

Report No.:56.04011-Recessed Downlight Test Time: 2022-04-28 10:13

Luminaire Property

Luminaire Category: Citizen 701 3000K CRI90

Voltage: 217.7 V

Current: 0.044 A

Power: 8.90 W

Power Factor: 0.925

Photometric Results

CIE Class: Direct

Measurement Flux: 708.5 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 708.5 lm

Efficiency: 100%

Upward Ratio: 0%

Horizontal Diffuse Angle(25%,50%,75%,100%): H32.7,H24.3,H16.8,H2

Vertical Diffuse Angle(25%,50%,75%,100%): V32.7,V24.3,V16.8,V2

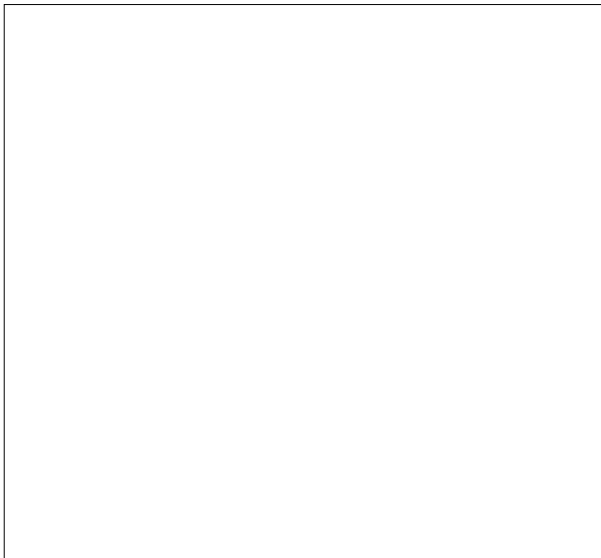
Luminaire Efficacy Rating (LER): 80

Central Intensity: 3217.91 cd

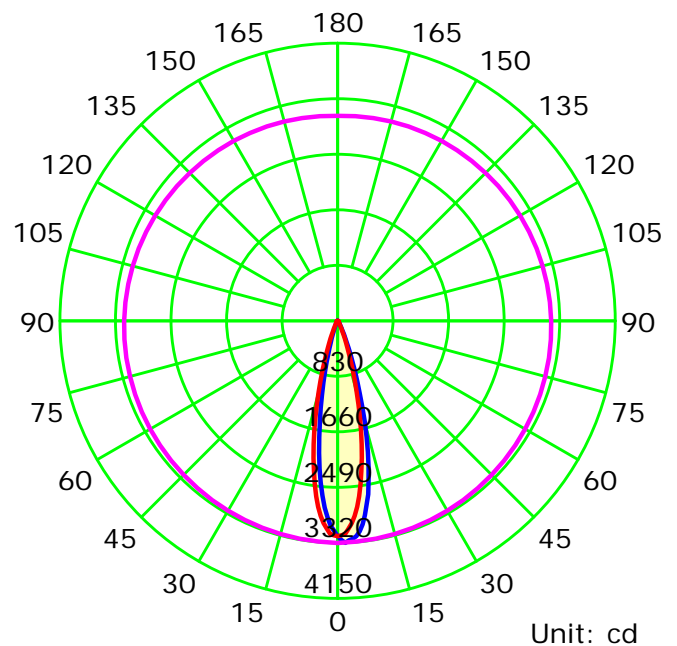
Max. Intensity: 3320.04 cd

Pos of Max. Intensity: H0 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 24.3°

— 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

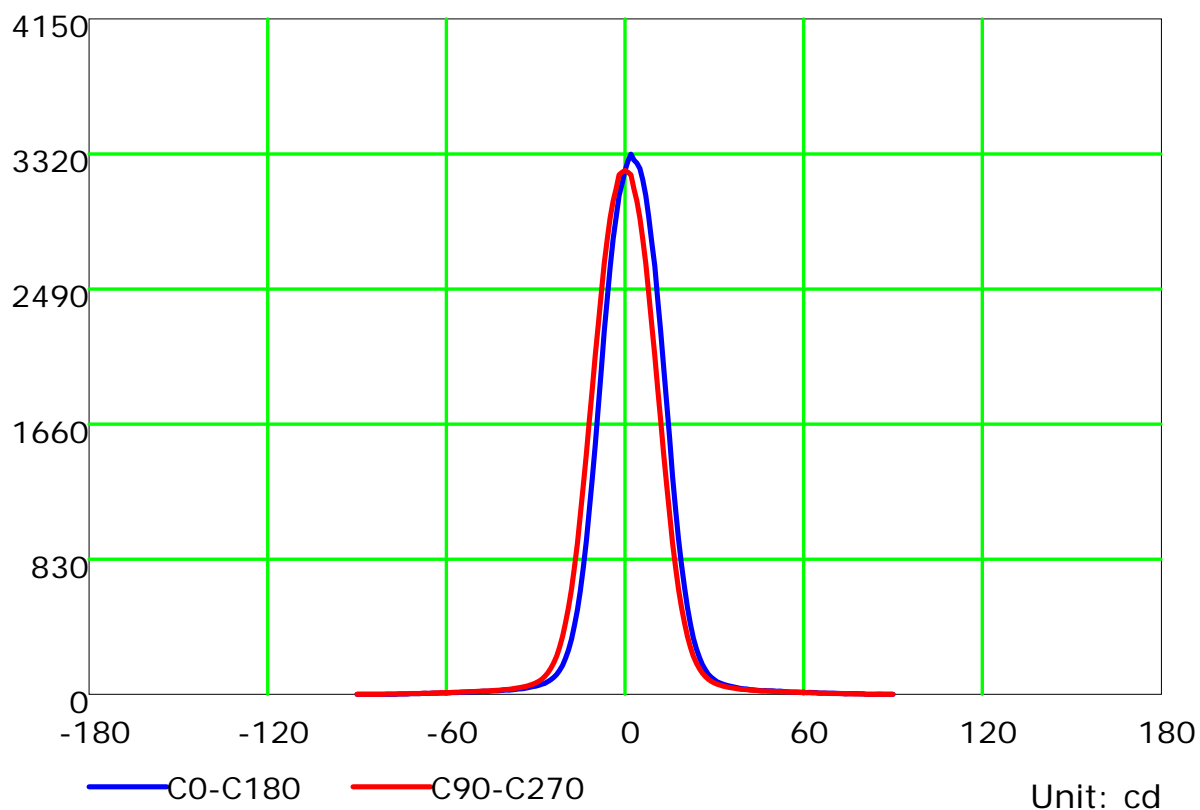
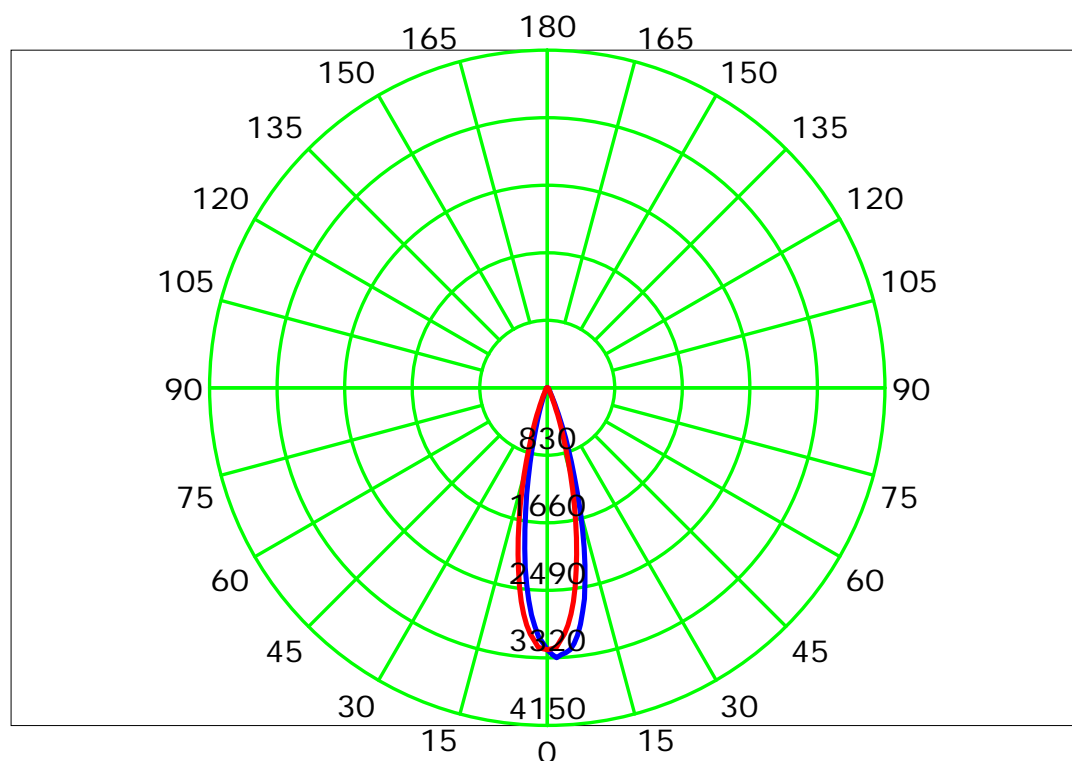
Test Device: CHL-6E

Distance: 3.000 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

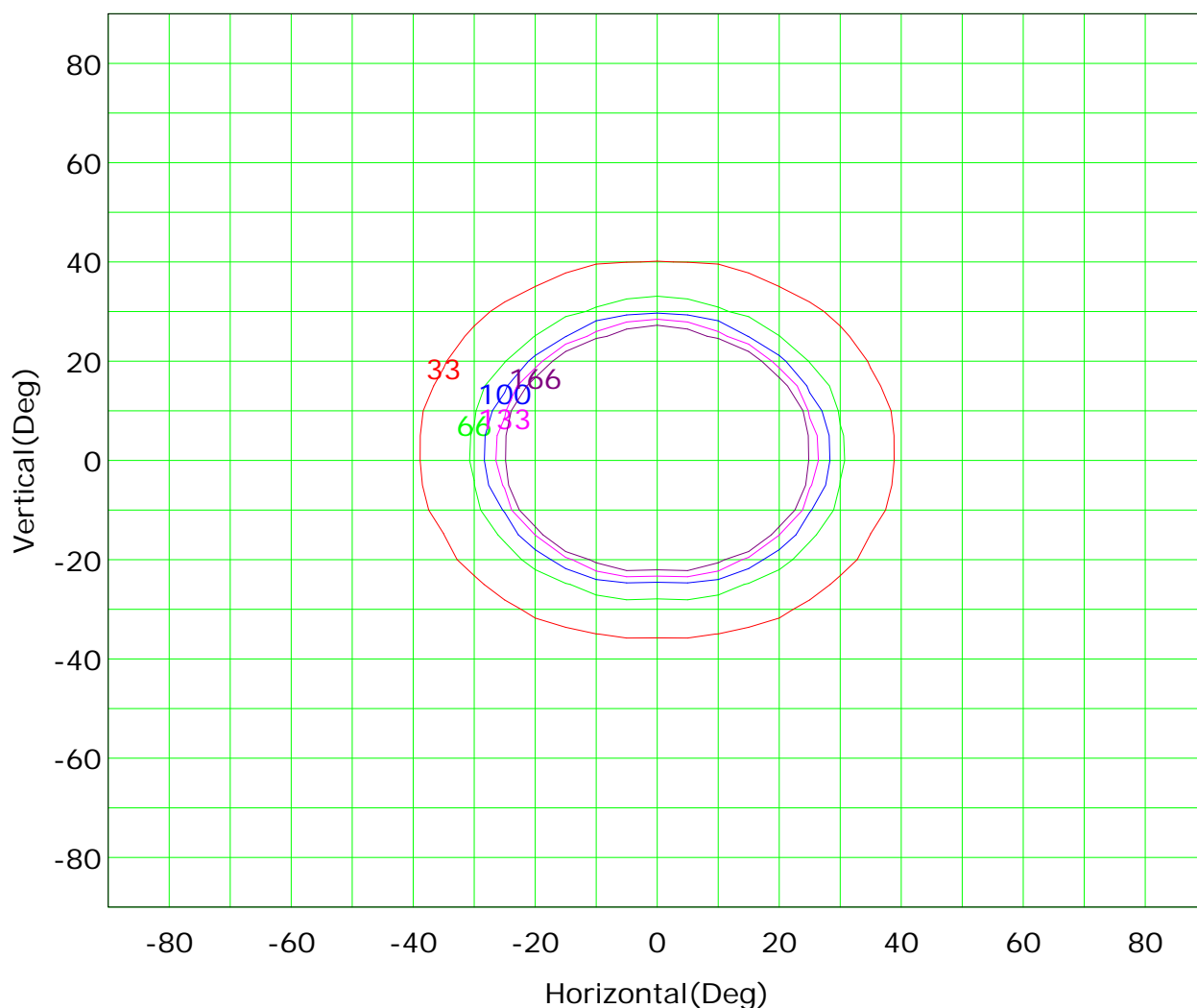
Distance: 3.000 m

Humidity:

Inspector:

Unit: cd

Isocandela (rectangle)



I_{max} (100%): 3320 cd

— (1%): 33 cd
— (3%): 100 cd
— (5%): 166 cd

— (2%): 66 cd
— (4%): 133 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

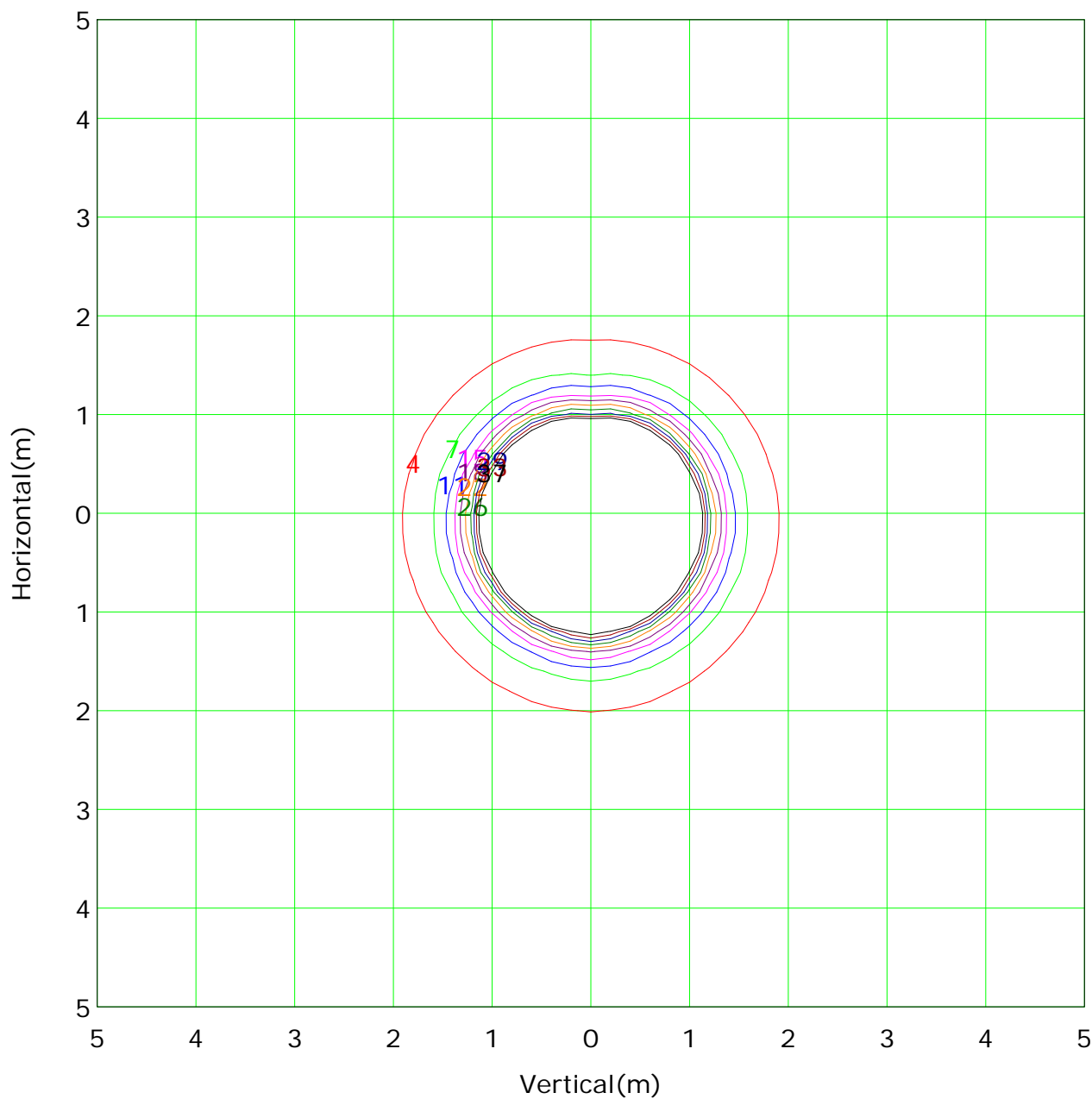
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 3m Max Lux(100%): 368 lx

(1%): 4 lx	(2%): 7 lx
(3%): 11 lx	(4%): 15 lx
(5%): 18 lx	(6%): 22 lx
(7%): 26 lx	(8%): 29 lx
(9%): 33 lx	(10%): 37 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

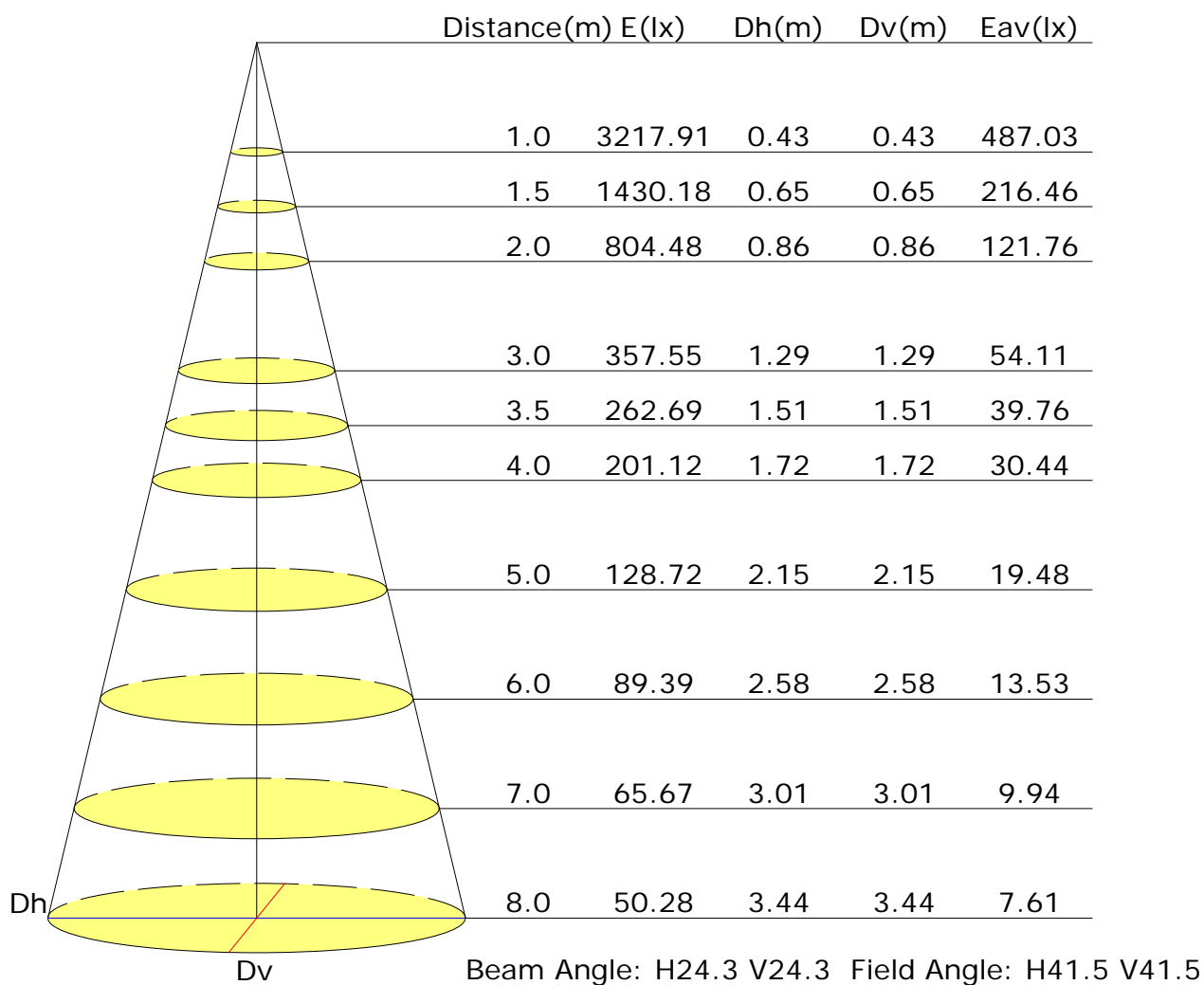
Test Device: CHL-6E

Distance: 3.000 m

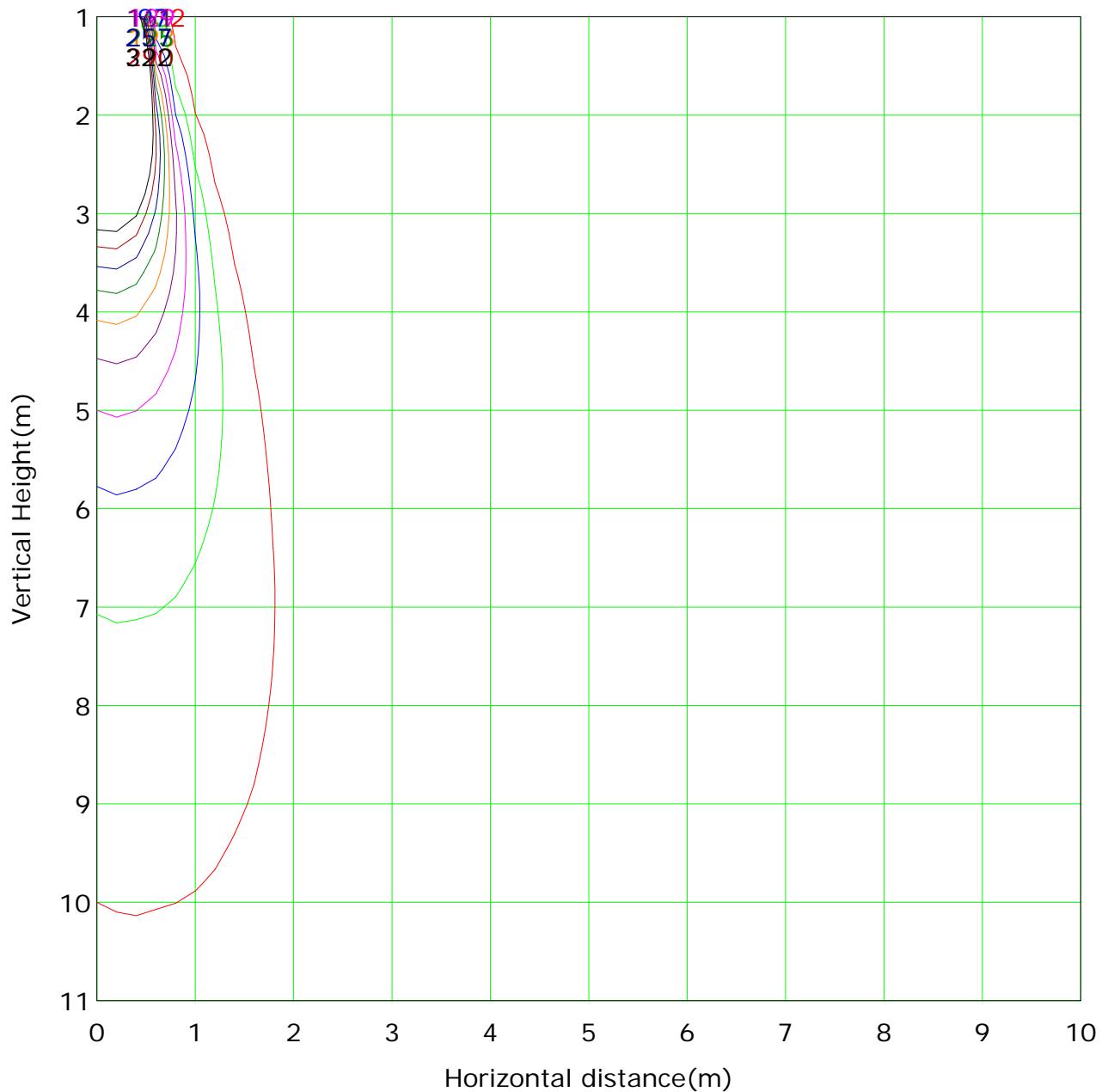
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1m Highest(m): 11 Max Lux: 3218	
(1%): 32 lx	(2%): 64 lx
(3%): 97 lx	(4%): 129 lx
(5%): 161 lx	(6%): 193 lx
(7%): 225 lx	(8%): 257 lx
(9%): 290 lx	(10%): 322 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

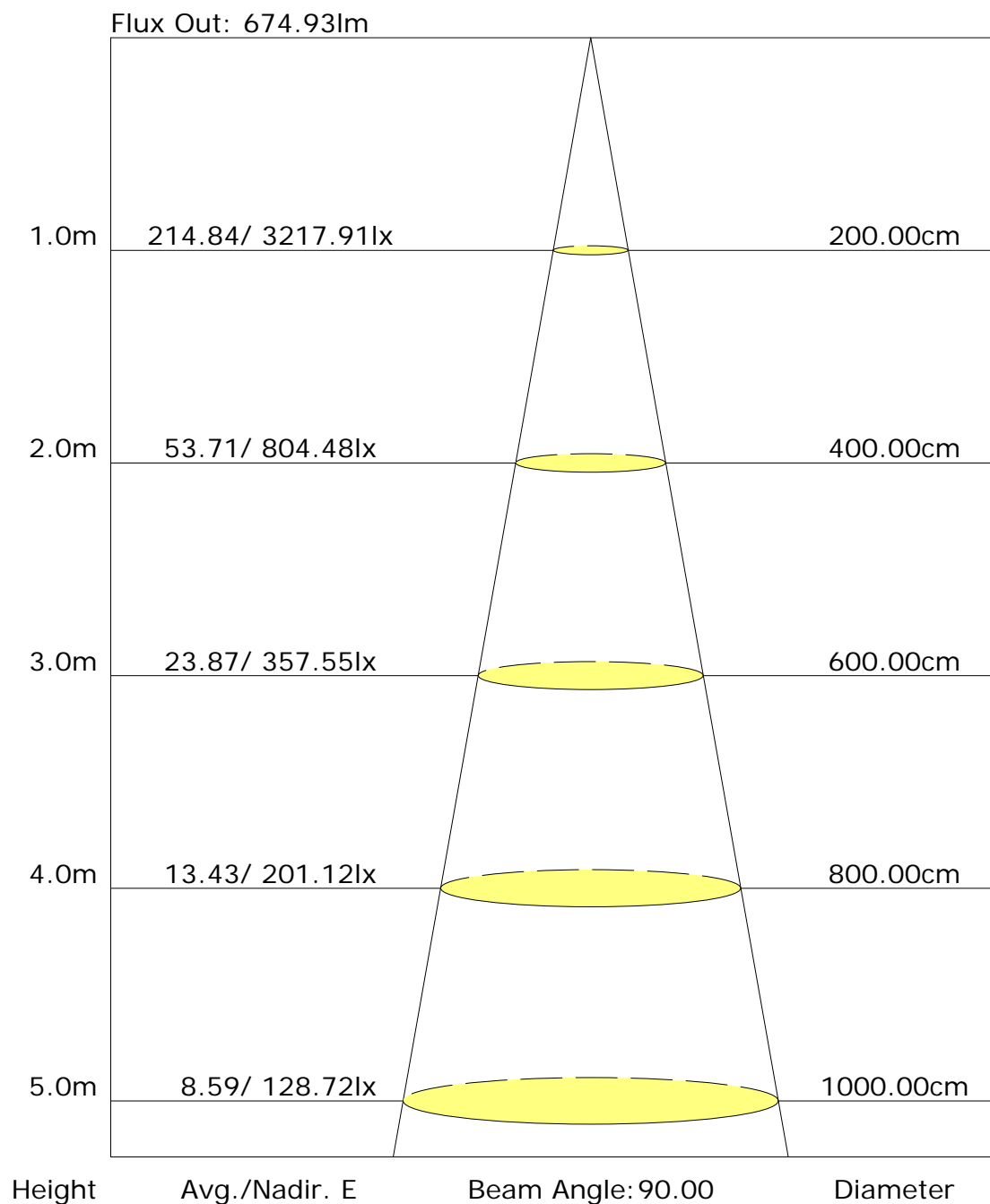
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

The average illuminance effective figure



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

Unit: cd

GVC	C0.0	C180.0								
G0.0	3217.9	3217.9								
G1.0	3276.6	3139.3								
G2.0	3320.0	3065.2								
G3.0	3283.9	2935.1								
G4.0	3264.9	2799.5								
G5.0	3230.6	2623.3								
G6.0	3161.0	2430.8								
G7.0	3063.4	2227.5								
G8.0	2935.1	1996.2								
G9.0	2778.7	1763.9								
G10.0	2633.3	1530.8								
G11.0	2429.9	1331.1								
G12.0	2229.3	1134.1								
G13.0	2015.2	947.0								
G14.0	1793.8	783.5								
G15.0	1572.4	638.0								
G16.0	1339.2	520.5								
G17.0	1136.8	422.9								
G18.0	956.1	339.8								
G19.0	796.1	272.9								
G20.0	656.0	220.5								
G21.0	535.0	178.9								
G22.0	430.1	147.3								
G23.0	346.1	122.9								
G24.0	280.1	103.9								
G25.0	226.8	88.6								
G26.0	183.4	78.6								
G27.0	150.9	67.8								
G28.0	123.8	62.3								
G29.0	104.8	55.1								
G30.0	90.4	50.6								
G31.0	76.8	47.9								
G32.0	69.6	43.4								
G33.0	62.3	39.8								
G34.0	56.9	36.2								
G35.0	51.5	34.3								
G36.0	47.9	32.5								

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: 3.000 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

GVC	C0.0	C180.0								
G37.0	43.4	29.8								
G38.0	39.8	28.0								
G39.0	36.2	26.2								
G40.0	33.4	27.1								
G41.0	32.5	25.3								
G42.0	28.9	23.5								
G43.0	28.0	22.6								
G44.0	26.2	21.7								
G45.0	24.4	20.8								
G46.0	22.6	19.0								
G47.0	23.5	19.0								
G48.0	21.7	19.0								
G49.0	21.7	17.2								
G50.0	20.8	15.4								
G51.0	19.0	16.3								
G52.0	19.9	14.5								
G53.0	18.1	14.5								
G54.0	16.3	13.6								
G55.0	15.4	13.6								
G56.0	14.5	11.8								
G57.0	14.5	11.8								
G58.0	14.5	10.8								
G59.0	13.6	9.0								
G60.0	13.6	8.1								
G61.0	11.8	8.1								
G62.0	12.6	8.1								
G63.0	10.8	7.2								
G64.0	10.8	7.2								
G65.0	8.1	7.2								
G66.0	8.1	5.4								
G67.0	8.1	6.3								
G68.0	7.2	6.3								
G69.0	7.2	4.5								
G70.0	7.2	4.5								
G71.0	6.3	4.5								
G72.0	5.4	4.5								
G73.0	5.4	2.7								

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:

Inspector: