

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: P584544

Luminaire Tested: **HCC8W40D010BZ-HM82555835-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W40D010BZ-HM82555835-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

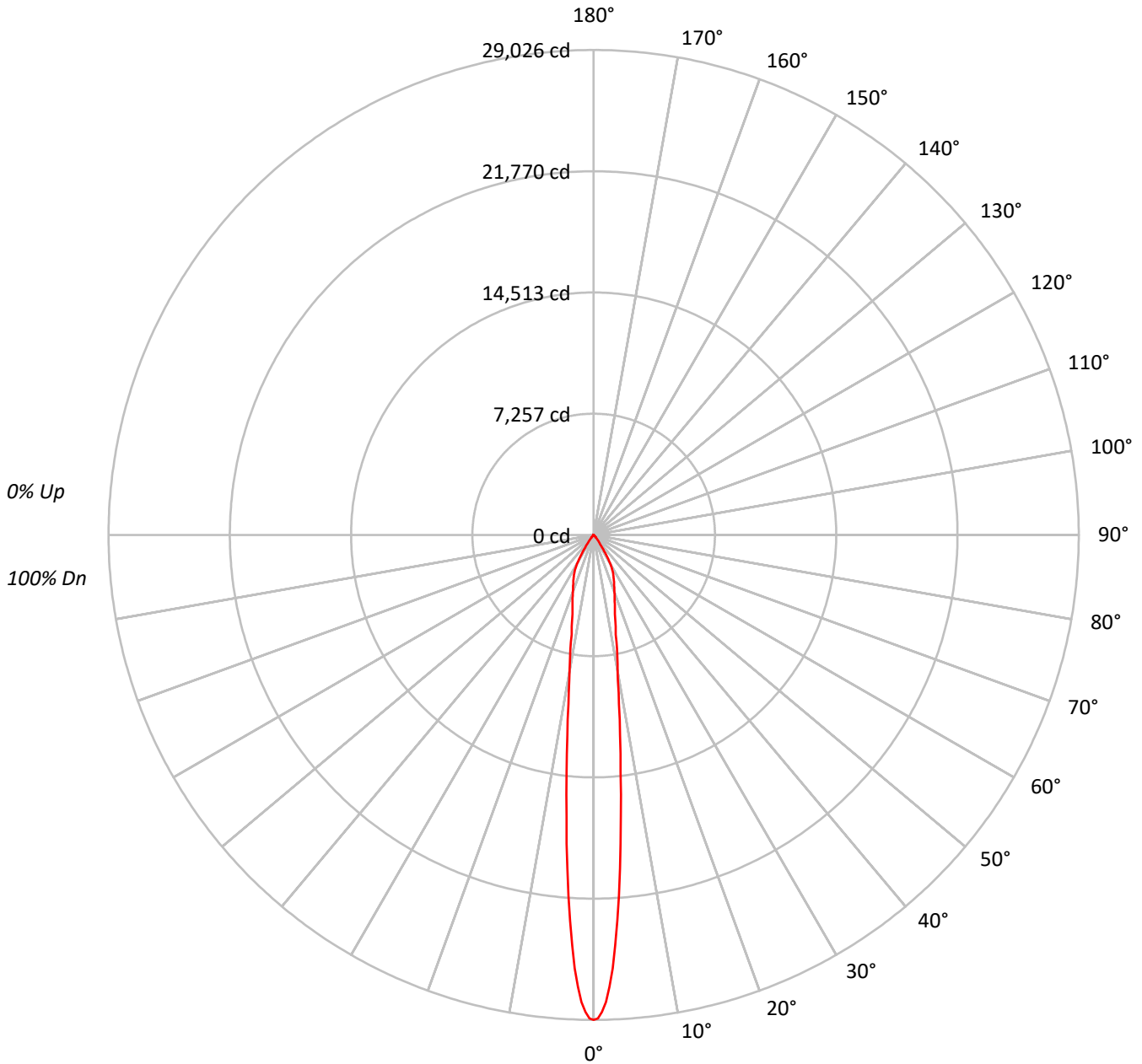
Lumens per Lamp: N/A
Luminaire Lumens: 4755.4 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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 | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | | | | |
| 2 | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99 | 101 | 99 | 97 | 98 | 96 | 95 | 96 | 94 | 93 | 91 | | | | |
| 3 | 106 | 101 | 97 | 93 | 104 | 99 | 96 | 93 | 97 | 94 | 91 | 95 | 92 | 90 | 92 | 90 | 89 | 87 | | | | |
| 4 | 102 | 96 | 91 | 88 | 100 | 95 | 91 | 88 | 93 | 89 | 87 | 91 | 88 | 86 | 89 | 87 | 85 | 83 | | | | |
| 5 | 98 | 92 | 87 | 83 | 97 | 91 | 86 | 83 | 89 | 85 | 82 | 87 | 84 | 82 | 86 | 83 | 81 | 80 | | | | |
| 6 | 95 | 88 | 83 | 79 | 93 | 87 | 82 | 79 | 86 | 82 | 79 | 84 | 81 | 78 | 83 | 80 | 78 | 76 | | | | |
| 7 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 75 | 81 | 78 | 75 | 80 | 77 | 75 | 73 | | | | |
| 8 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 79 | 75 | 72 | 78 | 75 | 72 | 77 | 74 | 72 | 71 | | | | |
| 9 | 85 | 78 | 73 | 70 | 84 | 77 | 73 | 70 | 76 | 72 | 70 | 76 | 72 | 69 | 75 | 72 | 69 | 68 | | | | |
| 10 | 83 | 75 | 70 | 67 | 82 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 67 | 73 | 69 | 67 | 66 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 895070 |
| 5° | 574115 |
| 10° | 259351 |
| 15° | 156482 |
| 20° | 119248 |
| 25° | 96298 |
| 30° | 70565 |
| 35° | 25553 |
| 40° | 9536 |
| 45° | 4326 |
| 50° | 1382 |
| 55° | 344 |
| 60° | 197 |
| 65° | 233 |
| 70° | 0 |
| 75° | 0 |
| 80° | 568 |
| 85° | 1132 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1414.6 | 29.7 |
| 10°-20° | 1436.8 | 30.2 |
| 20°-30° | 1286.2 | 27.0 |
| 30°-40° | 518.1 | 10.9 |
| 40°-50° | 84.9 | 1.8 |
| 50°-60° | 7.7 | 0.2 |
| 60°-70° | 2.8 | 0.1 |
| 70°-80° | 2.1 | 0.0 |
| 80°-90° | 3.1 | 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° | 4137.5 | 87.0 |
| 0°-40° | 4655.6 | 97.9 |
| 0°-60° | 4748.3 | 99.9 |
| 0°-90° | 4756.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4755.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 29026 | |
| 5° | 18547 | ### |
| 15° | 4902 | 1437 |
| 25° | 2830 | 1286 |
| 35° | 679 | 518 |
| 45° | 99 | 85 |
| 55° | 6 | 8 |
| 65° | 3 | 3 |
| 75° | 0 | 2 |
| 85° | 3 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 29026.5 |
| 0.5° | 28936.8 |
| 1° | 28562.1 |
| 1.5° | 27960.2 |
| 2° | 27047.7 |
| 2.5° | 25968.8 |
| 3° | 24617.8 |
| 3.5° | 23135.4 |
| 4° | 21668.9 |
| 4.5° | 20026.5 |
| 5° | 18547.3 |
| 5.5° | 16936.9 |
| 6° | 15630.6 |
| 6.5° | 14269.9 |
| 7° | 13200.6 |
| 7.5° | 12070.3 |
| 8° | 11161.0 |
| 8.5° | 10248.5 |
| 9° | 9563.4 |
| 9.5° | 8807.8 |
| 10° | 8282.8 |
| 12.5° | 6108.7 |
| 15° | 4901.7 |
| 17.5° | 4187.8 |
| 20° | 3633.9 |
| 22.5° | 3192.1 |
| 25° | 2830.3 |
| 27.5° | 2468.5 |
| 30° | 1981.8 |
| 32.5° | 1274.3 |
| 35° | 678.8 |
| 37.5° | 374.6 |
| 40° | 236.9 |
| 42.5° | 156.8 |
| 45° | 99.2 |
| 47.5° | 60.8 |
| 50° | 28.8 |
| 52.5° | 9.6 |
| 55° | 6.4 |
| 57.5° | 3.2 |
| 60° | 3.2 |
| 62.5° | 3.2 |
| 65° | 3.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 3.2 |
| 80° | 3.2 |
| 82.5° | 3.2 |
| 85° | 3.2 |
| 87.5° | 3.2 |
| 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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| | | |
|-------|--|-----|
| 67.5° | | 3.2 |
| 70° | | 0.0 |

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(END OF REPORT)