

Report No.: 56.04011-Recessed Downlight Test Time: 2022-04-27 10:25

Luminaire Property

Luminaire Category: Citizen 701 3000K CRI90

Voltage: 219.6 V

Current: 0.046 A

Power: 9.40 W

Power Factor: 0.931

Photometric Results

CIE Class: Direct

Measurement Flux: 592.3 lm

Total Rated Lamp Lumens: 592.3 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Horizontal Diffuse Angle(25%,50%,75%,100%): H24.1,H16.2,H10.5,H1

Vertical Diffuse Angle(25%,50%,75%,100%): V24.1,V16.2,V10.5,V1

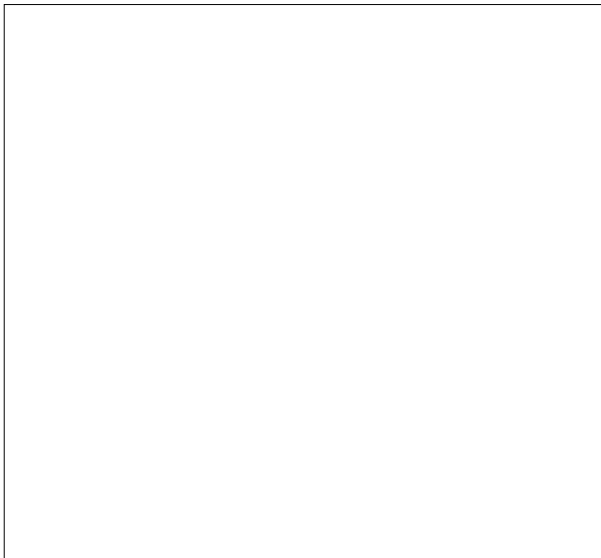
Luminaire Efficacy Rating (LER): 63

Central Intensity: 4174.88 cd

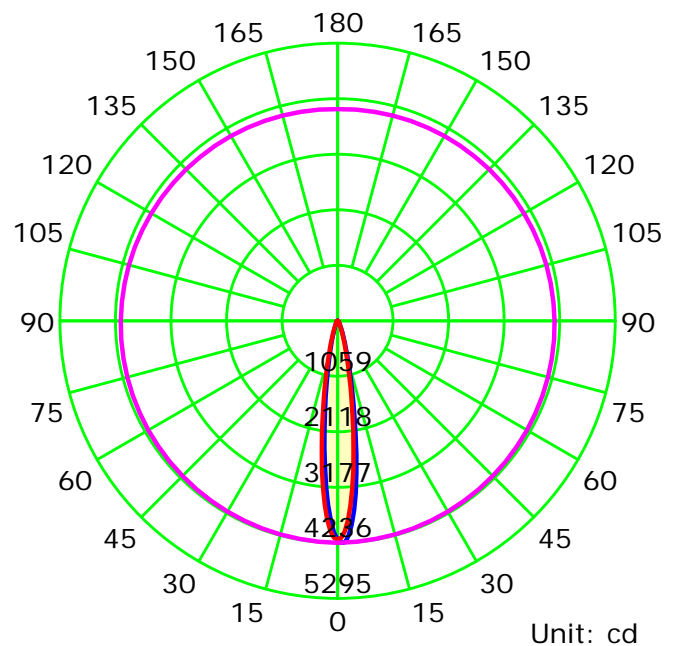
Max. Intensity: 4234.53 cd

Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 16.2°

— 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

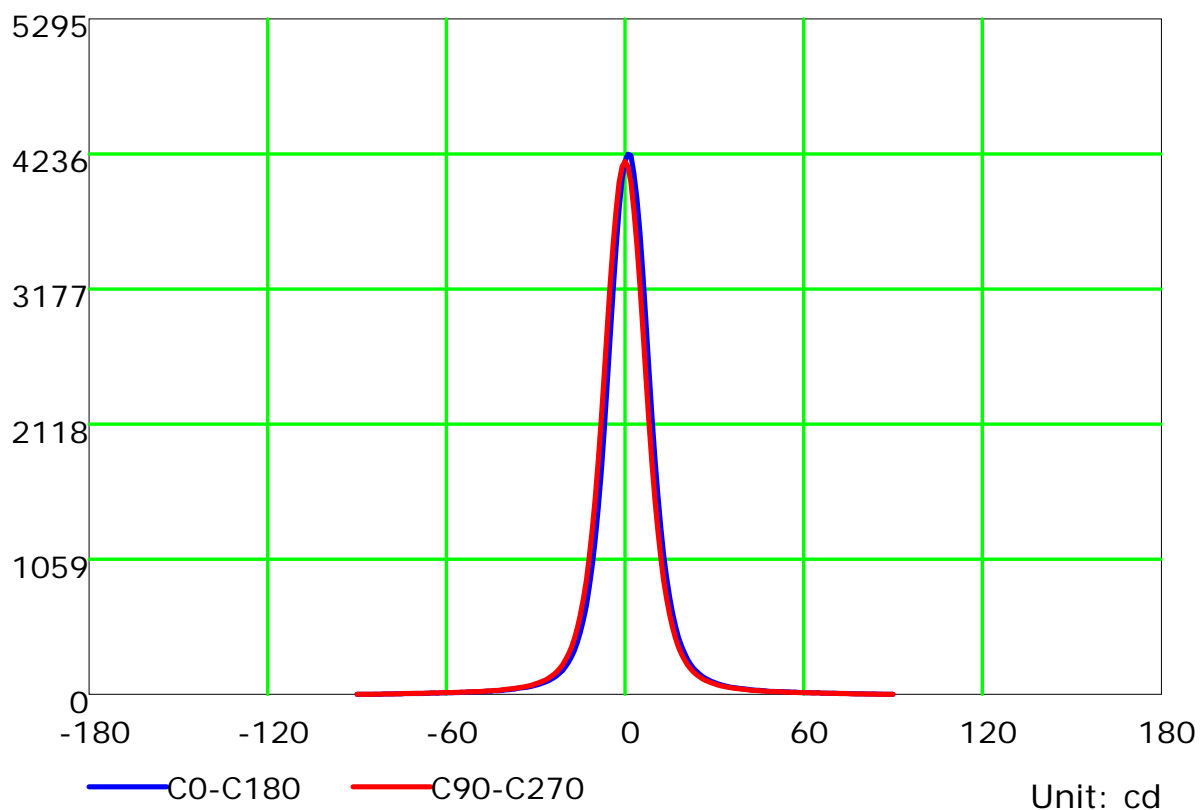
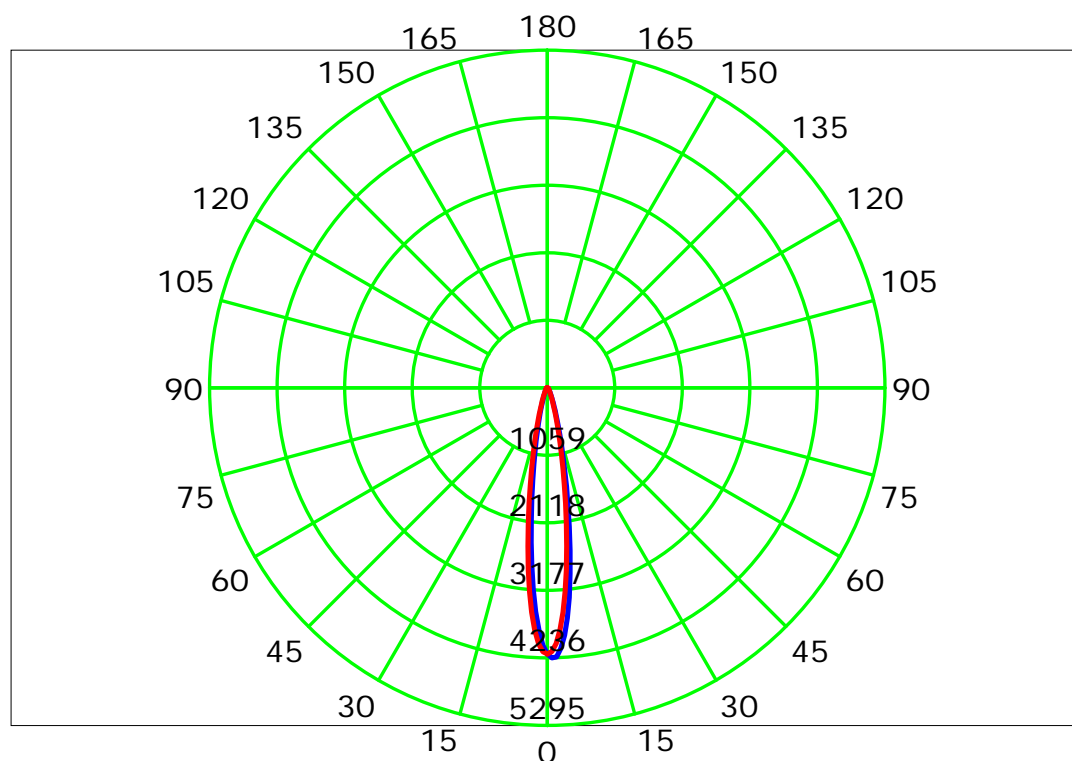
Test Device: CHL-6E

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

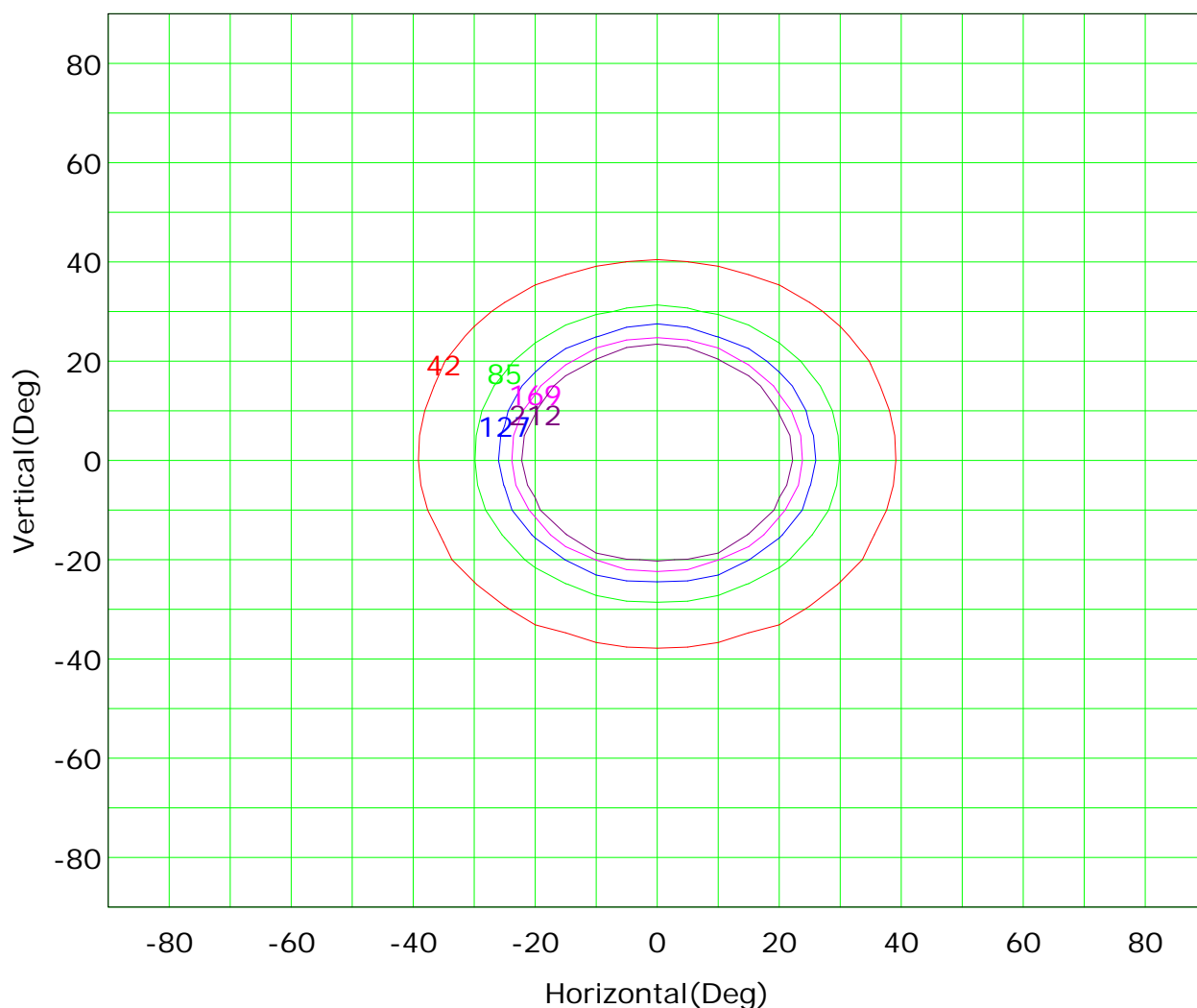
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

Isocandela (rectangle)



I_{max} (100%): 4235 cd

(1%): 42 cd
(3%): 127 cd
(5%): 212 cd

(2%): 85 cd
(4%): 169 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

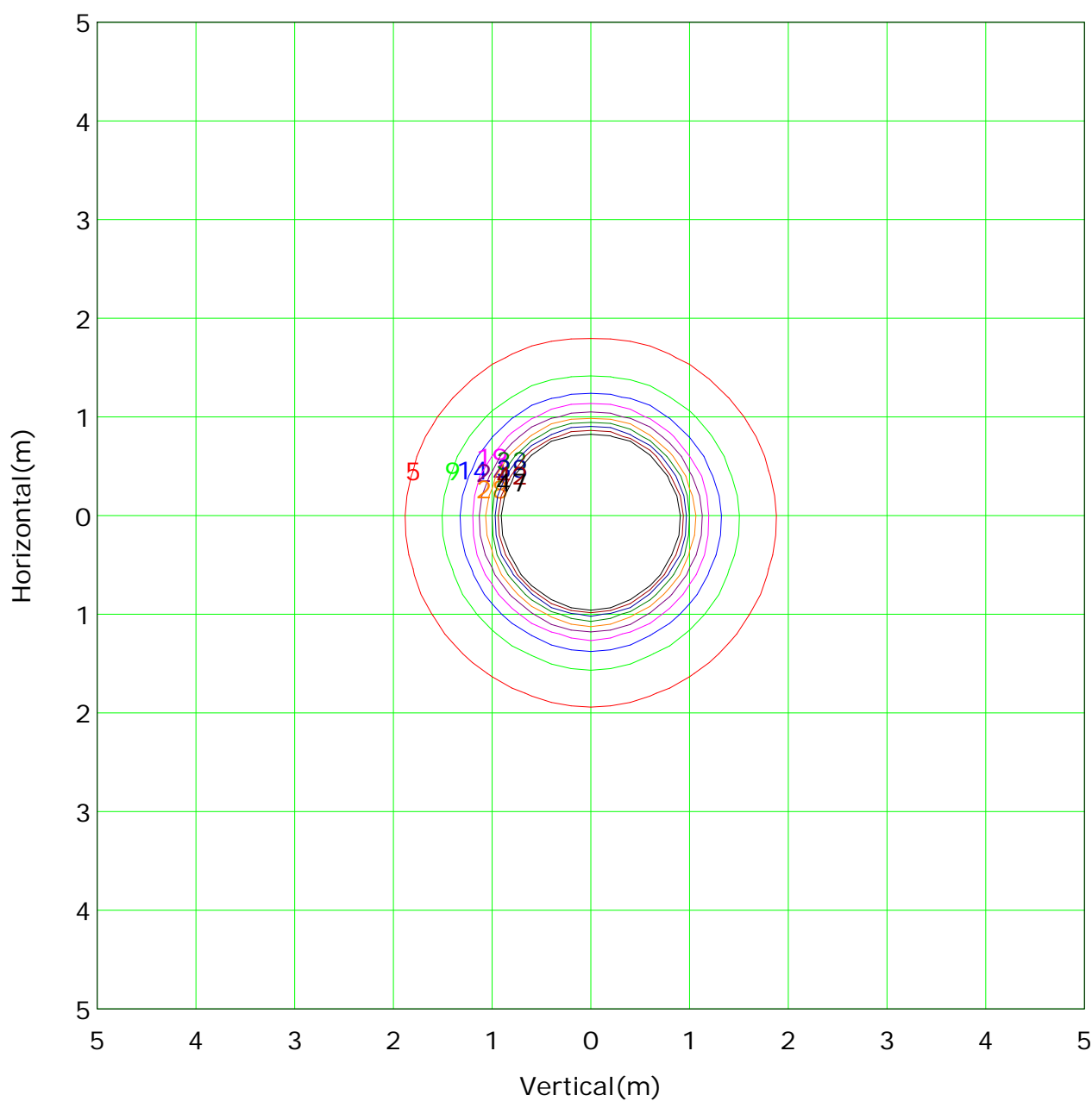
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 3m Max Lux(100%): 470 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%):	42 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

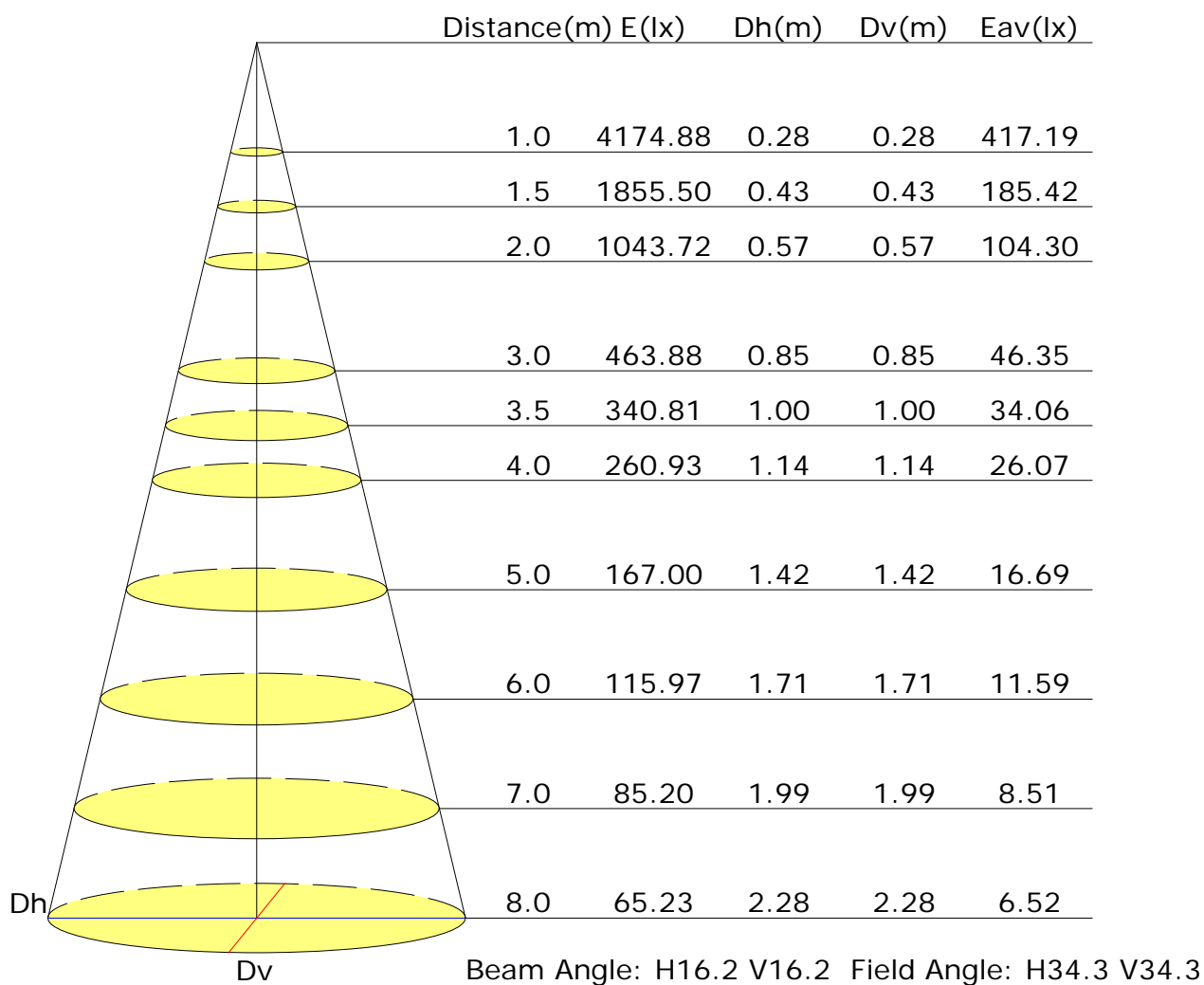
Test Device: CHL-6E

Distance: 3.000 m

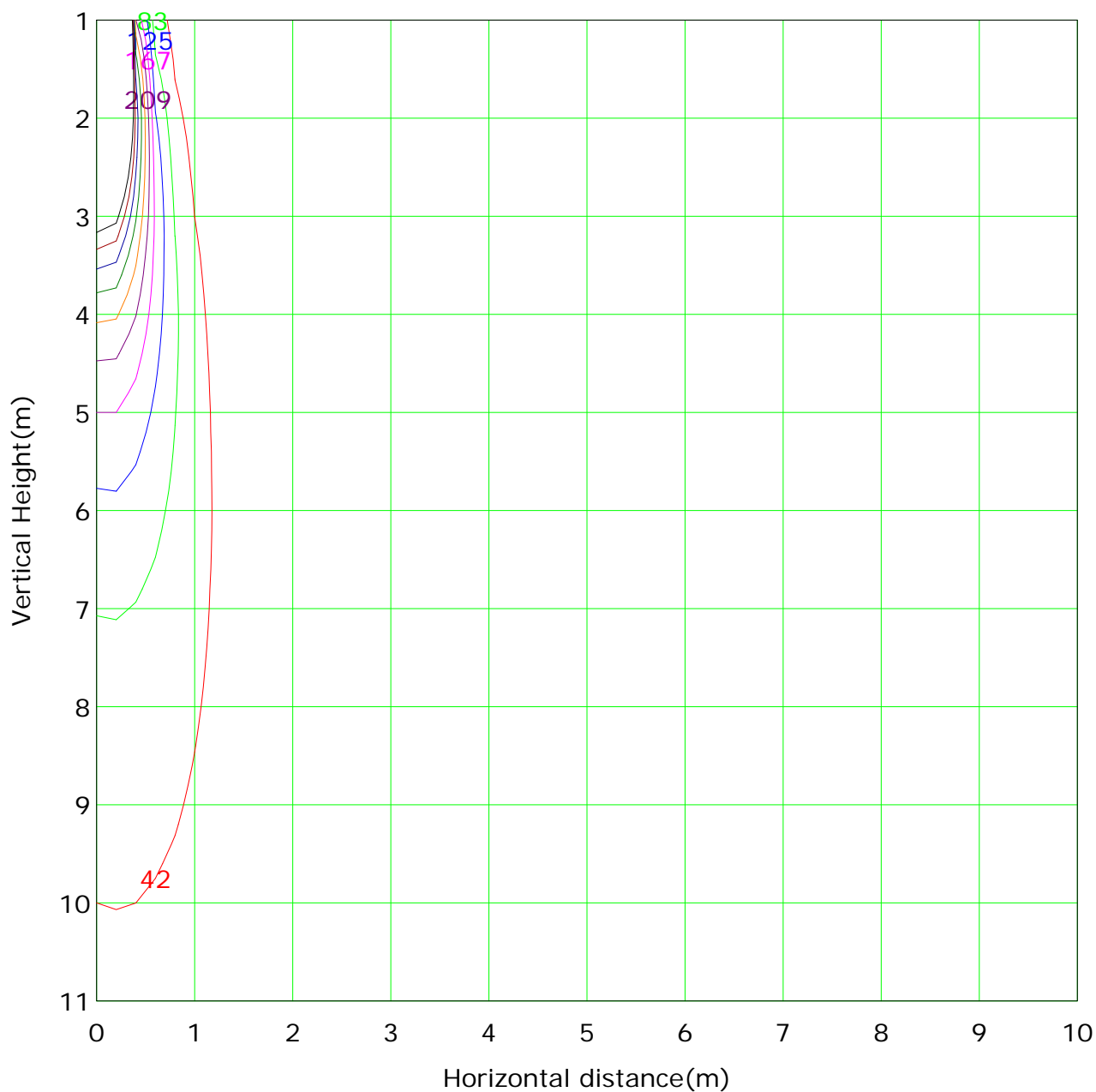
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1m Highest(m): 11 Max Lux: 4175	
(1%): 42 lx	(2%): 83 lx
(3%): 125 lx	(4%): 167 lx
(5%): 209 lx	(6%): 250 lx
(7%): 292 lx	(8%): 334 lx
(9%): 376 lx	(10%): 417 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

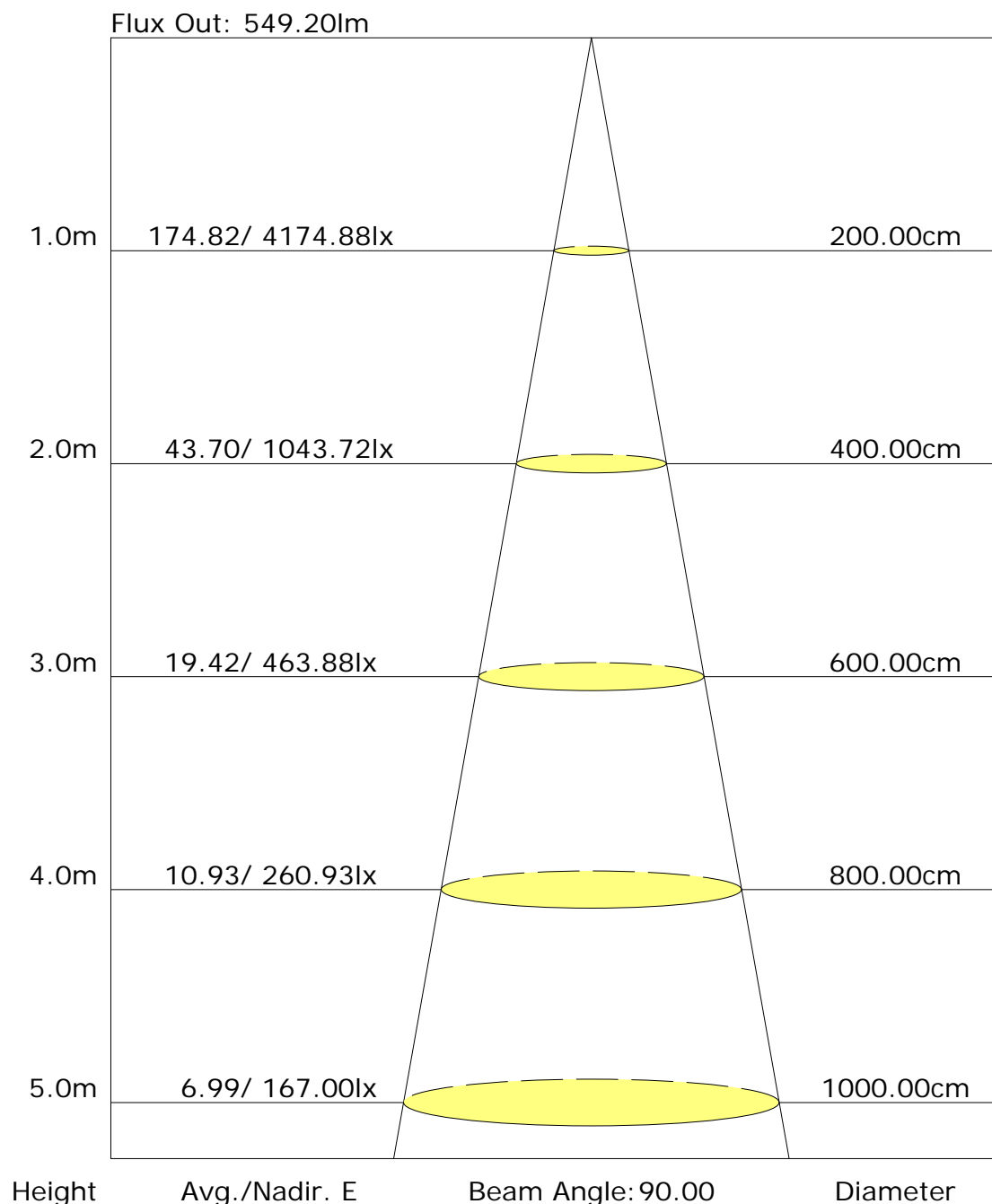
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

The average illuminance effective figure



Candlepower Table

Unit: cd

GVC	C0.0	C180.0								
G0.0	4174.9	4174.9								
G1.0	4234.5	4039.3								
G2.0	4222.8	3804.4								
G3.0	4086.3	3515.2								
G4.0	3888.4	3170.0								
G5.0	3623.6	2799.5								
G6.0	3305.6	2438.1								
G7.0	2934.2	2069.4								
G8.0	2572.7	1749.5								
G9.0	2200.4	1463.9								
G10.0	1862.4	1216.3								
G11.0	1579.6	1017.5								
G12.0	1314.8	844.9								
G13.0	1092.5	698.5								
G14.0	913.6	584.7								
G15.0	759.1	488.9								
G16.0	636.2	412.1								
G17.0	531.3	346.1								
G18.0	445.5	296.4								
G19.0	378.6	252.1								
G20.0	322.6	217.8								
G21.0	274.7	188.0								
G22.0	236.8	166.3								
G23.0	205.1	146.4								
G24.0	180.7	130.1								
G25.0	159.9	116.6								
G26.0	141.0	104.8								
G27.0	125.6	94.9								
G28.0	114.8	86.8								
G29.0	102.1	78.6								
G30.0	94.0	72.3								
G31.0	84.0	66.0								
G32.0	76.8	60.5								
G33.0	69.6	56.0								
G34.0	64.2	53.3								
G35.0	58.7	50.6								
G36.0	54.2	47.9								

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	51.5	42.5								
G38.0	48.8	39.8								
G39.0	46.1	37.0								
G40.0	43.4	36.2								
G41.0	40.7	32.5								
G42.0	37.0	28.9								
G43.0	34.3	28.0								
G44.0	31.6	28.9								
G45.0	31.6	24.4								
G46.0	28.9	25.3								
G47.0	28.0	23.5								
G48.0	24.4	21.7								
G49.0	23.5	20.8								
G50.0	23.5	20.8								
G51.0	21.7	19.0								
G52.0	20.8	19.9								
G53.0	21.7	18.1								
G54.0	19.0	15.4								
G55.0	19.0	16.3								
G56.0	17.2	14.5								
G57.0	18.1	14.5								
G58.0	16.3	13.6								
G59.0	14.5	13.6								
G60.0	14.5	13.6								
G61.0	13.6	11.8								
G62.0	13.6	11.8								
G63.0	11.8	9.9								
G64.0	11.8	10.8								
G65.0	12.6	10.8								
G66.0	9.9	8.1								
G67.0	9.9	8.1								
G68.0	9.9	7.2								
G69.0	8.1	7.2								
G70.0	9.0	7.2								
G71.0	8.1	7.2								
G72.0	7.2	6.3								
G73.0	7.2	6.3								

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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:

