

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: P581889

Luminaire Tested: **HCC6W20D010SL-HM60525835-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581889
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: HCC6W20D010SL-HM60525835-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

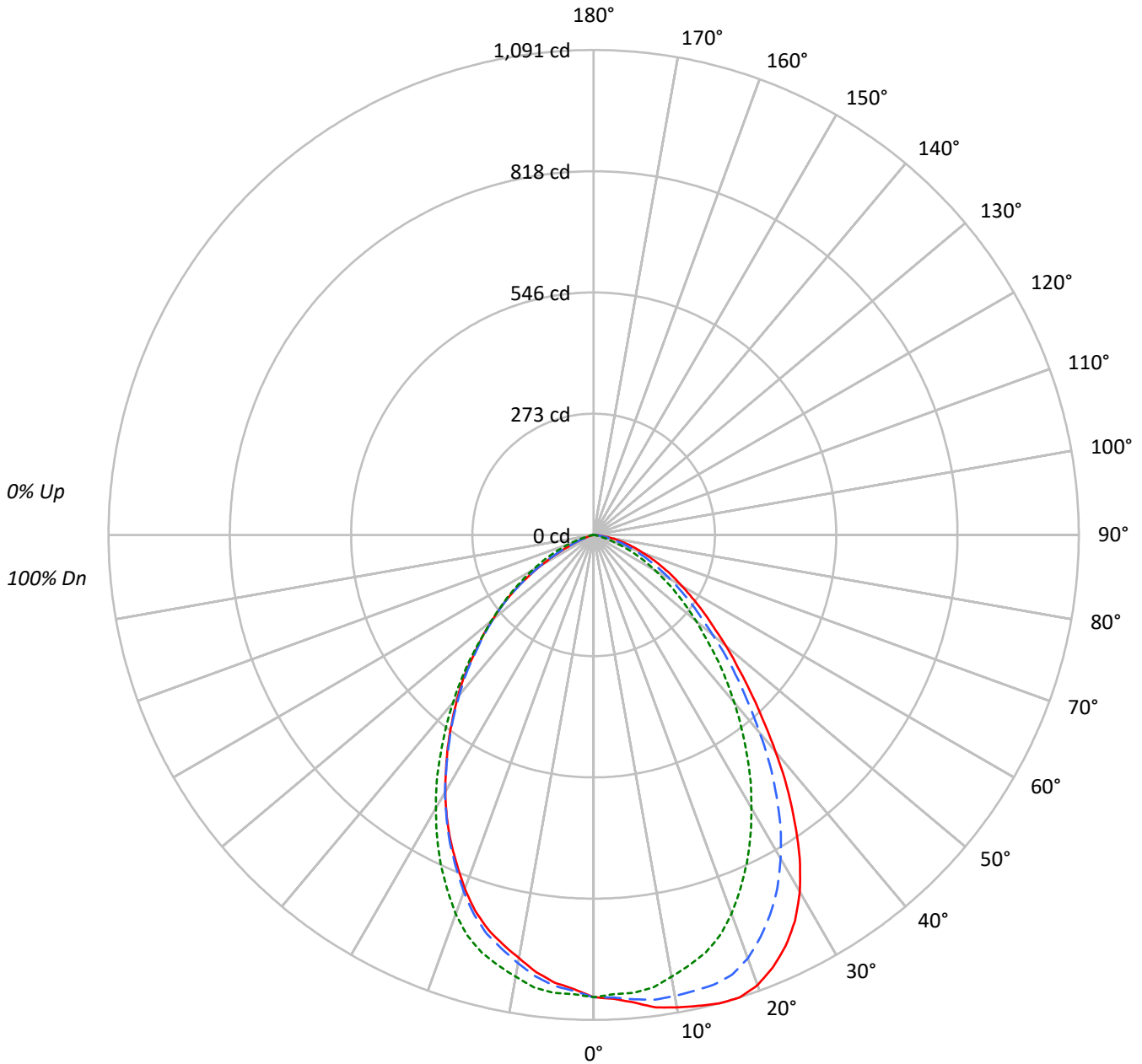
Lumens per Lamp: N/A
Luminaire Lumens: 1853.3 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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° | 57013 | 57013 | 57013 |
| 5° | 58117 | 56906 | 55618 |
| 10° | 60086 | 56184 | 53818 |
| 15° | 61930 | 55205 | 52129 |
| 20° | 62883 | 52907 | 49407 |
| 25° | 61752 | 49279 | 46007 |
| 30° | 58705 | 44906 | 42222 |
| 35° | 52755 | 40134 | 38079 |
| 40° | 45535 | 35173 | 34021 |
| 45° | 38554 | 30274 | 29484 |
| 50° | 33056 | 25568 | 25330 |
| 55° | 28654 | 21524 | 20692 |
| 60° | 25020 | 17477 | 14758 |
| 65° | 22013 | 13477 | 8159 |
| 70° | 18994 | 8912 | 3975 |
| 75° | 16097 | 4342 | 1567 |
| 80° | 12470 | 1863 | 916 |
| 85° | 7359 | 943 | 943 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.1 | 5.3 |
| 10°-20° | 277.5 | 15.0 |
| 20°-30° | 390.8 | 21.1 |
| 30°-40° | 399.3 | 21.5 |
| 40°-50° | 321.9 | 17.4 |
| 50°-60° | 215.9 | 11.7 |
| 60°-70° | 109.3 | 5.9 |
| 70°-80° | 34.9 | 1.9 |
| 80°-90° | 5.4 | 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° | 766.5 | 41.4 |
| 0°-40° | 1165.8 | 62.9 |
| 0°-60° | 1703.7 | 91.9 |
| 0°-90° | 1853.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1853.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1040 | 1040 | 1040 | 1040 | 1040 | |
| 5° | 1056 | 1049 | 1034 | 1018 | 1011 | 102 |
| 15° | 1091 | 1047 | 973 | 929 | 918 | 308 |
| 25° | 1021 | 940 | 815 | 765 | 761 | 467 |
| 35° | 788 | 717 | 600 | 566 | 569 | 491 |
| 45° | 497 | 458 | 390 | 377 | 380 | 387 |
| 55° | 300 | 266 | 225 | 215 | 216 | 270 |
| 65° | 170 | 140 | 104 | 69 | 63 | 169 |
| 75° | 76 | 54 | 20 | 7 | 7 | 82 |
| 85° | 12 | 6 | 2 | 2 | 2 | 16 |
| 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° | 1040.0 | 1040.0 | 1040.0 | 1040.0 | 1040.0 | 1040.0 | 1040.0 | 1040.0 | 1040.0 |
| 2.5° | 1044.4 | 1042.9 | 1041.5 | 1038.5 | 1034.1 | 1029.7 | 1026.8 | 1023.9 | 1022.4 |
| 5° | 1056.1 | 1053.1 | 1048.7 | 1042.9 | 1034.1 | 1023.9 | 1018.0 | 1012.2 | 1010.7 |
| 7.5° | 1072.2 | 1066.3 | 1054.6 | 1041.5 | 1026.8 | 1012.2 | 1001.9 | 996.1 | 991.7 |
| 10° | 1079.4 | 1069.2 | 1053.1 | 1031.1 | 1009.3 | 991.7 | 978.6 | 969.7 | 966.8 |
| 12.5° | 1085.3 | 1073.6 | 1050.2 | 1020.9 | 991.7 | 968.3 | 953.6 | 946.4 | 943.4 |
| 15° | 1091.2 | 1079.4 | 1047.2 | 1009.3 | 972.7 | 944.9 | 928.8 | 921.5 | 918.5 |
| 17.5° | 1091.2 | 1075.1 | 1037.0 | 988.8 | 944.9 | 911.3 | 895.2 | 887.8 | 886.3 |
| 20° | 1077.9 | 1060.5 | 1013.6 | 956.6 | 906.9 | 868.8 | 854.2 | 849.9 | 846.9 |
| 22.5° | 1053.1 | 1032.6 | 980.0 | 915.7 | 861.5 | 824.9 | 808.8 | 805.9 | 803.0 |
| 25° | 1020.9 | 1000.4 | 940.5 | 871.7 | 814.7 | 778.1 | 765.0 | 762.1 | 760.6 |
| 27.5° | 980.0 | 958.1 | 895.2 | 824.9 | 763.5 | 728.4 | 716.7 | 716.7 | 715.3 |
| 30° | 927.4 | 902.4 | 841.0 | 770.8 | 709.4 | 677.2 | 668.5 | 668.5 | 667.0 |
| 32.5° | 863.0 | 838.1 | 782.6 | 715.3 | 656.7 | 623.2 | 615.8 | 618.7 | 617.3 |
| 35° | 788.3 | 767.9 | 716.7 | 650.9 | 599.7 | 569.0 | 566.0 | 569.0 | 569.0 |
| 37.5° | 713.8 | 694.8 | 650.9 | 593.8 | 545.5 | 517.8 | 517.8 | 522.2 | 520.7 |
| 40° | 636.3 | 621.7 | 580.7 | 530.9 | 491.5 | 472.5 | 469.5 | 473.9 | 475.4 |
| 42.5° | 563.1 | 551.4 | 516.3 | 475.4 | 440.3 | 421.2 | 425.7 | 428.6 | 430.0 |
| 45° | 497.3 | 485.6 | 457.8 | 415.4 | 390.5 | 377.4 | 377.4 | 381.7 | 380.3 |
| 47.5° | 438.8 | 430.0 | 402.2 | 361.3 | 339.3 | 333.4 | 336.4 | 339.3 | 339.3 |
| 50° | 387.6 | 374.5 | 348.2 | 316.0 | 299.8 | 292.5 | 295.5 | 297.0 | 297.0 |
| 52.5° | 339.3 | 330.6 | 304.2 | 275.0 | 260.4 | 255.9 | 255.9 | 257.4 | 257.4 |
| 55° | 299.8 | 289.6 | 266.3 | 236.9 | 225.2 | 219.3 | 215.0 | 213.6 | 216.5 |
| 57.5° | 261.8 | 253.0 | 231.1 | 203.3 | 190.1 | 184.3 | 175.5 | 172.6 | 175.5 |
| 60° | 228.2 | 220.8 | 199.0 | 172.6 | 159.4 | 147.7 | 137.5 | 131.7 | 134.6 |
| 62.5° | 199.0 | 190.1 | 168.3 | 146.3 | 131.7 | 118.5 | 102.4 | 93.6 | 98.0 |
| 65° | 169.7 | 162.4 | 140.4 | 118.5 | 103.9 | 87.8 | 68.8 | 62.9 | 62.9 |
| 67.5° | 143.3 | 136.1 | 115.6 | 96.5 | 79.0 | 59.9 | 42.4 | 40.9 | 42.4 |
| 70° | 118.5 | 111.1 | 93.6 | 74.6 | 55.6 | 36.6 | 24.8 | 24.8 | 24.8 |
| 72.5° | 98.0 | 89.2 | 73.1 | 54.2 | 35.1 | 19.0 | 13.1 | 14.6 | 14.6 |
| 75° | 76.0 | 68.8 | 54.2 | 36.6 | 20.5 | 8.7 | 7.4 | 7.4 | 7.4 |
| 77.5° | 57.0 | 51.2 | 38.1 | 23.5 | 10.2 | 2.9 | 2.9 | 2.9 | 2.9 |
| 80° | 39.5 | 33.7 | 24.8 | 14.6 | 5.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 82.5° | 23.5 | 20.5 | 14.6 | 7.4 | 2.9 | 1.5 | 1.5 | 1.5 | 1.5 |
| 85° | 11.7 | 10.2 | 5.9 | 2.9 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 87.5° | 2.9 | 2.9 | 1.5 | 1.5 | 0.0 | 1.5 | 1.5 | 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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