

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: P584579

Luminaire Tested: **HCC8S40D010SL-HM82555927-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584579
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: HCC8S40D010SL-HM82555927-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

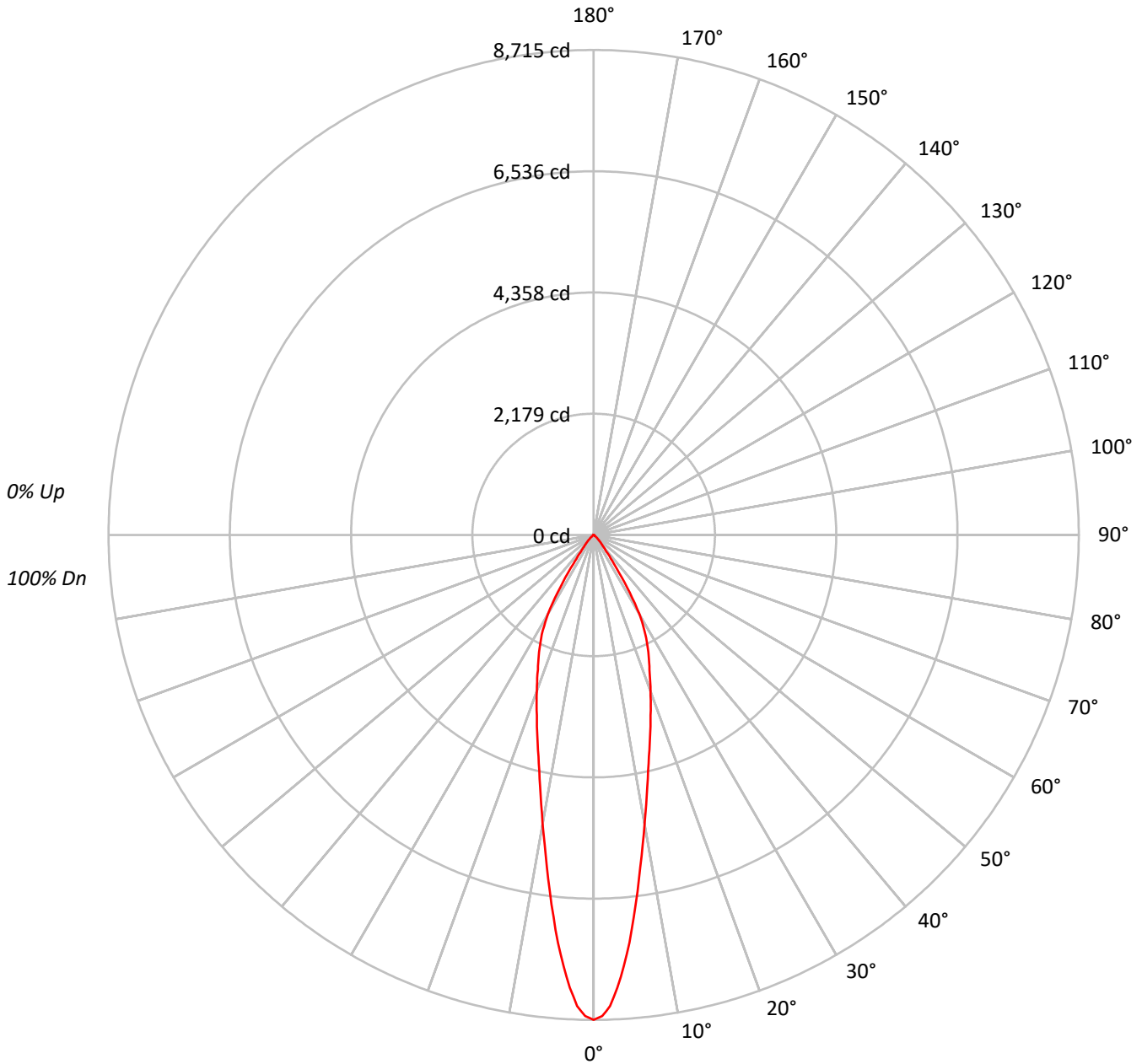
Lumens per Lamp: N/A
Luminaire Lumens: 3377.4 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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° | 268742 |
| 5° | 227680 |
| 10° | 165193 |
| 15° | 124054 |
| 20° | 97878 |
| 25° | 78953 |
| 30° | 58509 |
| 35° | 23701 |
| 40° | 9999 |
| 45° | 5360 |
| 50° | 2408 |
| 55° | 1215 |
| 60° | 771 |
| 65° | 547 |
| 70° | 451 |
| 75° | 298 |
| 80° | 444 |
| 85° | 885 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 631.5 | 18.7 |
| 10°-20° | 1091.4 | 32.3 |
| 20°-30° | 1055.2 | 31.2 |
| 30°-40° | 463.5 | 13.7 |
| 40°-50° | 100.2 | 3.0 |
| 50°-60° | 22.5 | 0.7 |
| 60°-70° | 7.7 | 0.2 |
| 70°-80° | 3.0 | 0.1 |
| 80°-90° | 2.4 | 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° | 2778.2 | 82.3 |
| 0°-40° | 3241.6 | 96.0 |
| 0°-60° | 3364.3 | 99.6 |
| 0°-90° | 3377.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3377.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 8715 | |
| 5° | 7355 | 632 |
| 15° | 3886 | 1091 |
| 25° | 2320 | 1055 |
| 35° | 630 | 463 |
| 45° | 123 | 100 |
| 55° | 23 | 23 |
| 65° | 8 | 8 |
| 75° | 2 | 3 |
| 85° | 2 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 8715.1 |
| 1° | 8649.9 |
| 2° | 8471.7 |
| 3° | 8150.5 |
| 4° | 7766.8 |
| 5° | 7355.4 |
| 6° | 6906.3 |
| 7° | 6454.8 |
| 8° | 6030.8 |
| 9° | 5636.9 |
| 10° | 5275.7 |
| 11° | 4934.6 |
| 12° | 4628.5 |
| 13° | 4350.0 |
| 14° | 4104.2 |
| 15° | 3885.9 |
| 17.5° | 3396.7 |
| 20° | 2982.7 |
| 22.5° | 2619.1 |
| 25° | 2320.5 |
| 27.5° | 2016.9 |
| 30° | 1643.2 |
| 32.5° | 1116.3 |
| 35° | 629.6 |
| 37.5° | 371.3 |
| 40° | 248.4 |
| 42.5° | 175.6 |
| 45° | 122.9 |
| 47.5° | 80.3 |
| 50° | 50.2 |
| 52.5° | 30.1 |
| 55° | 22.6 |
| 57.5° | 17.6 |
| 60° | 12.5 |
| 62.5° | 10.0 |
| 65° | 7.5 |
| 67.5° | 5.0 |
| 70° | 5.0 |
| 72.5° | 2.5 |
| 75° | 2.5 |
| 77.5° | 2.5 |
| 80° | 2.5 |
| 82.5° | 2.5 |

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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° | | 2.5 |
| 87.5° | | 2.5 |

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(END OF REPORT)