

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: P582051

Luminaire Tested: **HCC6S25D010MB-HM60525840-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582051
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: HCC6S25D010MB-HM60525840-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

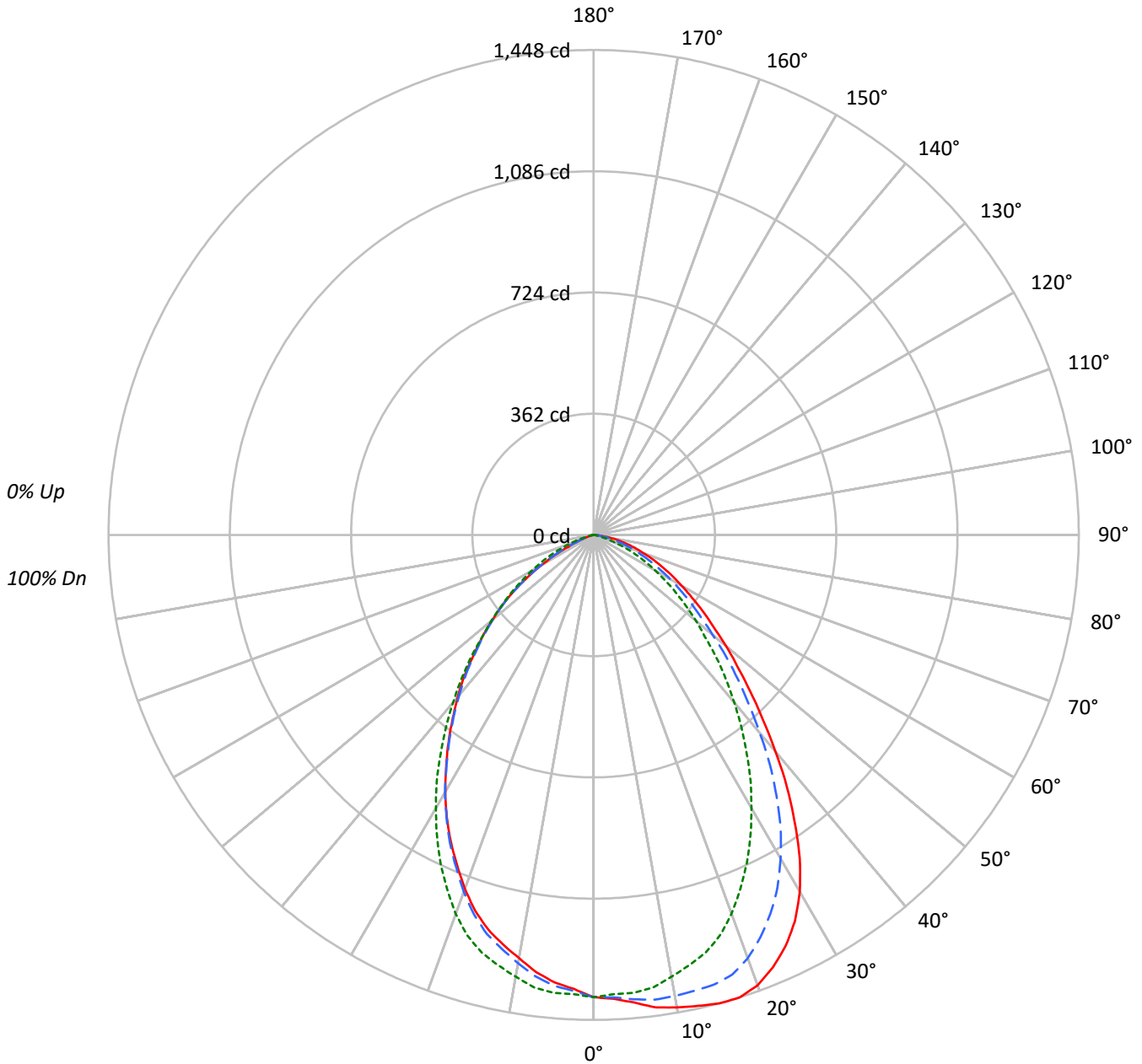
Lumens per Lamp: N/A
Luminaire Lumens: 2459.6 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | | | | | | | | | | |
| 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 | | | | | | | | |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 75663 | 75663 | 75663 |
| 5° | 77129 | 75523 | 73811 |
| 10° | 79752 | 74564 | 71430 |
| 15° | 82191 | 73269 | 69183 |
| 20° | 83465 | 70216 | 65567 |
| 25° | 81960 | 65399 | 61056 |
| 30° | 77904 | 59598 | 56034 |
| 35° | 70028 | 53264 | 50540 |
| 40° | 60428 | 46680 | 45149 |
| 45° | 51176 | 40190 | 39128 |
| 50° | 43879 | 33943 | 33611 |
| 55° | 38039 | 28577 | 27459 |
| 60° | 33210 | 23200 | 19582 |
| 65° | 29212 | 17875 | 10818 |
| 70° | 25213 | 11829 | 5289 |
| 75° | 21393 | 5761 | 2033 |
| 80° | 16543 | 2462 | 1231 |
| 85° | 9749 | 1195 | 1195 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 130.2 | 5.3 |
| 10°-20° | 368.3 | 15.0 |
| 20°-30° | 518.7 | 21.1 |
| 30°-40° | 529.9 | 21.5 |
| 40°-50° | 427.3 | 17.4 |
| 50°-60° | 286.6 | 11.7 |
| 60°-70° | 145.0 | 5.9 |
| 70°-80° | 46.3 | 1.9 |
| 80°-90° | 7.1 | 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° | 1017.3 | 41.4 |
| 0°-40° | 1547.2 | 62.9 |
| 0°-60° | 2261.1 | 91.9 |
| 0°-90° | 2459.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2459.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1380 | 1380 | 1380 | 1380 | 1380 | |
| 5° | 1402 | 1392 | 1372 | 1351 | 1341 | 135 |
| 15° | 1448 | 1390 | 1291 | 1233 | 1219 | 409 |
| 25° | 1355 | 1248 | 1081 | 1015 | 1009 | 620 |
| 35° | 1046 | 951 | 796 | 751 | 755 | 651 |
| 45° | 660 | 608 | 518 | 501 | 505 | 513 |
| 55° | 398 | 353 | 299 | 285 | 287 | 358 |
| 65° | 225 | 186 | 138 | 91 | 83 | 225 |
| 75° | 101 | 72 | 27 | 10 | 10 | 108 |
| 85° | 16 | 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° | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1380.2 |
| 2.5° | 1386.1 | 1384.1 | 1382.2 | 1378.3 | 1372.4 | 1366.6 | 1362.8 | 1358.9 | 1356.9 |
| 5° | 1401.6 | 1397.7 | 1391.8 | 1384.1 | 1372.4 | 1358.9 | 1351.1 | 1343.3 | 1341.3 |
| 7.5° | 1422.9 | 1415.1 | 1399.6 | 1382.2 | 1362.8 | 1343.3 | 1329.8 | 1322.0 | 1316.2 |
| 10° | 1432.7 | 1419.0 | 1397.7 | 1368.5 | 1339.5 | 1316.2 | 1298.7 | 1287.1 | 1283.2 |
| 12.5° | 1440.4 | 1424.9 | 1393.8 | 1355.0 | 1316.2 | 1285.1 | 1265.7 | 1256.0 | 1252.1 |
| 15° | 1448.2 | 1432.7 | 1390.0 | 1339.5 | 1291.0 | 1254.0 | 1232.7 | 1222.9 | 1219.0 |
| 17.5° | 1448.2 | 1426.8 | 1376.3 | 1312.3 | 1254.0 | 1209.4 | 1188.1 | 1178.3 | 1176.4 |
| 20° | 1430.7 | 1407.4 | 1345.2 | 1269.5 | 1203.6 | 1153.1 | 1133.7 | 1127.8 | 1123.9 |
| 22.5° | 1397.7 | 1370.5 | 1300.6 | 1215.2 | 1143.4 | 1094.9 | 1073.4 | 1069.7 | 1065.8 |
| 25° | 1355.0 | 1327.8 | 1248.2 | 1157.0 | 1081.2 | 1032.7 | 1015.3 | 1011.4 | 1009.4 |
| 27.5° | 1300.6 | 1271.5 | 1188.1 | 1094.9 | 1013.3 | 966.7 | 951.2 | 951.2 | 949.3 |
| 30° | 1230.7 | 1197.7 | 1116.2 | 1023.1 | 941.5 | 898.8 | 887.1 | 887.1 | 885.2 |
| 32.5° | 1145.4 | 1112.3 | 1038.6 | 949.3 | 871.6 | 827.0 | 817.2 | 821.1 | 819.2 |
| 35° | 1046.4 | 1019.2 | 951.2 | 863.8 | 795.9 | 755.2 | 751.3 | 755.2 | 755.2 |
| 37.5° | 947.3 | 922.1 | 863.8 | 788.1 | 724.1 | 687.1 | 687.1 | 693.0 | 691.0 |
| 40° | 844.4 | 825.0 | 770.7 | 704.7 | 652.3 | 627.0 | 623.1 | 629.0 | 630.9 |
| 42.5° | 747.4 | 731.9 | 685.3 | 630.9 | 584.3 | 559.1 | 564.9 | 568.7 | 570.7 |
| 45° | 660.1 | 644.5 | 607.6 | 551.3 | 518.4 | 500.8 | 500.8 | 506.7 | 504.7 |
| 47.5° | 582.4 | 570.7 | 533.9 | 479.5 | 450.3 | 442.6 | 446.4 | 450.3 | 450.3 |
| 50° | 514.5 | 496.9 | 462.0 | 419.3 | 398.0 | 388.3 | 392.2 | 394.1 | 394.1 |
| 52.5° | 450.3 | 438.7 | 403.7 | 365.0 | 345.6 | 339.7 | 339.7 | 341.7 | 341.7 |
| 55° | 398.0 | 384.4 | 353.3 | 314.5 | 299.0 | 291.2 | 285.3 | 283.4 | 287.3 |
| 57.5° | 347.5 | 335.8 | 306.7 | 269.8 | 252.4 | 244.6 | 232.9 | 229.0 | 232.9 |
| 60° | 302.9 | 293.1 | 264.0 | 229.0 | 211.6 | 196.1 | 182.4 | 174.7 | 178.6 |
| 62.5° | 264.0 | 252.4 | 223.3 | 194.1 | 174.7 | 157.3 | 135.8 | 124.3 | 130.1 |
| 65° | 225.2 | 215.5 | 186.3 | 157.3 | 137.8 | 116.5 | 91.2 | 83.4 | 83.4 |
| 67.5° | 190.2 | 180.6 | 153.4 | 128.2 | 104.9 | 79.6 | 56.3 | 54.4 | 56.3 |
| 70° | 157.3 | 147.5 | 124.3 | 99.0 | 73.8 | 48.5 | 33.0 | 33.0 | 33.0 |
| 72.5° | 130.1 | 118.4 | 97.1 | 71.8 | 46.6 | 25.2 | 17.4 | 19.4 | 19.4 |
| 75° | 101.0 | 91.2 | 71.8 | 48.5 | 27.2 | 11.7 | 9.6 | 9.6 | 9.6 |
| 77.5° | 75.7 | 67.9 | 50.5 | 31.1 | 13.5 | 3.9 | 3.9 | 3.9 | 3.9 |
| 80° | 52.4 | 44.6 | 33.0 | 19.4 | 7.8 | 3.9 | 3.9 | 3.9 | 3.9 |
| 82.5° | 31.1 | 27.2 | 19.4 | 9.6 | 3.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 85° | 15.5 | 13.5 | 7.8 | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

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