

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: P593328

Luminaire Tested: **HCC6W45D010BZ-HM64560950-61MDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W45D010BZ-HM64560950-61MDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

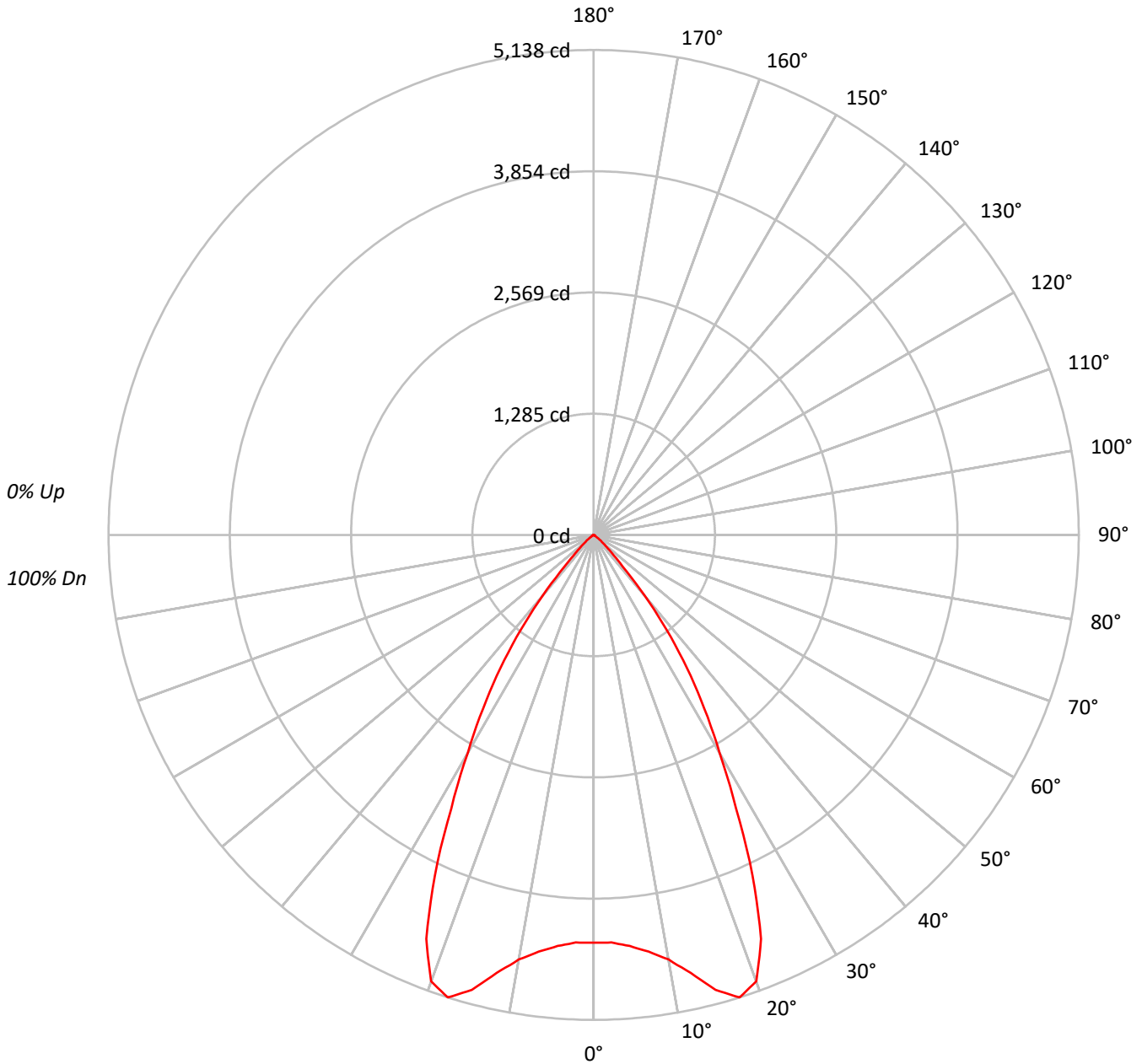
Lumens per Lamp: N/A
Luminaire Lumens: 4988.7 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.96
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 94 |
| 2 | 108 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 92 | 90 | 89 | 87 |
| 3 | 102 | 96 | 91 | 87 | 100 | 95 | 90 | 86 | 92 | 88 | 85 | 90 | 86 | 84 | 87 | 85 | 82 | 81 |
| 4 | 97 | 90 | 84 | 80 | 95 | 89 | 83 | 79 | 86 | 82 | 79 | 84 | 81 | 78 | 83 | 79 | 77 | 75 |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 78 | 73 | 81 | 76 | 73 | 80 | 75 | 72 | 78 | 74 | 72 | 70 |
| 6 | 88 | 79 | 73 | 68 | 86 | 78 | 72 | 68 | 76 | 71 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 65 |
| 7 | 83 | 74 | 68 | 64 | 82 | 73 | 68 | 63 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 62 | 61 |
| 8 | 79 | 70 | 63 | 59 | 78 | 69 | 63 | 59 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 58 | 57 |
| 9 | 75 | 66 | 60 | 56 | 74 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 62 | 58 | 55 | 54 |
| 10 | 72 | 62 | 56 | 52 | 71 | 61 | 56 | 52 | 61 | 55 | 52 | 60 | 55 | 52 | 59 | 55 | 52 | 50 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 236900 |
| 5° | 240589 |
| 10° | 254287 |
| 15° | 283140 |
| 20° | 293629 |
| 25° | 240915 |
| 30° | 168811 |
| 35° | 115168 |
| 40° | 59991 |
| 45° | 21087 |
| 50° | 9441 |
| 55° | 3030 |
| 60° | 1732 |
| 65° | 1232 |
| 70° | 1010 |
| 75° | 678 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 423.5 | 8.5 |
| 10°-20° | 1403.1 | 28.1 |
| 20°-30° | 1786.5 | 35.8 |
| 30°-40° | 1064.7 | 21.3 |
| 40°-50° | 258.2 | 5.2 |
| 50°-60° | 39.6 | 0.8 |
| 60°-70° | 9.7 | 0.2 |
| 70°-80° | 3.4 | 0.1 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 3613.1 | 72.4 |
| 0°-40° | 4677.8 | 93.8 |
| 0°-60° | 4975.6 | 99.7 |
| 0°-90° | 4988.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4988.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4321 | |
| 5° | 4372 | 423 |
| 15° | 4989 | 1403 |
| 25° | 3983 | 1787 |
| 35° | 1721 | 1065 |
| 45° | 272 | 258 |
| 55° | 32 | 40 |
| 65° | 10 | 10 |
| 75° | 3 | 3 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 4321.4 |
| 2.5° | 4321.4 |
| 5° | 4372.0 |
| 7.5° | 4451.1 |
| 10° | 4568.1 |
| 12.5° | 4751.6 |
| 15° | 4988.9 |
| 17.5° | 5137.6 |
| 20° | 5033.2 |
| 22.5° | 4631.5 |
| 25° | 3982.9 |
| 27.5° | 3268.0 |
| 30° | 2666.8 |
| 32.5° | 2179.7 |
| 35° | 1720.9 |
| 37.5° | 1268.6 |
| 40° | 838.3 |
| 42.5° | 452.4 |
| 45° | 272.0 |
| 47.5° | 170.8 |
| 50° | 110.7 |
| 52.5° | 66.4 |
| 55° | 31.7 |
| 57.5° | 19.0 |
| 60° | 15.8 |
| 62.5° | 12.7 |
| 65° | 9.5 |
| 67.5° | 6.3 |
| 70° | 6.3 |
| 72.5° | 3.2 |
| 75° | 3.2 |
| 77.5° | 3.2 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 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)