

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: P582033

Luminaire Tested: **HCC6S25D010BZ-HM60525835-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S25D010BZ-HM60525835-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

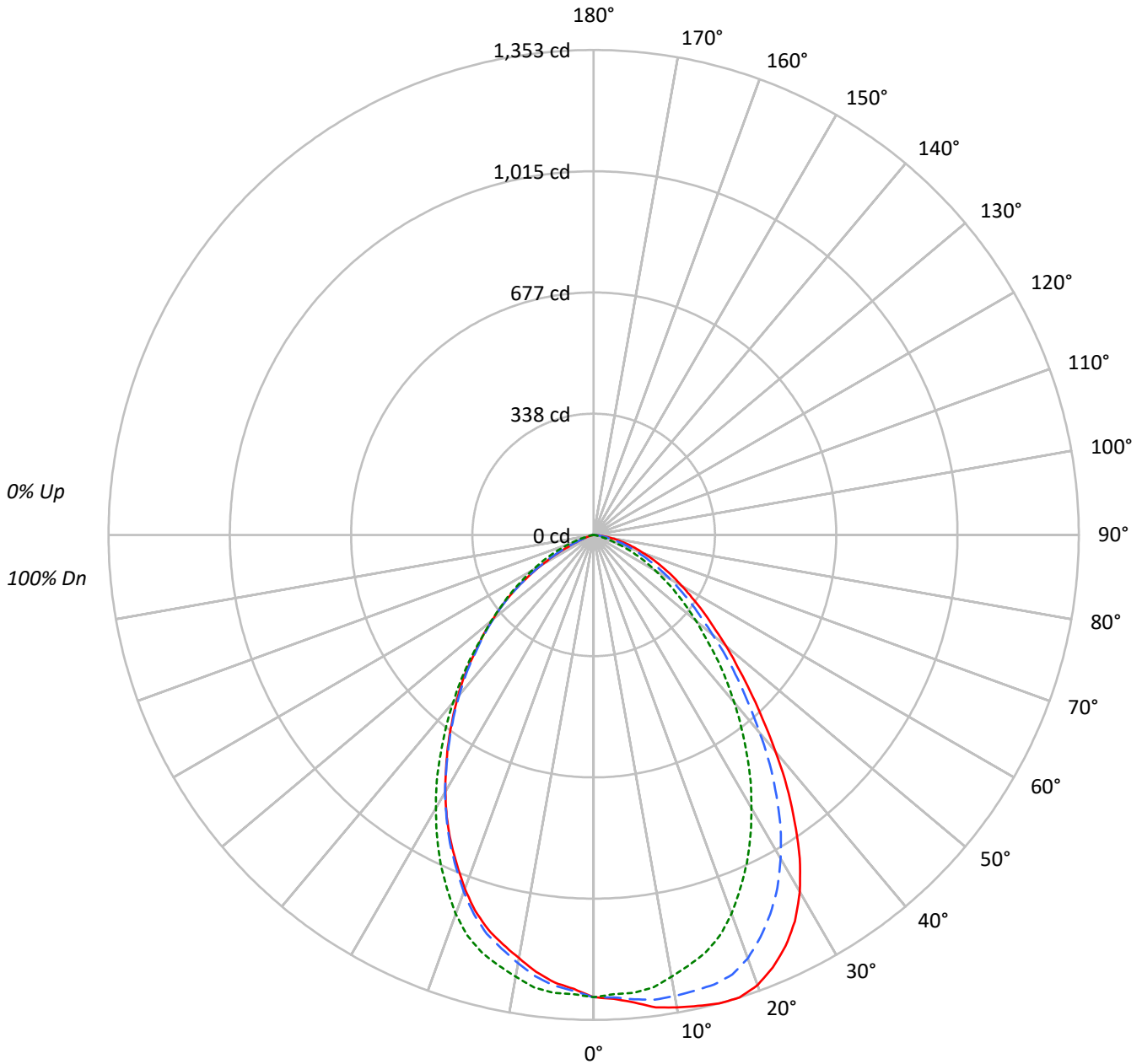
Lumens per Lamp: N/A
Luminaire Lumens: 2298.1 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 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 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | 89 | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | 78 | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | 69 | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | 61 | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | 54 | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | 49 | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | 44 | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | 40 | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | 37 | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 70696 | 70696 | 70696 |
| 5° | 72061 | 70564 | 68974 |
| 10° | 74514 | 69666 | 66738 |
| 15° | 76794 | 68451 | 64648 |
| 20° | 77981 | 65607 | 61261 |
| 25° | 76577 | 61110 | 57046 |
| 30° | 72790 | 55686 | 52356 |
| 35° | 65424 | 49771 | 47221 |
| 40° | 56463 | 43617 | 42186 |
| 45° | 47811 | 37547 | 36562 |
| 50° | 40997 | 31709 | 31410 |
| 55° | 35535 | 26694 | 25653 |
| 60° | 31017 | 21676 | 18299 |
| 65° | 27292 | 16707 | 10105 |
| 70° | 23562 | 11044 | 4937 |
| 75° | 19995 | 5380 | 1906 |
| 80° | 15469 | 2305 | 1137 |
| 85° | 9120 | 1132 | 1132 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 121.7 | 5.3 |
| 10°-20° | 344.1 | 15.0 |
| 20°-30° | 484.6 | 21.1 |
| 30°-40° | 495.2 | 21.5 |
| 40°-50° | 399.2 | 17.4 |
| 50°-60° | 267.8 | 11.7 |
| 60°-70° | 135.5 | 5.9 |
| 70°-80° | 43.3 | 1.9 |
| 80°-90° | 6.7 | 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° | 950.5 | 41.4 |
| 0°-40° | 1445.6 | 62.9 |
| 0°-60° | 2112.6 | 91.9 |
| 0°-90° | 2298.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2298.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1290 | 1290 | 1290 | 1290 | 1290 | |
| 5° | 1310 | 1300 | 1282 | 1262 | 1253 | 126 |
| 15° | 1353 | 1299 | 1206 | 1152 | 1139 | 382 |
| 25° | 1266 | 1166 | 1010 | 949 | 943 | 580 |
| 35° | 978 | 889 | 744 | 702 | 706 | 608 |
| 45° | 617 | 568 | 484 | 468 | 472 | 480 |
| 55° | 372 | 330 | 279 | 267 | 268 | 335 |
| 65° | 210 | 174 | 129 | 85 | 78 | 210 |
| 75° | 94 | 67 | 25 | 9 | 9 | 101 |
| 85° | 14 | 7 | 2 | 2 | 2 | 19 |
| 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° | 1289.6 | 1289.6 | 1289.6 | 1289.6 | 1289.6 | 1289.6 | 1289.6 | 1289.6 | 1289.6 |
| 2.5° | 1295.1 | 1293.2 | 1291.5 | 1287.8 | 1282.3 | 1276.9 | 1273.3 | 1269.7 | 1267.8 |
| 5° | 1309.5 | 1305.9 | 1300.5 | 1293.2 | 1282.3 | 1269.7 | 1262.4 | 1255.1 | 1253.4 |
| 7.5° | 1329.6 | 1322.3 | 1307.8 | 1291.5 | 1273.3 | 1255.1 | 1242.5 | 1235.2 | 1229.7 |
| 10° | 1338.6 | 1325.9 | 1305.9 | 1278.7 | 1251.5 | 1229.7 | 1213.4 | 1202.5 | 1198.9 |
| 12.5° | 1345.8 | 1331.3 | 1302.2 | 1266.0 | 1229.7 | 1200.7 | 1182.6 | 1173.6 | 1169.9 |
| 15° | 1353.1 | 1338.6 | 1298.6 | 1251.5 | 1206.1 | 1171.7 | 1151.8 | 1142.7 | 1139.1 |
| 17.5° | 1353.1 | 1333.1 | 1286.0 | 1226.1 | 1171.7 | 1130.0 | 1110.0 | 1101.0 | 1099.1 |
| 20° | 1336.7 | 1315.0 | 1257.0 | 1186.2 | 1124.6 | 1077.3 | 1059.3 | 1053.8 | 1050.1 |
| 22.5° | 1305.9 | 1280.6 | 1215.3 | 1135.5 | 1068.3 | 1022.9 | 1003.0 | 999.4 | 995.8 |
| 25° | 1266.0 | 1240.6 | 1166.3 | 1081.0 | 1010.3 | 964.9 | 948.6 | 945.0 | 943.1 |
| 27.5° | 1215.3 | 1188.0 | 1110.0 | 1022.9 | 946.8 | 903.3 | 888.8 | 888.8 | 887.0 |
| 30° | 1149.9 | 1119.1 | 1042.9 | 955.9 | 879.7 | 839.8 | 828.9 | 828.9 | 827.1 |
| 32.5° | 1070.2 | 1039.2 | 970.3 | 887.0 | 814.3 | 772.7 | 763.6 | 767.2 | 765.5 |
| 35° | 977.6 | 952.3 | 888.8 | 807.2 | 743.7 | 705.6 | 701.9 | 705.6 | 705.6 |
| 37.5° | 885.1 | 861.6 | 807.2 | 736.4 | 676.5 | 642.0 | 642.0 | 647.6 | 645.7 |
| 40° | 789.0 | 770.8 | 720.1 | 658.5 | 609.5 | 585.9 | 582.3 | 587.7 | 589.5 |
| 42.5° | 698.3 | 683.8 | 640.3 | 589.5 | 545.9 | 522.4 | 527.8 | 531.4 | 533.3 |
| 45° | 616.7 | 602.2 | 567.7 | 515.1 | 484.3 | 468.0 | 468.0 | 473.4 | 471.6 |
| 47.5° | 544.2 | 533.3 | 498.8 | 447.9 | 420.8 | 413.5 | 417.1 | 420.8 | 420.8 |
| 50° | 480.7 | 464.4 | 431.7 | 391.8 | 371.8 | 362.7 | 366.4 | 368.3 | 368.3 |
| 52.5° | 420.8 | 409.9 | 377.3 | 340.9 | 322.9 | 317.4 | 317.4 | 319.3 | 319.3 |
| 55° | 371.8 | 359.1 | 330.2 | 293.8 | 279.3 | 272.0 | 266.6 | 264.8 | 268.4 |
| 57.5° | 324.7 | 313.8 | 286.6 | 252.1 | 235.8 | 228.5 | 217.6 | 214.0 | 217.6 |
| 60° | 282.9 | 273.9 | 246.7 | 214.0 | 197.7 | 183.2 | 170.5 | 163.3 | 166.9 |
| 62.5° | 246.7 | 235.8 | 208.6 | 181.4 | 163.3 | 147.0 | 126.9 | 116.0 | 121.5 |
| 65° | 210.4 | 201.4 | 174.2 | 147.0 | 128.8 | 108.9 | 85.2 | 77.9 | 77.9 |
| 67.5° | 177.8 | 168.7 | 143.3 | 119.7 | 98.0 | 74.3 | 52.6 | 50.7 | 52.6 |
| 70° | 147.0 | 137.8 | 116.0 | 92.5 | 68.9 | 45.4 | 30.8 | 30.8 | 30.8 |
| 72.5° | 121.5 | 110.6 | 90.7 | 67.2 | 43.5 | 23.6 | 16.3 | 18.2 | 18.2 |
| 75° | 94.4 | 85.2 | 67.2 | 45.4 | 25.4 | 10.9 | 9.0 | 9.0 | 9.0 |
| 77.5° | 70.8 | 63.5 | 47.1 | 29.1 | 12.7 | 3.6 | 3.6 | 3.6 | 3.6 |
| 80° | 49.0 | 41.7 | 30.8 | 18.2 | 7.3 | 3.6 | 3.6 | 3.6 | 3.6 |
| 82.5° | 29.1 | 25.4 | 18.2 | 9.0 | 3.6 | 1.8 | 1.8 | 1.8 | 1.8 |
| 85° | 14.5 | 12.7 | 7.3 | 3.6 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 87.5° | 3.6 | 3.6 | 1.8 | 1.8 | 0.0 | 1.8 | 1.8 | 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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