

Report No.:

Test Time: 2024-08-28 16:21

Luminaire Property

Luminaire Category:

Luminaire Description: 51.03821 15D

Current: 0.131 A

Power Factor: 0.978

Voltage: 220.0 V

Power: 28.30 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1942.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H17.8

Vertical Diffuse Angle(50%): V17.8

Luminaire Efficacy Rating (LER): 69

Max. Intensity: 13196.96 cd

Total Rated Lamp Lumens: 1942.7 lm

Efficiency: 100%

Upward Ratio: 0%

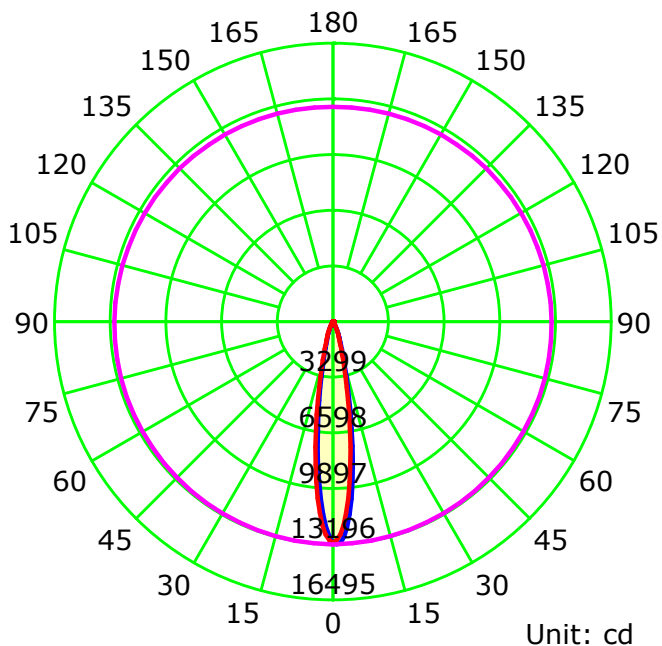
Central Intensity: 13083.52 cd

Pos of Max. Intensity: H0 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

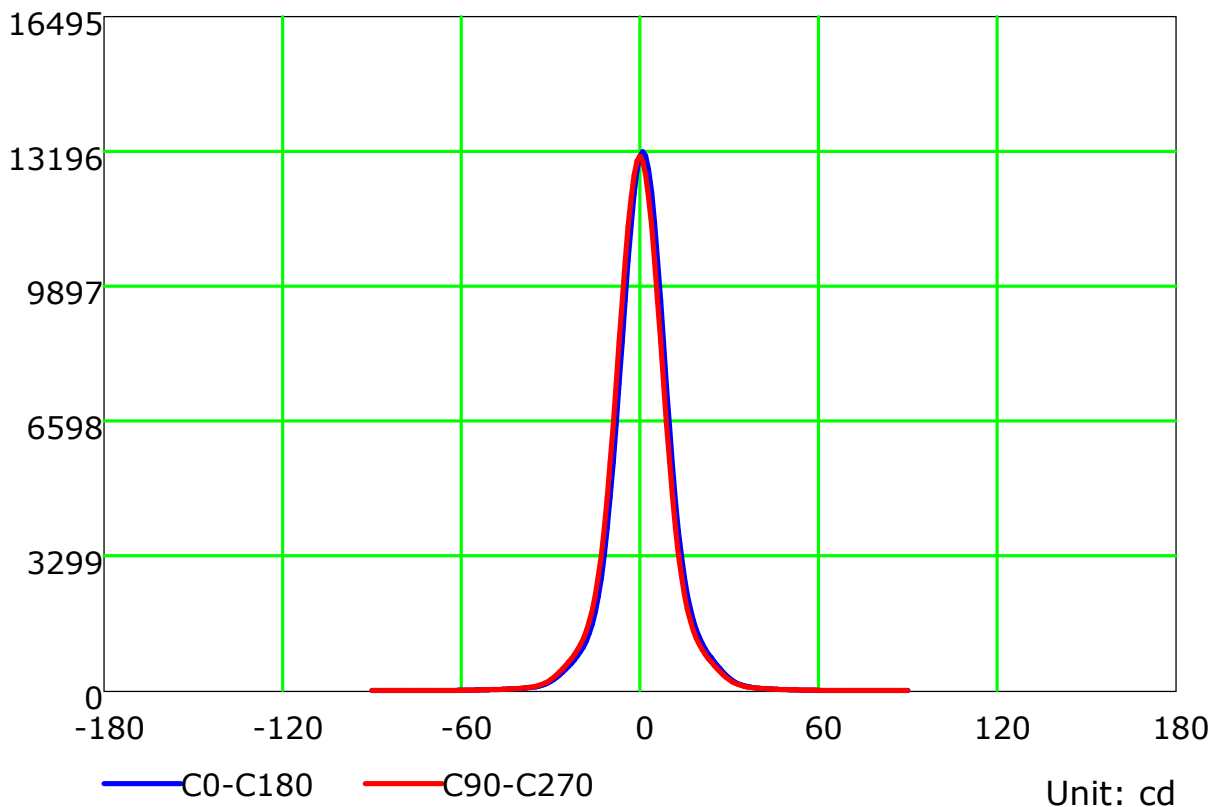
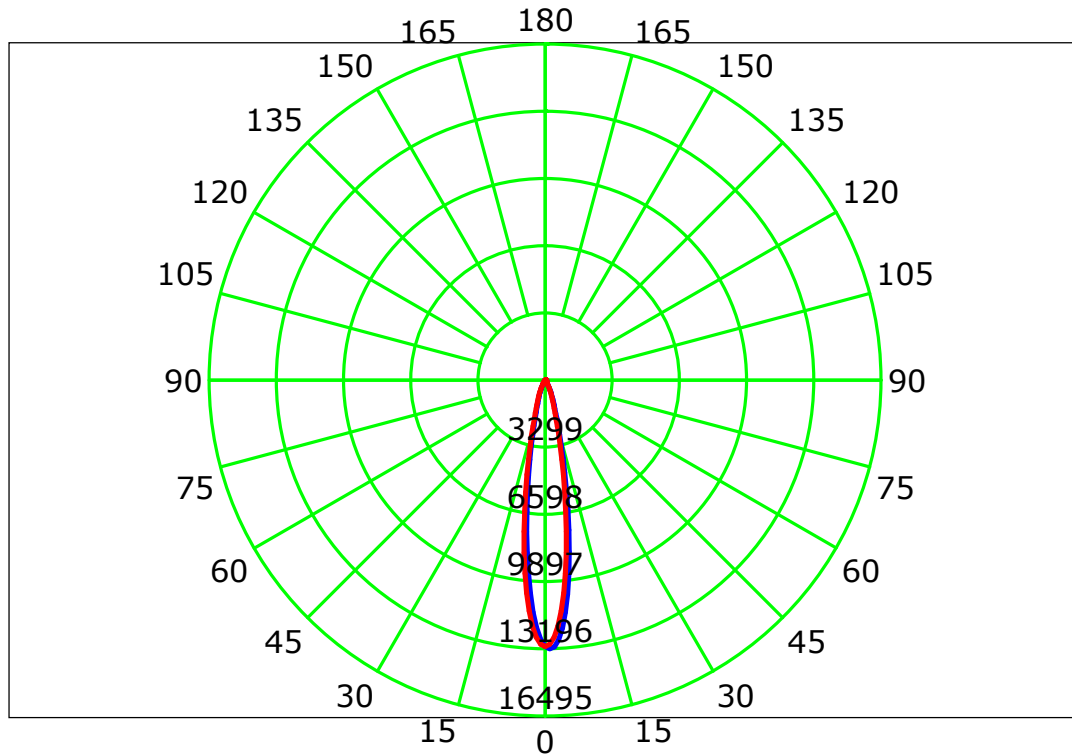
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

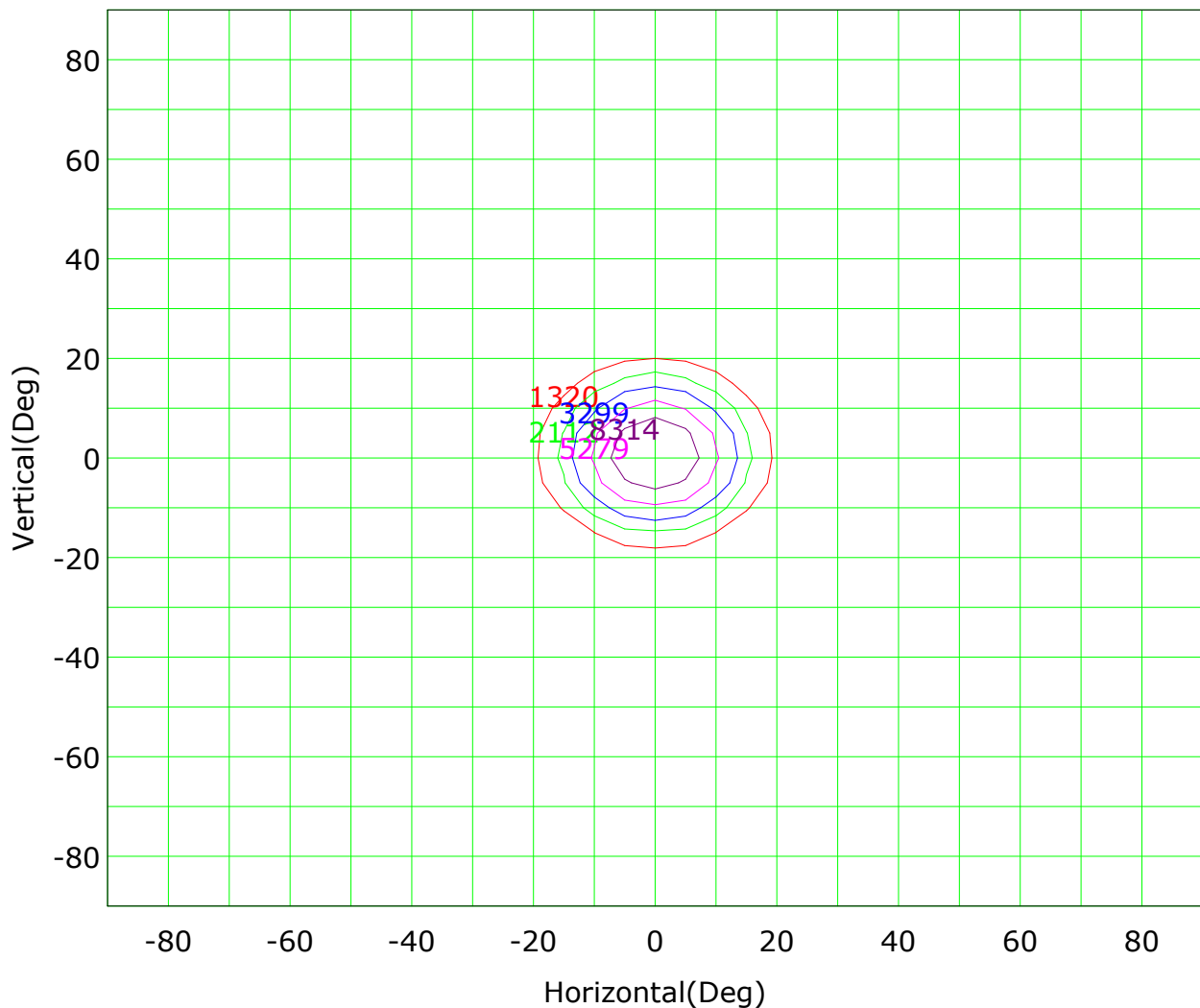
Luminous Intensity Distribution Curve



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%): 13197 cd

| | |
|-----------------|------------------|
| (10%): 1320 cd | (16%): 2112 cd |
| (25%): 3299 cd | (40%): 5279 cd |
| (63%): 8314 cd | (100%): 13197 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

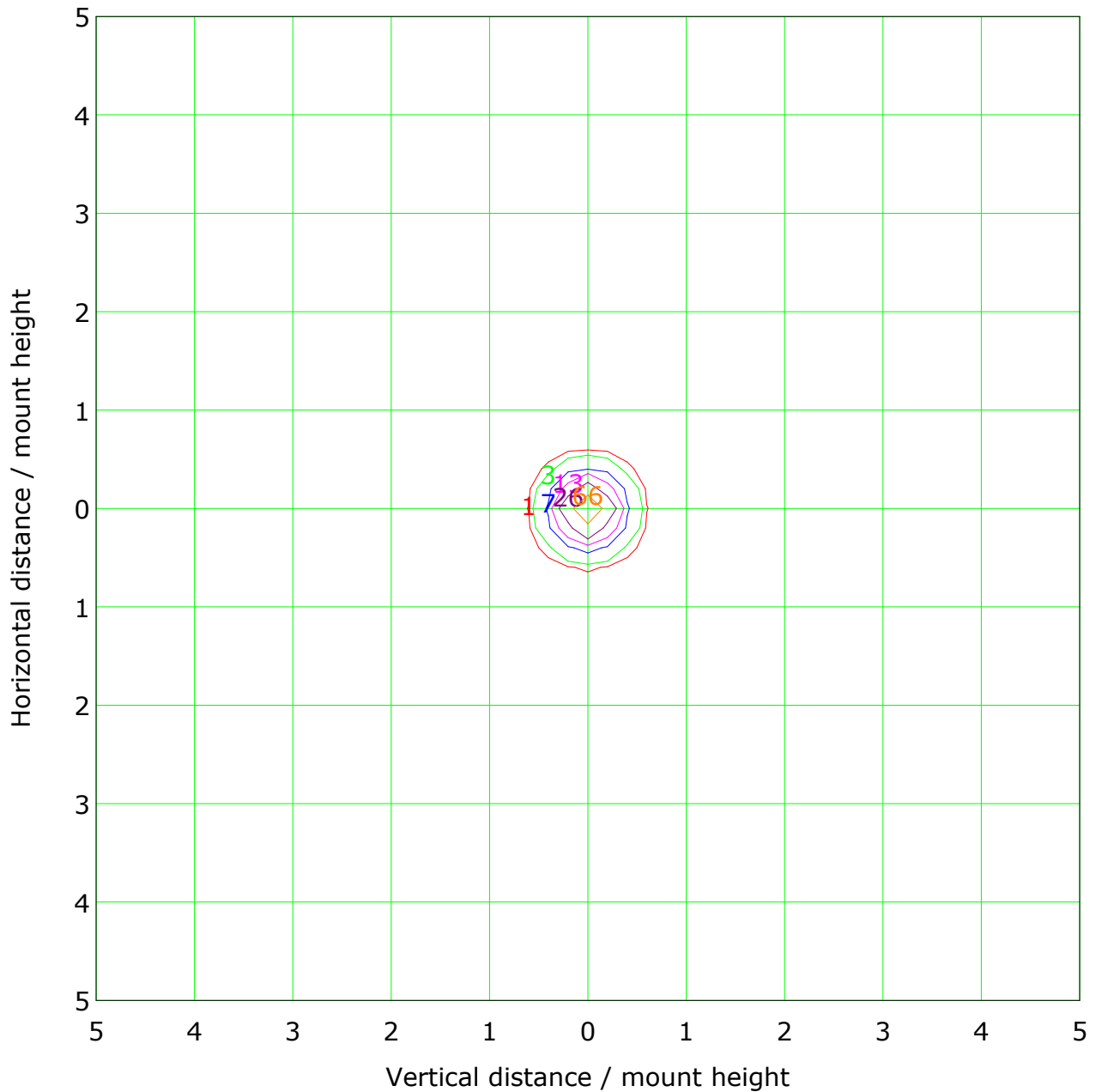
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



| | | | |
|----------------------|--------|-----------------------|-------|
| Mounting Height: 10m | | Max Lux(100%): 132 lx | |
| (1%): | 1 lx | (2%): | 3 lx |
| (5%): | 7 lx | (10%): | 13 lx |
| (20%): | 26 lx | (50%): | 66 lx |
| (100%): | 132 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

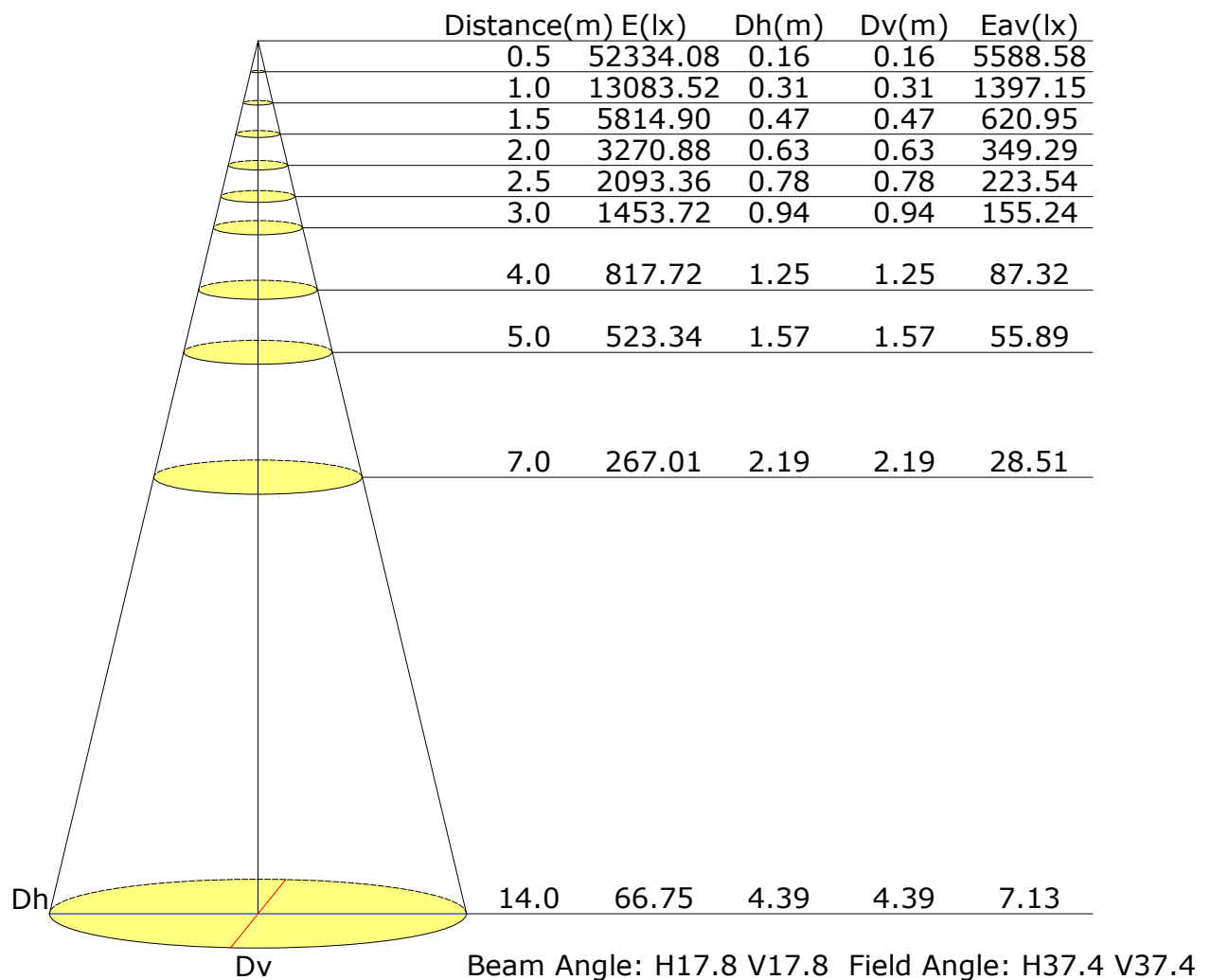
Test Device: CHL-6E

Distance: 3.328 m

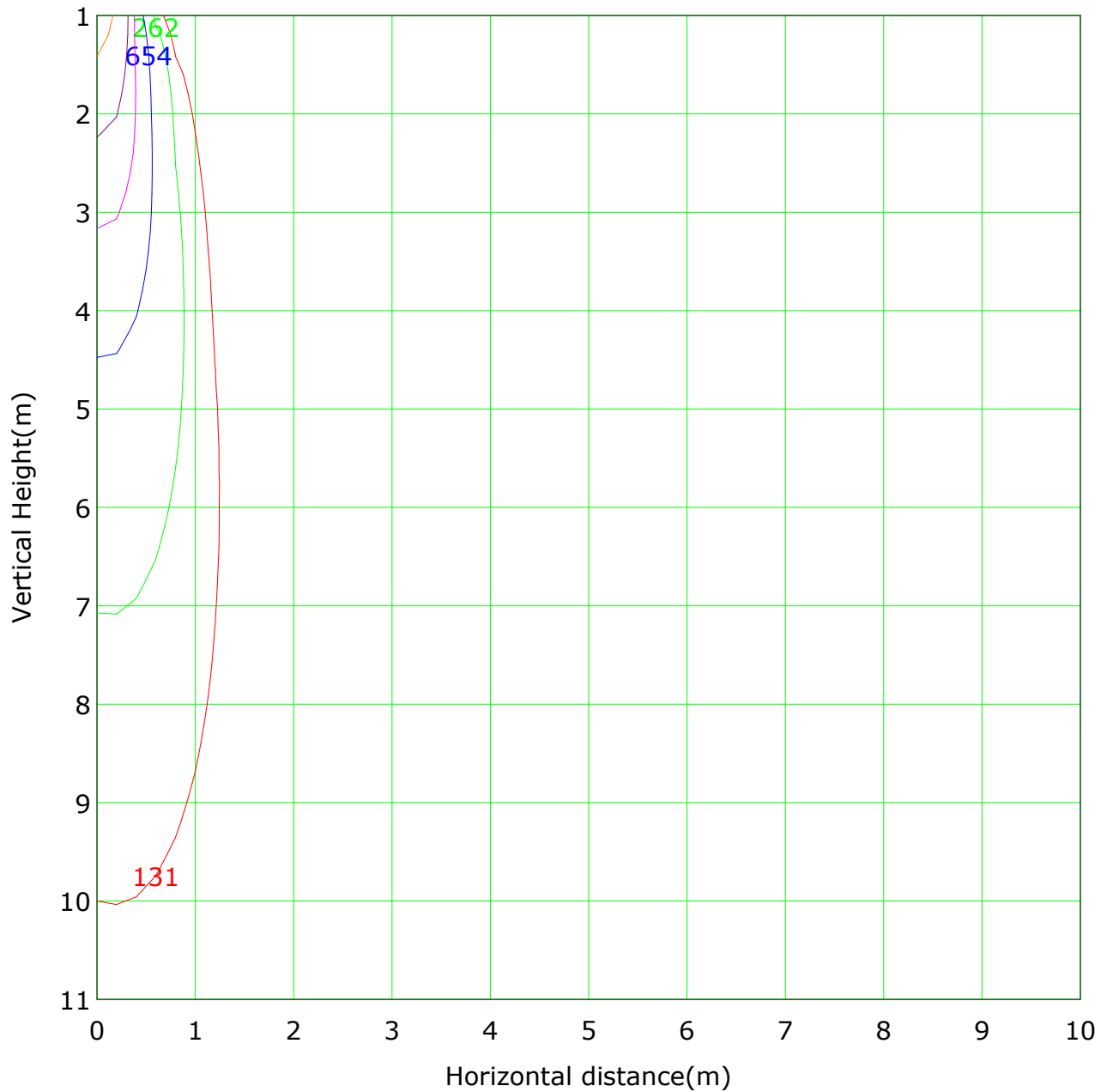
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

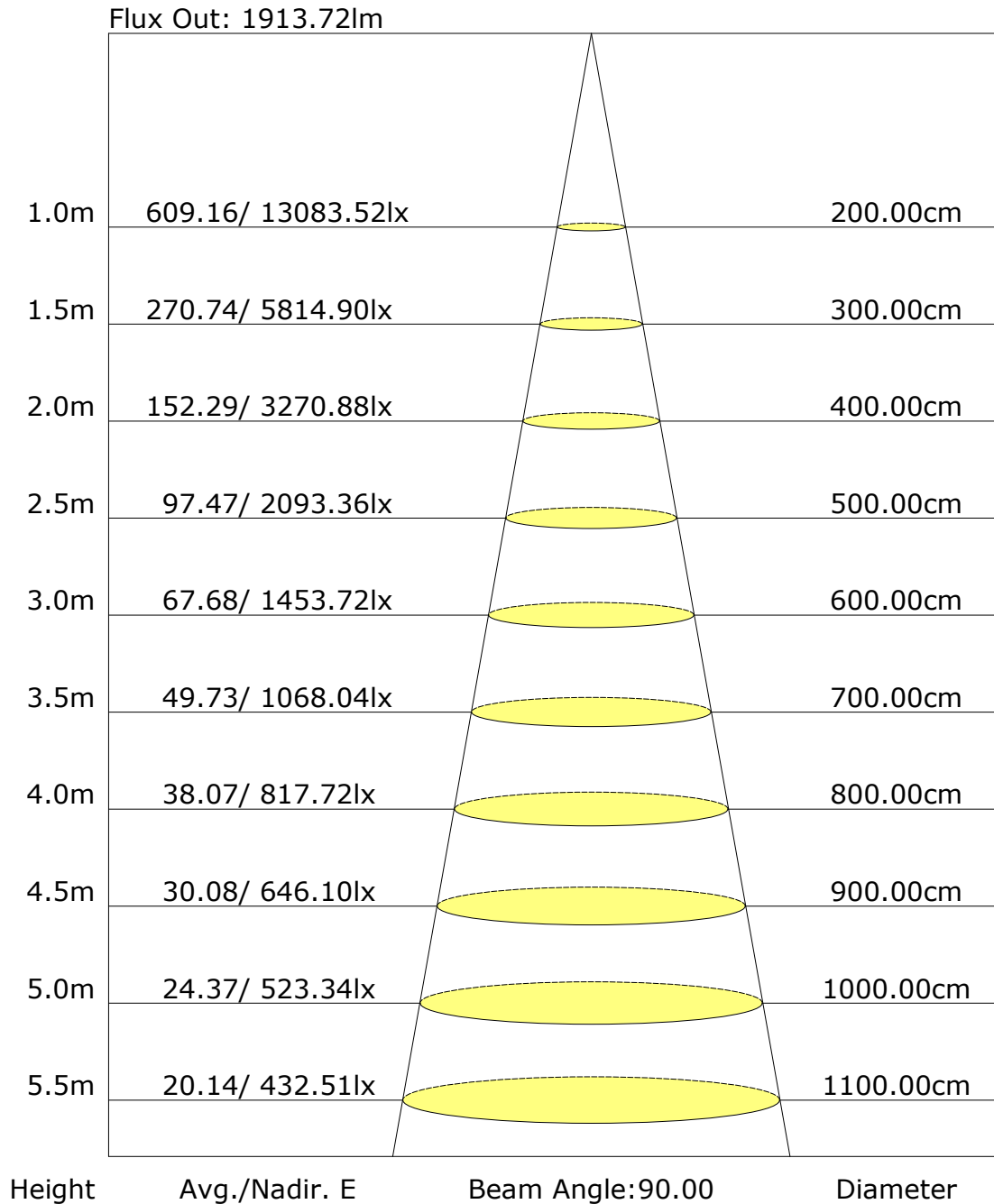


Lowest(m): 1m Highest(m): 11 Max Lux: 13084
— (1%): 131 lx — (2%): 262 lx
— (5%): 654 lx — (10%): 1308 lx
— (20%): 2617 lx — (50%): 6542 lx
— (100%): 13084 lx

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 | 13023.4 | 12.5 | 12.5 | 0.64 | 0.64 |
| 1.0-2.0 | 12794.0 | 36.7 | 49.2 | 1.89 | 2.53 |
| 2.0-3.0 | 12353.6 | 59.1 | 108.3 | 3.04 | 5.57 |
| 3.0-4.0 | 11720.3 | 78.5 | 186.7 | 4.04 | 9.61 |
| 4.0-5.0 | 10926.8 | 94.0 | 280.8 | 4.84 | 14.45 |
| 5.0-6.0 | 10021.8 | 105.3 | 386.1 | 5.42 | 19.87 |
| 6.0-7.0 | 9041.3 | 112.2 | 498.3 | 5.78 | 25.65 |
| 7.0-8.0 | 8025.9 | 114.9 | 613.2 | 5.91 | 31.57 |
| 8.0-9.0 | 7020.8 | 113.8 | 727.0 | 5.86 | 37.42 |
| 9.0-10.0 | 6056.2 | 109.6 | 836.6 | 5.64 | 43.07 |
| 10.0-11.0 | 5161.7 | 103.2 | 939.8 | 5.31 | 48.38 |
| 11.0-12.0 | 4361.1 | 95.3 | 1035.1 | 4.91 | 53.28 |
| 12.0-13.0 | 3664.8 | 87.0 | 1122.1 | 4.48 | 57.76 |
| 13.0-14.0 | 3072.7 | 78.7 | 1200.8 | 4.05 | 61.81 |
| 14.0-15.0 | 2579.6 | 70.8 | 1271.6 | 3.65 | 65.46 |
| 15.0-16.0 | 2175.7 | 63.8 | 1335.4 | 3.28 | 68.74 |
| 16.0-17.0 | 1848.1 | 57.6 | 1392.9 | 2.96 | 71.70 |
| 17.0-18.0 | 1585.1 | 52.3 | 1445.2 | 2.69 | 74.39 |
| 18.0-19.0 | 1374.4 | 47.8 | 1493.0 | 2.46 | 76.85 |
| 19.0-20.0 | 1203.0 | 44.0 | 1537.0 | 2.27 | 79.12 |
| 20.0-21.0 | 1062.1 | 40.8 | 1577.8 | 2.10 | 81.22 |
| 21.0-22.0 | 943.4 | 37.9 | 1615.8 | 1.95 | 83.17 |
| 22.0-23.0 | 839.3 | 35.2 | 1651.0 | 1.81 | 84.99 |
| 23.0-24.0 | 746.1 | 32.6 | 1683.6 | 1.68 | 86.66 |
| 24.0-25.0 | 658.9 | 30.0 | 1713.6 | 1.54 | 88.21 |
| 25.0-26.0 | 574.7 | 27.1 | 1740.7 | 1.40 | 89.60 |
| 26.0-27.0 | 495.9 | 24.3 | 1765.0 | 1.25 | 90.85 |
| 27.0-28.0 | 422.3 | 21.4 | 1786.3 | 1.10 | 91.95 |
| 28.0-29.0 | 354.7 | 18.6 | 1804.9 | 0.96 | 92.91 |
| 29.0-30.0 | 294.8 | 15.9 | 1820.8 | 0.82 | 93.73 |
| 30.0-31.0 | 243.1 | 13.5 | 1834.3 | 0.70 | 94.42 |
| 31.0-32.0 | 200.4 | 11.5 | 1845.8 | 0.59 | 95.02 |
| 32.0-33.0 | 165.5 | 9.8 | 1855.6 | 0.50 | 95.52 |
| 33.0-34.0 | 137.8 | 8.3 | 1863.9 | 0.43 | 95.95 |
| 34.0-35.0 | 116.2 | 7.2 | 1871.1 | 0.37 | 96.32 |
| 35.0-36.0 | 99.1 | 6.3 | 1877.4 | 0.32 | 96.64 |

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 | 86.3 | 5.6 | 1883.1 | 0.29 | 96.93 |
| 37.0-38.0 | 76.0 | 5.1 | 1888.2 | 0.26 | 97.19 |
| 38.0-39.0 | 67.3 | 4.6 | 1892.8 | 0.24 | 97.43 |
| 39.0-40.0 | 59.5 | 4.2 | 1896.9 | 0.21 | 97.65 |
| 40.0-41.0 | 53.6 | 3.8 | 1900.7 | 0.20 | 97.84 |
| 41.0-42.0 | 49.6 | 3.6 | 1904.3 | 0.19 | 98.03 |
| 42.0-43.0 | 45.2 | 3.3 | 1907.7 | 0.17 | 98.20 |
| 43.0-44.0 | 41.4 | 3.1 | 1910.8 | 0.16 | 98.36 |
| 44.0-45.0 | 38.0 | 2.9 | 1913.7 | 0.15 | 98.51 |
| 45.0-46.0 | 34.3 | 2.7 | 1916.4 | 0.14 | 98.65 |
| 46.0-47.0 | 31.2 | 2.5 | 1918.9 | 0.13 | 98.78 |
| 47.0-48.0 | 28.7 | 2.3 | 1921.2 | 0.12 | 98.90 |
| 48.0-49.0 | 26.5 | 2.2 | 1923.4 | 0.11 | 99.01 |
| 49.0-50.0 | 24.6 | 2.1 | 1925.4 | 0.11 | 99.11 |
| 50.0-51.0 | 22.4 | 1.9 | 1927.3 | 0.10 | 99.21 |
| 51.0-52.0 | 20.6 | 1.8 | 1929.1 | 0.09 | 99.30 |
| 52.0-53.0 | 18.7 | 1.6 | 1930.7 | 0.08 | 99.39 |
| 53.0-54.0 | 16.2 | 1.4 | 1932.1 | 0.07 | 99.46 |
| 54.0-55.0 | 15.0 | 1.3 | 1933.5 | 0.07 | 99.53 |
| 55.0-56.0 | 14.0 | 1.3 | 1934.8 | 0.07 | 99.59 |
| 56.0-57.0 | 12.8 | 1.2 | 1935.9 | 0.06 | 99.65 |
| 57.0-58.0 | 11.8 | 1.1 | 1937.0 | 0.06 | 99.71 |
| 58.0-59.0 | 10.3 | 1.0 | 1938.0 | 0.05 | 99.76 |
| 59.0-60.0 | 9.0 | 0.9 | 1938.8 | 0.04 | 99.80 |
| 60.0-61.0 | 8.1 | 0.8 | 1939.6 | 0.04 | 99.84 |
| 61.0-62.0 | 6.5 | 0.6 | 1940.2 | 0.03 | 99.88 |
| 62.0-63.0 | 4.7 | 0.5 | 1940.7 | 0.02 | 99.90 |
| 63.0-64.0 | 4.1 | 0.4 | 1941.1 | 0.02 | 99.92 |
| 64.0-65.0 | 3.7 | 0.4 | 1941.5 | 0.02 | 99.94 |
| 65.0-66.0 | 2.5 | 0.2 | 1941.7 | 0.01 | 99.95 |
| 66.0-67.0 | 1.2 | 0.1 | 1941.8 | 0.01 | 99.96 |
| 67.0-68.0 | 0.6 | 0.1 | 1941.9 | 0.00 | 99.96 |
| 68.0-69.0 | 0.6 | 0.1 | 1942.0 | 0.00 | 99.96 |
| 69.0-70.0 | 0.6 | 0.1 | 1942.0 | 0.00 | 99.97 |
| 70.0-71.0 | 0.6 | 0.1 | 1942.1 | 0.00 | 99.97 |
| 71.0-72.0 | 0.6 | 0.1 | 1942.2 | 0.00 | 99.97 |

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 | 13083.5 | 13083.5 | | | | | | | | |
| G1.0 | 13197.0 | 12729.5 | | | | | | | | |
| G2.0 | 13094.7 | 12154.8 | | | | | | | | |
| G3.0 | 12758.2 | 11406.8 | | | | | | | | |
| G4.0 | 12197.2 | 10519.2 | | | | | | | | |
| G5.0 | 11445.4 | 9545.5 | | | | | | | | |
| G6.0 | 10560.3 | 8535.8 | | | | | | | | |
| G7.0 | 9560.5 | 7508.5 | | | | | | | | |
| G8.0 | 8513.3 | 6521.2 | | | | | | | | |
| G9.0 | 7453.7 | 5594.9 | | | | | | | | |
| G10.0 | 6436.4 | 4739.7 | | | | | | | | |
| G11.0 | 5489.0 | 3981.8 | | | | | | | | |
| G12.0 | 4648.7 | 3324.8 | | | | | | | | |
| G13.0 | 3921.9 | 2763.8 | | | | | | | | |
| G14.0 | 3301.1 | 2303.8 | | | | | | | | |
| G15.0 | 2780.0 | 1933.5 | | | | | | | | |
| G16.0 | 2351.2 | 1638.1 | | | | | | | | |
| G17.0 | 1999.6 | 1403.7 | | | | | | | | |
| G18.0 | 1720.4 | 1216.7 | | | | | | | | |
| G19.0 | 1491.0 | 1069.6 | | | | | | | | |
| G20.0 | 1302.7 | 948.7 | | | | | | | | |
| G21.0 | 1149.4 | 847.7 | | | | | | | | |
| G22.0 | 1021.0 | 755.5 | | | | | | | | |
| G23.0 | 908.8 | 671.9 | | | | | | | | |
| G24.0 | 809.1 | 594.7 | | | | | | | | |
| G25.0 | 713.1 | 518.6 | | | | | | | | |
| G26.0 | 619.6 | 447.5 | | | | | | | | |
| G27.0 | 534.8 | 381.5 | | | | | | | | |
| G28.0 | 451.3 | 321.6 | | | | | | | | |
| G29.0 | 376.5 | 269.3 | | | | | | | | |
| G30.0 | 310.4 | 223.1 | | | | | | | | |
| G31.0 | 253.1 | 185.8 | | | | | | | | |
| G32.0 | 209.4 | 153.3 | | | | | | | | |
| G33.0 | 170.8 | 128.4 | | | | | | | | |
| G34.0 | 142.1 | 109.7 | | | | | | | | |
| G35.0 | 119.7 | 93.5 | | | | | | | | |
| G36.0 | 102.2 | 81.0 | | | | | | | | |

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:

Candlepower Table (Continue 1)

Unit: cd

| G\C | C0.0 | C180.0 | | | | | | | | |
|-------|------|--------|--|--|--|--|--|--|--|--|
| G37.0 | 88.5 | 73.6 | | | | | | | | |
| G38.0 | 76.1 | 66.1 | | | | | | | | |
| G39.0 | 67.3 | 59.8 | | | | | | | | |
| G40.0 | 58.6 | 52.4 | | | | | | | | |
| G41.0 | 54.8 | 48.6 | | | | | | | | |
| G42.0 | 49.9 | 44.9 | | | | | | | | |
| G43.0 | 44.9 | 41.1 | | | | | | | | |
| G44.0 | 39.9 | 39.9 | | | | | | | | |
| G45.0 | 37.4 | 34.9 | | | | | | | | |
| G46.0 | 32.4 | 32.4 | | | | | | | | |
| G47.0 | 29.9 | 29.9 | | | | | | | | |
| G48.0 | 26.2 | 28.7 | | | | | | | | |
| G49.0 | 23.7 | 27.4 | | | | | | | | |
| G50.0 | 22.4 | 24.9 | | | | | | | | |
| G51.0 | 20.0 | 22.4 | | | | | | | | |
| G52.0 | 20.0 | 20.0 | | | | | | | | |
| G53.0 | 16.2 | 18.7 | | | | | | | | |
| G54.0 | 13.7 | 16.2 | | | | | | | | |
| G55.0 | 13.7 | 16.2 | | | | | | | | |
| G56.0 | 11.2 | 15.0 | | | | | | | | |
| G57.0 | 10.0 | 15.0 | | | | | | | | |
| G58.0 | 10.0 | 12.5 | | | | | | | | |
| G59.0 | 8.7 | 10.0 | | | | | | | | |
| G60.0 | 7.5 | 10.0 | | | | | | | | |
| G61.0 | 6.2 | 8.7 | | | | | | | | |
| G62.0 | 3.7 | 7.5 | | | | | | | | |
| G63.0 | 1.3 | 6.2 | | | | | | | | |
| G64.0 | 2.5 | 6.2 | | | | | | | | |
| G65.0 | 2.5 | 3.7 | | | | | | | | |
| G66.0 | 0.0 | 3.7 | | | | | | | | |
| G67.0 | 0.0 | 1.3 | | | | | | | | |
| G68.0 | 0.0 | 1.3 | | | | | | | | |
| G69.0 | 0.0 | 1.3 | | | | | | | | |
| G70.0 | 0.0 | 1.3 | | | | | | | | |
| G71.0 | 0.0 | 1.3 | | | | | | | | |
| G72.0 | 0.0 | 1.3 | | | | | | | | |
| G73.0 | 0.0 | 1.3 | | | | | | | | |

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: