

Report No.: AX-DL-VE-32W-075

Test Time: 2024-10-13 17:40

Luminaire Property

Luminaire Category:

Luminaire Description: 24D

Current: 0.141 A

Power Factor: 0.979

Voltage: 233.2 V

Power: 32.30 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3653.3 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H40.4

Vertical Diffuse Angle(50%): V40.4

Luminaire Efficacy Rating (LER): 113

Max. Intensity: 7684.32 cd

Total Rated Lamp Lumens: 3653.3 lm

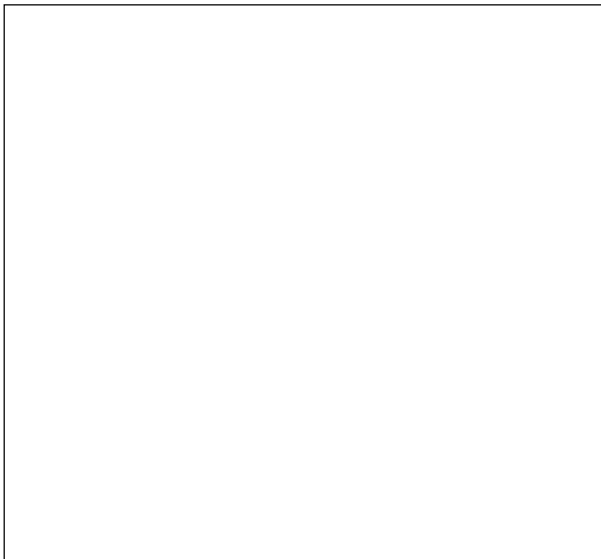
Efficiency: 100%

Upward Ratio: 0%

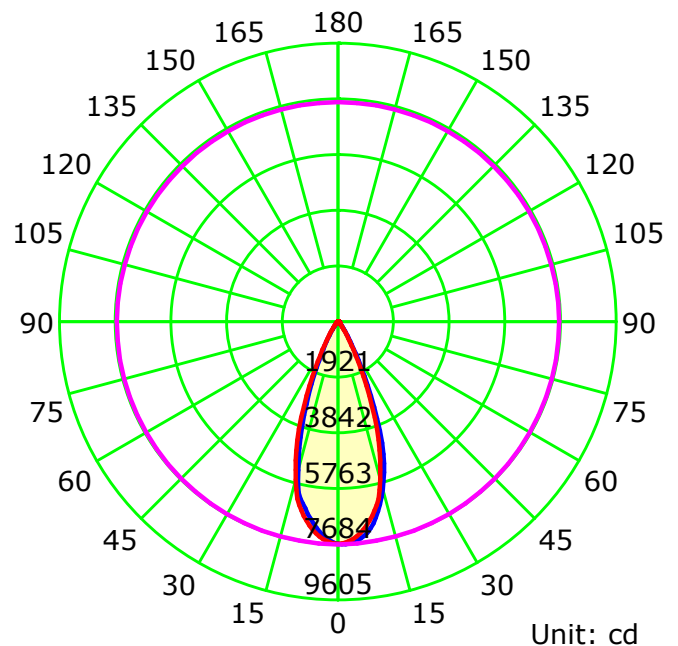
Central Intensity: 7668.1 cd

Pos of Max. Intensity: H0 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

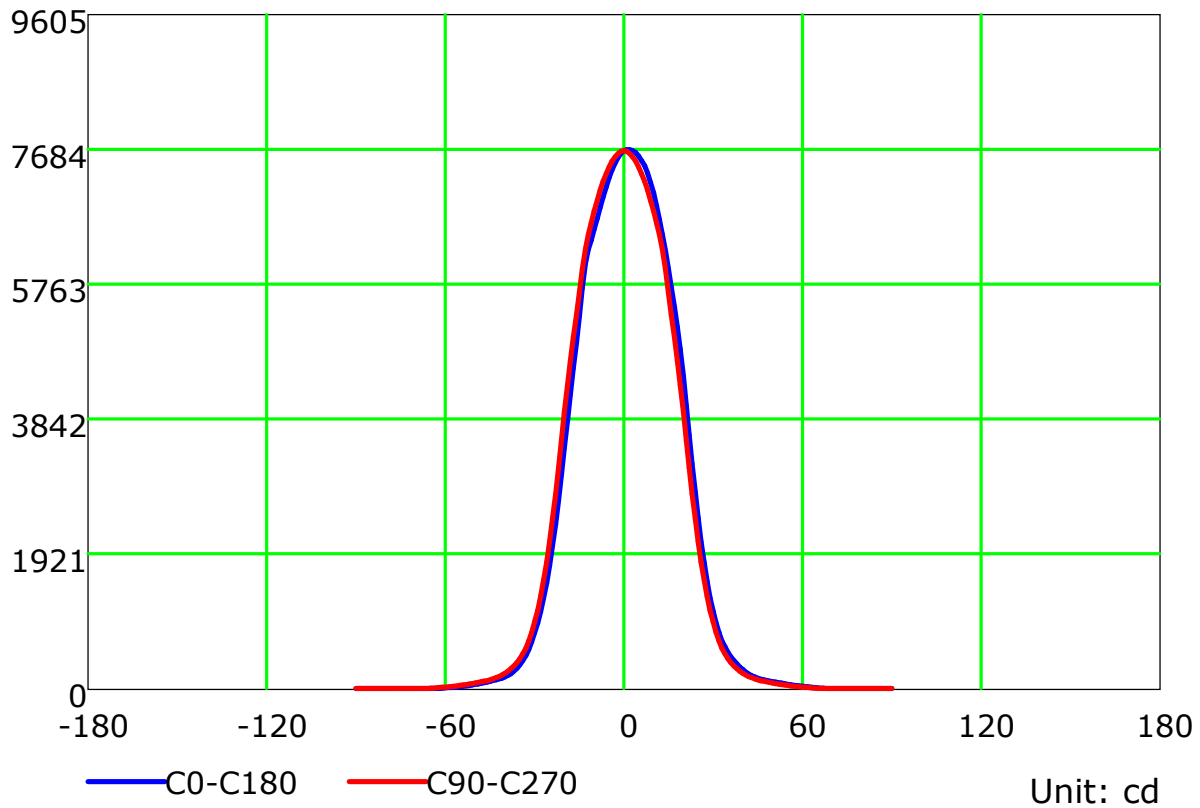
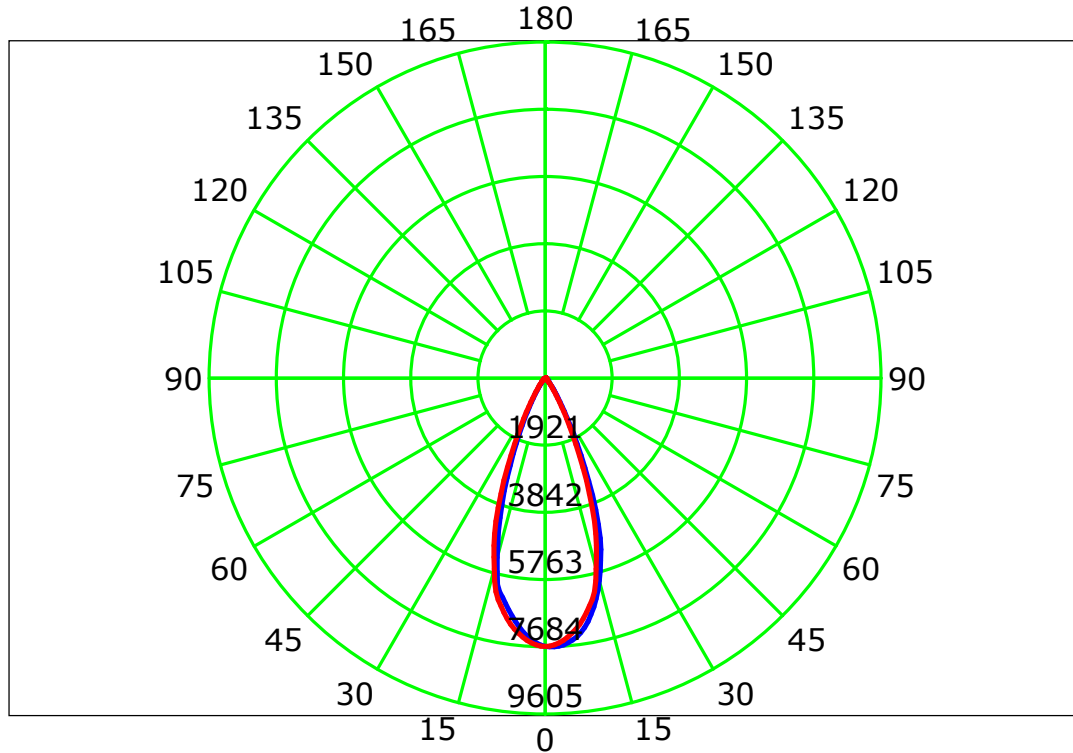
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

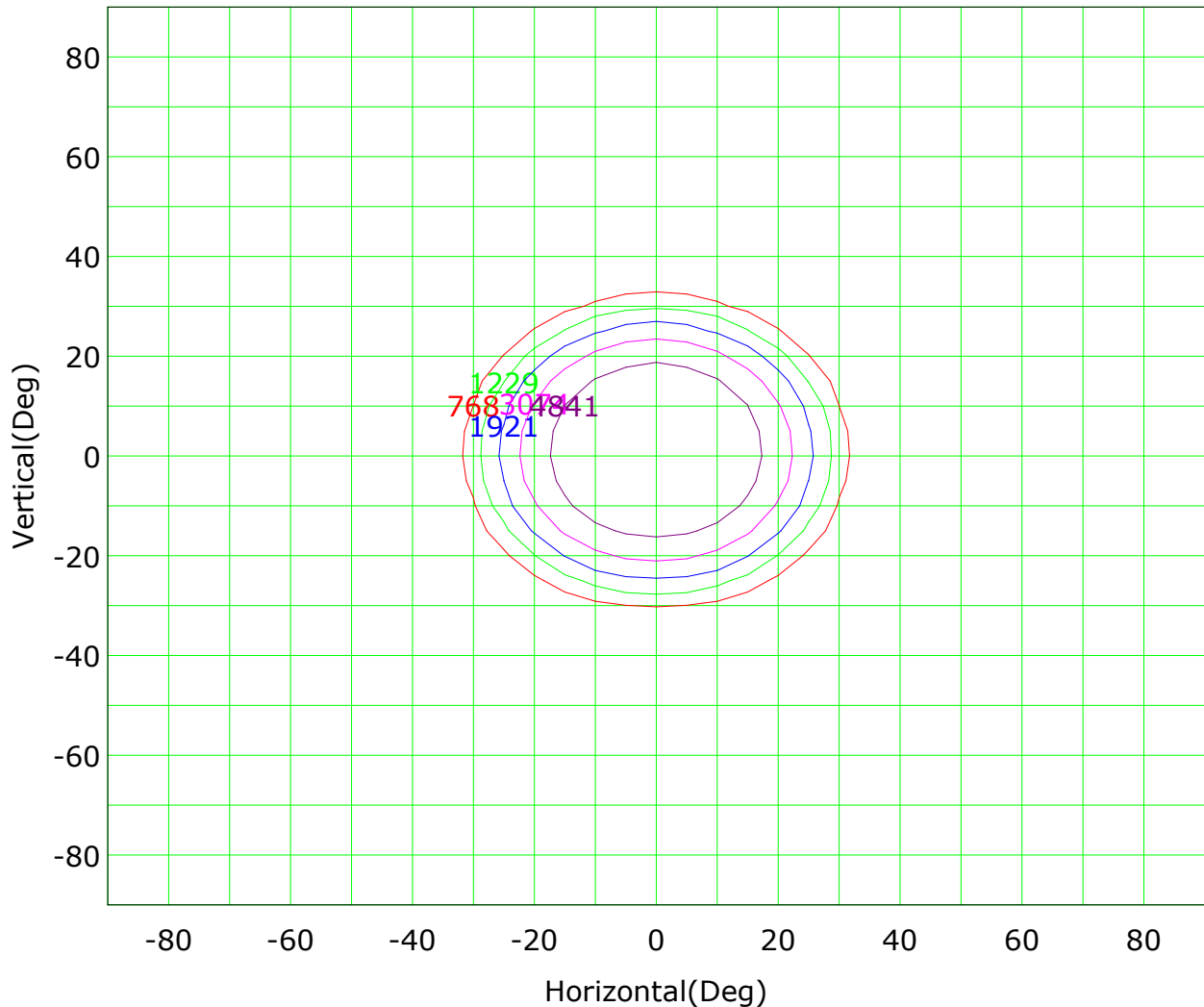
Luminous Intensity Distribution Curve



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%): 7684 cd

| | |
|-----------------|-----------------|
| (10%): 768 cd | (16%): 1229 cd |
| (25%): 1921 cd | (40%): 3074 cd |
| (63%): 4841 cd | (100%): 7684 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

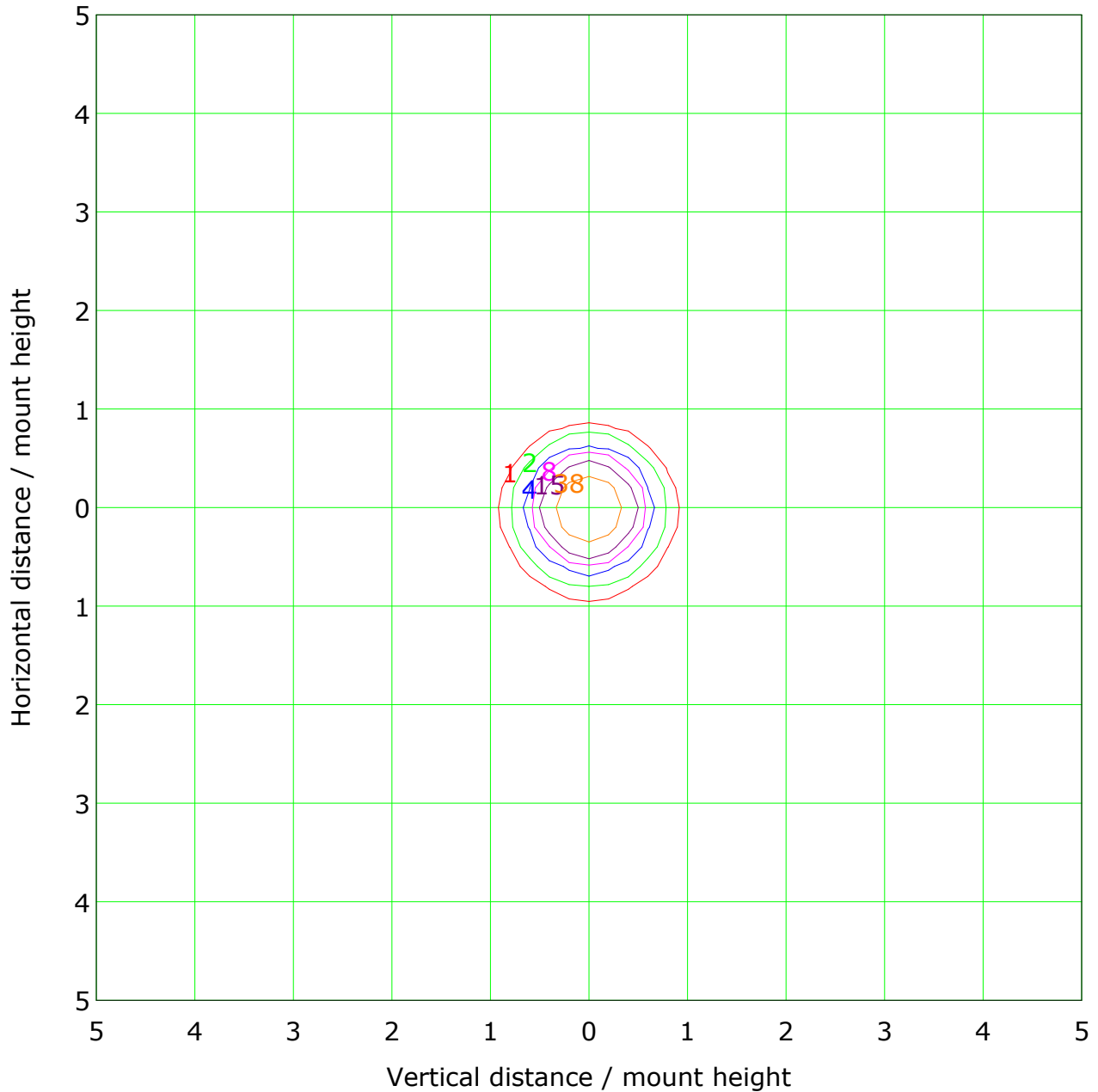
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

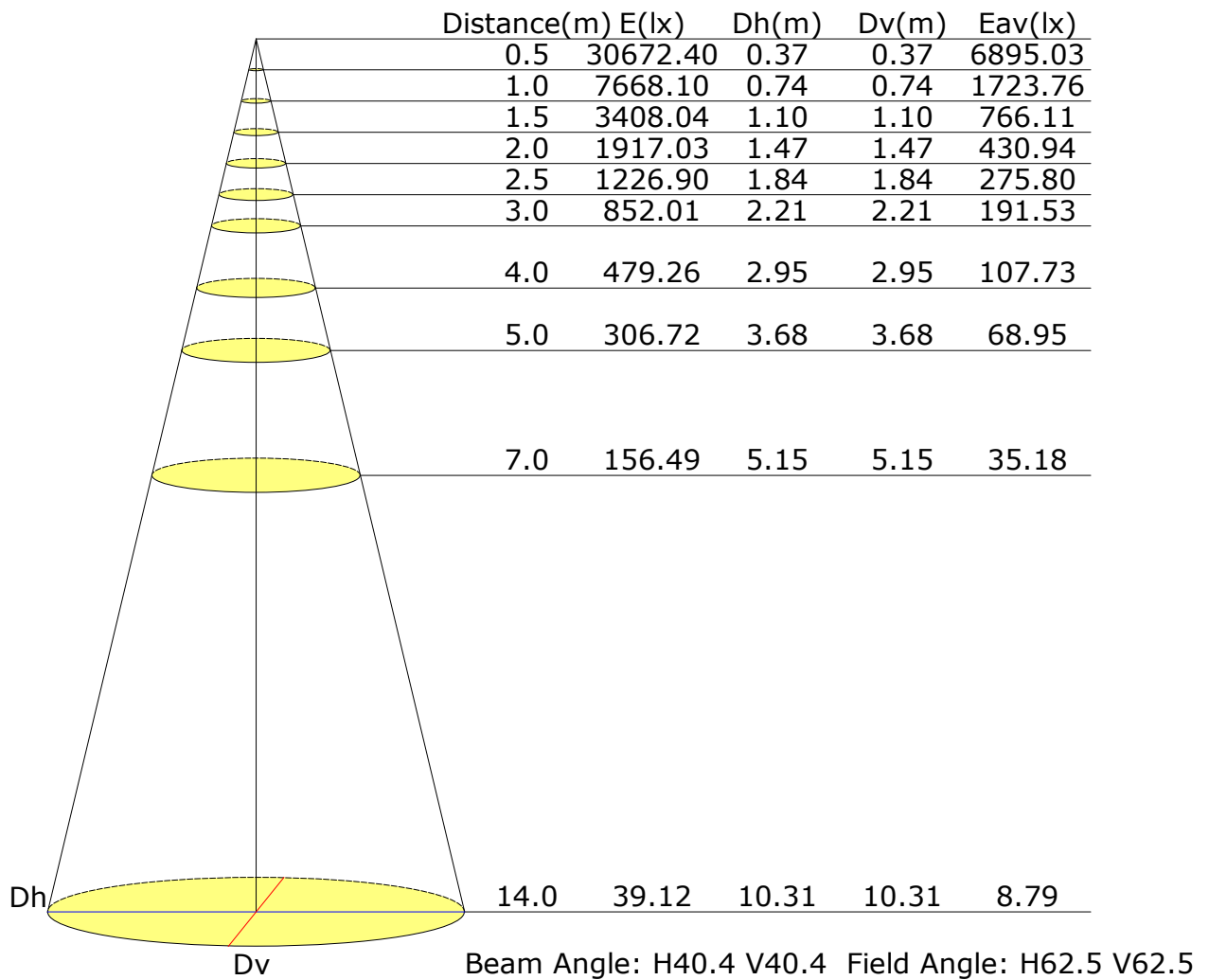


| | | | |
|----------------------|-------|----------------------|-------|
| Mounting Height: 10m | | Max Lux(100%): 77 lx | |
| — (1%): | 1 lx | — (2%): | 2 lx |
| — (5%): | 4 lx | — (10%): | 8 lx |
| — (20%): | 15 lx | — (50%): | 38 lx |
| — (100%): | 77 lx | | |

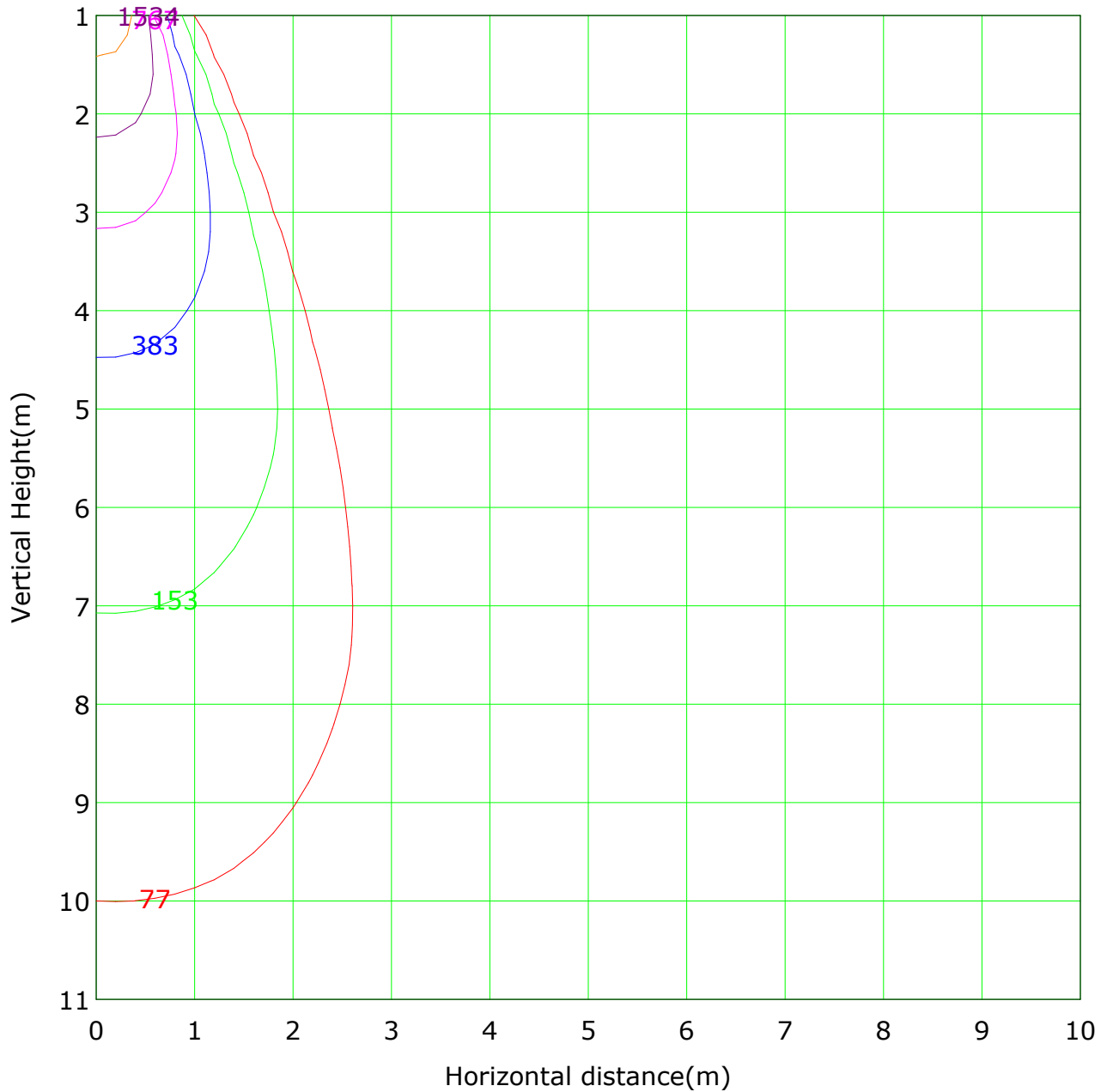
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



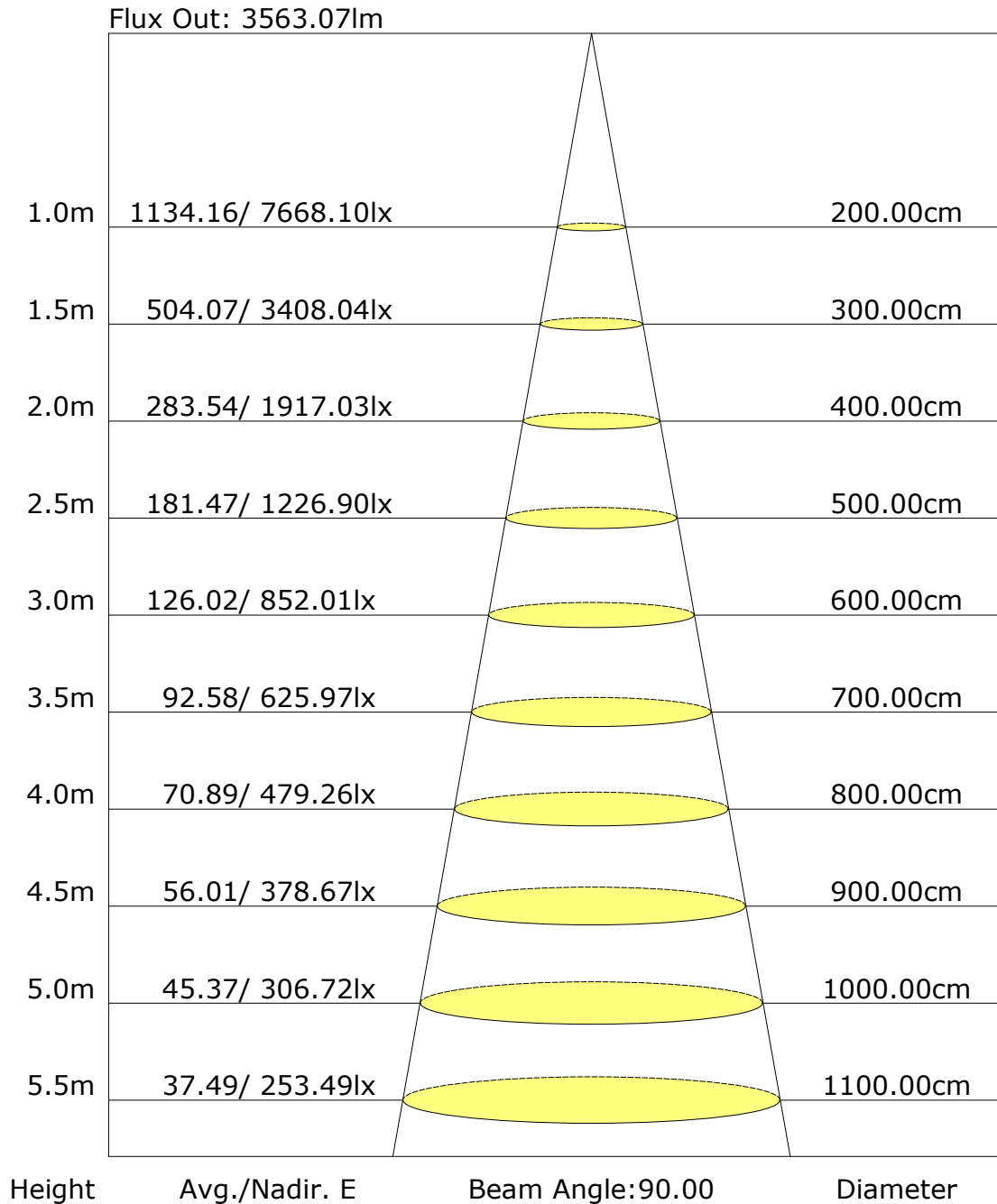
Lowest(m): 1m Highest(m): 11 Max Lux: 7668

| | |
|-----------------|-----------------|
| (1%): 77 lx | (2%): 153 lx |
| (5%): 383 lx | (10%): 767 lx |
| (20%): 1534 lx | (50%): 3834 lx |
| (100%): 7668 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



Zonal Lumen

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 0.0-1.0 | 7663.1 | 7.3 | 7.3 | 0.20 | 0.20 |
| 1.0-2.0 | 7643.8 | 21.9 | 29.3 | 0.60 | 0.80 |
| 2.0-3.0 | 7605.5 | 36.4 | 65.7 | 1.00 | 1.80 |
| 3.0-4.0 | 7549.7 | 50.5 | 116.2 | 1.38 | 3.18 |
| 4.0-5.0 | 7477.4 | 64.3 | 180.5 | 1.76 | 4.94 |
| 5.0-6.0 | 7387.9 | 77.7 | 258.2 | 2.13 | 7.07 |
| 6.0-7.0 | 7284.8 | 90.4 | 348.6 | 2.48 | 9.54 |
| 7.0-8.0 | 7168.2 | 102.6 | 451.2 | 2.81 | 12.35 |
| 8.0-9.0 | 7033.6 | 114.0 | 565.2 | 3.12 | 15.47 |
| 9.0-10.0 | 6883.0 | 124.6 | 689.8 | 3.41 | 18.88 |
| 10.0-11.0 | 6721.6 | 134.3 | 824.1 | 3.68 | 22.56 |
| 11.0-12.0 | 6556.7 | 143.3 | 967.5 | 3.92 | 26.48 |
| 12.0-13.0 | 6371.9 | 151.2 | 1118.7 | 4.14 | 30.62 |
| 13.0-14.0 | 6122.3 | 156.7 | 1275.4 | 4.29 | 34.91 |
| 14.0-15.0 | 5811.9 | 159.6 | 1435.0 | 4.37 | 39.28 |
| 15.0-16.0 | 5487.4 | 160.8 | 1595.8 | 4.40 | 43.68 |
| 16.0-17.0 | 5166.7 | 160.9 | 1756.7 | 4.40 | 48.09 |
| 17.0-18.0 | 4842.0 | 159.7 | 1916.4 | 4.37 | 52.46 |
| 18.0-19.0 | 4503.2 | 156.7 | 2073.1 | 4.29 | 56.75 |
| 19.0-20.0 | 4137.0 | 151.4 | 2224.5 | 4.15 | 60.89 |
| 20.0-21.0 | 3744.0 | 143.8 | 2368.3 | 3.94 | 64.83 |
| 21.0-22.0 | 3346.9 | 134.5 | 2502.8 | 3.68 | 68.51 |
| 22.0-23.0 | 2963.0 | 124.3 | 2627.2 | 3.40 | 71.91 |
| 23.0-24.0 | 2599.6 | 113.7 | 2740.9 | 3.11 | 75.02 |
| 24.0-25.0 | 2260.8 | 102.8 | 2843.7 | 2.81 | 77.84 |
| 25.0-26.0 | 1950.1 | 92.1 | 2935.7 | 2.52 | 80.36 |
| 26.0-27.0 | 1673.0 | 81.9 | 3017.6 | 2.24 | 82.60 |
| 27.0-28.0 | 1429.3 | 72.4 | 3090.0 | 1.98 | 84.58 |
| 28.0-29.0 | 1216.4 | 63.6 | 3153.6 | 1.74 | 86.32 |
| 29.0-30.0 | 1033.5 | 55.8 | 3209.4 | 1.53 | 87.85 |
| 30.0-31.0 | 876.1 | 48.8 | 3258.2 | 1.33 | 89.18 |
| 31.0-32.0 | 741.4 | 42.5 | 3300.7 | 1.16 | 90.35 |
| 32.0-33.0 | 629.2 | 37.1 | 3337.7 | 1.01 | 91.36 |
| 33.0-34.0 | 537.3 | 32.5 | 3370.3 | 0.89 | 92.25 |
| 34.0-35.0 | 462.2 | 28.7 | 3399.0 | 0.79 | 93.04 |
| 35.0-36.0 | 399.2 | 25.4 | 3424.4 | 0.70 | 93.73 |

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 | 346.6 | 22.6 | 3447.0 | 0.62 | 94.35 |
| 37.0-38.0 | 303.2 | 20.2 | 3467.2 | 0.55 | 94.91 |
| 38.0-39.0 | 266.2 | 18.2 | 3485.4 | 0.50 | 95.40 |
| 39.0-40.0 | 232.8 | 16.2 | 3501.6 | 0.44 | 95.85 |
| 40.0-41.0 | 205.1 | 14.6 | 3516.3 | 0.40 | 96.25 |
| 41.0-42.0 | 183.3 | 13.3 | 3529.6 | 0.36 | 96.61 |
| 42.0-43.0 | 164.2 | 12.2 | 3541.7 | 0.33 | 96.95 |
| 43.0-44.0 | 147.4 | 11.1 | 3552.9 | 0.30 | 97.25 |
| 44.0-45.0 | 132.8 | 10.2 | 3563.1 | 0.28 | 97.53 |
| 45.0-46.0 | 120.0 | 9.4 | 3572.5 | 0.26 | 97.79 |
| 46.0-47.0 | 109.7 | 8.7 | 3581.2 | 0.24 | 98.03 |
| 47.0-48.0 | 100.7 | 8.1 | 3589.3 | 0.22 | 98.25 |
| 48.0-49.0 | 91.9 | 7.6 | 3596.9 | 0.21 | 98.45 |
| 49.0-50.0 | 83.8 | 7.0 | 3603.9 | 0.19 | 98.65 |
| 50.0-51.0 | 76.0 | 6.4 | 3610.3 | 0.18 | 98.82 |
| 51.0-52.0 | 68.9 | 5.9 | 3616.2 | 0.16 | 98.98 |
| 52.0-53.0 | 62.3 | 5.4 | 3621.6 | 0.15 | 99.13 |
| 53.0-54.0 | 55.8 | 4.9 | 3626.5 | 0.13 | 99.27 |
| 54.0-55.0 | 49.2 | 4.4 | 3630.9 | 0.12 | 99.39 |
| 55.0-56.0 | 43.0 | 3.9 | 3634.8 | 0.11 | 99.49 |
| 56.0-57.0 | 37.1 | 3.4 | 3638.2 | 0.09 | 99.59 |
| 57.0-58.0 | 32.1 | 3.0 | 3641.2 | 0.08 | 99.67 |
| 58.0-59.0 | 28.1 | 2.6 | 3643.8 | 0.07 | 99.74 |
| 59.0-60.0 | 23.7 | 2.2 | 3646.1 | 0.06 | 99.80 |
| 60.0-61.0 | 19.9 | 1.9 | 3648.0 | 0.05 | 99.85 |
| 61.0-62.0 | 16.2 | 1.6 | 3649.5 | 0.04 | 99.90 |
| 62.0-63.0 | 11.5 | 1.1 | 3650.6 | 0.03 | 99.93 |
| 63.0-64.0 | 8.7 | 0.9 | 3651.5 | 0.02 | 99.95 |
| 64.0-65.0 | 7.2 | 0.7 | 3652.2 | 0.02 | 99.97 |
| 65.0-66.0 | 5.3 | 0.5 | 3652.7 | 0.01 | 99.98 |
| 66.0-67.0 | 3.7 | 0.4 | 3653.1 | 0.01 | 99.99 |
| 67.0-68.0 | 1.9 | 0.2 | 3653.3 | 0.01 | 100.00 |
| 68.0-69.0 | 0.3 | 0.0 | 3653.3 | 0.00 | 100.00 |
| 69.0-70.0 | 0.0 | 0.0 | 3653.3 | 0.00 | 100.00 |
| 70.0-71.0 | 0.0 | 0.0 | 3653.3 | 0.00 | 100.00 |
| 71.0-72.0 | 0.0 | 0.0 | 3653.3 | 0.00 | 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 | 7668.1 | 7668.1 | | | | | | | | |
| G1.0 | 7683.1 | 7633.2 | | | | | | | | |
| G2.0 | 7684.3 | 7574.6 | | | | | | | | |
| G3.0 | 7668.1 | 7494.8 | | | | | | | | |
| G4.0 | 7639.4 | 7396.3 | | | | | | | | |
| G5.0 | 7590.8 | 7282.9 | | | | | | | | |
| G6.0 | 7526.0 | 7152.0 | | | | | | | | |
| G7.0 | 7452.4 | 7008.6 | | | | | | | | |
| G8.0 | 7349.0 | 6862.8 | | | | | | | | |
| G9.0 | 7215.6 | 6706.9 | | | | | | | | |
| G10.0 | 7064.7 | 6544.9 | | | | | | | | |
| G11.0 | 6885.2 | 6391.5 | | | | | | | | |
| G12.0 | 6689.5 | 6260.6 | | | | | | | | |
| G13.0 | 6476.3 | 6061.2 | | | | | | | | |
| G14.0 | 6241.9 | 5709.6 | | | | | | | | |
| G15.0 | 5991.4 | 5304.5 | | | | | | | | |
| G16.0 | 5723.3 | 4930.5 | | | | | | | | |
| G17.0 | 5442.8 | 4570.2 | | | | | | | | |
| G18.0 | 5153.6 | 4201.2 | | | | | | | | |
| G19.0 | 4838.2 | 3819.7 | | | | | | | | |
| G20.0 | 4458.0 | 3432.0 | | | | | | | | |
| G21.0 | 4036.6 | 3049.3 | | | | | | | | |
| G22.0 | 3617.8 | 2684.0 | | | | | | | | |
| G23.0 | 3203.9 | 2346.2 | | | | | | | | |
| G24.0 | 2809.9 | 2038.3 | | | | | | | | |
| G25.0 | 2438.4 | 1756.5 | | | | | | | | |
| G26.0 | 2098.1 | 1507.2 | | | | | | | | |
| G27.0 | 1796.4 | 1290.3 | | | | | | | | |
| G28.0 | 1532.1 | 1098.3 | | | | | | | | |
| G29.0 | 1299.0 | 936.2 | | | | | | | | |
| G30.0 | 1103.3 | 795.4 | | | | | | | | |
| G31.0 | 937.5 | 668.2 | | | | | | | | |
| G32.0 | 800.3 | 559.7 | | | | | | | | |
| G33.0 | 684.4 | 472.5 | | | | | | | | |
| G34.0 | 594.7 | 397.7 | | | | | | | | |
| G35.0 | 517.4 | 339.1 | | | | | | | | |
| G36.0 | 452.5 | 288.0 | | | | | | | | |

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 | 398.9 | 246.8 | | | | | | | | |
| G38.0 | 355.3 | 211.9 | | | | | | | | |
| G39.0 | 309.2 | 188.2 | | | | | | | | |
| G40.0 | 269.3 | 164.6 | | | | | | | | |
| G41.0 | 236.9 | 149.6 | | | | | | | | |
| G42.0 | 209.4 | 137.1 | | | | | | | | |
| G43.0 | 185.8 | 124.7 | | | | | | | | |
| G44.0 | 164.6 | 114.7 | | | | | | | | |
| G45.0 | 149.6 | 102.2 | | | | | | | | |
| G46.0 | 134.6 | 93.5 | | | | | | | | |
| G47.0 | 127.2 | 83.5 | | | | | | | | |
| G48.0 | 117.2 | 74.8 | | | | | | | | |
| G49.0 | 108.5 | 67.3 | | | | | | | | |
| G50.0 | 99.7 | 59.8 | | | | | | | | |
| G51.0 | 93.5 | 51.1 | | | | | | | | |
| G52.0 | 86.0 | 44.9 | | | | | | | | |
| G53.0 | 78.5 | 39.9 | | | | | | | | |
| G54.0 | 71.1 | 33.7 | | | | | | | | |
| G55.0 | 62.3 | 29.9 | | | | | | | | |
| G56.0 | 54.8 | 24.9 | | | | | | | | |
| G57.0 | 48.6 | 20.0 | | | | | | | | |
| G58.0 | 42.4 | 17.5 | | | | | | | | |
| G59.0 | 37.4 | 15.0 | | | | | | | | |
| G60.0 | 32.4 | 10.0 | | | | | | | | |
| G61.0 | 28.7 | 8.7 | | | | | | | | |
| G62.0 | 23.7 | 3.7 | | | | | | | | |
| G63.0 | 18.7 | 0.0 | | | | | | | | |
| G64.0 | 16.2 | 0.0 | | | | | | | | |
| G65.0 | 12.5 | 0.0 | | | | | | | | |
| G66.0 | 8.7 | 0.0 | | | | | | | | |
| G67.0 | 6.2 | 0.0 | | | | | | | | |
| G68.0 | 1.3 | 0.0 | | | | | | | | |
| G69.0 | 0.0 | 0.0 | | | | | | | | |
| G70.0 | 0.0 | 0.0 | | | | | | | | |
| G71.0 | 0.0 | 0.0 | | | | | | | | |
| 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:

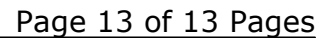
Gamma Plane (°):0.0-90.0:1.0

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: