

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: P582359

Luminaire Tested: **HCC6S35D010SL-HM63040927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582359
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: HCC6S35D010SL-HM63040927-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

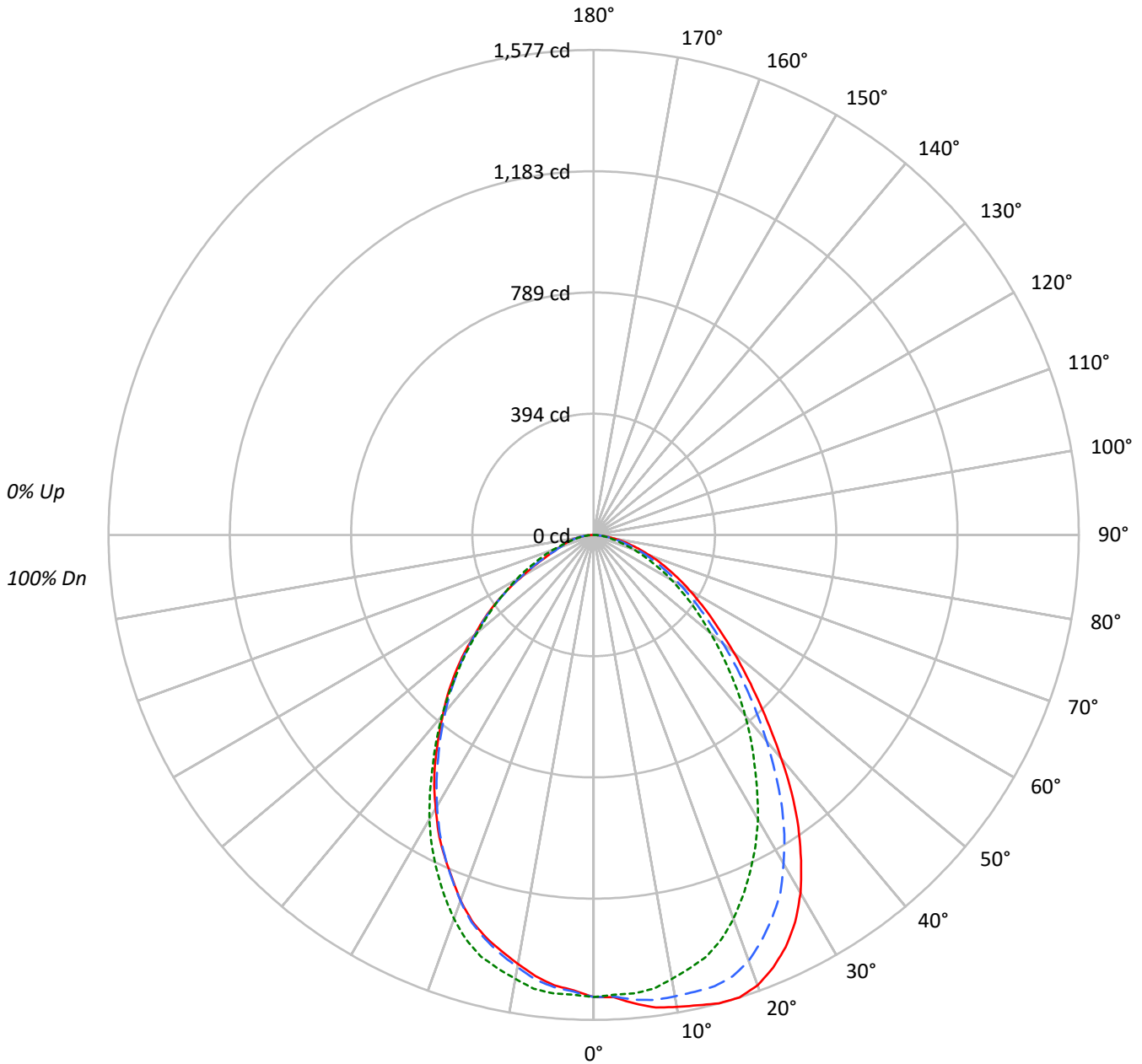
Lumens per Lamp: N/A
Luminaire Lumens: 2943.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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 | 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° | 82378 | 82378 | 82378 |
| 5° | 84168 | 82363 | 80893 |
| 10° | 86739 | 81601 | 78856 |
| 15° | 89484 | 80511 | 76902 |
| 20° | 90903 | 77491 | 73781 |
| 25° | 89406 | 72899 | 69542 |
| 30° | 85121 | 67580 | 64978 |
| 35° | 77631 | 61000 | 60043 |
| 40° | 67877 | 54803 | 54509 |
| 45° | 58409 | 48222 | 49346 |
| 50° | 50779 | 42020 | 42898 |
| 55° | 44347 | 36883 | 37284 |
| 60° | 39394 | 31960 | 29263 |
| 65° | 35153 | 26903 | 22376 |
| 70° | 30935 | 22055 | 18769 |
| 75° | 26518 | 17411 | 17813 |
| 80° | 21404 | 14932 | 17490 |
| 85° | 14215 | 12894 | 15473 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 142.3 | 4.8 |
| 10°-20° | 405.1 | 13.8 |
| 20°-30° | 578.2 | 19.6 |
| 30°-40° | 605.7 | 20.6 |
| 40°-50° | 509.9 | 17.3 |
| 50°-60° | 363.0 | 12.3 |
| 60°-70° | 212.5 | 7.2 |
| 70°-80° | 100.5 | 3.4 |
| 80°-90° | 25.9 | 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° | 1125.6 | 38.2 |
| 0°-40° | 1731.3 | 58.8 |
| 0°-60° | 2604.2 | 88.5 |
| 0°-90° | 2943.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2943.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1503 | 1503 | 1503 | 1503 | 1503 | |
| 5° | 1530 | 1517 | 1497 | 1476 | 1470 | 147 |
| 15° | 1577 | 1519 | 1419 | 1361 | 1355 | 445 |
| 25° | 1478 | 1373 | 1205 | 1148 | 1150 | 677 |
| 35° | 1160 | 1064 | 912 | 881 | 897 | 720 |
| 45° | 753 | 698 | 622 | 624 | 636 | 585 |
| 55° | 464 | 425 | 386 | 386 | 390 | 418 |
| 65° | 271 | 240 | 207 | 174 | 172 | 270 |
| 75° | 125 | 105 | 82 | 80 | 84 | 134 |
| 85° | 23 | 18 | 20 | 25 | 25 | 29 |
| 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° | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 |
| 2.5° | 1504.8 | 1504.8 | 1502.7 | 1500.8 | 1496.7 | 1490.5 | 1486.4 | 1482.3 | 1482.3 |
| 5° | 1529.5 | 1525.4 | 1517.2 | 1506.9 | 1496.7 | 1484.3 | 1476.1 | 1470.0 | 1470.0 |
| 7.5° | 1550.0 | 1541.8 | 1525.4 | 1506.9 | 1488.4 | 1472.1 | 1457.6 | 1449.4 | 1447.3 |
| 10° | 1558.2 | 1547.9 | 1523.3 | 1494.6 | 1465.9 | 1443.2 | 1426.9 | 1416.6 | 1416.6 |
| 12.5° | 1566.5 | 1554.1 | 1521.3 | 1480.2 | 1443.2 | 1412.4 | 1396.1 | 1387.8 | 1385.8 |
| 15° | 1576.7 | 1560.3 | 1519.2 | 1467.9 | 1418.6 | 1383.7 | 1361.2 | 1355.0 | 1355.0 |
| 17.5° | 1576.7 | 1556.2 | 1504.8 | 1441.2 | 1379.6 | 1340.6 | 1320.1 | 1313.9 | 1316.0 |
| 20° | 1558.2 | 1535.7 | 1474.0 | 1396.1 | 1328.3 | 1287.2 | 1266.7 | 1262.6 | 1264.7 |
| 22.5° | 1523.3 | 1496.7 | 1426.9 | 1342.6 | 1268.8 | 1225.6 | 1207.1 | 1207.1 | 1205.2 |
| 25° | 1478.1 | 1449.4 | 1373.4 | 1285.2 | 1205.2 | 1162.0 | 1147.6 | 1149.7 | 1149.7 |
| 27.5° | 1418.6 | 1389.9 | 1313.9 | 1219.5 | 1139.5 | 1096.3 | 1086.0 | 1090.1 | 1092.2 |
| 30° | 1344.7 | 1313.9 | 1233.9 | 1141.4 | 1067.6 | 1024.4 | 1018.3 | 1024.4 | 1026.5 |
| 32.5° | 1254.4 | 1231.8 | 1153.8 | 1059.4 | 989.5 | 952.6 | 950.5 | 956.7 | 964.9 |
| 35° | 1160.0 | 1135.3 | 1063.5 | 977.2 | 911.5 | 880.7 | 880.7 | 891.0 | 897.2 |
| 37.5° | 1057.3 | 1032.7 | 967.0 | 895.1 | 839.7 | 810.9 | 815.0 | 825.3 | 827.4 |
| 40° | 948.5 | 930.0 | 874.5 | 812.9 | 765.8 | 743.1 | 749.3 | 759.6 | 761.7 |
| 42.5° | 845.8 | 829.4 | 784.2 | 728.8 | 693.9 | 677.4 | 685.7 | 698.0 | 702.2 |
| 45° | 753.4 | 735.0 | 698.0 | 650.8 | 622.0 | 613.8 | 624.1 | 632.3 | 636.5 |
| 47.5° | 669.3 | 652.8 | 622.0 | 578.9 | 558.4 | 554.3 | 564.6 | 568.7 | 572.8 |
| 50° | 595.4 | 578.9 | 548.1 | 509.2 | 492.7 | 492.7 | 500.9 | 505.1 | 503.0 |
| 52.5° | 523.5 | 509.2 | 480.5 | 447.5 | 437.3 | 437.3 | 443.5 | 445.4 | 449.6 |
| 55° | 464.0 | 449.6 | 425.0 | 394.2 | 385.9 | 381.8 | 385.9 | 385.9 | 390.1 |
| 57.5° | 408.6 | 396.2 | 373.7 | 344.8 | 334.7 | 330.5 | 328.5 | 326.4 | 330.5 |
| 60° | 359.3 | 349.0 | 324.4 | 299.7 | 291.5 | 281.2 | 273.1 | 264.8 | 266.9 |
| 62.5° | 314.2 | 303.9 | 281.2 | 256.6 | 248.5 | 234.1 | 223.8 | 213.6 | 217.6 |
| 65° | 271.0 | 260.7 | 240.2 | 219.6 | 207.4 | 190.9 | 174.5 | 168.4 | 172.5 |
| 67.5° | 232.0 | 223.8 | 203.3 | 182.8 | 172.5 | 153.9 | 137.6 | 137.6 | 139.6 |
| 70° | 193.0 | 184.7 | 168.4 | 149.8 | 137.6 | 121.1 | 114.9 | 117.1 | 117.1 |
| 72.5° | 158.1 | 151.9 | 135.5 | 119.0 | 106.8 | 96.5 | 96.5 | 98.5 | 100.6 |
| 75° | 125.2 | 121.1 | 104.7 | 90.3 | 82.2 | 76.0 | 80.1 | 82.2 | 84.1 |
| 77.5° | 96.5 | 90.3 | 78.1 | 67.8 | 61.6 | 63.6 | 67.8 | 69.8 | 71.9 |
| 80° | 67.8 | 65.7 | 55.4 | 49.2 | 47.3 | 49.2 | 53.3 | 55.4 | 55.4 |
| 82.5° | 43.1 | 41.1 | 34.9 | 32.8 | 32.8 | 34.9 | 39.0 | 39.0 | 39.0 |
| 85° | 22.6 | 20.5 | 18.4 | 18.4 | 20.5 | 22.6 | 24.6 | 24.6 | 24.6 |
| 87.5° | 8.2 | 6.2 | 8.2 | 8.2 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 |
| 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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