

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: P581895

Luminaire Tested: **HCC6W20D010SL-HM60525840-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W20D010SL-HM60525840-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

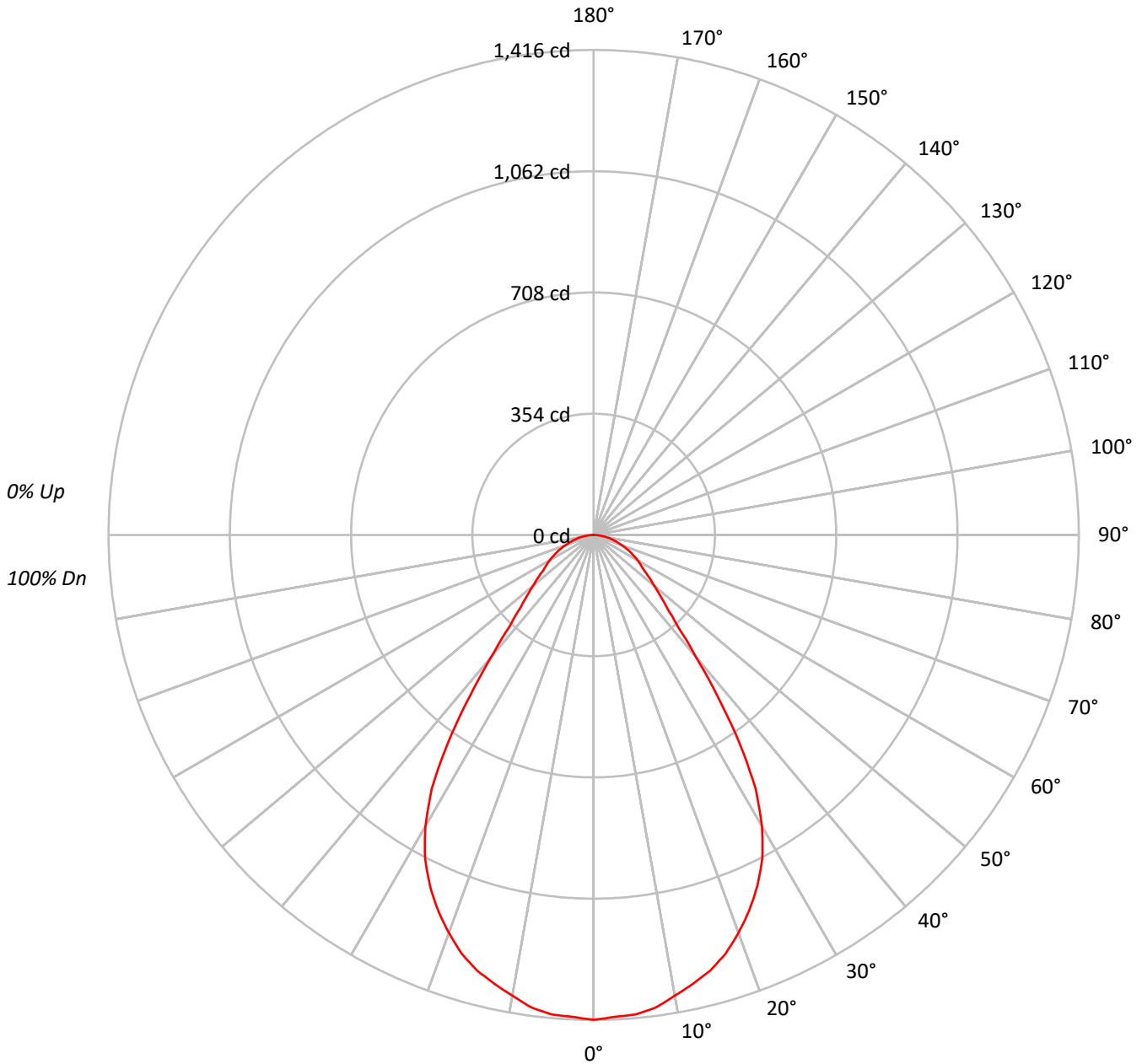
Lumens per Lamp: N/A
Luminaire Lumens: 2085.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 |
| 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 | 96 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 81 | 79 | | |
| 3 | 97 | 88 | 82 | 76 | 94 | 87 | 81 | 76 | 84 | 79 | 75 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | |
| 4 | 90 | 80 | 73 | 68 | 88 | 79 | 73 | 67 | 77 | 71 | 67 | 75 | 70 | 66 | 73 | 68 | 65 | 63 | | |
| 5 | 84 | 74 | 66 | 61 | 82 | 73 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 63 | 59 | 57 | | |
| 6 | 79 | 68 | 61 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 55 | 64 | 58 | 54 | 62 | 58 | 54 | 52 | | |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 61 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 48 | | |
| 8 | 70 | 58 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 45 | 44 | | |
| 9 | 66 | 54 | 47 | 43 | 65 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 77620 |
| 5° | 77333 |
| 10° | 76045 |
| 15° | 74700 |
| 20° | 72118 |
| 25° | 68387 |
| 30° | 62206 |
| 35° | 49704 |
| 40° | 33162 |
| 45° | 23638 |
| 50° | 19692 |
| 55° | 17165 |
| 60° | 16227 |
| 65° | 15268 |
| 70° | 14041 |
| 75° | 13111 |
| 80° | 11902 |
| 85° | 10504 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 132.9 | 6.4 |
| 10°-20° | 369.6 | 17.7 |
| 20°-30° | 516.5 | 24.8 |
| 30°-40° | 454.9 | 21.8 |
| 40°-50° | 245.8 | 11.8 |
| 50°-60° | 164.3 | 7.9 |
| 60°-70° | 116.5 | 5.6 |
| 70°-80° | 65.5 | 3.1 |
| 80°-90° | 19.1 | 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° | 1018.9 | 48.9 |
| 0°-40° | 1473.9 | 70.7 |
| 0°-60° | 1884.0 | 90.4 |
| 0°-90° | 2085.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2085.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1416 | |
| 5° | 1405 | 133 |
| 15° | 1316 | 370 |
| 25° | 1131 | 516 |
| 35° | 743 | 455 |
| 45° | 305 | 246 |
| 55° | 180 | 164 |
| 65° | 118 | 116 |
| 75° | 62 | 66 |
| 85° | 17 | 19 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1415.9 |
| 2.5° | 1408.3 |
| 5° | 1405.3 |
| 7.5° | 1391.7 |
| 10° | 1366.1 |
| 12.5° | 1341.9 |
| 15° | 1316.2 |
| 17.5° | 1281.5 |
| 20° | 1236.2 |
| 22.5° | 1186.5 |
| 25° | 1130.6 |
| 27.5° | 1065.7 |
| 30° | 982.7 |
| 32.5° | 880.0 |
| 35° | 742.7 |
| 37.5° | 593.2 |
| 40° | 463.4 |
| 42.5° | 365.3 |
| 45° | 304.9 |
| 47.5° | 264.1 |
| 50° | 230.9 |
| 52.5° | 203.8 |
| 55° | 179.6 |
| 57.5° | 163.0 |
| 60° | 148.0 |
| 62.5° | 132.8 |
| 65° | 117.7 |
| 67.5° | 102.6 |
| 70° | 87.6 |
| 72.5° | 74.0 |
| 75° | 61.9 |
| 77.5° | 49.9 |
| 80° | 37.7 |
| 82.5° | 27.2 |
| 85° | 16.7 |
| 87.5° | 7.6 |
| 90° | 0.0 |

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)