

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: P582644

Luminaire Tested: **HCC6W45D010MW-HM64560927-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W45D010MW-HM64560927-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

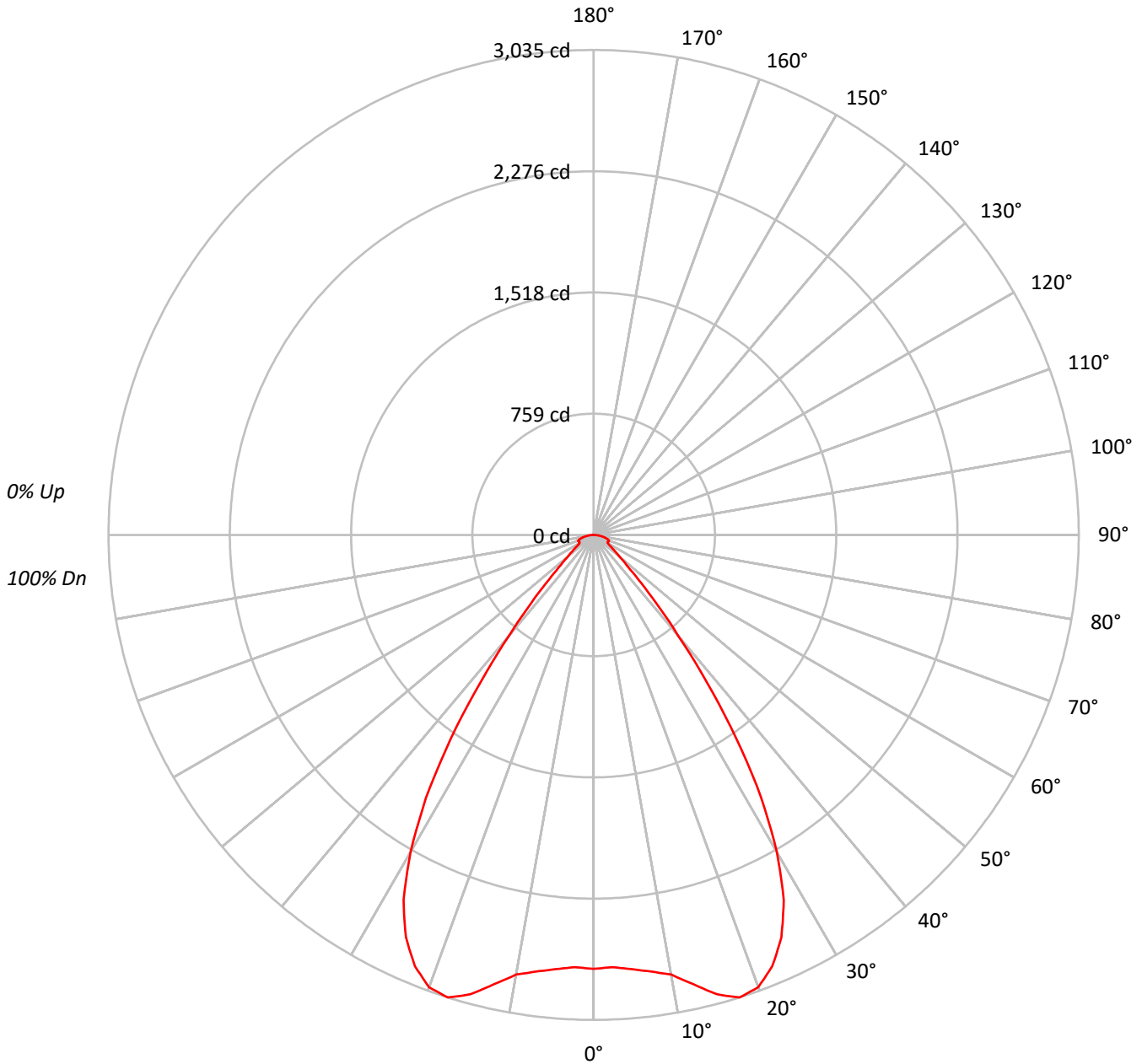
Lumens per Lamp: N/A
Luminaire Lumens: 3990.8 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | |
| 1 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 91 | | |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 82 | | |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 75 | | |
| 4 | 93 | 85 | 78 | 73 | 91 | 83 | 78 | 73 | 81 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 70 | 69 | | |
| 5 | 88 | 78 | 72 | 67 | 86 | 77 | 71 | 66 | 75 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | 63 | | |
| 6 | 83 | 73 | 66 | 61 | 81 | 72 | 66 | 61 | 70 | 65 | 60 | 69 | 64 | 60 | 67 | 63 | 60 | 58 | | |
| 7 | 78 | 68 | 61 | 56 | 77 | 67 | 61 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 63 | 59 | 55 | 54 | | |
| 8 | 74 | 63 | 57 | 52 | 73 | 63 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 51 | 59 | 55 | 51 | 50 | | |
| 9 | 70 | 59 | 53 | 48 | 69 | 59 | 52 | 48 | 58 | 52 | 48 | 57 | 51 | 48 | 56 | 51 | 48 | 46 | | |
| 10 | 66 | 56 | 49 | 45 | 65 | 55 | 49 | 45 | 54 | 48 | 45 | 53 | 48 | 44 | 53 | 48 | 44 | 43 | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 148842 |
| 5° | 150110 |
| 10° | 155525 |
| 15° | 168928 |
| 20° | 175715 |
| 25° | 168070 |
| 30° | 145041 |
| 35° | 104440 |
| 40° | 58839 |
| 45° | 30492 |
| 50° | 18174 |
| 55° | 13094 |
| 60° | 11128 |
| 65° | 12842 |
| 70° | 16269 |
| 75° | 17199 |
| 80° | 16827 |
| 85° | 15913 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 262.5 | 6.6 |
| 10°-20° | 839.5 | 21.0 |
| 20°-30° | 1254.8 | 31.4 |
| 30°-40° | 959.2 | 24.0 |
| 40°-50° | 335.0 | 8.4 |
| 50°-60° | 127.7 | 3.2 |
| 60°-70° | 100.2 | 2.5 |
| 70°-80° | 84.7 | 2.1 |
| 80°-90° | 27.2 | 0.7 |
| 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° | 2356.8 | 59.1 |
| 0°-40° | 3316.0 | 83.1 |
| 0°-60° | 3778.7 | 94.7 |
| 0°-90° | 3990.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3990.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2715 | |
| 5° | 2728 | 262 |
| 15° | 2976 | 840 |
| 25° | 2779 | 1255 |
| 35° | 1561 | 959 |
| 45° | 393 | 335 |
| 55° | 137 | 128 |
| 65° | 99 | 100 |
| 75° | 81 | 85 |
| 85° | 25 | 27 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2715.1 |
| 2.5° | 2707.5 |
| 5° | 2727.8 |
| 7.5° | 2755.7 |
| 10° | 2793.9 |
| 12.5° | 2880.1 |
| 15° | 2976.5 |
| 17.5° | 3034.9 |
| 20° | 3012.0 |
| 22.5° | 2920.7 |
| 25° | 2778.6 |
| 27.5° | 2575.6 |
| 30° | 2291.3 |
| 32.5° | 1951.3 |
| 35° | 1560.6 |
| 37.5° | 1157.0 |
| 40° | 822.2 |
| 42.5° | 576.1 |
| 45° | 393.3 |
| 47.5° | 276.6 |
| 50° | 213.1 |
| 52.5° | 167.5 |
| 55° | 137.0 |
| 57.5° | 111.7 |
| 60° | 101.5 |
| 62.5° | 99.0 |
| 65° | 99.0 |
| 67.5° | 104.0 |
| 70° | 101.5 |
| 72.5° | 93.8 |
| 75° | 81.2 |
| 77.5° | 68.5 |
| 80° | 53.3 |
| 82.5° | 38.0 |
| 85° | 25.3 |
| 87.5° | 10.2 |
| 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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(END OF REPORT)