

Report No.: 51.05511 Recessed Downlight Test Time: 2022-05-25 19:27

Luminaire Property

Luminaire Category: Bridgelux V4HD 3000K CRI90

Voltage: 217.3 V

Current: 0.060 A

Power: 7.30 W

Power Factor: 0.552

Photometric Results

CIE Class: Direct

Measurement Flux: 531.5 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 531.5 lm

Efficiency: 100%

Upward Ratio: 0%

Horizontal Diffuse Angle(25%,50%,75%,100%): H28.6,H20.6,H13.7,H1

Vertical Diffuse Angle(25%,50%,75%,100%): V28.6,V20.6,V13.7,V1

Luminaire Efficacy Rating (LER): 73

Central Intensity: 3541.42 cd

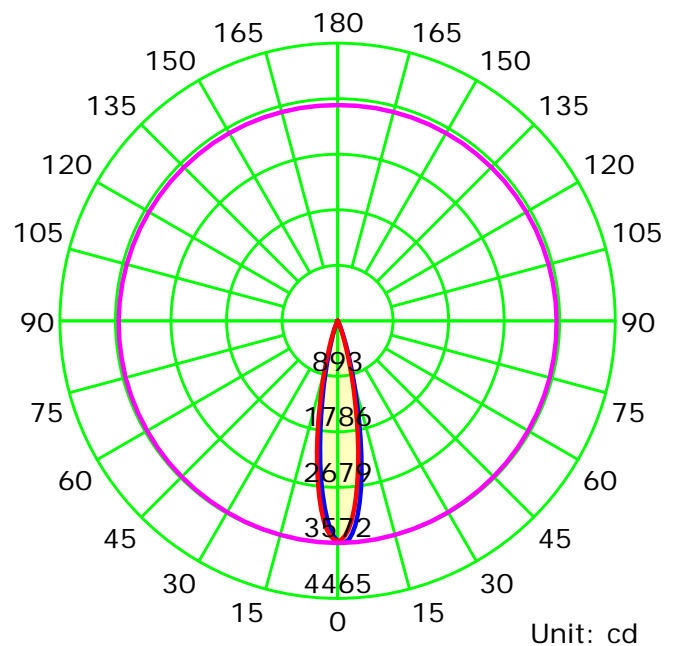
Max. Intensity: 3573.06 cd

Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 20.6°

— 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

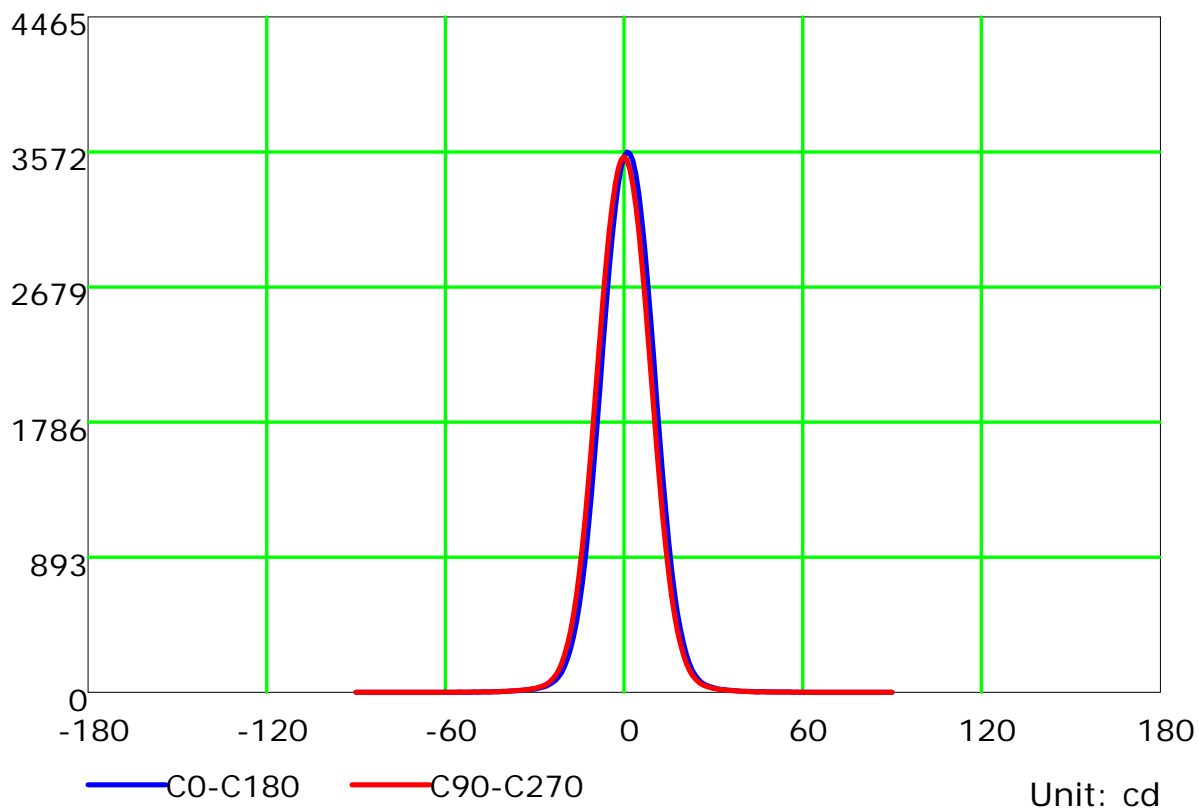
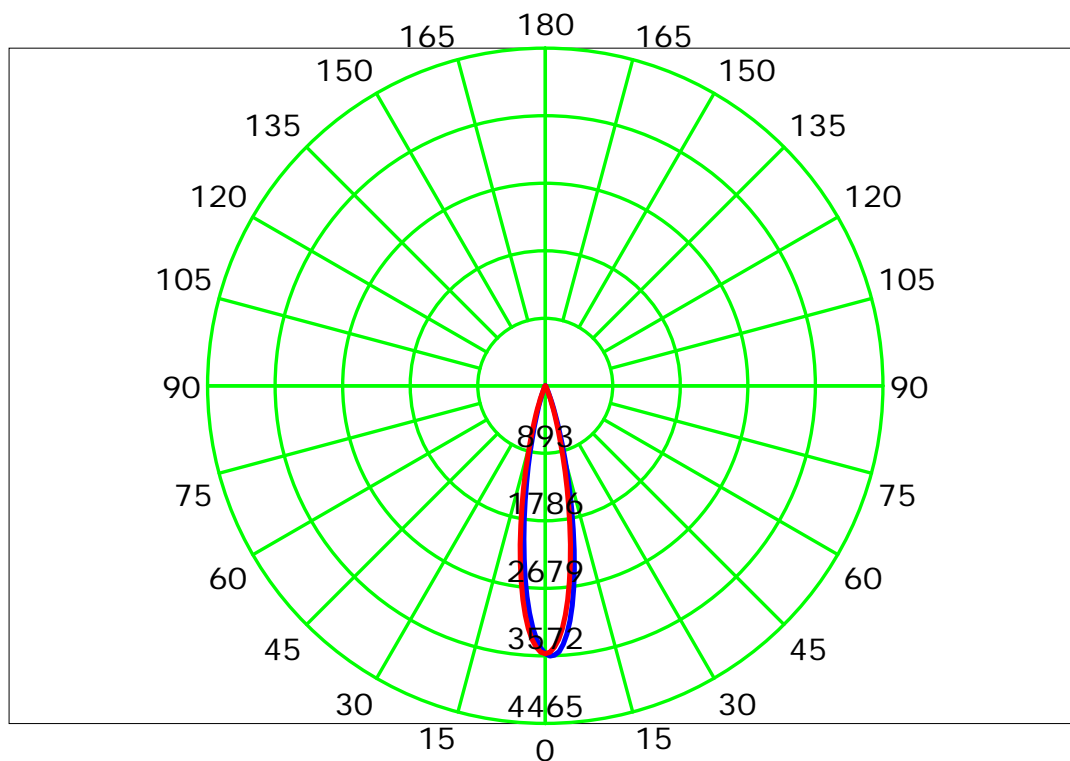
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

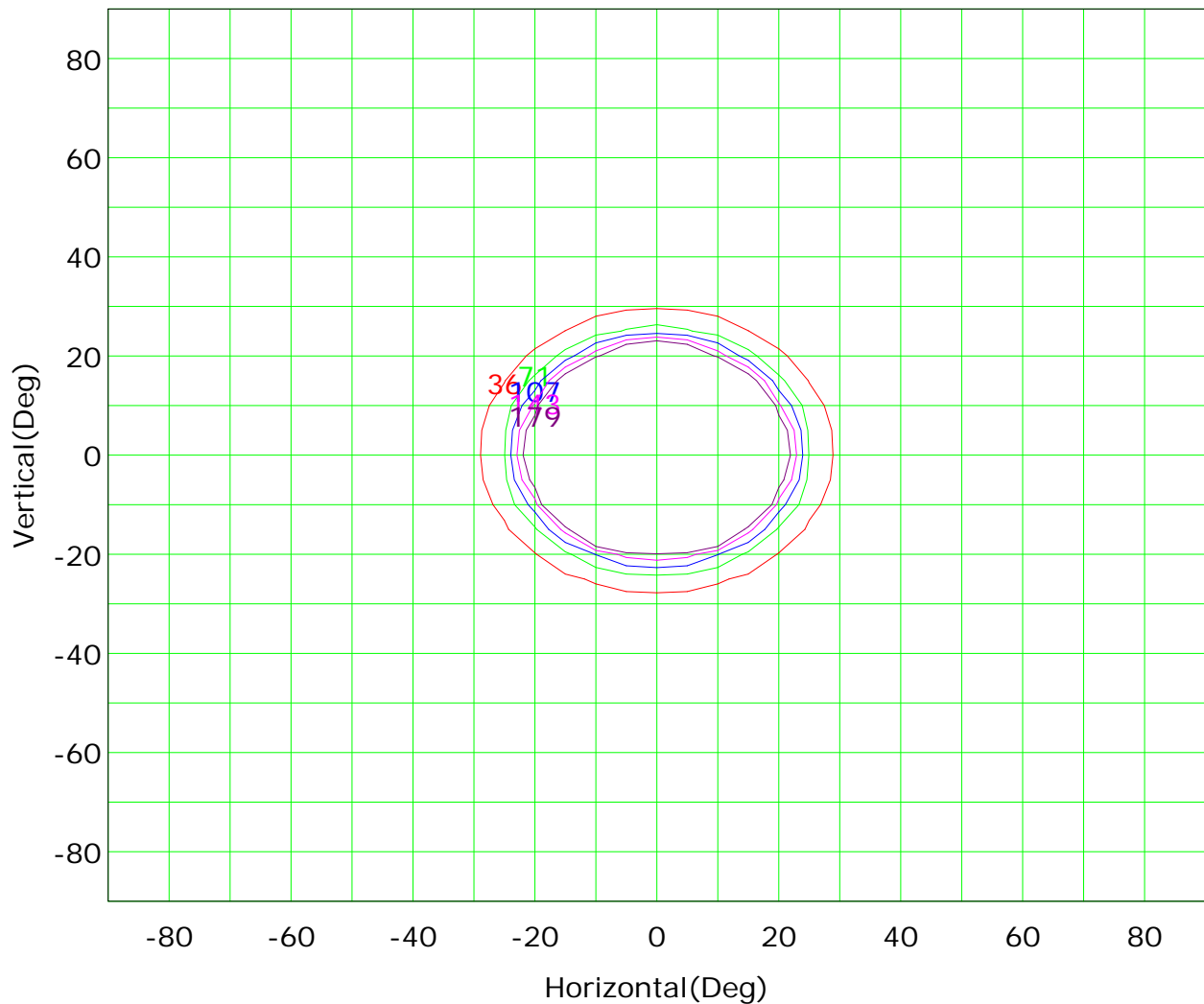
Luminous Intensity Distribution Curve



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: 3.000 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 3573 cd

| | |
|---------------|---------------|
| (1%): 36 cd | (2%): 71 cd |
| (3%): 107 cd | (4%): 143 cd |
| (5%): 179 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

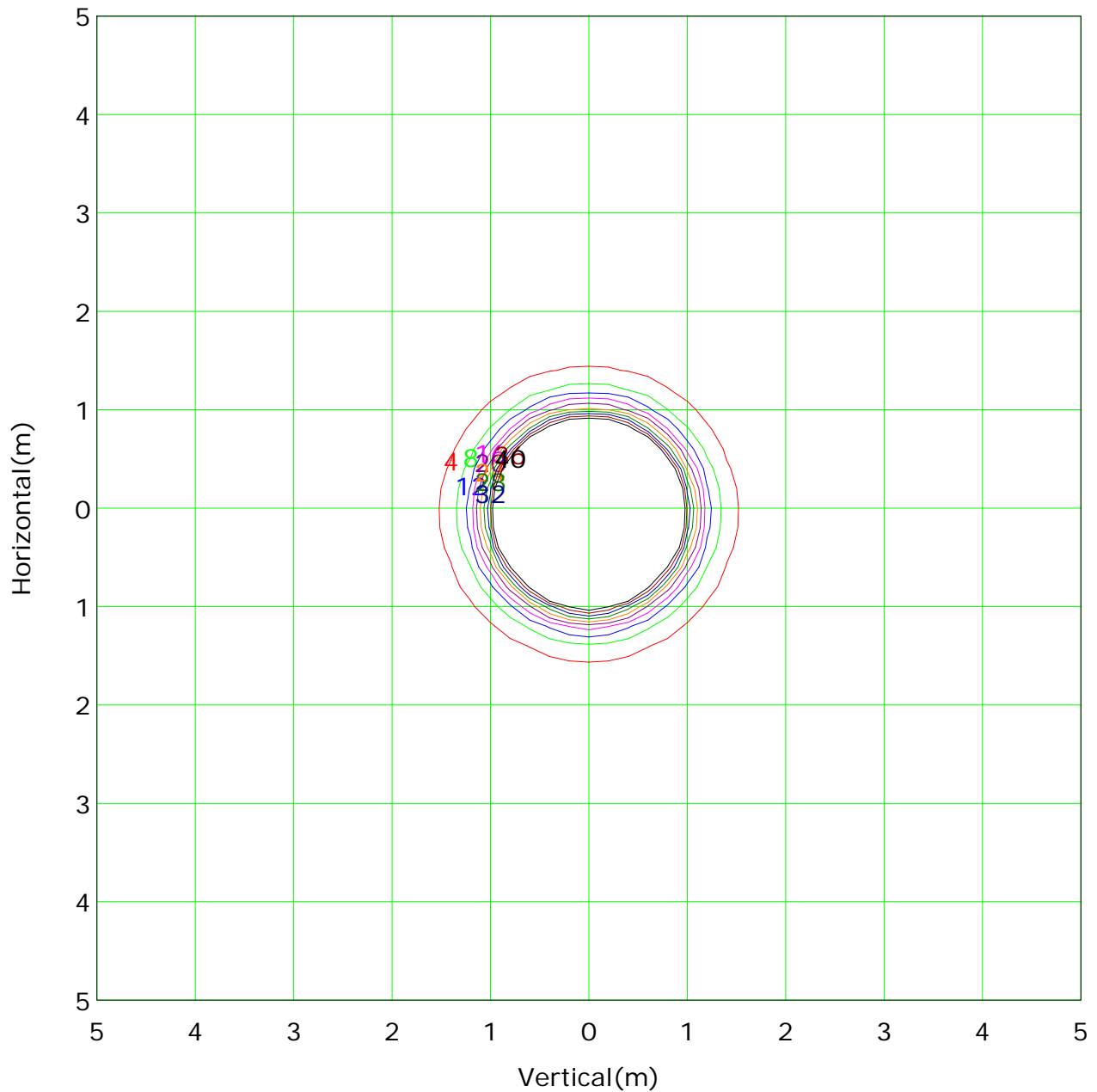
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

IsoLux Plot



| | | | |
|---------------------|-------|-----------------------|-------|
| Mounting Height: 3m | | Max Lux(100%): 397 lx | |
| — (1%): | 4 lx | — (2%): | 8 lx |
| — (3%): | 12 lx | — (4%): | 16 lx |
| — (5%): | 20 lx | — (6%): | 24 lx |
| — (7%): | 28 lx | — (8%): | 32 lx |
| — (9%): | 36 lx | — (10%): | 40 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

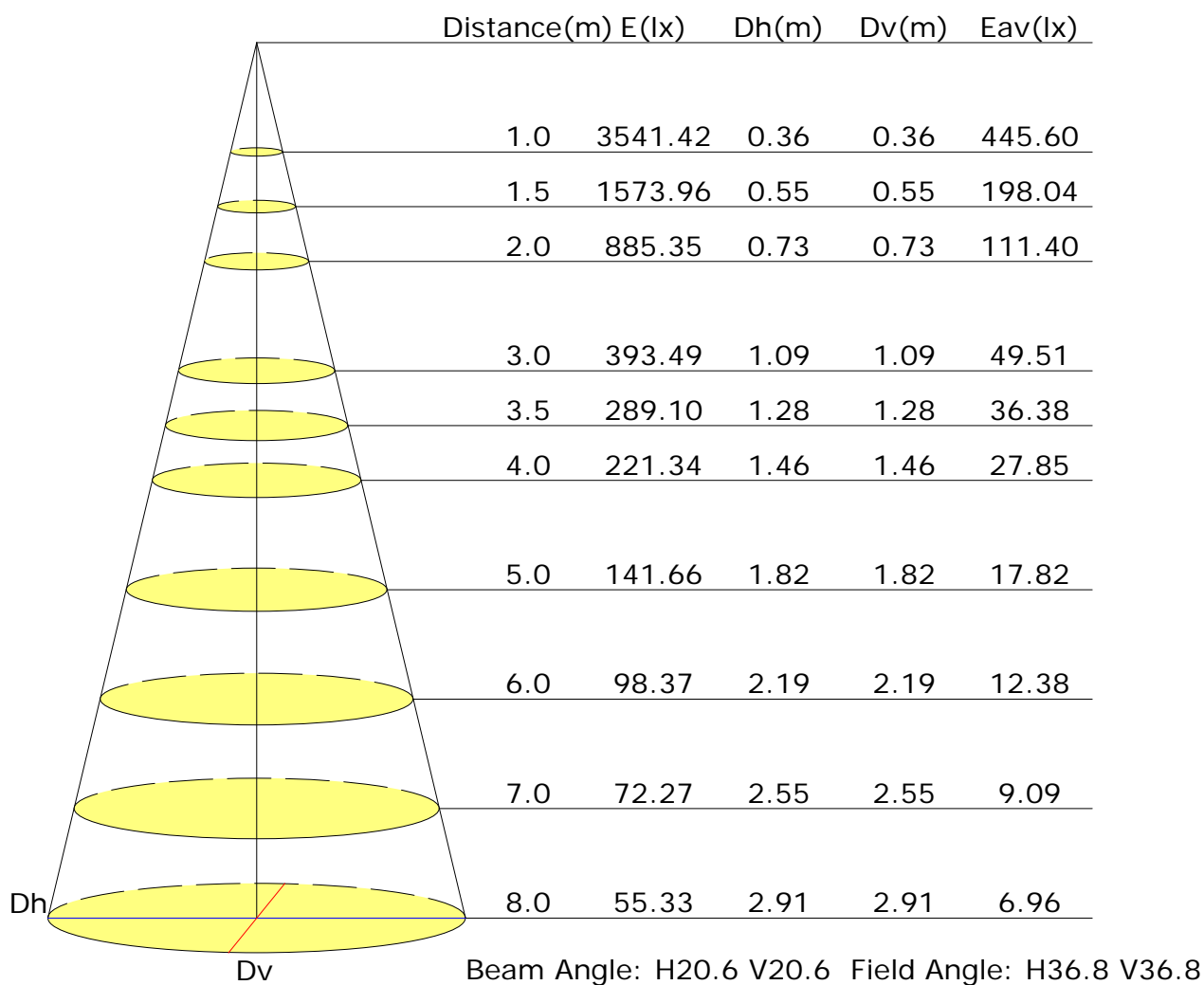
Test Device: CHL-6E

Distance: 3.000 m

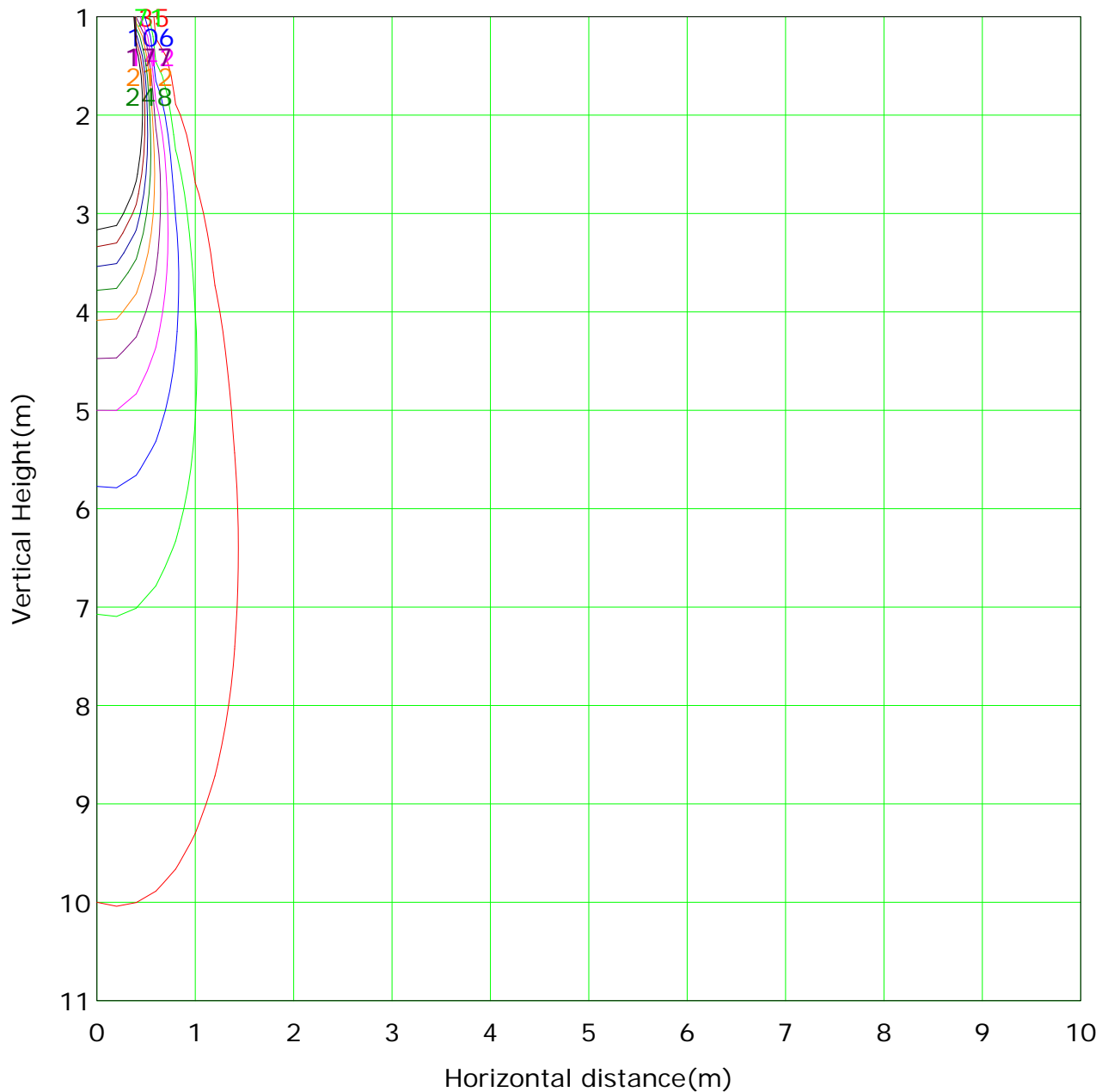
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



| | |
|--|------------------|
| Lowest(m): 1m Highest(m): 11 Max Lux: 3541 | |
| (1%): 35 lx | (2%): 71 lx |
| (3%): 106 lx | (4%): 142 lx |
| (5%): 177 lx | (6%): 212 lx |
| (7%): 248 lx | (8%): 283 lx |
| (9%): 319 lx | (10%): 354 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

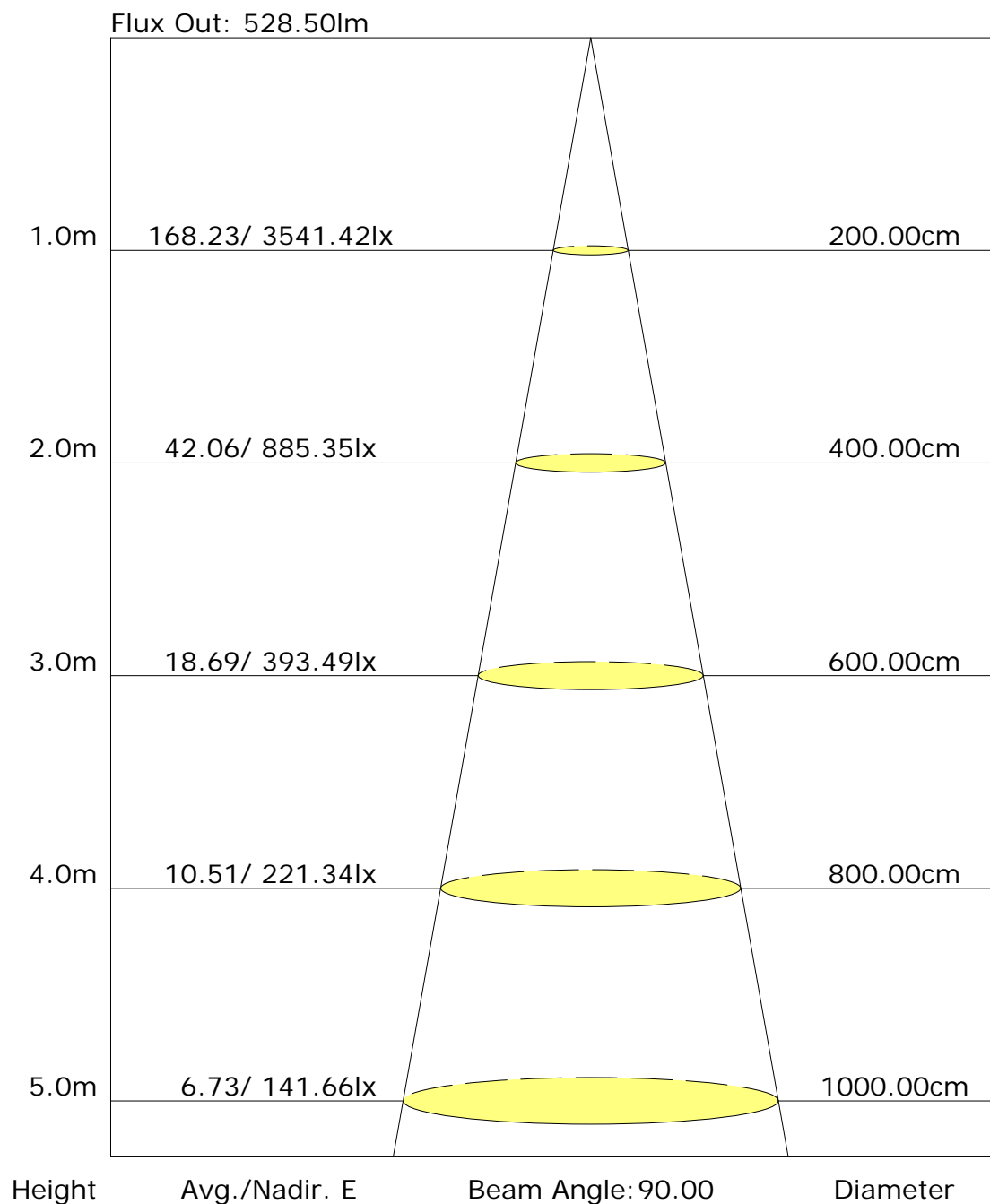
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

The average illuminance effective figure



Candlepower Table

Unit: cd

| GVC | C0.0 | C180.0 | | | | | | | | |
|-------|--------|--------|--|--|--|--|--|--|--|--|
| G0.0 | 3541.4 | 3541.4 | | | | | | | | |
| G1.0 | 3573.1 | 3470.9 | | | | | | | | |
| G2.0 | 3562.2 | 3352.6 | | | | | | | | |
| G3.0 | 3517.9 | 3198.0 | | | | | | | | |
| G4.0 | 3425.8 | 3011.0 | | | | | | | | |
| G5.0 | 3293.8 | 2796.8 | | | | | | | | |
| G6.0 | 3124.8 | 2562.8 | | | | | | | | |
| G7.0 | 2928.7 | 2307.9 | | | | | | | | |
| G8.0 | 2705.5 | 2046.8 | | | | | | | | |
| G9.0 | 2461.6 | 1786.5 | | | | | | | | |
| G10.0 | 2204.9 | 1537.1 | | | | | | | | |
| G11.0 | 1935.6 | 1304.9 | | | | | | | | |
| G12.0 | 1679.9 | 1089.8 | | | | | | | | |
| G13.0 | 1441.3 | 893.7 | | | | | | | | |
| G14.0 | 1211.8 | 724.7 | | | | | | | | |
| G15.0 | 997.6 | 582.0 | | | | | | | | |
| G16.0 | 814.2 | 465.4 | | | | | | | | |
| G17.0 | 652.4 | 366.9 | | | | | | | | |
| G18.0 | 520.5 | 289.2 | | | | | | | | |
| G19.0 | 413.0 | 224.1 | | | | | | | | |
| G20.0 | 322.6 | 171.7 | | | | | | | | |
| G21.0 | 248.5 | 131.0 | | | | | | | | |
| G22.0 | 188.9 | 103.0 | | | | | | | | |
| G23.0 | 144.6 | 81.3 | | | | | | | | |
| G24.0 | 111.2 | 65.1 | | | | | | | | |
| G25.0 | 85.8 | 53.3 | | | | | | | | |
| G26.0 | 66.0 | 43.4 | | | | | | | | |
| G27.0 | 53.3 | 36.2 | | | | | | | | |
| G28.0 | 44.3 | 30.7 | | | | | | | | |
| G29.0 | 37.0 | 27.1 | | | | | | | | |
| G30.0 | 30.7 | 21.7 | | | | | | | | |
| G31.0 | 26.2 | 20.8 | | | | | | | | |
| G32.0 | 21.7 | 18.1 | | | | | | | | |
| G33.0 | 19.0 | 16.3 | | | | | | | | |
| G34.0 | 17.2 | 13.6 | | | | | | | | |
| G35.0 | 14.5 | 11.8 | | | | | | | | |
| G36.0 | 13.6 | 11.8 | | | | | | | | |

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: 3.000 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

| GVC | C0.0 | C180.0 | | | | | | | | |
|-------|------|--------|--|--|--|--|--|--|--|--|
| G37.0 | 11.8 | 9.9 | | | | | | | | |
| G38.0 | 9.9 | 9.0 | | | | | | | | |
| G39.0 | 8.1 | 7.2 | | | | | | | | |
| G40.0 | 7.2 | 6.3 | | | | | | | | |
| G41.0 | 7.2 | 6.3 | | | | | | | | |
| G42.0 | 6.3 | 3.6 | | | | | | | | |
| G43.0 | 6.3 | 3.6 | | | | | | | | |
| G44.0 | 3.6 | 4.5 | | | | | | | | |
| G45.0 | 3.6 | 2.7 | | | | | | | | |
| G46.0 | 4.5 | 2.7 | | | | | | | | |
| G47.0 | 4.5 | 3.6 | | | | | | | | |
| G48.0 | 2.7 | 2.7 | | | | | | | | |
| G49.0 | 3.6 | 0.9 | | | | | | | | |
| G50.0 | 2.7 | 2.7 | | | | | | | | |
| G51.0 | 2.7 | 1.8 | | | | | | | | |
| G52.0 | 2.7 | 0.9 | | | | | | | | |
| G53.0 | 2.7 | 0.9 | | | | | | | | |
| G54.0 | 2.7 | 0.9 | | | | | | | | |
| G55.0 | 2.7 | 1.8 | | | | | | | | |
| G56.0 | 2.7 | 0.9 | | | | | | | | |
| G57.0 | 0.9 | 0.9 | | | | | | | | |
| G58.0 | 1.8 | 0.9 | | | | | | | | |
| G59.0 | 0.9 | 0.9 | | | | | | | | |
| G60.0 | 0.9 | 1.8 | | | | | | | | |
| G61.0 | 0.9 | 0.0 | | | | | | | | |
| G62.0 | 1.8 | 0.0 | | | | | | | | |
| G63.0 | 0.0 | 0.0 | | | | | | | | |
| G64.0 | 0.0 | 0.0 | | | | | | | | |
| G65.0 | 0.0 | 0.0 | | | | | | | | |
| G66.0 | 0.0 | 0.0 | | | | | | | | |
| G67.0 | 0.0 | 0.0 | | | | | | | | |
| G68.0 | 0.0 | 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: 3.000 m

Humidity:

Inspector:

Unit: cd

Inspector: