

Report No.:

Test Time: 2024-08-28 17:50

## Luminaire Property

Luminaire Category:

Luminaire Description: 51.12511 24D

Current: 0.134 A

Power Factor: 0.971

Voltage: 223.5 V

Power: 29.20 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 2413.3 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H23.4

Vertical Diffuse Angle(50%): V23.4

Luminaire Efficacy Rating (LER): 83

Max. Intensity: 10047.95 cd

Total Rated Lamp Lumens: 2413.3 lm

Efficiency: 100%

Upward Ratio: 0%

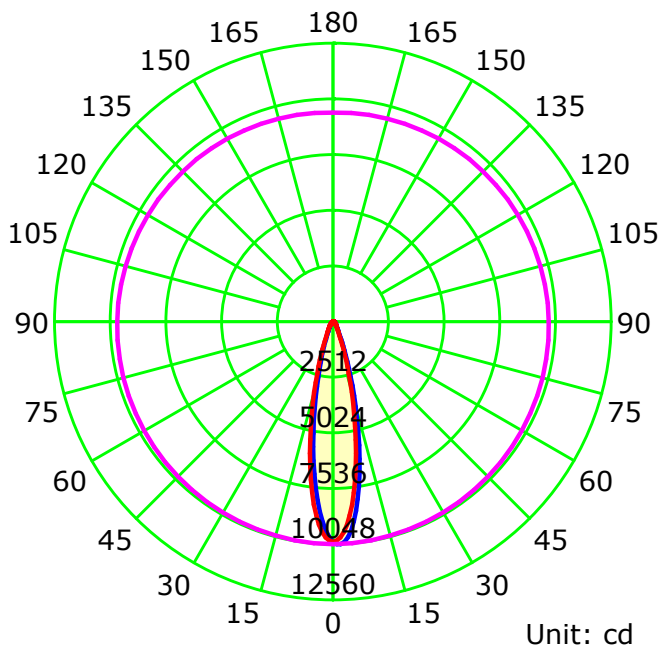
Central Intensity: 9934.5 cd

Pos of Max. Intensity: H0 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



— 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

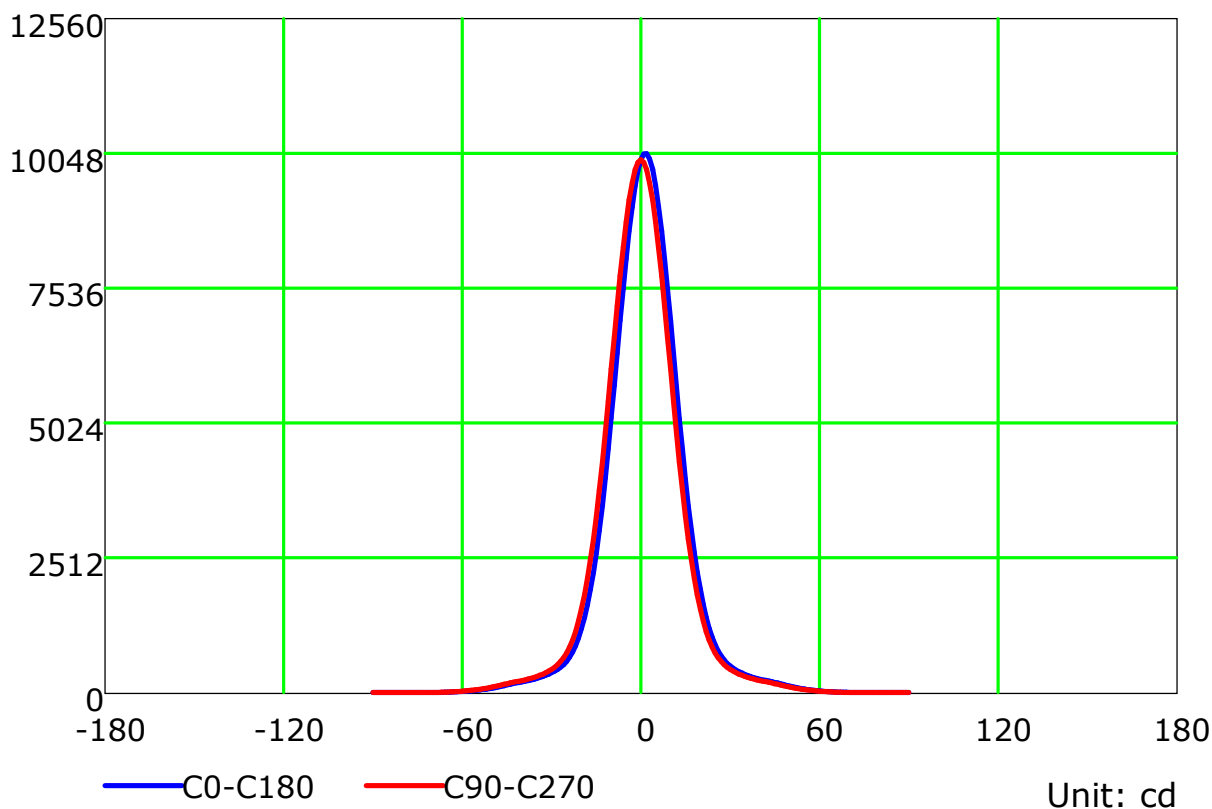
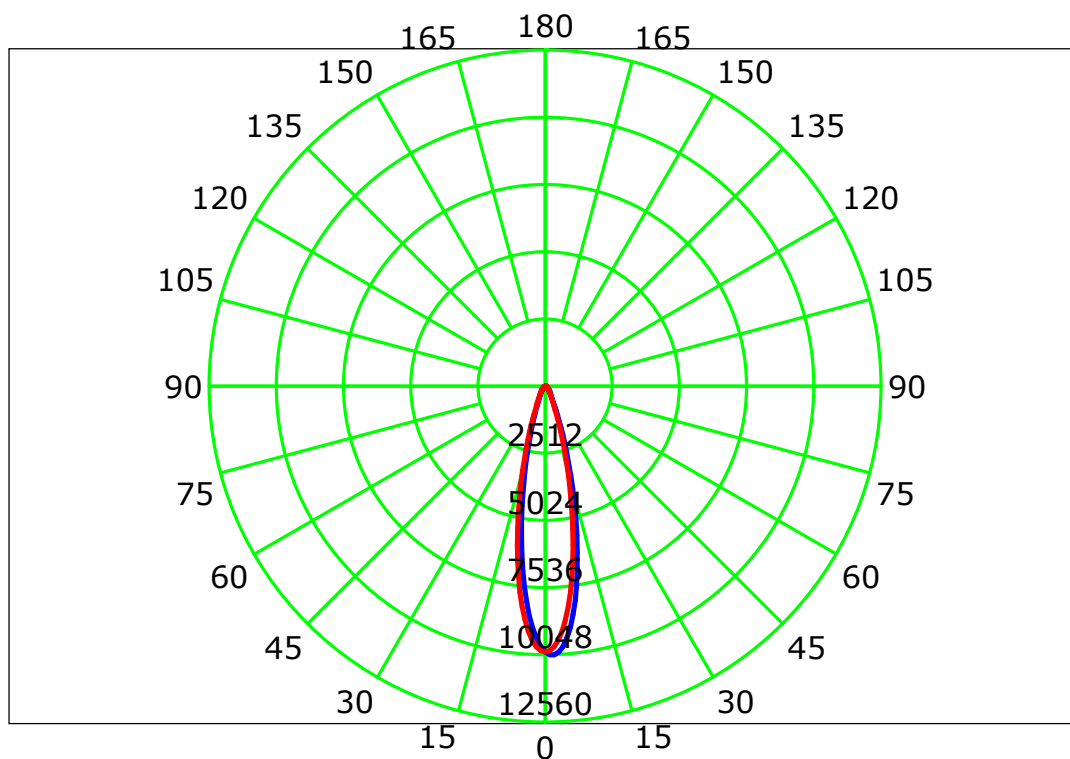
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

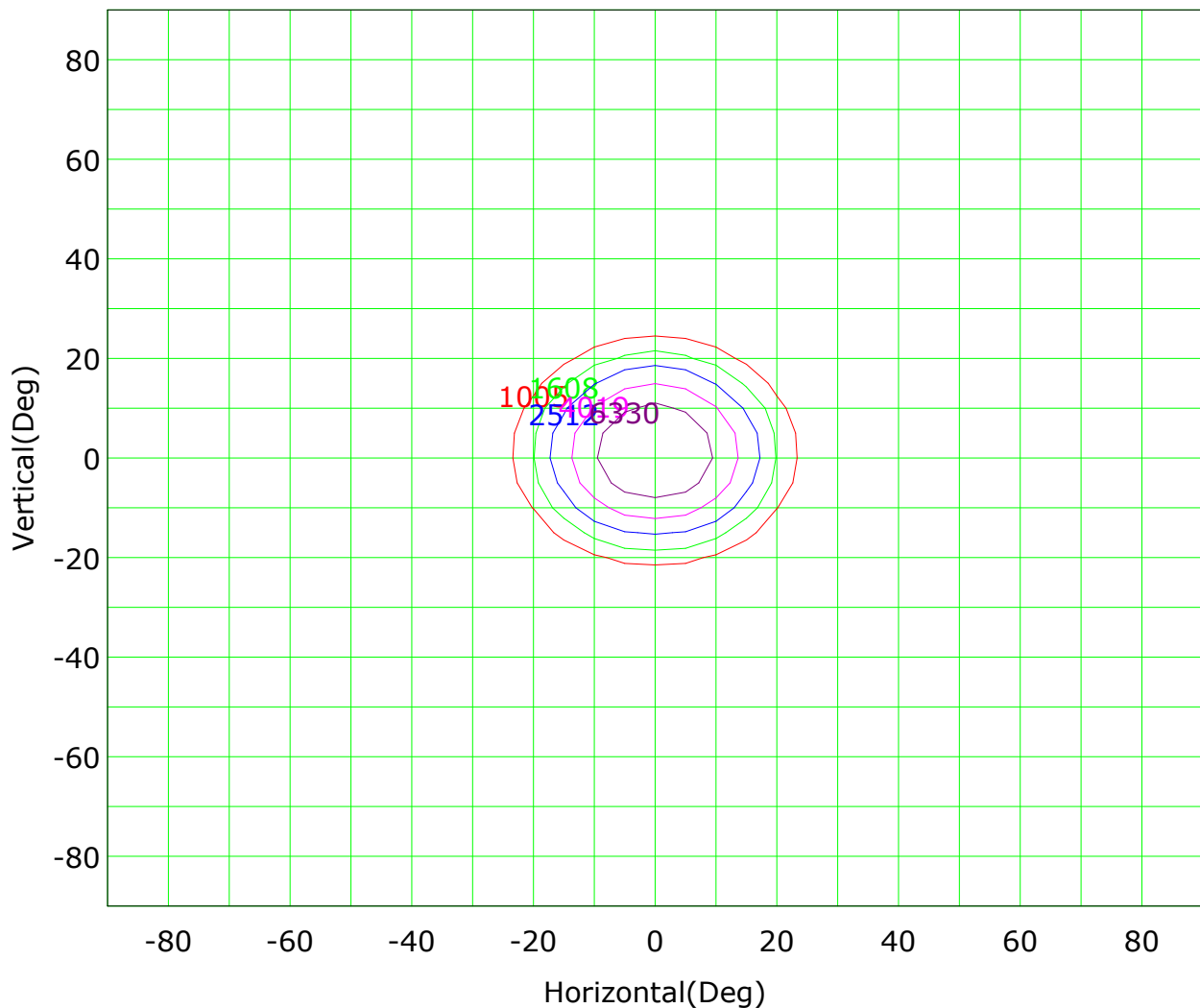
## Luminous Intensity Distribution Curve



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: 3.328 m  
Humidity:  
Inspector:

## Isocandela (rectangle)



Imax (100%): 10048 cd

( 10%): 1005 cd	( 16%): 1608 cd
( 25%): 2512 cd	( 40%): 4019 cd
( 63%): 6330 cd	(100%): 10048 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

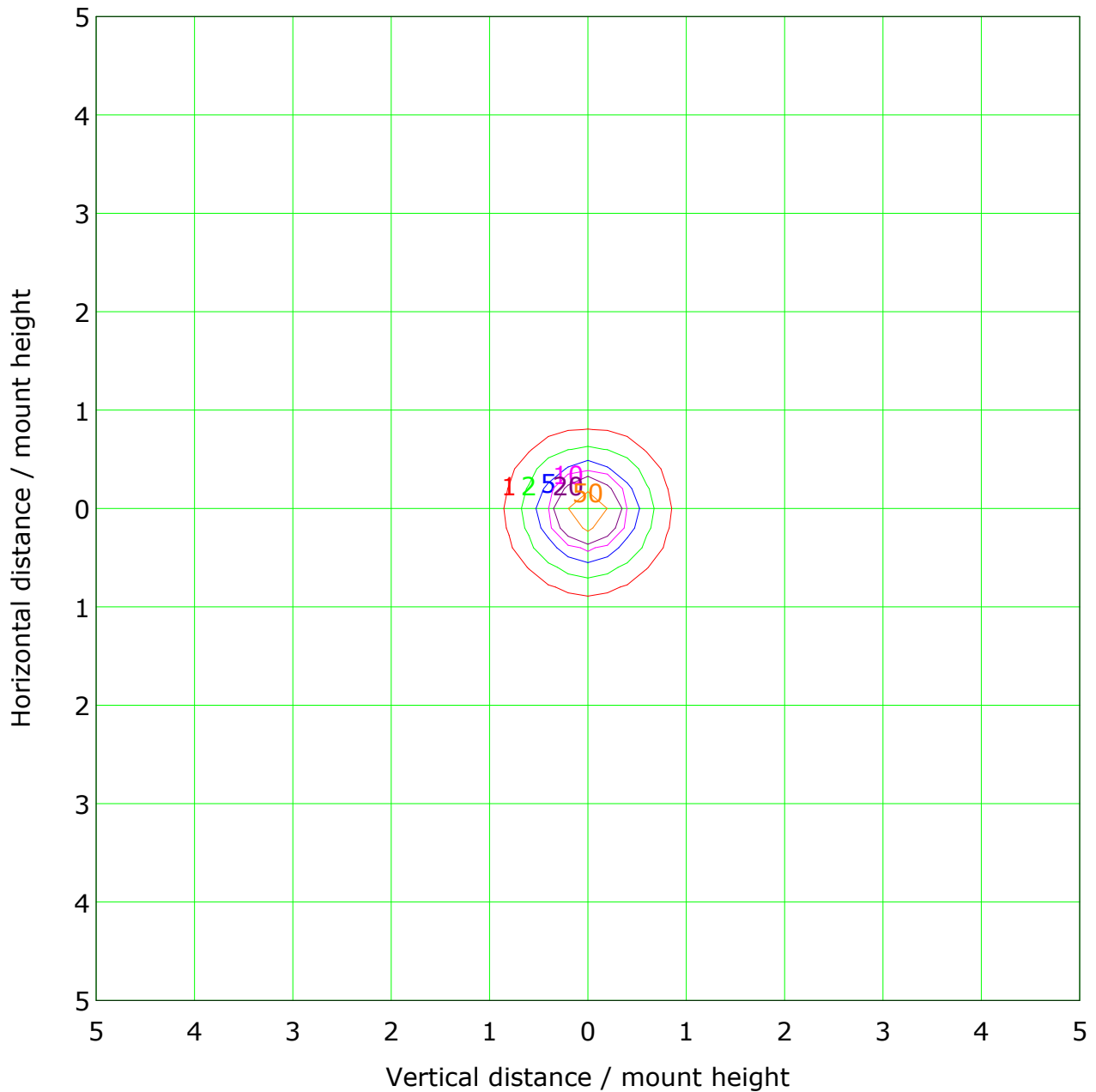
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10m		Max Lux(100%): 100 lx	
— ( 1%):	1 lx	— ( 2%):	2 lx
— ( 5%):	5 lx	— ( 10%):	10 lx
— ( 20%):	20 lx	— ( 50%):	50 lx
— (100%):	100 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

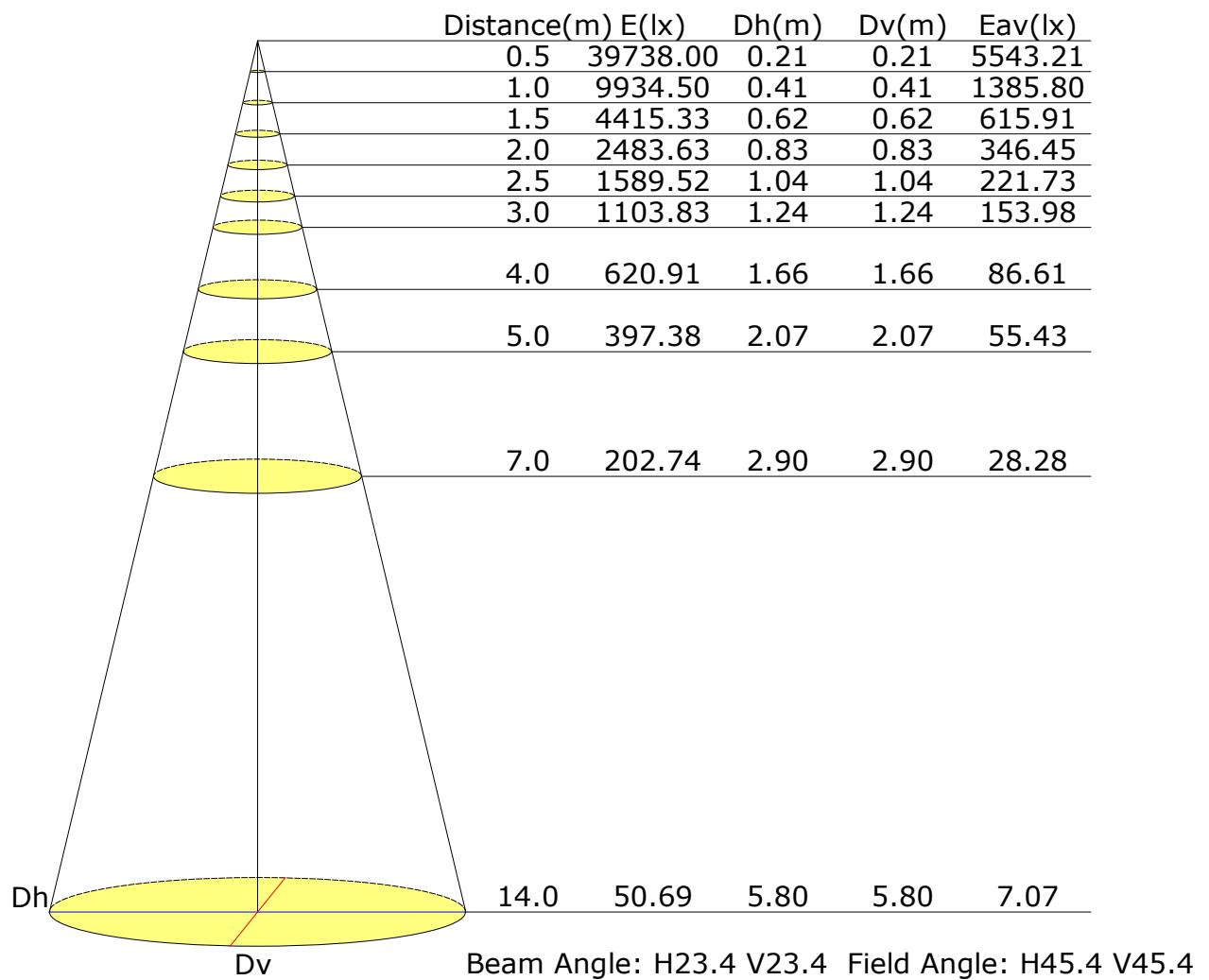
Test Device: CHL-6E

Distance: 3.328 m

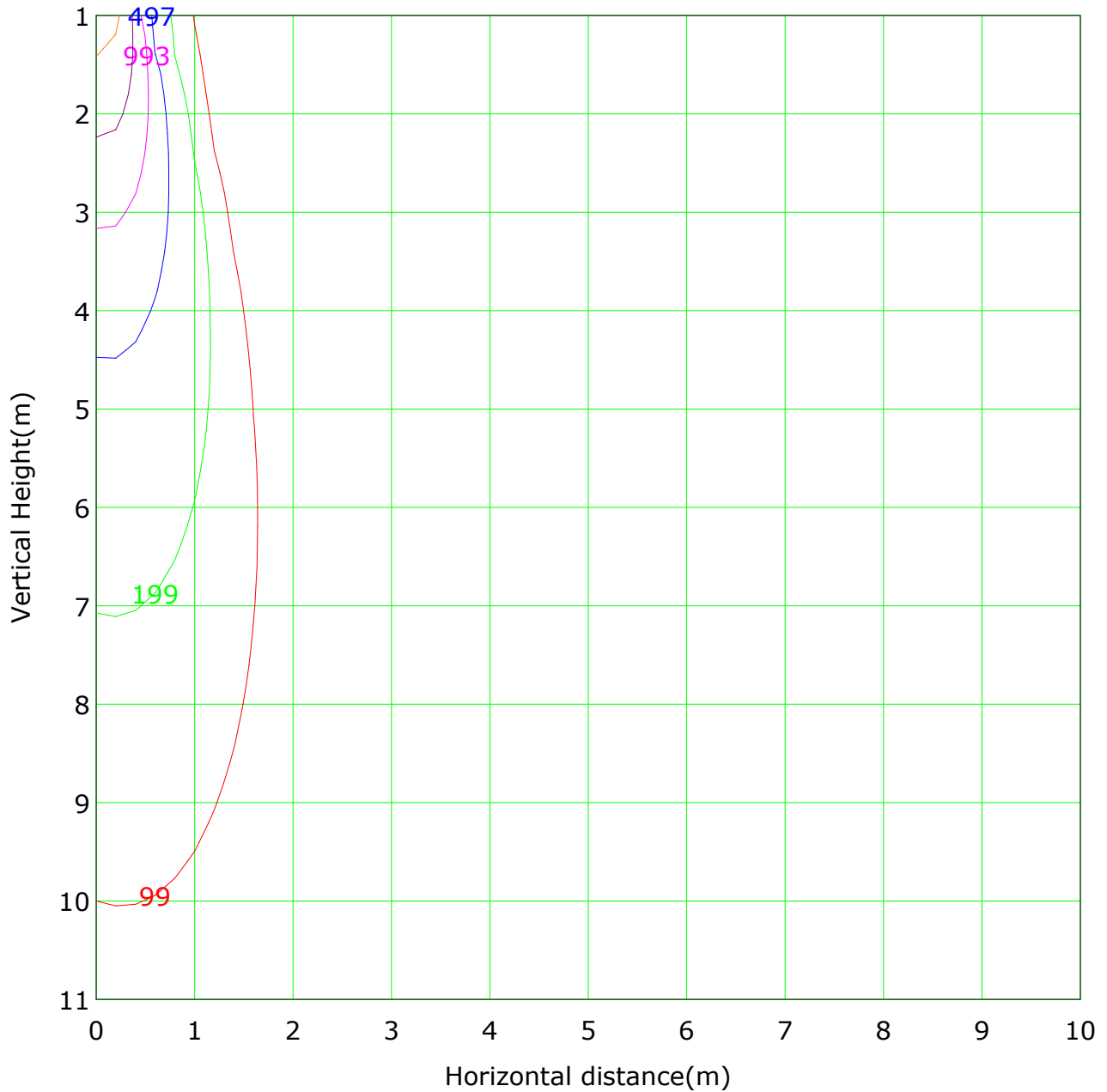
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



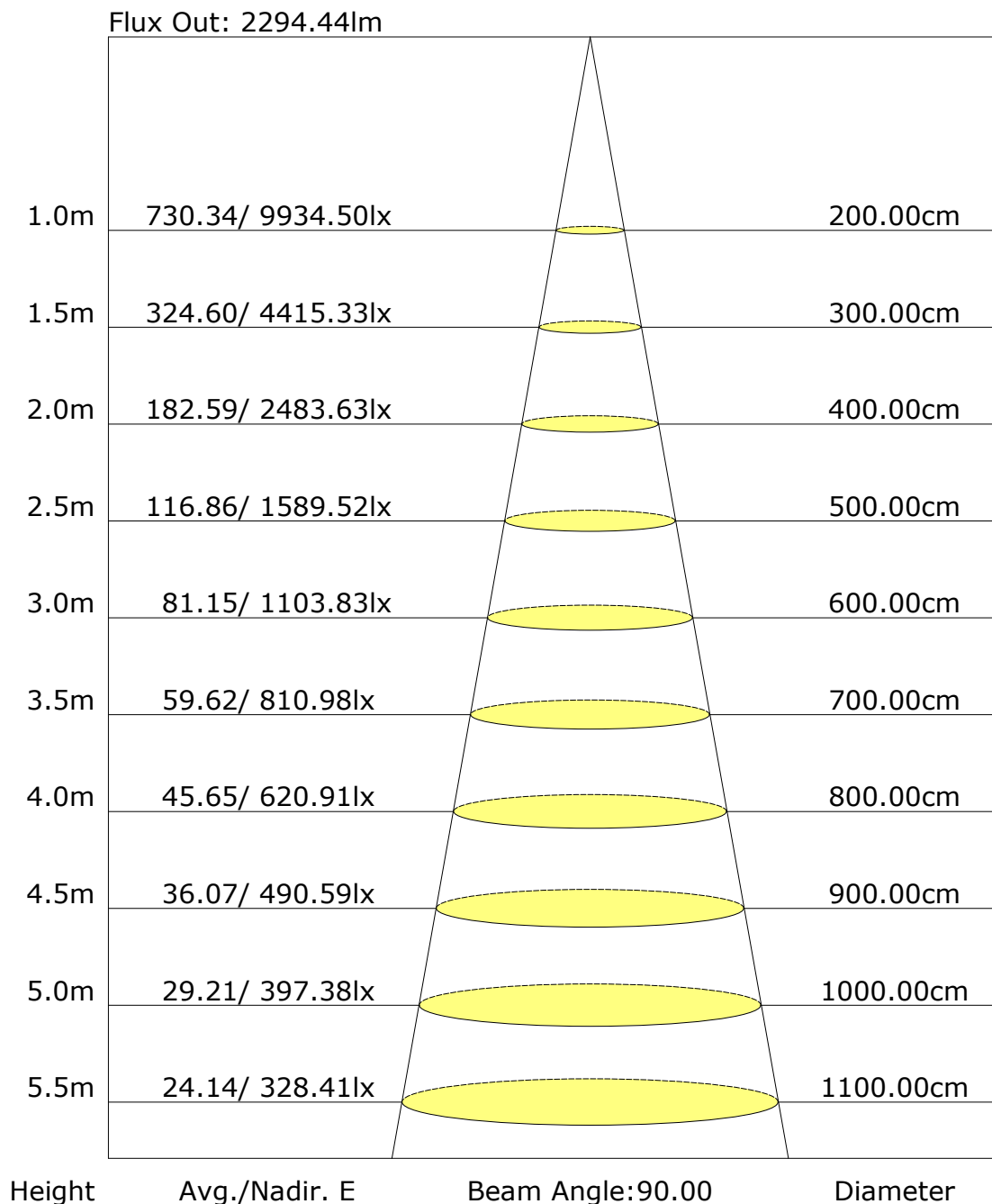
Lowest(m): 1m    Highest(m): 11    Max Lux: 9935

( 1%): 99 lx	( 2%): 199 lx
( 5%): 497 lx	( 10%): 993 lx
( 20%): 1987 lx	( 50%): 4967 lx
(100%): 9935 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: 3.328 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: 3.328 m  
Humidity:  
Inspector:

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	9910.2	9.5	9.5	0.39	0.39
1.0-2.0	9814.8	28.2	37.7	1.17	1.56
2.0-3.0	9623.5	46.0	83.7	1.91	3.47
3.0-4.0	9340.8	62.5	146.2	2.59	6.06
4.0-5.0	8974.3	77.2	223.4	3.20	9.26
5.0-6.0	8534.2	89.7	313.1	3.72	12.98
6.0-7.0	8034.0	99.7	412.9	4.13	17.11
7.0-8.0	7488.0	107.2	520.0	4.44	21.55
8.0-9.0	6915.4	112.1	632.1	4.64	26.19
9.0-10.0	6326.4	114.5	746.6	4.74	30.94
10.0-11.0	5728.6	114.5	861.1	4.74	35.68
11.0-12.0	5141.5	112.4	973.5	4.66	40.34
12.0-13.0	4575.2	108.6	1082.1	4.50	44.84
13.0-14.0	4036.3	103.3	1185.5	4.28	49.12
14.0-15.0	3534.2	97.0	1282.5	4.02	53.14
15.0-16.0	3075.5	90.1	1372.6	3.73	56.88
16.0-17.0	2663.1	82.9	1455.6	3.44	60.32
17.0-18.0	2296.0	75.7	1531.3	3.14	63.45
18.0-19.0	1972.8	68.6	1599.9	2.84	66.30
19.0-20.0	1689.2	61.8	1661.8	2.56	68.86
20.0-21.0	1444.2	55.5	1717.2	2.30	71.16
21.0-22.0	1235.4	49.7	1766.9	2.06	73.22
22.0-23.0	1059.3	44.5	1811.3	1.84	75.06
23.0-24.0	912.9	39.9	1851.2	1.65	76.71
24.0-25.0	792.2	36.0	1887.3	1.49	78.20
25.0-26.0	694.7	32.8	1920.1	1.36	79.56
26.0-27.0	615.8	30.1	1950.2	1.25	80.81
27.0-28.0	551.6	27.9	1978.1	1.16	81.97
28.0-29.0	498.7	26.1	2004.2	1.08	83.05
29.0-30.0	454.7	24.6	2028.8	1.02	84.07
30.0-31.0	417.6	23.2	2052.0	0.96	85.03
31.0-32.0	385.8	22.1	2074.1	0.92	85.95
32.0-33.0	358.7	21.1	2095.3	0.88	86.82
33.0-34.0	334.7	20.3	2115.5	0.84	87.66
34.0-35.0	312.9	19.4	2135.0	0.81	88.47
35.0-36.0	293.0	18.7	2153.6	0.77	89.24

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: 3.328 m  
Humidity:  
Inspector:



## Zonal Lumen (Continue 1)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	275.2	18.0	2171.6	0.74	89.98
37.0-38.0	259.0	17.3	2188.9	0.72	90.70
38.0-39.0	243.7	16.6	2205.5	0.69	91.39
39.0-40.0	230.3	16.1	2221.6	0.67	92.06
40.0-41.0	218.8	15.6	2237.1	0.65	92.70
41.0-42.0	208.2	15.1	2252.3	0.63	93.33
42.0-43.0	198.2	14.7	2267.0	0.61	93.94
43.0-44.0	187.0	14.1	2281.1	0.58	94.52
44.0-45.0	173.9	13.4	2294.4	0.55	95.08
45.0-46.0	161.1	12.6	2307.0	0.52	95.60
46.0-47.0	148.4	11.8	2318.8	0.49	96.09
47.0-48.0	134.3	10.9	2329.7	0.45	96.54
48.0-49.0	121.2	10.0	2339.7	0.41	96.95
49.0-50.0	109.1	9.1	2348.8	0.38	97.33
50.0-51.0	96.9	8.2	2357.0	0.34	97.67
51.0-52.0	86.3	7.4	2364.4	0.31	97.97
52.0-53.0	77.3	6.7	2371.1	0.28	98.25
53.0-54.0	68.3	6.0	2377.1	0.25	98.50
54.0-55.0	60.2	5.4	2382.5	0.22	98.72
55.0-56.0	53.0	4.8	2387.3	0.20	98.92
56.0-57.0	45.8	4.2	2391.5	0.17	99.10
57.0-58.0	39.9	3.7	2395.2	0.15	99.25
58.0-59.0	34.9	3.3	2398.4	0.14	99.38
59.0-60.0	30.2	2.9	2401.3	0.12	99.50
60.0-61.0	25.9	2.5	2403.7	0.10	99.61
61.0-62.0	21.5	2.1	2405.8	0.09	99.69
62.0-63.0	17.8	1.7	2407.5	0.07	99.76
63.0-64.0	14.7	1.4	2409.0	0.06	99.82
64.0-65.0	12.2	1.2	2410.2	0.05	99.87
65.0-66.0	10.0	1.0	2411.2	0.04	99.91
66.0-67.0	7.5	0.8	2411.9	0.03	99.94
67.0-68.0	5.0	0.5	2412.4	0.02	99.97
68.0-69.0	3.4	0.3	2412.8	0.01	99.98
69.0-70.0	2.5	0.3	2413.0	0.01	99.99
70.0-71.0	1.6	0.2	2413.2	0.01	100.00
71.0-72.0	0.6	0.1	2413.3	0.00	100.00

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: 3.328 m  
Humidity:  
Inspector:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

## Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	9934.5	9934.5								
G1.0	10038.0	9733.8								
G2.0	10047.9	9439.6								
G3.0	9949.5	9056.9								
G4.0	9753.7	8603.1								
G5.0	9449.6	8090.7								
G6.0	9063.1	7533.5								
G7.0	8603.1	6936.3								
G8.0	8084.5	6328.0								
G9.0	7524.7	5724.6								
G10.0	6931.3	5125.0								
G11.0	6315.5	4542.8								
G12.0	5707.1	4000.5								
G13.0	5106.3	3486.9								
G14.0	4529.0	3023.1								
G15.0	3979.3	2605.5								
G16.0	3479.4	2237.7								
G17.0	3019.4	1916.1								
G18.0	2611.7	1636.8								
G19.0	2246.4	1396.2								
G20.0	1926.1	1188.1								
G21.0	1645.6	1017.3								
G22.0	1405.0	873.9								
G23.0	1200.5	758.0								
G24.0	1031.0	662.0								
G25.0	892.6	583.4								
G26.0	777.9	524.8								
G27.0	684.4	476.2								
G28.0	610.9	435.1								
G29.0	548.5	400.2								
G30.0	498.7	371.5								
G31.0	455.0	345.3								
G32.0	420.1	322.9								
G33.0	390.2	301.7								
G34.0	364.0	283.0								
G35.0	339.1	265.5								
G36.0	317.9	249.3								

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: 3.328 m

Humidity:

Inspector:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	298.0	235.6								
G38.0	279.3	223.1								
G39.0	263.0	209.4								
G40.0	249.3	199.5								
G41.0	236.9	189.5								
G42.0	226.9	179.5								
G43.0	216.9	169.5								
G44.0	206.9	154.6								
G45.0	190.7	143.4								
G46.0	179.5	130.9								
G47.0	164.6	118.4								
G48.0	150.8	103.5								
G49.0	137.1	93.5								
G50.0	122.2	83.5								
G51.0	108.5	73.6								
G52.0	98.5	64.8								
G53.0	86.0	59.8								
G54.0	76.1	51.1								
G55.0	68.6	44.9								
G56.0	58.6	39.9								
G57.0	49.9	34.9								
G58.0	44.9	29.9								
G59.0	38.7	26.2								
G60.0	34.9	21.2								
G61.0	28.7	18.7								
G62.0	22.4	16.2								
G63.0	20.0	12.5								
G64.0	16.2	10.0								
G65.0	13.7	8.7								
G66.0	11.2	6.2								
G67.0	8.7	3.7								
G68.0	6.2	1.3								
G69.0	6.2	0.0								
G70.0	3.7	0.0								
G71.0	2.5	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: 3.328 m

Humidity:

Inspector:

## Unit: cd

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector: