

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: P581991

Luminaire Tested: **HCC6S25D010MB-HM60525827-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581991
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: HCC6S25D010MB-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

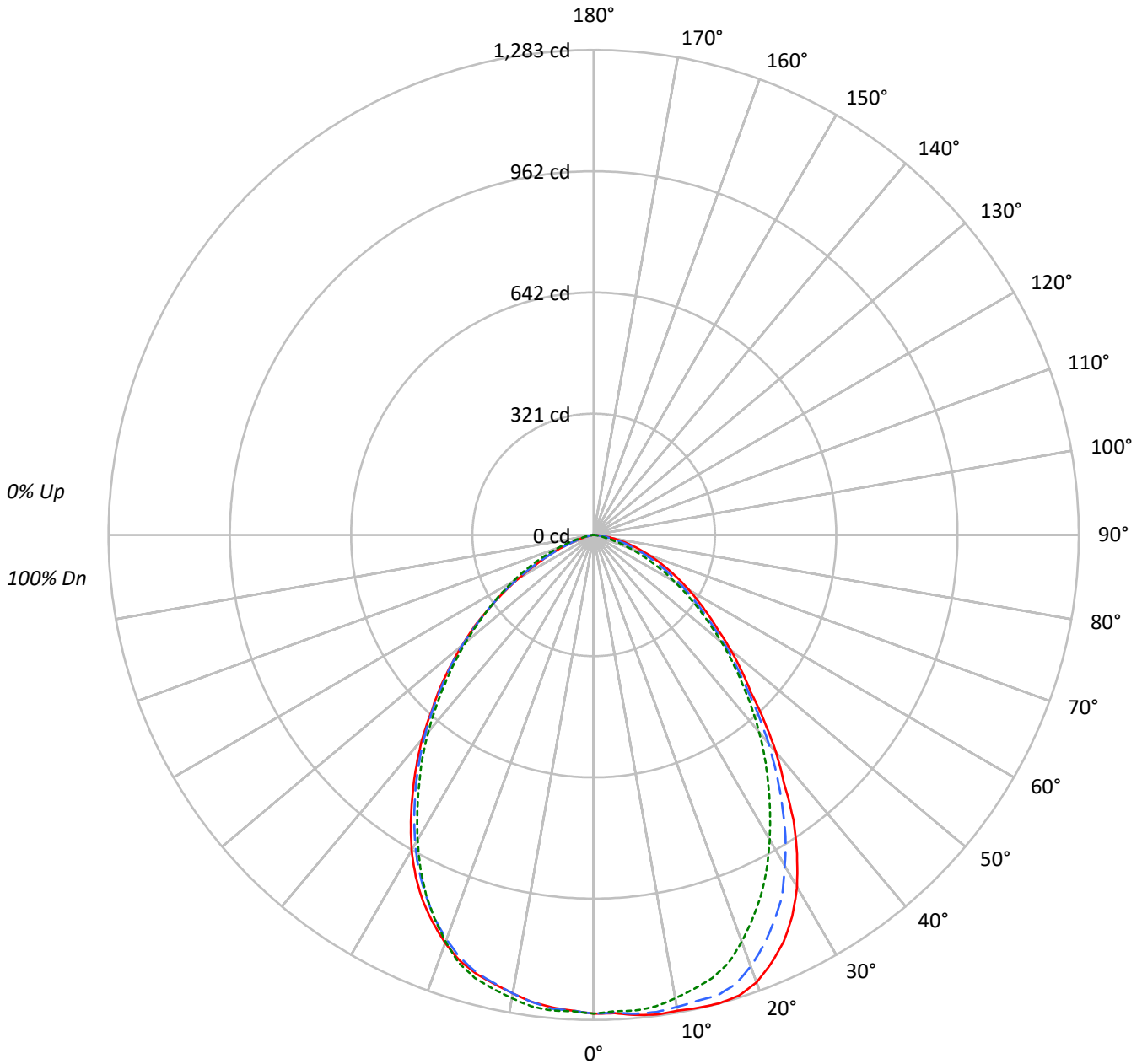
Lumens per Lamp: N/A
Luminaire Lumens: 2481.4 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | | | | | 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 | 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° | 69424 | 69424 | 69424 |
| 5° | 70146 | 69502 | 69051 |
| 10° | 71147 | 69298 | 68558 |
| 15° | 72810 | 68860 | 68196 |
| 20° | 73495 | 66809 | 67002 |
| 25° | 71877 | 63451 | 64655 |
| 30° | 68074 | 58939 | 60940 |
| 35° | 61650 | 53866 | 55874 |
| 40° | 53686 | 48698 | 50480 |
| 45° | 45547 | 43105 | 44648 |
| 50° | 40340 | 37645 | 38643 |
| 55° | 35535 | 32200 | 32047 |
| 60° | 31840 | 27114 | 24932 |
| 65° | 28408 | 21753 | 17862 |
| 70° | 25004 | 15708 | 11172 |
| 75° | 21096 | 9510 | 6312 |
| 80° | 16258 | 4199 | 2620 |
| 85° | 9372 | 1006 | 1006 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 120.2 | 4.8 |
| 10°-20° | 345.5 | 13.9 |
| 20°-30° | 499.4 | 20.1 |
| 30°-40° | 525.5 | 21.2 |
| 40°-50° | 441.8 | 17.8 |
| 50°-60° | 310.1 | 12.5 |
| 60°-70° | 170.6 | 6.9 |
| 70°-80° | 60.6 | 2.4 |
| 80°-90° | 7.9 | 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° | 965.1 | 38.9 |
| 0°-40° | 1490.6 | 60.1 |
| 0°-60° | 2242.4 | 90.4 |
| 0°-90° | 2481.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2481.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1266 | 1266 | 1266 | 1266 | 1266 | |
| 5° | 1275 | 1271 | 1263 | 1258 | 1255 | 122 |
| 15° | 1283 | 1261 | 1213 | 1198 | 1202 | 362 |
| 25° | 1188 | 1129 | 1049 | 1051 | 1069 | 544 |
| 35° | 921 | 868 | 805 | 822 | 835 | 571 |
| 45° | 588 | 571 | 556 | 569 | 576 | 461 |
| 55° | 372 | 352 | 337 | 337 | 335 | 335 |
| 65° | 219 | 196 | 168 | 138 | 138 | 218 |
| 75° | 100 | 80 | 45 | 30 | 30 | 107 |
| 85° | 15 | 8 | 2 | 2 | 2 | 21 |
| 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° | 1266.4 | 1266.4 | 1266.4 | 1266.4 | 1266.4 | 1266.4 | 1266.4 | 1266.4 | 1266.4 |
| 2.5° | 1266.4 | 1266.4 | 1264.8 | 1264.8 | 1261.4 | 1261.4 | 1259.8 | 1259.8 | 1259.8 |
| 5° | 1274.7 | 1274.7 | 1271.4 | 1266.4 | 1263.0 | 1258.1 | 1258.1 | 1256.4 | 1254.8 |
| 7.5° | 1279.7 | 1278.1 | 1273.0 | 1266.4 | 1258.1 | 1249.7 | 1246.5 | 1248.1 | 1246.5 |
| 10° | 1278.1 | 1274.7 | 1268.0 | 1254.8 | 1244.9 | 1233.2 | 1231.6 | 1229.8 | 1231.6 |
| 12.5° | 1281.3 | 1276.3 | 1263.0 | 1246.5 | 1229.8 | 1216.5 | 1214.9 | 1214.9 | 1216.5 |
| 15° | 1282.9 | 1278.1 | 1261.4 | 1236.5 | 1213.3 | 1200.0 | 1198.4 | 1200.0 | 1201.6 |
| 17.5° | 1278.1 | 1271.4 | 1246.5 | 1213.3 | 1186.7 | 1173.4 | 1173.4 | 1176.7 | 1180.1 |
| 20° | 1259.8 | 1249.7 | 1214.9 | 1175.1 | 1145.2 | 1135.2 | 1138.6 | 1145.2 | 1148.5 |
| 22.5° | 1226.6 | 1214.9 | 1175.1 | 1130.3 | 1098.8 | 1090.5 | 1098.8 | 1107.0 | 1110.4 |
| 25° | 1188.3 | 1175.1 | 1128.6 | 1082.1 | 1049.0 | 1039.0 | 1050.6 | 1063.9 | 1068.9 |
| 27.5° | 1137.0 | 1121.9 | 1078.8 | 1025.7 | 992.5 | 987.5 | 1000.8 | 1015.8 | 1019.1 |
| 30° | 1075.4 | 1058.9 | 1010.8 | 961.1 | 931.1 | 929.5 | 944.4 | 957.7 | 962.7 |
| 32.5° | 1000.8 | 985.9 | 944.4 | 894.6 | 868.1 | 868.1 | 883.0 | 894.6 | 899.5 |
| 35° | 921.2 | 904.5 | 868.1 | 826.6 | 804.9 | 806.7 | 821.6 | 829.9 | 834.9 |
| 37.5° | 826.6 | 821.6 | 793.4 | 758.4 | 743.5 | 746.9 | 758.4 | 765.1 | 770.1 |
| 40° | 750.2 | 736.9 | 718.7 | 690.4 | 680.5 | 683.8 | 695.4 | 702.1 | 705.4 |
| 42.5° | 667.2 | 659.0 | 643.9 | 624.1 | 617.5 | 622.4 | 632.4 | 637.4 | 635.6 |
| 45° | 587.5 | 585.9 | 571.0 | 559.3 | 556.0 | 562.6 | 569.2 | 574.2 | 575.9 |
| 47.5° | 529.5 | 522.9 | 509.6 | 501.2 | 497.9 | 504.6 | 511.2 | 514.5 | 514.5 |
| 50° | 473.0 | 466.4 | 453.1 | 444.8 | 441.4 | 448.1 | 453.1 | 456.5 | 453.1 |
| 52.5° | 416.6 | 410.0 | 398.3 | 388.4 | 386.7 | 390.1 | 391.7 | 393.3 | 396.7 |
| 55° | 371.8 | 365.1 | 351.8 | 340.2 | 336.9 | 338.6 | 336.9 | 336.9 | 335.3 |
| 57.5° | 328.7 | 322.0 | 308.7 | 295.5 | 290.4 | 288.8 | 283.8 | 282.2 | 280.5 |
| 60° | 290.4 | 282.2 | 268.9 | 254.0 | 247.3 | 240.7 | 232.3 | 227.4 | 227.4 |
| 62.5° | 254.0 | 245.6 | 230.7 | 217.4 | 207.5 | 195.8 | 182.6 | 175.9 | 175.9 |
| 65° | 219.0 | 212.5 | 195.8 | 180.9 | 167.7 | 152.7 | 137.7 | 134.4 | 137.7 |
| 67.5° | 185.9 | 179.3 | 162.6 | 147.7 | 131.1 | 112.9 | 99.6 | 99.6 | 102.9 |
| 70° | 156.0 | 149.4 | 134.4 | 116.2 | 98.0 | 79.7 | 69.7 | 69.7 | 69.7 |
| 72.5° | 127.8 | 121.2 | 104.6 | 88.0 | 69.7 | 51.5 | 46.5 | 48.1 | 46.5 |
| 75° | 99.6 | 94.6 | 79.7 | 61.4 | 44.9 | 31.6 | 29.8 | 28.2 | 29.8 |
| 77.5° | 74.7 | 69.7 | 56.4 | 39.8 | 24.9 | 18.3 | 16.5 | 16.5 | 16.5 |
| 80° | 51.5 | 46.5 | 36.5 | 23.2 | 13.3 | 8.3 | 8.3 | 8.3 | 8.3 |
| 82.5° | 31.6 | 26.6 | 19.9 | 11.7 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 85° | 14.9 | 11.7 | 8.3 | 3.3 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 87.5° | 3.3 | 3.3 | 1.6 | 1.6 | 0.0 | 1.6 | 1.6 | 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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Scaled Data Report



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

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