

Report No.: 51.04812- Recessed Downlight Test Time: 2022-05-25 14:27

## Luminaire Property

Luminaire Category: Bridgelux V4HD 3000K CRI90

Voltage: 218.7 V

Current: 0.041 A

Power: 8.40 W

Power Factor: 0.932

## Photometric Results

CIE Class: Direct

Measurement Flux: 505.6 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 505.6 lm

Efficiency: 100%

Upward Ratio: 0%

Horizontal Diffuse Angle(25%,50%,75%,100%): H24.8,H17.5,H11.7,H1

Vertical Diffuse Angle(25%,50%,75%,100%): V24.8,V17.5,V11.7,V1

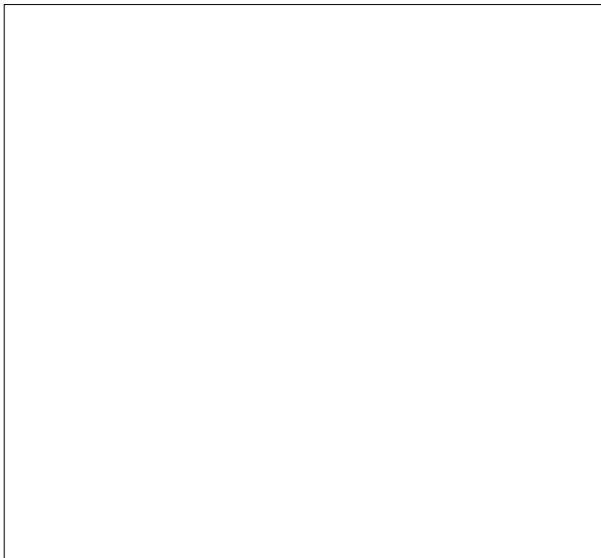
Luminaire Efficacy Rating (LER): 60

Central Intensity: 4257.12 cd

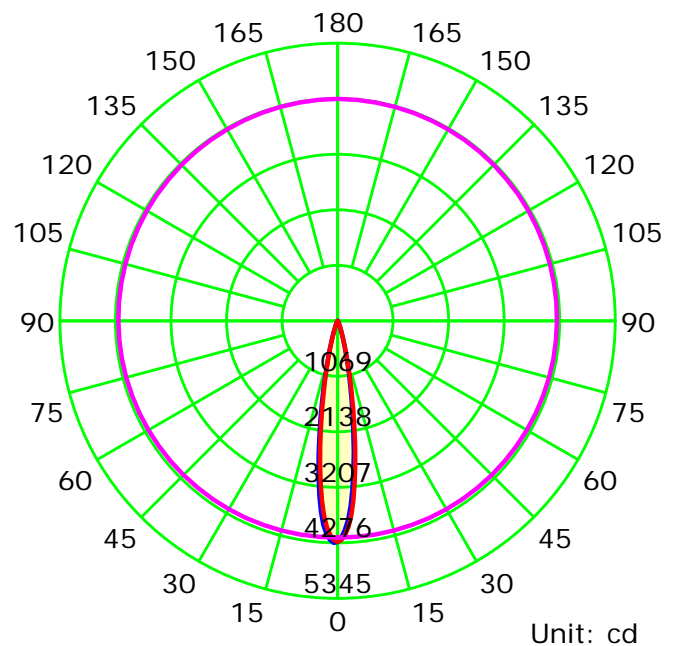
Max. Intensity: 4275.19 cd

Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 17.5°

— 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

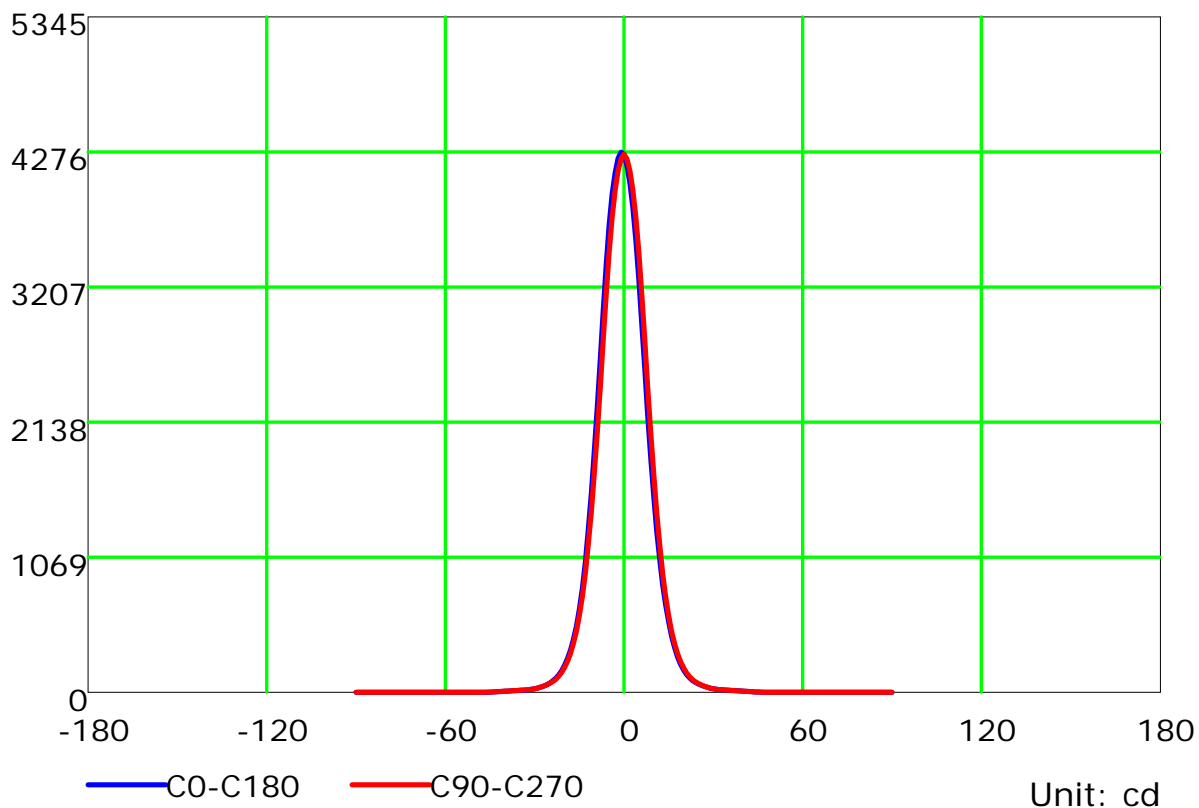
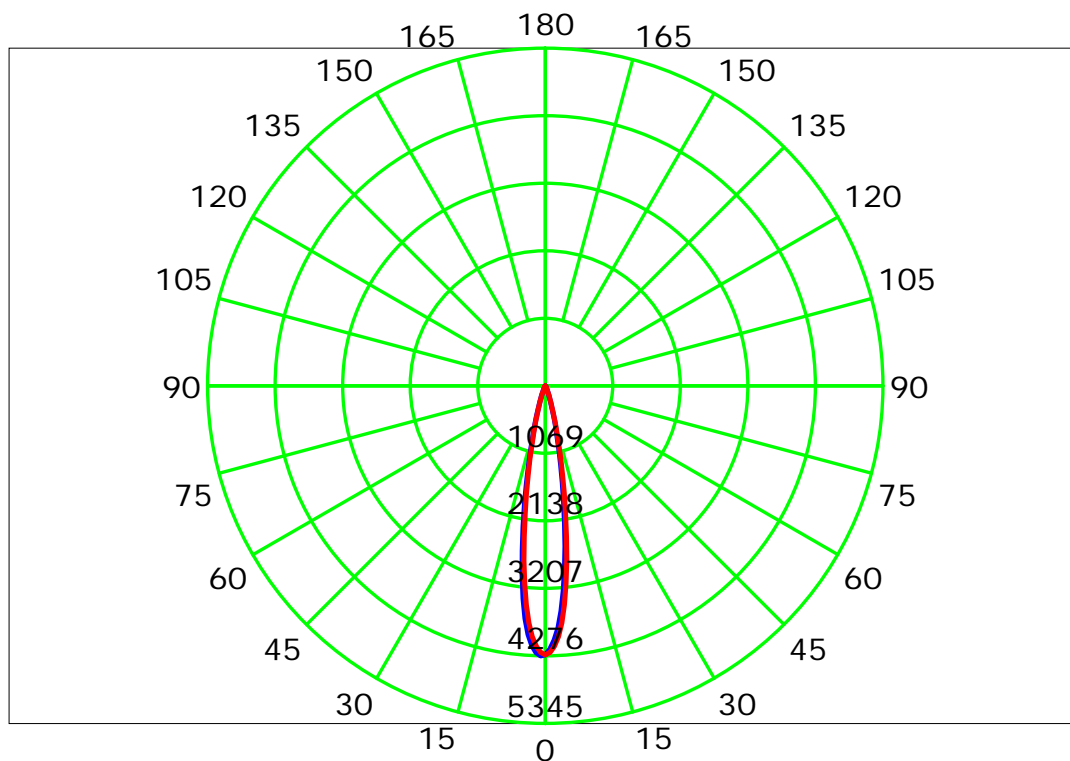
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

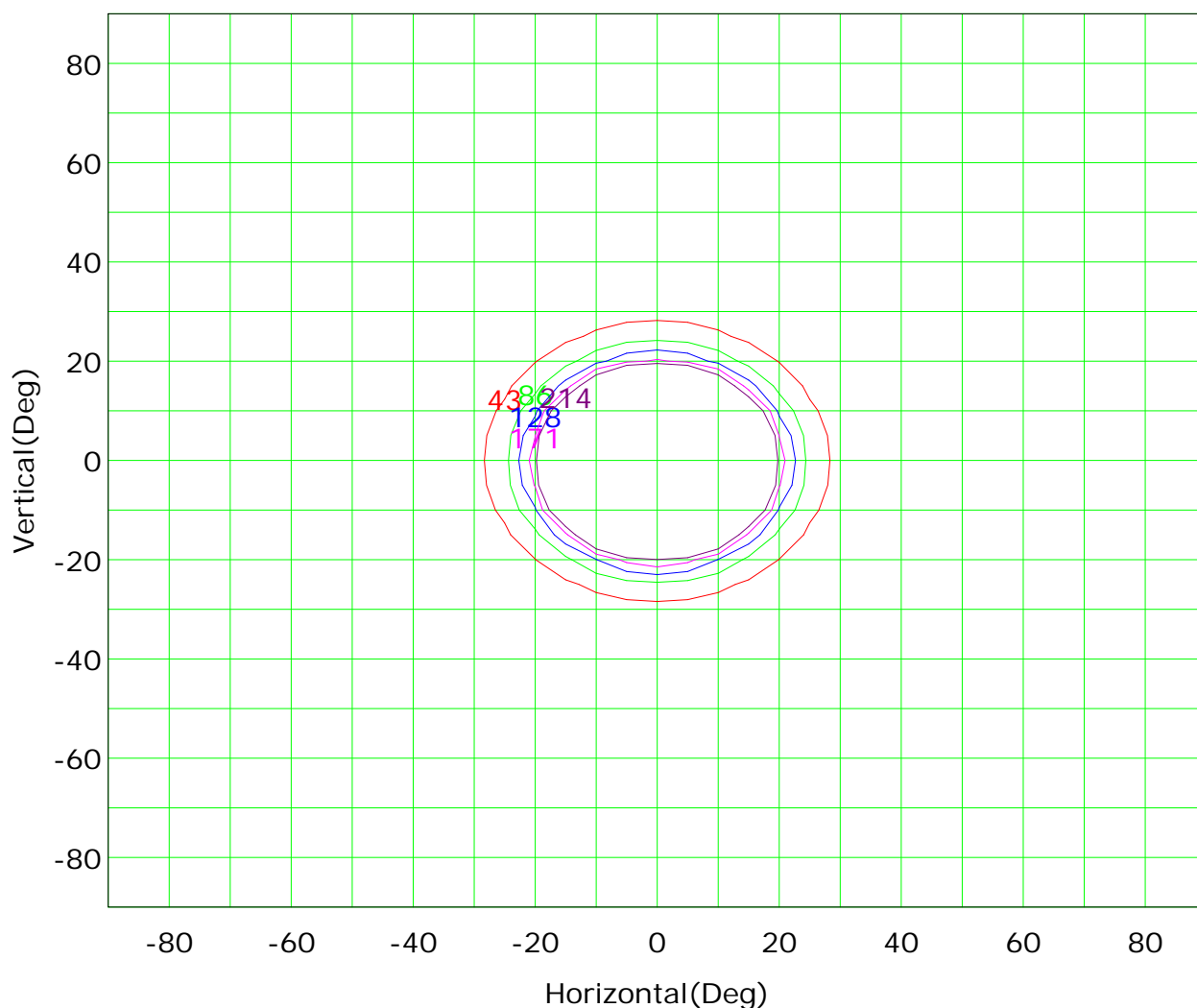
## Luminous Intensity Distribution Curve



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%): 4275 cd

( 1%): 43 cd  
( 3%): 128 cd  
( 5%): 214 cd

( 2%): 86 cd  
( 4%): 171 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

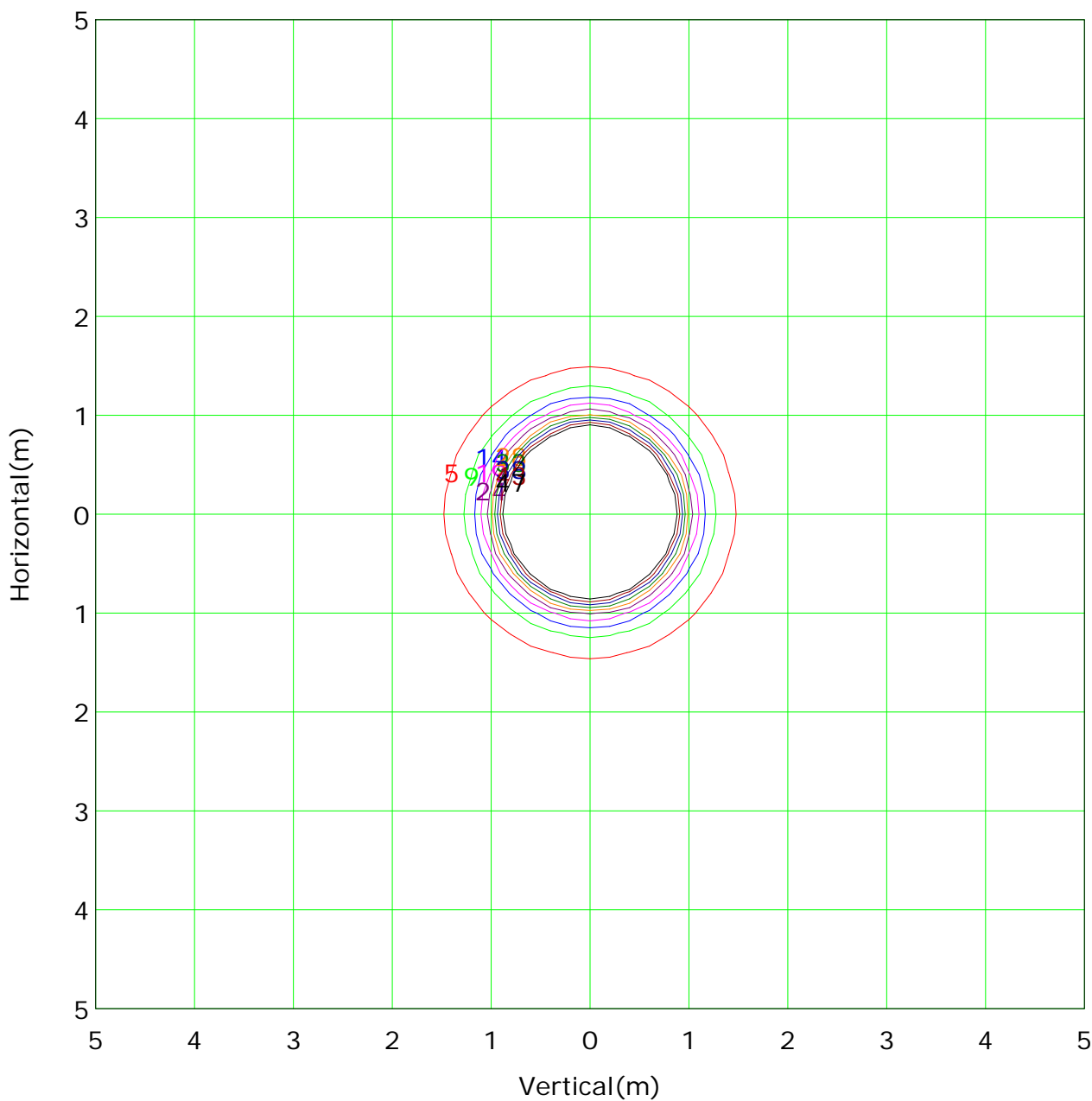
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 3m		Max Lux(100%): 475 lx	
— ( 1%):	5 lx	— ( 2%):	9 lx
— ( 3%):	14 lx	— ( 4%):	19 lx
— ( 5%):	24 lx	— ( 6%):	28 lx
— ( 7%):	33 lx	— ( 8%):	38 lx
— ( 9%):	43 lx	— (10%):	47 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

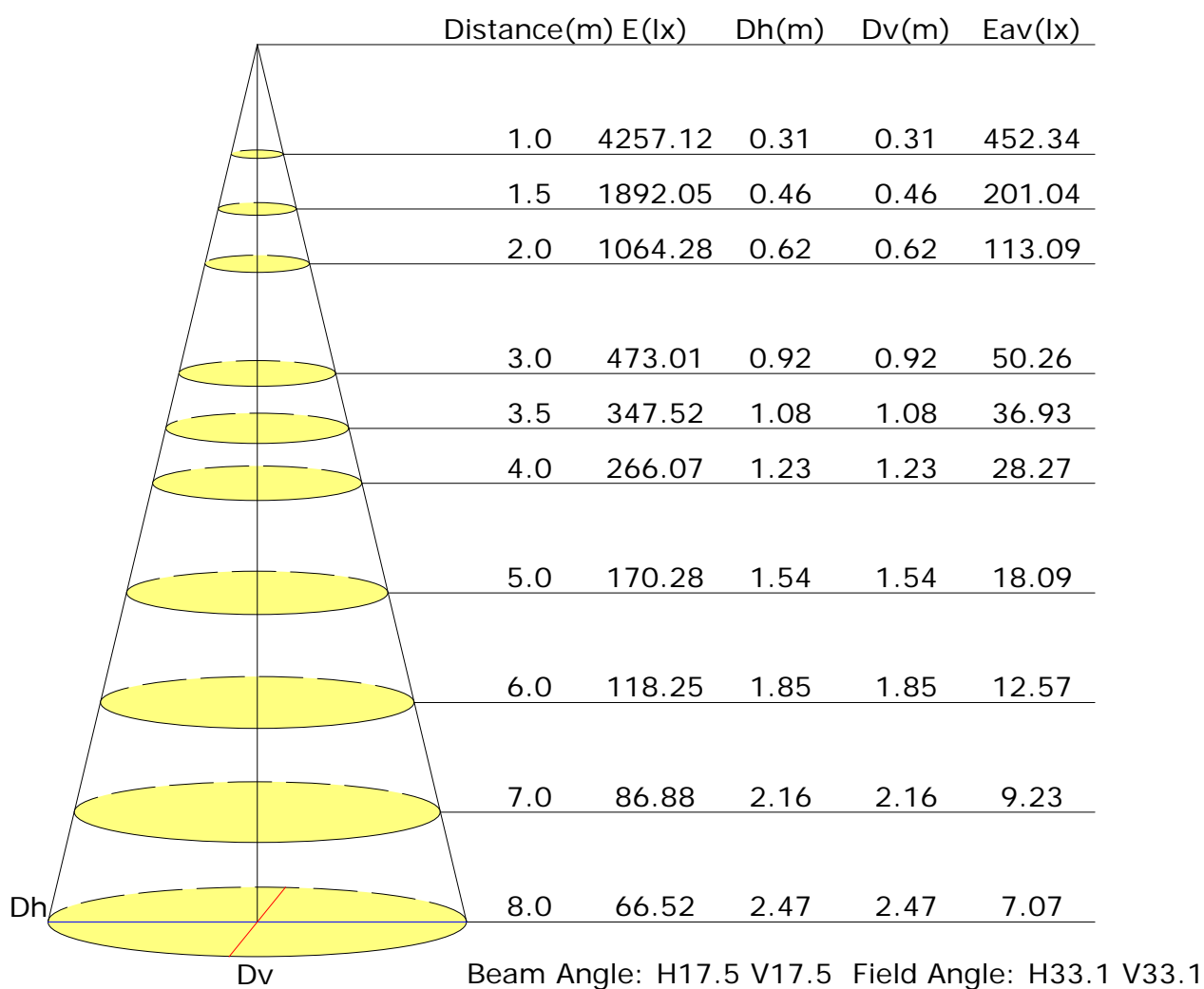
Test Device: CHL-6E

Distance: 3.000 m

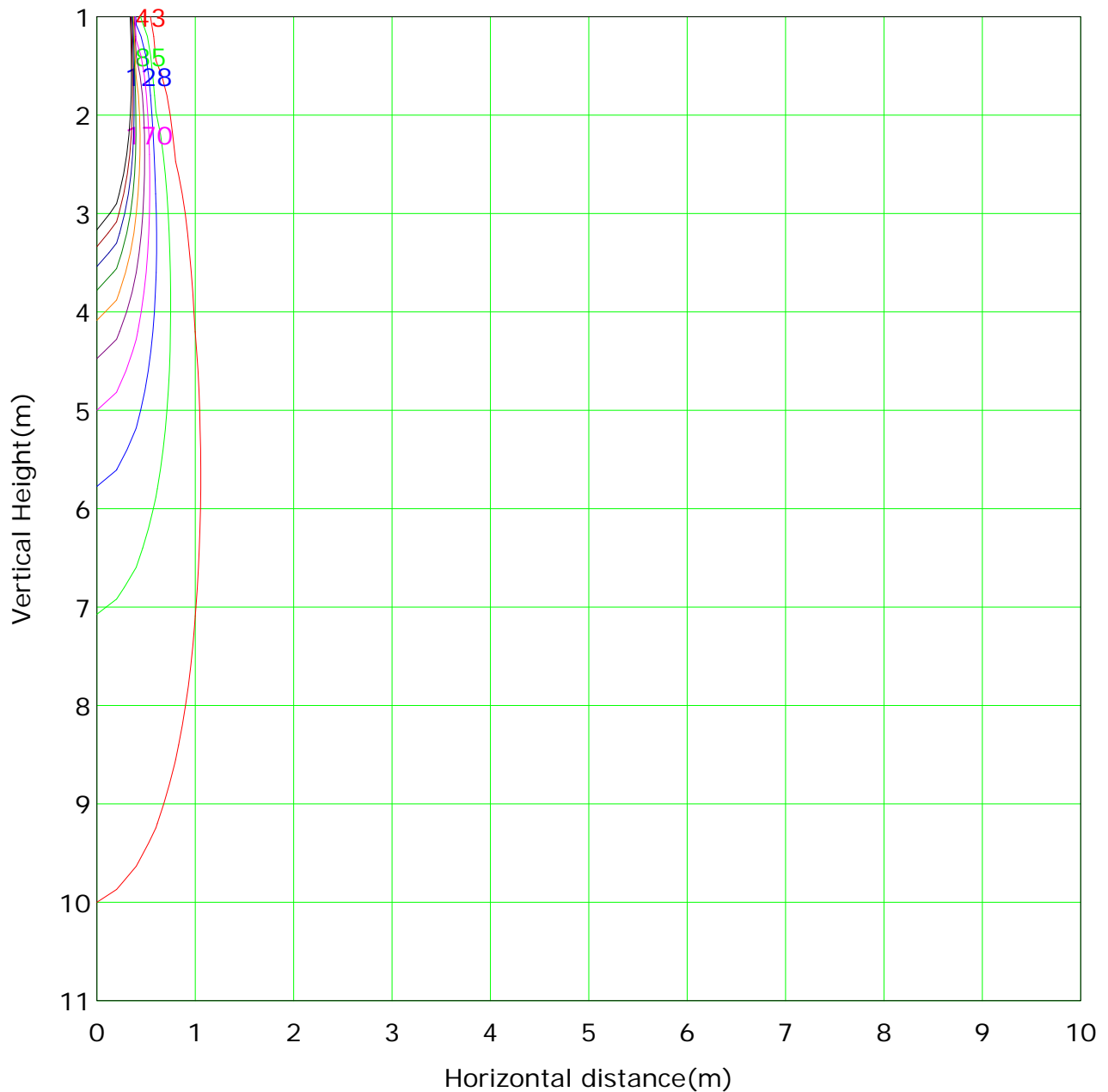
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1m    Highest(m): 11    Max Lux: 4257	
( 1%): 43 lx	( 2%): 85 lx
( 3%): 128 lx	( 4%): 170 lx
( 5%): 213 lx	( 6%): 255 lx
( 7%): 298 lx	( 8%): 341 lx
( 9%): 383 lx	(10%): 426 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

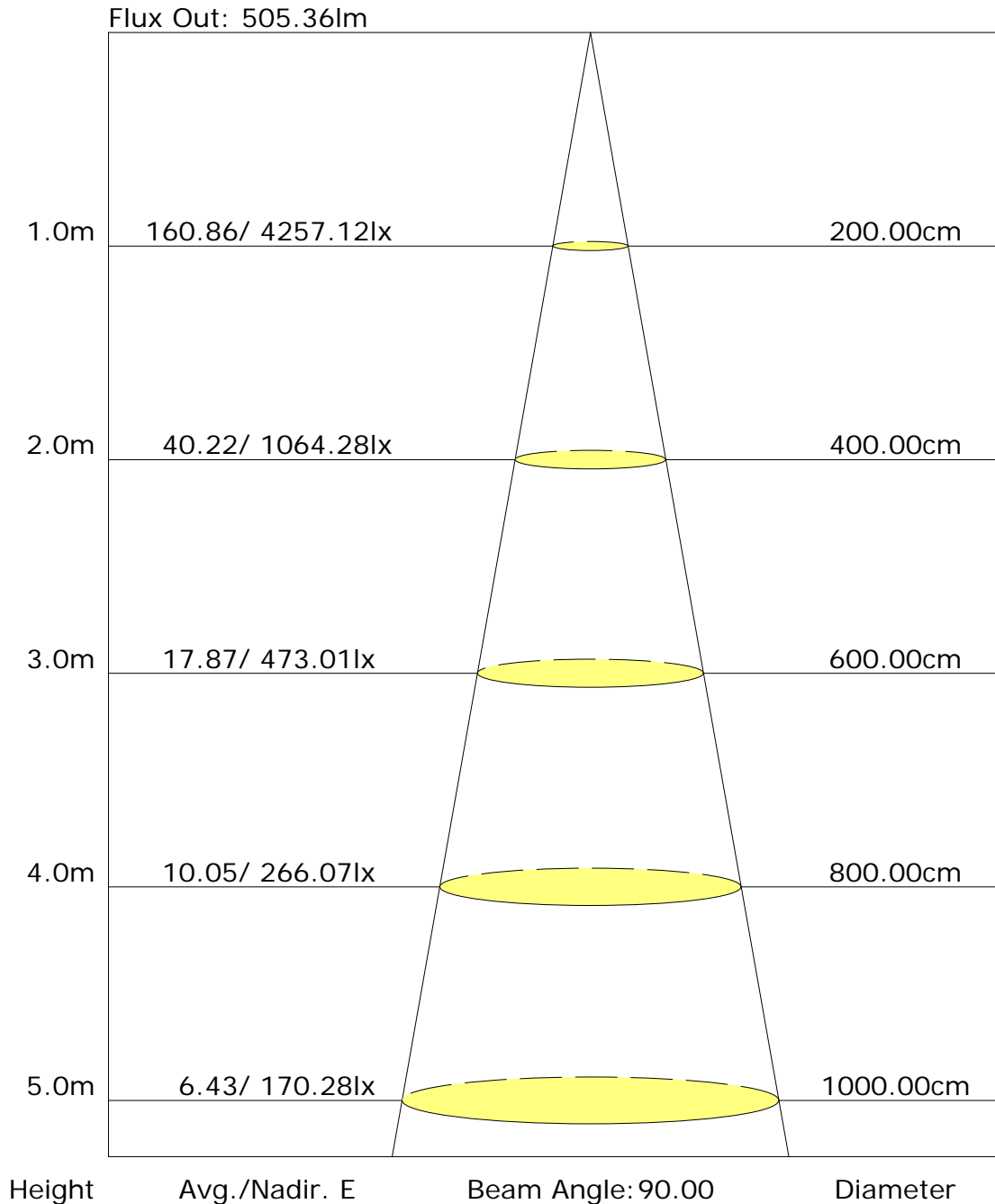
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

## The average illuminance effective figure



## Candlepower Table

Unit: cd

GVC	C0.0	C180.0								
G0.0	4257.1	4257.1								
G1.0	4171.3	4275.2								
G2.0	4028.5	4225.5								
G3.0	3840.5	4114.3								
G4.0	3577.6	3944.4								
G5.0	3260.4	3695.9								
G6.0	2914.3	3386.0								
G7.0	2559.1	3016.4								
G8.0	2191.4	2636.9								
G9.0	1855.2	2255.5								
G10.0	1551.6	1900.4								
G11.0	1279.6	1575.1								
G12.0	1054.6	1291.3								
G13.0	855.8	1034.7								
G14.0	693.1	824.1								
G15.0	558.5	656.0								
G16.0	445.5	524.1								
G17.0	355.1	419.3								
G18.0	281.9	334.4								
G19.0	223.2	267.5								
G20.0	178.0	212.4								
G21.0	141.9	169.9								
G22.0	115.7	136.4								
G23.0	94.0	111.2								
G24.0	78.6	90.4								
G25.0	66.9	73.2								
G26.0	56.0	60.5								
G27.0	47.0	50.6								
G28.0	40.7	42.5								
G29.0	32.5	35.2								
G30.0	28.9	28.9								
G31.0	25.3	25.3								
G32.0	21.7	21.7								
G33.0	20.8	19.0								
G34.0	19.0	17.2								
G35.0	17.2	16.3								
G36.0	15.4	14.5								

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	14.5	13.6								
G38.0	13.6	11.8								
G39.0	11.8	9.9								
G40.0	9.9	9.0								
G41.0	8.1	7.2								
G42.0	7.2	6.3								
G43.0	6.3	4.5								
G44.0	2.7	2.7								
G45.0	2.7	1.8								
G46.0	1.8	0.9								
G47.0	0.0	0.9								
G48.0	0.0	0.0								
G49.0	0.0	0.0								
G50.0	0.0	0.0								
G51.0	0.0	0.0								
G52.0	0.0	0.0								
G53.0	0.0	0.0								
G54.0	0.0	0.0								
G55.0	0.0	0.0								
G56.0	0.0	0.0								
G57.0	0.0	0.0								
G58.0	0.0	0.0								
G59.0	0.0	0.0								
G60.0	0.0	0.0								
G61.0	0.0	0.0								
G62.0	0.0	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

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.000 m  
Humidity:  
Inspector: