

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: P584711

Luminaire Tested: **HCC8S45D010BZ-HM82555927-81MDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S45D010BZ-HM82555927-81MDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

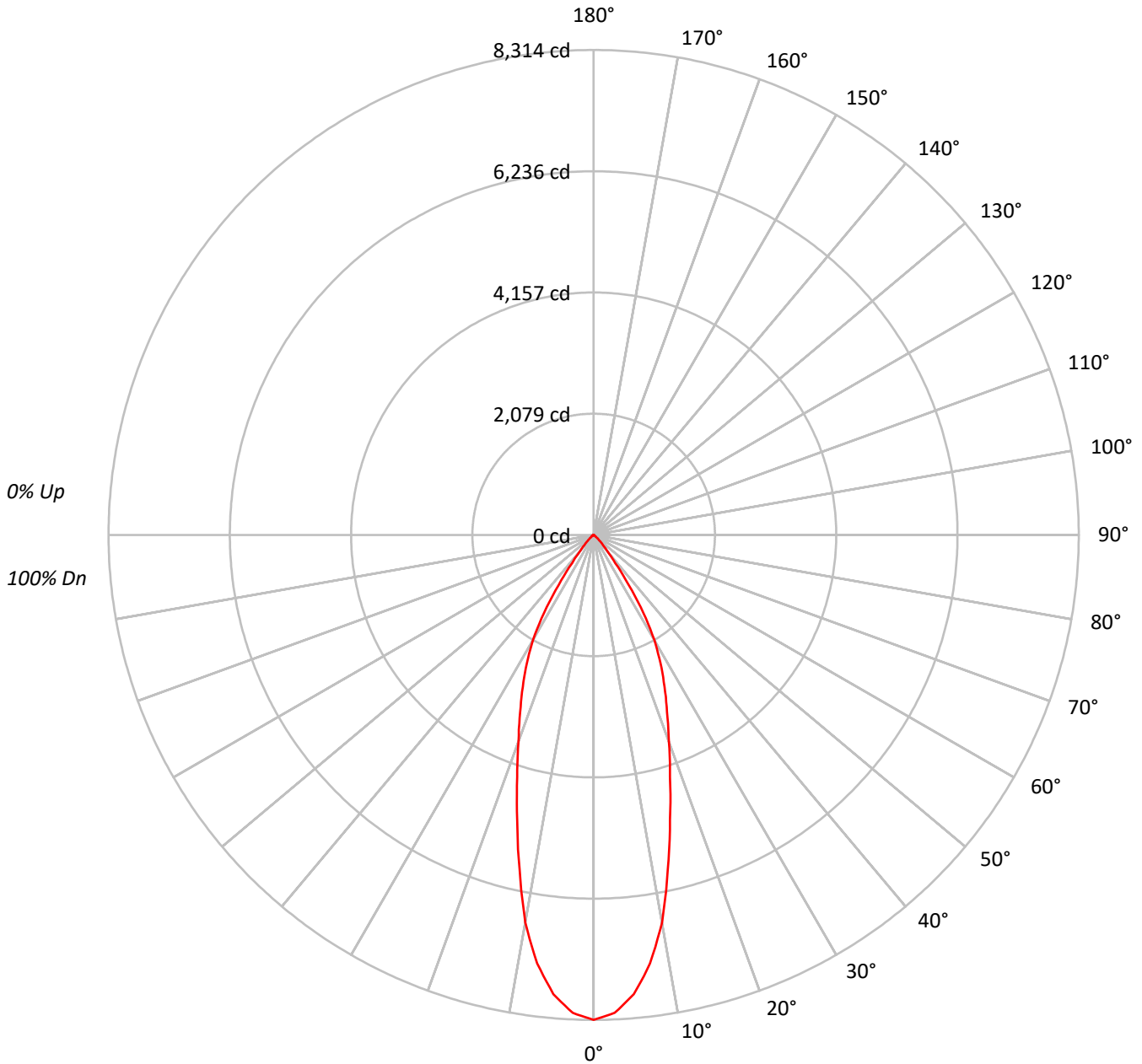
Lumens per Lamp: N/A
Luminaire Lumens: 4291.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.67
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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 | | | |
| 1 | 114 | 111 | 109 | 107 | 112 | 109 | 107 | 105 | 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 | 98 | 94 | 90 | 102 | 97 | 93 | 90 | 94 | 91 | 88 | 92 | 89 | 87 | 90 | 87 | 85 | 84 | | | |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 83 | 90 | 86 | 82 | 88 | 84 | 82 | 86 | 83 | 81 | 79 | | | |
| 5 | 95 | 88 | 82 | 78 | 94 | 87 | 82 | 78 | 85 | 81 | 77 | 83 | 80 | 77 | 82 | 79 | 76 | 75 | | | |
| 6 | 91 | 83 | 78 | 74 | 90 | 82 | 77 | 73 | 81 | 76 | 73 | 79 | 76 | 73 | 78 | 75 | 72 | 71 | | | |
| 7 | 87 | 79 | 73 | 70 | 86 | 78 | 73 | 69 | 77 | 72 | 69 | 76 | 72 | 69 | 75 | 71 | 68 | 67 | | | |
| 8 | 84 | 75 | 70 | 66 | 82 | 74 | 69 | 66 | 73 | 69 | 65 | 72 | 68 | 65 | 71 | 68 | 65 | 64 | | | |
| 9 | 80 | 71 | 66 | 62 | 79 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 68 | 65 | 62 | 61 | | | |
| 10 | 77 | 68 | 63 | 59 | 76 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 65 | 62 | 59 | 58 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 256379 |
| 5° | 244618 |
| 10° | 211196 |
| 15° | 161494 |
| 20° | 123563 |
| 25° | 97755 |
| 30° | 73845 |
| 35° | 39285 |
| 40° | 14962 |
| 45° | 7182 |
| 50° | 3056 |
| 55° | 1285 |
| 60° | 493 |
| 65° | 387 |
| 70° | 243 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 717.4 | 16.7 |
| 10°-20° | 1412.2 | 32.9 |
| 20°-30° | 1315.2 | 30.7 |
| 30°-40° | 678.6 | 15.8 |
| 40°-50° | 138.2 | 3.2 |
| 50°-60° | 23.7 | 0.6 |
| 60°-70° | 4.6 | 0.1 |
| 70°-80° | 1.1 | 0.0 |
| 80°-90° | 0.0 | 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° | 3444.8 | 80.3 |
| 0°-40° | 4123.4 | 96.1 |
| 0°-60° | 4285.4 | 99.9 |
| 0°-90° | 4291.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4291.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 8314 | |
| 5° | 7903 | 717 |
| 15° | 5059 | 1412 |
| 25° | 2873 | 1315 |
| 35° | 1044 | 679 |
| 45° | 165 | 138 |
| 55° | 24 | 24 |
| 65° | 5 | 5 |
| 75° | 0 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 8314.2 |
| 2.5° | 8202.7 |
| 5° | 7902.6 |
| 7.5° | 7408.7 |
| 10° | 6744.9 |
| 12.5° | 5873.8 |
| 15° | 5058.7 |
| 17.5° | 4352.3 |
| 20° | 3765.4 |
| 22.5° | 3287.4 |
| 25° | 2873.1 |
| 27.5° | 2480.2 |
| 30° | 2073.9 |
| 32.5° | 1590.6 |
| 35° | 1043.6 |
| 37.5° | 605.4 |
| 40° | 371.7 |
| 42.5° | 244.3 |
| 45° | 164.7 |
| 47.5° | 103.6 |
| 50° | 63.7 |
| 52.5° | 37.2 |
| 55° | 23.9 |
| 57.5° | 10.7 |
| 60° | 8.0 |
| 62.5° | 5.3 |
| 65° | 5.3 |
| 67.5° | 2.7 |
| 70° | 2.7 |
| 72.5° | 2.7 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 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)