

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: P584560

Luminaire Tested: **HCC8W40D010MW-HM82555840-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W40D010MW-HM82555840-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

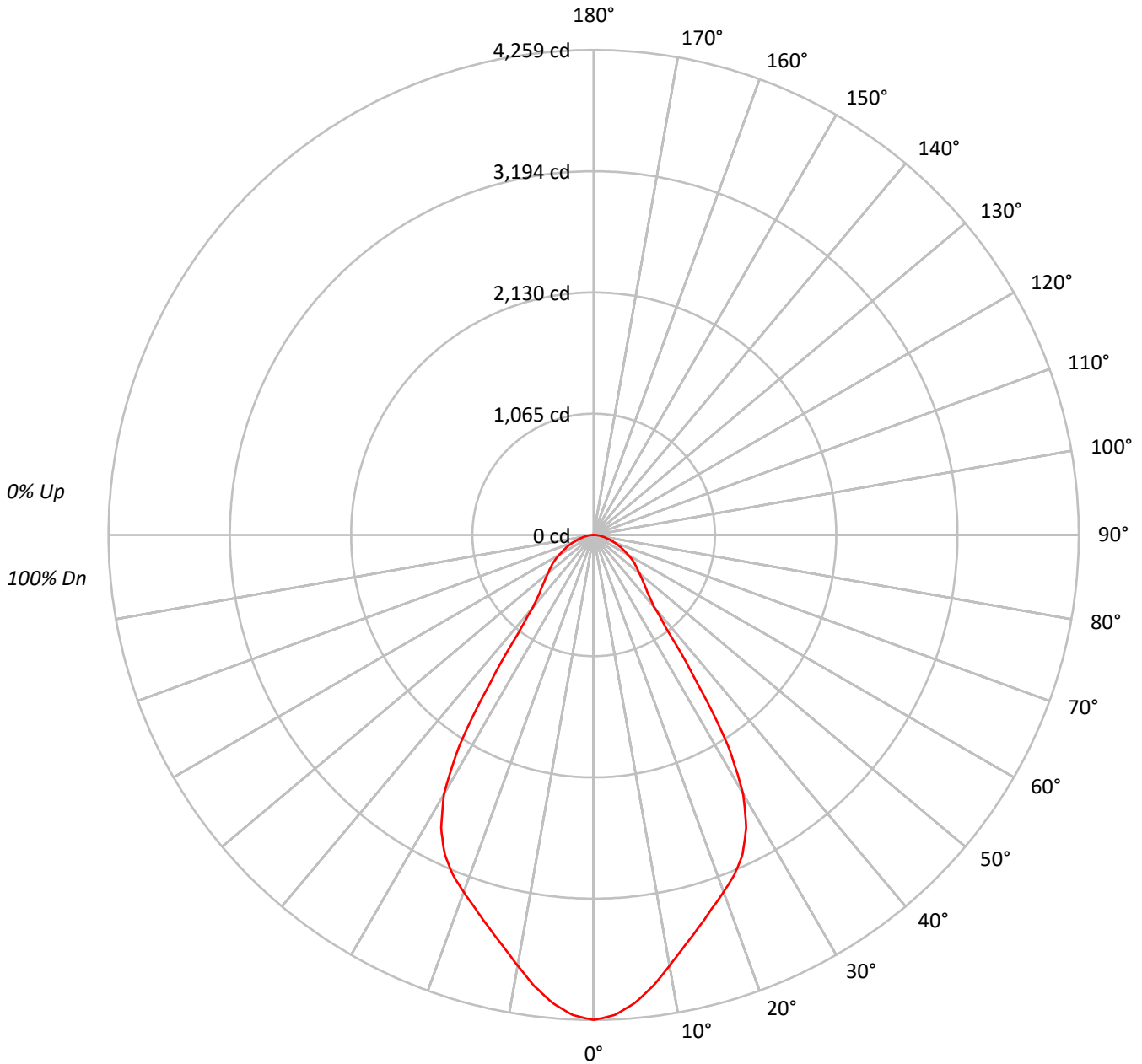
Lumens per Lamp: N/A
Luminaire Lumens: 5136.5 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 92 | 90 | 90 | 90 | 90 |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 | 80 | 80 | 80 |
| 3 | 98 | 89 | 83 | 78 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | 83 | 78 | 75 | 80 | 77 | 74 | 72 | 72 | 72 | 72 |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 69 | 76 | 72 | 68 | 74 | 70 | 67 | 65 | 65 | 65 | 65 |
| 5 | 86 | 76 | 68 | 63 | 84 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 66 | 62 | 69 | 65 | 61 | 59 | 59 | 59 | 59 |
| 6 | 81 | 70 | 63 | 58 | 79 | 69 | 62 | 57 | 67 | 61 | 57 | 66 | 61 | 56 | 64 | 60 | 56 | 54 | 54 | 54 | 54 |
| 7 | 76 | 65 | 58 | 53 | 74 | 64 | 57 | 53 | 63 | 57 | 52 | 62 | 56 | 52 | 60 | 55 | 52 | 50 | 50 | 50 | 50 |
| 8 | 72 | 61 | 54 | 49 | 70 | 60 | 53 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 46 | 46 | 46 | 46 |
| 9 | 68 | 57 | 50 | 45 | 67 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 43 | 43 | 43 | 43 |
| 10 | 64 | 53 | 46 | 42 | 63 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 50 | 45 | 42 | 40 | 40 | 40 | 40 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 131338 |
| 5° | 127763 |
| 10° | 120229 |
| 15° | 113829 |
| 20° | 109492 |
| 25° | 105267 |
| 30° | 93489 |
| 35° | 59538 |
| 40° | 33230 |
| 45° | 27831 |
| 50° | 25123 |
| 55° | 23682 |
| 60° | 21604 |
| 65° | 19482 |
| 70° | 17202 |
| 75° | 15286 |
| 80° | 13549 |
| 85° | 12242 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 384.8 | 7.5 |
| 10°-20° | 1005.6 | 19.6 |
| 20°-30° | 1402.9 | 27.3 |
| 30°-40° | 1009.4 | 19.7 |
| 40°-50° | 500.2 | 9.7 |
| 50°-60° | 391.4 | 7.6 |
| 60°-70° | 265.0 | 5.2 |
| 70°-80° | 137.6 | 2.7 |
| 80°-90° | 39.6 | 0.8 |
| 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° | 2793.2 | 54.4 |
| 0°-40° | 3802.6 | 74.0 |
| 0°-60° | 4694.3 | 91.4 |
| 0°-90° | 5136.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5136.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4259 | |
| 5° | 4128 | 385 |
| 15° | 3566 | 1006 |
| 25° | 3094 | 1403 |
| 35° | 1582 | 1009 |
| 45° | 638 | 500 |
| 55° | 440 | 391 |
| 65° | 267 | 265 |
| 75° | 128 | 138 |
| 85° | 35 | 40 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 4259.2 |
| 2.5° | 4221.2 |
| 5° | 4127.5 |
| 7.5° | 3995.7 |
| 10° | 3839.7 |
| 12.5° | 3693.9 |
| 15° | 3565.6 |
| 17.5° | 3444.2 |
| 20° | 3336.6 |
| 22.5° | 3229.2 |
| 25° | 3093.9 |
| 27.5° | 2899.7 |
| 30° | 2625.6 |
| 32.5° | 2195.5 |
| 35° | 1581.6 |
| 37.5° | 1078.7 |
| 40° | 825.5 |
| 42.5° | 711.0 |
| 45° | 638.2 |
| 47.5° | 575.7 |
| 50° | 523.7 |
| 52.5° | 478.6 |
| 55° | 440.5 |
| 57.5° | 395.4 |
| 60° | 350.3 |
| 62.5° | 305.2 |
| 65° | 267.0 |
| 67.5° | 229.0 |
| 70° | 190.8 |
| 72.5° | 159.6 |
| 75° | 128.3 |
| 77.5° | 100.6 |
| 80° | 76.3 |
| 82.5° | 55.5 |
| 85° | 34.6 |
| 87.5° | 17.4 |
| 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)