

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: P584511

Luminaire Tested: **HCC8S40D010MW-HM82555827-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S40D010MW-HM82555827-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

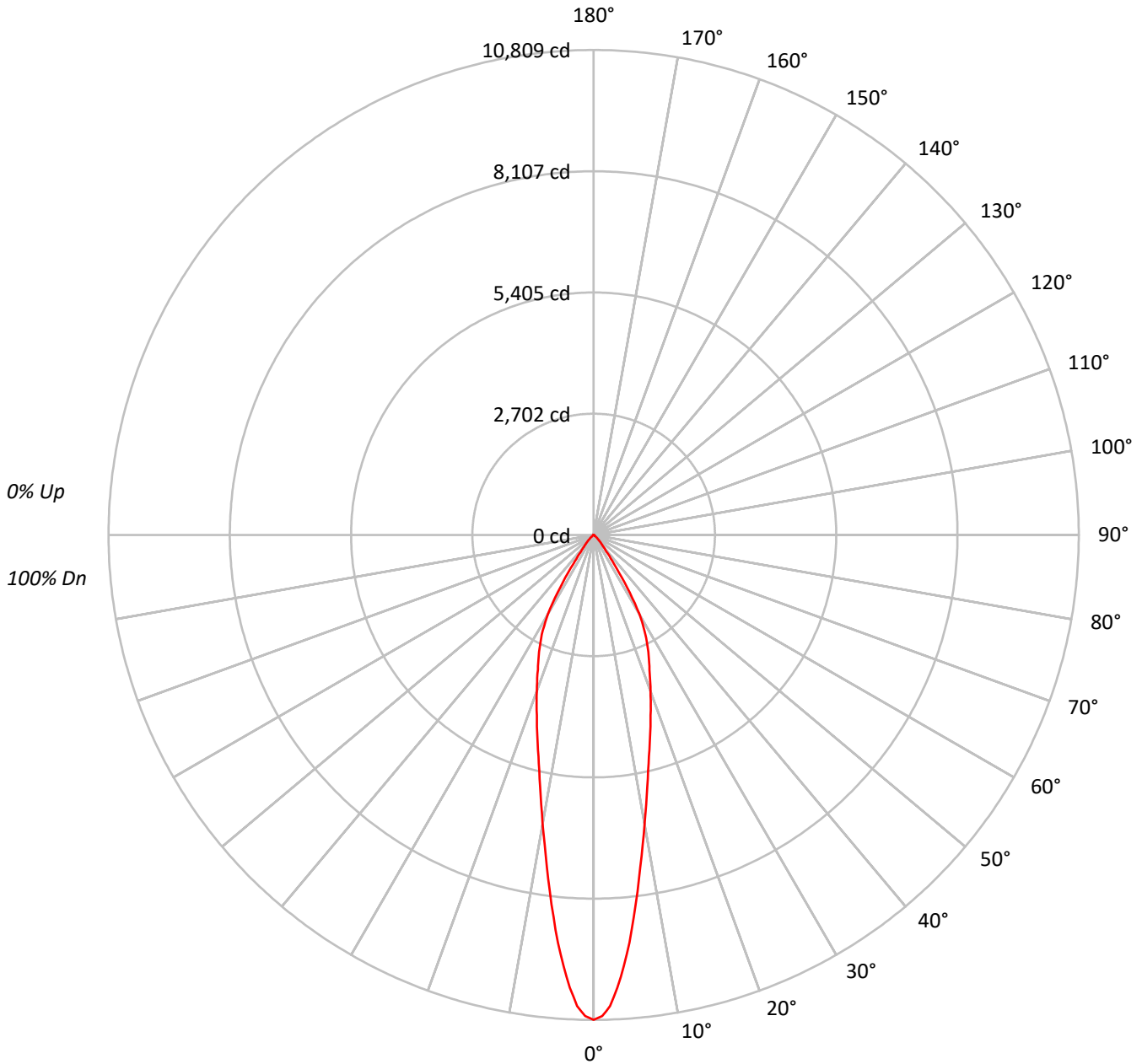
Lumens per Lamp: N/A
Luminaire Lumens: 4188.8 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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 | | | |
| 1 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99 | 98 | 97 | 96 | 95 | | | |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 92 | 91 | 89 | | | |
| 3 | 104 | 99 | 94 | 91 | 102 | 97 | 93 | 90 | 95 | 91 | 88 | 92 | 90 | 87 | 90 | 88 | 86 | 84 | | | |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 80 | | | |
| 5 | 96 | 88 | 83 | 79 | 94 | 87 | 82 | 79 | 86 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 77 | 75 | | | |
| 6 | 92 | 84 | 78 | 75 | 90 | 83 | 78 | 74 | 81 | 77 | 74 | 80 | 76 | 73 | 79 | 76 | 73 | 72 | | | |
| 7 | 88 | 80 | 74 | 70 | 87 | 79 | 74 | 70 | 78 | 73 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 68 | | | |
| 8 | 84 | 76 | 71 | 67 | 83 | 75 | 70 | 67 | 74 | 70 | 66 | 73 | 69 | 66 | 72 | 69 | 66 | 65 | | | |
| 9 | 81 | 72 | 67 | 64 | 80 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 66 | 63 | 62 | | | |
| 10 | 78 | 69 | 64 | 61 | 77 | 69 | 64 | 61 | 68 | 63 | 60 | 67 | 63 | 60 | 67 | 63 | 60 | 59 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 333304 |
| 5° | 282376 |
| 10° | 204878 |
| 15° | 153858 |
| 20° | 121397 |
| 25° | 97921 |
| 30° | 72563 |
| 35° | 29400 |
| 40° | 12398 |
| 45° | 6646 |
| 50° | 2984 |
| 55° | 1505 |
| 60° | 962 |
| 65° | 679 |
| 70° | 559 |
| 75° | 369 |
| 80° | 550 |
| 85° | 1097 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 783.2 | 18.7 |
| 10°-20° | 1353.6 | 32.3 |
| 20°-30° | 1308.7 | 31.2 |
| 30°-40° | 574.8 | 13.7 |
| 40°-50° | 124.2 | 3.0 |
| 50°-60° | 27.9 | 0.7 |
| 60°-70° | 9.6 | 0.2 |
| 70°-80° | 3.7 | 0.1 |
| 80°-90° | 3.0 | 0.1 |
| 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° | 3445.6 | 82.3 |
| 0°-40° | 4020.4 | 96.0 |
| 0°-60° | 4172.6 | 99.6 |
| 0°-90° | 4188.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4188.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 10809 | |
| 5° | 9122 | 783 |
| 15° | 4820 | 1354 |
| 25° | 2878 | 1309 |
| 35° | 781 | 575 |
| 45° | 152 | 124 |
| 55° | 28 | 28 |
| 65° | 9 | 10 |
| 75° | 3 | 4 |
| 85° | 3 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 10808.8 |
| 1° | 10728.0 |
| 2° | 10507.0 |
| 3° | 10108.8 |
| 4° | 9632.7 |
| 5° | 9122.4 |
| 6° | 8565.5 |
| 7° | 8005.5 |
| 8° | 7479.6 |
| 9° | 6991.1 |
| 10° | 6543.1 |
| 11° | 6120.1 |
| 12° | 5740.4 |
| 13° | 5395.1 |
| 14° | 5090.1 |
| 15° | 4819.5 |
| 17.5° | 4212.7 |
| 20° | 3699.4 |
| 22.5° | 3248.2 |
| 25° | 2878.0 |
| 27.5° | 2501.5 |
| 30° | 2037.9 |
| 32.5° | 1384.6 |
| 35° | 781.0 |
| 37.5° | 460.5 |
| 40° | 308.0 |
| 42.5° | 217.8 |
| 45° | 152.4 |
| 47.5° | 99.6 |
| 50° | 62.2 |
| 52.5° | 37.4 |
| 55° | 28.0 |
| 57.5° | 21.8 |
| 60° | 15.6 |
| 62.5° | 12.5 |
| 65° | 9.3 |
| 67.5° | 6.2 |
| 70° | 6.2 |
| 72.5° | 3.1 |
| 75° | 3.1 |
| 77.5° | 3.1 |
| 80° | 3.1 |
| 82.5° | 3.1 |

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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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| | |
|-------|-----|
| 85° | 3.1 |
| 87.5° | 3.1 |

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(END OF REPORT)