

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: P593383

Luminaire Tested: **HC655D010-HM64560850-61NDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560850-61NDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6052.9 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

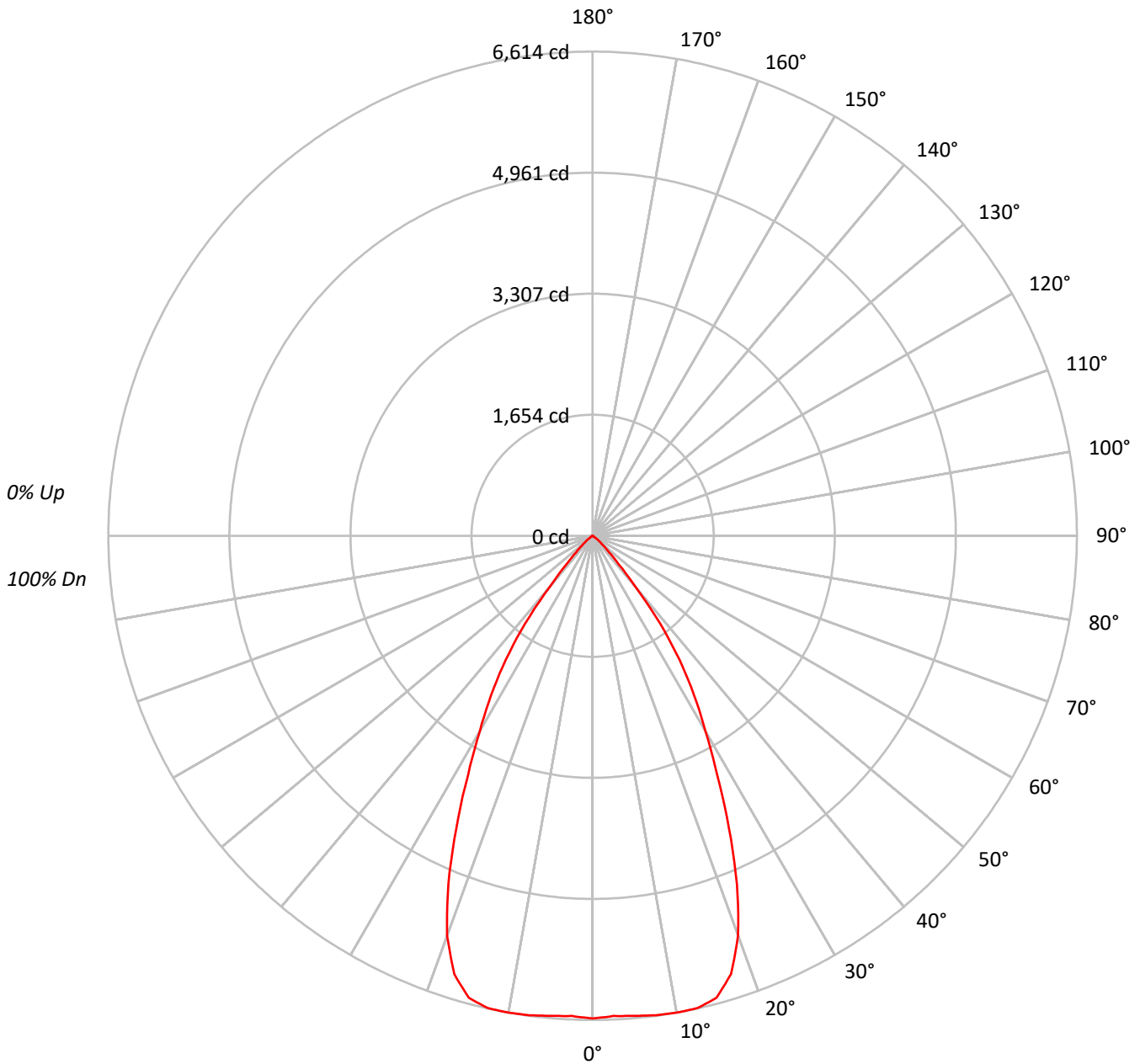
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593383

CATALOG NUMBER: HC655D010-HM64560850-61NDC

Luminous Intensity Polar Plot





TEST NUMBER: P593383

CATALOG NUMBER: HC655D010-HM64560850-61NDC

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 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98 | 98 | 97 | 96 | 94 | | |
| 2 | 108 | 103 | 99 | 96 | 106 | 102 | 98 | 95 | 98 | 96 | 93 | 96 | 93 | 91 | 93 | 91 | 89 | 87 | | |
| 3 | 103 | 97 | 92 | 88 | 101 | 95 | 91 | 87 | 93 | 89 | 86 | 90 | 87 | 84 | 88 | 85 | 83 | 82 | | |
| 4 | 98 | 90 | 85 | 81 | 96 | 89 | 84 | 80 | 87 | 83 | 79 | 85 | 81 | 79 | 83 | 80 | 78 | 76 | | |
| 5 | 93 | 85 | 79 | 75 | 91 | 84 | 79 | 75 | 82 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 73 | 71 | | |
| 6 | 88 | 80 | 74 | 70 | 87 | 79 | 73 | 69 | 77 | 73 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 67 | | |
| 7 | 84 | 75 | 69 | 65 | 83 | 74 | 69 | 65 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 62 | | |
| 8 | 80 | 71 | 65 | 61 | 79 | 70 | 65 | 61 | 69 | 64 | 60 | 68 | 64 | 60 | 67 | 63 | 60 | 59 | | |
| 9 | 76 | 67 | 61 | 57 | 75 | 66 | 61 | 57 | 65 | 60 | 57 | 65 | 60 | 57 | 64 | 60 | 56 | 55 | | |
| 10 | 73 | 63 | 58 | 54 | 72 | 63 | 57 | 54 | 62 | 57 | 54 | 61 | 57 | 53 | 61 | 56 | 53 | 52 | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 361479 |
| 5° | 362210 |
| 10° | 368163 |
| 15° | 370848 |
| 20° | 339004 |
| 25° | 266386 |
| 30° | 194992 |
| 35° | 138317 |
| 40° | 65423 |
| 45° | 24956 |
| 50° | 11189 |
| 55° | 3039 |
| 60° | 1305 |
| 65° | 1025 |
| 70° | 641 |
| 75° | 847 |
| 80° | 0 |
| 85° | 0 |



TEST NUMBER: P593383

CATALOG NUMBER: HC655D010-HM64560850-61NDC

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 629.7 | 10.4 |
| 10°-20° | 1806.0 | 29.8 |
| 20°-30° | 2008.9 | 33.2 |
| 30°-40° | 1255.0 | 20.7 |
| 40°-50° | 298.2 | 4.9 |
| 50°-60° | 42.6 | 0.7 |
| 60°-70° | 8.8 | 0.1 |
| 70°-80° | 3.7 | 0.1 |
| 80°-90° | 0.0 | 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° | 4444.6 | 73.4 |
| 0°-40° | 5699.6 | 94.2 |
| 0°-60° | 6040.4 | 99.8 |
| 0°-90° | 6052.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6052.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 6594 | |
| 5° | 6582 | 630 |
| 15° | 6534 | 1806 |
| 25° | 4404 | 2009 |
| 35° | 2067 | 1255 |
| 45° | 322 | 298 |
| 55° | 32 | 43 |
| 65° | 8 | 9 |
| 75° | 4 | 4 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: P593383

CATALOG NUMBER: HC655D010-HM64560850-61NDC

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 6593.9 |
| 2.5° | 6566.1 |
| 5° | 6582.1 |
| 7.5° | 6605.9 |
| 10° | 6613.8 |
| 12.5° | 6609.9 |
| 15° | 6534.3 |
| 17.5° | 6280.0 |
| 20° | 5811.0 |
| 22.5° | 5151.1 |
| 25° | 4404.0 |
| 27.5° | 3688.5 |
| 30° | 3080.4 |
| 32.5° | 2575.6 |
| 35° | 2066.8 |
| 37.5° | 1518.4 |
| 40° | 914.2 |
| 42.5° | 528.7 |
| 45° | 321.9 |
| 47.5° | 206.7 |
| 50° | 131.2 |
| 52.5° | 75.5 |
| 55° | 31.8 |
| 57.5° | 15.9 |
| 60° | 11.9 |
| 62.5° | 11.9 |
| 65° | 7.9 |
| 67.5° | 7.9 |
| 70° | 4.0 |
| 72.5° | 4.0 |
| 75° | 4.0 |
| 77.5° | 4.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)