

Report No.:52.05526 Mini Pro Recessed  
Downlight

Test Time: 2024-10-14 18:03

## Luminaire Property

Luminaire Category:

Luminaire Description: 50D

Current: 0.058 A

Power Factor: 0.582

Voltage: 226.4 V

Power: 7.70 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 416.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H56.8

Vertical Diffuse Angle(50%): V56.8

Luminaire Efficacy Rating (LER): 54

Max. Intensity: 462.83 cd

Total Rated Lamp Lumens: 416.7 lm

Efficiency: 100%

Upward Ratio: 0%

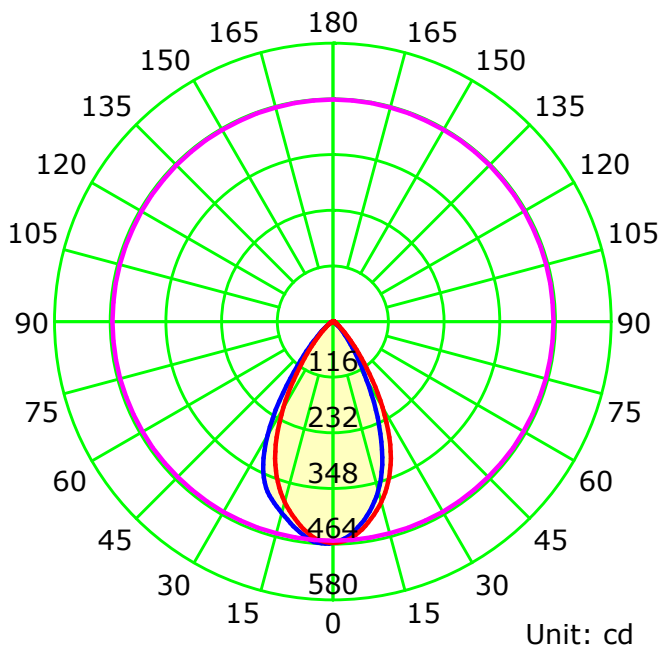
Central Intensity: 461.08 cd

Pos of Max. Intensity: H180 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G2

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

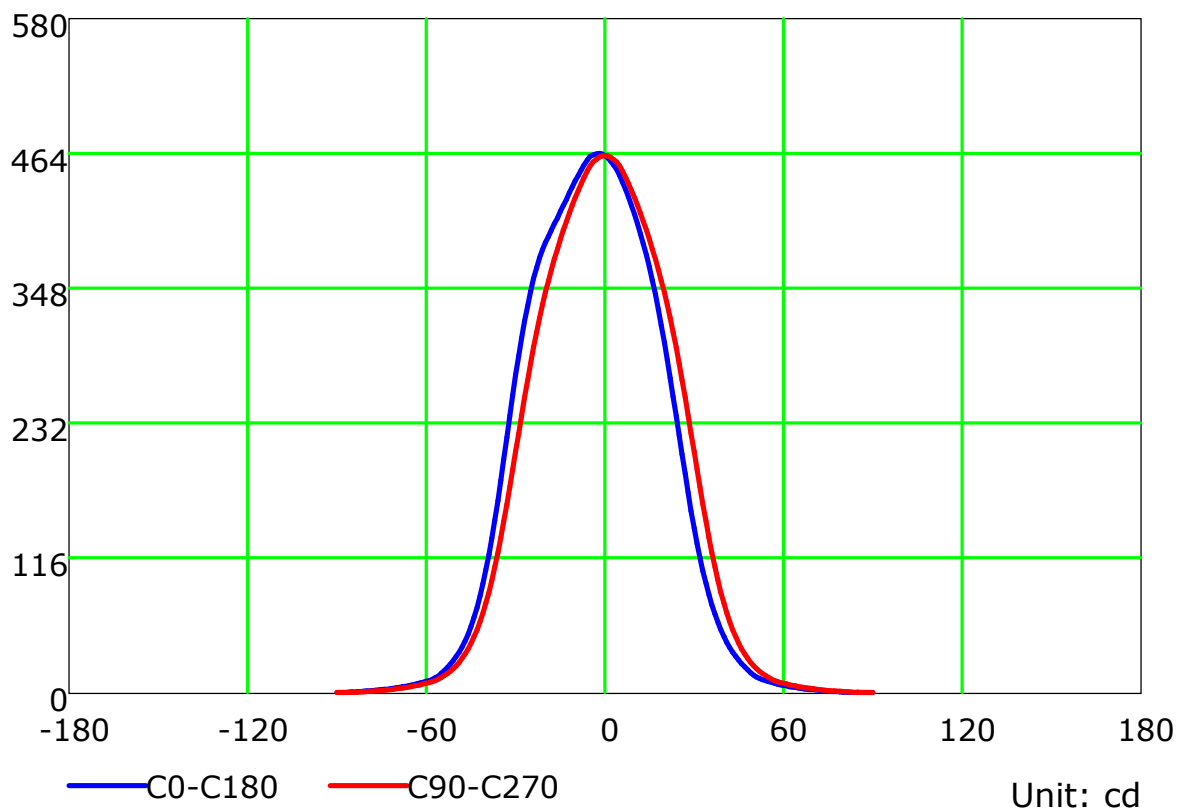
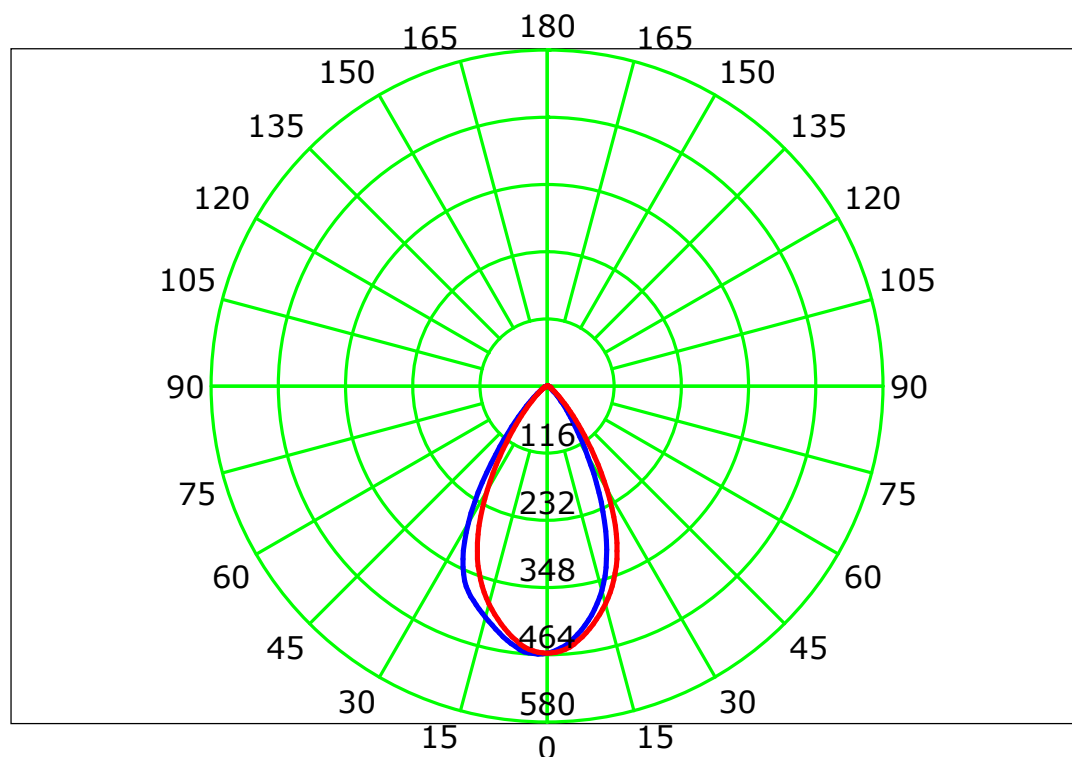
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

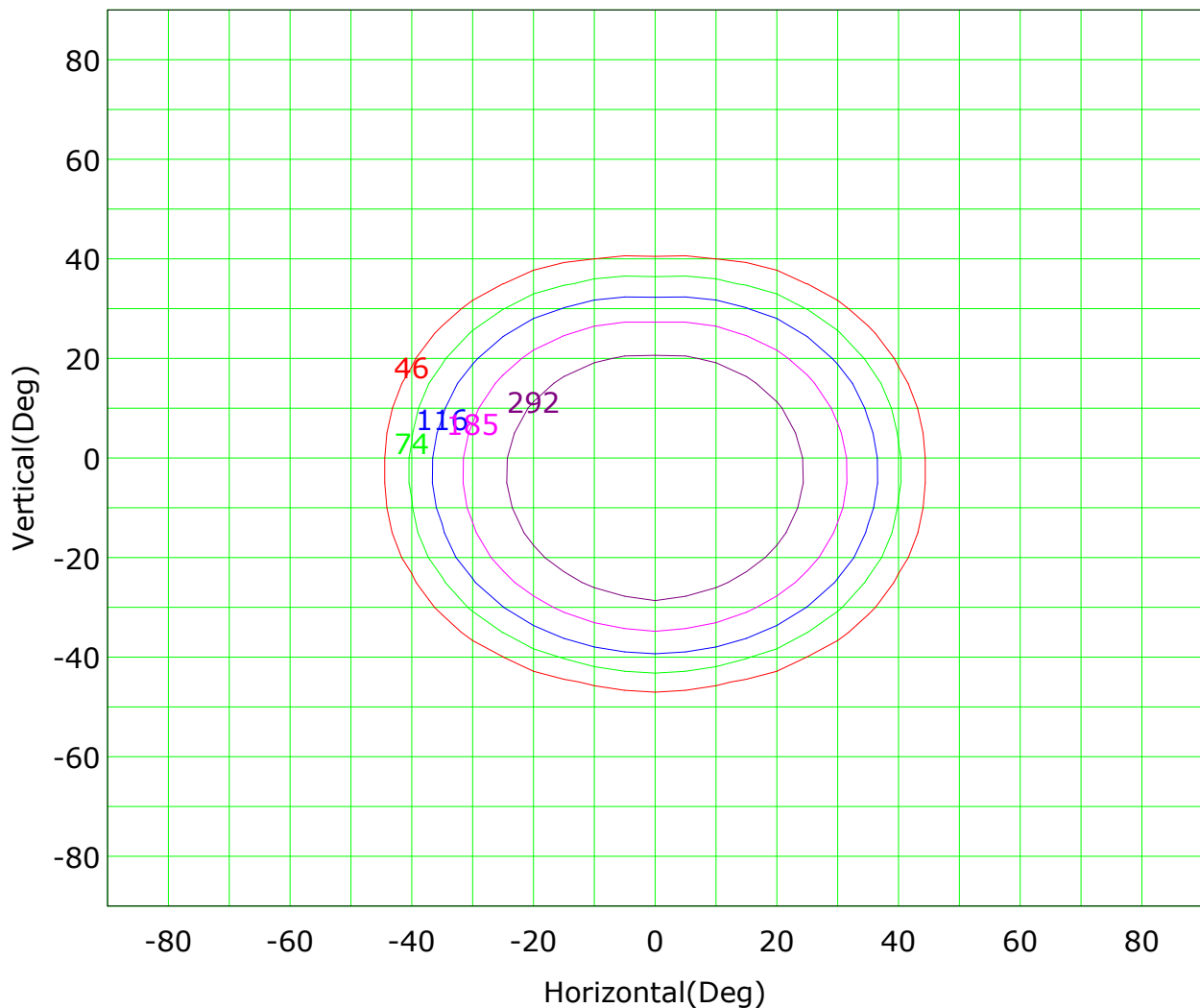
## Luminous Intensity Distribution Curve



C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

## Isocandela (rectangle)



Imax (100%): 463 cd

|         |        |         |        |
|---------|--------|---------|--------|
| ( 10%): | 46 cd  | ( 16%): | 74 cd  |
| ( 25%): | 116 cd | ( 40%): | 185 cd |
| ( 63%): | 292 cd | (100%): | 463 cd |

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

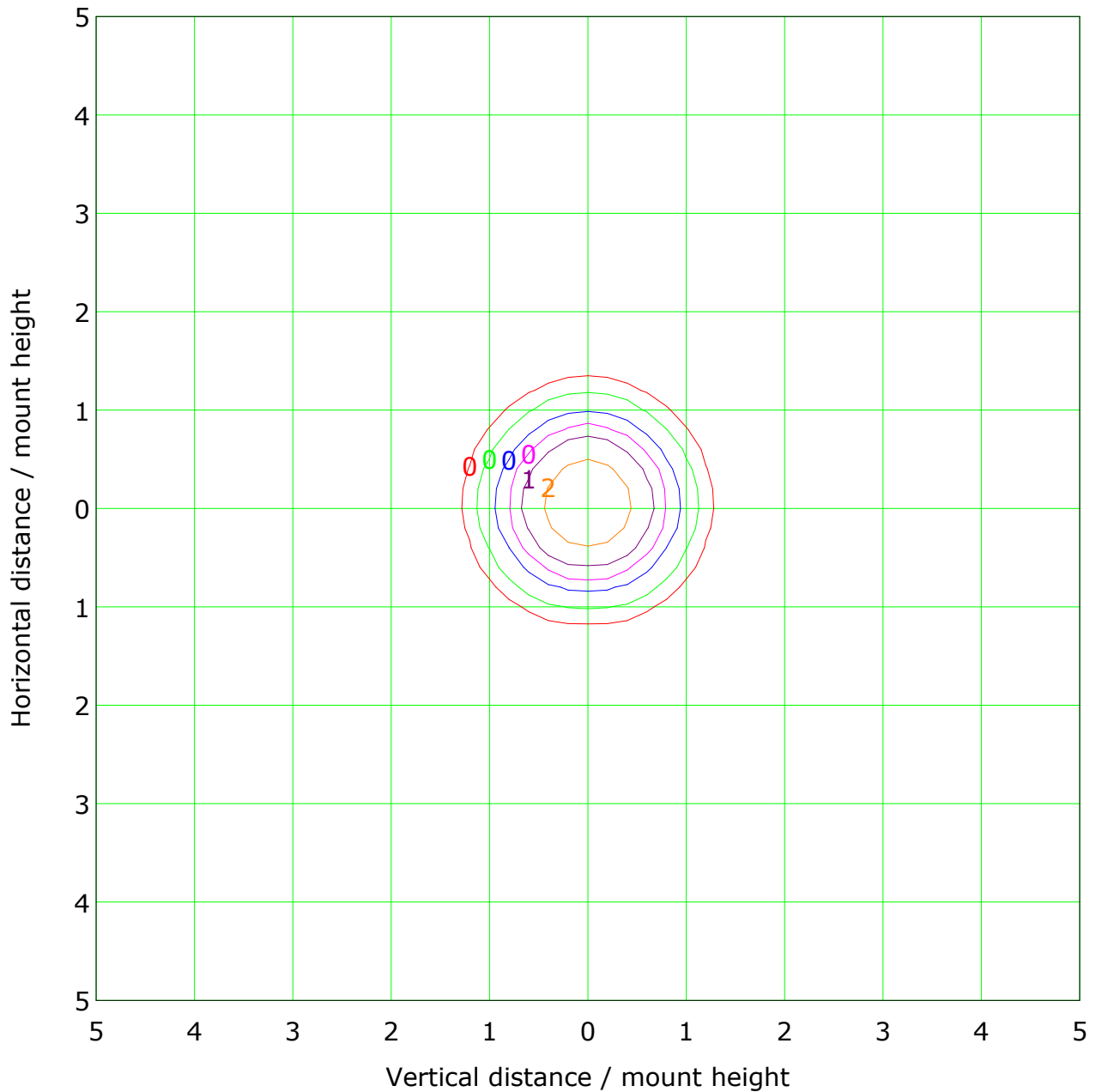
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot

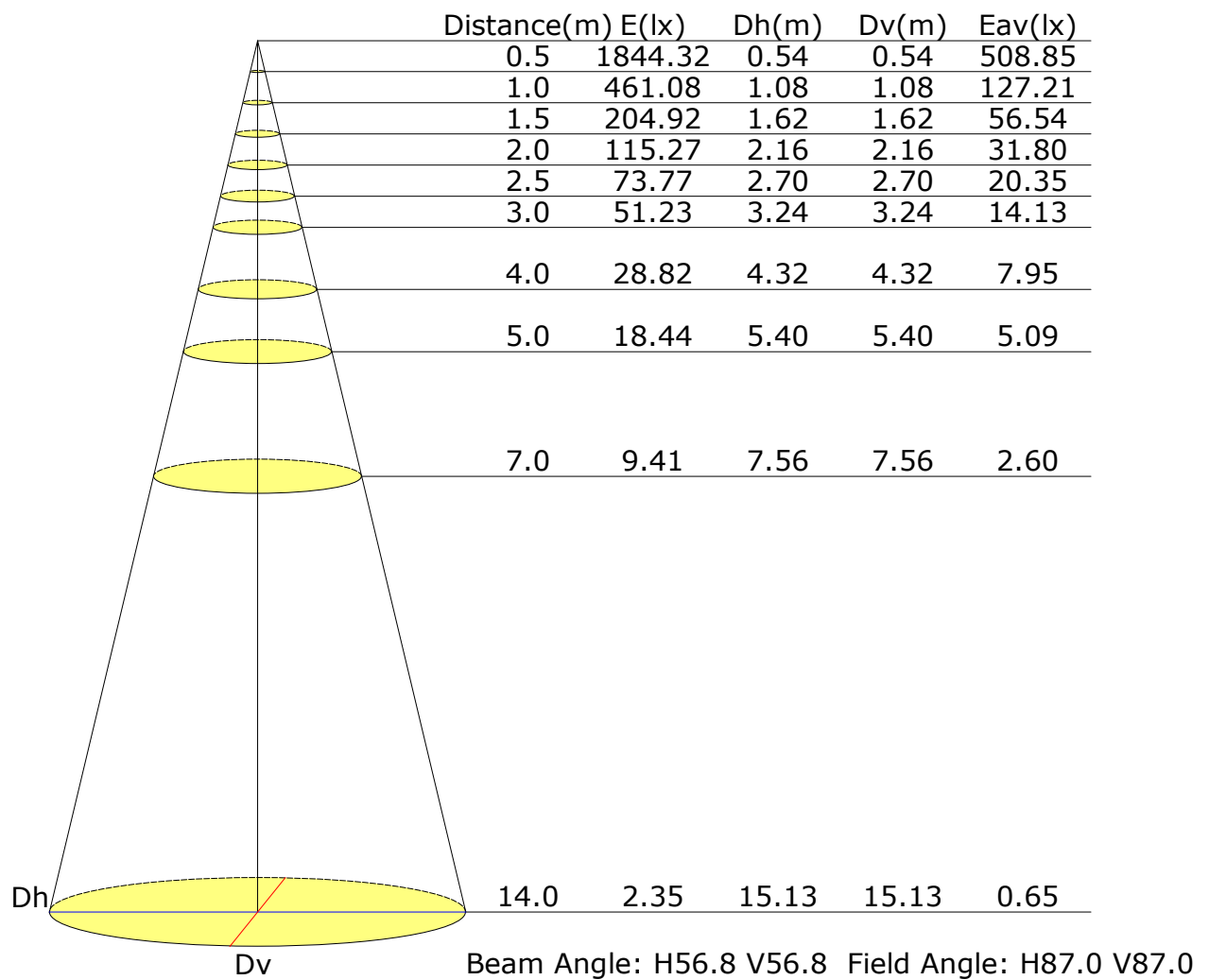


|   |      |           |      |
|---|------|-----------|------|
| Mounting Height: 10m    Max Lux(100%): 5 lx |      |           |      |
| — ( 1%):                                    | 0 lx | — ( 2%):  | 0 lx |
| — ( 5%):                                    | 0 lx | — ( 10%): | 0 lx |
| — ( 20%):                                   | 1 lx | — ( 50%): | 2 lx |
| — (100%):                                   | 5 lx |           |      |

C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

## Illuminance at a Distance



C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

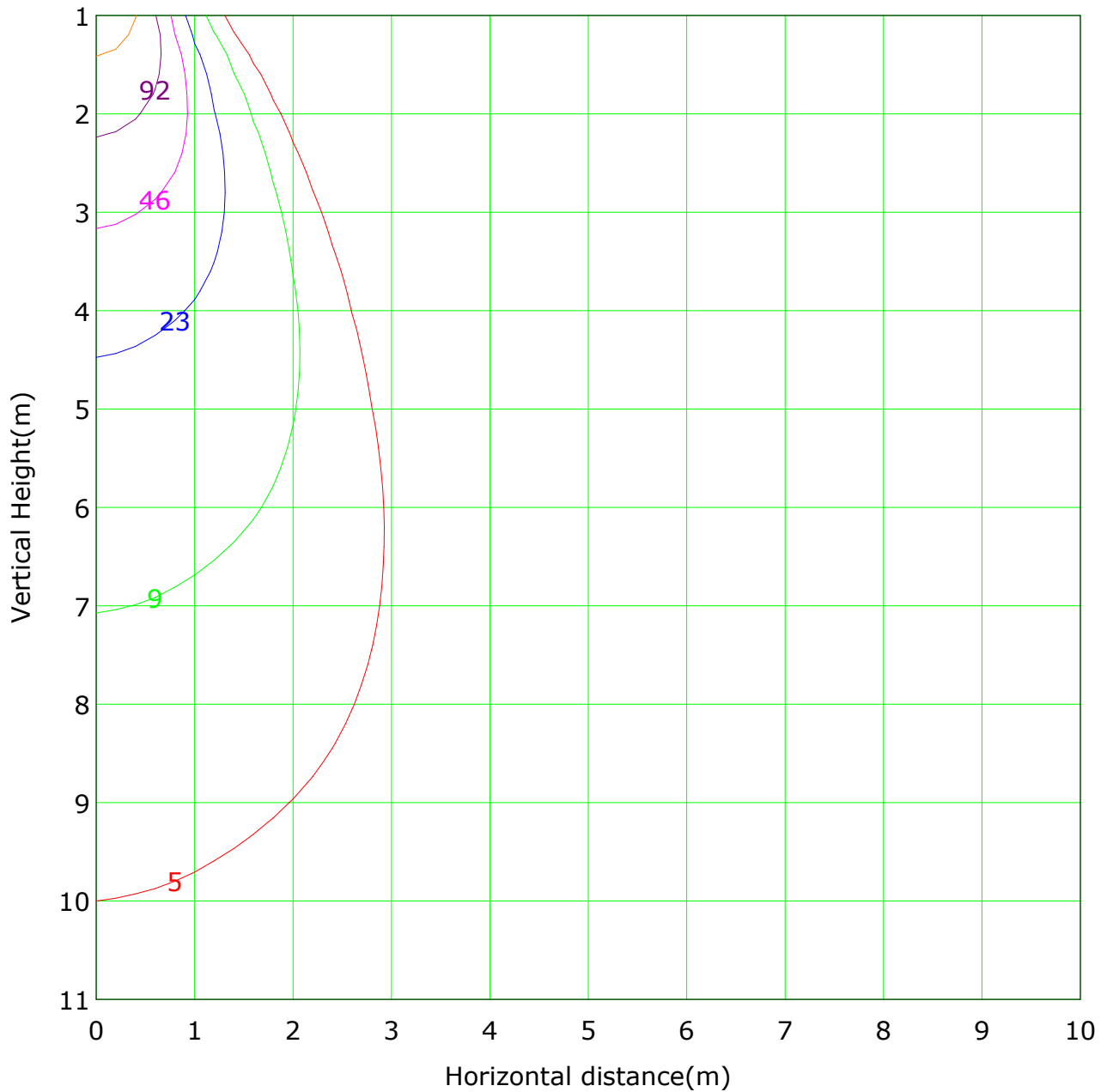
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## Vertical IsoLux Plot



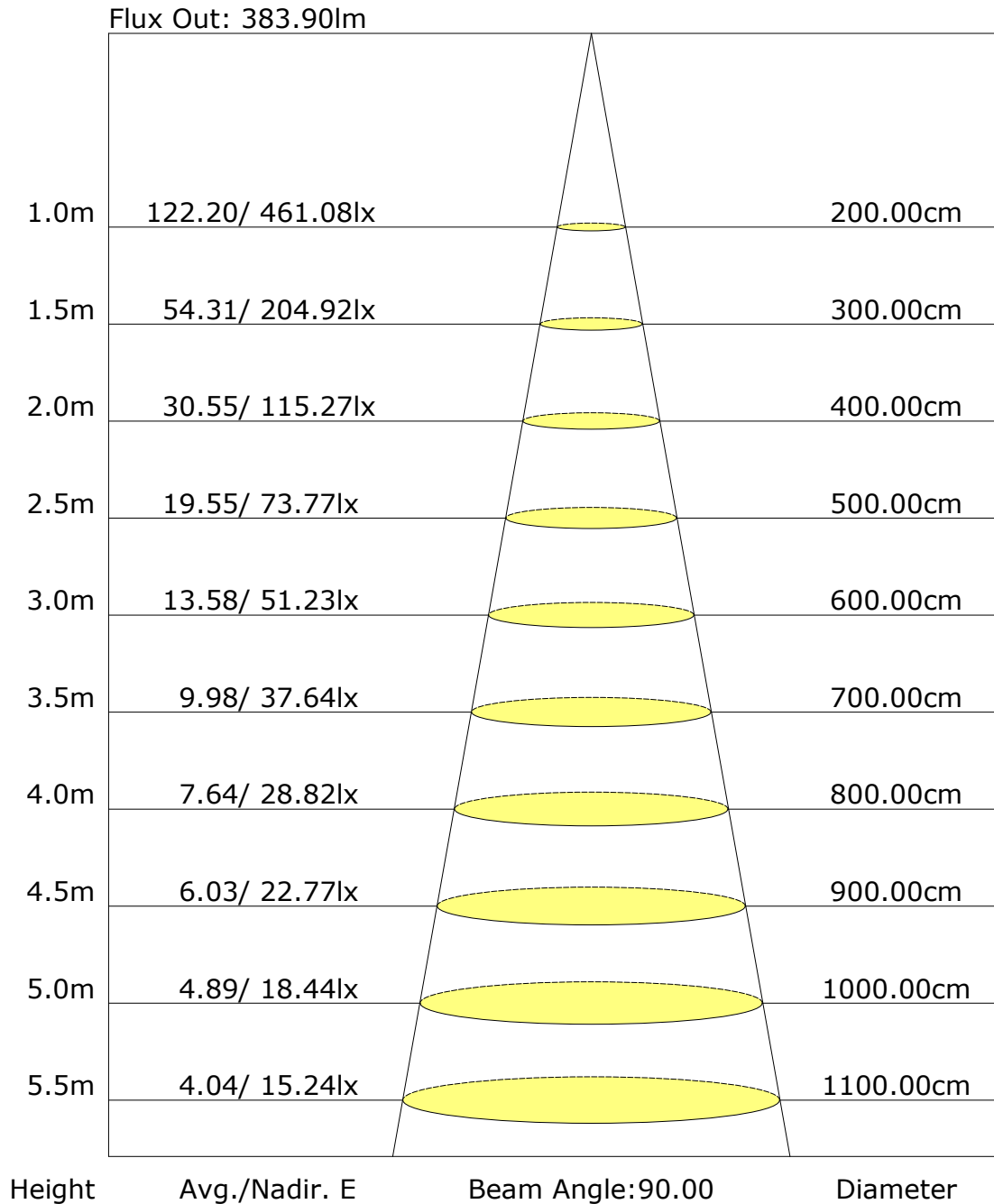
Lowest(m): 1m Highest(m): 11 Max Lux: 461

|                |                |
|----------------|----------------|
| ( 1%): 5 lx    | ( 2%): 9 lx    |
| ( 5%): 23 lx   | ( 10%): 46 lx  |
| ( 20%): 92 lx  | ( 50%): 231 lx |
| (100%): 461 lx |                |

C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

## The average illuminance effective figure



C Plane (°): 0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°): 0.0-90.0: 1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

## Zonal Lumen

| Gamma<br>[°] | I <sub>mean</sub><br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 0.0-1.0      | 460.9                     | 0.4                | 0.4                    | 0.11                  | 0.11                      |
| 1.0-2.0      | 460.1                     | 1.3                | 1.8                    | 0.32                  | 0.42                      |
| 2.0-3.0      | 458.6                     | 2.2                | 4.0                    | 0.53                  | 0.95                      |
| 3.0-4.0      | 456.5                     | 3.1                | 7.0                    | 0.73                  | 1.68                      |
| 4.0-5.0      | 453.8                     | 3.9                | 10.9                   | 0.94                  | 2.62                      |
| 5.0-6.0      | 450.0                     | 4.7                | 15.6                   | 1.14                  | 3.75                      |
| 6.0-7.0      | 445.1                     | 5.5                | 21.2                   | 1.33                  | 5.08                      |
| 7.0-8.0      | 439.7                     | 6.3                | 27.5                   | 1.51                  | 6.59                      |
| 8.0-9.0      | 434.0                     | 7.0                | 34.5                   | 1.69                  | 8.28                      |
| 9.0-10.0     | 428.0                     | 7.7                | 42.2                   | 1.86                  | 10.14                     |
| 10.0-11.0    | 421.6                     | 8.4                | 50.7                   | 2.02                  | 12.16                     |
| 11.0-12.0    | 414.9                     | 9.1                | 59.7                   | 2.18                  | 14.34                     |
| 12.0-13.0    | 407.9                     | 9.7                | 69.4                   | 2.32                  | 16.66                     |
| 13.0-14.0    | 400.6                     | 10.3               | 79.7                   | 2.46                  | 19.12                     |
| 14.0-15.0    | 393.1                     | 10.8               | 90.5                   | 2.59                  | 21.71                     |
| 15.0-16.0    | 385.0                     | 11.3               | 101.8                  | 2.71                  | 24.42                     |
| 16.0-17.0    | 376.6                     | 11.7               | 113.5                  | 2.81                  | 27.23                     |
| 17.0-18.0    | 367.7                     | 12.1               | 125.6                  | 2.91                  | 30.15                     |
| 18.0-19.0    | 358.3                     | 12.5               | 138.1                  | 2.99                  | 33.14                     |
| 19.0-20.0    | 348.6                     | 12.8               | 150.8                  | 3.06                  | 36.20                     |
| 20.0-21.0    | 338.3                     | 13.0               | 163.8                  | 3.12                  | 39.32                     |
| 21.0-22.0    | 327.3                     | 13.2               | 177.0                  | 3.16                  | 42.48                     |
| 22.0-23.0    | 315.6                     | 13.2               | 190.2                  | 3.18                  | 45.65                     |
| 23.0-24.0    | 303.0                     | 13.2               | 203.5                  | 3.18                  | 48.83                     |
| 24.0-25.0    | 289.6                     | 13.2               | 216.7                  | 3.16                  | 51.99                     |
| 25.0-26.0    | 275.6                     | 13.0               | 229.7                  | 3.12                  | 55.12                     |
| 26.0-27.0    | 261.0                     | 12.8               | 242.4                  | 3.06                  | 58.18                     |
| 27.0-28.0    | 245.9                     | 12.4               | 254.9                  | 2.99                  | 61.17                     |
| 28.0-29.0    | 230.4                     | 12.1               | 266.9                  | 2.89                  | 64.06                     |
| 29.0-30.0    | 214.8                     | 11.6               | 278.5                  | 2.78                  | 66.85                     |
| 30.0-31.0    | 199.3                     | 11.1               | 289.6                  | 2.66                  | 69.51                     |
| 31.0-32.0    | 184.2                     | 10.6               | 300.2                  | 2.53                  | 72.04                     |
| 32.0-33.0    | 169.2                     | 10.0               | 310.2                  | 2.39                  | 74.43                     |
| 33.0-34.0    | 154.4                     | 9.3                | 319.5                  | 2.24                  | 76.68                     |
| 34.0-35.0    | 140.2                     | 8.7                | 328.2                  | 2.09                  | 78.77                     |
| 35.0-36.0    | 126.7                     | 8.1                | 336.3                  | 1.94                  | 80.70                     |

C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:



## Zonal Lumen (Continue 1)

| Gamma<br>[°] | I <sub>mean</sub><br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 36.0-37.0    | 114.0                     | 7.4                | 343.7                  | 1.78                  | 82.49                     |
| 37.0-38.0    | 102.3                     | 6.8                | 350.5                  | 1.64                  | 84.13                     |
| 38.0-39.0    | 91.5                      | 6.2                | 356.8                  | 1.50                  | 85.62                     |
| 39.0-40.0    | 81.5                      | 5.7                | 362.5                  | 1.36                  | 86.99                     |
| 40.0-41.0    | 72.6                      | 5.2                | 367.6                  | 1.24                  | 88.23                     |
| 41.0-42.0    | 64.5                      | 4.7                | 372.3                  | 1.13                  | 89.35                     |
| 42.0-43.0    | 57.4                      | 4.3                | 376.6                  | 1.02                  | 90.38                     |
| 43.0-44.0    | 50.9                      | 3.8                | 380.4                  | 0.92                  | 91.30                     |
| 44.0-45.0    | 45.1                      | 3.5                | 383.9                  | 0.83                  | 92.13                     |
| 45.0-46.0    | 39.9                      | 3.1                | 387.0                  | 0.75                  | 92.88                     |
| 46.0-47.0    | 35.3                      | 2.8                | 389.8                  | 0.67                  | 93.55                     |
| 47.0-48.0    | 31.3                      | 2.5                | 392.4                  | 0.61                  | 94.16                     |
| 48.0-49.0    | 27.7                      | 2.3                | 394.6                  | 0.55                  | 94.71                     |
| 49.0-50.0    | 24.5                      | 2.0                | 396.7                  | 0.49                  | 95.20                     |
| 50.0-51.0    | 21.7                      | 1.8                | 398.5                  | 0.44                  | 95.64                     |
| 51.0-52.0    | 19.3                      | 1.7                | 400.2                  | 0.40                  | 96.03                     |
| 52.0-53.0    | 17.3                      | 1.5                | 401.7                  | 0.36                  | 96.40                     |
| 53.0-54.0    | 15.5                      | 1.4                | 403.0                  | 0.33                  | 96.72                     |
| 54.0-55.0    | 13.8                      | 1.2                | 404.3                  | 0.30                  | 97.02                     |
| 55.0-56.0    | 12.3                      | 1.1                | 405.4                  | 0.27                  | 97.29                     |
| 56.0-57.0    | 11.0                      | 1.0                | 406.4                  | 0.24                  | 97.53                     |
| 57.0-58.0    | 9.9                       | 0.9                | 407.3                  | 0.22                  | 97.75                     |
| 58.0-59.0    | 9.0                       | 0.8                | 408.1                  | 0.20                  | 97.95                     |
| 59.0-60.0    | 8.3                       | 0.8                | 408.9                  | 0.19                  | 98.13                     |
| 60.0-61.0    | 7.7                       | 0.7                | 409.7                  | 0.18                  | 98.31                     |
| 61.0-62.0    | 7.1                       | 0.7                | 410.3                  | 0.16                  | 98.48                     |
| 62.0-63.0    | 6.5                       | 0.6                | 411.0                  | 0.15                  | 98.63                     |
| 63.0-64.0    | 6.0                       | 0.6                | 411.6                  | 0.14                  | 98.77                     |
| 64.0-65.0    | 5.5                       | 0.5                | 412.1                  | 0.13                  | 98.90                     |
| 65.0-66.0    | 5.0                       | 0.5                | 412.6                  | 0.12                  | 99.02                     |
| 66.0-67.0    | 4.6                       | 0.5                | 413.1                  | 0.11                  | 99.13                     |
| 67.0-68.0    | 4.2                       | 0.4                | 413.5                  | 0.10                  | 99.23                     |
| 68.0-69.0    | 3.8                       | 0.4                | 413.9                  | 0.09                  | 99.33                     |
| 69.0-70.0    | 3.5                       | 0.4                | 414.2                  | 0.09                  | 99.41                     |
| 70.0-71.0    | 3.2                       | 0.3                | 414.6                  | 0.08                  | 99.49                     |
| 71.0-72.0    | 2.9                       | 0.3                | 414.9                  | 0.07                  | 99.56                     |

C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

## Candlepower Table

Unit: cd

| G\C   | C0.0  | C180.0 |  |  |  |  |  |  |  |  |
|-------|-------|--------|--|--|--|--|--|--|--|--|
| G0.0  | 461.1 | 461.1  |  |  |  |  |  |  |  |  |
| G1.0  | 459.1 | 462.3  |  |  |  |  |  |  |  |  |
| G2.0  | 456.2 | 462.8  |  |  |  |  |  |  |  |  |
| G3.0  | 453.0 | 462.3  |  |  |  |  |  |  |  |  |
| G4.0  | 449.2 | 461.7  |  |  |  |  |  |  |  |  |
| G5.0  | 444.1 | 460.5  |  |  |  |  |  |  |  |  |
| G6.0  | 438.2 | 457.2  |  |  |  |  |  |  |  |  |
| G7.0  | 431.8 | 453.0  |  |  |  |  |  |  |  |  |
| G8.0  | 425.2 | 448.7  |  |  |  |  |  |  |  |  |
| G9.0  | 418.1 | 444.1  |  |  |  |  |  |  |  |  |
| G10.0 | 410.4 | 439.2  |  |  |  |  |  |  |  |  |
| G11.0 | 402.5 | 434.1  |  |  |  |  |  |  |  |  |
| G12.0 | 394.0 | 429.0  |  |  |  |  |  |  |  |  |
| G13.0 | 385.1 | 423.5  |  |  |  |  |  |  |  |  |
| G14.0 | 375.7 | 418.3  |  |  |  |  |  |  |  |  |
| G15.0 | 365.4 | 413.2  |  |  |  |  |  |  |  |  |
| G16.0 | 354.1 | 407.6  |  |  |  |  |  |  |  |  |
| G17.0 | 342.1 | 402.5  |  |  |  |  |  |  |  |  |
| G18.0 | 329.0 | 397.3  |  |  |  |  |  |  |  |  |
| G19.0 | 315.5 | 391.7  |  |  |  |  |  |  |  |  |
| G20.0 | 300.9 | 386.4  |  |  |  |  |  |  |  |  |
| G21.0 | 285.8 | 380.1  |  |  |  |  |  |  |  |  |
| G22.0 | 270.1 | 373.3  |  |  |  |  |  |  |  |  |
| G23.0 | 254.1 | 364.9  |  |  |  |  |  |  |  |  |
| G24.0 | 237.5 | 355.4  |  |  |  |  |  |  |  |  |
| G25.0 | 221.1 | 344.4  |  |  |  |  |  |  |  |  |
| G26.0 | 204.7 | 332.2  |  |  |  |  |  |  |  |  |
| G27.0 | 188.1 | 318.9  |  |  |  |  |  |  |  |  |
| G28.0 | 171.8 | 304.7  |  |  |  |  |  |  |  |  |
| G29.0 | 155.9 | 289.1  |  |  |  |  |  |  |  |  |
| G30.0 | 141.3 | 272.8  |  |  |  |  |  |  |  |  |
| G31.0 | 128.0 | 255.4  |  |  |  |  |  |  |  |  |
| G32.0 | 115.8 | 237.5  |  |  |  |  |  |  |  |  |
| G33.0 | 104.3 | 219.1  |  |  |  |  |  |  |  |  |
| G34.0 | 93.7  | 200.6  |  |  |  |  |  |  |  |  |
| G35.0 | 84.3  | 182.3  |  |  |  |  |  |  |  |  |
| G36.0 | 75.5  | 164.9  |  |  |  |  |  |  |  |  |

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## Candlepower Table (Continue 1)

Unit: cd

| G\C   | C0.0 | C180.0 |  |  |  |  |  |  |  |  |
|-------|------|--------|--|--|--|--|--|--|--|--|
| G37.0 | 67.5 | 148.1  |  |  |  |  |  |  |  |  |
| G38.0 | 60.6 | 132.8  |  |  |  |  |  |  |  |  |
| G39.0 | 53.9 | 118.6  |  |  |  |  |  |  |  |  |
| G40.0 | 48.2 | 105.5  |  |  |  |  |  |  |  |  |
| G41.0 | 43.1 | 93.5   |  |  |  |  |  |  |  |  |
| G42.0 | 38.6 | 82.9   |  |  |  |  |  |  |  |  |
| G43.0 | 34.8 | 73.3   |  |  |  |  |  |  |  |  |
| G44.0 | 31.2 | 64.6   |  |  |  |  |  |  |  |  |
| G45.0 | 27.8 | 57.0   |  |  |  |  |  |  |  |  |
| G46.0 | 24.8 | 50.0   |  |  |  |  |  |  |  |  |
| G47.0 | 22.1 | 44.2   |  |  |  |  |  |  |  |  |
| G48.0 | 19.7 | 39.1   |  |  |  |  |  |  |  |  |
| G49.0 | 17.3 | 34.8   |  |  |  |  |  |  |  |  |
| G50.0 | 15.0 | 30.8   |  |  |  |  |  |  |  |  |
| G51.0 | 13.4 | 27.4   |  |  |  |  |  |  |  |  |
| G52.0 | 12.2 | 24.3   |  |  |  |  |  |  |  |  |
| G53.0 | 11.1 | 21.6   |  |  |  |  |  |  |  |  |
| G54.0 | 10.4 | 18.9   |  |  |  |  |  |  |  |  |
| G55.0 | 9.6  | 16.5   |  |  |  |  |  |  |  |  |
| G56.0 | 8.8  | 14.3   |  |  |  |  |  |  |  |  |
| G57.0 | 8.1  | 12.7   |  |  |  |  |  |  |  |  |
| G58.0 | 7.3  | 11.4   |  |  |  |  |  |  |  |  |
| G59.0 | 6.7  | 10.4   |  |  |  |  |  |  |  |  |
| G60.0 | 6.2  | 9.8    |  |  |  |  |  |  |  |  |
| G61.0 | 6.0  | 8.9    |  |  |  |  |  |  |  |  |
| G62.0 | 5.2  | 8.3    |  |  |  |  |  |  |  |  |
| G63.0 | 4.8  | 7.7    |  |  |  |  |  |  |  |  |
| G64.0 | 4.5  | 7.1    |  |  |  |  |  |  |  |  |
| G65.0 | 4.0  | 6.5    |  |  |  |  |  |  |  |  |
| G66.0 | 3.7  | 6.0    |  |  |  |  |  |  |  |  |
| G67.0 | 3.2  | 5.5    |  |  |  |  |  |  |  |  |
| G68.0 | 3.0  | 5.1    |  |  |  |  |  |  |  |  |
| G69.0 | 2.7  | 4.5    |  |  |  |  |  |  |  |  |
| G70.0 | 2.5  | 4.3    |  |  |  |  |  |  |  |  |
| G71.0 | 2.2  | 3.7    |  |  |  |  |  |  |  |  |
| G72.0 | 2.0  | 3.5    |  |  |  |  |  |  |  |  |
| G73.0 | 1.9  | 3.0    |  |  |  |  |  |  |  |  |

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## Unit: cd

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector: