

Report No.:

Test Time: 2024-08-28 14:18

Luminaire Property

Luminaire Category:

Luminaire Description: 51.04519 12D

Current: 0.028 A

Power Factor: 0.477

Voltage: 219.6 V

Power: 3.00 W

Photometric Results

CIE Class: Direct

Measurement Flux: 223.4 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H16.4

Vertical Diffuse Angle(50%): V16.4

Luminaire Efficacy Rating (LER): 74

Max. Intensity: 1434.28 cd

Total Rated Lamp Lumens: 223.4 lm

Efficiency: 100%

Upward Ratio: 0%

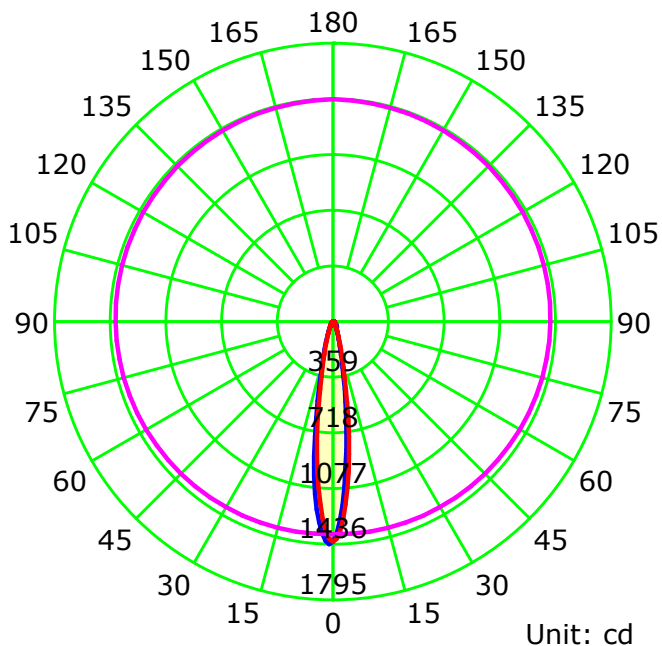
Central Intensity: 1419.37 cd

Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G1

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

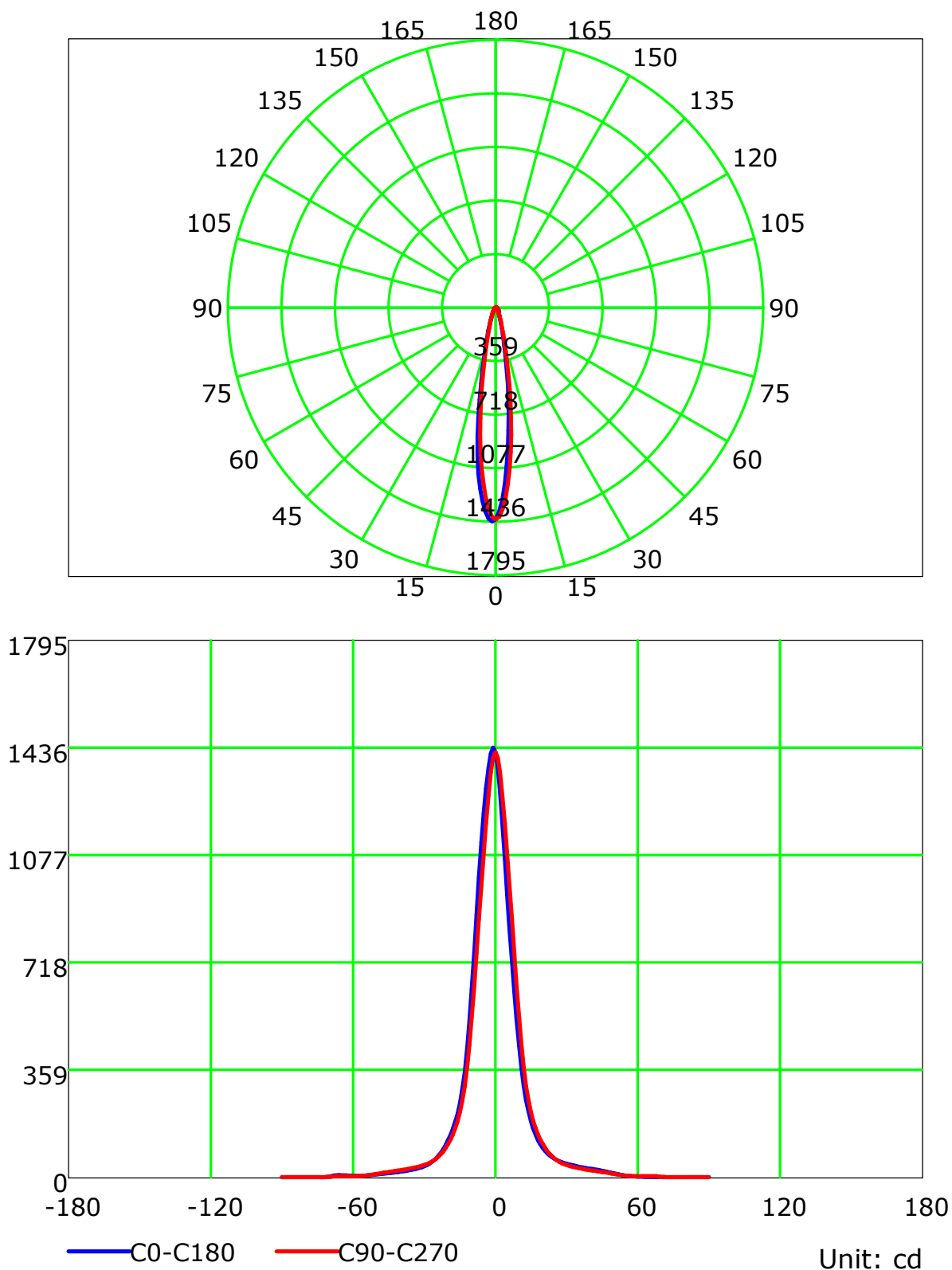
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

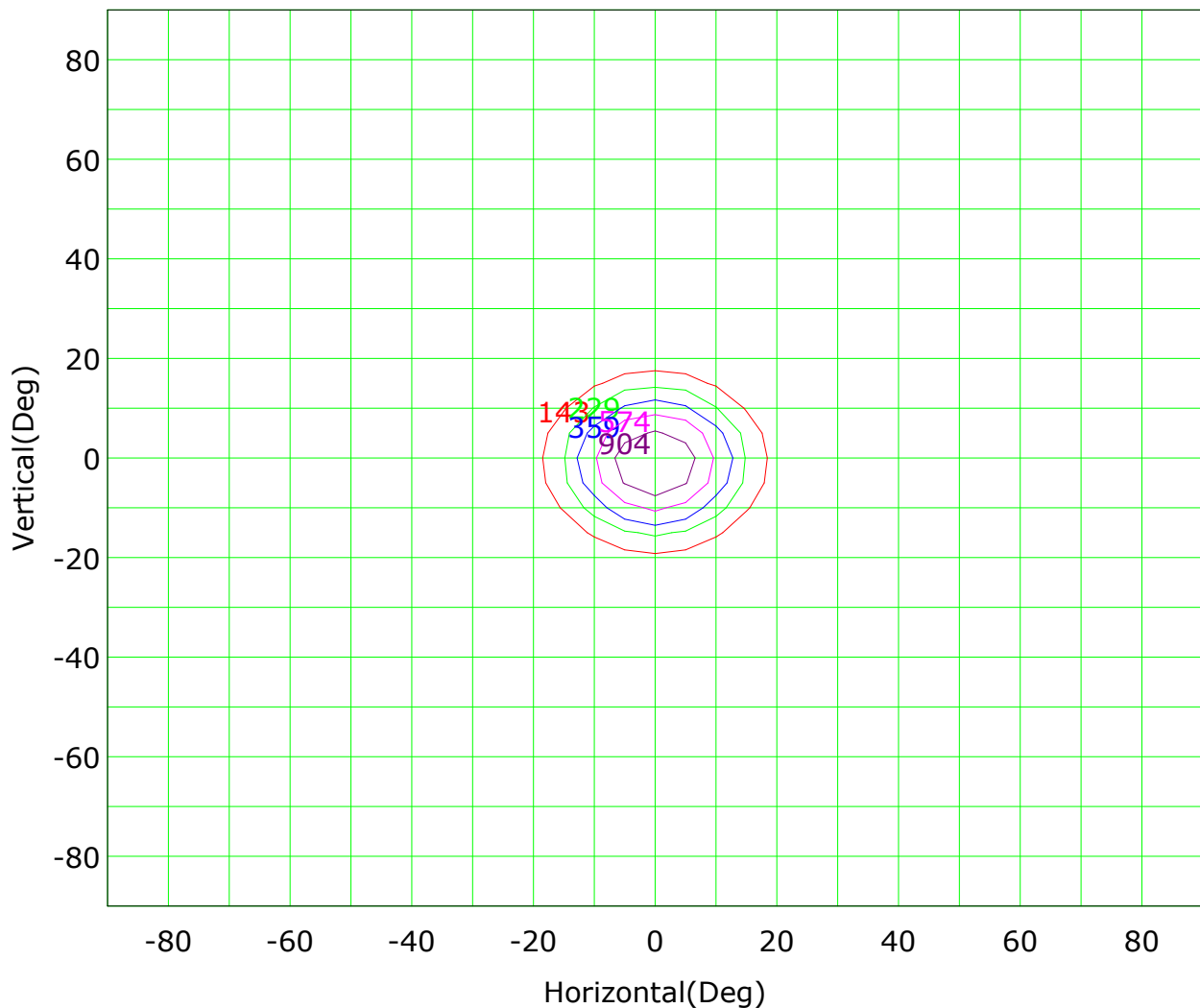
Luminous Intensity Distribution Curve



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%): 1434 cd

| | |
|----------------|-----------------|
| (10%): 143 cd | (16%): 229 cd |
| (25%): 359 cd | (40%): 574 cd |
| (63%): 904 cd | (100%): 1434 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

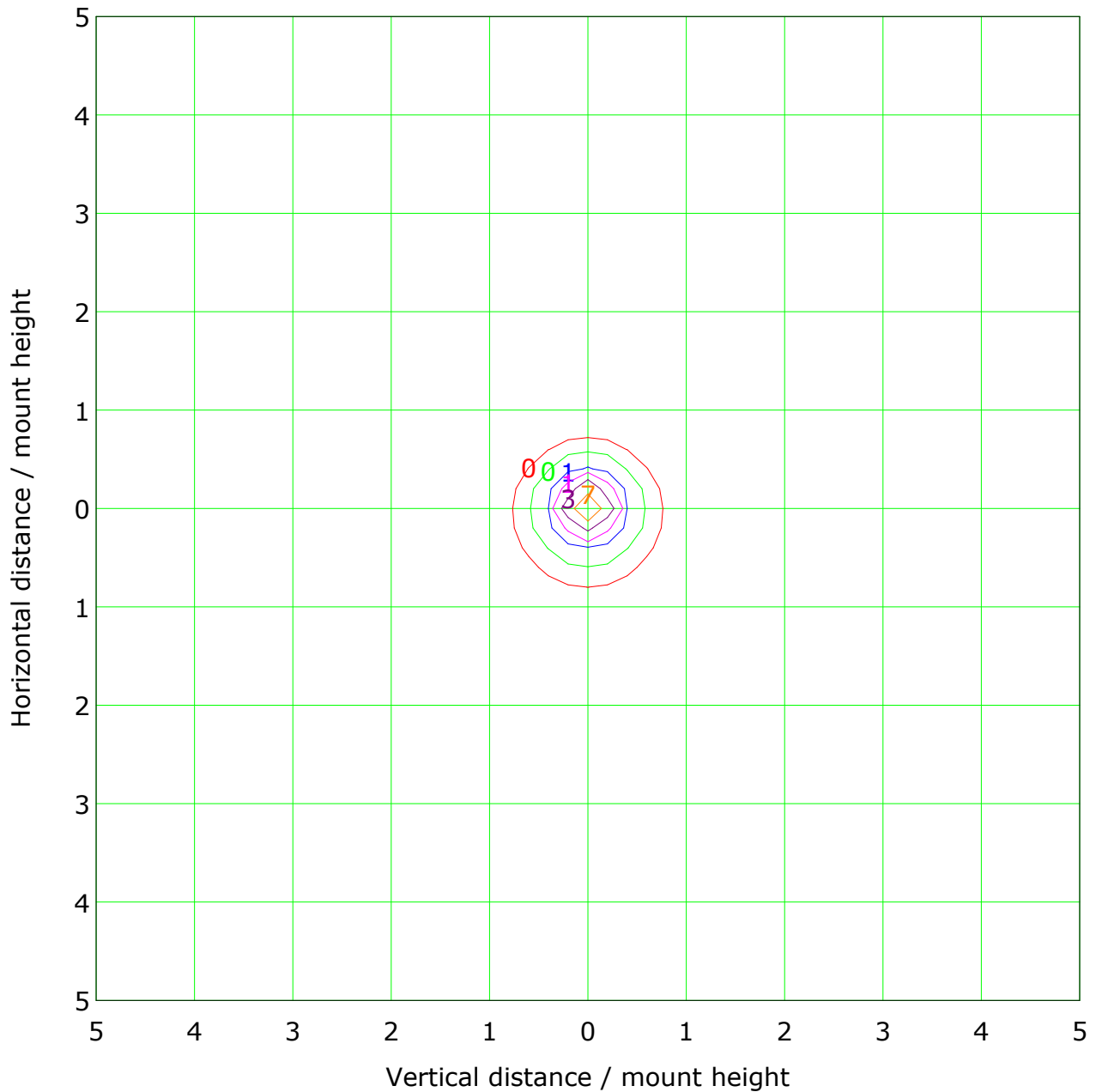
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

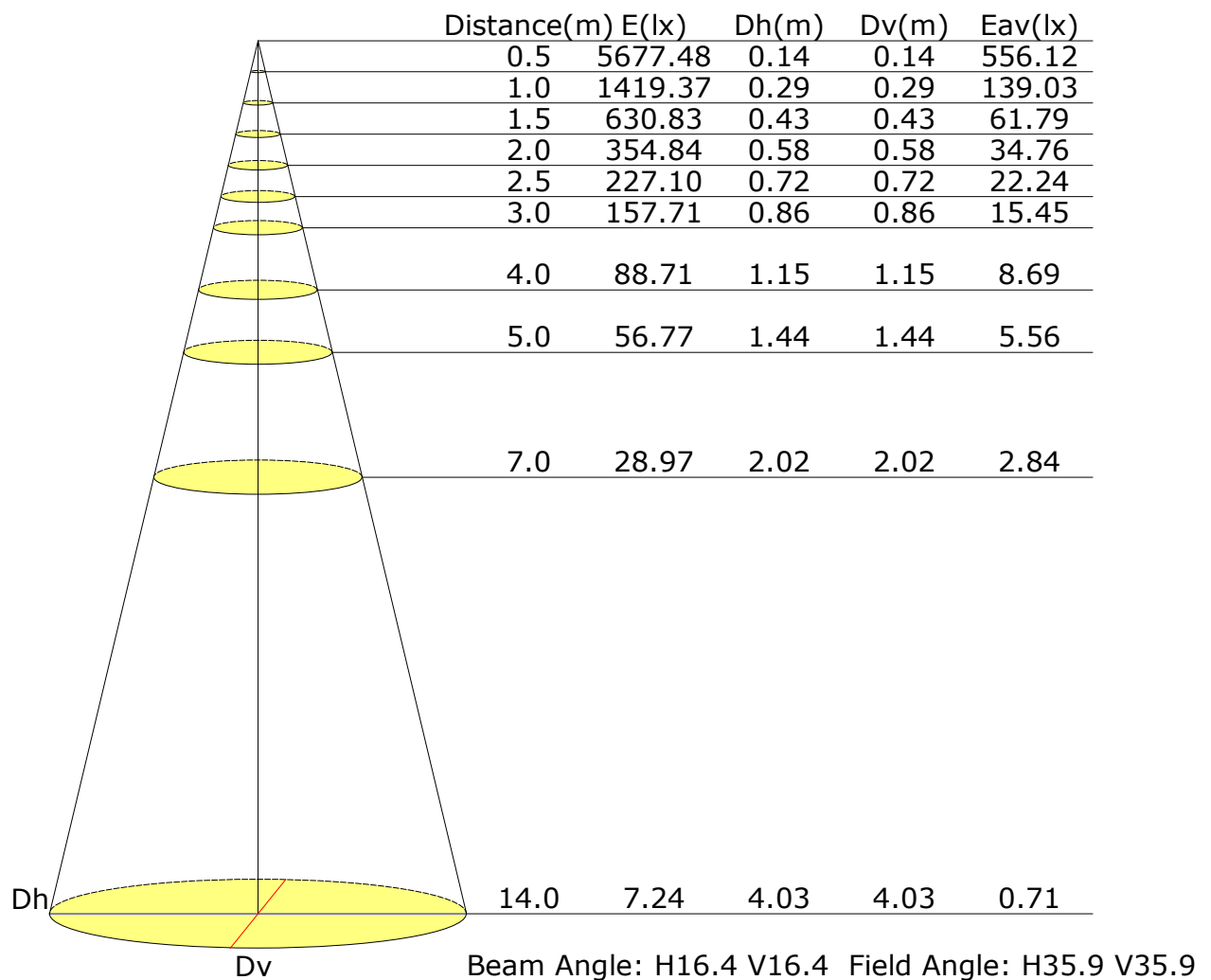


| | | | |
|--|-------|-----------|------|
| Mounting Height: 10m Max Lux(100%): 14 lx | | | |
| — (1%): | 0 lx | — (2%): | 0 lx |
| — (5%): | 1 lx | — (10%): | 1 lx |
| — (20%): | 3 lx | — (50%): | 7 lx |
| — (100%): | 14 lx | | |

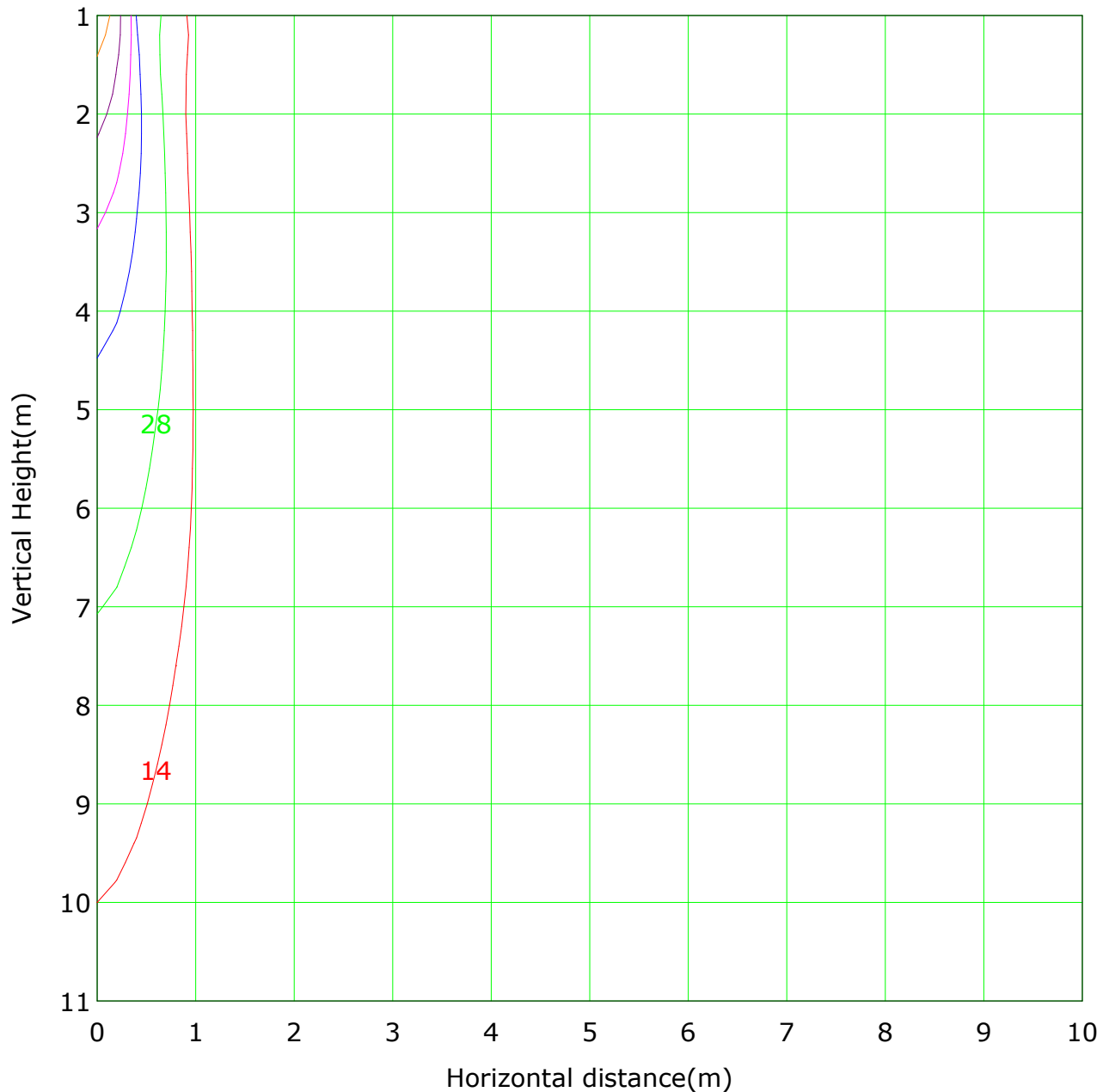
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



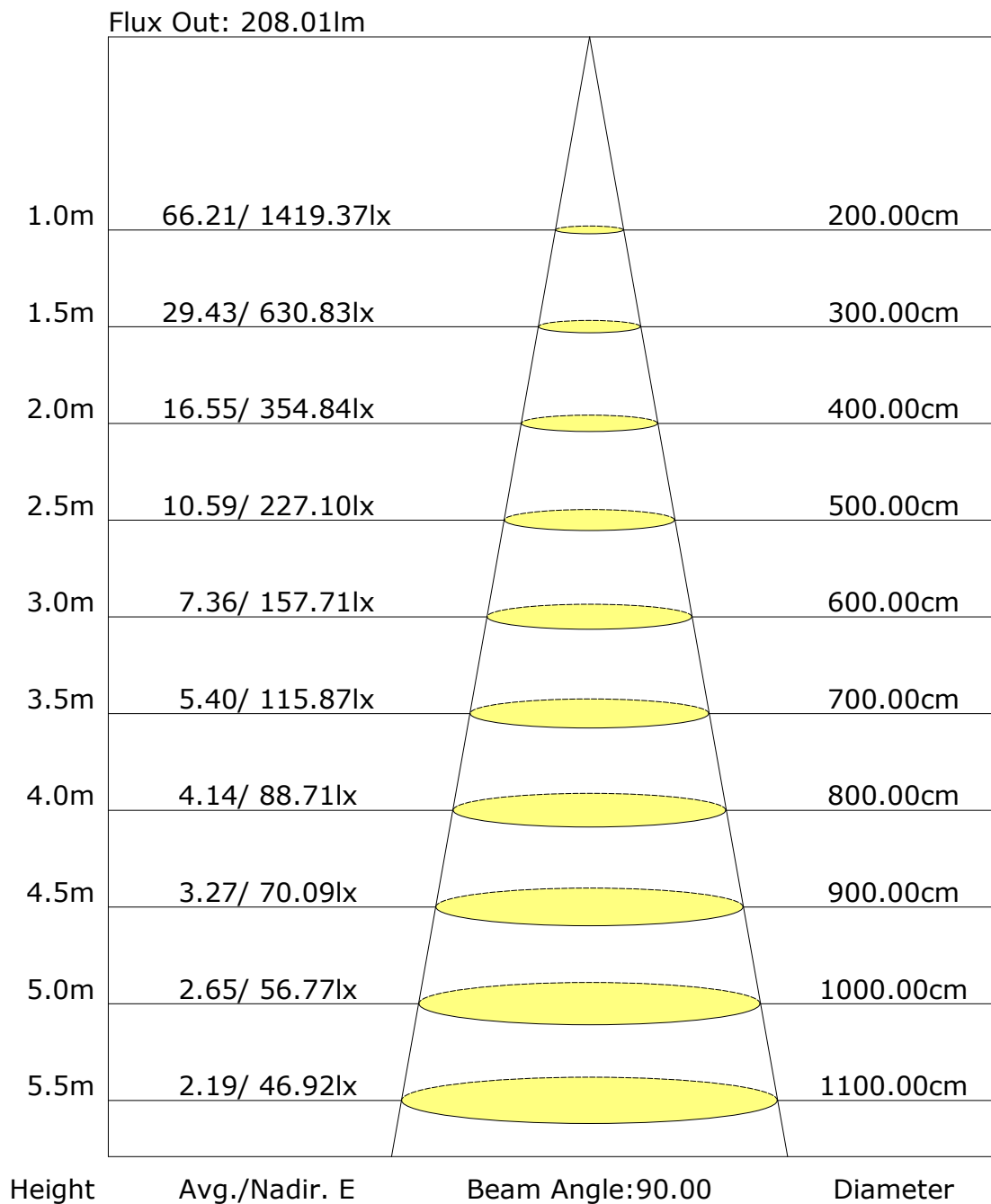
Lowest(m): 1m Highest(m): 11 Max Lux: 1419

| | |
|-----------------|----------------|
| (1%): 14 lx | (2%): 28 lx |
| (5%): 71 lx | (10%): 142 lx |
| (20%): 284 lx | (50%): 710 lx |
| (100%): 1419 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 | 1411.0 | 1.4 | 1.4 | 0.60 | 0.60 |
| 1.0-2.0 | 1377.5 | 4.0 | 5.3 | 1.77 | 2.37 |
| 2.0-3.0 | 1314.0 | 6.3 | 11.6 | 2.81 | 5.19 |
| 3.0-4.0 | 1228.4 | 8.2 | 19.8 | 3.68 | 8.87 |
| 4.0-5.0 | 1130.2 | 9.7 | 29.5 | 4.35 | 13.22 |
| 5.0-6.0 | 1026.4 | 10.8 | 40.3 | 4.83 | 18.05 |
| 6.0-7.0 | 917.7 | 11.4 | 51.7 | 5.10 | 23.15 |
| 7.0-8.0 | 804.9 | 11.5 | 63.2 | 5.16 | 28.31 |
| 8.0-9.0 | 692.8 | 11.2 | 74.5 | 5.03 | 33.33 |
| 9.0-10.0 | 585.8 | 10.6 | 85.1 | 4.75 | 38.08 |
| 10.0-11.0 | 488.4 | 9.8 | 94.8 | 4.37 | 42.45 |
| 11.0-12.0 | 404.5 | 8.8 | 103.7 | 3.96 | 46.41 |
| 12.0-13.0 | 335.3 | 8.0 | 111.6 | 3.56 | 49.97 |
| 13.0-14.0 | 280.2 | 7.2 | 118.8 | 3.21 | 53.18 |
| 14.0-15.0 | 237.2 | 6.5 | 125.3 | 2.92 | 56.10 |
| 15.0-16.0 | 203.1 | 6.0 | 131.3 | 2.66 | 58.76 |
| 16.0-17.0 | 175.6 | 5.5 | 136.7 | 2.45 | 61.21 |
| 17.0-18.0 | 153.1 | 5.0 | 141.8 | 2.26 | 63.47 |
| 18.0-19.0 | 134.2 | 4.7 | 146.5 | 2.09 | 65.56 |
| 19.0-20.0 | 118.2 | 4.3 | 150.8 | 1.94 | 67.50 |
| 20.0-21.0 | 104.4 | 4.0 | 154.8 | 1.79 | 69.29 |
| 21.0-22.0 | 92.4 | 3.7 | 158.5 | 1.66 | 70.95 |
| 22.0-23.0 | 82.2 | 3.5 | 162.0 | 1.55 | 72.50 |
| 23.0-24.0 | 73.7 | 3.2 | 165.2 | 1.44 | 73.94 |
| 24.0-25.0 | 66.2 | 3.0 | 168.2 | 1.35 | 75.29 |
| 25.0-26.0 | 59.7 | 2.8 | 171.0 | 1.26 | 76.55 |
| 26.0-27.0 | 54.4 | 2.7 | 173.7 | 1.19 | 77.74 |
| 27.0-28.0 | 49.8 | 2.5 | 176.2 | 1.13 | 78.87 |
| 28.0-29.0 | 45.9 | 2.4 | 178.6 | 1.08 | 79.95 |
| 29.0-30.0 | 42.7 | 2.3 | 180.9 | 1.03 | 80.98 |
| 30.0-31.0 | 39.9 | 2.2 | 183.1 | 0.99 | 81.97 |
| 31.0-32.0 | 37.4 | 2.1 | 185.3 | 0.96 | 82.93 |
| 32.0-33.0 | 35.3 | 2.1 | 187.4 | 0.93 | 83.86 |
| 33.0-34.0 | 33.4 | 2.0 | 189.4 | 0.90 | 84.77 |
| 34.0-35.0 | 31.6 | 2.0 | 191.3 | 0.88 | 85.65 |
| 35.0-36.0 | 29.9 | 1.9 | 193.2 | 0.85 | 86.50 |

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 | 28.2 | 1.8 | 195.1 | 0.82 | 87.32 |
| 37.0-38.0 | 26.8 | 1.8 | 196.9 | 0.80 | 88.12 |
| 38.0-39.0 | 25.5 | 1.7 | 198.6 | 0.78 | 88.90 |
| 39.0-40.0 | 24.3 | 1.7 | 200.3 | 0.76 | 89.66 |
| 40.0-41.0 | 23.2 | 1.7 | 202.0 | 0.74 | 90.40 |
| 41.0-42.0 | 22.0 | 1.6 | 203.6 | 0.72 | 91.12 |
| 42.0-43.0 | 20.9 | 1.5 | 205.1 | 0.69 | 91.81 |
| 43.0-44.0 | 19.7 | 1.5 | 206.6 | 0.67 | 92.48 |
| 44.0-45.0 | 18.4 | 1.4 | 208.0 | 0.63 | 93.11 |
| 45.0-46.0 | 17.3 | 1.4 | 209.4 | 0.61 | 93.72 |
| 46.0-47.0 | 16.1 | 1.3 | 210.6 | 0.57 | 94.29 |
| 47.0-48.0 | 14.8 | 1.2 | 211.8 | 0.54 | 94.82 |
| 48.0-49.0 | 13.4 | 1.1 | 212.9 | 0.49 | 95.32 |
| 49.0-50.0 | 12.0 | 1.0 | 213.9 | 0.45 | 95.77 |
| 50.0-51.0 | 10.7 | 0.9 | 214.8 | 0.41 | 96.17 |
| 51.0-52.0 | 9.5 | 0.8 | 215.7 | 0.36 | 96.54 |
| 52.0-53.0 | 8.3 | 0.7 | 216.4 | 0.32 | 96.86 |
| 53.0-54.0 | 7.2 | 0.6 | 217.0 | 0.28 | 97.14 |
| 54.0-55.0 | 6.1 | 0.5 | 217.6 | 0.24 | 97.39 |
| 55.0-56.0 | 5.2 | 0.5 | 218.0 | 0.21 | 97.60 |
| 56.0-57.0 | 4.6 | 0.4 | 218.4 | 0.19 | 97.79 |
| 57.0-58.0 | 4.2 | 0.4 | 218.8 | 0.17 | 97.96 |
| 58.0-59.0 | 3.8 | 0.4 | 219.2 | 0.16 | 98.12 |
| 59.0-60.0 | 3.6 | 0.3 | 219.5 | 0.15 | 98.27 |
| 60.0-61.0 | 3.6 | 0.3 | 219.9 | 0.15 | 98.42 |
| 61.0-62.0 | 3.6 | 0.3 | 220.2 | 0.16 | 98.58 |
| 62.0-63.0 | 3.8 | 0.4 | 220.6 | 0.16 | 98.74 |
| 63.0-64.0 | 3.8 | 0.4 | 221.0 | 0.17 | 98.91 |
| 64.0-65.0 | 3.9 | 0.4 | 221.4 | 0.17 | 99.09 |
| 65.0-66.0 | 3.9 | 0.4 | 221.7 | 0.17 | 99.26 |
| 66.0-67.0 | 3.8 | 0.4 | 222.1 | 0.17 | 99.43 |
| 67.0-68.0 | 3.6 | 0.4 | 222.5 | 0.16 | 99.60 |
| 68.0-69.0 | 3.0 | 0.3 | 222.8 | 0.14 | 99.73 |
| 69.0-70.0 | 2.0 | 0.2 | 223.0 | 0.09 | 99.83 |
| 70.0-71.0 | 1.2 | 0.1 | 223.1 | 0.06 | 99.89 |
| 71.0-72.0 | 0.7 | 0.1 | 223.2 | 0.03 | 99.92 |

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 | 1419.4 | 1419.4 | | | | | | | | |
| G1.0 | 1370.8 | 1434.3 | | | | | | | | |
| G2.0 | 1290.0 | 1415.0 | | | | | | | | |
| G3.0 | 1183.9 | 1367.0 | | | | | | | | |
| G4.0 | 1064.8 | 1297.8 | | | | | | | | |
| G5.0 | 943.2 | 1215.2 | | | | | | | | |
| G6.0 | 829.7 | 1117.6 | | | | | | | | |
| G7.0 | 722.8 | 1000.8 | | | | | | | | |
| G8.0 | 620.9 | 875.4 | | | | | | | | |
| G9.0 | 525.8 | 749.2 | | | | | | | | |
| G10.0 | 440.2 | 628.1 | | | | | | | | |
| G11.0 | 365.7 | 519.6 | | | | | | | | |
| G12.0 | 305.0 | 427.8 | | | | | | | | |
| G13.0 | 257.2 | 351.2 | | | | | | | | |
| G14.0 | 219.2 | 293.0 | | | | | | | | |
| G15.0 | 188.8 | 247.8 | | | | | | | | |
| G16.0 | 163.0 | 212.7 | | | | | | | | |
| G17.0 | 142.0 | 184.7 | | | | | | | | |
| G18.0 | 124.3 | 161.3 | | | | | | | | |
| G19.0 | 110.1 | 141.0 | | | | | | | | |
| G20.0 | 97.8 | 123.9 | | | | | | | | |
| G21.0 | 87.8 | 108.1 | | | | | | | | |
| G22.0 | 79.7 | 94.0 | | | | | | | | |
| G23.0 | 72.8 | 82.6 | | | | | | | | |
| G24.0 | 67.2 | 72.5 | | | | | | | | |
| G25.0 | 61.5 | 63.8 | | | | | | | | |
| G26.0 | 57.1 | 56.6 | | | | | | | | |
| G27.0 | 53.3 | 50.5 | | | | | | | | |
| G28.0 | 50.3 | 45.1 | | | | | | | | |
| G29.0 | 47.7 | 40.7 | | | | | | | | |
| G30.0 | 45.4 | 37.0 | | | | | | | | |
| G31.0 | 43.1 | 33.9 | | | | | | | | |
| G32.0 | 41.2 | 31.5 | | | | | | | | |
| G33.0 | 39.5 | 29.0 | | | | | | | | |
| G34.0 | 37.7 | 27.2 | | | | | | | | |
| G35.0 | 35.6 | 25.7 | | | | | | | | |
| G36.0 | 33.9 | 24.2 | | | | | | | | |

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 | 32.5 | 22.4 | | | | | | | | |
| G38.0 | 31.3 | 21.1 | | | | | | | | |
| G39.0 | 29.8 | 19.9 | | | | | | | | |
| G40.0 | 28.7 | 18.8 | | | | | | | | |
| G41.0 | 27.6 | 17.8 | | | | | | | | |
| G42.0 | 26.0 | 16.9 | | | | | | | | |
| G43.0 | 24.8 | 15.9 | | | | | | | | |
| G44.0 | 23.1 | 15.0 | | | | | | | | |
| G45.0 | 21.5 | 14.1 | | | | | | | | |
| G46.0 | 20.1 | 13.4 | | | | | | | | |
| G47.0 | 18.5 | 12.4 | | | | | | | | |
| G48.0 | 16.9 | 11.4 | | | | | | | | |
| G49.0 | 14.9 | 10.4 | | | | | | | | |
| G50.0 | 13.2 | 9.7 | | | | | | | | |
| G51.0 | 11.3 | 8.7 | | | | | | | | |
| G52.0 | 9.8 | 8.1 | | | | | | | | |
| G53.0 | 8.1 | 7.3 | | | | | | | | |
| G54.0 | 6.7 | 6.6 | | | | | | | | |
| G55.0 | 5.5 | 5.7 | | | | | | | | |
| G56.0 | 4.6 | 5.0 | | | | | | | | |
| G57.0 | 3.8 | 5.0 | | | | | | | | |
| G58.0 | 3.2 | 4.7 | | | | | | | | |
| G59.0 | 2.6 | 4.7 | | | | | | | | |
| G60.0 | 2.2 | 5.0 | | | | | | | | |
| G61.0 | 1.9 | 5.2 | | | | | | | | |
| G62.0 | 1.7 | 5.7 | | | | | | | | |
| G63.0 | 1.5 | 6.1 | | | | | | | | |
| G64.0 | 1.2 | 6.6 | | | | | | | | |
| G65.0 | 1.0 | 6.7 | | | | | | | | |
| G66.0 | 1.0 | 6.9 | | | | | | | | |
| G67.0 | 0.7 | 6.7 | | | | | | | | |
| G68.0 | 0.9 | 6.1 | | | | | | | | |
| G69.0 | 0.9 | 4.2 | | | | | | | | |
| G70.0 | 0.6 | 2.5 | | | | | | | | |
| G71.0 | 0.6 | 1.2 | | | | | | | | |
| G72.0 | 0.4 | 0.5 | | | | | | | | |
| G73.0 | 0.1 | 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: