

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: P581522

Luminaire Tested: **HCC4S07D010BZ-HM40525935-41NDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010BZ-HM40525935-41NDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

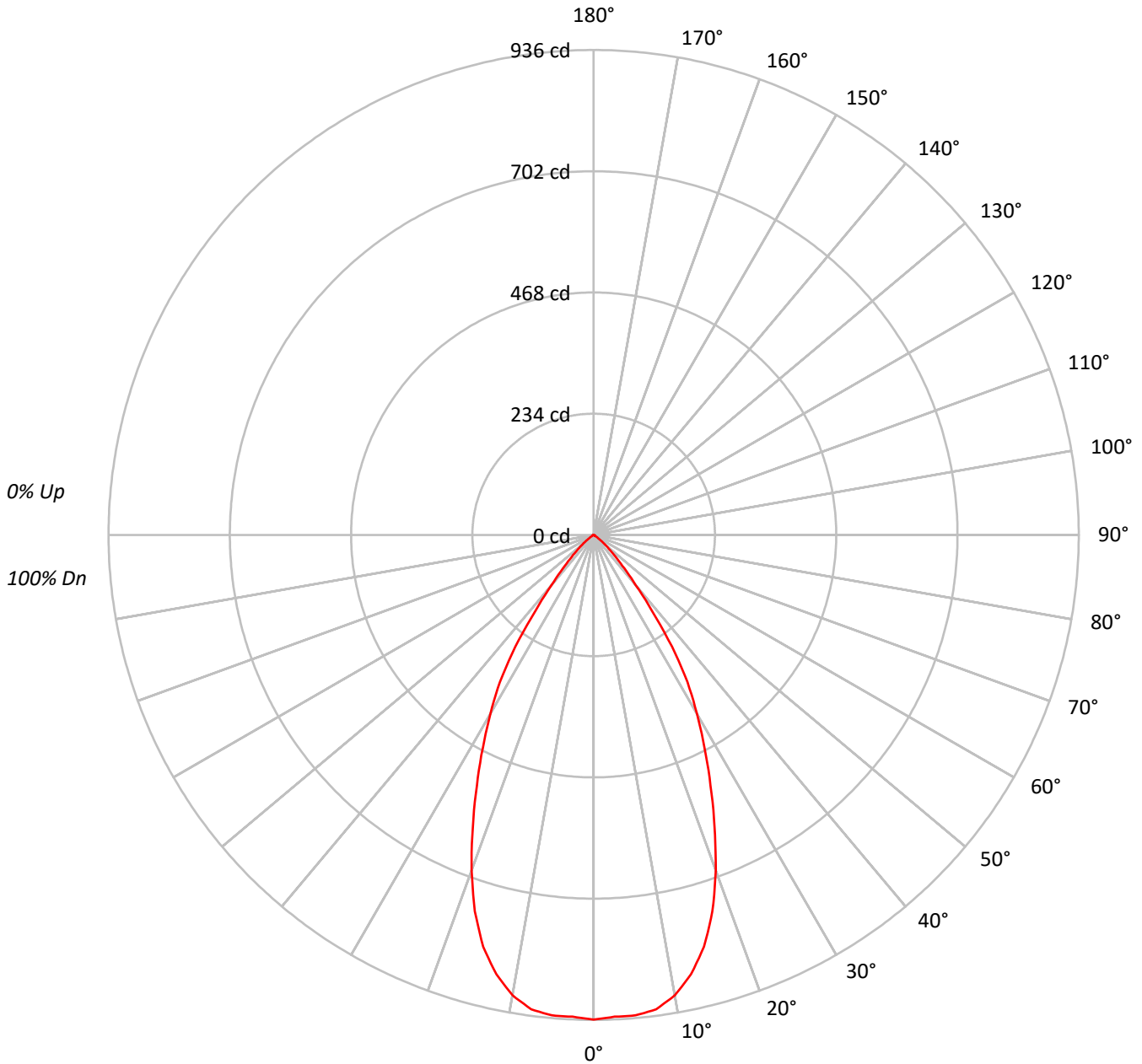
Lumens per Lamp: N/A
Luminaire Lumens: 783.6 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | |
| 1 | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 94 | | |
| 2 | 108 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 92 | 91 | 89 | 87 | | |
| 3 | 103 | 96 | 91 | 87 | 101 | 95 | 90 | 87 | 92 | 88 | 85 | 90 | 87 | 84 | 88 | 85 | 83 | 81 | | |
| 4 | 97 | 90 | 85 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 76 | | |
| 5 | 93 | 84 | 79 | 74 | 91 | 83 | 78 | 74 | 82 | 77 | 73 | 80 | 76 | 73 | 78 | 75 | 72 | 71 | | |
| 6 | 88 | 79 | 73 | 69 | 87 | 78 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 66 | | |
| 7 | 84 | 75 | 69 | 64 | 82 | 74 | 68 | 64 | 73 | 68 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 | | |
| 8 | 80 | 70 | 64 | 60 | 78 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 62 | 59 | 58 | | |
| 9 | 76 | 66 | 61 | 57 | 75 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 55 | | |
| 10 | 72 | 63 | 57 | 53 | 71 | 62 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 51 | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 115390 |
| 5° | 115249 |
| 10° | 112999 |
| 15° | 105069 |
| 20° | 90361 |
| 25° | 72594 |
| 30° | 56686 |
| 35° | 39692 |
| 40° | 20352 |
| 45° | 10344 |
| 50° | 5181 |
| 55° | 1935 |
| 60° | 789 |
| 65° | 642 |
| 70° | 361 |
| 75° | 286 |
| 80° | 426 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.0 | 11.2 |
| 10°-20° | 227.1 | 29.0 |
| 20°-30° | 244.7 | 31.2 |
| 30°-40° | 160.8 | 20.5 |
| 40°-50° | 50.0 | 6.4 |
| 50°-60° | 9.9 | 1.3 |
| 60°-70° | 2.1 | 0.3 |
| 70°-80° | 0.8 | 0.1 |
| 80°-90° | 0.2 | 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° | 559.8 | 71.4 |
| 0°-40° | 720.6 | 92.0 |
| 0°-60° | 780.4 | 99.6 |
| 0°-90° | 783.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 783.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 936 | |
| 5° | 931 | 88 |
| 15° | 823 | 227 |
| 25° | 533 | 245 |
| 35° | 264 | 161 |
| 45° | 59 | 50 |
| 55° | 9 | 10 |
| 65° | 2 | 2 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 935.5 |
| 2.5° | 930.8 |
| 5° | 930.8 |
| 7.5° | 923.4 |
| 10° | 902.2 |
| 12.5° | 868.3 |
| 15° | 822.8 |
| 17.5° | 762.0 |
| 20° | 688.4 |
| 22.5° | 609.1 |
| 25° | 533.4 |
| 27.5° | 463.1 |
| 30° | 398.0 |
| 32.5° | 336.5 |
| 35° | 263.6 |
| 37.5° | 183.6 |
| 40° | 126.4 |
| 42.5° | 87.3 |
| 45° | 59.3 |
| 47.5° | 40.2 |
| 50° | 27.0 |
| 52.5° | 17.0 |
| 55° | 9.0 |
| 57.5° | 3.8 |
| 60° | 3.2 |
| 62.5° | 2.6 |
| 65° | 2.2 |
| 67.5° | 1.6 |
| 70° | 1.0 |
| 72.5° | 1.0 |
| 75° | 0.6 |
| 77.5° | 0.6 |
| 80° | 0.6 |
| 82.5° | 0.6 |
| 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)