.5 | 394.1 | 380.5 | 372.8 |
| 52.5° | 502.8 | 493.1 | 465.9 | 425.1 | 392.1 | 366.9 | 347.5 | 335.8 | 328.0 |
| 55° | 448.4 | 440.7 | 411.5 | 374.6 | 345.6 | 324.2 | 306.7 | 293.1 | 285.3 |
| 57.5° | 398.0 | 390.2 | 363.0 | 328.0 | 302.9 | 283.4 | 267.9 | 256.2 | 246.6 |
| 60° | 351.3 | 345.6 | 318.4 | 285.3 | 264.0 | 244.6 | 231.1 | 221.3 | 215.5 |
| 62.5° | 310.6 | 299.0 | 275.7 | 246.6 | 227.2 | 211.6 | 198.0 | 192.2 | 196.1 |
| 65° | 265.9 | 260.1 | 236.8 | 211.6 | 194.1 | 178.6 | 168.9 | 172.8 | 176.7 |
| 67.5° | 229.0 | 221.3 | 201.9 | 178.6 | 163.0 | 151.4 | 145.6 | 153.4 | 155.2 |
| 70° | 192.2 | 184.4 | 166.9 | 147.5 | 133.9 | 126.2 | 126.2 | 131.9 | 133.9 |
| 72.5° | 157.3 | 151.4 | 135.8 | 120.4 | 110.6 | 104.9 | 108.8 | 112.6 | 114.5 |
| 75° | 126.2 | 120.4 | 108.8 | 95.1 | 85.5 | 85.5 | 89.3 | 93.2 | 95.1 |
| 77.5° | 97.1 | 93.2 | 81.6 | 71.8 | 67.9 | 67.9 | 71.8 | 73.8 | 75.7 |
| 80° | 67.9 | 64.0 | 58.3 | 52.4 | 48.5 | 52.4 | 56.3 | 56.3 | 58.3 |
| 82.5° | 44.6 | 42.7 | 38.8 | 35.0 | 35.0 | 36.8 | 38.8 | 40.7 | 40.7 |
| 85° | 23.3 | 23.3 | 21.3 | 19.4 | 21.3 | 23.3 | 23.3 | 25.2 | 25.2 |
| 87.5° | 7.8 | 7.8 | 7.8 | 7.8 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| 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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