

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: P593330

Luminaire Tested: **HCC6W45D010MB-HM64560950-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W45D010MB-HM64560950-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

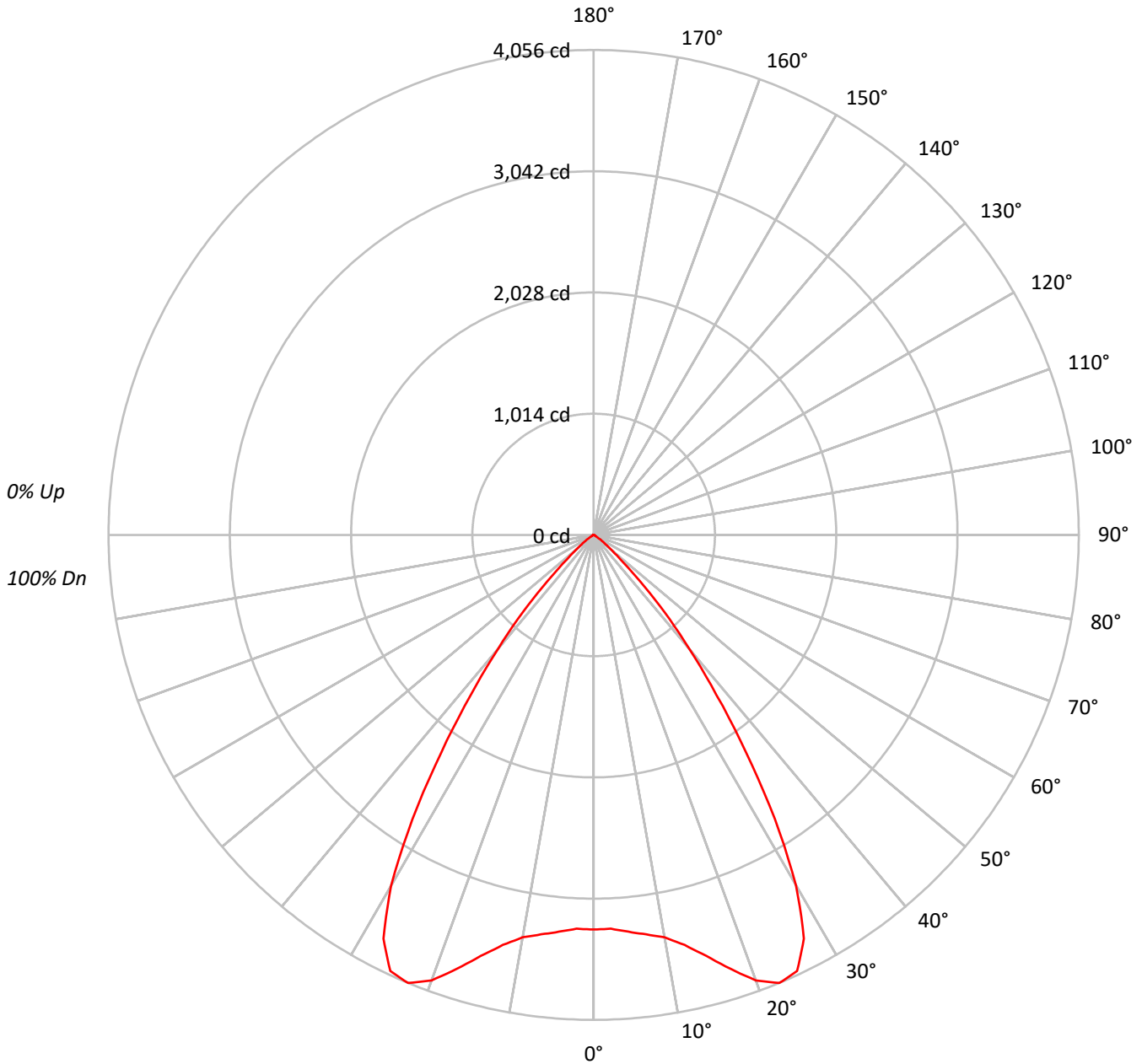
Lumens per Lamp: N/A
Luminaire Lumens: 5102.6 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 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 | 100 | 100 |
| 1 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 103 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 96 | 94 | 93 | 93 | 93 | 93 |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 | 85 | 85 | 85 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 82 | 88 | 84 | 81 | 85 | 82 | 80 | 78 | 78 | 78 | 78 |
| 4 | 95 | 87 | 81 | 77 | 93 | 86 | 80 | 76 | 84 | 79 | 75 | 82 | 78 | 74 | 80 | 76 | 74 | 72 | 72 | 72 | 72 |
| 5 | 90 | 81 | 75 | 70 | 88 | 80 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 66 | 66 | 66 | 66 |
| 6 | 85 | 75 | 69 | 64 | 83 | 74 | 68 | 64 | 73 | 67 | 63 | 71 | 67 | 63 | 70 | 66 | 62 | 61 | 61 | 61 | 61 |
| 7 | 80 | 70 | 63 | 59 | 79 | 69 | 63 | 59 | 68 | 62 | 58 | 67 | 62 | 58 | 66 | 61 | 58 | 56 | 56 | 56 | 56 |
| 8 | 76 | 65 | 59 | 54 | 74 | 65 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 53 | 52 | 52 | 52 | 52 |
| 9 | 71 | 61 | 55 | 50 | 70 | 60 | 54 | 50 | 60 | 54 | 50 | 59 | 53 | 50 | 58 | 53 | 50 | 48 | 48 | 48 | 48 |
| 10 | 68 | 57 | 51 | 47 | 67 | 57 | 51 | 47 | 56 | 50 | 46 | 55 | 50 | 46 | 54 | 50 | 46 | 45 | 45 | 45 | 45 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 180896 |
| 5° | 183326 |
| 10° | 190199 |
| 15° | 206846 |
| 20° | 231265 |
| 25° | 243419 |
| 30° | 214292 |
| 35° | 148636 |
| 40° | 88752 |
| 45° | 42190 |
| 50° | 15914 |
| 55° | 6652 |
| 60° | 2083 |
| 65° | 1647 |
| 70° | 1010 |
| 75° | 678 |
| 80° | 1010 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 320.6 | 6.3 |
| 10°-20° | 1046.5 | 20.5 |
| 20°-30° | 1793.3 | 35.1 |
| 30°-40° | 1392.7 | 27.3 |
| 40°-50° | 460.4 | 9.0 |
| 50°-60° | 70.6 | 1.4 |
| 60°-70° | 12.5 | 0.2 |
| 70°-80° | 4.6 | 0.1 |
| 80°-90° | 1.3 | 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° | 3160.5 | 61.9 |
| 0°-40° | 4553.2 | 89.2 |
| 0°-60° | 5084.2 | 99.6 |
| 0°-90° | 5102.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5102.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3300 | |
| 5° | 3331 | 321 |
| 15° | 3645 | 1047 |
| 25° | 4024 | 1793 |
| 35° | 2221 | 1393 |
| 45° | 544 | 460 |
| 55° | 70 | 71 |
| 65° | 13 | 12 |
| 75° | 3 | 5 |
| 85° | 0 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 3299.8 |
| 2.5° | 3296.6 |
| 5° | 3331.4 |
| 7.5° | 3369.4 |
| 10° | 3416.8 |
| 12.5° | 3511.7 |
| 15° | 3644.6 |
| 17.5° | 3806.0 |
| 20° | 3964.2 |
| 22.5° | 4056.0 |
| 25° | 4024.3 |
| 27.5° | 3806.0 |
| 30° | 3385.3 |
| 32.5° | 2819.0 |
| 35° | 2221.0 |
| 37.5° | 1686.3 |
| 40° | 1240.2 |
| 42.5° | 876.3 |
| 45° | 544.2 |
| 47.5° | 303.7 |
| 50° | 186.6 |
| 52.5° | 113.9 |
| 55° | 69.6 |
| 57.5° | 34.8 |
| 60° | 19.0 |
| 62.5° | 15.8 |
| 65° | 12.7 |
| 67.5° | 9.5 |
| 70° | 6.3 |
| 72.5° | 6.3 |
| 75° | 3.2 |
| 77.5° | 3.2 |
| 80° | 3.2 |
| 82.5° | 3.2 |
| 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)