

Report No.:56.04011-Recessed Downlight Test Time: 2022-04-28 10:16

Luminaire Property

Luminaire Category: Citizen 701 3000K CRI90

Voltage: 217.6 V

Current: 0.044 A

Power: 8.90 W

Power Factor: 0.924

Photometric Results

CIE Class: Direct

Measurement Flux: 749.5 lm

Total Rated Lamp Lumens: 749.5 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Horizontal Diffuse Angle(25%,50%,75%,100%): H47.1,H36.9,H27.6,H1

Vertical Diffuse Angle(25%,50%,75%,100%): V47.1,V36.9,V27.6,V1

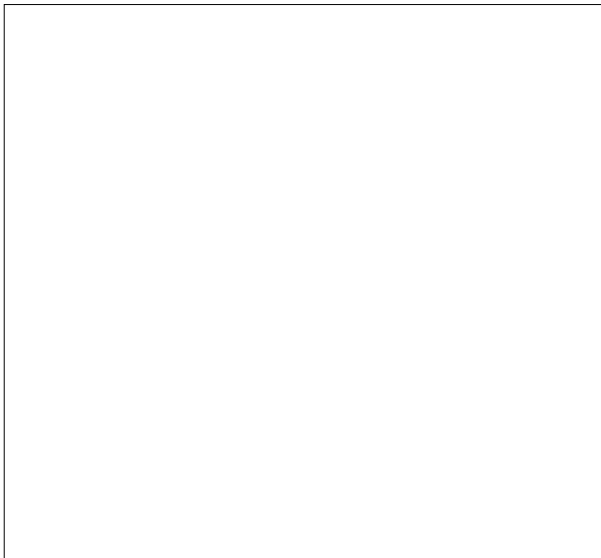
Luminaire Efficacy Rating (LER): 84

Central Intensity: 1730.43 cd

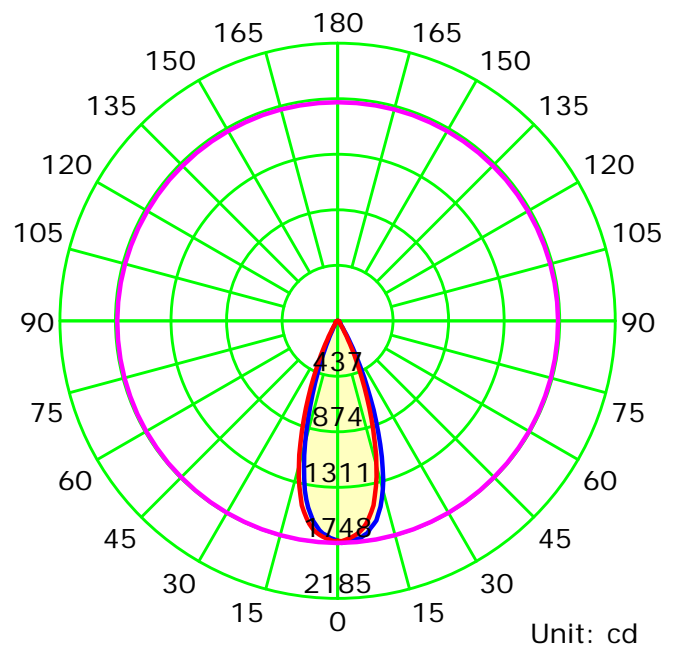
Max. Intensity: 1748.97 cd

Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 36.9°

— 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

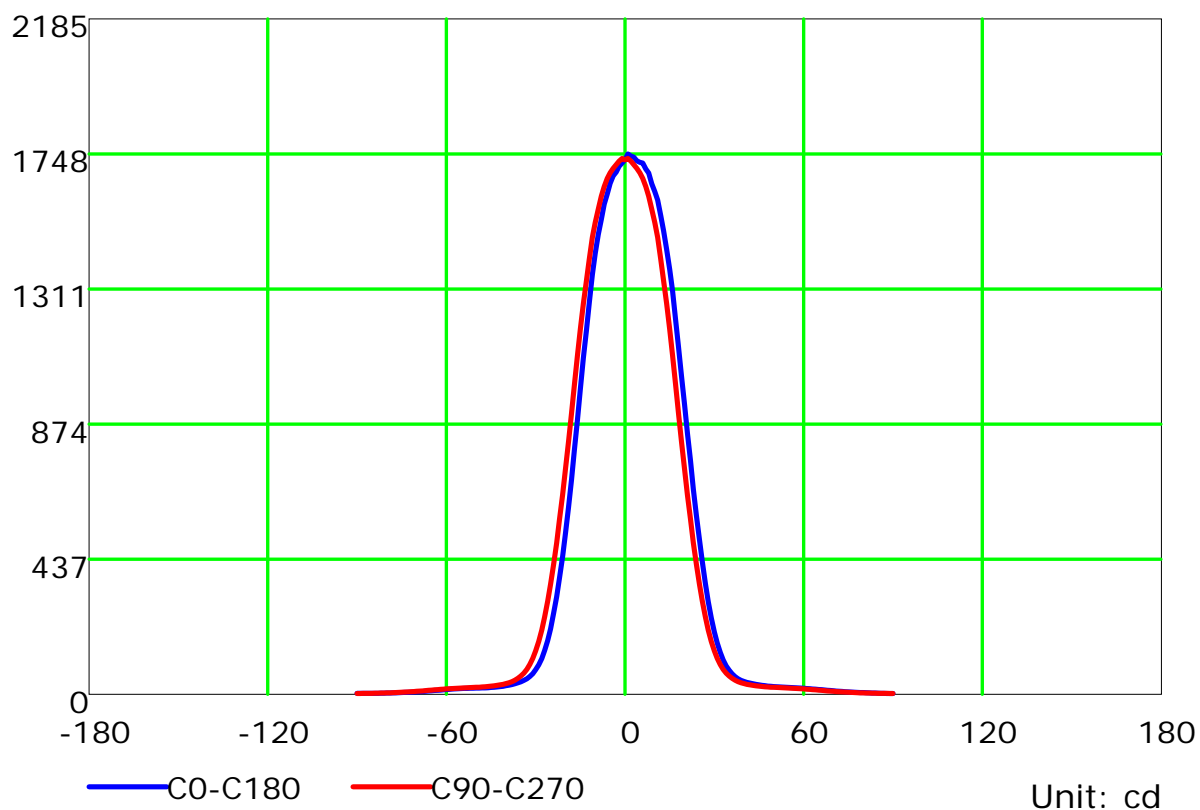
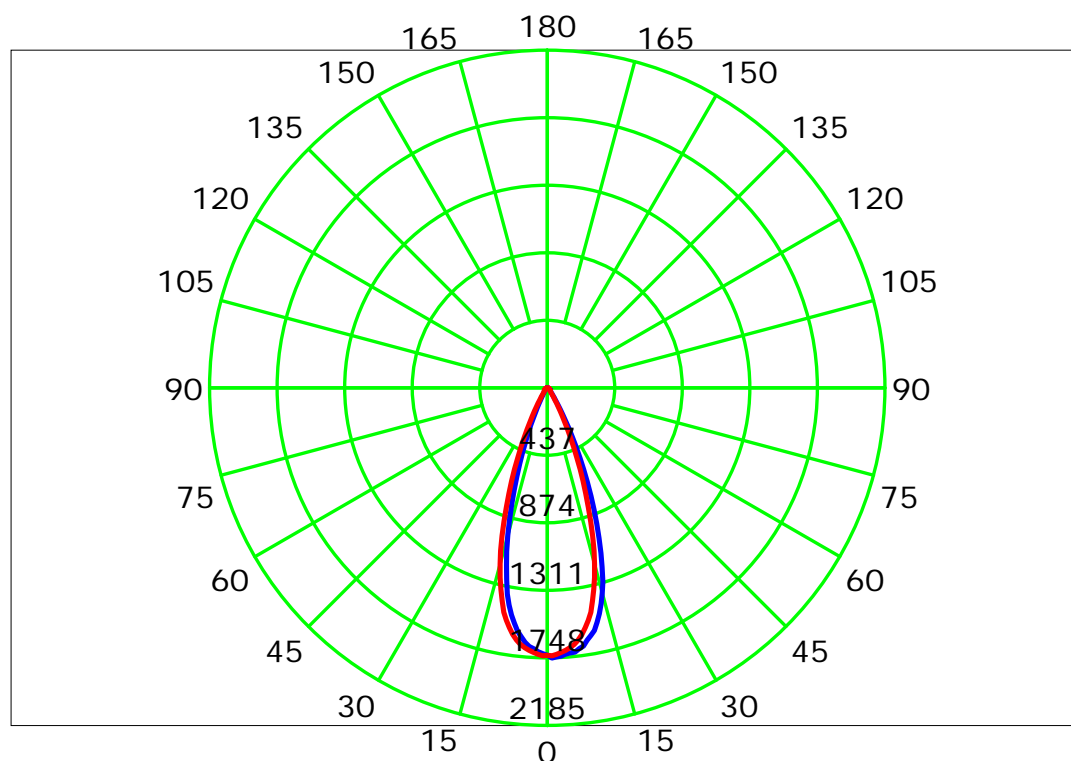
Test Device: CHL-6E

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

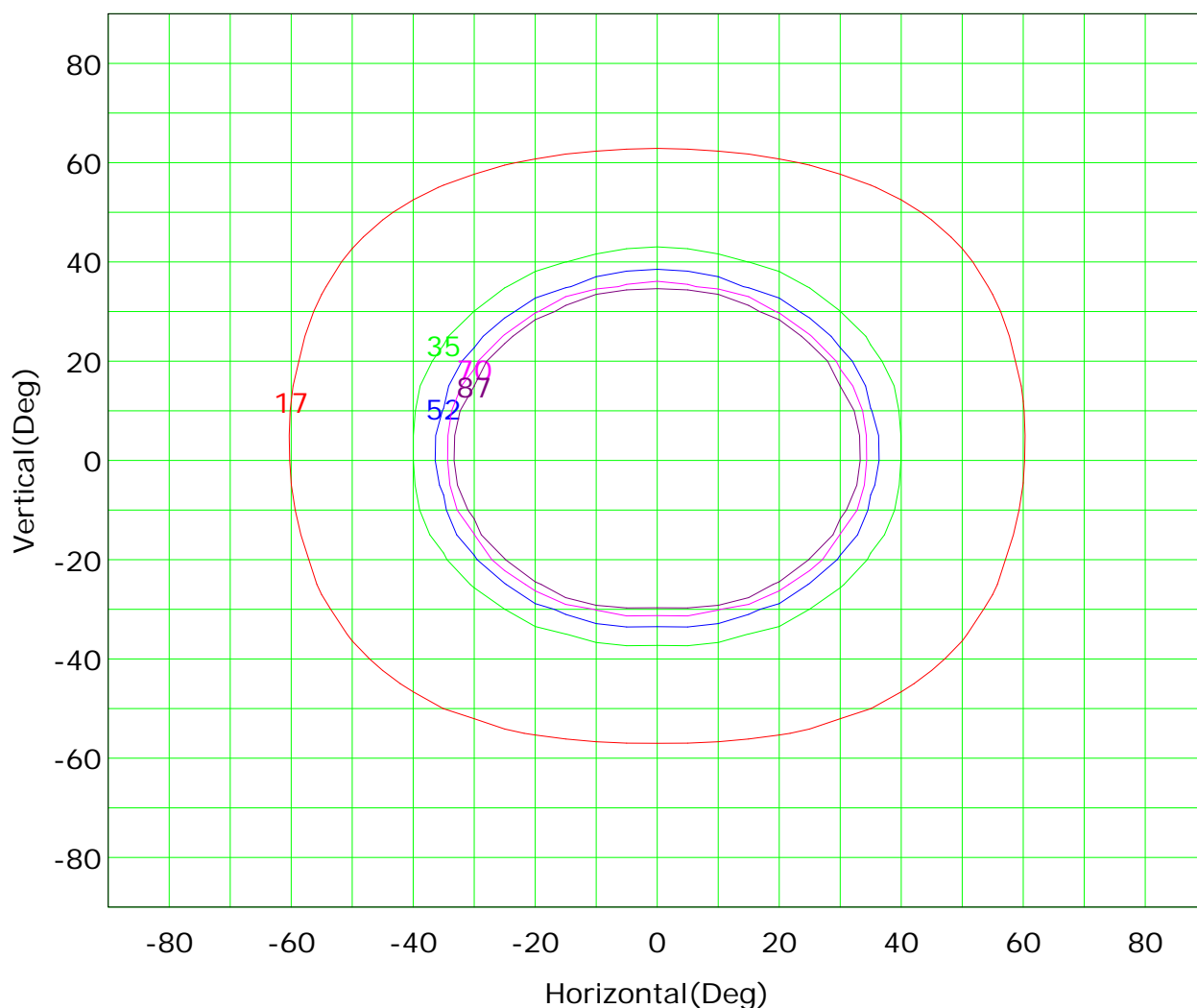
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

Isocandela (rectangle)



I_{max} (100%): 1749 cd

(1%): 17 cd
(3%): 52 cd
(5%): 87 cd

(2%): 35 cd
(4%): 70 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

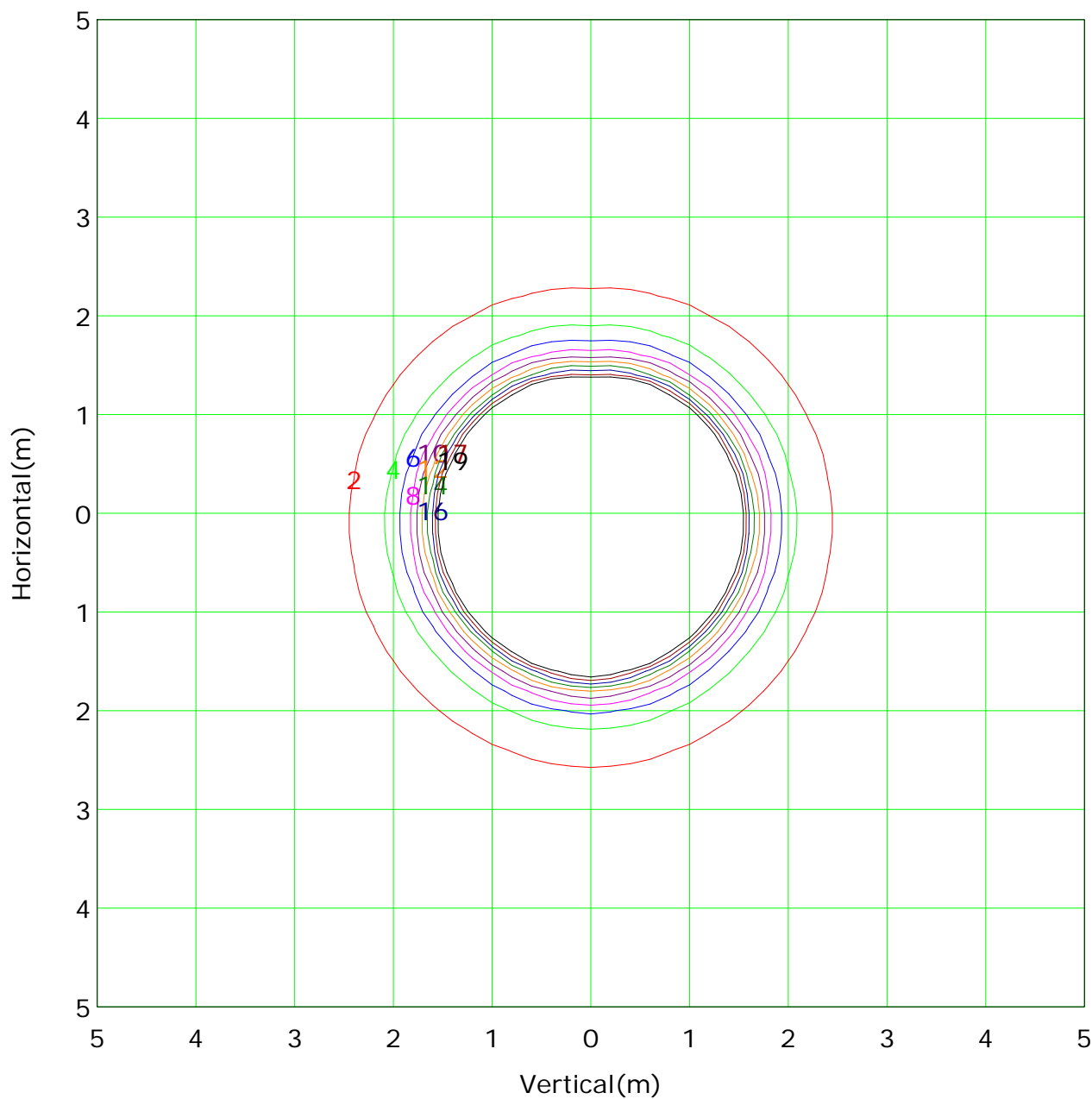
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 3m Max Lux(100%): 194 lx

(1%): 2 lx	(2%): 4 lx
(3%): 6 lx	(4%): 8 lx
(5%): 10 lx	(6%): 12 lx
(7%): 14 lx	(8%): 16 lx
(9%): 17 lx	(10%): 19 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

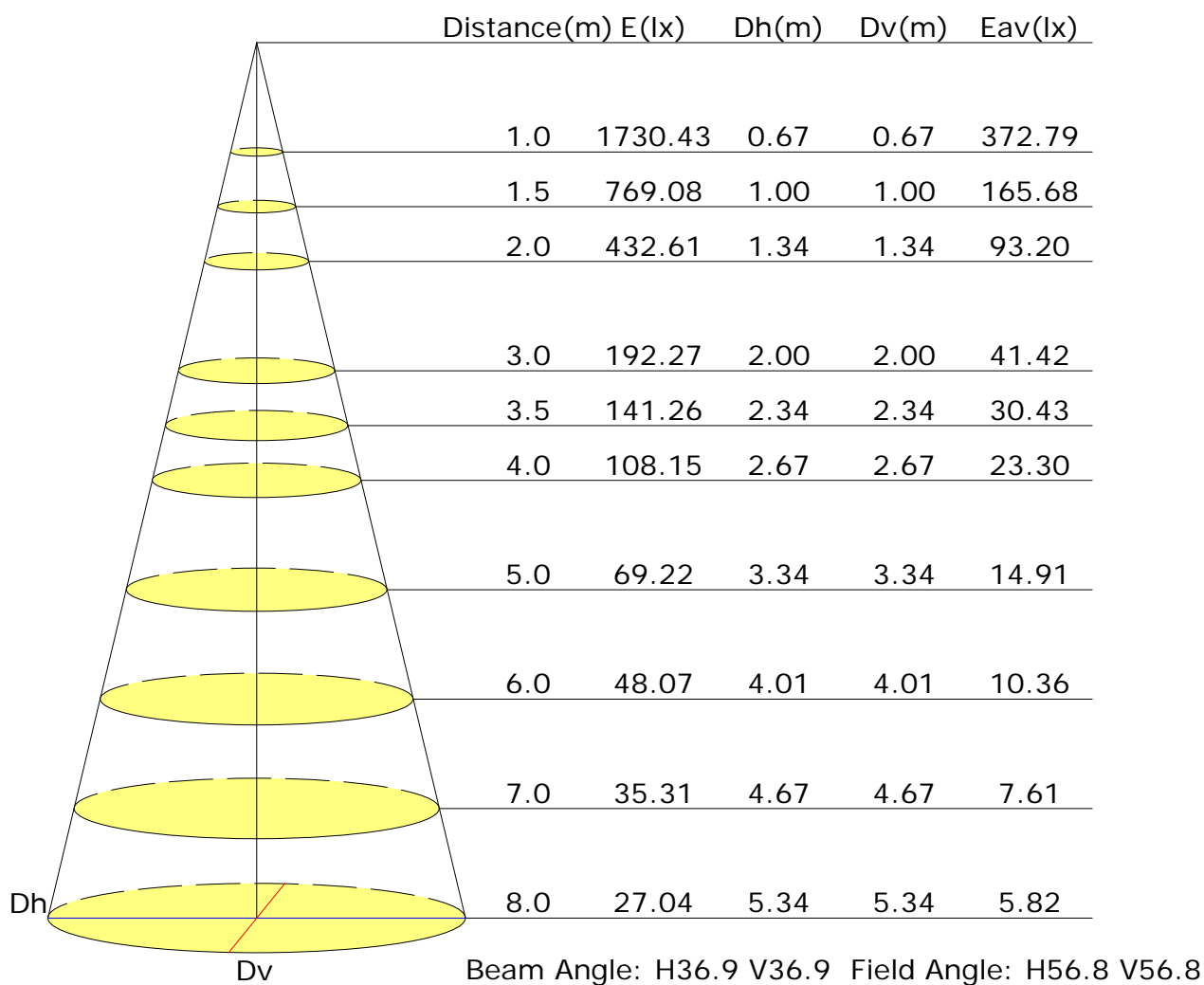
Test Device: CHL-6E

Distance: 3.000 m

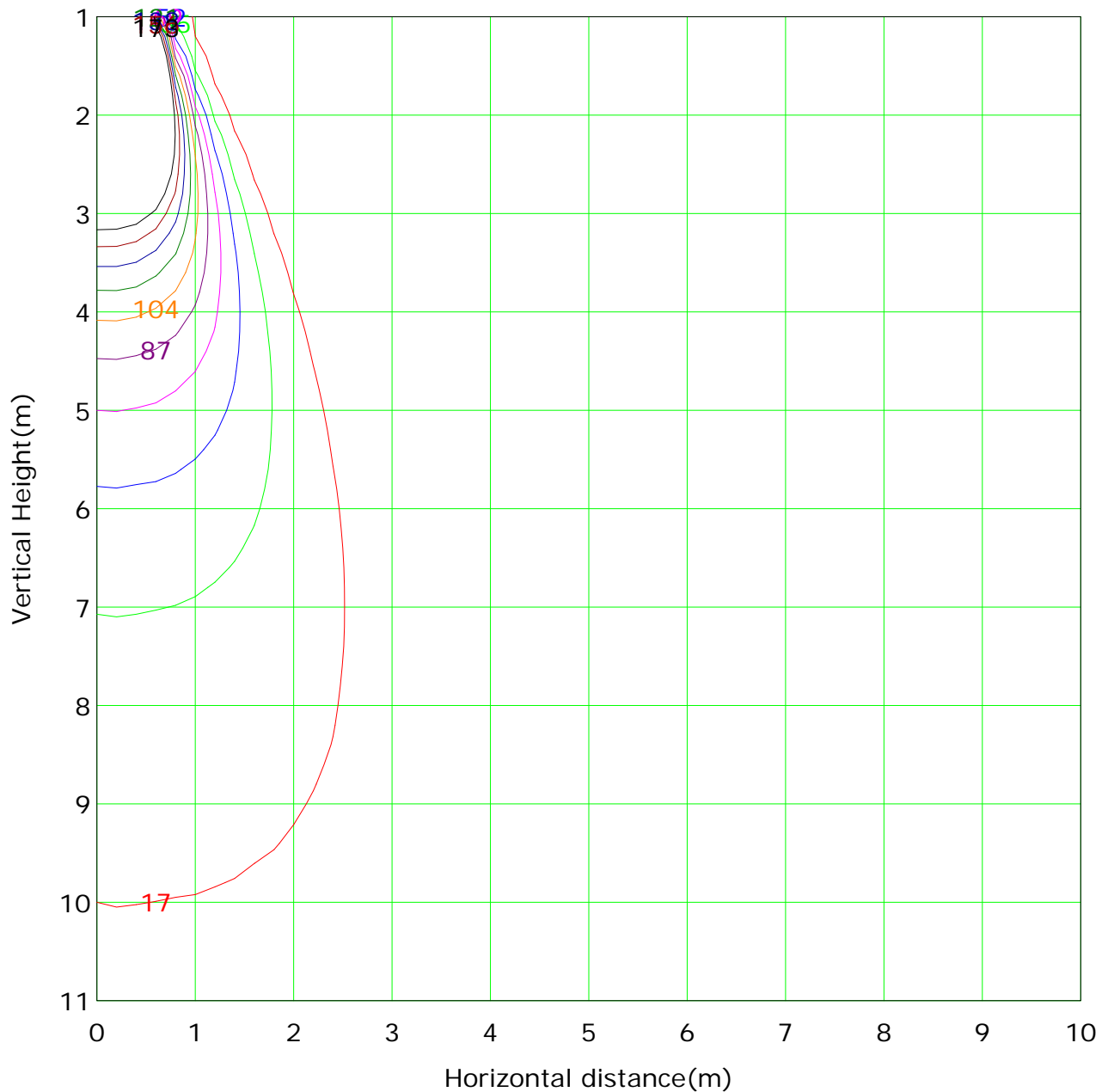
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1m Highest(m): 11 Max Lux: 1730	
(1%): 17 lx	(2%): 35 lx
(3%): 52 lx	(4%): 69 lx
(5%): 87 lx	(6%): 104 lx
(7%): 121 lx	(8%): 138 lx
(9%): 156 lx	(10%): 173 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

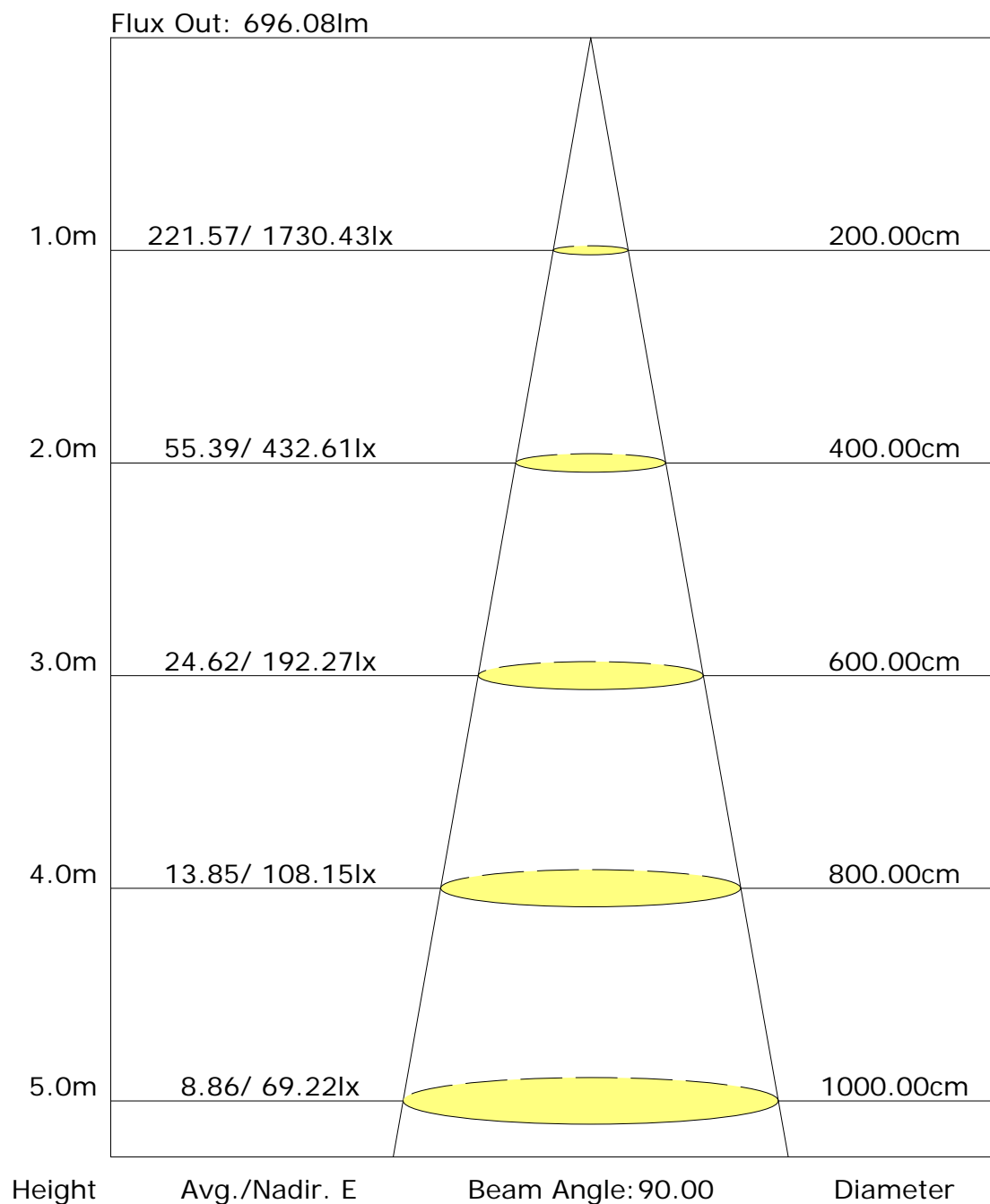
Test Device: CHL-6E

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	1730.4	1730.4								
G1.0	1749.0	1720.3								
G2.0	1742.7	1709.3								
G3.0	1738.7	1690.6								
G4.0	1727.1	1678.1								
G5.0	1722.2	1653.7								
G6.0	1719.9	1619.6								
G7.0	1700.5	1586.3								
G8.0	1687.4	1537.4								
G9.0	1652.8	1488.5								
G10.0	1627.4	1427.7								
G11.0	1599.8	1358.8								
G12.0	1550.1	1268.2								
G13.0	1500.5	1177.7								
G14.0	1440.3	1090.0								
G15.0	1376.3	988.4								
G16.0	1306.5	888.6								
G17.0	1212.6	792.3								
G18.0	1125.7	695.6								
G19.0	1029.4	604.8								
G20.0	937.8	520.9								
G21.0	845.3	445.5								
G22.0	757.1	378.1								
G23.0	663.4	316.0								
G24.0	578.9	262.8								
G25.0	501.4	212.2								
G26.0	429.1	174.3								
G27.0	359.4	142.2								
G28.0	300.4	115.8								
G29.0	247.5	95.4								
G30.0	202.4	79.9								
G31.0	166.4	67.2								
G32.0	135.9	57.8								
G33.0	111.4	50.6								
G34.0	91.9	45.3								
G35.0	77.8	40.9								
G36.0	66.5	37.5								

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	57.3	34.6								
G38.0	50.7	31.9								
G39.0	45.5	30.0								
G40.0	41.6	28.1								
G41.0	38.6	26.4								
G42.0	36.5	25.2								
G43.0	34.4	24.2								
G44.0	32.4	23.1								
G45.0	30.7	22.3								
G46.0	29.3	21.6								
G47.0	28.1	21.2								
G48.0	26.9	20.9								
G49.0	25.9	20.5								
G50.0	25.4	20.3								
G51.0	24.7	20.1								
G52.0	24.2	19.7								
G53.0	23.6	19.4								
G54.0	23.0	19.2								
G55.0	22.6	18.7								
G56.0	22.1	18.2								
G57.0	21.6	17.6								
G58.0	20.8	17.1								
G59.0	20.4	16.6								
G60.0	19.7	15.7								
G61.0	19.1	14.9								
G62.0	18.3	13.9								
G63.0	17.5	13.2								
G64.0	16.7	12.5								
G65.0	15.8	11.6								
G66.0	15.1	10.9								
G67.0	14.2	10.2								
G68.0	13.2	9.3								
G69.0	12.5	8.6								
G70.0	11.6	8.1								
G71.0	10.8	7.6								
G72.0	10.1	7.1								
G73.0	9.4	6.6								

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:

