

Report No.:56.05518-Recessed Downlight Test Time: 2022-04-27 09:33

## Luminaire Property

Luminaire Category: Citizen 1203 3000K CRI90

Voltage: 217.0 V

Current: 0.066 A

Power: 13.90 W

Power Factor: 0.963

## Photometric Results

CIE Class: Direct

Measurement Flux: 1278.8 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 1278.8 lm

Efficiency: 100%

Upward Ratio: 0%

Horizontal Diffuse Angle(25%,50%,75%,100%): H45.1,H35.3,H25.3,H1

Vertical Diffuse Angle(25%,50%,75%,100%): V45.1,V35.3,V25.3,V1

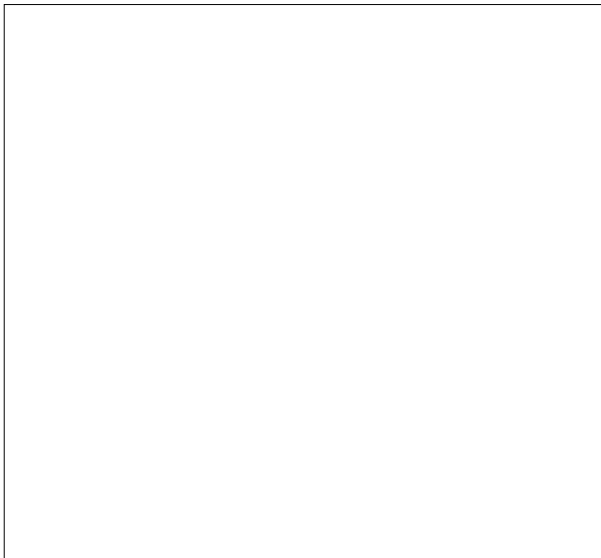
Luminaire Efficacy Rating (LER): 92

Central Intensity: 3273.04 cd

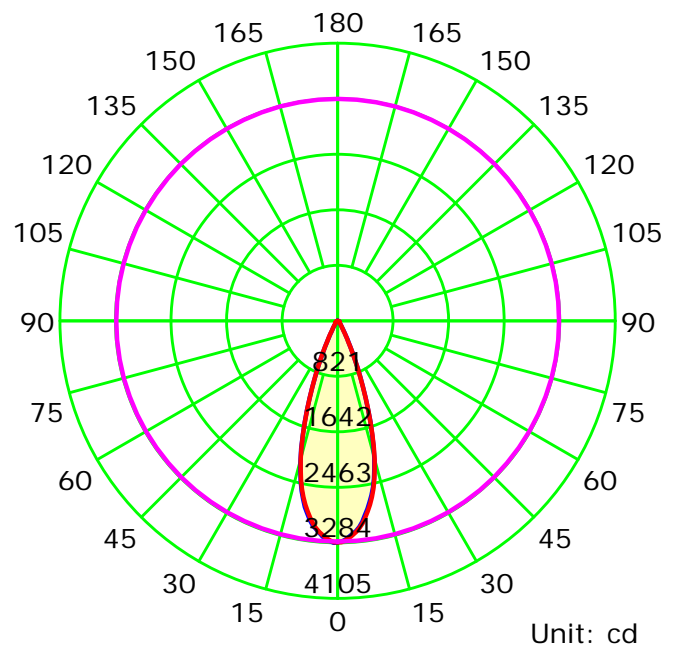
Max. Intensity: 3283.88 cd

Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 35.3°

— 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

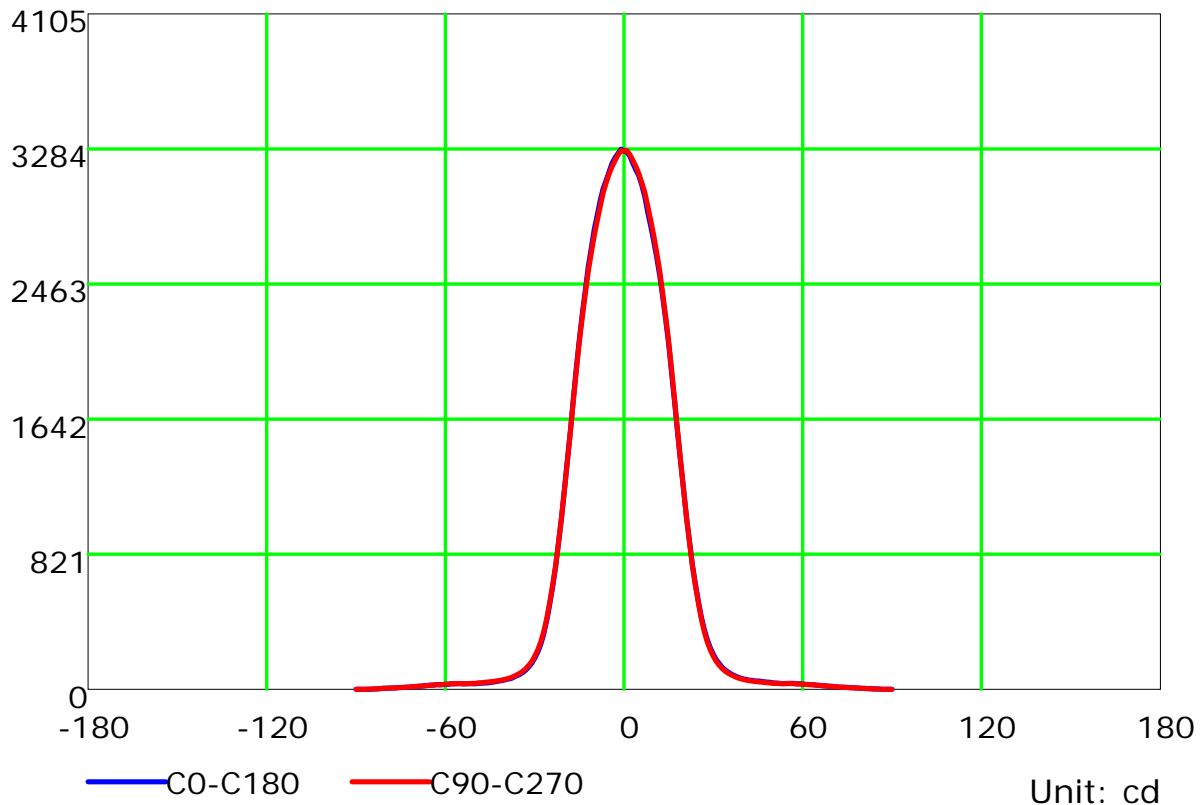
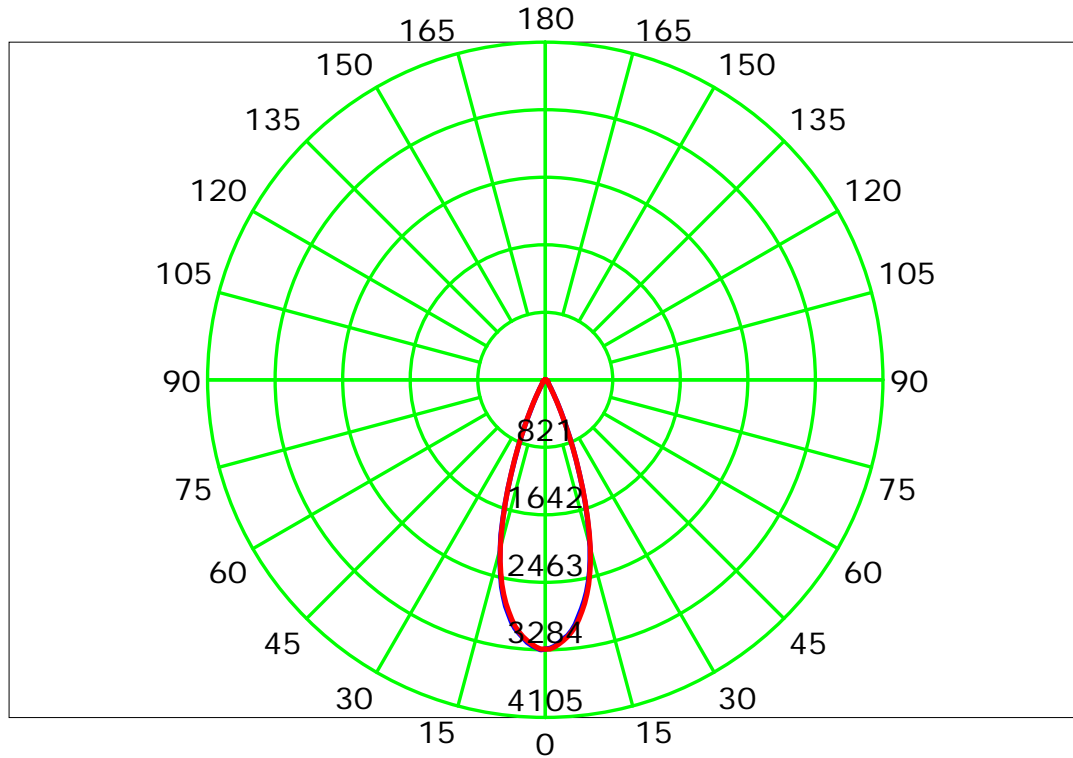
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

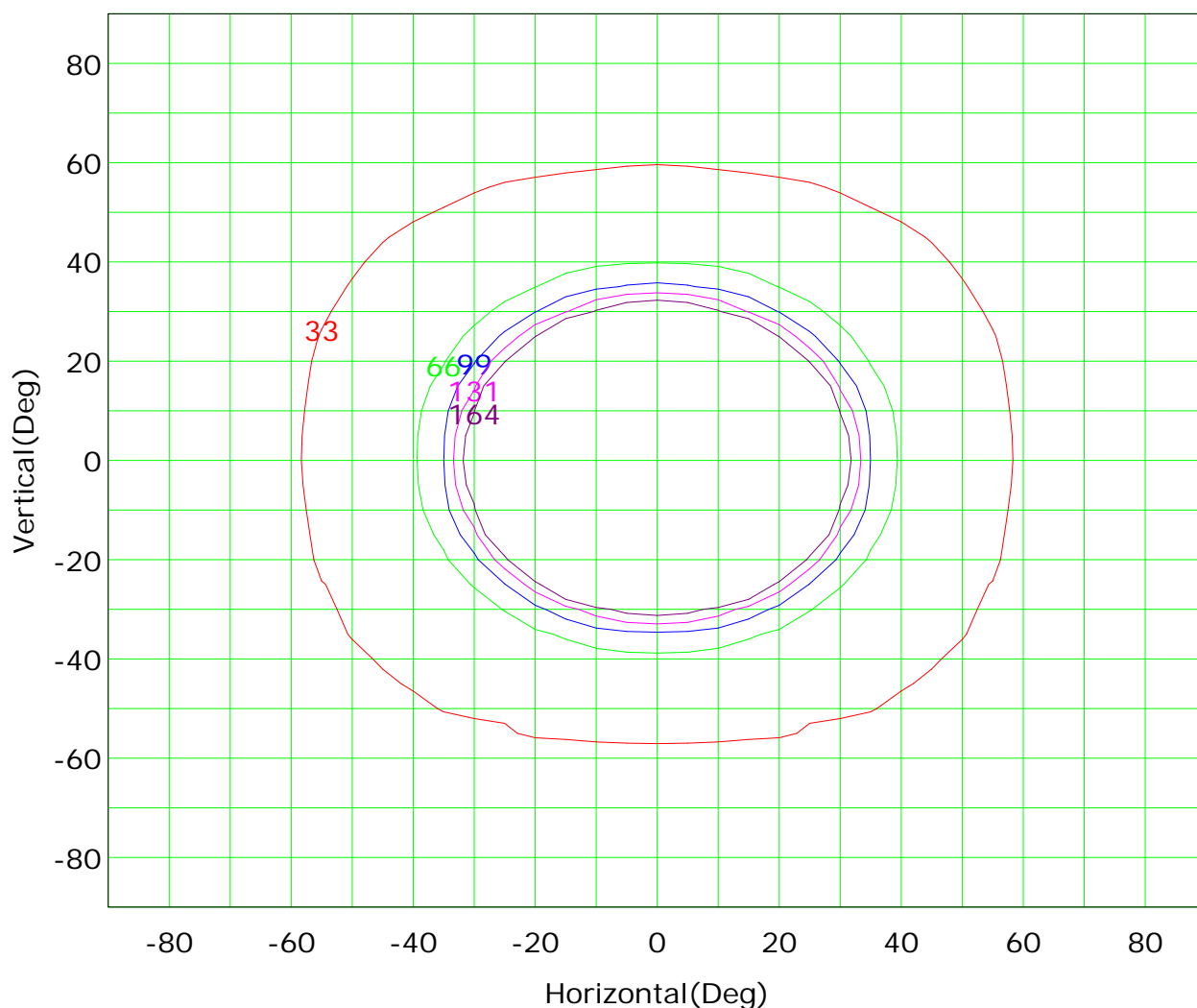
## Luminous Intensity Distribution Curve



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)



I<sub>max</sub> (100%): 3284 cd

( 1%): 33 cd  
( 3%): 99 cd  
( 5%): 164 cd

( 2%): 66 cd  
( 4%): 131 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

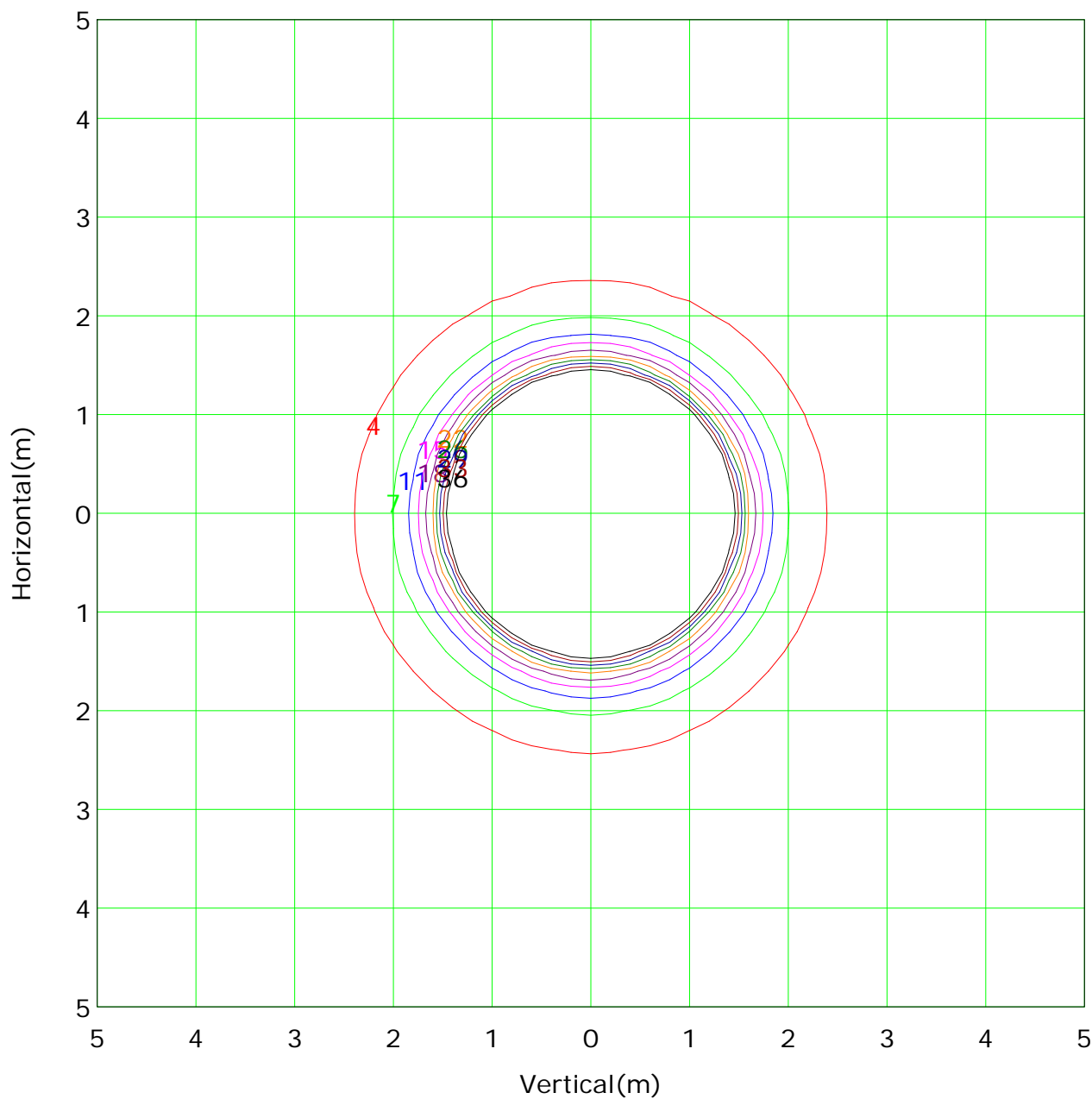
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 3m		Max Lux(100%): 365 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%):	36 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

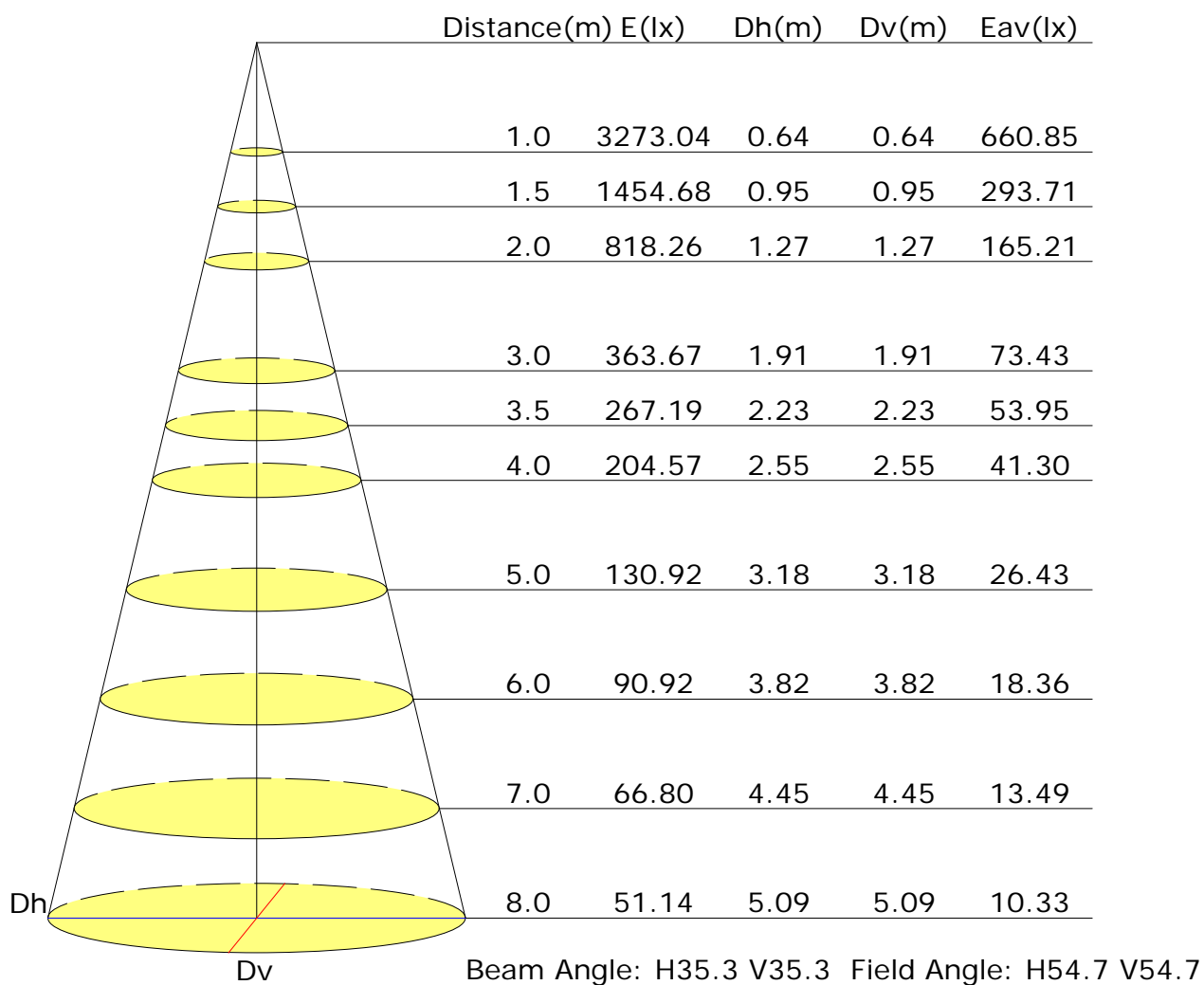
Test Device: CHL-6E

Distance: 3.000 m

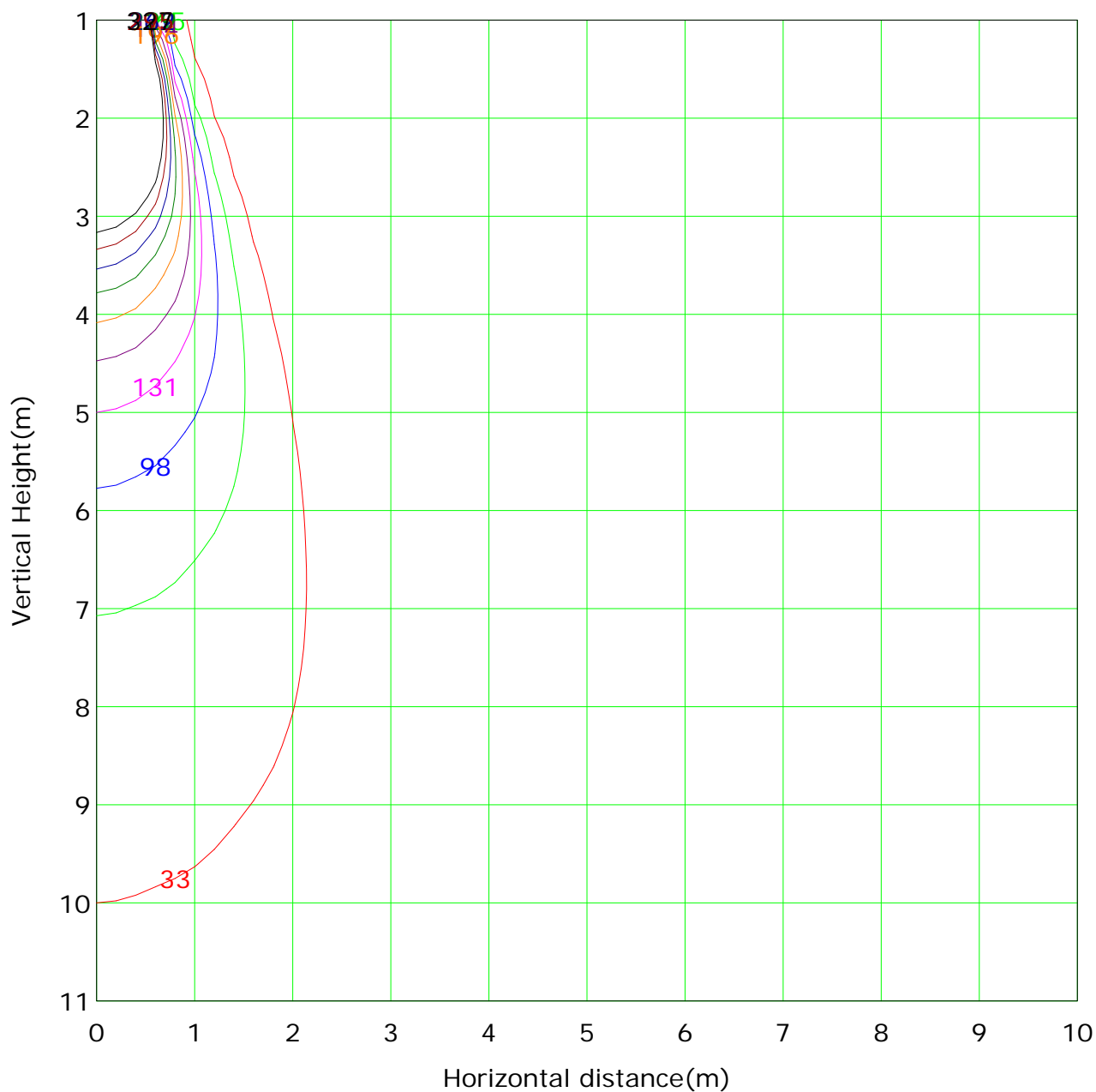
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1m    Highest(m): 11    Max Lux: 3273	
( 1%): 33 lx	( 2%): 65 lx
( 3%): 98 lx	( 4%): 131 lx
( 5%): 164 lx	( 6%): 196 lx
( 7%): 229 lx	( 8%): 262 lx
( 9%): 295 lx	(10%): 327 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

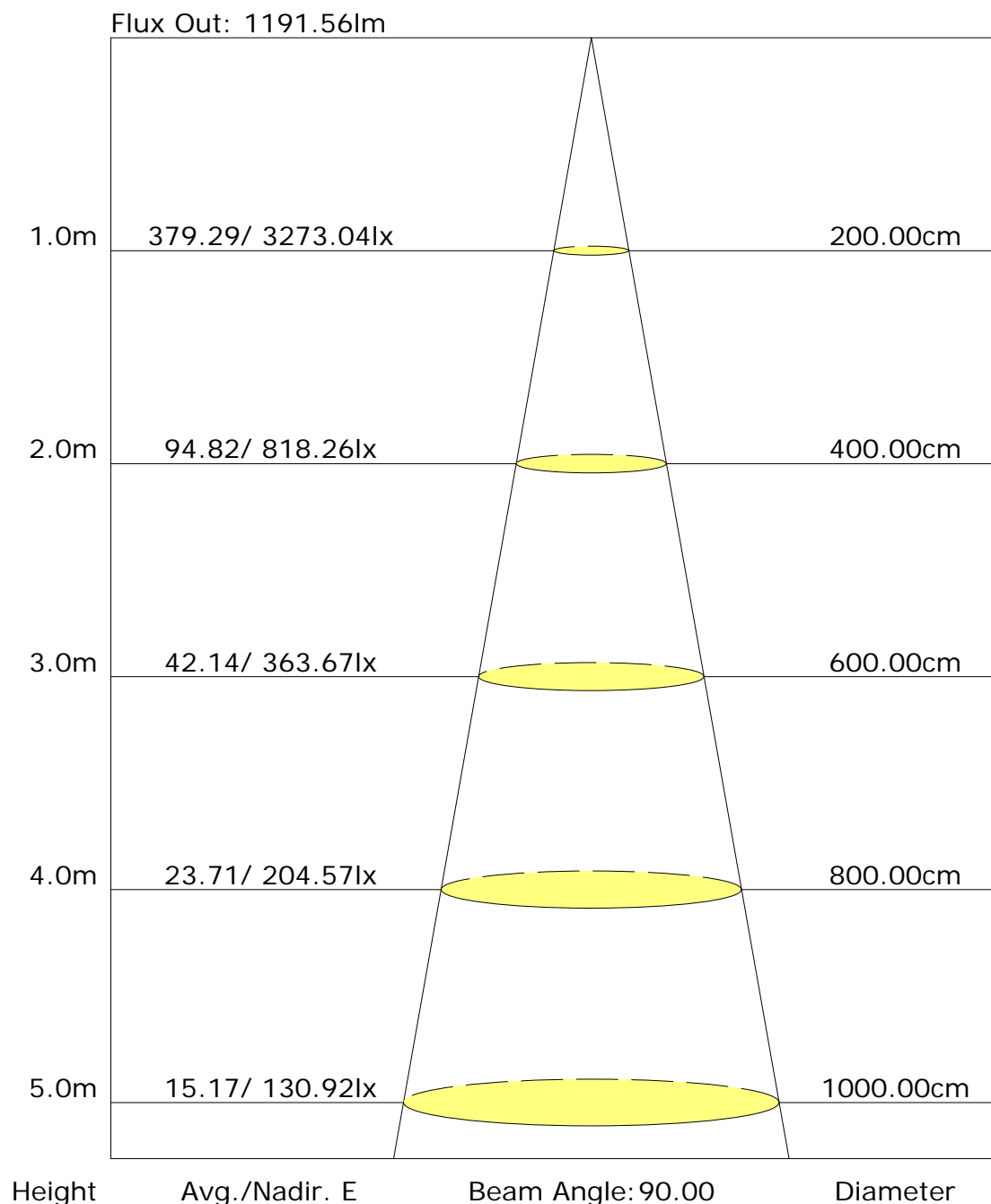
Test Device: CHL-6E

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	3273.0	3273.0								
G1.0	3264.9	3283.9								
G2.0	3239.6	3258.6								
G3.0	3198.9	3233.3								
G4.0	3157.4	3198.9								
G5.0	3121.2	3146.5								
G6.0	3065.2	3095.0								
G7.0	2993.8	3045.3								
G8.0	2902.5	2973.0								
G9.0	2815.8	2882.7								
G10.0	2722.7	2794.1								
G11.0	2627.8	2682.9								
G12.0	2515.8	2571.8								
G13.0	2391.1	2429.9								
G14.0	2249.2	2287.1								
G15.0	2101.0	2127.2								
G16.0	1926.6	1962.7								
G17.0	1747.7	1771.2								
G18.0	1569.7	1580.5								
G19.0	1387.1	1399.8								
G20.0	1215.4	1214.5								
G21.0	1048.2	1047.3								
G22.0	900.0	890.1								
G23.0	758.2	747.3								
G24.0	639.8	622.6								
G25.0	533.2	513.3								
G26.0	440.1	416.6								
G27.0	362.4	335.3								
G28.0	302.7	273.8								
G29.0	252.1	226.8								
G30.0	213.3	188.9								
G31.0	180.7	159.0								
G32.0	157.2	136.4								
G33.0	134.6	118.4								
G34.0	118.4	103.0								
G35.0	104.8	91.3								
G36.0	94.0	83.1								

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	84.0	74.1								
G38.0	76.8	66.0								
G39.0	69.6	62.3								
G40.0	64.2	57.8								
G41.0	60.5	53.3								
G42.0	56.0	50.6								
G43.0	55.1	47.0								
G44.0	51.5	44.3								
G45.0	50.6	41.6								
G46.0	48.8	39.8								
G47.0	46.1	38.0								
G48.0	44.3	37.0								
G49.0	43.4	36.2								
G50.0	39.8	33.4								
G51.0	38.9	34.3								
G52.0	37.0	34.3								
G53.0	35.2	34.3								
G54.0	35.2	33.4								
G55.0	36.2	34.3								
G56.0	36.2	34.3								
G57.0	36.2	33.4								
G58.0	33.4	34.3								
G59.0	34.3	30.7								
G60.0	32.5	30.7								
G61.0	30.7	28.9								
G62.0	29.8	28.0								
G63.0	28.9	28.9								
G64.0	28.0	25.3								
G65.0	24.4	25.3								
G66.0	23.5	23.5								
G67.0	21.7	21.7								
G68.0	20.8	19.9								
G69.0	19.0	19.0								
G70.0	18.1	17.2								
G71.0	16.3	16.3								
G72.0	14.5	14.5								
G73.0	13.6	13.6								

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:

