

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: P582225

Luminaire Tested: **HCC6W30D010BZ-HM63040930-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W30D010BZ-HM63040930-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

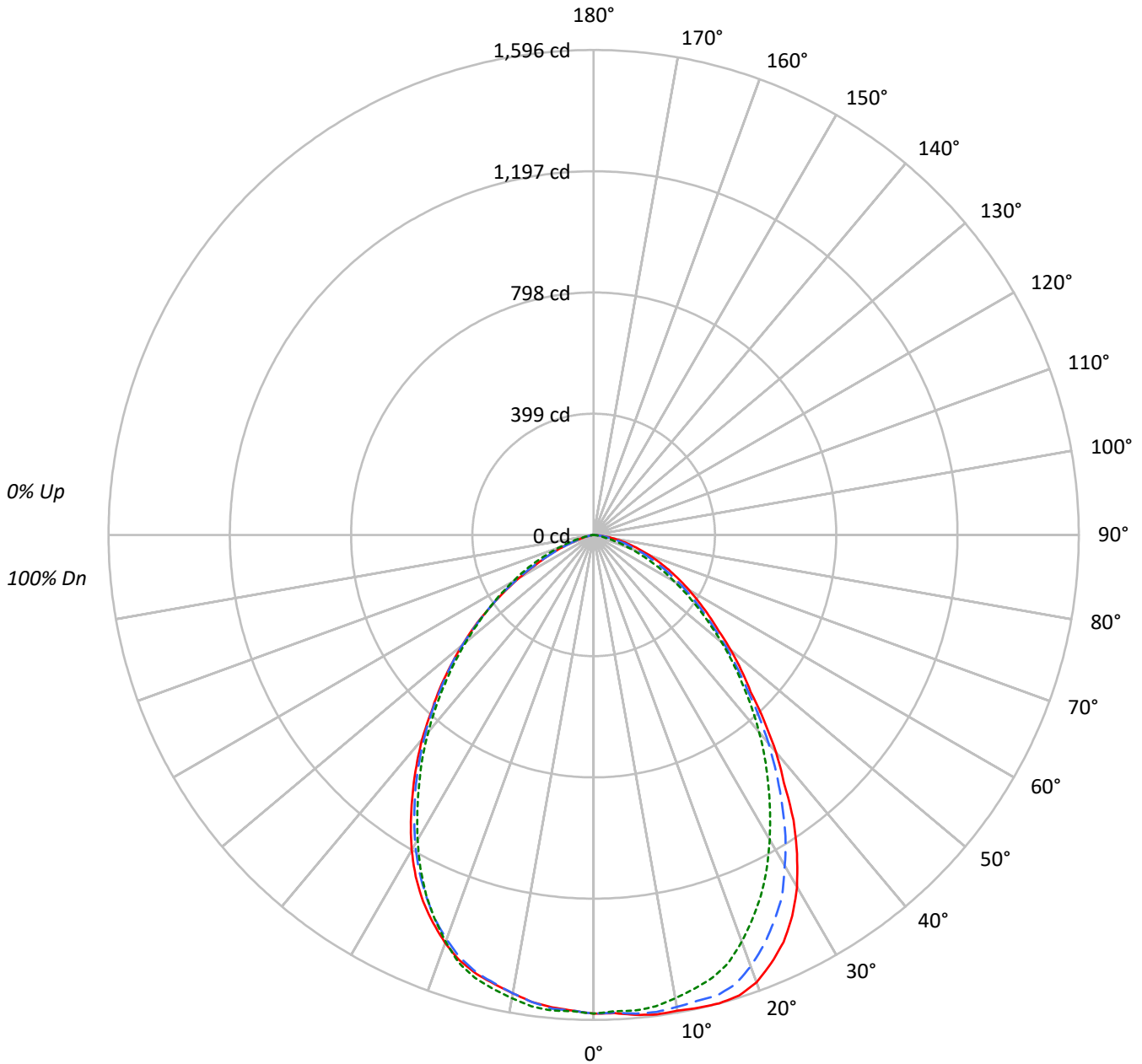
Lumens per Lamp: N/A
Luminaire Lumens: 3086.7 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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 | 0 | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 86358 | 86358 | 86358 |
| 5° | 87249 | 86457 | 85890 |
| 10° | 88492 | 86193 | 85275 |
| 15° | 90574 | 85653 | 84830 |
| 20° | 91416 | 83103 | 83348 |
| 25° | 89418 | 78924 | 80418 |
| 30° | 84690 | 73315 | 75796 |
| 35° | 76680 | 67010 | 69500 |
| 40° | 66775 | 60571 | 62796 |
| 45° | 56665 | 53618 | 55541 |
| 50° | 50182 | 46839 | 48067 |
| 55° | 44204 | 40056 | 39865 |
| 60° | 39613 | 33725 | 31017 |
| 65° | 35347 | 27059 | 22220 |
| 70° | 31095 | 19523 | 13897 |
| 75° | 26243 | 11819 | 7879 |
| 80° | 20205 | 5209 | 3252 |
| 85° | 11636 | 1258 | 1258 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.5 | 4.8 |
| 10°-20° | 429.7 | 13.9 |
| 20°-30° | 621.2 | 20.1 |
| 30°-40° | 653.7 | 21.2 |
| 40°-50° | 549.5 | 17.8 |
| 50°-60° | 385.7 | 12.5 |
| 60°-70° | 212.2 | 6.9 |
| 70°-80° | 75.3 | 2.4 |
| 80°-90° | 9.8 | 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° | 1200.5 | 38.9 |
| 0°-40° | 1854.2 | 60.1 |
| 0°-60° | 2789.4 | 90.4 |
| 0°-90° | 3086.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3086.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1575 | 1575 | 1575 | 1575 | 1575 | |
| 5° | 1586 | 1582 | 1571 | 1565 | 1561 | 152 |
| 15° | 1596 | 1569 | 1509 | 1491 | 1495 | 450 |
| 25° | 1478 | 1404 | 1305 | 1307 | 1330 | 676 |
| 35° | 1146 | 1080 | 1001 | 1022 | 1038 | 710 |
| 45° | 731 | 710 | 692 | 708 | 716 | 573 |
| 55° | 462 | 438 | 419 | 419 | 417 | 416 |
| 65° | 272 | 244 | 209 | 171 | 171 | 271 |
| 75° | 124 | 99 | 56 | 37 | 37 | 133 |
| 85° | 18 | 10 | 2 | 2 | 2 | 26 |
| 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° | 1575.3 | 1575.3 | 1575.3 | 1575.3 | 1575.3 | 1575.3 | 1575.3 | 1575.3 | 1575.3 |
| 2.5° | 1575.3 | 1575.3 | 1573.2 | 1573.2 | 1569.1 | 1569.1 | 1567.0 | 1567.0 | 1567.0 |
| 5° | 1585.5 | 1585.5 | 1581.5 | 1575.3 | 1571.1 | 1565.0 | 1565.0 | 1562.8 | 1560.8 |
| 7.5° | 1591.8 | 1589.7 | 1583.5 | 1575.3 | 1565.0 | 1554.6 | 1550.5 | 1552.6 | 1550.5 |
| 10° | 1589.7 | 1585.5 | 1577.3 | 1560.8 | 1548.4 | 1533.9 | 1531.9 | 1529.9 | 1531.9 |
| 12.5° | 1593.9 | 1587.7 | 1571.1 | 1550.5 | 1529.9 | 1513.4 | 1511.2 | 1511.2 | 1513.4 |
| 15° | 1595.9 | 1589.7 | 1569.1 | 1538.1 | 1509.2 | 1492.7 | 1490.6 | 1492.7 | 1494.7 |
| 17.5° | 1589.7 | 1581.5 | 1550.5 | 1509.2 | 1476.1 | 1459.6 | 1459.6 | 1463.8 | 1467.9 |
| 20° | 1567.0 | 1554.6 | 1511.2 | 1461.8 | 1424.5 | 1412.2 | 1416.3 | 1424.5 | 1428.7 |
| 22.5° | 1525.7 | 1511.2 | 1461.8 | 1406.0 | 1366.8 | 1356.4 | 1366.8 | 1377.1 | 1381.1 |
| 25° | 1478.3 | 1461.8 | 1403.9 | 1346.1 | 1304.8 | 1292.4 | 1306.8 | 1323.4 | 1329.5 |
| 27.5° | 1414.2 | 1395.6 | 1342.0 | 1275.9 | 1234.7 | 1228.5 | 1244.9 | 1263.6 | 1267.6 |
| 30° | 1337.9 | 1317.2 | 1257.4 | 1195.4 | 1158.2 | 1156.2 | 1174.7 | 1191.3 | 1197.4 |
| 32.5° | 1244.9 | 1226.3 | 1174.7 | 1112.8 | 1079.7 | 1079.7 | 1098.4 | 1112.8 | 1119.0 |
| 35° | 1145.8 | 1125.2 | 1079.7 | 1028.1 | 1001.3 | 1003.4 | 1021.9 | 1032.3 | 1038.5 |
| 37.5° | 1028.1 | 1021.9 | 986.9 | 943.5 | 924.9 | 929.1 | 943.5 | 951.8 | 958.0 |
| 40° | 933.1 | 916.7 | 894.0 | 858.8 | 846.4 | 850.6 | 865.0 | 873.3 | 877.5 |
| 42.5° | 829.9 | 819.6 | 801.0 | 776.3 | 768.0 | 774.2 | 786.6 | 792.8 | 790.7 |
| 45° | 730.9 | 728.7 | 710.2 | 695.8 | 691.6 | 699.8 | 708.2 | 714.4 | 716.4 |
| 47.5° | 658.6 | 650.4 | 633.9 | 623.5 | 619.4 | 627.7 | 635.9 | 640.0 | 640.0 |
| 50° | 588.4 | 580.1 | 563.6 | 553.4 | 549.2 | 557.4 | 563.6 | 567.7 | 563.6 |
| 52.5° | 518.2 | 510.0 | 495.5 | 483.1 | 481.1 | 485.2 | 487.3 | 489.3 | 493.4 |
| 55° | 462.5 | 454.2 | 437.7 | 423.3 | 419.1 | 421.1 | 419.1 | 419.1 | 417.1 |
| 57.5° | 408.8 | 400.6 | 384.0 | 367.5 | 361.3 | 359.2 | 353.0 | 351.0 | 349.0 |
| 60° | 361.3 | 351.0 | 334.5 | 315.9 | 307.6 | 299.4 | 289.0 | 282.9 | 282.9 |
| 62.5° | 315.9 | 305.6 | 287.0 | 270.5 | 258.0 | 243.6 | 227.1 | 218.9 | 218.9 |
| 65° | 272.5 | 264.3 | 243.6 | 225.1 | 208.6 | 189.9 | 171.3 | 167.2 | 171.3 |
| 67.5° | 231.3 | 222.9 | 202.4 | 183.7 | 163.1 | 140.4 | 123.9 | 123.9 | 128.1 |
| 70° | 194.0 | 185.8 | 167.2 | 144.5 | 121.8 | 99.0 | 86.7 | 86.7 | 86.7 |
| 72.5° | 159.0 | 150.8 | 130.1 | 109.4 | 86.7 | 64.0 | 57.8 | 59.9 | 57.8 |
| 75° | 123.9 | 117.7 | 99.0 | 76.3 | 55.8 | 39.2 | 37.2 | 35.1 | 37.2 |
| 77.5° | 92.9 | 86.7 | 70.2 | 49.6 | 30.9 | 22.7 | 20.7 | 20.7 | 20.7 |
| 80° | 64.0 | 57.8 | 45.4 | 28.9 | 16.5 | 10.3 | 10.3 | 10.3 | 10.3 |
| 82.5° | 39.2 | 33.1 | 24.7 | 14.5 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 85° | 18.5 | 14.5 | 10.3 | 4.2 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 87.5° | 4.2 | 4.2 | 2.0 | 2.0 | 0.0 | 2.0 | 2.0 | 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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Scaled Data Report



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

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