

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: P580179

Luminaire Tested: **HCC4W25D010SL-HM40525840-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W25D010SL-HM40525840-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

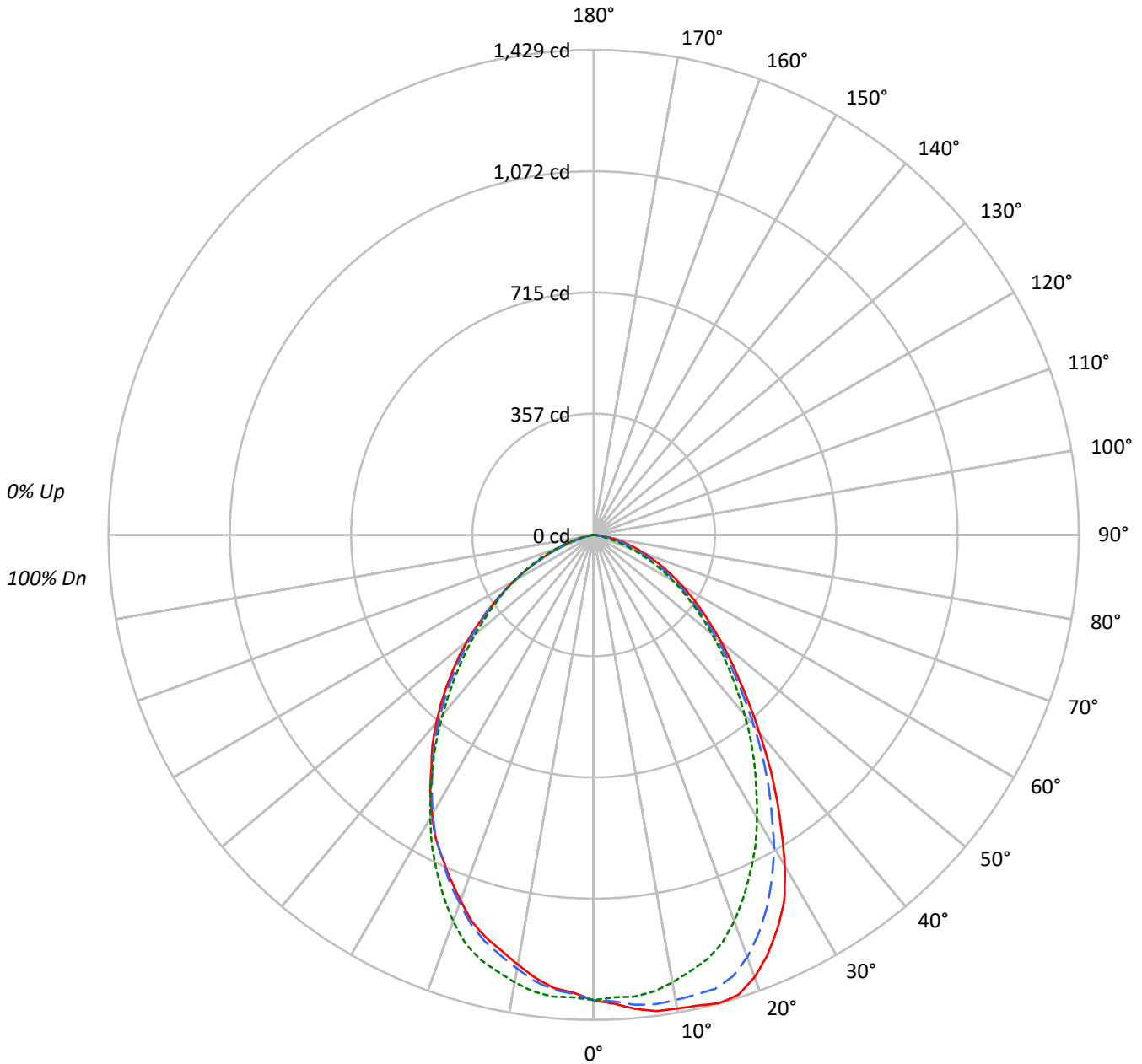
Lumens per Lamp: N/A
Luminaire Lumens: 2612.7 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 169082 | 169082 | 169082 |
| 5° | 173517 | 169084 | 165927 |
| 10° | 177452 | 167633 | 161019 |
| 15° | 182428 | 165265 | 156786 |
| 20° | 181942 | 158919 | 150426 |
| 25° | 174272 | 148781 | 143215 |
| 30° | 160316 | 137029 | 135577 |
| 35° | 141016 | 124362 | 125371 |
| 40° | 122018 | 111327 | 115980 |
| 45° | 106058 | 98923 | 104854 |
| 50° | 94104 | 87234 | 93144 |
| 55° | 83503 | 76535 | 79825 |
| 60° | 74353 | 66360 | 66360 |
| 65° | 66106 | 55162 | 51689 |
| 70° | 57125 | 41762 | 36857 |
| 75° | 47895 | 27593 | 22685 |
| 80° | 36226 | 13283 | 12075 |
| 85° | 19389 | 4812 | 4812 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 129.8 | 5.0 |
| 10°-20° | 368.0 | 14.1 |
| 20°-30° | 519.0 | 19.9 |
| 30°-40° | 536.2 | 20.5 |
| 40°-50° | 454.5 | 17.4 |
| 50°-60° | 330.7 | 12.7 |
| 60°-70° | 193.2 | 7.4 |
| 70°-80° | 71.8 | 2.7 |
| 80°-90° | 9.4 | 0.4 |
| 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° | 1016.9 | 38.9 |
| 0°-40° | 1553.1 | 59.4 |
| 0°-60° | 2338.3 | 89.5 |
| 0°-90° | 2612.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2612.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1371 | 1371 | 1371 | 1371 | 1371 | |
| 5° | 1401 | 1390 | 1366 | 1345 | 1340 | 134 |
| 15° | 1429 | 1384 | 1294 | 1240 | 1228 | 402 |
| 25° | 1280 | 1209 | 1093 | 1054 | 1052 | 586 |
| 35° | 936 | 896 | 826 | 828 | 833 | 585 |
| 45° | 608 | 591 | 567 | 588 | 601 | 473 |
| 55° | 388 | 370 | 356 | 368 | 371 | 349 |
| 65° | 226 | 208 | 189 | 177 | 177 | 225 |
| 75° | 100 | 83 | 58 | 46 | 48 | 108 |
| 85° | 14 | 8 | 3 | 3 | 3 | 19 |
| 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° | 1370.8 | 1370.8 | 1370.8 | 1370.8 | 1370.8 | 1370.8 | 1370.8 | 1370.8 | 1370.8 |
| 2.5° | 1382.7 | 1379.3 | 1375.9 | 1370.8 | 1363.9 | 1358.9 | 1353.8 | 1350.4 | 1350.4 |
| 5° | 1401.4 | 1396.3 | 1389.6 | 1377.6 | 1365.6 | 1355.5 | 1345.2 | 1340.1 | 1340.1 |
| 7.5° | 1415.1 | 1408.2 | 1394.7 | 1377.6 | 1357.2 | 1341.8 | 1326.5 | 1319.7 | 1316.3 |
| 10° | 1416.8 | 1409.9 | 1391.3 | 1365.6 | 1338.4 | 1314.6 | 1297.6 | 1287.4 | 1285.6 |
| 12.5° | 1420.2 | 1411.7 | 1387.8 | 1352.1 | 1316.3 | 1287.4 | 1268.7 | 1258.4 | 1255.0 |
| 15° | 1428.6 | 1416.8 | 1384.4 | 1338.4 | 1294.2 | 1260.1 | 1239.6 | 1231.2 | 1227.8 |
| 17.5° | 1420.2 | 1403.1 | 1363.9 | 1309.5 | 1260.1 | 1222.6 | 1202.2 | 1193.7 | 1193.7 |
| 20° | 1386.1 | 1369.1 | 1323.1 | 1263.5 | 1210.7 | 1175.0 | 1154.5 | 1149.4 | 1146.0 |
| 22.5° | 1338.4 | 1319.7 | 1270.4 | 1207.4 | 1154.5 | 1122.2 | 1108.6 | 1101.8 | 1100.0 |
| 25° | 1280.5 | 1261.8 | 1209.0 | 1144.4 | 1093.2 | 1066.0 | 1054.0 | 1054.0 | 1052.3 |
| 27.5° | 1215.8 | 1192.0 | 1137.5 | 1081.4 | 1031.9 | 1011.5 | 1006.4 | 1006.4 | 1008.1 |
| 30° | 1125.6 | 1108.6 | 1062.6 | 1008.1 | 962.1 | 948.5 | 948.5 | 951.9 | 951.9 |
| 32.5° | 1028.5 | 1016.6 | 975.7 | 928.0 | 892.2 | 883.8 | 887.2 | 893.9 | 895.7 |
| 35° | 936.5 | 923.0 | 895.7 | 853.1 | 825.9 | 822.5 | 827.6 | 832.6 | 832.6 |
| 37.5° | 846.3 | 832.6 | 814.0 | 779.9 | 759.5 | 761.2 | 767.9 | 774.8 | 779.9 |
| 40° | 757.8 | 747.5 | 734.0 | 706.6 | 691.4 | 698.2 | 706.6 | 713.5 | 720.3 |
| 42.5° | 679.4 | 669.3 | 659.0 | 638.6 | 628.4 | 636.9 | 647.0 | 653.9 | 660.7 |
| 45° | 608.0 | 601.1 | 590.9 | 573.9 | 567.1 | 575.6 | 587.5 | 594.3 | 601.1 |
| 47.5° | 546.7 | 543.2 | 529.6 | 514.3 | 510.9 | 519.3 | 529.6 | 538.1 | 543.2 |
| 50° | 490.4 | 485.4 | 473.4 | 458.0 | 454.6 | 468.3 | 475.1 | 480.2 | 485.4 |
| 52.5° | 435.9 | 430.8 | 417.2 | 403.6 | 403.6 | 413.8 | 418.9 | 420.6 | 425.7 |
| 55° | 388.3 | 383.2 | 369.5 | 359.2 | 355.9 | 364.4 | 367.8 | 367.8 | 371.2 |
| 57.5° | 344.0 | 338.8 | 325.3 | 313.3 | 311.6 | 316.7 | 316.7 | 316.7 | 318.4 |
| 60° | 301.4 | 296.2 | 282.7 | 272.4 | 269.0 | 270.7 | 269.0 | 267.3 | 269.0 |
| 62.5° | 262.3 | 257.1 | 243.5 | 231.6 | 228.2 | 228.2 | 223.1 | 221.4 | 223.1 |
| 65° | 226.5 | 218.0 | 207.7 | 195.9 | 189.0 | 183.9 | 177.1 | 177.1 | 177.1 |
| 67.5° | 190.7 | 183.9 | 171.9 | 160.1 | 151.5 | 143.0 | 132.8 | 136.3 | 138.0 |
| 70° | 158.4 | 153.2 | 139.7 | 127.7 | 115.8 | 105.6 | 97.1 | 100.5 | 102.2 |
| 72.5° | 129.4 | 122.6 | 110.6 | 97.1 | 86.8 | 73.3 | 68.1 | 71.5 | 71.5 |
| 75° | 100.5 | 93.7 | 83.4 | 69.8 | 57.9 | 46.0 | 46.0 | 47.6 | 47.6 |
| 77.5° | 75.0 | 68.1 | 57.9 | 46.0 | 35.8 | 27.2 | 28.9 | 28.9 | 28.9 |
| 80° | 51.0 | 46.0 | 37.5 | 27.2 | 18.7 | 15.4 | 15.4 | 15.4 | 17.0 |
| 82.5° | 28.9 | 25.5 | 20.4 | 13.7 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 85° | 13.7 | 10.2 | 8.5 | 5.1 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 87.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 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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