

Report No.: 51.03022 Mini Recessed
Downlight

Test Time: 2024-10-13 18:35

Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.027 A

Power Factor: 0.555

Voltage: 237.1 V

Power: 3.60 W

Photometric Results

CIE Class: Direct

Measurement Flux: 232 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H35.6

Vertical Diffuse Angle(50%): V35.6

Luminaire Efficacy Rating (LER): 64

Max. Intensity: 577.91 cd

Total Rated Lamp Lumens: 232.0 lm

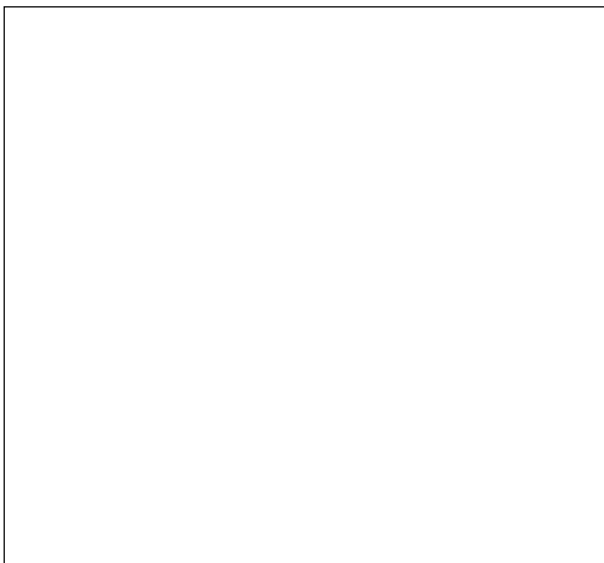
Efficiency: 100%

Upward Ratio: 0%

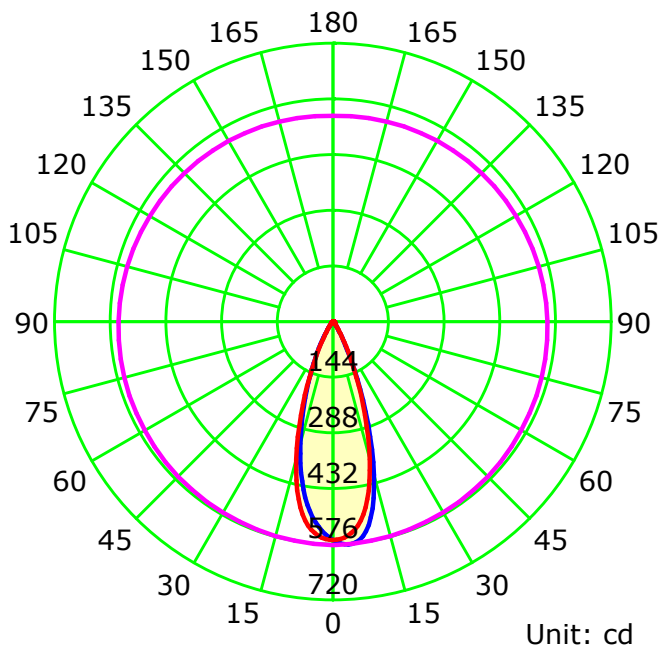
Central Intensity: 564.62 cd

Pos of Max. Intensity: H0 V4

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G4

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

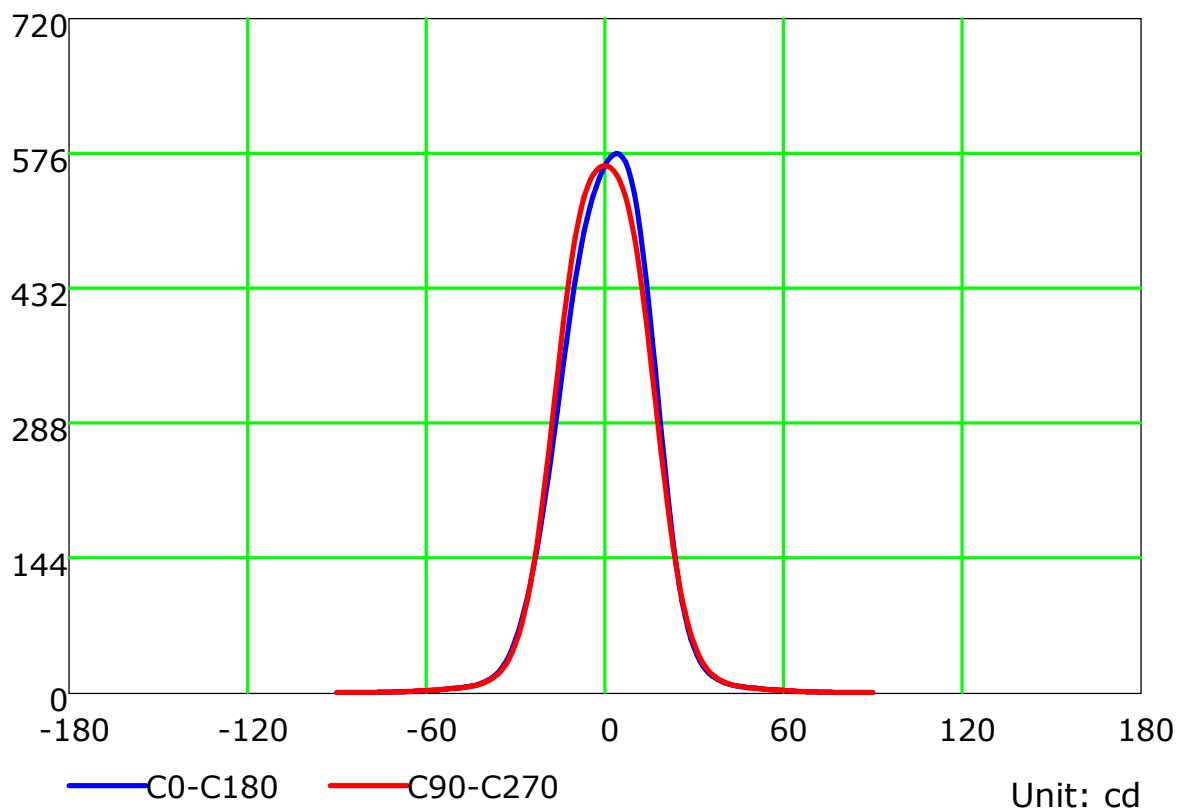
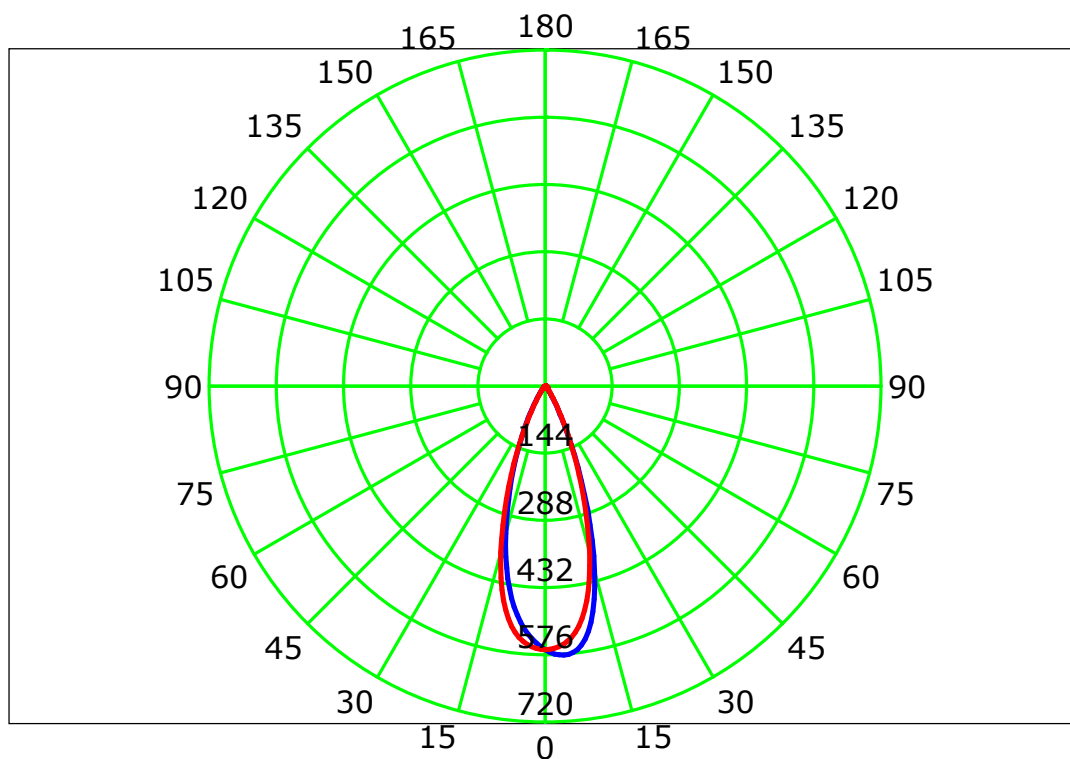
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

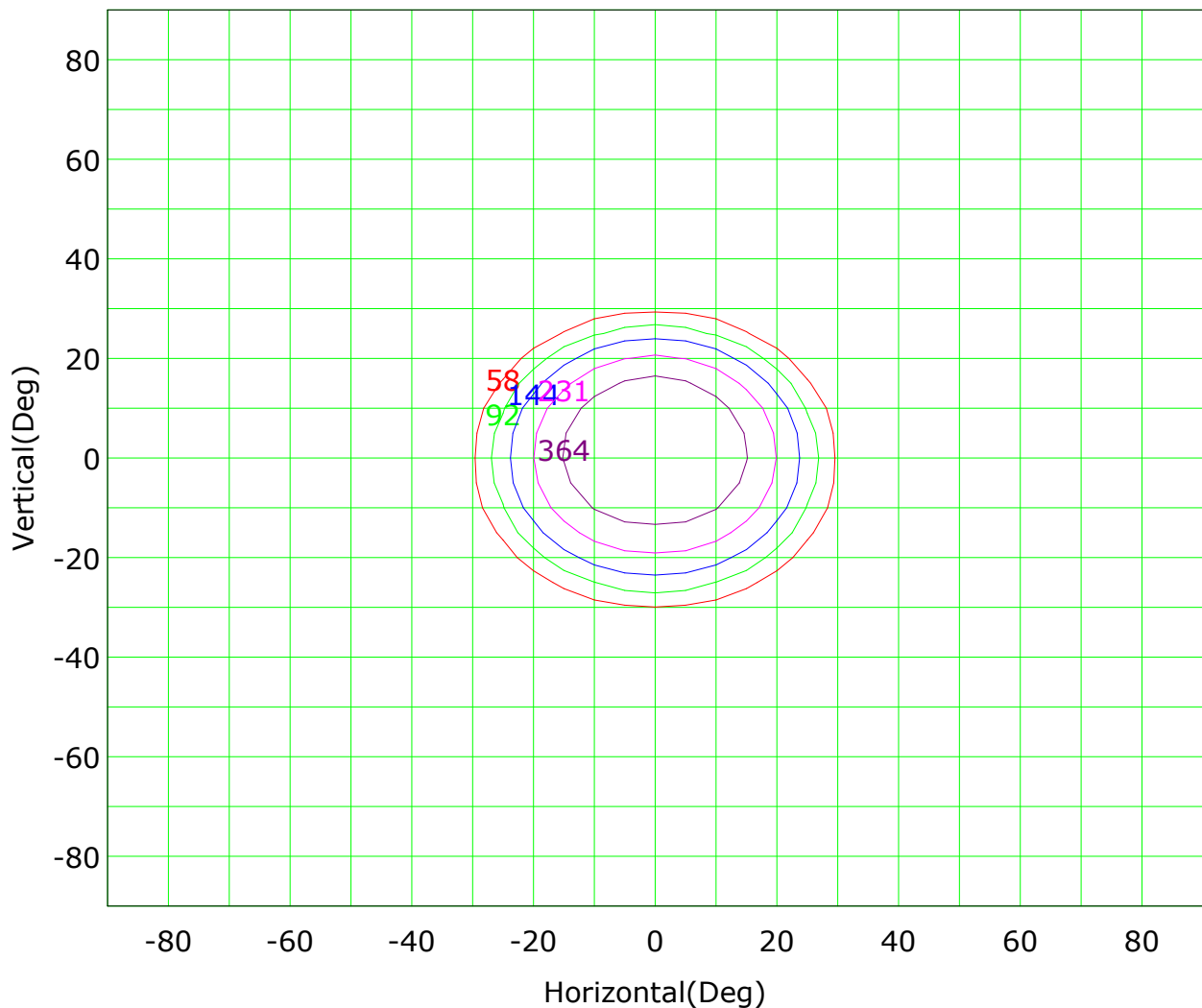
Luminous Intensity Distribution Curve



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%): 578 cd

| | | | |
|---------|--------|---------|--------|
| (10%): | 58 cd | (16%): | 92 cd |
| (25%): | 144 cd | (40%): | 231 cd |
| (63%): | 364 cd | (100%): | 578 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

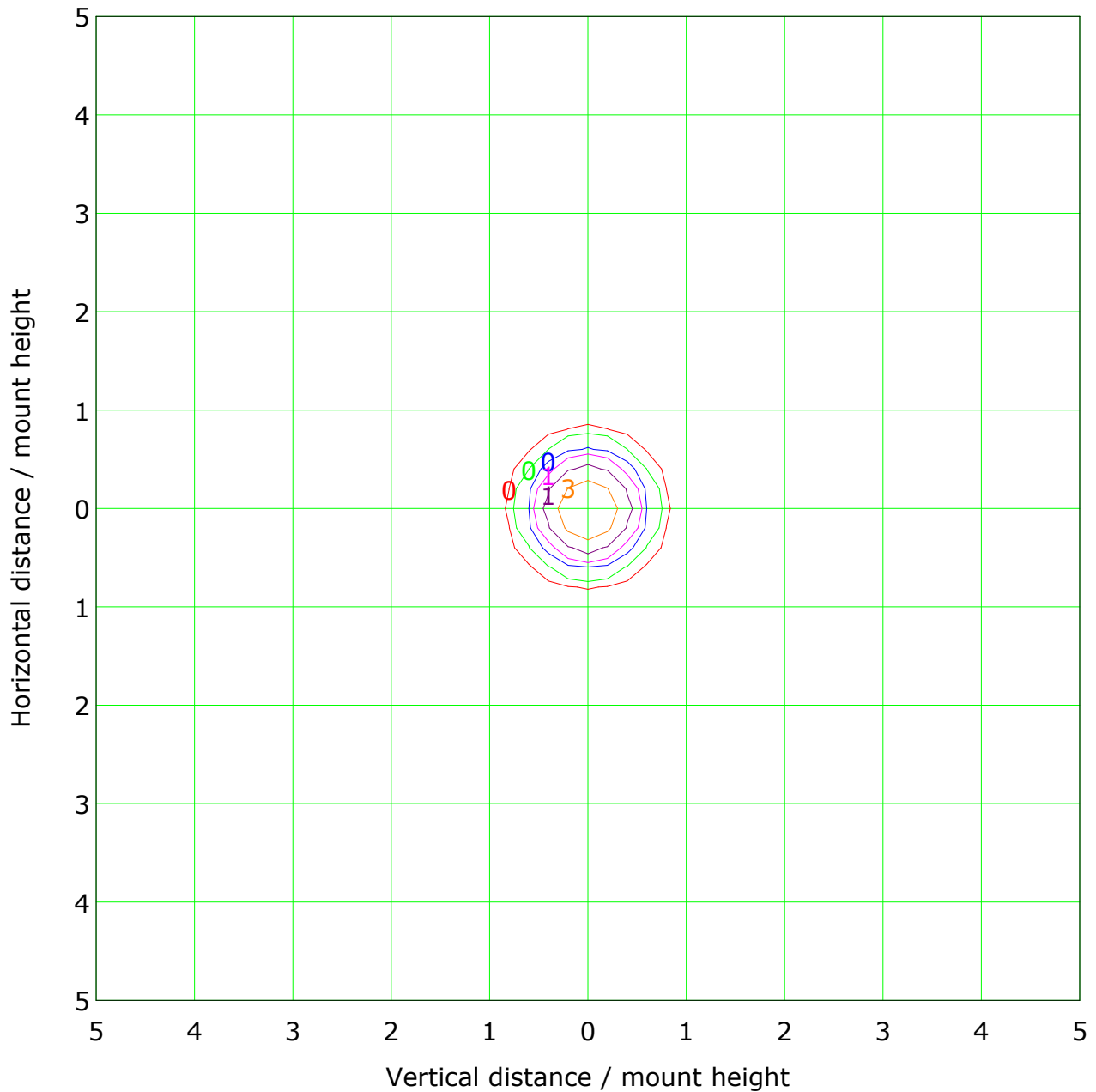
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



| | | | |
|---|------|-----------|------|
| Mounting Height: 10m Max Lux(100%): 6 lx | | | |
| — (1%): | 0 lx | — (2%): | 0 lx |
| — (5%): | 0 lx | — (10%): | 1 lx |
| — (20%): | 1 lx | — (50%): | 3 lx |
| — (100%): | 6 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

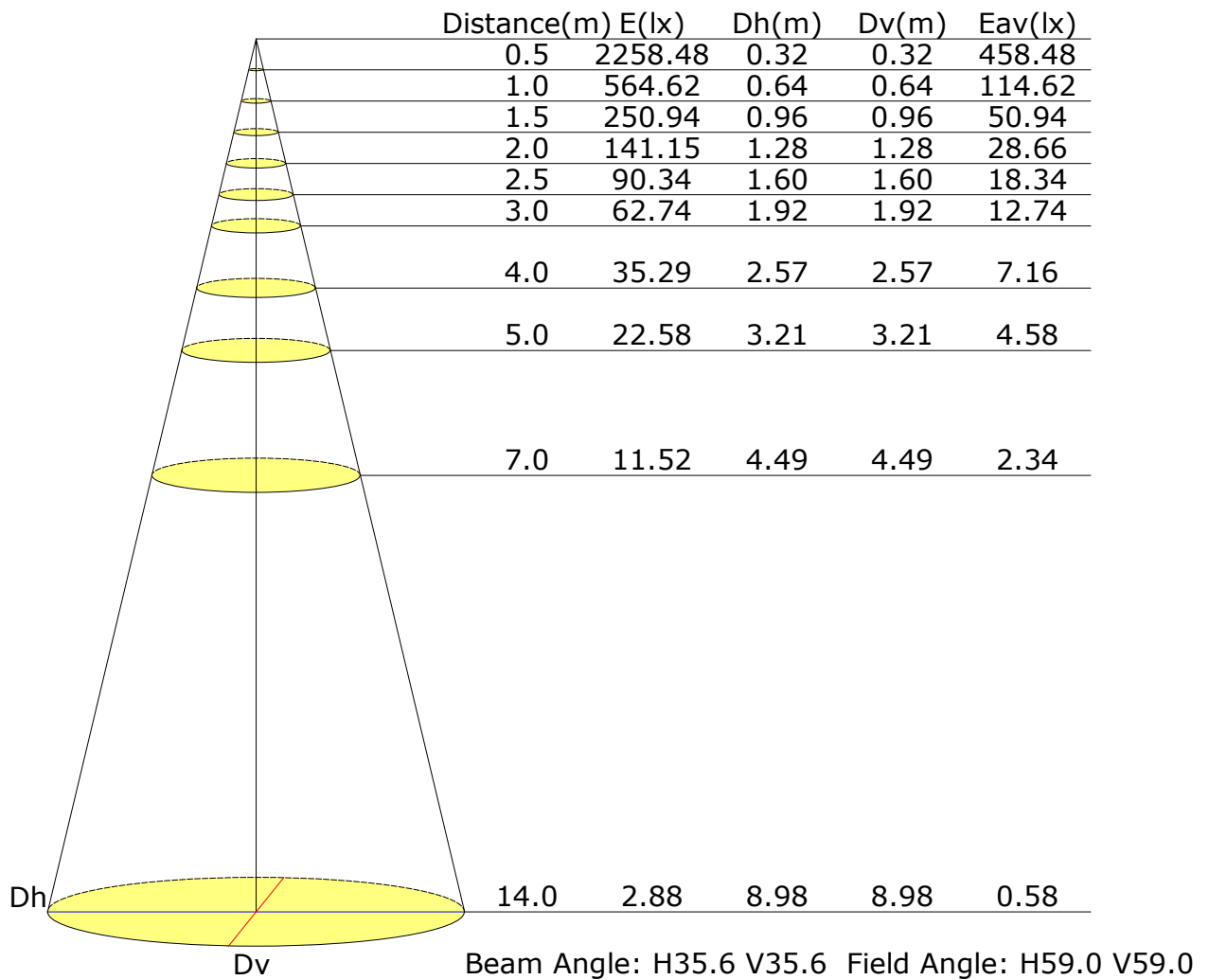
Test Device: CHL-6E

Distance: 3.328 m

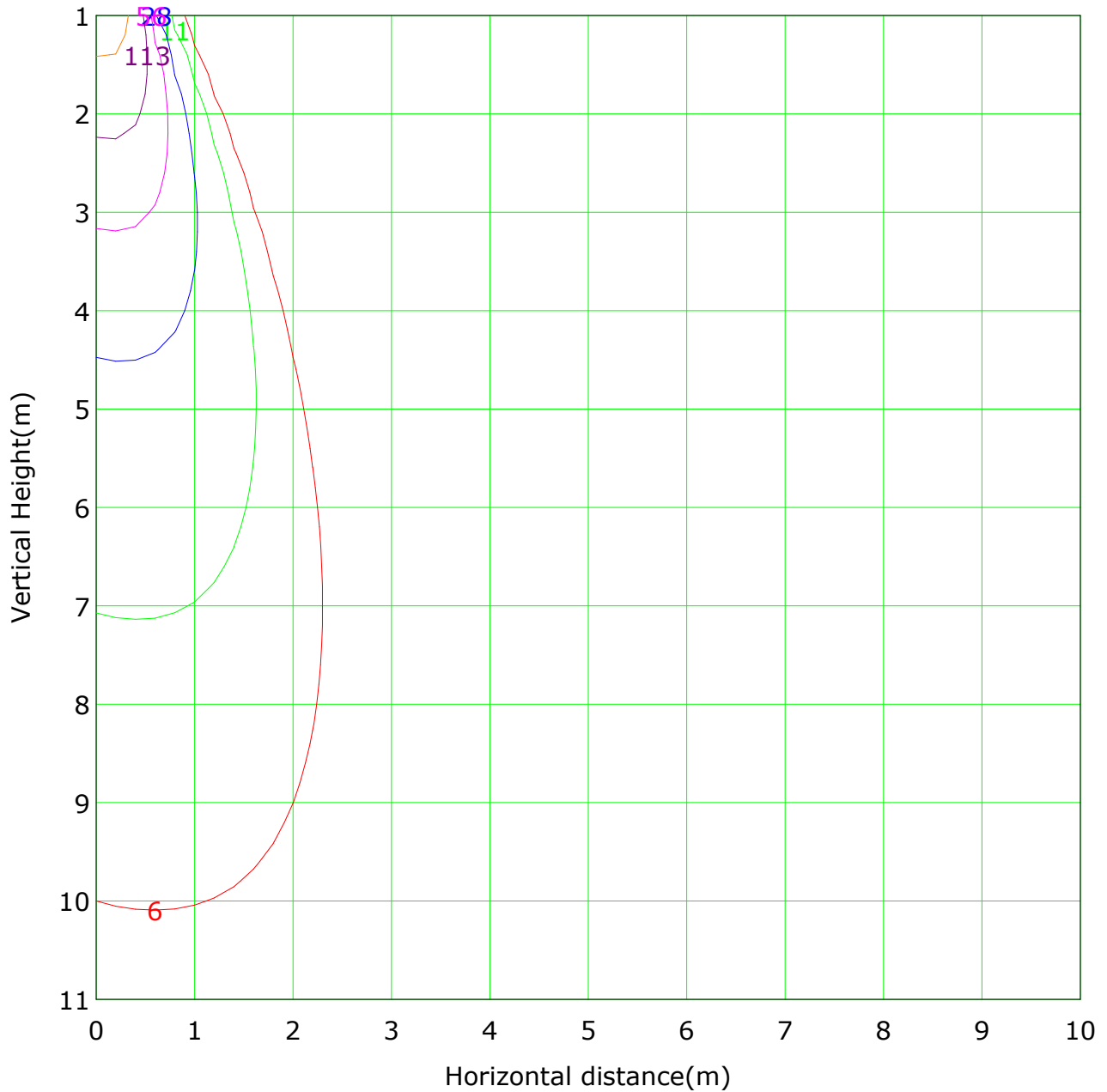
Humidity:

Inspector:

Illuminance at a Distance



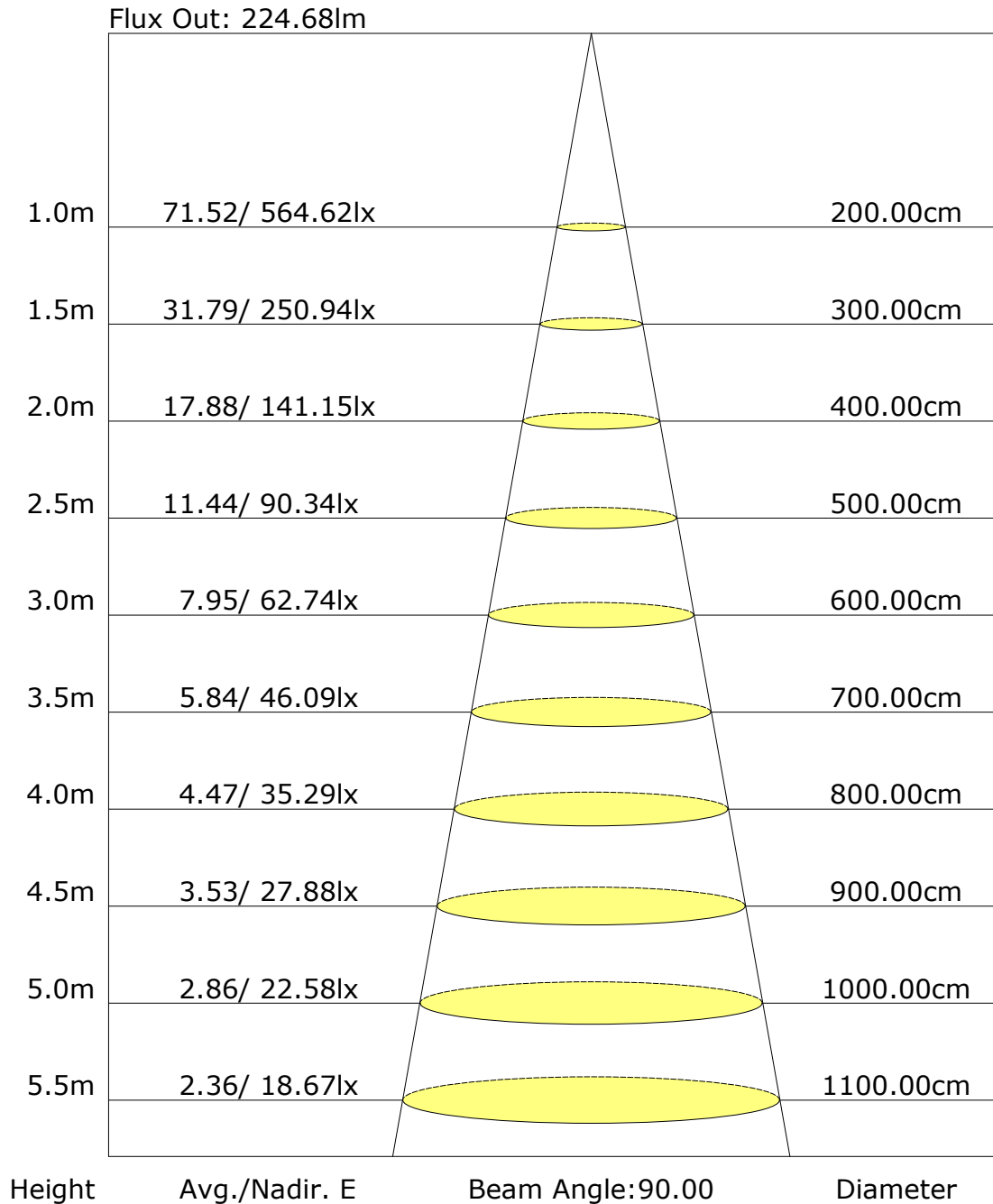
Vertical IsoLux Plot



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 [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 0.0-1.0 | 564.5 | 0.5 | 0.5 | 0.23 | 0.23 |
| 1.0-2.0 | 563.4 | 1.6 | 2.2 | 0.70 | 0.93 |
| 2.0-3.0 | 561.0 | 2.7 | 4.8 | 1.16 | 2.09 |
| 3.0-4.0 | 557.3 | 3.7 | 8.6 | 1.61 | 3.70 |
| 4.0-5.0 | 552.1 | 4.8 | 13.3 | 2.05 | 5.74 |
| 5.0-6.0 | 545.2 | 5.7 | 19.1 | 2.47 | 8.21 |
| 6.0-7.0 | 536.4 | 6.7 | 25.7 | 2.87 | 11.08 |
| 7.0-8.0 | 525.4 | 7.5 | 33.2 | 3.24 | 14.33 |
| 8.0-9.0 | 512.0 | 8.3 | 41.5 | 3.58 | 17.90 |
| 9.0-10.0 | 496.1 | 9.0 | 50.5 | 3.87 | 21.77 |
| 10.0-11.0 | 477.9 | 9.5 | 60.1 | 4.12 | 25.89 |
| 11.0-12.0 | 457.2 | 10.0 | 70.1 | 4.31 | 30.20 |
| 12.0-13.0 | 434.1 | 10.3 | 80.4 | 4.44 | 34.64 |
| 13.0-14.0 | 409.1 | 10.5 | 90.8 | 4.51 | 39.16 |
| 14.0-15.0 | 382.4 | 10.5 | 101.3 | 4.53 | 43.68 |
| 15.0-16.0 | 354.6 | 10.4 | 111.7 | 4.48 | 48.16 |
| 16.0-17.0 | 326.2 | 10.2 | 121.9 | 4.38 | 52.54 |
| 17.0-18.0 | 297.8 | 9.8 | 131.7 | 4.23 | 56.78 |
| 18.0-19.0 | 270.0 | 9.4 | 141.1 | 4.05 | 60.83 |
| 19.0-20.0 | 242.8 | 8.9 | 150.0 | 3.83 | 64.66 |
| 20.0-21.0 | 216.6 | 8.3 | 158.3 | 3.59 | 68.24 |
| 21.0-22.0 | 191.7 | 7.7 | 166.0 | 3.32 | 71.57 |
| 22.0-23.0 | 168.2 | 7.1 | 173.1 | 3.04 | 74.61 |
| 23.0-24.0 | 146.2 | 6.4 | 179.5 | 2.76 | 77.36 |
| 24.0-25.0 | 126.4 | 5.7 | 185.2 | 2.48 | 79.84 |
| 25.0-26.0 | 108.8 | 5.1 | 190.4 | 2.21 | 82.06 |
| 26.0-27.0 | 93.1 | 4.6 | 194.9 | 1.96 | 84.02 |
| 27.0-28.0 | 79.5 | 4.0 | 198.9 | 1.73 | 85.76 |
| 28.0-29.0 | 67.5 | 3.5 | 202.5 | 1.52 | 87.28 |
| 29.0-30.0 | 57.3 | 3.1 | 205.6 | 1.33 | 88.61 |
| 30.0-31.0 | 48.5 | 2.7 | 208.3 | 1.16 | 89.77 |
| 31.0-32.0 | 41.0 | 2.3 | 210.6 | 1.01 | 90.79 |
| 32.0-33.0 | 34.6 | 2.0 | 212.6 | 0.88 | 91.67 |
| 33.0-34.0 | 29.3 | 1.8 | 214.4 | 0.77 | 92.43 |
| 34.0-35.0 | 24.9 | 1.5 | 216.0 | 0.67 | 93.10 |
| 35.0-36.0 | 21.4 | 1.4 | 217.3 | 0.59 | 93.68 |

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 [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 36.0-37.0 | 18.5 | 1.2 | 218.5 | 0.52 | 94.20 |
| 37.0-38.0 | 16.0 | 1.1 | 219.6 | 0.46 | 94.67 |
| 38.0-39.0 | 14.0 | 1.0 | 220.6 | 0.41 | 95.08 |
| 39.0-40.0 | 12.3 | 0.9 | 221.4 | 0.37 | 95.45 |
| 40.0-41.0 | 10.9 | 0.8 | 222.2 | 0.33 | 95.78 |
| 41.0-42.0 | 9.7 | 0.7 | 222.9 | 0.30 | 96.09 |
| 42.0-43.0 | 8.7 | 0.6 | 223.5 | 0.28 | 96.37 |
| 43.0-44.0 | 7.8 | 0.6 | 224.1 | 0.25 | 96.62 |
| 44.0-45.0 | 7.1 | 0.5 | 224.7 | 0.24 | 96.86 |
| 45.0-46.0 | 6.6 | 0.5 | 225.2 | 0.22 | 97.08 |
| 46.0-47.0 | 6.1 | 0.5 | 225.7 | 0.21 | 97.29 |
| 47.0-48.0 | 5.7 | 0.5 | 226.1 | 0.20 | 97.49 |
| 48.0-49.0 | 5.3 | 0.4 | 226.6 | 0.19 | 97.67 |
| 49.0-50.0 | 5.0 | 0.4 | 227.0 | 0.18 | 97.85 |
| 50.0-51.0 | 4.7 | 0.4 | 227.4 | 0.17 | 98.02 |
| 51.0-52.0 | 4.3 | 0.4 | 227.8 | 0.16 | 98.18 |
| 52.0-53.0 | 4.1 | 0.4 | 228.1 | 0.15 | 98.34 |
| 53.0-54.0 | 3.8 | 0.3 | 228.5 | 0.14 | 98.48 |
| 54.0-55.0 | 3.5 | 0.3 | 228.8 | 0.13 | 98.62 |
| 55.0-56.0 | 3.2 | 0.3 | 229.1 | 0.12 | 98.74 |
| 56.0-57.0 | 2.9 | 0.3 | 229.3 | 0.12 | 98.85 |
| 57.0-58.0 | 2.8 | 0.3 | 229.6 | 0.11 | 98.96 |
| 58.0-59.0 | 2.6 | 0.2 | 229.8 | 0.11 | 99.07 |
| 59.0-60.0 | 2.4 | 0.2 | 230.0 | 0.10 | 99.17 |
| 60.0-61.0 | 2.2 | 0.2 | 230.3 | 0.09 | 99.26 |
| 61.0-62.0 | 2.0 | 0.2 | 230.5 | 0.08 | 99.34 |
| 62.0-63.0 | 1.8 | 0.2 | 230.6 | 0.08 | 99.42 |
| 63.0-64.0 | 1.7 | 0.2 | 230.8 | 0.07 | 99.49 |
| 64.0-65.0 | 1.5 | 0.1 | 230.9 | 0.06 | 99.55 |
| 65.0-66.0 | 1.3 | 0.1 | 231.1 | 0.06 | 99.61 |
| 66.0-67.0 | 1.1 | 0.1 | 231.2 | 0.05 | 99.66 |
| 67.0-68.0 | 1.0 | 0.1 | 231.3 | 0.04 | 99.70 |
| 68.0-69.0 | 1.0 | 0.1 | 231.4 | 0.04 | 99.75 |
| 69.0-70.0 | 1.0 | 0.1 | 231.5 | 0.04 | 99.79 |
| 70.0-71.0 | 0.9 | 0.1 | 231.6 | 0.04 | 99.83 |
| 71.0-72.0 | 0.7 | 0.1 | 231.7 | 0.03 | 99.86 |

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 | 564.6 | 564.6 | | | | | | | | |
| G1.0 | 570.2 | 558.4 | | | | | | | | |
| G2.0 | 574.3 | 550.8 | | | | | | | | |
| G3.0 | 576.8 | 542.2 | | | | | | | | |
| G4.0 | 577.9 | 532.3 | | | | | | | | |
| G5.0 | 577.0 | 521.2 | | | | | | | | |
| G6.0 | 574.1 | 508.6 | | | | | | | | |
| G7.0 | 568.7 | 494.4 | | | | | | | | |
| G8.0 | 560.5 | 478.2 | | | | | | | | |
| G9.0 | 548.8 | 460.3 | | | | | | | | |
| G10.0 | 534.0 | 441.2 | | | | | | | | |
| G11.0 | 515.7 | 420.6 | | | | | | | | |
| G12.0 | 493.7 | 398.6 | | | | | | | | |
| G13.0 | 468.7 | 375.5 | | | | | | | | |
| G14.0 | 440.6 | 351.7 | | | | | | | | |
| G15.0 | 410.4 | 327.0 | | | | | | | | |
| G16.0 | 378.6 | 302.4 | | | | | | | | |
| G17.0 | 345.6 | 278.2 | | | | | | | | |
| G18.0 | 312.6 | 254.9 | | | | | | | | |
| G19.0 | 280.2 | 232.2 | | | | | | | | |
| G20.0 | 248.4 | 210.6 | | | | | | | | |
| G21.0 | 217.6 | 189.9 | | | | | | | | |
| G22.0 | 188.8 | 170.4 | | | | | | | | |
| G23.0 | 161.6 | 151.8 | | | | | | | | |
| G24.0 | 137.2 | 134.3 | | | | | | | | |
| G25.0 | 115.9 | 118.2 | | | | | | | | |
| G26.0 | 97.6 | 103.3 | | | | | | | | |
| G27.0 | 81.8 | 89.9 | | | | | | | | |
| G28.0 | 68.5 | 77.6 | | | | | | | | |
| G29.0 | 57.2 | 66.7 | | | | | | | | |
| G30.0 | 48.0 | 57.1 | | | | | | | | |
| G31.0 | 40.2 | 48.7 | | | | | | | | |
| G32.0 | 33.9 | 41.1 | | | | | | | | |
| G33.0 | 28.7 | 34.8 | | | | | | | | |
| G34.0 | 24.3 | 29.5 | | | | | | | | |
| G35.0 | 20.9 | 25.0 | | | | | | | | |
| G36.0 | 18.0 | 21.6 | | | | | | | | |

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 | 15.9 | 18.5 | | | | | | | | |
| G38.0 | 13.9 | 15.9 | | | | | | | | |
| G39.0 | 12.4 | 13.9 | | | | | | | | |
| G40.0 | 10.9 | 12.2 | | | | | | | | |
| G41.0 | 9.7 | 10.8 | | | | | | | | |
| G42.0 | 8.8 | 9.6 | | | | | | | | |
| G43.0 | 7.9 | 8.4 | | | | | | | | |
| G44.0 | 7.3 | 7.4 | | | | | | | | |
| G45.0 | 6.8 | 6.9 | | | | | | | | |
| G46.0 | 6.3 | 6.2 | | | | | | | | |
| G47.0 | 6.0 | 6.0 | | | | | | | | |
| G48.0 | 5.5 | 5.5 | | | | | | | | |
| G49.0 | 5.2 | 5.0 | | | | | | | | |
| G50.0 | 5.0 | 4.7 | | | | | | | | |
| G51.0 | 4.5 | 4.5 | | | | | | | | |
| G52.0 | 4.2 | 4.2 | | | | | | | | |
| G53.0 | 4.0 | 4.0 | | | | | | | | |
| G54.0 | 3.6 | 3.7 | | | | | | | | |
| G55.0 | 3.3 | 3.2 | | | | | | | | |
| G56.0 | 3.1 | 3.0 | | | | | | | | |
| G57.0 | 3.0 | 2.6 | | | | | | | | |
| G58.0 | 2.9 | 2.6 | | | | | | | | |
| G59.0 | 2.7 | 2.4 | | | | | | | | |
| G60.0 | 2.5 | 2.1 | | | | | | | | |
| G61.0 | 2.2 | 2.0 | | | | | | | | |
| G62.0 | 2.0 | 1.9 | | | | | | | | |
| G63.0 | 1.9 | 1.6 | | | | | | | | |
| G64.0 | 1.6 | 1.6 | | | | | | | | |
| G65.0 | 1.4 | 1.4 | | | | | | | | |
| G66.0 | 1.4 | 1.1 | | | | | | | | |
| G67.0 | 1.1 | 1.0 | | | | | | | | |
| G68.0 | 1.0 | 1.0 | | | | | | | | |
| G69.0 | 1.0 | 1.0 | | | | | | | | |
| G70.0 | 1.0 | 0.9 | | | | | | | | |
| G71.0 | 0.9 | 0.9 | | | | | | | | |
| G72.0 | 0.6 | 0.6 | | | | | | | | |
| G73.0 | 0.6 | 0.5 | | | | | | | | |

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: