

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: P582053

Luminaire Tested: **HCC6S25D010BZ-HM60525840-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S25D010BZ-HM60525840-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

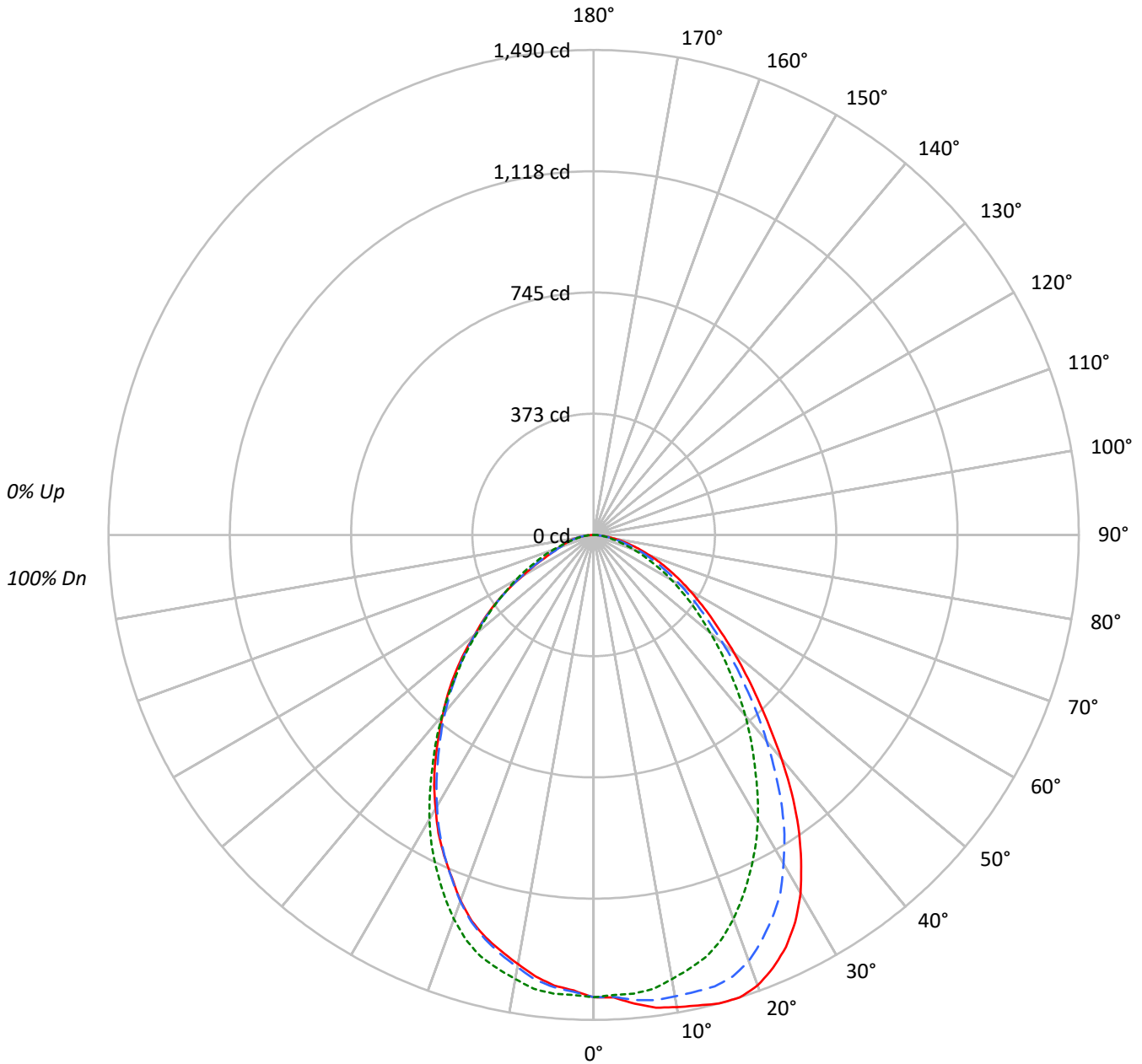
Lumens per Lamp: N/A
Luminaire Lumens: 2781.8 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 70 | 61 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 74 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 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 | 38 | 34 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 77872 | 77872 | 77872 |
| 5° | 79556 | 77845 | 76464 |
| 10° | 81990 | 77131 | 74537 |
| 15° | 84581 | 76107 | 72691 |
| 20° | 85927 | 73244 | 69738 |
| 25° | 84513 | 68901 | 65732 |
| 30° | 80455 | 63871 | 61421 |
| 35° | 73374 | 57661 | 56751 |
| 40° | 64156 | 51804 | 51525 |
| 45° | 55215 | 45586 | 46640 |
| 50° | 47990 | 39717 | 40545 |
| 55° | 41920 | 34876 | 35248 |
| 60° | 37234 | 30206 | 27651 |
| 65° | 33220 | 25424 | 21144 |
| 70° | 29236 | 20853 | 17727 |
| 75° | 25078 | 16436 | 16860 |
| 80° | 20205 | 14080 | 16543 |
| 85° | 13398 | 12202 | 14655 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 134.5 | 4.8 |
| 10°-20° | 382.9 | 13.8 |
| 20°-30° | 546.6 | 19.6 |
| 30°-40° | 572.5 | 20.6 |
| 40°-50° | 482.0 | 17.3 |
| 50°-60° | 343.1 | 12.3 |
| 60°-70° | 200.8 | 7.2 |
| 70°-80° | 95.0 | 3.4 |
| 80°-90° | 24.4 | 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° | 1063.9 | 38.2 |
| 0°-40° | 1636.5 | 58.8 |
| 0°-60° | 2461.6 | 88.5 |
| 0°-90° | 2781.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2781.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1420 | 1420 | 1420 | 1420 | 1420 | |
| 5° | 1446 | 1434 | 1415 | 1395 | 1390 | 139 |
| 15° | 1490 | 1436 | 1341 | 1287 | 1281 | 421 |
| 25° | 1397 | 1298 | 1139 | 1085 | 1087 | 640 |
| 35° | 1096 | 1005 | 862 | 832 | 848 | 681 |
| 45° | 712 | 660 | 588 | 590 | 602 | 553 |
| 55° | 439 | 402 | 365 | 365 | 369 | 395 |
| 65° | 256 | 227 | 196 | 165 | 163 | 255 |
| 75° | 118 | 99 | 78 | 76 | 80 | 127 |
| 85° | 21 | 17 | 19 | 23 | 23 | 28 |
| 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° | 1420.5 | 1420.5 | 1420.5 | 1420.5 | 1420.5 | 1420.5 | 1420.5 | 1420.5 | 1420.5 |
| 2.5° | 1422.4 | 1422.4 | 1420.5 | 1418.5 | 1414.6 | 1408.9 | 1405.0 | 1401.1 | 1401.1 |
| 5° | 1445.7 | 1441.8 | 1434.1 | 1424.4 | 1414.6 | 1403.0 | 1395.2 | 1389.5 | 1389.5 |
| 7.5° | 1465.1 | 1457.4 | 1441.8 | 1424.4 | 1406.9 | 1391.3 | 1377.8 | 1370.0 | 1368.2 |
| 10° | 1472.9 | 1463.3 | 1439.9 | 1412.8 | 1385.6 | 1364.3 | 1348.7 | 1339.0 | 1339.0 |
| 12.5° | 1480.7 | 1469.0 | 1437.9 | 1399.1 | 1364.3 | 1335.1 | 1319.5 | 1311.8 | 1309.9 |
| 15° | 1490.3 | 1474.8 | 1436.1 | 1387.6 | 1341.0 | 1308.0 | 1286.6 | 1280.8 | 1280.8 |
| 17.5° | 1490.3 | 1470.9 | 1422.4 | 1362.3 | 1304.1 | 1267.2 | 1247.7 | 1242.0 | 1243.9 |
| 20° | 1472.9 | 1451.6 | 1393.3 | 1319.5 | 1255.5 | 1216.8 | 1197.4 | 1193.5 | 1195.4 |
| 22.5° | 1439.9 | 1414.6 | 1348.7 | 1269.2 | 1199.2 | 1158.5 | 1141.1 | 1141.1 | 1139.1 |
| 25° | 1397.2 | 1370.0 | 1298.2 | 1214.8 | 1139.1 | 1098.4 | 1084.7 | 1086.7 | 1086.7 |
| 27.5° | 1341.0 | 1313.8 | 1242.0 | 1152.8 | 1077.1 | 1036.2 | 1026.6 | 1030.5 | 1032.3 |
| 30° | 1271.0 | 1242.0 | 1166.3 | 1079.0 | 1009.0 | 968.3 | 962.6 | 968.3 | 970.3 |
| 32.5° | 1185.7 | 1164.3 | 1090.6 | 1001.4 | 935.4 | 900.4 | 898.5 | 904.3 | 912.1 |
| 35° | 1096.4 | 1073.2 | 1005.2 | 923.7 | 861.6 | 832.5 | 832.5 | 842.3 | 848.0 |
| 37.5° | 999.4 | 976.1 | 914.1 | 846.2 | 793.7 | 766.6 | 770.5 | 780.1 | 782.0 |
| 40° | 896.5 | 879.1 | 826.7 | 768.5 | 723.9 | 702.4 | 708.3 | 718.0 | 720.0 |
| 42.5° | 799.5 | 784.0 | 741.3 | 688.9 | 655.9 | 640.4 | 648.2 | 659.8 | 663.7 |
| 45° | 712.2 | 694.7 | 659.8 | 615.2 | 588.0 | 580.3 | 589.9 | 597.7 | 601.6 |
| 47.5° | 632.6 | 617.1 | 588.0 | 547.2 | 527.9 | 524.0 | 533.7 | 537.5 | 541.4 |
| 50° | 562.7 | 547.2 | 518.1 | 481.3 | 465.7 | 465.7 | 473.5 | 477.4 | 475.4 |
| 52.5° | 494.8 | 481.3 | 454.1 | 423.0 | 413.4 | 413.4 | 419.1 | 421.1 | 425.0 |
| 55° | 438.6 | 425.0 | 401.7 | 372.6 | 364.9 | 361.0 | 364.9 | 364.9 | 368.8 |
| 57.5° | 386.2 | 374.5 | 353.2 | 326.0 | 316.3 | 312.4 | 310.5 | 308.6 | 312.4 |
| 60° | 339.6 | 329.9 | 306.6 | 283.3 | 275.5 | 265.9 | 258.1 | 250.3 | 252.2 |
| 62.5° | 297.0 | 287.2 | 265.9 | 242.6 | 234.8 | 221.3 | 211.5 | 201.9 | 205.7 |
| 65° | 256.1 | 246.5 | 227.0 | 207.6 | 196.0 | 180.4 | 164.9 | 159.1 | 163.0 |
| 67.5° | 219.3 | 211.5 | 192.1 | 172.7 | 163.0 | 145.6 | 130.1 | 130.1 | 131.9 |
| 70° | 182.4 | 174.7 | 159.1 | 141.7 | 130.1 | 114.5 | 108.6 | 110.6 | 110.6 |
| 72.5° | 149.5 | 143.6 | 128.1 | 112.5 | 100.9 | 91.2 | 91.2 | 93.1 | 95.1 |
| 75° | 118.4 | 114.5 | 99.0 | 85.3 | 77.6 | 71.8 | 75.7 | 77.6 | 79.6 |
| 77.5° | 91.2 | 85.3 | 73.8 | 64.0 | 58.3 | 60.1 | 64.0 | 66.0 | 67.9 |
| 80° | 64.0 | 62.1 | 52.4 | 46.6 | 44.6 | 46.6 | 50.5 | 52.4 | 52.4 |
| 82.5° | 40.7 | 38.8 | 33.0 | 31.1 | 31.1 | 33.0 | 36.8 | 36.8 | 36.8 |
| 85° | 21.3 | 19.4 | 17.4 | 17.4 | 19.4 | 21.3 | 23.3 | 23.3 | 23.3 |
| 87.5° | 7.8 | 5.8 | 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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