

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: P583463

Luminaire Tested: **HC805D010-HM80520835-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC805D010-HM80520835-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 729.8 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

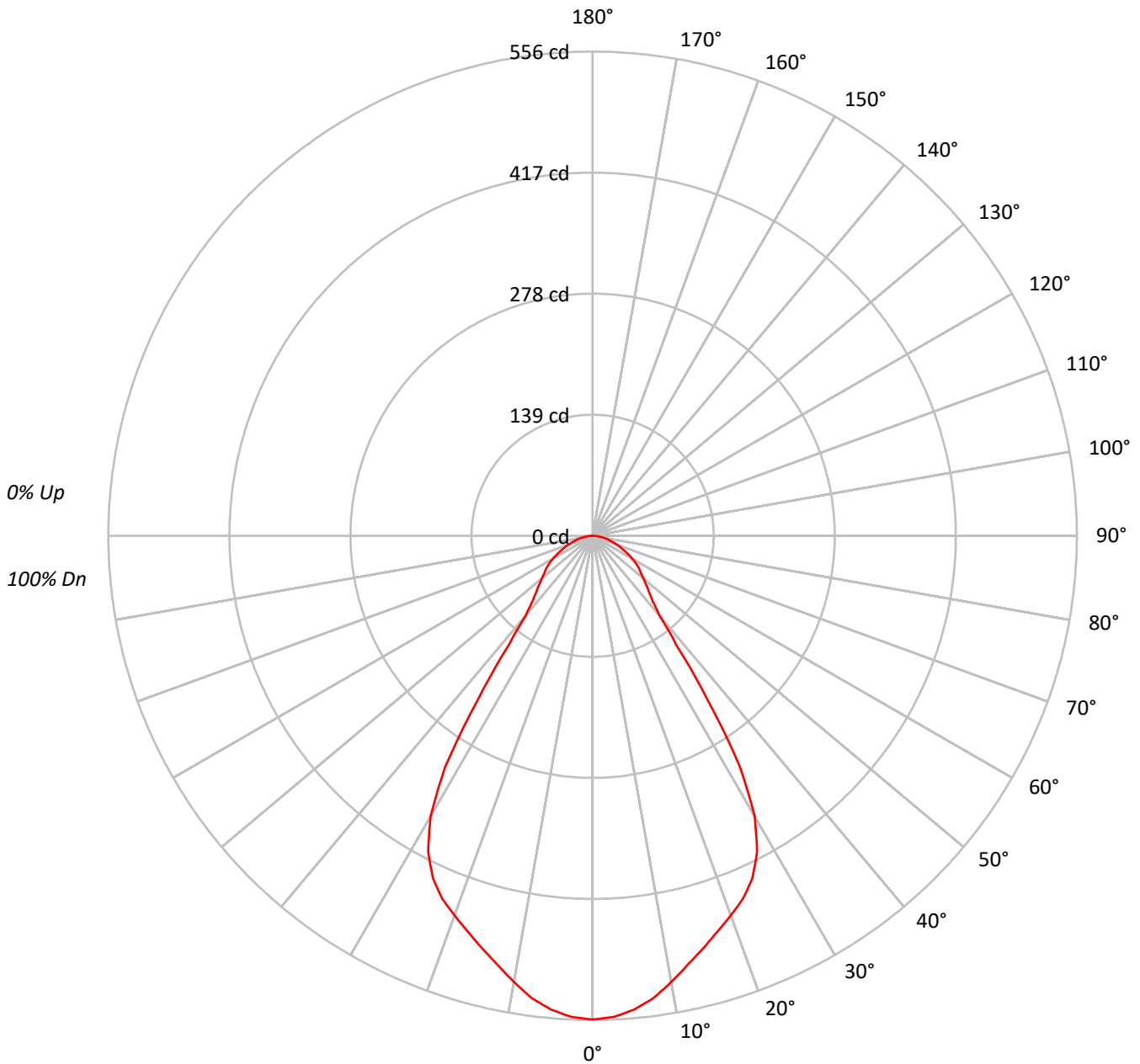
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 | | | |
| 2 | 104 | 98 | 92 | 88 | 102 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 84 | 81 | 79 | | | |
| 3 | 97 | 89 | 83 | 77 | 95 | 87 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 74 | 80 | 76 | 73 | 71 | | | |
| 4 | 91 | 81 | 74 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 64 | | | |
| 5 | 85 | 75 | 68 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 61 | 68 | 64 | 60 | 58 | | | |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 61 | 56 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 53 | | | |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 57 | 52 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 52 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 | | | |
| 9 | 67 | 56 | 49 | 44 | 66 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 52 | 47 | 44 | 42 | | | |
| 10 | 64 | 52 | 46 | 41 | 62 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 49 | 44 | 41 | 39 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 17130 |
| 5° | 16907 |
| 10° | 16289 |
| 15° | 15652 |
| 20° | 15220 |
| 25° | 14763 |
| 30° | 13246 |
| 35° | 8685 |
| 40° | 4798 |
| 45° | 4003 |
| 50° | 3651 |
| 55° | 3484 |
| 60° | 3238 |
| 65° | 2933 |
| 70° | 2651 |
| 75° | 2395 |
| 80° | 2184 |
| 85° | 2087 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.3 | 7.0 |
| 10°-20° | 138.3 | 19.0 |
| 20°-30° | 196.9 | 27.0 |
| 30°-40° | 145.7 | 20.0 |
| 40°-50° | 72.2 | 9.9 |
| 50°-60° | 57.6 | 7.9 |
| 60°-70° | 40.0 | 5.5 |
| 70°-80° | 21.5 | 2.9 |
| 80°-90° | 6.4 | 0.9 |
| 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° | 386.5 | 53.0 |
| 0°-40° | 532.2 | 72.9 |
| 0°-60° | 661.9 | 90.7 |
| 0°-90° | 729.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 729.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 556 | |
| 5° | 546 | 51 |
| 15° | 490 | 138 |
| 25° | 434 | 197 |
| 35° | 231 | 146 |
| 45° | 92 | 72 |
| 55° | 65 | 58 |
| 65° | 40 | 40 |
| 75° | 20 | 22 |
| 85° | 6 | 6 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 555.5 |
| 2.5° | 553.1 |
| 5° | 546.2 |
| 7.5° | 535.4 |
| 10° | 520.2 |
| 12.5° | 504.5 |
| 15° | 490.3 |
| 17.5° | 476.5 |
| 20° | 463.8 |
| 22.5° | 451.0 |
| 25° | 433.9 |
| 27.5° | 408.8 |
| 30° | 372.0 |
| 32.5° | 315.5 |
| 35° | 230.7 |
| 37.5° | 157.5 |
| 40° | 119.2 |
| 42.5° | 102.1 |
| 45° | 91.8 |
| 47.5° | 83.4 |
| 50° | 76.1 |
| 52.5° | 69.7 |
| 55° | 64.8 |
| 57.5° | 58.9 |
| 60° | 52.5 |
| 62.5° | 46.1 |
| 65° | 40.2 |
| 67.5° | 34.4 |
| 70° | 29.4 |
| 72.5° | 24.5 |
| 75° | 20.1 |
| 77.5° | 16.2 |
| 80° | 12.3 |
| 82.5° | 8.9 |
| 85° | 5.9 |
| 87.5° | 2.5 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)