

Report No.: 55.05015 Mine Recessed
Downlight

Test Time: 2024-09-29 20:46

Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.081 A

Power Factor: 0.618

Voltage: 231.6 V

Power: 11.70 W

Photometric Results

CIE Class: Direct

Measurement Flux: 984.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H23.3

Vertical Diffuse Angle(50%): V23.3

Luminaire Efficacy Rating (LER): 84

Max. Intensity: 4198.69 cd

Total Rated Lamp Lumens: 984.7 lm

Efficiency: 100%

Upward Ratio: 0%

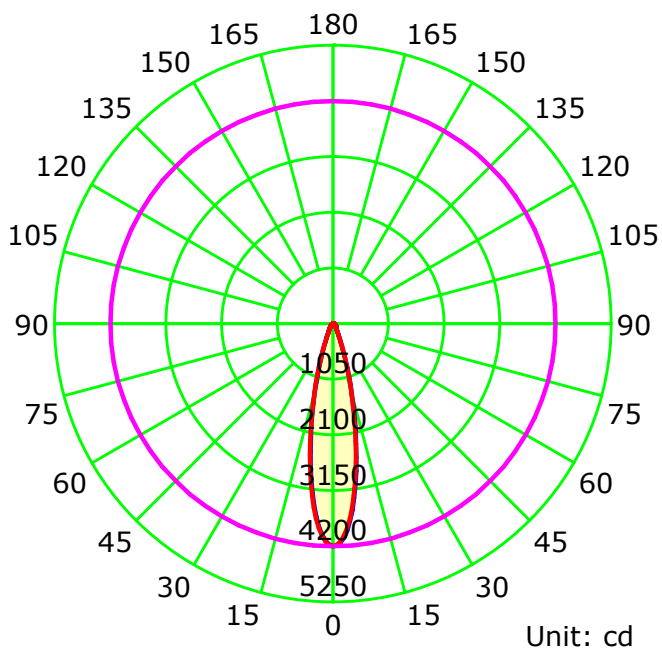
Central Intensity: 4198.69 cd

Pos of Max. Intensity: H0 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G0

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

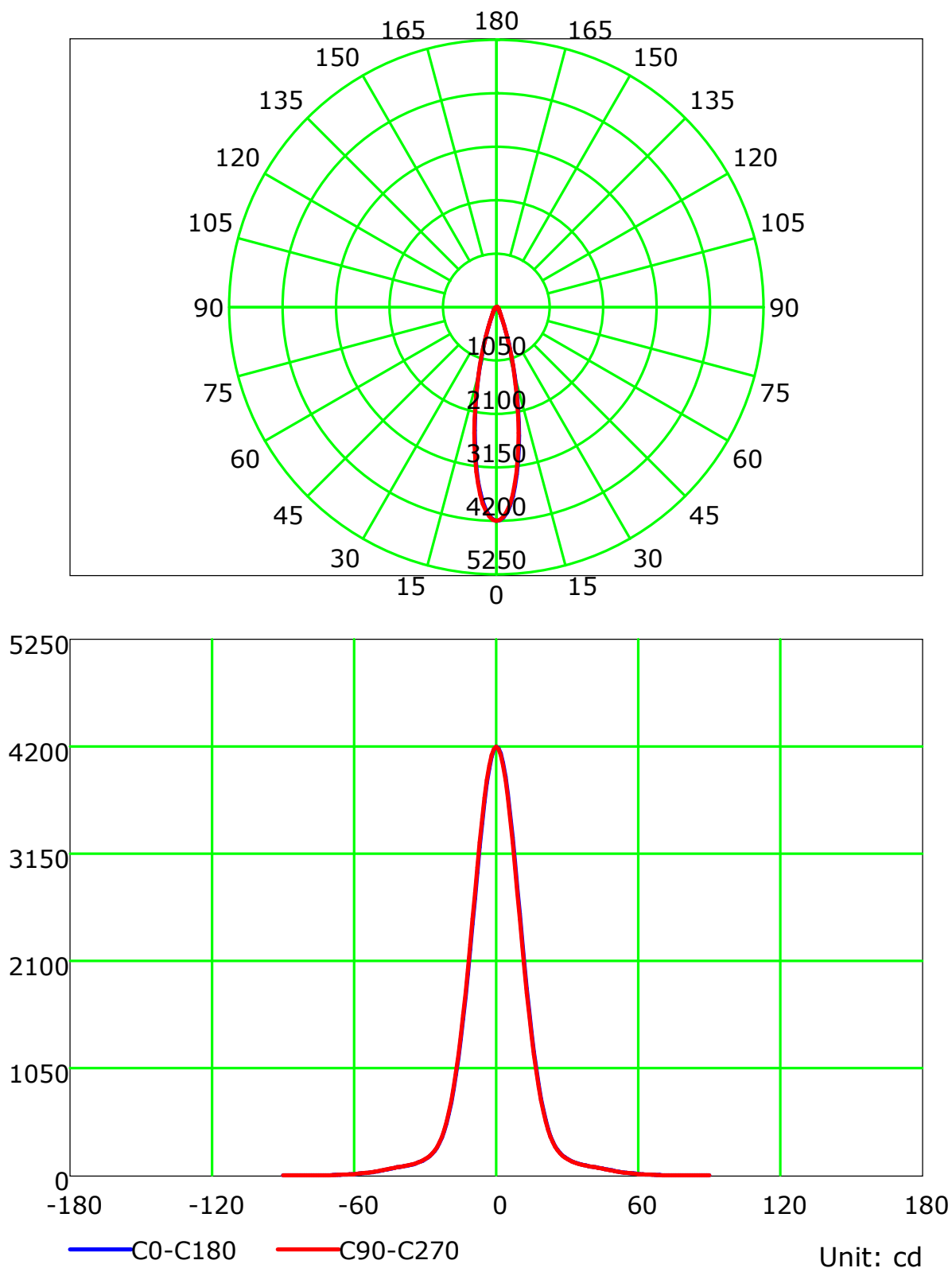
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

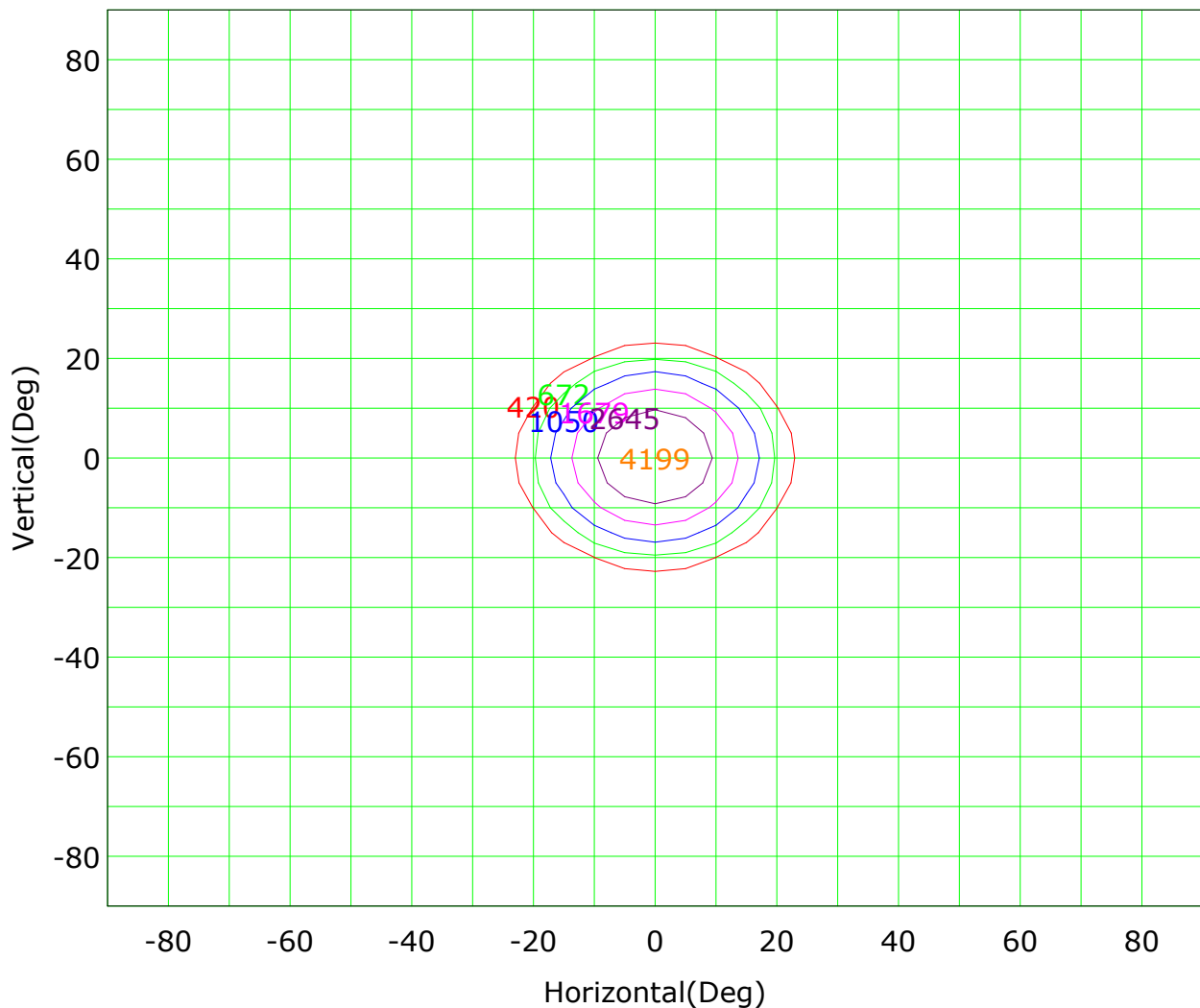
Luminous Intensity Distribution Curve



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%): 4199 cd

| | |
|-----------------|-----------------|
| (10%): 420 cd | (16%): 672 cd |
| (25%): 1050 cd | (40%): 1679 cd |
| (63%): 2645 cd | (100%): 4199 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

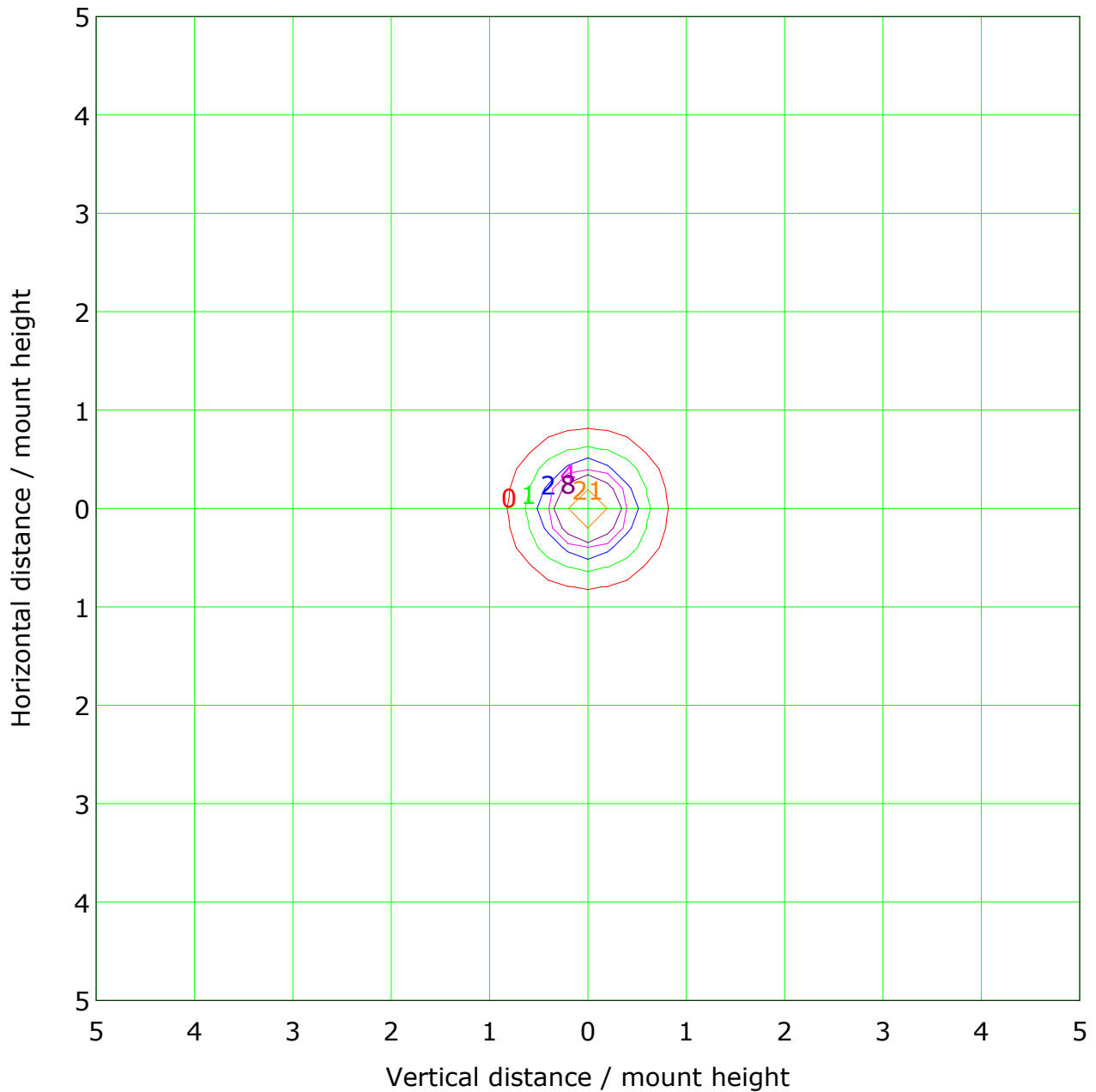
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



| | | | |
|----------------------|-------|----------------------|-------|
| Mounting Height: 10m | | Max Lux(100%): 42 lx | |
| (1%): | 0 lx | (2%): | 1 lx |
| (5%): | 2 lx | (10%): | 4 lx |
| (20%): | 8 lx | (50%): | 21 lx |
| (100%): | 42 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

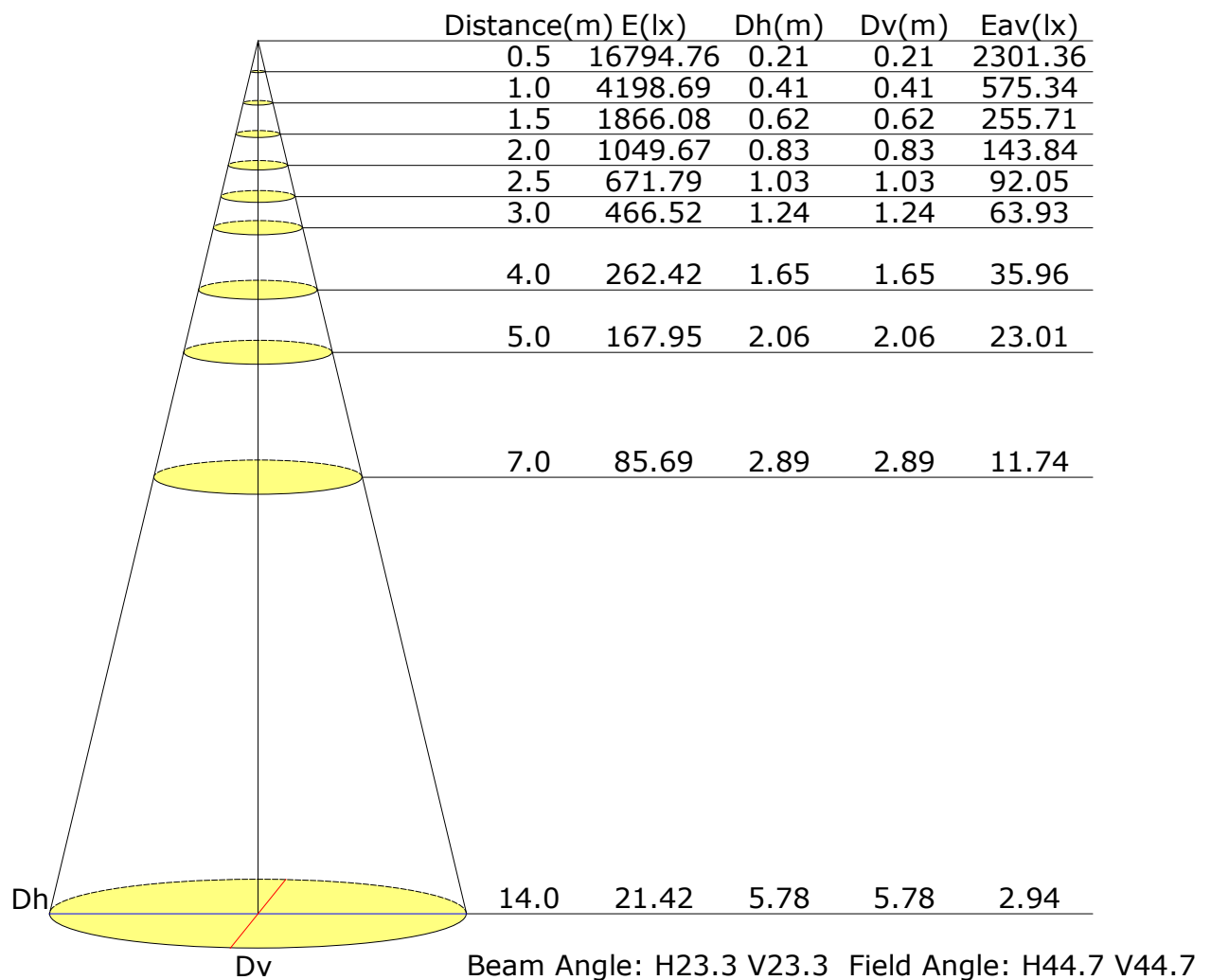
Test Device: CHL-6E

Distance: 3.328 m

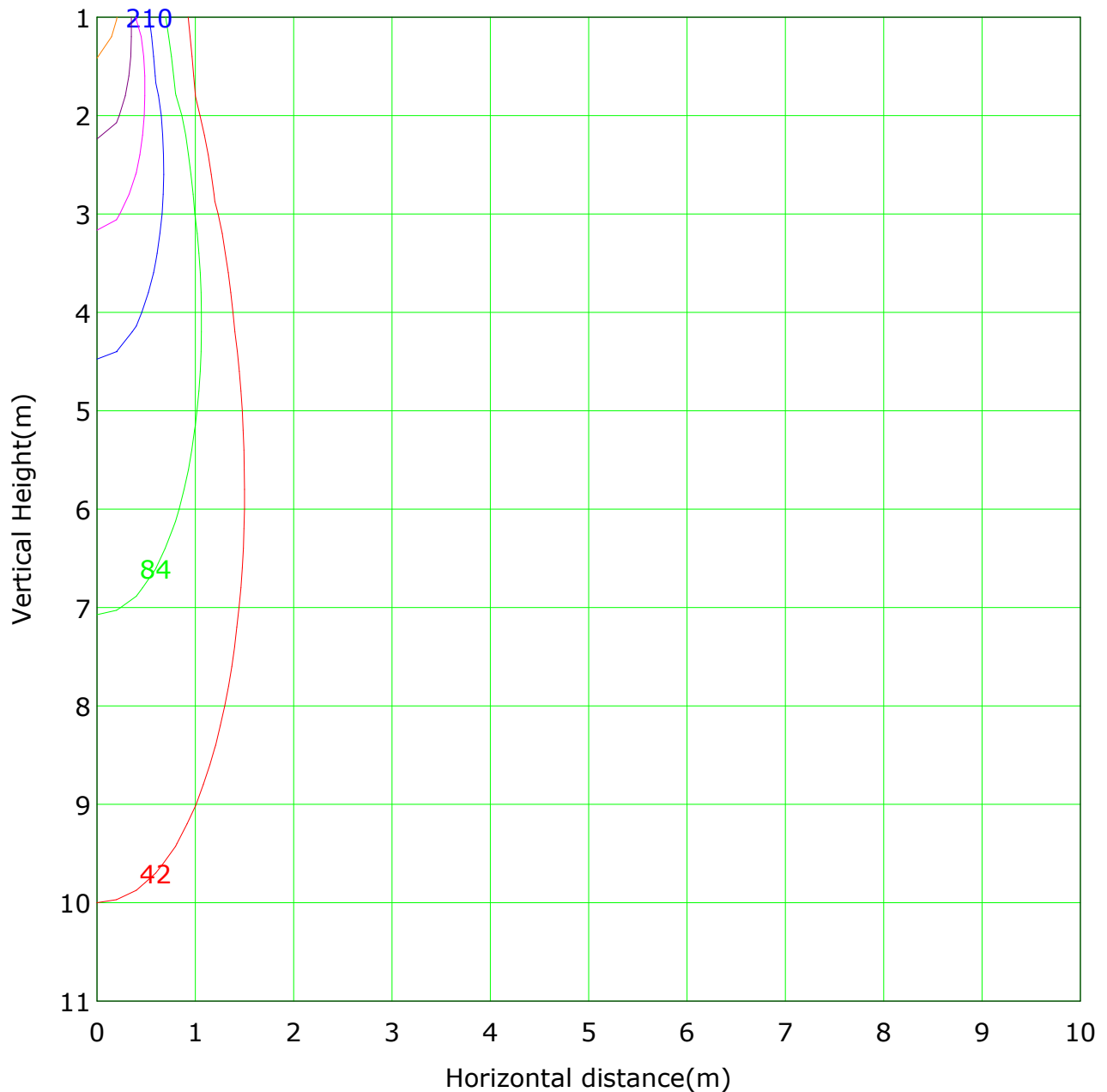
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



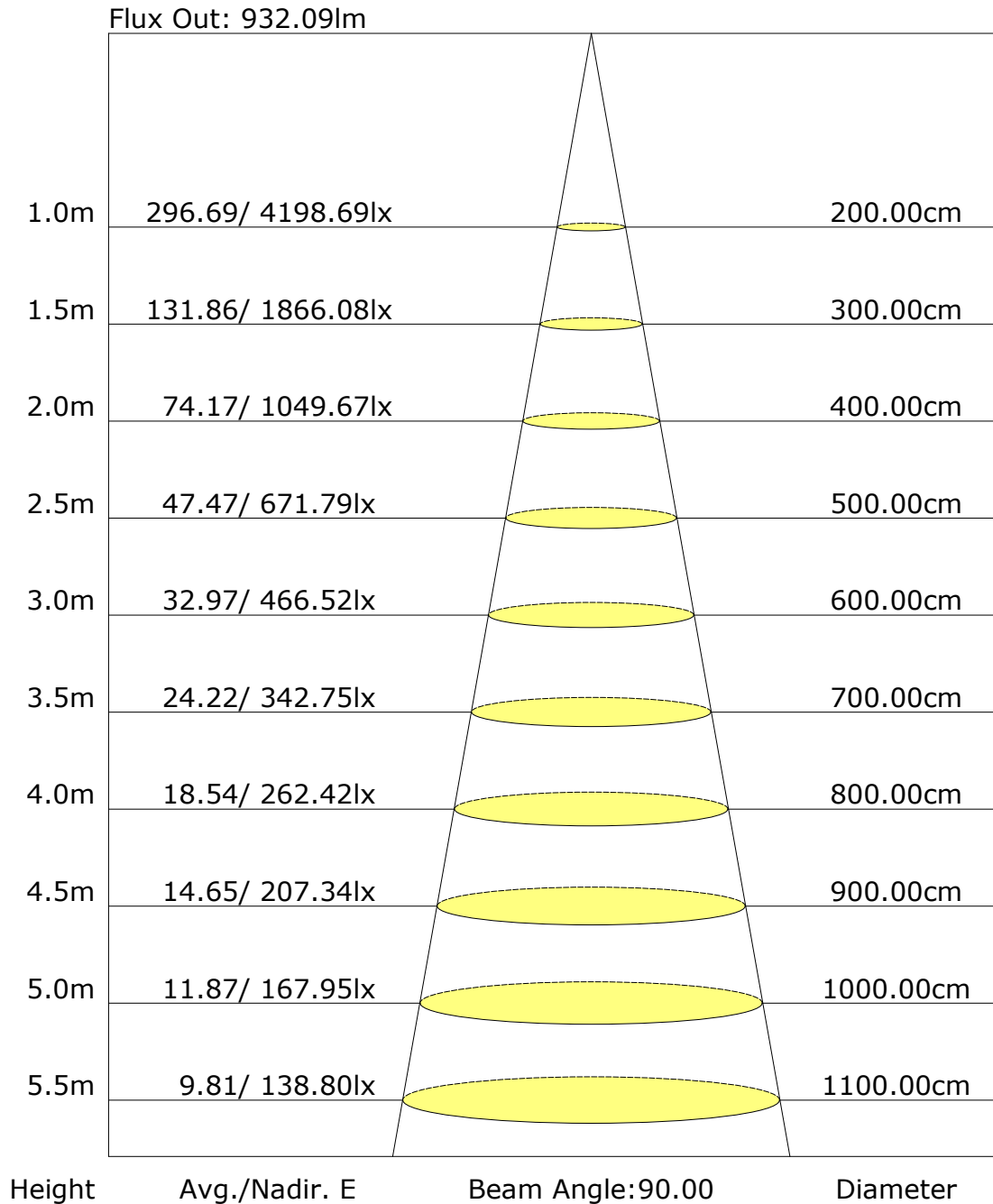
Lowest(m): 1m Highest(m): 11 Max Lux: 4199

| | |
|-----------------|-----------------|
| (1%): 42 lx | (2%): 84 lx |
| (5%): 210 lx | (10%): 420 lx |
| (20%): 840 lx | (50%): 2099 lx |
| (100%): 4199 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 [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 0.0-1.0 | 4187.5 | 4.0 | 4.0 | 0.41 | 0.41 |
| 1.0-2.0 | 4145.1 | 11.9 | 15.9 | 1.21 | 1.62 |
| 2.0-3.0 | 4062.8 | 19.4 | 35.3 | 1.97 | 3.59 |
| 3.0-4.0 | 3941.3 | 26.4 | 61.7 | 2.68 | 6.27 |
| 4.0-5.0 | 3782.9 | 32.5 | 94.3 | 3.31 | 9.57 |
| 5.0-6.0 | 3591.9 | 37.8 | 132.0 | 3.83 | 13.41 |
| 6.0-7.0 | 3374.4 | 41.9 | 173.9 | 4.25 | 17.66 |
| 7.0-8.0 | 3137.8 | 44.9 | 218.8 | 4.56 | 22.22 |
| 8.0-9.0 | 2889.7 | 46.8 | 265.7 | 4.76 | 26.98 |
| 9.0-10.0 | 2637.9 | 47.7 | 313.4 | 4.85 | 31.83 |
| 10.0-11.0 | 2386.1 | 47.7 | 361.1 | 4.84 | 36.67 |
| 11.0-12.0 | 2139.6 | 46.8 | 407.9 | 4.75 | 41.42 |
| 12.0-13.0 | 1903.0 | 45.2 | 453.0 | 4.59 | 46.01 |
| 13.0-14.0 | 1677.7 | 42.9 | 496.0 | 4.36 | 50.37 |
| 14.0-15.0 | 1467.9 | 40.3 | 536.3 | 4.09 | 54.46 |
| 15.0-16.0 | 1275.0 | 37.4 | 573.7 | 3.79 | 58.26 |
| 16.0-17.0 | 1098.3 | 34.2 | 607.9 | 3.47 | 61.73 |
| 17.0-18.0 | 940.0 | 31.0 | 638.9 | 3.15 | 64.88 |
| 18.0-19.0 | 800.0 | 27.8 | 666.7 | 2.83 | 67.70 |
| 19.0-20.0 | 677.5 | 24.8 | 691.5 | 2.52 | 70.22 |
| 20.0-21.0 | 572.5 | 22.0 | 713.5 | 2.23 | 72.46 |
| 21.0-22.0 | 484.3 | 19.5 | 733.0 | 1.98 | 74.43 |
| 22.0-23.0 | 410.5 | 17.2 | 750.2 | 1.75 | 76.18 |
| 23.0-24.0 | 349.7 | 15.3 | 765.5 | 1.55 | 77.73 |
| 24.0-25.0 | 300.8 | 13.7 | 779.1 | 1.39 | 79.12 |
| 25.0-26.0 | 261.5 | 12.3 | 791.5 | 1.25 | 80.38 |
| 26.0-27.0 | 230.0 | 11.3 | 802.7 | 1.14 | 81.52 |
| 27.0-28.0 | 204.1 | 10.3 | 813.1 | 1.05 | 82.57 |
| 28.0-29.0 | 184.5 | 9.7 | 822.7 | 0.98 | 83.55 |
| 29.0-30.0 | 168.6 | 9.1 | 831.8 | 0.92 | 84.47 |
| 30.0-31.0 | 154.0 | 8.6 | 840.4 | 0.87 | 85.34 |
| 31.0-32.0 | 142.1 | 8.1 | 848.6 | 0.83 | 86.17 |
| 32.0-33.0 | 132.8 | 7.8 | 856.4 | 0.79 | 86.97 |
| 33.0-34.0 | 124.0 | 7.5 | 863.9 | 0.76 | 87.73 |
| 34.0-35.0 | 115.9 | 7.2 | 871.1 | 0.73 | 88.46 |
| 35.0-36.0 | 109.1 | 6.9 | 878.0 | 0.71 | 89.16 |

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 | 103.2 | 6.7 | 884.8 | 0.68 | 89.85 |
| 37.0-38.0 | 98.2 | 6.6 | 891.3 | 0.67 | 90.51 |
| 38.0-39.0 | 93.2 | 6.4 | 897.7 | 0.65 | 91.16 |
| 39.0-40.0 | 88.2 | 6.2 | 903.8 | 0.62 | 91.78 |
| 40.0-41.0 | 84.1 | 6.0 | 909.8 | 0.61 | 92.39 |
| 41.0-42.0 | 81.0 | 5.9 | 915.7 | 0.60 | 92.99 |
| 42.0-43.0 | 77.0 | 5.7 | 921.4 | 0.58 | 93.57 |
| 43.0-44.0 | 72.3 | 5.5 | 926.9 | 0.55 | 94.12 |
| 44.0-45.0 | 67.9 | 5.2 | 932.1 | 0.53 | 94.65 |
| 45.0-46.0 | 62.6 | 4.9 | 937.0 | 0.50 | 95.15 |
| 46.0-47.0 | 58.3 | 4.6 | 941.6 | 0.47 | 95.62 |
| 47.0-48.0 | 53.9 | 4.4 | 946.0 | 0.44 | 96.07 |
| 48.0-49.0 | 49.2 | 4.0 | 950.0 | 0.41 | 96.48 |
| 49.0-50.0 | 44.3 | 3.7 | 953.7 | 0.37 | 96.85 |
| 50.0-51.0 | 39.6 | 3.3 | 957.1 | 0.34 | 97.19 |
| 51.0-52.0 | 35.8 | 3.1 | 960.1 | 0.31 | 97.50 |
| 52.0-53.0 | 31.8 | 2.8 | 962.9 | 0.28 | 97.78 |
| 53.0-54.0 | 28.7 | 2.5 | 965.4 | 0.26 | 98.04 |
| 54.0-55.0 | 26.5 | 2.4 | 967.8 | 0.24 | 98.28 |
| 55.0-56.0 | 24.0 | 2.2 | 970.0 | 0.22 | 98.50 |
| 56.0-57.0 | 21.2 | 1.9 | 971.9 | 0.20 | 98.70 |
| 57.0-58.0 | 19.6 | 1.8 | 973.7 | 0.18 | 98.88 |
| 58.0-59.0 | 17.8 | 1.7 | 975.4 | 0.17 | 99.05 |
| 59.0-60.0 | 14.3 | 1.4 | 976.7 | 0.14 | 99.19 |
| 60.0-61.0 | 11.8 | 1.1 | 977.9 | 0.11 | 99.30 |
| 61.0-62.0 | 11.2 | 1.1 | 979.0 | 0.11 | 99.41 |
| 62.0-63.0 | 10.6 | 1.0 | 980.0 | 0.10 | 99.52 |
| 63.0-64.0 | 9.7 | 0.9 | 980.9 | 0.10 | 99.61 |
| 64.0-65.0 | 8.7 | 0.9 | 981.8 | 0.09 | 99.70 |
| 65.0-66.0 | 7.5 | 0.7 | 982.5 | 0.08 | 99.78 |
| 66.0-67.0 | 6.5 | 0.7 | 983.2 | 0.07 | 99.84 |
| 67.0-68.0 | 5.3 | 0.5 | 983.7 | 0.05 | 99.90 |
| 68.0-69.0 | 4.4 | 0.4 | 984.2 | 0.05 | 99.94 |
| 69.0-70.0 | 3.1 | 0.3 | 984.5 | 0.03 | 99.98 |
| 70.0-71.0 | 1.6 | 0.2 | 984.7 | 0.02 | 99.99 |
| 71.0-72.0 | 0.6 | 0.1 | 984.7 | 0.01 | 100.00 |

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 | 4198.7 | 4198.7 | | | | | | | | |
| G1.0 | 4183.7 | 4168.8 | | | | | | | | |
| G2.0 | 4131.4 | 4096.5 | | | | | | | | |
| G3.0 | 4036.6 | 3986.8 | | | | | | | | |
| G4.0 | 3903.2 | 3838.4 | | | | | | | | |
| G5.0 | 3733.7 | 3656.4 | | | | | | | | |
| G6.0 | 3531.7 | 3445.7 | | | | | | | | |
| G7.0 | 3308.6 | 3211.4 | | | | | | | | |
| G8.0 | 3068.0 | 2963.3 | | | | | | | | |
| G9.0 | 2816.2 | 2711.4 | | | | | | | | |
| G10.0 | 2564.4 | 2459.6 | | | | | | | | |
| G11.0 | 2307.5 | 2212.8 | | | | | | | | |
| G12.0 | 2063.2 | 1974.7 | | | | | | | | |
| G13.0 | 1827.6 | 1746.6 | | | | | | | | |
| G14.0 | 1605.7 | 1530.9 | | | | | | | | |
| G15.0 | 1398.7 | 1336.4 | | | | | | | | |
| G16.0 | 1210.5 | 1154.4 | | | | | | | | |
| G17.0 | 1039.7 | 988.6 | | | | | | | | |
| G18.0 | 887.6 | 844.0 | | | | | | | | |
| G19.0 | 753.0 | 715.6 | | | | | | | | |
| G20.0 | 637.0 | 604.6 | | | | | | | | |
| G21.0 | 538.5 | 509.9 | | | | | | | | |
| G22.0 | 453.8 | 435.1 | | | | | | | | |
| G23.0 | 384.0 | 369.0 | | | | | | | | |
| G24.0 | 329.1 | 316.6 | | | | | | | | |
| G25.0 | 284.2 | 273.0 | | | | | | | | |
| G26.0 | 249.3 | 239.4 | | | | | | | | |
| G27.0 | 219.4 | 211.9 | | | | | | | | |
| G28.0 | 195.7 | 189.5 | | | | | | | | |
| G29.0 | 179.5 | 173.3 | | | | | | | | |
| G30.0 | 163.3 | 158.3 | | | | | | | | |
| G31.0 | 149.6 | 144.6 | | | | | | | | |
| G32.0 | 139.6 | 134.6 | | | | | | | | |
| G33.0 | 129.6 | 127.2 | | | | | | | | |
| G34.0 | 122.2 | 117.2 | | | | | | | | |
| G35.0 | 114.7 | 109.7 | | | | | | | | |
| G36.0 | 108.5 | 103.5 | | | | | | | | |

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:

Candlepower Table (Continue 1)

Unit: cd

| G\C | C0.0 | C180.0 | | | | | | | | |
|-------|-------|--------|--|--|--|--|--|--|--|--|
| G37.0 | 102.2 | 98.5 | | | | | | | | |
| G38.0 | 98.5 | 93.5 | | | | | | | | |
| G39.0 | 91.0 | 89.8 | | | | | | | | |
| G40.0 | 86.0 | 86.0 | | | | | | | | |
| G41.0 | 83.5 | 81.0 | | | | | | | | |
| G42.0 | 79.8 | 79.8 | | | | | | | | |
| G43.0 | 74.8 | 73.6 | | | | | | | | |
| G44.0 | 71.1 | 69.8 | | | | | | | | |
| G45.0 | 67.3 | 63.6 | | | | | | | | |
| G46.0 | 61.1 | 58.6 | | | | | | | | |
| G47.0 | 57.3 | 56.1 | | | | | | | | |
| G48.0 | 53.6 | 48.6 | | | | | | | | |
| G49.0 | 49.9 | 44.9 | | | | | | | | |
| G50.0 | 42.4 | 39.9 | | | | | | | | |
| G51.0 | 38.7 | 37.4 | | | | | | | | |
| G52.0 | 34.9 | 32.4 | | | | | | | | |
| G53.0 | 29.9 | 29.9 | | | | | | | | |
| G54.0 | 28.7 | 26.2 | | | | | | | | |
| G55.0 | 26.2 | 24.9 | | | | | | | | |
| G56.0 | 22.4 | 22.4 | | | | | | | | |
| G57.0 | 20.0 | 20.0 | | | | | | | | |
| G58.0 | 20.0 | 18.7 | | | | | | | | |
| G59.0 | 18.7 | 13.7 | | | | | | | | |
| G60.0 | 13.7 | 11.2 | | | | | | | | |
| G61.0 | 11.2 | 11.2 | | | | | | | | |
| G62.0 | 11.2 | 11.2 | | | | | | | | |
| G63.0 | 10.0 | 10.0 | | | | | | | | |
| G64.0 | 10.0 | 8.7 | | | | | | | | |
| G65.0 | 7.5 | 8.7 | | | | | | | | |
| G66.0 | 7.5 | 6.2 | | | | | | | | |
| G67.0 | 6.2 | 6.2 | | | | | | | | |
| G68.0 | 3.7 | 5.0 | | | | | | | | |
| G69.0 | 5.0 | 3.7 | | | | | | | | |
| G70.0 | 2.5 | 1.3 | | | | | | | | |
| G71.0 | 1.3 | 1.3 | | | | | | | | |
| G72.0 | 0.0 | 0.0 | | | | | | | | |
| G73.0 | 0.0 | 0.0 | | | | | | | | |

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: