

Report No.: 1

Test Time: 30.03.2019 14:11

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FT 91 20W 5000K 16 Degrees

Lamp Description: LED

Luminous Width (mm): -91

Voltage: 221.8 V

Power: 20.01 W

Luminous Length (mm): -91

Luminous Height (mm): 250

Current: 0.093 A

Power Factor: 0.960

Photometric Results

CIE Class: Direct

Measurement Flux: 1729.1 lm

Downward Ratio: 92%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 40.4, 40.9, 40.9, 40.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 24.4, 24.7, 25.0, 24.4

Luminaire Efficacy Rating (LER): 86.46

Max. Intensity: 6329.78 cd

S/MH(C0/C180): 0.42

Total Rated Lamp Lumens: 1729.1 lm

Efficiency: 100%

Upward Ratio: 8%

Central Intensity: 6295.29 cd

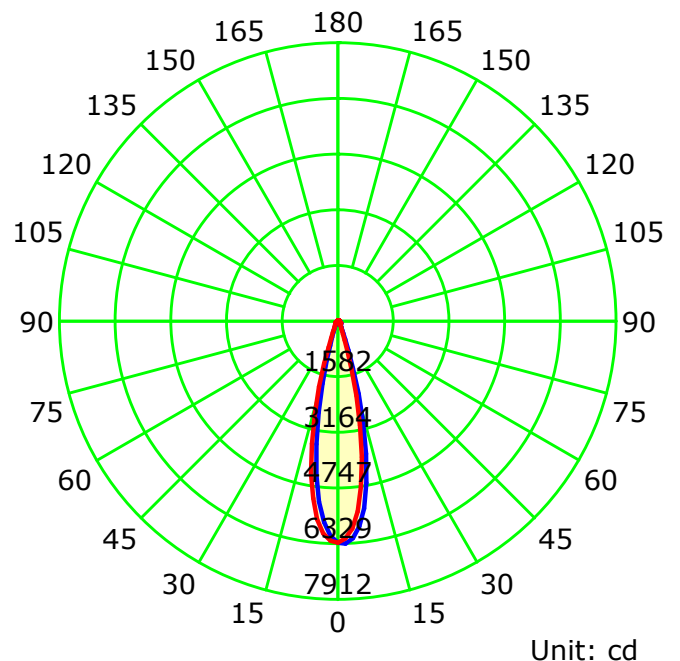
Pos of Max. Intensity: H0 V2

S/MH(C90/C270): 0.42

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

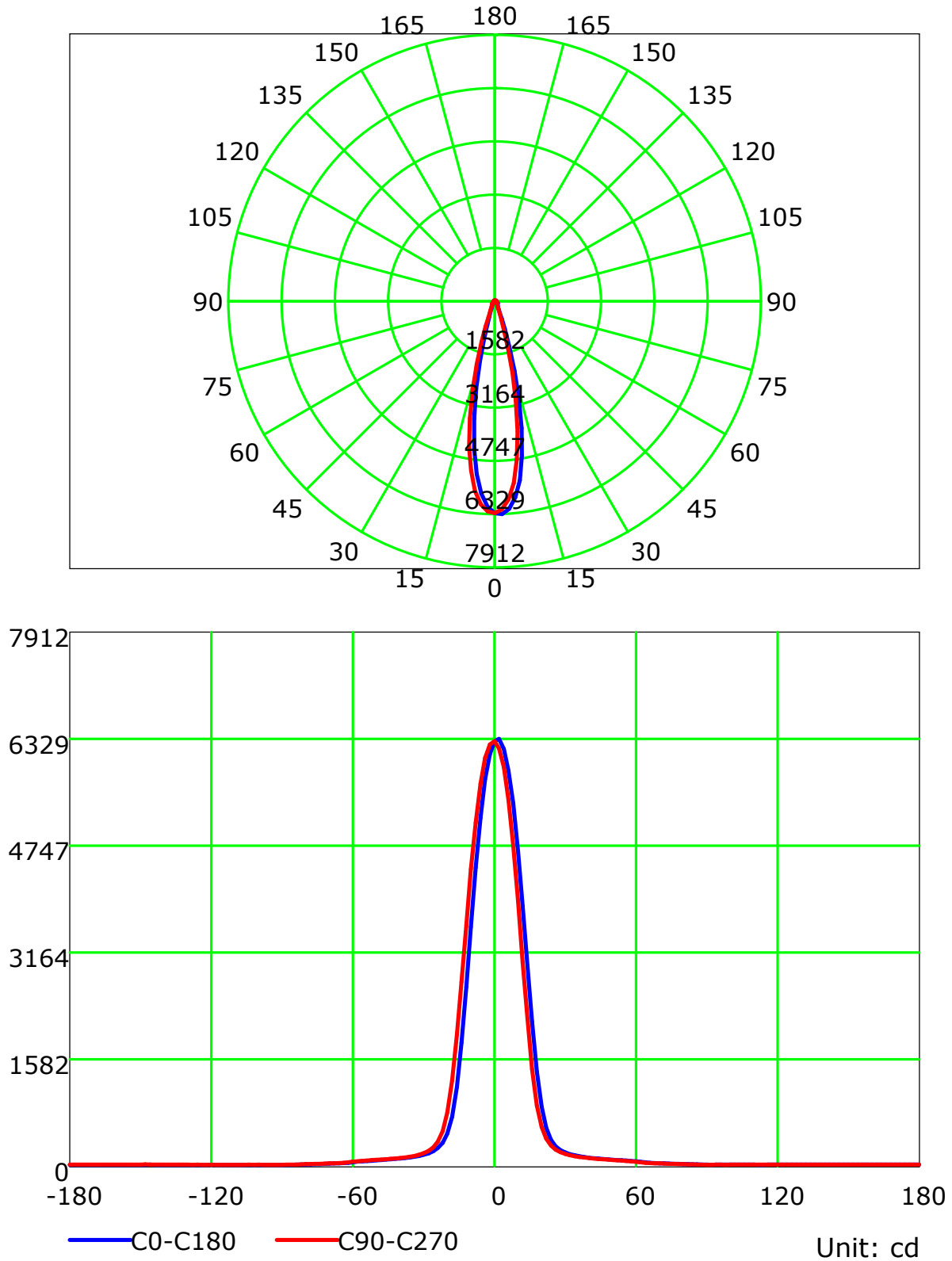
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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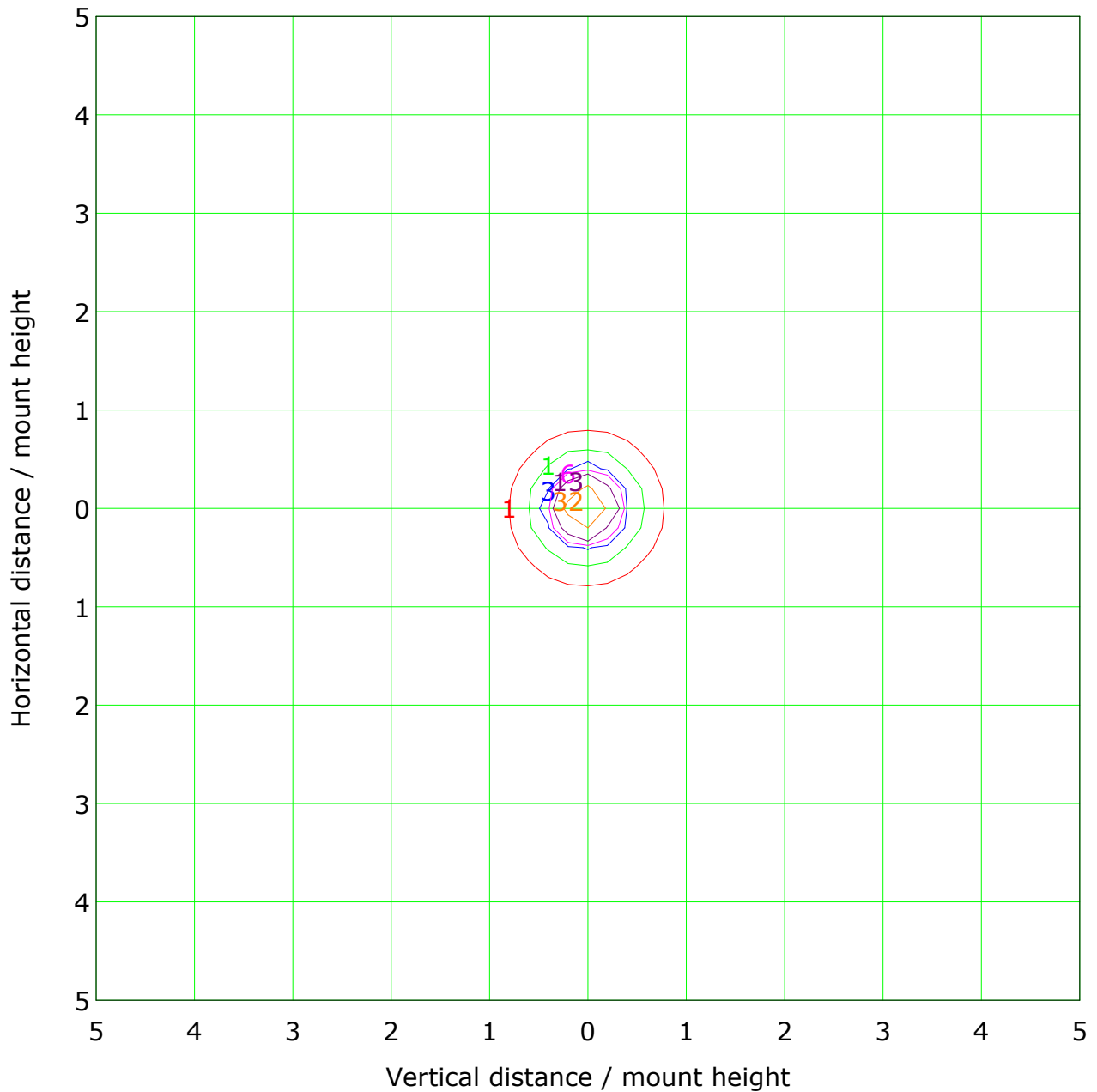
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 63.2 lx

| | |
|-----------------|-----------------|
| (1%): 0.6 lx | (2%): 1.3 lx |
| (5%): 3.2 lx | (10%): 6.3 lx |
| (20%): 12.6 lx | (50%): 31.6 lx |
| (100%): 63.2 lx | |

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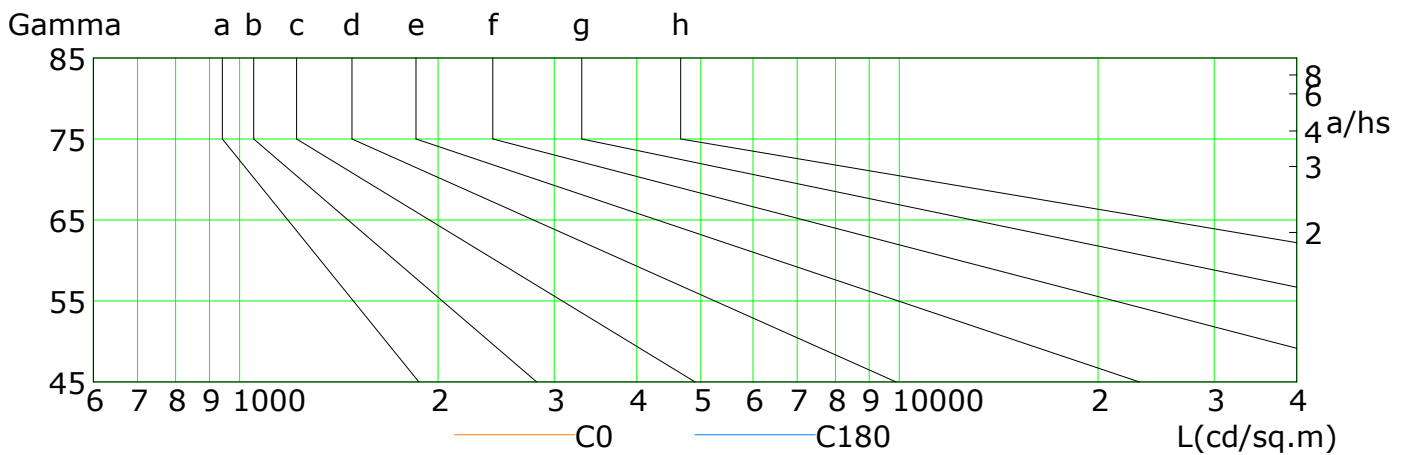
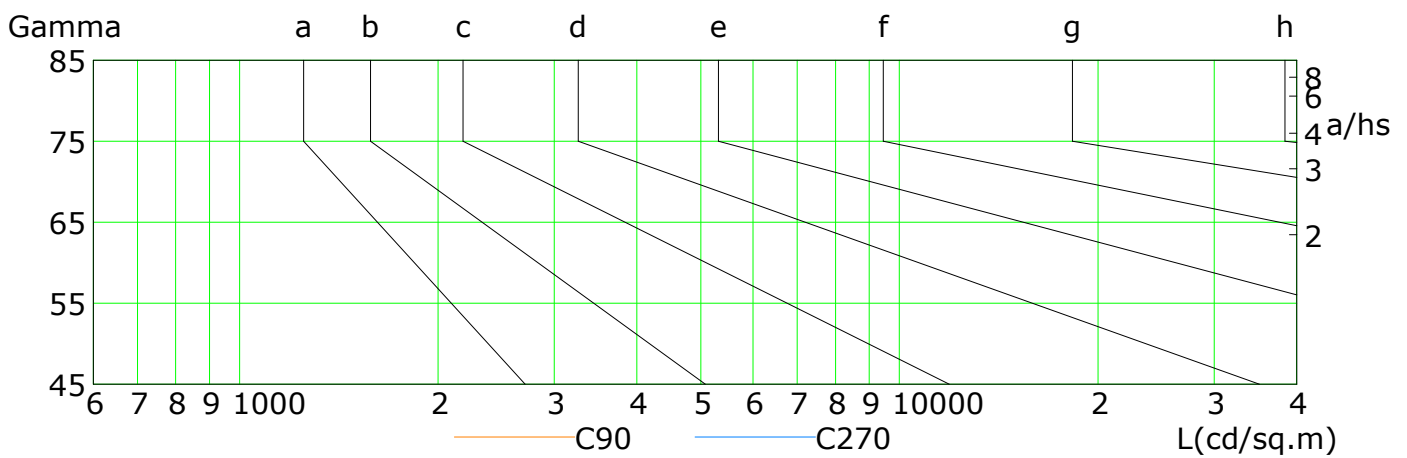
Humidity:

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 | 111 | 98 | 86 | 72 | 53 | 45 | 38 | 32 | 28 |
| C90 | 106 | 94 | 81 | 66 | 49 | 43 | 37 | 31 | 26 |
| C180 | 102 | 87 | 76 | 59 | 46 | 39 | 32 | 27 | 23 |
| C270 | 107 | 95 | 83 | 68 | 49 | 43 | 36 | 31 | 25 |

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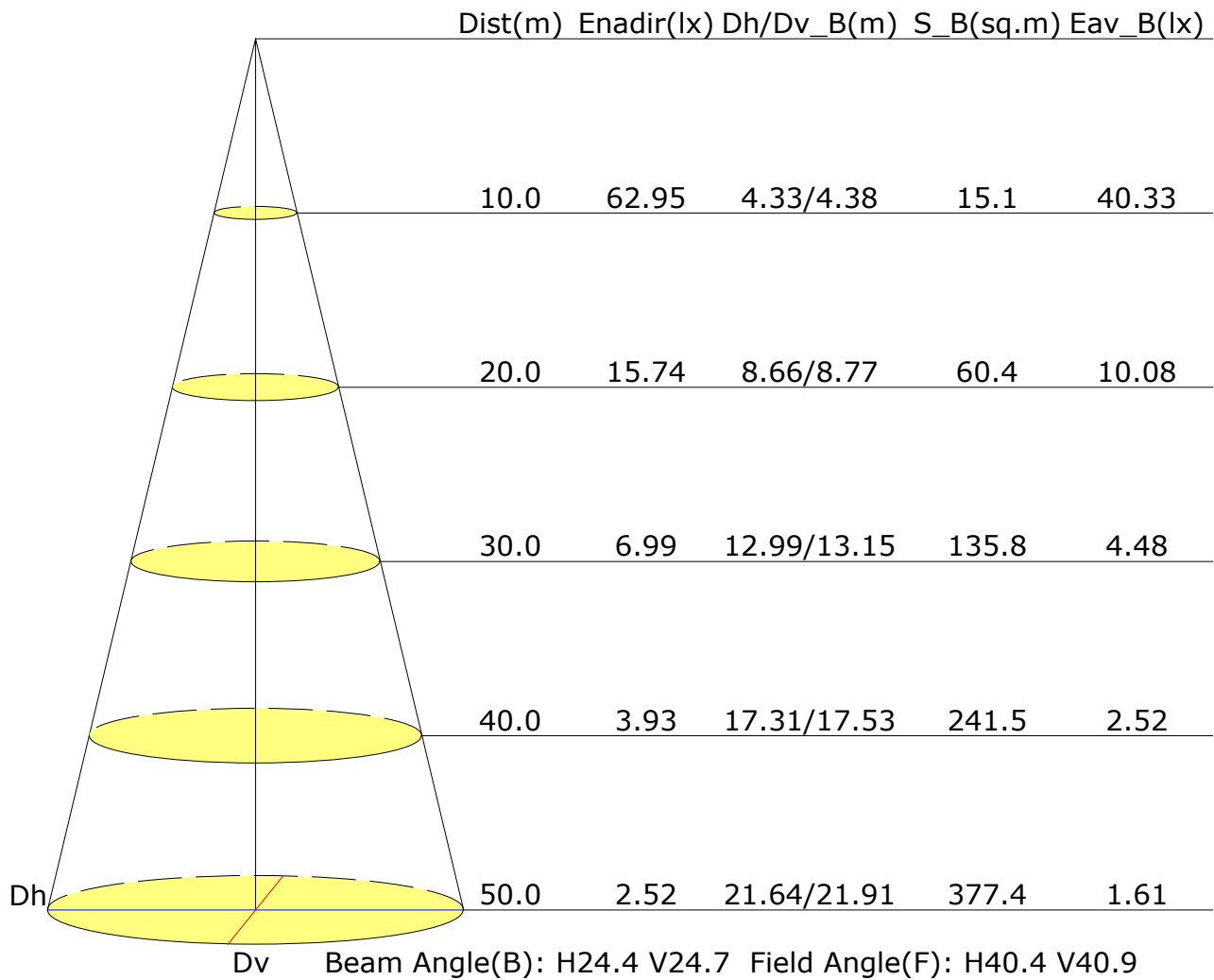
Test Device: LSG-1800B

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: