

Report No.: 2

Test Time: 14.04.2019 15:03

## Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FD 111 145W 5000K 90 rp DALI

Lamp Description: LED

Diameter (mm): 325 mm

Voltage: 221.2 V

Power: 144.25 W

Number of Lamps: 1

Luminous Height (mm): 204 mm

Current: 0.673 A

Power Factor: 0.972

## Photometric Results

CIE Class: Direct

Measurement Flux: 18127 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 136.5, 136.8, 128.7, 127.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 84.4, 84.5, 84.8, 83.9

Luminaire Efficacy Rating (LER): 125.71

Max. Intensity: 9486.85 cd

S/MH(C0/C180): 1.48

Total Rated Lamp Lumens: 18127.0 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 7620.67 cd

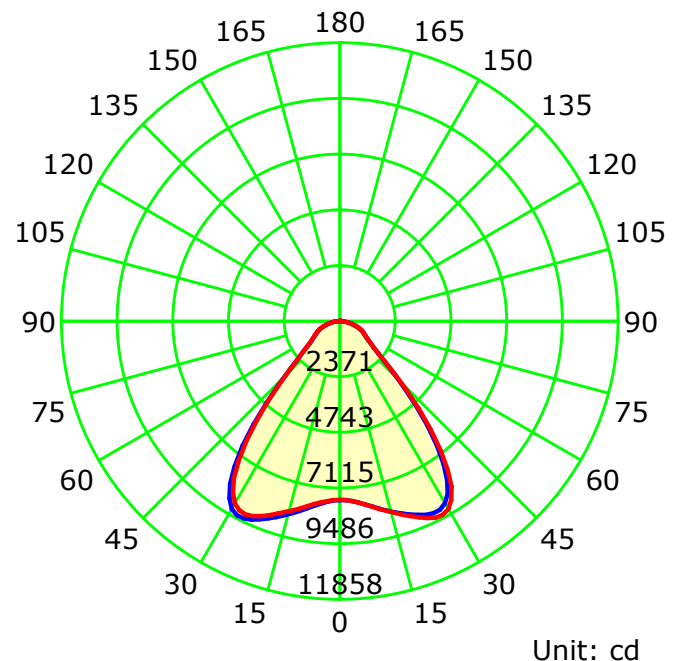
Pos of Max. Intensity: H157.5 V28

S/MH(C90/C270): 1.48

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

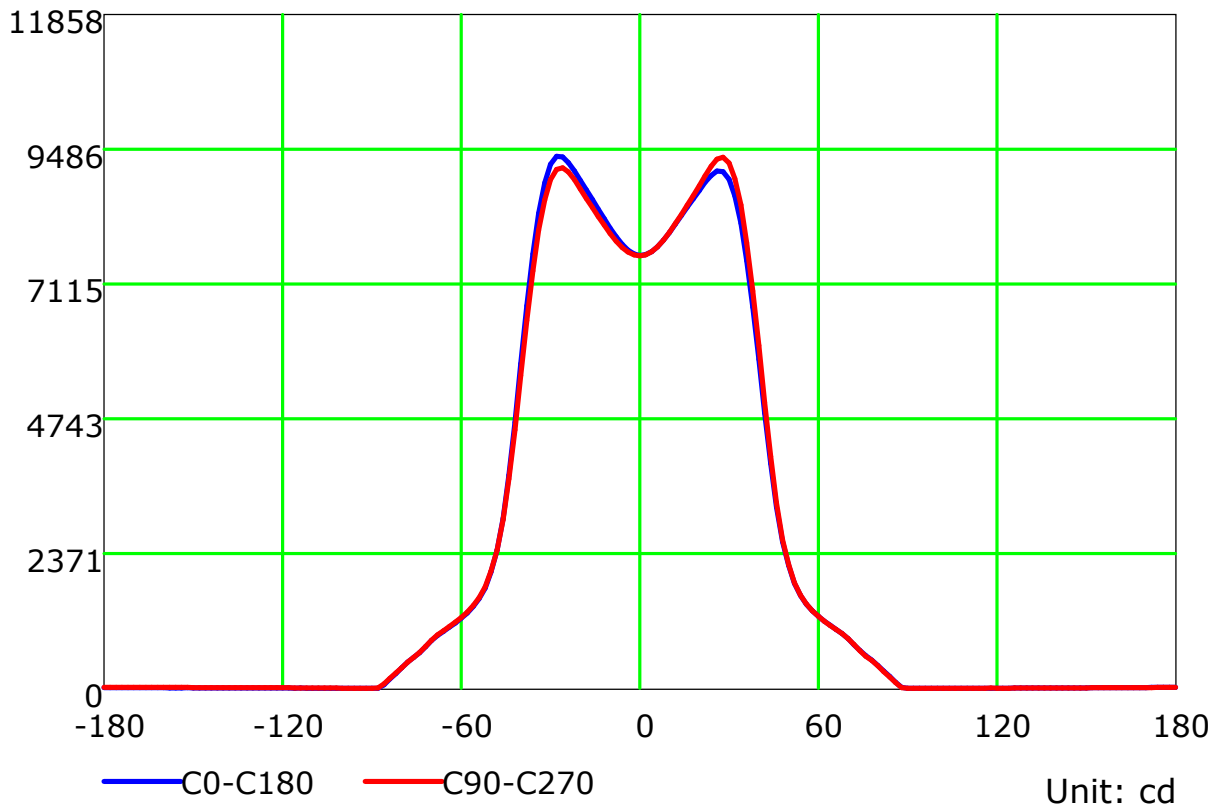
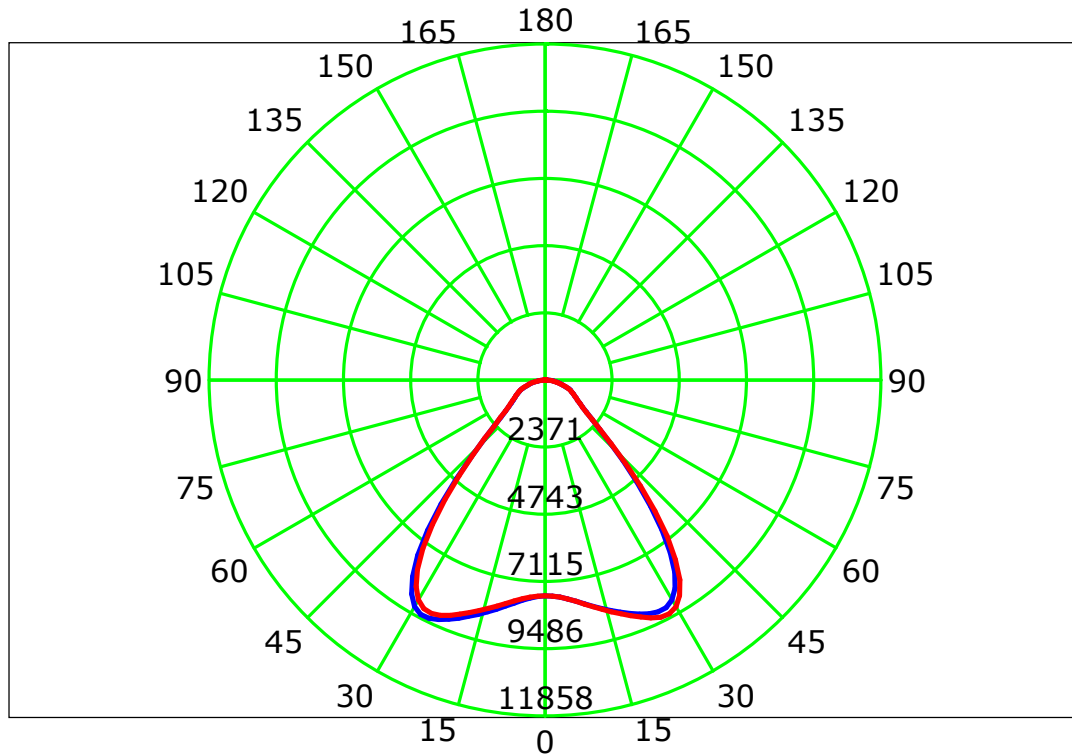
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

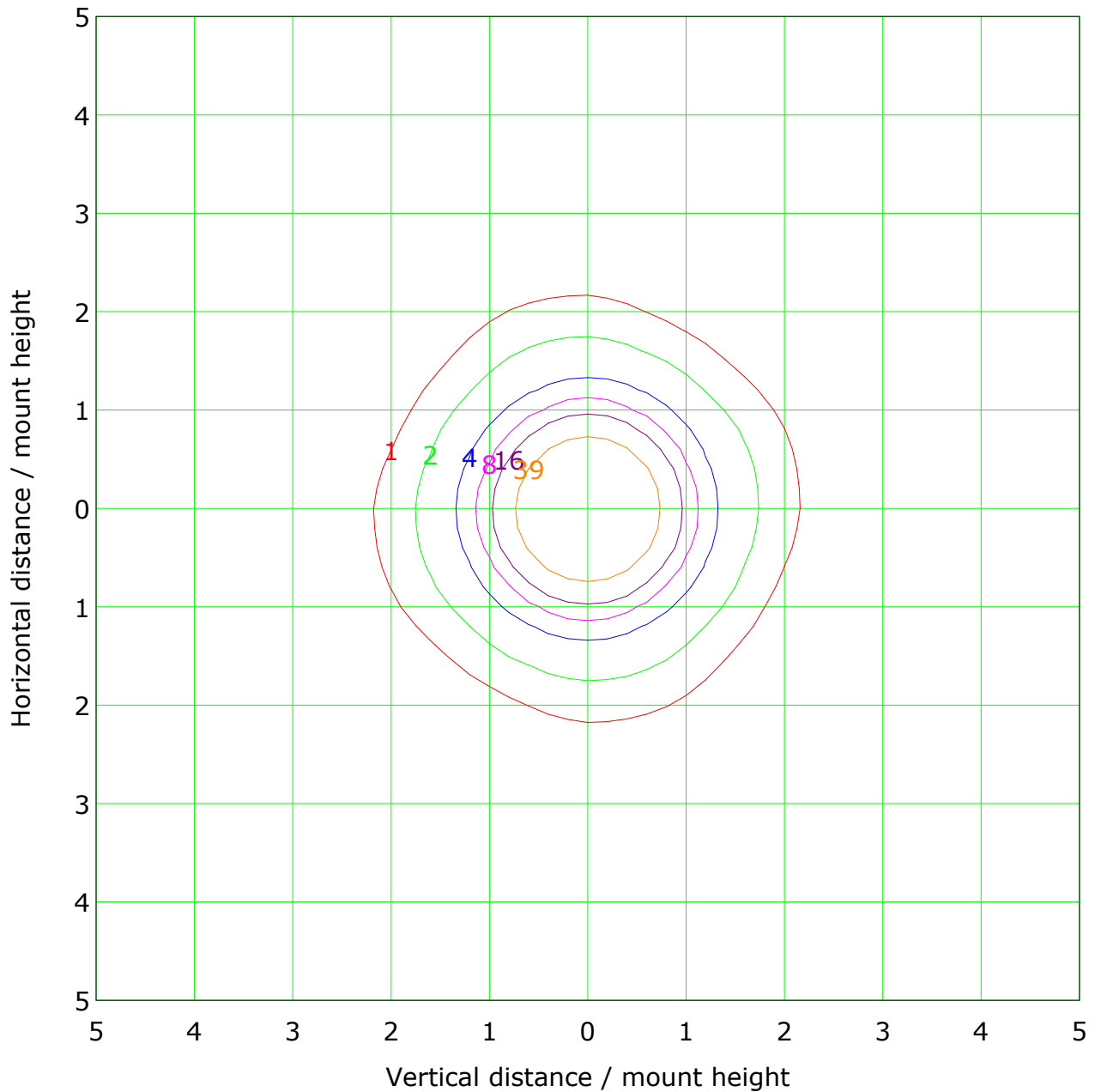
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 77.7 lx

|                 |                 |
|-----------------|-----------------|
| ( 1%): 0.8 lx   | ( 2%): 1.6 lx   |
| ( 5%): 3.9 lx   | ( 10%): 7.8 lx  |
| ( 20%): 15.5 lx | ( 50%): 38.9 lx |
| (100%): 77.7 lx |                 |

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

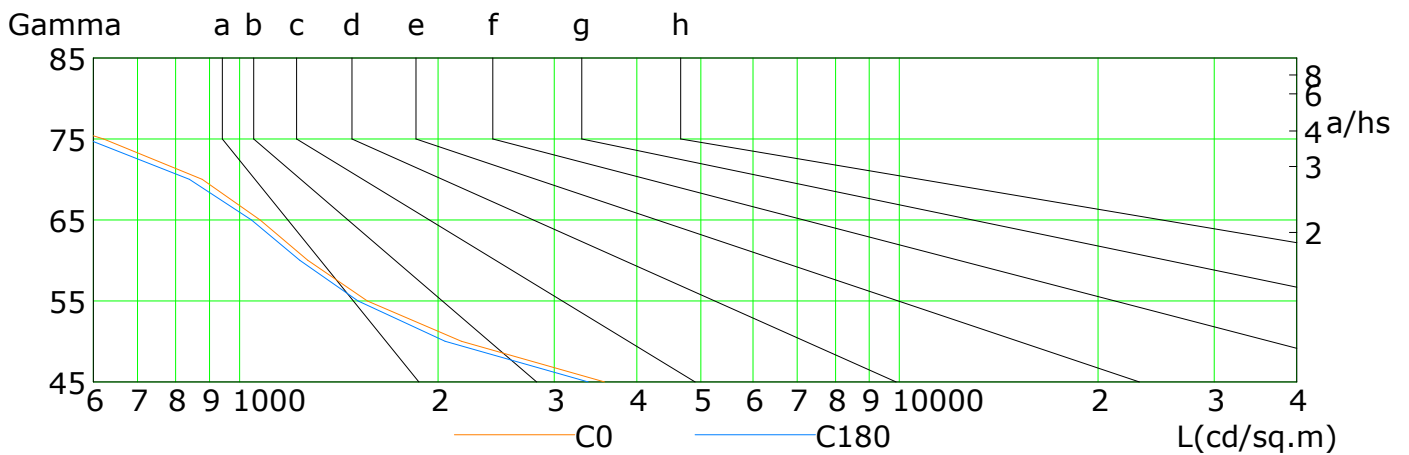
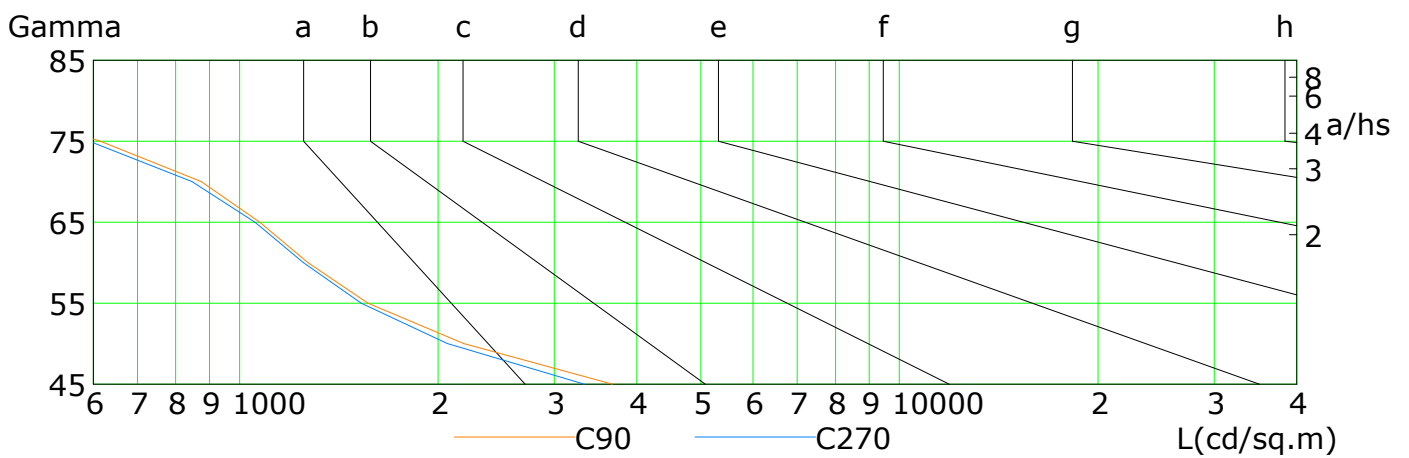
Humidity:

Inspector:

## Lum Limit Curve

| Dazzle | Quality | Illuminance (lx) |      |      |       |       |       |       |       |
|--------|---------|------------------|------|------|-------|-------|-------|-------|-------|
| 1.15   | A       | 2000             | 1000 | 500  | <=300 |       |       |       |       |
| 1.50   | B       |                  | 2000 | 1000 | 500   | <=300 |       |       |       |
| 1.85   | C       |                  |      | 2000 | 1000  | 500   | <=300 |       |       |
| 2.20   | D       |                  |      |      | 2000  | 1000  | 500   | <=300 |       |
| 2.55   | E       |                  |      |      |       | 2000  | 1000  | 500   | <=300 |

a b c d e f g h



| L(cd/sq.m) | G45  | G50  | G55  | G60  | G65  | G70 | G75 | G80 | G85 |
|------------|------|------|------|------|------|-----|-----|-----|-----|
| C0         | 3574 | 2168 | 1561 | 1268 | 1074 | 877 | 622 | 404 | 161 |
| C90        | 3673 | 2185 | 1566 | 1268 | 1074 | 875 | 615 | 396 | 152 |
| C180       | 3374 | 2049 | 1513 | 1234 | 1043 | 840 | 587 | 363 | 117 |
| C270       | 3330 | 2064 | 1528 | 1250 | 1055 | 847 | 592 | 365 | 129 |

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

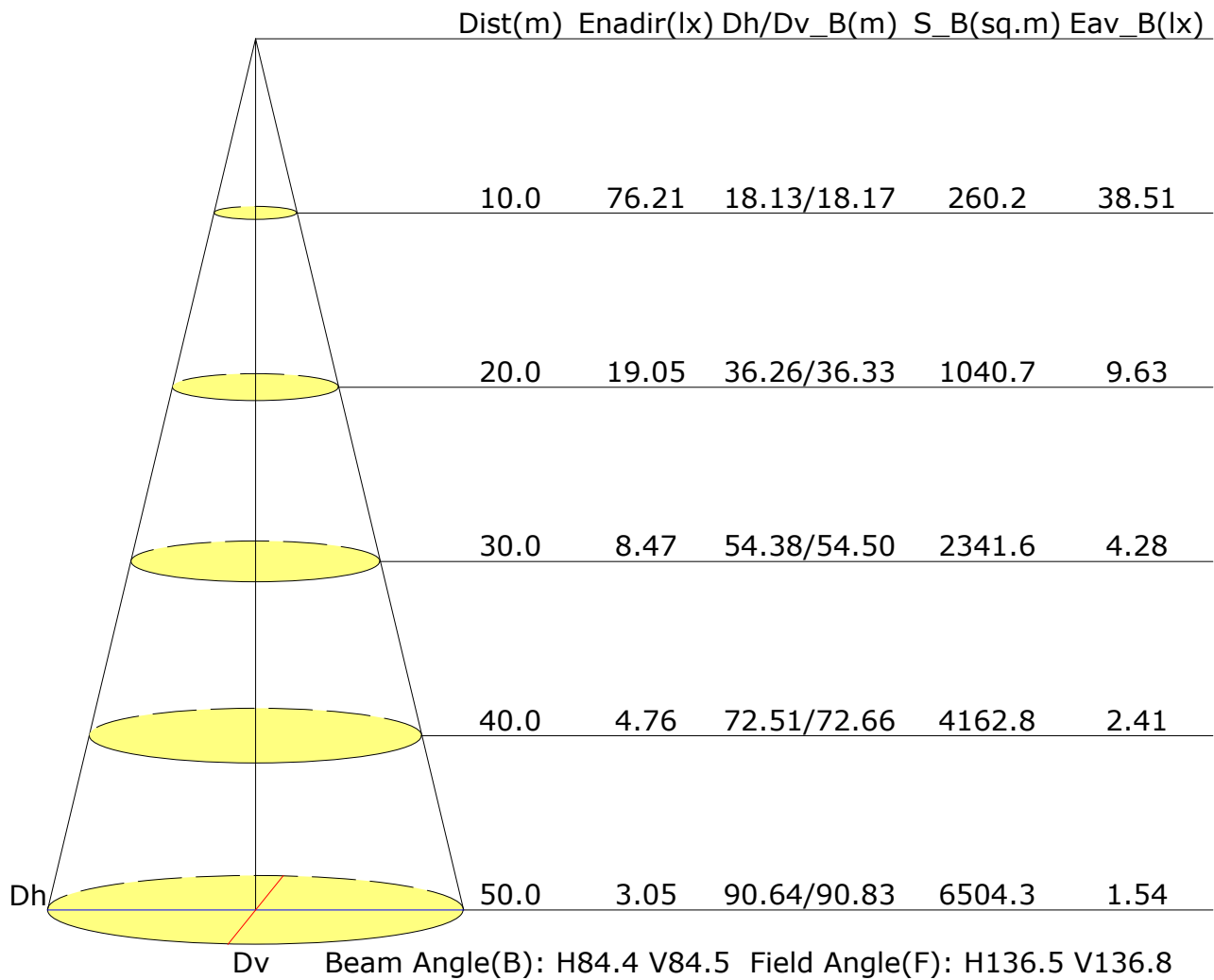
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector: