

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: P582357

Luminaire Tested: **HCC6S35D010MW-HM63040927-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582357
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: HCC6S35D010MW-HM63040927-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

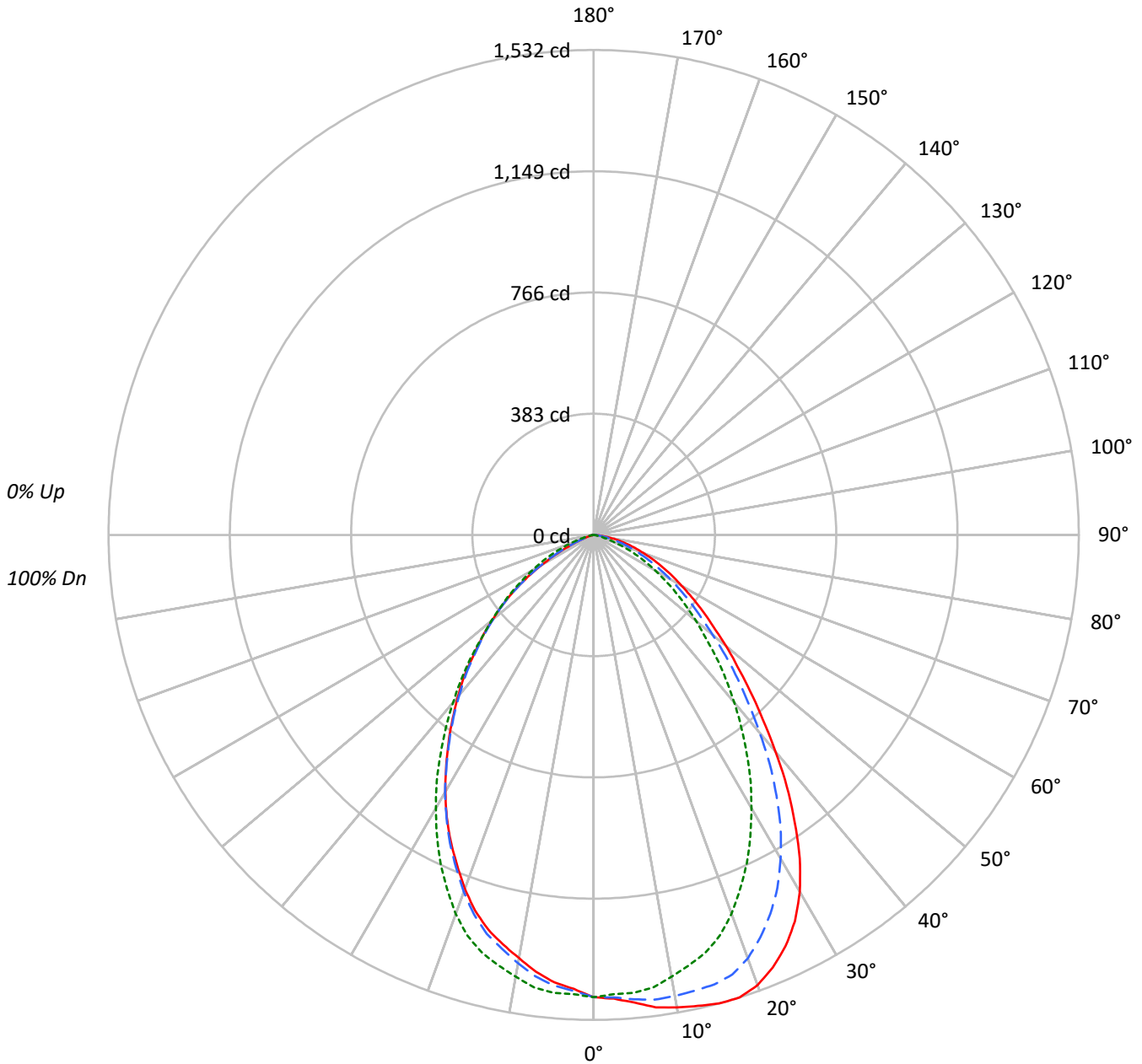
Lumens per Lamp: N/A
Luminaire Lumens: 2602.1 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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 | 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° | 80048 | 80048 | 80048 |
| 5° | 81598 | 79903 | 78092 |
| 10° | 84367 | 78884 | 75566 |
| 15° | 86947 | 77509 | 73201 |
| 20° | 88301 | 74282 | 69370 |
| 25° | 86709 | 69191 | 64594 |
| 30° | 82418 | 63048 | 59281 |
| 35° | 74077 | 56349 | 53465 |
| 40° | 63927 | 49378 | 47761 |
| 45° | 54130 | 42516 | 41400 |
| 50° | 46421 | 35914 | 35555 |
| 55° | 40247 | 30231 | 29055 |
| 60° | 35118 | 24538 | 20711 |
| 65° | 30898 | 18913 | 11454 |
| 70° | 26655 | 12518 | 5594 |
| 75° | 22621 | 6079 | 2182 |
| 80° | 17490 | 2589 | 1294 |
| 85° | 10378 | 1321 | 1321 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 137.8 | 5.3 |
| 10°-20° | 389.7 | 15.0 |
| 20°-30° | 548.7 | 21.1 |
| 30°-40° | 560.6 | 21.5 |
| 40°-50° | 452.0 | 17.4 |
| 50°-60° | 303.2 | 11.7 |
| 60°-70° | 153.4 | 5.9 |
| 70°-80° | 49.0 | 1.9 |
| 80°-90° | 7.6 | 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° | 1076.2 | 41.4 |
| 0°-40° | 1636.8 | 62.9 |
| 0°-60° | 2392.0 | 91.9 |
| 0°-90° | 2602.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2602.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1460 | 1460 | 1460 | 1460 | 1460 | |
| 5° | 1483 | 1472 | 1452 | 1429 | 1419 | 143 |
| 15° | 1532 | 1470 | 1366 | 1304 | 1290 | 433 |
| 25° | 1434 | 1321 | 1144 | 1074 | 1068 | 656 |
| 35° | 1107 | 1006 | 842 | 795 | 799 | 689 |
| 45° | 698 | 643 | 548 | 530 | 534 | 543 |
| 55° | 421 | 374 | 316 | 302 | 304 | 379 |
| 65° | 238 | 197 | 146 | 96 | 88 | 238 |
| 75° | 107 | 76 | 29 | 10 | 10 | 115 |
| 85° | 16 | 8 | 2 | 2 | 2 | 22 |
| 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° | 1460.2 | 1460.2 | 1460.2 | 1460.2 | 1460.2 | 1460.2 | 1460.2 | 1460.2 | 1460.2 |
| 2.5° | 1466.3 | 1464.2 | 1462.3 | 1458.2 | 1452.0 | 1445.8 | 1441.7 | 1437.6 | 1435.5 |
| 5° | 1482.8 | 1478.7 | 1472.5 | 1464.2 | 1452.0 | 1437.6 | 1429.3 | 1421.2 | 1419.1 |
| 7.5° | 1505.3 | 1497.1 | 1480.7 | 1462.3 | 1441.7 | 1421.2 | 1406.8 | 1398.5 | 1392.5 |
| 10° | 1515.6 | 1501.2 | 1478.7 | 1447.9 | 1417.1 | 1392.5 | 1373.9 | 1361.7 | 1357.5 |
| 12.5° | 1523.9 | 1507.4 | 1474.5 | 1433.5 | 1392.5 | 1359.6 | 1339.0 | 1328.7 | 1324.7 |
| 15° | 1532.0 | 1515.6 | 1470.4 | 1417.1 | 1365.7 | 1326.6 | 1304.1 | 1293.9 | 1289.8 |
| 17.5° | 1532.0 | 1509.5 | 1456.1 | 1388.3 | 1326.6 | 1279.5 | 1256.9 | 1246.6 | 1244.5 |
| 20° | 1513.6 | 1489.0 | 1423.3 | 1343.1 | 1273.3 | 1219.9 | 1199.3 | 1193.3 | 1189.1 |
| 22.5° | 1478.7 | 1449.9 | 1376.0 | 1285.6 | 1209.6 | 1158.2 | 1135.7 | 1131.6 | 1127.4 |
| 25° | 1433.5 | 1404.7 | 1320.6 | 1224.1 | 1143.9 | 1092.5 | 1074.1 | 1070.0 | 1067.9 |
| 27.5° | 1376.0 | 1345.2 | 1256.9 | 1158.2 | 1072.0 | 1022.8 | 1006.3 | 1006.3 | 1004.3 |
| 30° | 1302.0 | 1267.1 | 1180.9 | 1082.3 | 996.0 | 950.9 | 938.5 | 938.5 | 936.5 |
| 32.5° | 1211.7 | 1176.8 | 1098.7 | 1004.3 | 922.2 | 874.9 | 864.6 | 868.7 | 866.6 |
| 35° | 1106.9 | 1078.2 | 1006.3 | 913.9 | 842.0 | 798.9 | 794.7 | 798.9 | 798.9 |
| 37.5° | 1002.2 | 975.5 | 913.9 | 833.8 | 766.0 | 727.0 | 727.0 | 733.2 | 731.1 |
| 40° | 893.3 | 872.8 | 815.3 | 745.5 | 690.0 | 663.3 | 659.2 | 665.4 | 667.4 |
| 42.5° | 790.6 | 774.3 | 724.9 | 667.4 | 618.2 | 591.4 | 597.6 | 601.7 | 603.8 |
| 45° | 698.2 | 681.9 | 642.8 | 583.3 | 548.4 | 529.8 | 529.8 | 536.0 | 534.0 |
| 47.5° | 616.1 | 603.8 | 564.7 | 507.3 | 476.5 | 468.2 | 472.4 | 476.5 | 476.5 |
| 50° | 544.3 | 525.7 | 488.7 | 443.6 | 421.1 | 410.8 | 414.9 | 416.9 | 416.9 |
| 52.5° | 476.5 | 464.1 | 427.1 | 386.0 | 365.5 | 359.4 | 359.4 | 361.4 | 361.4 |
| 55° | 421.1 | 406.6 | 373.8 | 332.7 | 316.3 | 308.1 | 301.9 | 299.8 | 304.0 |
| 57.5° | 367.6 | 355.2 | 324.5 | 285.4 | 267.0 | 258.7 | 246.5 | 242.4 | 246.5 |
| 60° | 320.3 | 310.1 | 279.3 | 242.4 | 223.8 | 207.4 | 193.0 | 184.9 | 188.9 |
| 62.5° | 279.3 | 267.0 | 236.2 | 205.4 | 184.9 | 166.3 | 143.8 | 131.4 | 137.6 |
| 65° | 238.2 | 227.9 | 197.1 | 166.3 | 145.8 | 123.2 | 96.5 | 88.3 | 88.3 |
| 67.5° | 201.3 | 191.0 | 162.2 | 135.5 | 110.9 | 84.3 | 59.5 | 57.5 | 59.5 |
| 70° | 166.3 | 156.0 | 131.4 | 104.8 | 78.1 | 51.3 | 34.9 | 34.9 | 34.9 |
| 72.5° | 137.6 | 125.2 | 102.7 | 76.0 | 49.2 | 26.7 | 18.4 | 20.5 | 20.5 |
| 75° | 106.8 | 96.5 | 76.0 | 51.3 | 28.7 | 12.4 | 10.3 | 10.3 | 10.3 |
| 77.5° | 80.1 | 71.9 | 53.4 | 32.9 | 14.4 | 4.1 | 4.1 | 4.1 | 4.1 |
| 80° | 55.4 | 47.3 | 34.9 | 20.5 | 8.2 | 4.1 | 4.1 | 4.1 | 4.1 |
| 82.5° | 32.9 | 28.7 | 20.5 | 10.3 | 4.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 85° | 16.5 | 14.4 | 8.2 | 4.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 87.5° | 4.1 | 4.1 | 2.1 | 2.1 | 0.0 | 2.1 | 2.1 | 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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Scaled Data Report



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

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