

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: P581526

Luminaire Tested: **HCC4W07D010BZ-HM40525935-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W07D010BZ-HM40525935-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

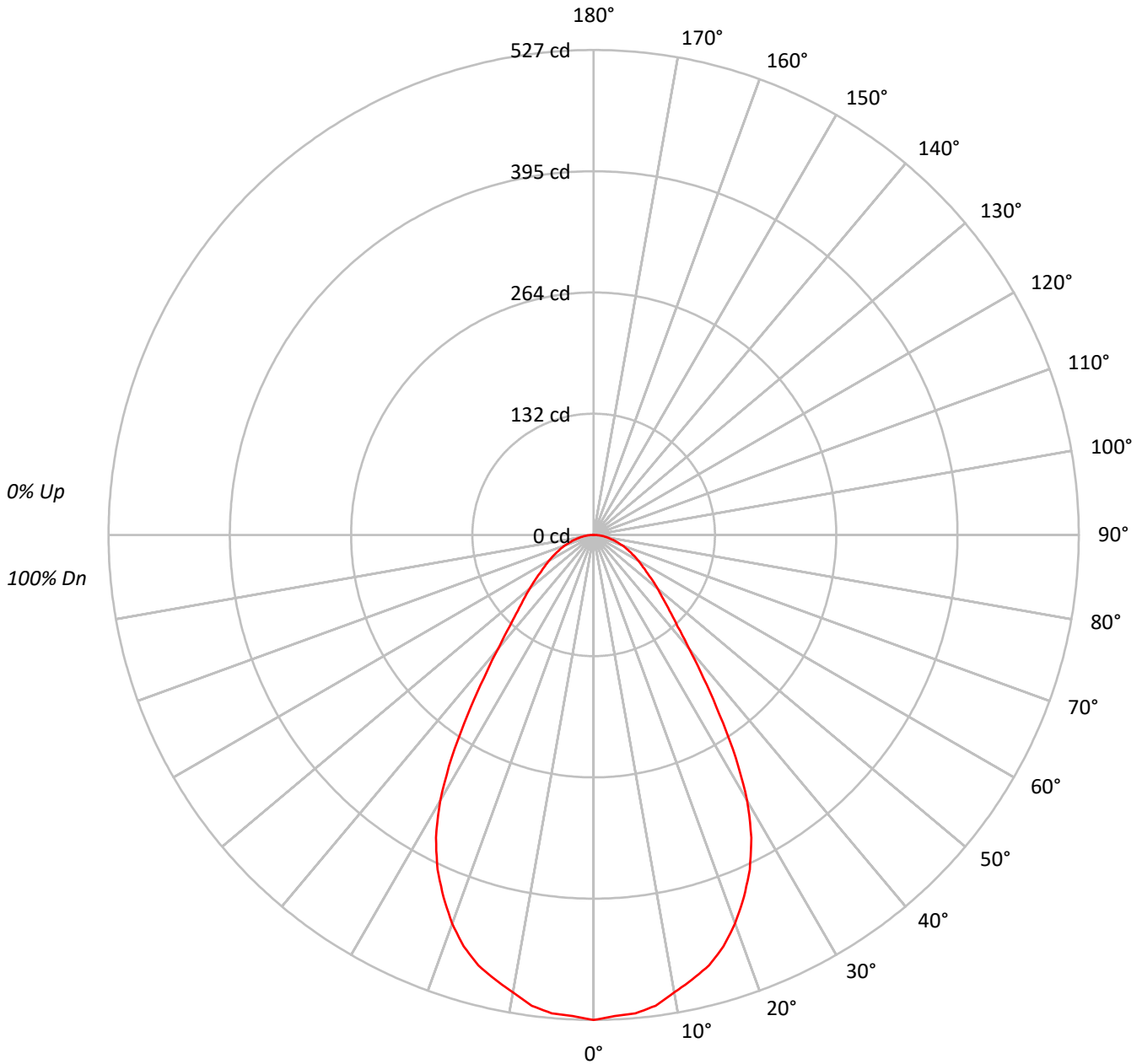
Lumens per Lamp: N/A
Luminaire Lumens: 748.5 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | |
| 1 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 80 | 78 | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | |
| 4 | 90 | 80 | 73 | 68 | 88 | 79 | 72 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | 63 | | |
| 5 | 84 | 74 | 66 | 61 | 82 | 72 | 66 | 60 | 71 | 64 | 60 | 69 | 63 | 59 | 67 | 62 | 59 | 57 | | |
| 6 | 79 | 68 | 60 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 53 | 52 | | |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 61 | 54 | 50 | 59 | 54 | 49 | 58 | 53 | 49 | 47 | | |
| 8 | 70 | 58 | 51 | 46 | 68 | 58 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 45 | 54 | 49 | 45 | 44 | | |
| 9 | 66 | 54 | 47 | 42 | 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° | 65015 |
| 5° | 64608 |
| 10° | 63225 |
| 15° | 61831 |
| 20° | 58976 |
| 25° | 54588 |
| 30° | 47485 |
| 35° | 35867 |
| 40° | 25988 |
| 45° | 20304 |
| 50° | 17366 |
| 55° | 15032 |
| 60° | 13839 |
| 65° | 12667 |
| 70° | 11829 |
| 75° | 10866 |
| 80° | 10158 |
| 85° | 9624 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.3 | 6.6 |
| 10°-20° | 135.6 | 18.1 |
| 20°-30° | 182.4 | 24.4 |
| 30°-40° | 150.0 | 20.0 |
| 40°-50° | 92.1 | 12.3 |
| 50°-60° | 63.8 | 8.5 |
| 60°-70° | 43.4 | 5.8 |
| 70°-80° | 24.2 | 3.2 |
| 80°-90° | 7.7 | 1.0 |
| 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° | 367.3 | 49.1 |
| 0°-40° | 517.3 | 69.1 |
| 0°-60° | 673.2 | 89.9 |
| 0°-90° | 748.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 748.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 527 | |
| 5° | 522 | 49 |
| 15° | 484 | 136 |
| 25° | 401 | 182 |
| 35° | 238 | 150 |
| 45° | 116 | 92 |
| 55° | 70 | 64 |
| 65° | 43 | 43 |
| 75° | 23 | 24 |
| 85° | 7 | 8 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 527.1 |
| 2.5° | 523.4 |
| 5° | 521.8 |
| 7.5° | 516.0 |
| 10° | 504.8 |
| 12.5° | 494.8 |
| 15° | 484.2 |
| 17.5° | 468.9 |
| 20° | 449.3 |
| 22.5° | 426.1 |
| 25° | 401.1 |
| 27.5° | 371.0 |
| 30° | 333.4 |
| 32.5° | 287.3 |
| 35° | 238.2 |
| 37.5° | 195.8 |
| 40° | 161.4 |
| 42.5° | 135.0 |
| 45° | 116.4 |
| 47.5° | 102.2 |
| 50° | 90.5 |
| 52.5° | 79.9 |
| 55° | 69.9 |
| 57.5° | 62.5 |
| 60° | 56.1 |
| 62.5° | 49.7 |
| 65° | 43.4 |
| 67.5° | 38.1 |
| 70° | 32.8 |
| 72.5° | 27.5 |
| 75° | 22.8 |
| 77.5° | 18.0 |
| 80° | 14.3 |
| 82.5° | 10.6 |
| 85° | 6.8 |
| 87.5° | 3.8 |
| 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)