

Report No.: 40090

Test Time: 2022-11-14 14:22

## Luminaire Property

Luminaire Manufacturer: FARO BARCELONA  
 Luminaire Category: MOY 4W 3000K  
 Lamp Catalog: INDOOR\_SURFACE  
 Number of Lamps: 1  
 Luminous Length (mm): 140  
 Luminous Height (mm): 130  
 Current: 0.043 A  
 Power Factor: 0.409

Luminaire Description: 40090  
 Lamp Description: SMD\_LED  
 Lumens per Lamp:  
 Luminous Width (mm): 140  
 Voltage: 230.4 V  
 Power: 4.05 W

## Photometric Results

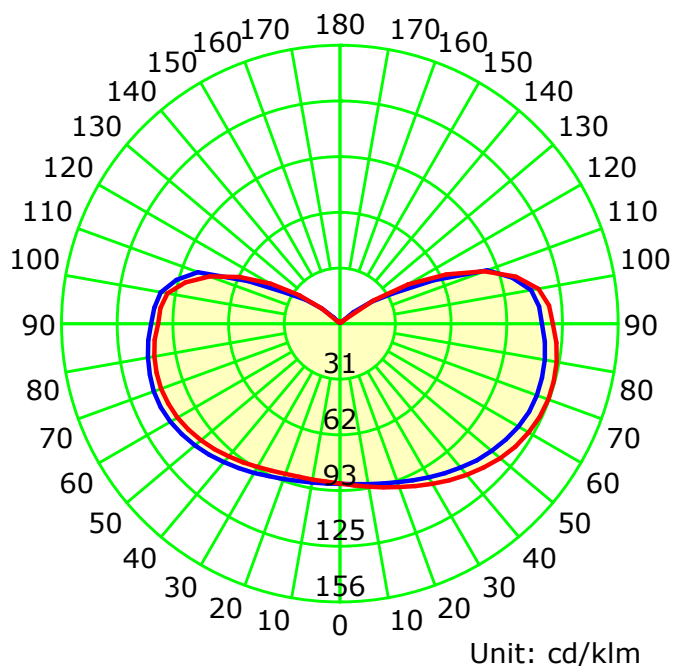
CIE Class: Semi-Direct  
 Measurement Flux: 263.4 lm  
 Downward Ratio: 68%  
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 260.3, 258.2, 258.0, 257.5  
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 229.5, 230.8, 230.6, 231.6  
 Luminaire Efficacy Rating (LER): 65.09  
 Max. Intensity: 125.28 cd/klm  
 S/MH(C0/C180): 1.73

Total Rated Lamp Lumens: 263.4 lm  
 Efficiency: 100%  
 Upward Ratio: 32%  
 C0r0 Intensity: 90.12 cd/klm  
 Pos of Max. Intensity: H75 V70  
 S/MH(C90/C270): 1.74

Picture Of Luminaire



Luminous Intensity Distribution Curve

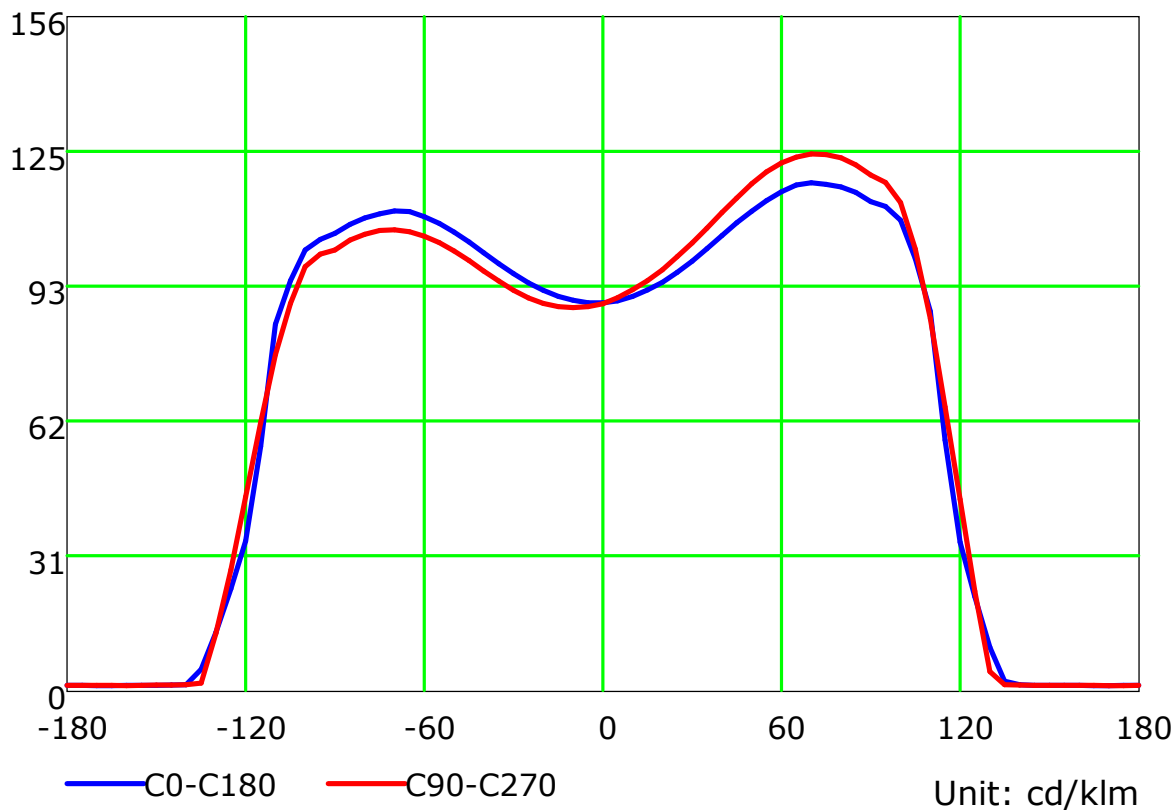
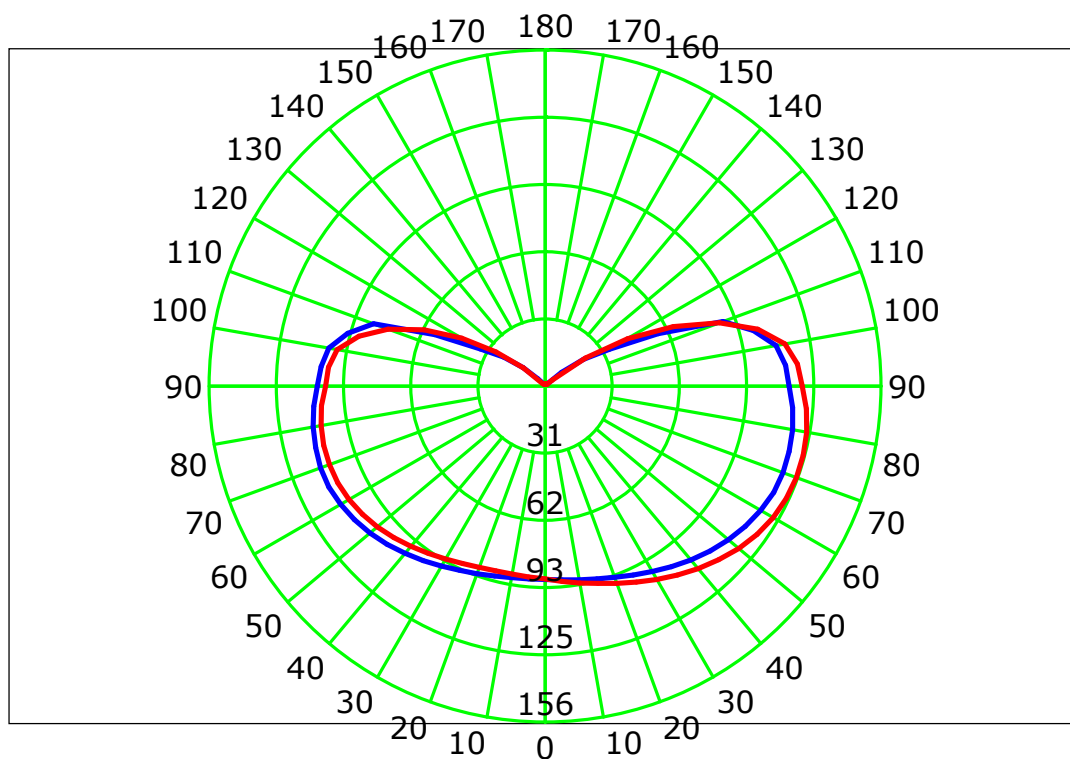


— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 15.0  
 Test Lab: FARO LAB  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Sergio Feria

Gamma Plane (°):0.0-180.0:5.0  
 Test Device: GPM-1600L  
 Distance: 8.826 m [K=1.0000]  
 Humidity: 60%  
 Inspector:

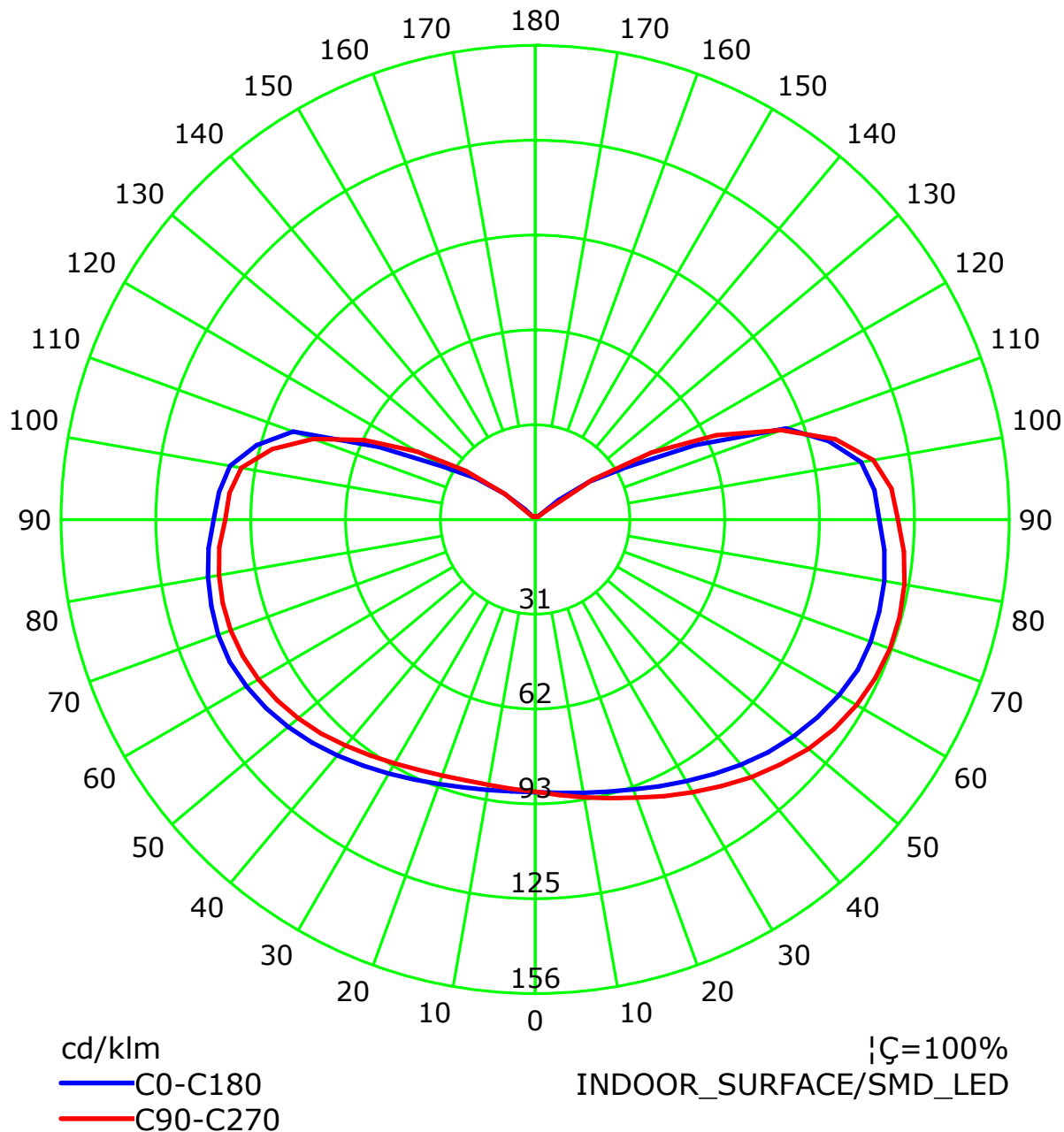
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 15.0  
Test Lab: FARO LAB  
Test Type: TYPE C  
Temperature: 25  
Operator: Sergio Feria

Gamma Plane (°):0.0-180.0:5.0  
Test Device: GPM-1600L  
Distance: 8.826 m [K=1.0000]  
Humidity: 60%  
Inspector:

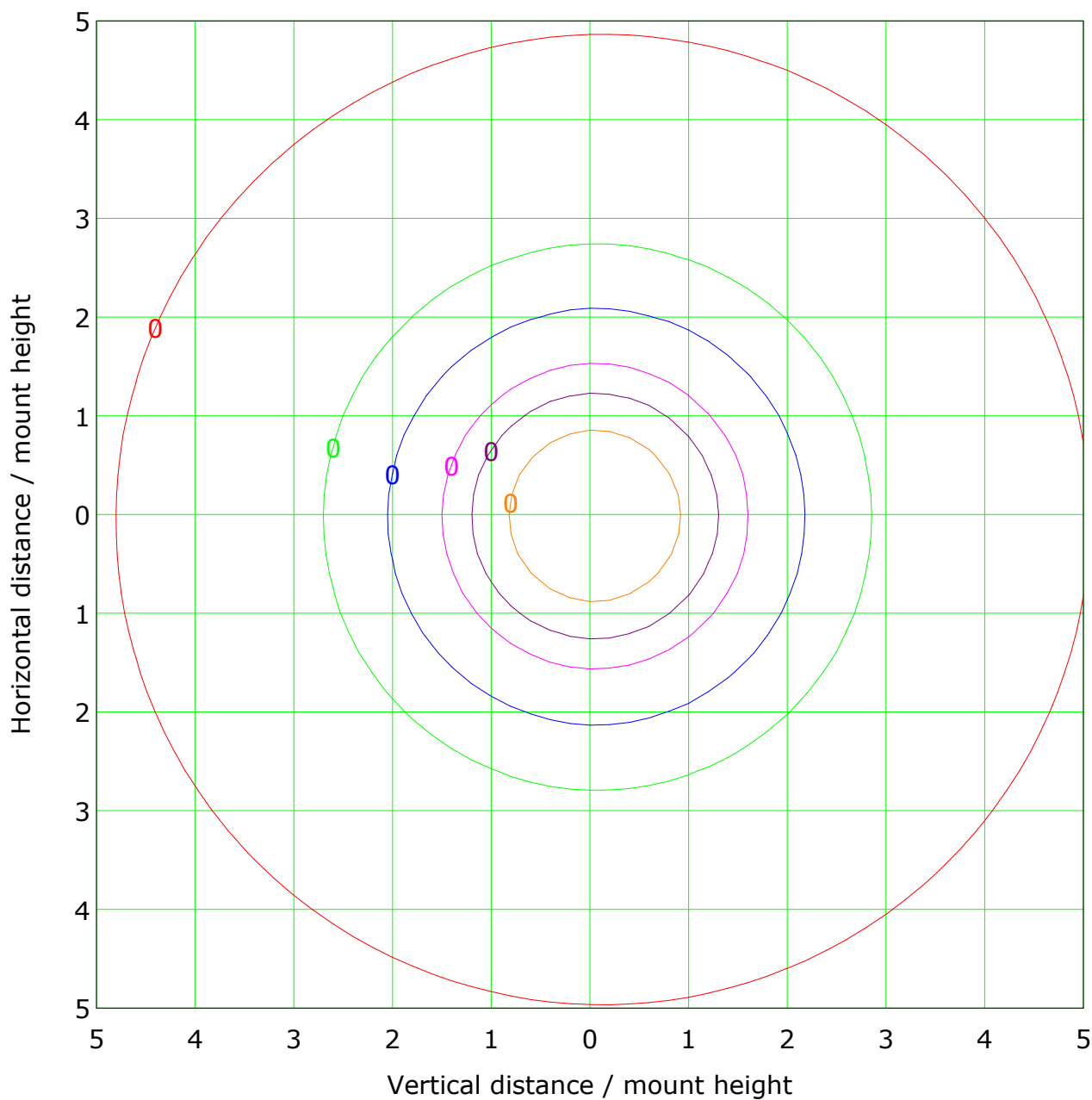
## Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 15.0  
Test Lab: FARO LAB  
Test Type: TYPE C  
Temperature: 25  
Operator: Sergio Feria

Gamma Plane (°):0.0-180.0:5.0  
Test Device: GPM-1600L  
Distance: 8.826 m [K=1.0000]  
Humidity: 60%  
Inspector:

## IsoLux Plot

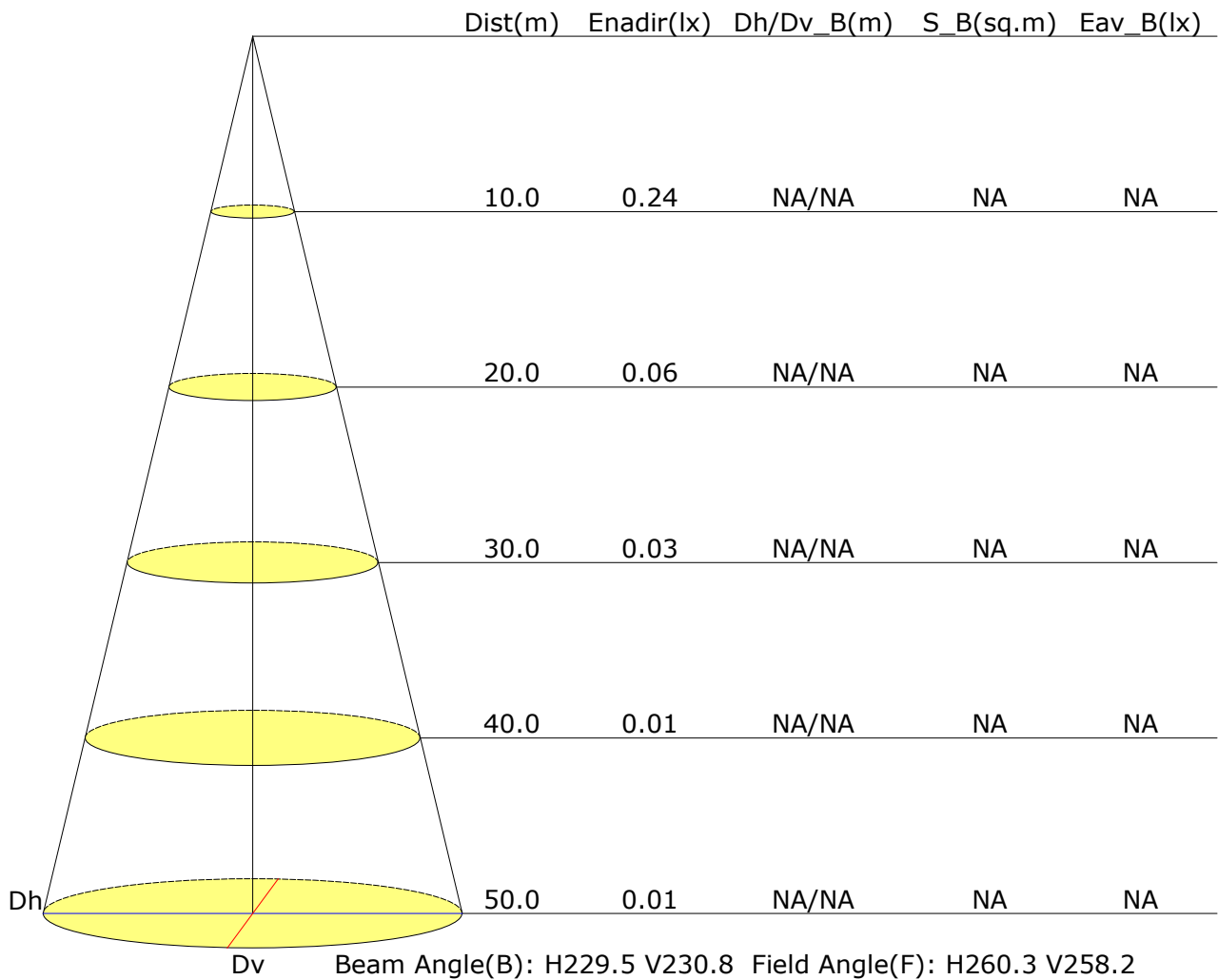


|                                                 |                |
|-------------------------------------------------|----------------|
| Mounting Height: 10.0m    Max Lux(100%): 0.2 lx |                |
| ( 1%): 0.0 lx                                   | ( 5%): 0.0 lx  |
| ( 10%): 0.0 lx                                  | ( 20%): 0.0 lx |
| ( 30%): 0.1 lx                                  | ( 50%): 0.1 lx |
| (100%): 0.2 lx                                  | (200%): 0.5 lx |
| (300%): 0.7 lx                                  | (500%): 1.2 lx |

C Plane (°):0.0-360.0: 15.0  
Test Lab: FARO LAB  
Test Type: TYPE C  
Temperature: 25  
Operator: Sergio Feria

Gamma Plane (°):0.0-180.0:5.0  
Test Device: GPM-1600L  
Distance: 8.826 m [K=1.0000]  
Humidity: 60%  
Inspector:

## Illuminance at a Distance



## Candlepower Table

Unit: cd/klm

| G\C    | C0.0  | C15.0 | C30.0 | C45.0 | C60.0 | C75.0 | C90.0 | C105.0 | C120.0 | C135.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| G0.0   | 90.1  | 90.0  | 89.9  | 90.0  | 89.9  | 89.9  | 89.9  | 89.9   | 89.9   | 89.9   |
| G5.0   | 90.6  | 90.8  | 91.0  | 91.2  | 91.3  | 91.3  | 91.3  | 91.2   | 91.1   | 90.9   |
| G10.0  | 91.6  | 92.2  | 92.5  | 92.9  | 93.1  | 93.2  | 93.2  | 93.0   | 92.7   | 92.2   |
| G15.0  | 93.1  | 93.8  | 94.4  | 94.9  | 95.2  | 95.3  | 95.2  | 95.1   | 94.6   | 93.9   |
| G20.0  | 94.9  | 95.9  | 96.7  | 97.4  | 97.8  | 98.0  | 97.8  | 97.5   | 96.9   | 96.0   |
| G25.0  | 97.2  | 98.4  | 99.3  | 100.3 | 100.7 | 100.9 | 100.8 | 100.4  | 99.6   | 98.5   |
| G30.0  | 99.8  | 101.2 | 102.3 | 103.4 | 103.9 | 104.2 | 104.1 | 103.6  | 102.6  | 101.4  |
| G35.0  | 102.7 | 104.3 | 105.6 | 106.7 | 107.5 | 107.7 | 107.5 | 106.9  | 105.8  | 104.4  |
| G40.0  | 105.7 | 107.4 | 108.9 | 110.2 | 111.0 | 111.3 | 111.1 | 110.3  | 109.1  | 107.5  |
| G45.0  | 108.7 | 110.5 | 112.1 | 113.5 | 114.4 | 114.7 | 114.5 | 113.6  | 112.2  | 110.5  |
| G50.0  | 111.4 | 113.4 | 115.1 | 116.7 | 117.7 | 118.1 | 117.8 | 116.9  | 115.3  | 113.3  |
| G55.0  | 113.9 | 115.9 | 117.8 | 119.5 | 120.5 | 120.9 | 120.6 | 119.5  | 117.8  | 115.7  |
| G60.0  | 115.9 | 117.8 | 119.8 | 121.6 | 122.8 | 123.1 | 122.6 | 121.6  | 119.9  | 117.6  |
| G65.0  | 117.5 | 119.2 | 121.3 | 123.2 | 124.3 | 124.6 | 124.0 | 122.9  | 121.2  | 118.7  |
| G70.0  | 118.0 | 119.9 | 122.0 | 124.0 | 125.2 | 125.3 | 124.7 | 123.5  | 121.8  | 119.3  |
| G75.0  | 117.7 | 119.9 | 122.1 | 124.1 | 125.2 | 125.3 | 124.6 | 123.4  | 121.7  | 119.1  |
| G80.0  | 117.1 | 119.3 | 121.5 | 123.3 | 124.4 | 124.5 | 123.8 | 122.5  | 120.7  | 118.1  |
| G85.0  | 115.8 | 118.0 | 120.1 | 121.8 | 122.8 | 122.9 | 122.2 | 120.8  | 118.9  | 116.4  |
| G90.0  | 113.7 | 115.9 | 117.8 | 119.4 | 120.3 | 120.5 | 119.8 | 118.4  | 116.4  | 113.9  |
| G95.0  | 112.5 | 114.5 | 116.2 | 117.6 | 118.6 | 118.7 | 118.1 | 116.7  | 114.8  | 112.3  |
| G100.0 | 109.3 | 111.5 | 113.1 | 113.3 | 114.1 | 114.6 | 113.4 | 112.4  | 110.4  | 107.9  |
| G105.0 | 100.4 | 102.6 | 103.1 | 102.9 | 103.2 | 103.7 | 102.6 | 101.8  | 99.7   | 97.9   |
| G110.0 | 88.1  | 90.0  | 88.8  | 88.3  | 87.2  | 87.6  | 86.5  | 85.6   | 83.6   | 83.2   |
| G115.0 | 58.2  | 73.7  | 71.2  | 69.5  | 67.3  | 67.5  | 65.9  | 65.7   | 63.9   | 64.4   |
| G120.0 | 34.5  | 55.2  | 52.3  | 49.0  | 46.0  | 46.5  | 44.4  | 44.9   | 43.2   | 44.5   |
| G125.0 | 21.9  | 36.7  | 34.3  | 28.4  | 26.0  | 26.6  | 23.1  | 25.4   | 24.0   | 24.6   |
| G130.0 | 10.1  | 20.0  | 18.9  | 9.9   | 11.4  | 10.5  | 4.4   | 9.8    | 10.1   | 7.6    |
| G135.0 | 2.2   | 7.6   | 8.4   | 2.2   | 2.5   | 3.0   | 1.4   | 2.8    | 1.7    | 1.5    |
| G140.0 | 1.4   | 2.2   | 2.2   | 1.4   | 1.3   | 1.3   | 1.3   | 1.4    | 1.3    | 1.3    |
| G145.0 | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.2   | 1.3    | 1.3    | 1.3    |
| G150.0 | 1.3   | 1.3   | 1.2   | 1.3   | 1.3   | 1.2   | 1.2   | 1.3    | 1.2    | 1.3    |
| G155.0 | 1.2   | 1.3   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.3    | 1.2    | 1.2    |
| G160.0 | 1.2   | 1.2   | 1.1   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2    | 1.2    | 1.2    |
| G165.0 | 1.2   | 1.3   | 1.1   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2    | 1.1    | 1.2    |
| G170.0 | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2    | 1.2    | 1.2    |
| G175.0 | 1.2   | 1.3   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2    | 1.2    | 1.2    |
| G180.0 | 1.2   | 1.3   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2    | 1.2    | 1.2    |

C Plane (°):0.0-360.0: 15.0  
Test Lab: FARO LAB  
Test Type: TYPE C  
Temperature: 25  
Operator: Sergio Feria

Gamma Plane (°):0.0-180.0:5.0  
Test Device: GPM-1600L  
Distance: 8.826 m [K=1.0000]  
Humidity: 60%  
Inspector:

## Candlepower Table (Continue 1)

Unit: cd/klm

| G\C    | C150.0 | C165.0 | C180.0 | C195.0 | C210.0 | C225.0 | C240.0 | C255.0 | C270.0 | C285.0 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| G0.0   | 90.0   | 89.9   | 90.1   | 90.0   | 89.9   | 90.0   | 89.9   | 89.9   | 89.9   | 89.9   |
| G5.0   | 90.6   | 90.4   | 90.2   | 89.9   | 89.6   | 89.4   | 89.3   | 89.2   | 89.2   | 89.3   |
| G10.0  | 91.7   | 91.1   | 90.7   | 90.2   | 89.7   | 89.2   | 89.0   | 88.9   | 89.0   | 89.2   |
| G15.0  | 93.2   | 92.3   | 91.6   | 90.8   | 90.1   | 89.6   | 89.2   | 89.1   | 89.2   | 89.5   |
| G20.0  | 95.1   | 93.9   | 93.0   | 91.9   | 91.0   | 90.3   | 90.0   | 89.8   | 90.0   | 90.4   |
| G25.0  | 97.3   | 95.9   | 94.7   | 93.5   | 92.4   | 91.6   | 91.1   | 91.1   | 91.3   | 91.8   |
| G30.0  | 99.8   | 98.2   | 96.9   | 95.4   | 94.2   | 93.3   | 92.9   | 92.8   | 93.0   | 93.7   |
| G35.0  | 102.6  | 100.7  | 99.2   | 97.6   | 96.3   | 95.5   | 95.0   | 94.9   | 95.2   | 95.8   |
| G40.0  | 105.5  | 103.4  | 101.7  | 100.1  | 98.6   | 97.8   | 97.4   | 97.2   | 97.5   | 98.3   |
| G45.0  | 108.3  | 106.0  | 104.3  | 102.4  | 101.1  | 100.2  | 99.7   | 99.6   | 100.0  | 100.8  |
| G50.0  | 110.9  | 108.5  | 106.6  | 104.6  | 103.1  | 102.4  | 101.9  | 101.7  | 102.2  | 103.1  |
| G55.0  | 113.2  | 110.5  | 108.6  | 106.4  | 105.0  | 104.2  | 103.8  | 103.7  | 104.1  | 105.1  |
| G60.0  | 114.8  | 112.0  | 110.2  | 107.9  | 106.4  | 105.7  | 105.3  | 105.2  | 105.6  | 106.7  |
| G65.0  | 116.0  | 113.0  | 111.3  | 108.7  | 107.4  | 106.7  | 106.3  | 106.3  | 106.6  | 107.8  |
| G70.0  | 116.4  | 113.4  | 111.5  | 109.1  | 107.7  | 106.9  | 106.6  | 106.6  | 107.1  | 108.3  |
| G75.0  | 116.1  | 113.1  | 110.8  | 108.7  | 107.3  | 106.6  | 106.3  | 106.3  | 106.9  | 108.2  |
| G80.0  | 115.1  | 112.1  | 109.8  | 107.7  | 106.4  | 105.7  | 105.3  | 105.4  | 106.1  | 107.3  |
| G85.0  | 113.5  | 110.6  | 108.3  | 106.3  | 104.9  | 104.2  | 103.9  | 104.1  | 104.7  | 106.1  |
| G90.0  | 111.2  | 108.4  | 106.3  | 104.2  | 102.6  | 101.7  | 101.4  | 101.7  | 102.4  | 103.6  |
| G95.0  | 109.7  | 106.9  | 104.9  | 102.8  | 101.3  | 100.5  | 100.3  | 100.6  | 101.4  | 102.6  |
| G100.0 | 106.4  | 104.5  | 102.4  | 100.5  | 98.5   | 96.8   | 96.7   | 97.8   | 98.5   | 99.8   |
| G105.0 | 97.4   | 97.1   | 95.3   | 93.3   | 90.2   | 87.7   | 87.2   | 88.9   | 90.0   | 90.6   |
| G110.0 | 84.1   | 86.3   | 85.1   | 82.9   | 78.0   | 74.6   | 73.5   | 76.3   | 78.0   | 77.9   |
| G115.0 | 67.5   | 72.1   | 56.8   | 69.2   | 62.9   | 58.0   | 56.3   | 60.1   | 62.3   | 61.6   |
| G120.0 | 49.8   | 55.7   | 34.8   | 53.3   | 46.5   | 40.1   | 37.9   | 42.7   | 45.0   | 44.0   |
| G125.0 | 32.7   | 38.9   | 23.7   | 37.2   | 31.1   | 22.9   | 20.5   | 26.2   | 28.1   | 27.2   |
| G130.0 | 18.3   | 23.4   | 13.5   | 22.4   | 17.8   | 8.4    | 8.2    | 12.6   | 13.3   | 13.1   |
| G135.0 | 7.3    | 10.9   | 4.9    | 10.3   | 7.4    | 2.0    | 1.9    | 3.3    | 1.7    | 3.3    |
| G140.0 | 1.7    | 2.1    | 1.4    | 2.2    | 2.0    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| G145.0 | 1.3    | 1.3    | 1.3    | 1.4    | 1.3    | 1.4    | 1.3    | 1.3    | 1.3    | 1.4    |
| G150.0 | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| G155.0 | 1.3    | 1.2    | 1.2    | 1.3    | 1.2    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| G160.0 | 1.2    | 1.2    | 1.2    | 1.3    | 1.2    | 1.3    | 1.2    | 1.2    | 1.2    | 1.3    |
| G165.0 | 1.2    | 1.2    | 1.2    | 1.3    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| G170.0 | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| G175.0 | 1.2    | 1.2    | 1.2    | 1.3    | 1.1    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| G180.0 | 1.2    | 1.2    | 1.2    | 1.3    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |

C Plane (°):0.0-360.0: 15.0  
Test Lab: FARO LAB  
Test Type: TYPE C  
Temperature: 25  
Operator: Sergio Feria

Gamma Plane (°):0.0-180.0:5.0  
Test Device: GPM-1600L  
Distance: 8.826 m [K=1.0000]  
Humidity: 60%  
Inspector:

## Candlepower Table (Continue 2)

Unit: cd/klm

| G\C    | C300.0 | C315.0 | C330.0 | C345.0 | C360.0 |  |  |  |  |  |
|--------|--------|--------|--------|--------|--------|--|--|--|--|--|
| G0.0   | 89.9   | 89.9   | 90.0   | 89.9   | 90.1   |  |  |  |  |  |
| G5.0   | 89.5   | 89.7   | 90.0   | 90.3   | 90.6   |  |  |  |  |  |
| G10.0  | 89.6   | 89.9   | 90.5   | 91.1   | 91.6   |  |  |  |  |  |
| G15.0  | 90.0   | 90.6   | 91.4   | 92.2   | 93.1   |  |  |  |  |  |
| G20.0  | 91.0   | 91.8   | 92.8   | 93.8   | 94.9   |  |  |  |  |  |
| G25.0  | 92.6   | 93.5   | 94.6   | 95.9   | 97.2   |  |  |  |  |  |
| G30.0  | 94.5   | 95.6   | 96.9   | 98.3   | 99.8   |  |  |  |  |  |
| G35.0  | 96.8   | 98.0   | 99.4   | 101.0  | 102.7  |  |  |  |  |  |
| G40.0  | 99.3   | 100.7  | 102.1  | 103.8  | 105.7  |  |  |  |  |  |
| G45.0  | 101.9  | 103.4  | 105.0  | 106.7  | 108.7  |  |  |  |  |  |
| G50.0  | 104.4  | 105.8  | 107.5  | 109.3  | 111.4  |  |  |  |  |  |
| G55.0  | 106.5  | 108.2  | 109.8  | 111.6  | 113.9  |  |  |  |  |  |
| G60.0  | 108.3  | 109.9  | 111.6  | 113.4  | 115.9  |  |  |  |  |  |
| G65.0  | 109.5  | 111.1  | 112.8  | 114.6  | 117.5  |  |  |  |  |  |
| G70.0  | 110.0  | 111.7  | 113.4  | 115.3  | 118.0  |  |  |  |  |  |
| G75.0  | 109.9  | 111.6  | 113.4  | 115.2  | 117.7  |  |  |  |  |  |
| G80.0  | 109.2  | 110.9  | 112.7  | 114.6  | 117.1  |  |  |  |  |  |
| G85.0  | 107.8  | 109.6  | 111.4  | 113.4  | 115.8  |  |  |  |  |  |
| G90.0  | 105.2  | 107.0  | 109.0  | 111.1  | 113.7  |  |  |  |  |  |
| G95.0  | 104.2  | 106.0  | 108.0  | 109.9  | 112.5  |  |  |  |  |  |
| G100.0 | 100.4  | 102.0  | 104.9  | 107.2  | 109.3  |  |  |  |  |  |
| G105.0 | 90.3   | 92.1   | 95.2   | 98.1   | 100.4  |  |  |  |  |  |
| G110.0 | 76.3   | 78.5   | 81.6   | 85.5   | 88.1   |  |  |  |  |  |
| G115.0 | 58.6   | 61.2   | 64.8   | 69.4   | 58.2   |  |  |  |  |  |
| G120.0 | 39.6   | 42.4   | 47.0   | 51.3   | 34.5   |  |  |  |  |  |
| G125.0 | 21.8   | 24.1   | 30.2   | 33.7   | 21.9   |  |  |  |  |  |
| G130.0 | 9.2    | 8.1    | 16.5   | 18.0   | 10.1   |  |  |  |  |  |
| G135.0 | 2.4    | 1.6    | 7.0    | 6.4    | 2.2    |  |  |  |  |  |
| G140.0 | 1.4    | 1.4    | 1.9    | 2.0    | 1.4    |  |  |  |  |  |
| G145.0 | 1.3    | 1.3    | 1.4    | 1.3    | 1.3    |  |  |  |  |  |
| G150.0 | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |  |  |  |  |  |
| G155.0 | 1.3    | 1.2    | 1.3    | 1.3    | 1.2    |  |  |  |  |  |
| G160.0 | 1.2    | 1.2    | 1.3    | 1.2    | 1.2    |  |  |  |  |  |
| G165.0 | 1.2    | 1.2    | 1.2    | 1.1    | 1.2    |  |  |  |  |  |
| G170.0 | 1.2    | 1.1    | 1.2    | 1.2    | 1.2    |  |  |  |  |  |
| G175.0 | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |  |  |  |  |  |
| G180.0 | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |  |  |  |  |  |

C Plane (°):0.0-360.0: 15.0  
 Test Lab: FARO LAB  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Sergio Feria

Gamma Plane (°):0.0-180.0:5.0  
 Test Device: GPM-1600L  
 Distance: 8.826 m [K=1.0000]  
 Humidity: 60%  
 Inspector: