

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: P593301

Luminaire Tested: **HCC6S40D010SL-HM63040950-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593301
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: HCC6S40D010SL-HM63040950-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

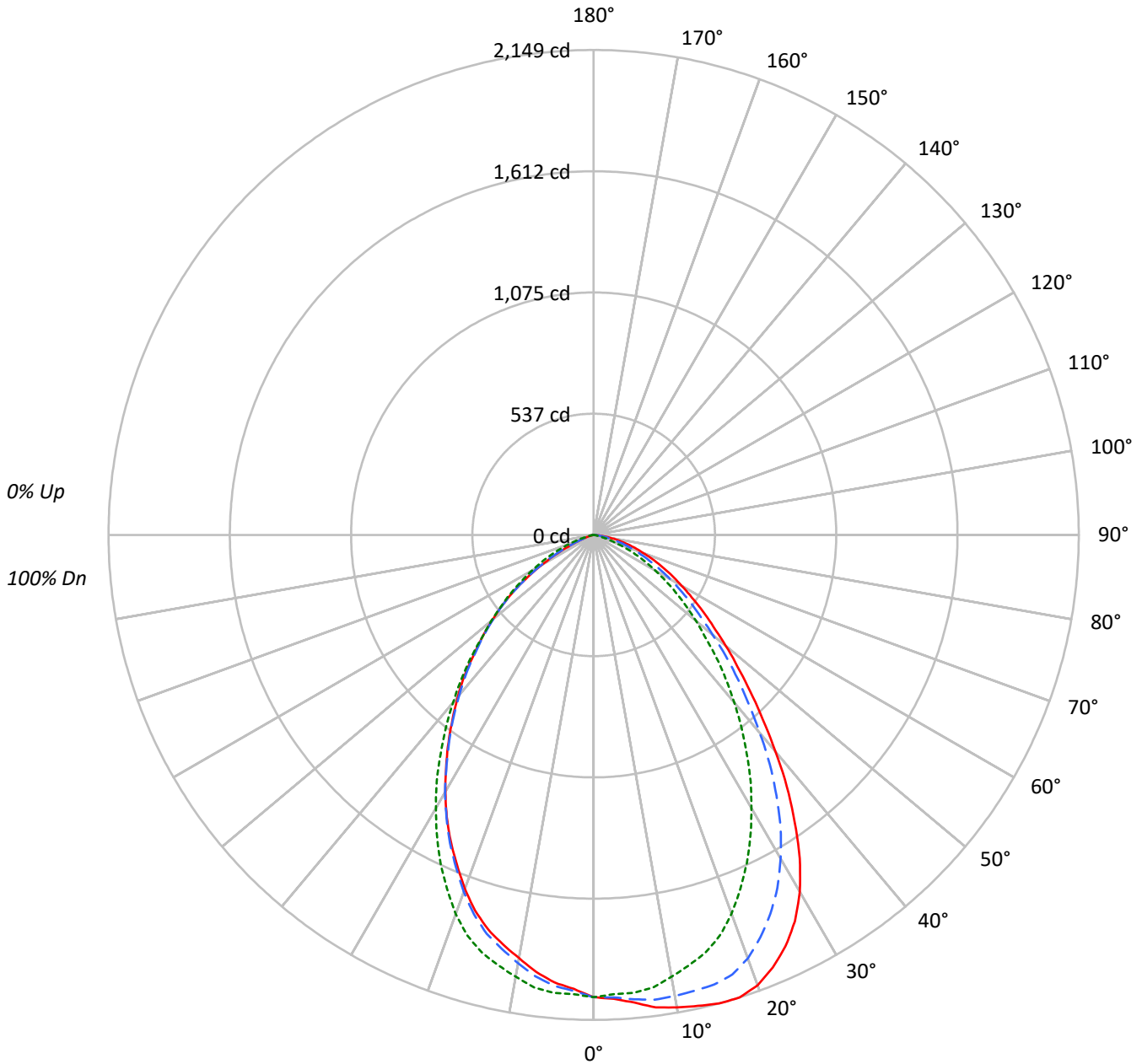
Lumens per Lamp: N/A
Luminaire Lumens: 3650.4 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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° | 112294 | 112294 | 112294 |
| 5° | 114467 | 112090 | 109553 |
| 10° | 118357 | 110664 | 106010 |
| 15° | 121981 | 108729 | 102685 |
| 20° | 123870 | 104210 | 97314 |
| 25° | 121634 | 97064 | 90616 |
| 30° | 115625 | 88450 | 83158 |
| 35° | 103925 | 79056 | 75007 |
| 40° | 89689 | 69273 | 67011 |
| 45° | 75946 | 59634 | 58076 |
| 50° | 65107 | 50369 | 49875 |
| 55° | 56447 | 42407 | 40754 |
| 60° | 49272 | 34438 | 29066 |
| 65° | 43351 | 26540 | 16072 |
| 70° | 37394 | 17551 | 7838 |
| 75° | 31729 | 8557 | 3050 |
| 80° | 24561 | 3631 | 1831 |
| 85° | 14530 | 1824 | 1824 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 193.3 | 5.3 |
| 10°-20° | 546.6 | 15.0 |
| 20°-30° | 769.8 | 21.1 |
| 30°-40° | 786.5 | 21.5 |
| 40°-50° | 634.2 | 17.4 |
| 50°-60° | 425.3 | 11.7 |
| 60°-70° | 215.3 | 5.9 |
| 70°-80° | 68.8 | 1.9 |
| 80°-90° | 10.6 | 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° | 1509.7 | 41.4 |
| 0°-40° | 2296.3 | 62.9 |
| 0°-60° | 3355.7 | 91.9 |
| 0°-90° | 3650.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3650.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2048 | 2048 | 2048 | 2048 | 2048 | |
| 5° | 2080 | 2066 | 2037 | 2005 | 1991 | 200 |
| 15° | 2149 | 2063 | 1916 | 1830 | 1809 | 607 |
| 25° | 2011 | 1852 | 1605 | 1507 | 1498 | 921 |
| 35° | 1553 | 1412 | 1181 | 1115 | 1121 | 966 |
| 45° | 980 | 902 | 769 | 743 | 749 | 762 |
| 55° | 591 | 524 | 444 | 424 | 426 | 531 |
| 65° | 334 | 277 | 205 | 136 | 124 | 334 |
| 75° | 150 | 107 | 40 | 14 | 14 | 161 |
| 85° | 23 | 12 | 3 | 3 | 3 | 31 |
| 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° | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 |
| 2.5° | 2057.1 | 2054.2 | 2051.3 | 2045.5 | 2036.9 | 2028.2 | 2022.6 | 2016.8 | 2013.8 |
| 5° | 2080.1 | 2074.4 | 2065.7 | 2054.2 | 2036.9 | 2016.8 | 2005.3 | 1993.7 | 1990.8 |
| 7.5° | 2111.9 | 2100.2 | 2077.3 | 2051.3 | 2022.6 | 1993.7 | 1973.5 | 1962.0 | 1953.3 |
| 10° | 2126.2 | 2106.0 | 2074.4 | 2031.1 | 1988.0 | 1953.3 | 1927.5 | 1910.2 | 1904.4 |
| 12.5° | 2137.7 | 2114.8 | 2068.6 | 2010.9 | 1953.3 | 1907.3 | 1878.4 | 1864.0 | 1858.3 |
| 15° | 2149.3 | 2126.2 | 2062.8 | 1988.0 | 1915.8 | 1861.1 | 1829.5 | 1815.1 | 1809.3 |
| 17.5° | 2149.3 | 2117.5 | 2042.7 | 1947.6 | 1861.1 | 1794.9 | 1763.2 | 1748.9 | 1746.0 |
| 20° | 2123.3 | 2088.8 | 1996.6 | 1884.2 | 1786.3 | 1711.4 | 1682.5 | 1673.9 | 1668.1 |
| 22.5° | 2074.4 | 2034.0 | 1930.4 | 1803.6 | 1696.9 | 1624.9 | 1593.2 | 1587.4 | 1581.7 |
| 25° | 2010.9 | 1970.6 | 1852.5 | 1717.1 | 1604.7 | 1532.7 | 1506.8 | 1501.0 | 1498.1 |
| 27.5° | 1930.4 | 1887.1 | 1763.2 | 1624.9 | 1503.9 | 1434.8 | 1411.7 | 1411.7 | 1408.8 |
| 30° | 1826.6 | 1777.6 | 1656.7 | 1518.3 | 1397.3 | 1333.9 | 1316.6 | 1316.6 | 1313.7 |
| 32.5° | 1699.8 | 1650.9 | 1541.4 | 1408.8 | 1293.5 | 1227.3 | 1213.0 | 1218.6 | 1215.9 |
| 35° | 1552.9 | 1512.5 | 1411.7 | 1282.1 | 1181.3 | 1120.8 | 1115.0 | 1120.8 | 1120.8 |
| 37.5° | 1405.9 | 1368.5 | 1282.1 | 1169.7 | 1074.6 | 1019.9 | 1019.9 | 1028.6 | 1025.7 |
| 40° | 1253.3 | 1224.4 | 1143.8 | 1045.8 | 968.0 | 930.6 | 924.9 | 933.5 | 936.4 |
| 42.5° | 1109.1 | 1086.2 | 1017.1 | 936.4 | 867.2 | 829.8 | 838.4 | 844.2 | 847.1 |
| 45° | 979.6 | 956.5 | 901.8 | 818.2 | 769.2 | 743.3 | 743.3 | 752.0 | 749.1 |
| 47.5° | 864.3 | 847.1 | 792.3 | 711.6 | 668.5 | 656.9 | 662.7 | 668.5 | 668.5 |
| 50° | 763.4 | 737.6 | 685.7 | 622.3 | 590.6 | 576.3 | 581.9 | 584.8 | 584.8 |
| 52.5° | 668.5 | 651.1 | 599.2 | 541.6 | 512.8 | 504.1 | 504.1 | 507.0 | 507.0 |
| 55° | 590.6 | 570.5 | 524.3 | 466.8 | 443.7 | 432.1 | 423.5 | 420.6 | 426.4 |
| 57.5° | 515.7 | 498.5 | 455.2 | 400.4 | 374.6 | 363.0 | 345.7 | 339.9 | 345.7 |
| 60° | 449.4 | 435.0 | 391.9 | 339.9 | 314.1 | 291.0 | 270.8 | 259.3 | 265.1 |
| 62.5° | 391.9 | 374.6 | 331.3 | 288.1 | 259.3 | 233.3 | 201.7 | 184.4 | 193.0 |
| 65° | 334.2 | 319.9 | 276.6 | 233.3 | 204.6 | 172.9 | 135.5 | 123.9 | 123.9 |
| 67.5° | 282.4 | 267.9 | 227.7 | 190.2 | 155.6 | 118.2 | 83.5 | 80.7 | 83.5 |
| 70° | 233.3 | 219.0 | 184.4 | 146.9 | 109.5 | 72.0 | 48.9 | 48.9 | 48.9 |
| 72.5° | 193.0 | 175.7 | 144.0 | 106.6 | 69.1 | 37.5 | 26.0 | 28.8 | 28.8 |
| 75° | 149.8 | 135.5 | 106.6 | 72.0 | 40.4 | 17.3 | 14.4 | 14.4 | 14.4 |
| 77.5° | 112.4 | 100.8 | 74.9 | 46.0 | 20.2 | 5.8 | 5.8 | 5.8 | 5.8 |
| 80° | 77.8 | 66.2 | 48.9 | 28.8 | 11.5 | 5.8 | 5.8 | 5.8 | 5.8 |
| 82.5° | 46.0 | 40.4 | 28.8 | 14.4 | 5.8 | 2.9 | 2.9 | 2.9 | 2.9 |
| 85° | 23.1 | 20.2 | 11.5 | 5.8 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 87.5° | 5.8 | 5.8 | 2.9 | 2.9 | 0.0 | 2.9 | 2.9 | 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



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Scaled Data Report



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

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