

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: P583793

Luminaire Tested: **HCC8S10D010MW-HM80520930-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S10D010MW-HM80520930-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

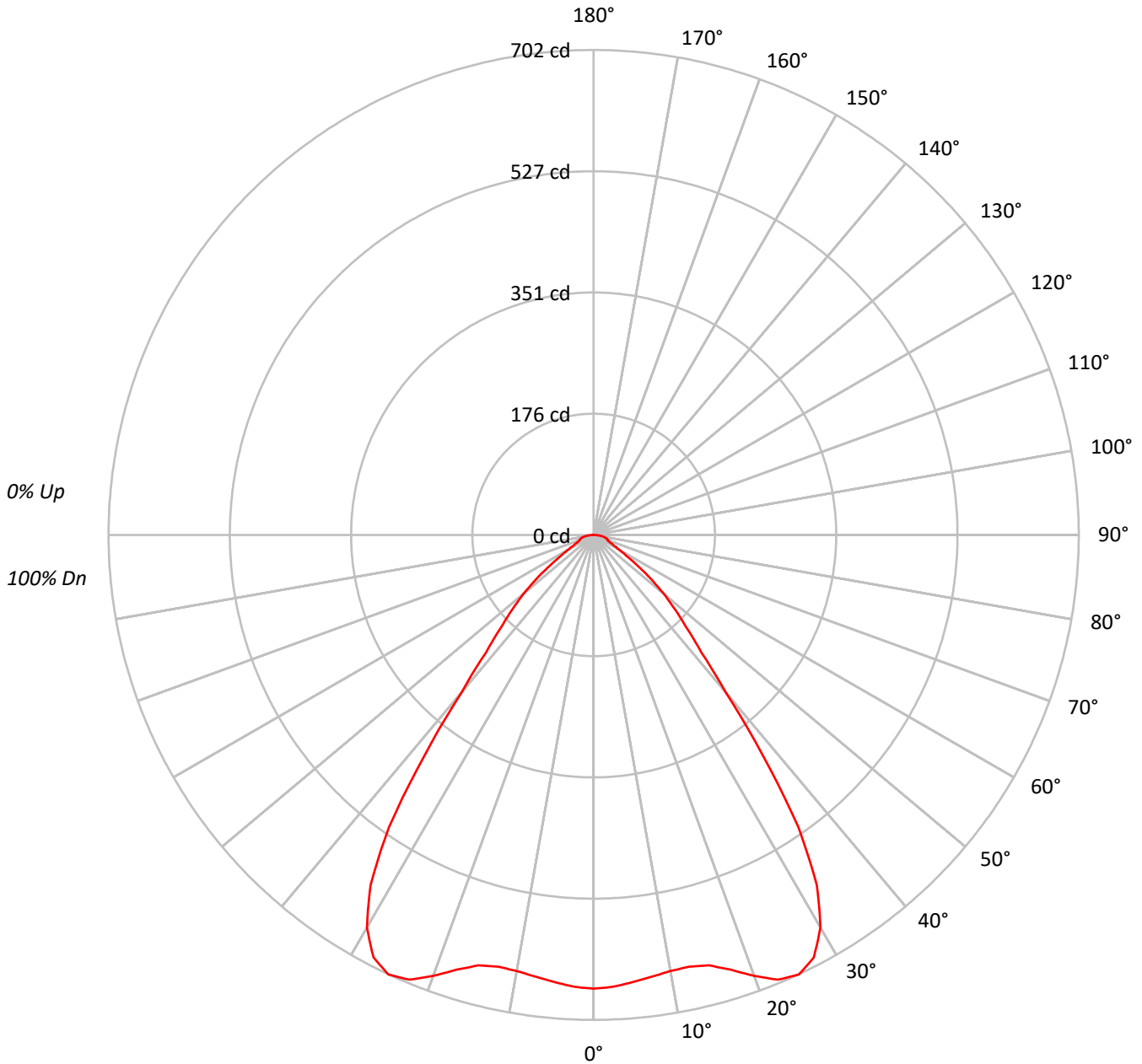
Lumens per Lamp: N/A
Luminaire Lumens: 1153.3 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 112 | 108 | 105 | 103 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 97 | 95 | 95 | 93 | 92 | 90 | | | | | | | | | | | | | | | | | | | |
| 2 | 105 | 99 | 94 | 89 | 102 | 97 | 92 | 88 | 93 | 90 | 86 | 90 | 87 | 84 | 88 | 85 | 83 | 81 | | | | | | | | | | | | | | | | | | | |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 77 | 74 | 73 | | | | | | | | | | | | | | | | | | | |
| 4 | 92 | 82 | 75 | 70 | 90 | 81 | 75 | 70 | 79 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 65 | | | | | | | | | | | | | | | | | | | |
| 5 | 86 | 75 | 68 | 63 | 84 | 74 | 68 | 63 | 73 | 67 | 62 | 71 | 66 | 62 | 69 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 6 | 80 | 69 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 56 | 54 | | | | | | | | | | | | | | | | | | | |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 57 | 52 | 62 | 56 | 51 | 61 | 55 | 51 | 59 | 55 | 51 | 49 | | | | | | | | | | | | | | | | | | | |
| 8 | 71 | 59 | 52 | 47 | 69 | 59 | 52 | 47 | 58 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 9 | 67 | 55 | 48 | 43 | 65 | 55 | 48 | 43 | 54 | 47 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 41 | | | | | | | | | | | | | | | | | | | |
| 10 | 63 | 51 | 45 | 40 | 62 | 51 | 44 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 48 | 43 | 40 | 38 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 20256 |
| 5° | 20114 |
| 10° | 20065 |
| 15° | 20591 |
| 20° | 22291 |
| 25° | 23895 |
| 30° | 23365 |
| 35° | 19451 |
| 40° | 11951 |
| 45° | 8277 |
| 50° | 6313 |
| 55° | 4140 |
| 60° | 2596 |
| 65° | 1941 |
| 70° | 1965 |
| 75° | 2252 |
| 80° | 2504 |
| 85° | 2229 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.7 | 5.4 |
| 10°-20° | 185.2 | 16.1 |
| 20°-30° | 318.7 | 27.6 |
| 30°-40° | 308.8 | 26.8 |
| 40°-50° | 152.1 | 13.2 |
| 50°-60° | 71.8 | 6.2 |
| 60°-70° | 28.3 | 2.5 |
| 70°-80° | 19.5 | 1.7 |
| 80°-90° | 7.2 | 0.6 |
| 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° | 565.6 | 49.0 |
| 0°-40° | 874.4 | 75.8 |
| 0°-60° | 1098.2 | 95.2 |
| 0°-90° | 1153.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1153.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 657 | |
| 5° | 650 | 62 |
| 15° | 645 | 185 |
| 25° | 702 | 319 |
| 35° | 517 | 309 |
| 45° | 190 | 152 |
| 55° | 77 | 72 |
| 65° | 27 | 28 |
| 75° | 19 | 20 |
| 85° | 6 | 7 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 656.9 |
| 2.5° | 654.7 |
| 5° | 649.8 |
| 7.5° | 645.0 |
| 10° | 640.8 |
| 12.5° | 640.1 |
| 15° | 645.0 |
| 17.5° | 659.7 |
| 20° | 679.3 |
| 22.5° | 696.8 |
| 25° | 702.3 |
| 27.5° | 689.7 |
| 30° | 656.2 |
| 32.5° | 600.9 |
| 35° | 516.7 |
| 37.5° | 401.2 |
| 40° | 296.9 |
| 42.5° | 230.4 |
| 45° | 189.8 |
| 47.5° | 159.6 |
| 50° | 131.6 |
| 52.5° | 103.6 |
| 55° | 77.0 |
| 57.5° | 56.0 |
| 60° | 42.1 |
| 62.5° | 32.9 |
| 65° | 26.6 |
| 67.5° | 23.1 |
| 70° | 21.8 |
| 72.5° | 20.3 |
| 75° | 18.9 |
| 77.5° | 16.8 |
| 80° | 14.1 |
| 82.5° | 10.5 |
| 85° | 6.3 |
| 87.5° | 2.8 |
| 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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