

Report No.:60.04012 Mini Recessed  
Downlight

Test Time: 2024-10-13 18:26

## Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.048 A

Power Factor: 0.671

Voltage: 237.3 V

Power: 7.60 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 419.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H36.3

Vertical Diffuse Angle(50%): V36.3

Luminaire Efficacy Rating (LER): 55

Max. Intensity: 985.98 cd

Total Rated Lamp Lumens: 419.9 lm

Efficiency: 100%

Upward Ratio: 0%

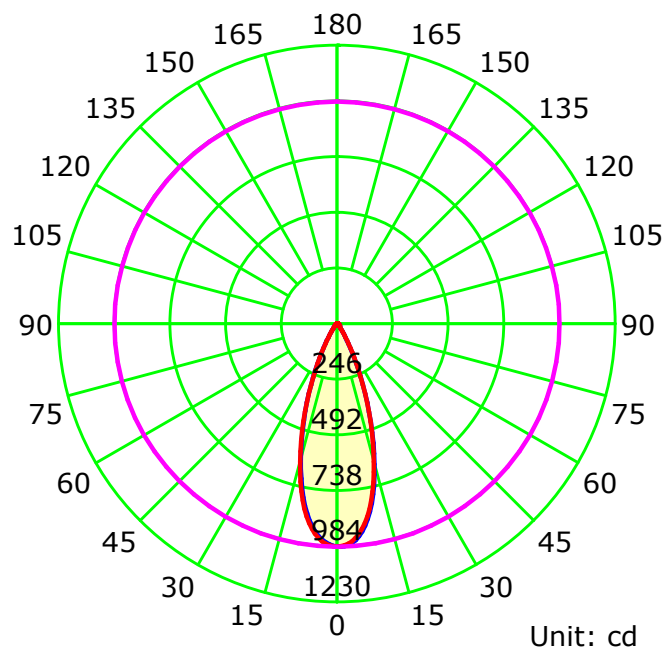
Central Intensity: 985.36 cd

Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



— 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

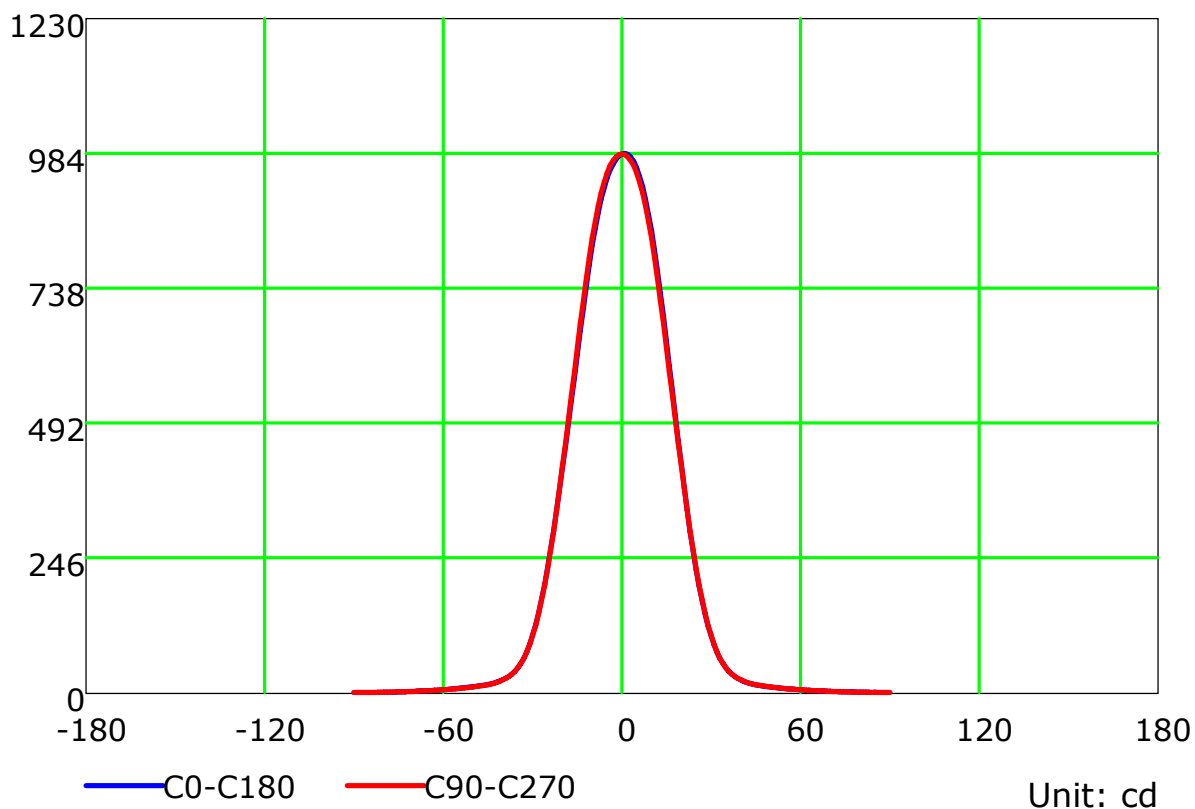
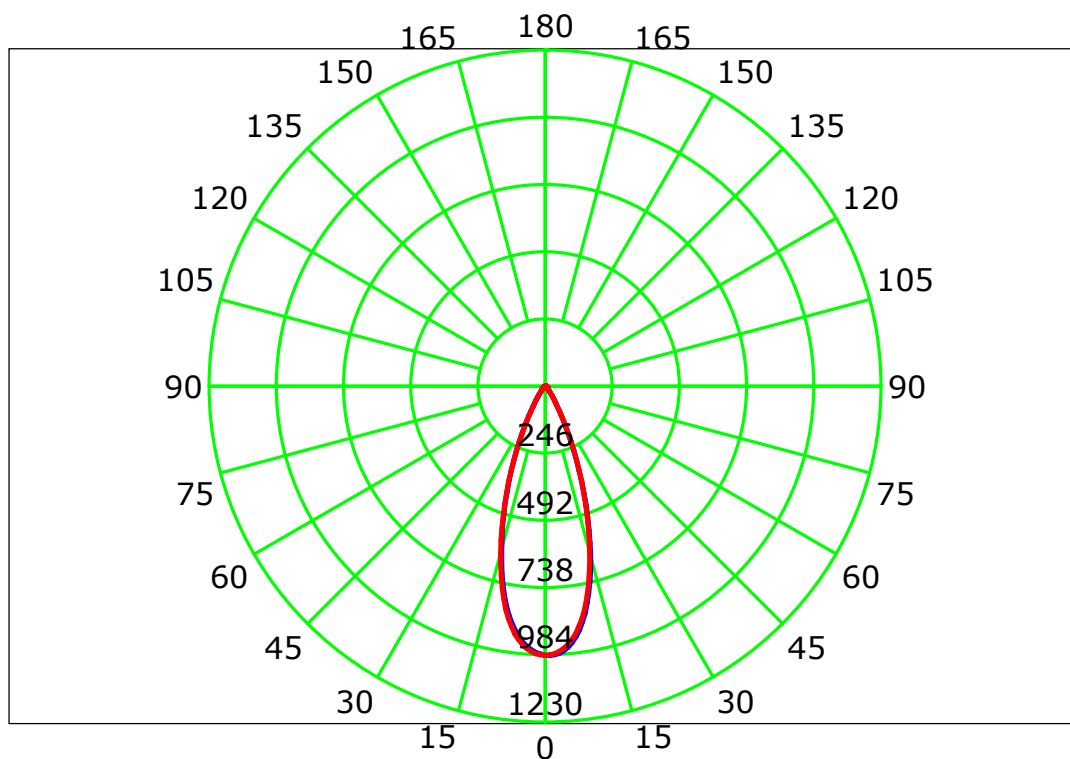
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

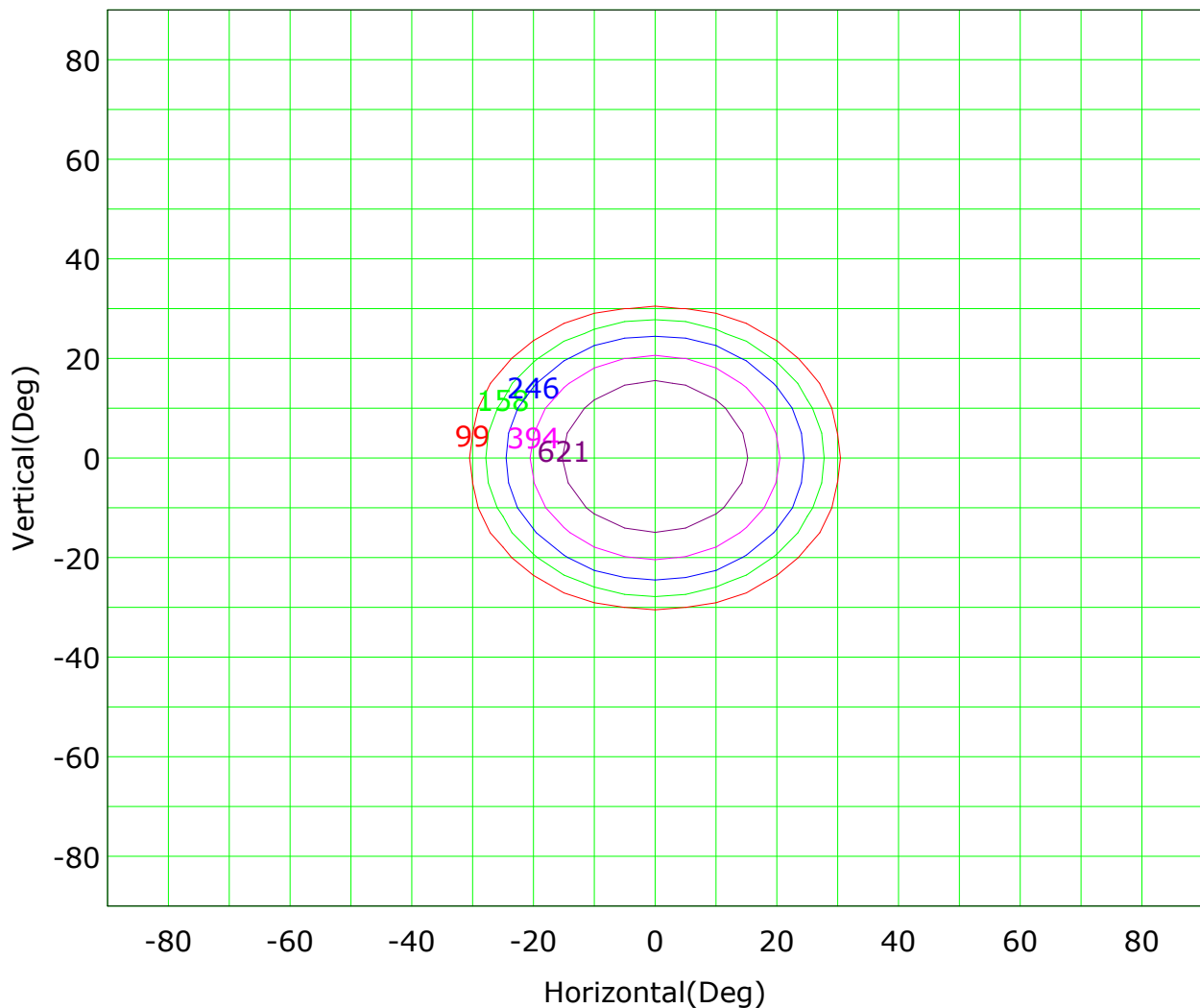
## Luminous Intensity Distribution Curve



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%): 986 cd

( 10%):	99 cd	( 16%):	158 cd
( 25%):	246 cd	( 40%):	394 cd
( 63%):	621 cd	(100%):	986 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

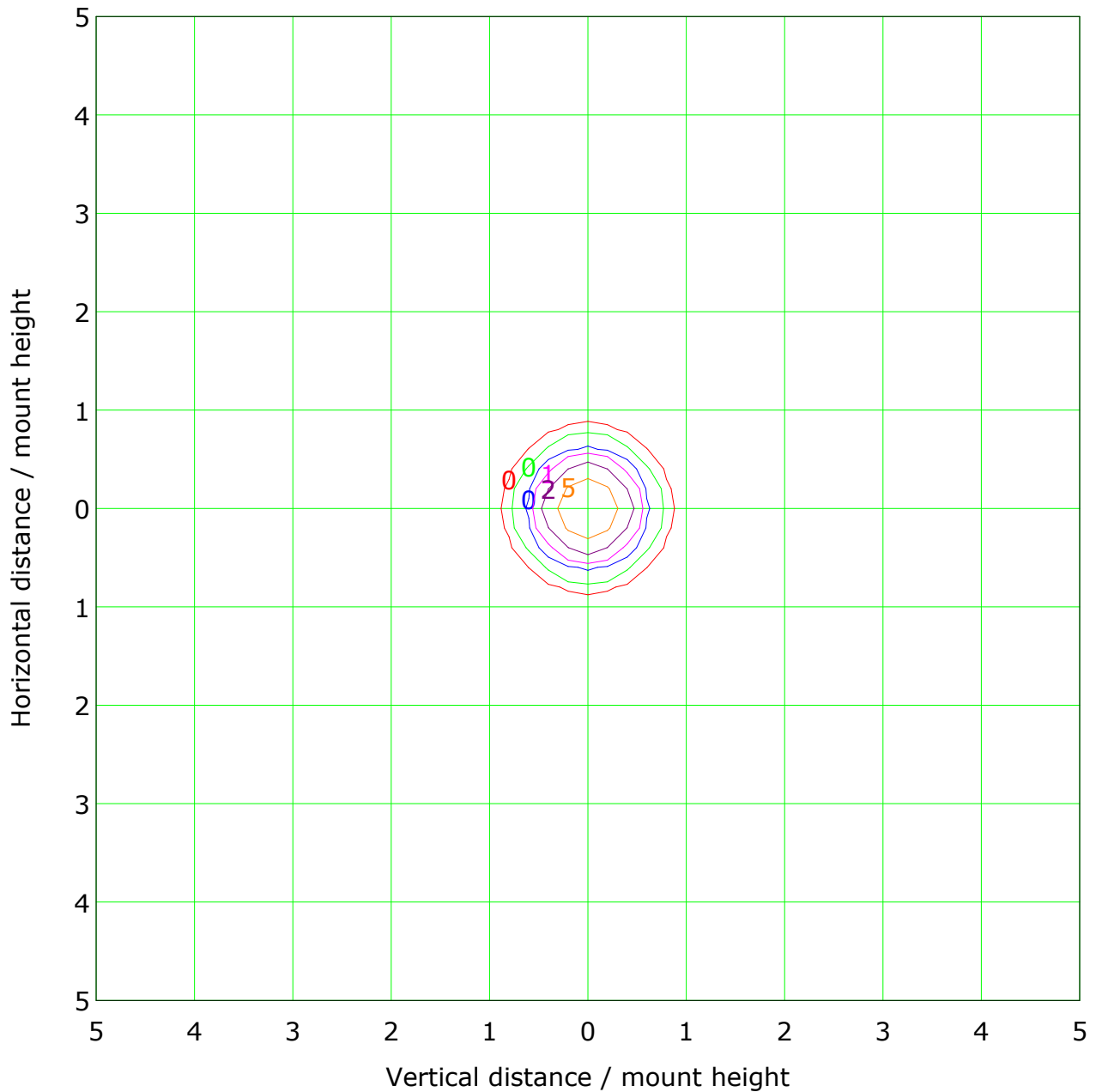
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10m    Max Lux(100%): 10 lx			
— ( 1%):	0 lx	— ( 2%):	0 lx
— ( 5%):	0 lx	— ( 10%):	1 lx
— ( 20%):	2 lx	— ( 50%):	5 lx
— (100%):	10 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

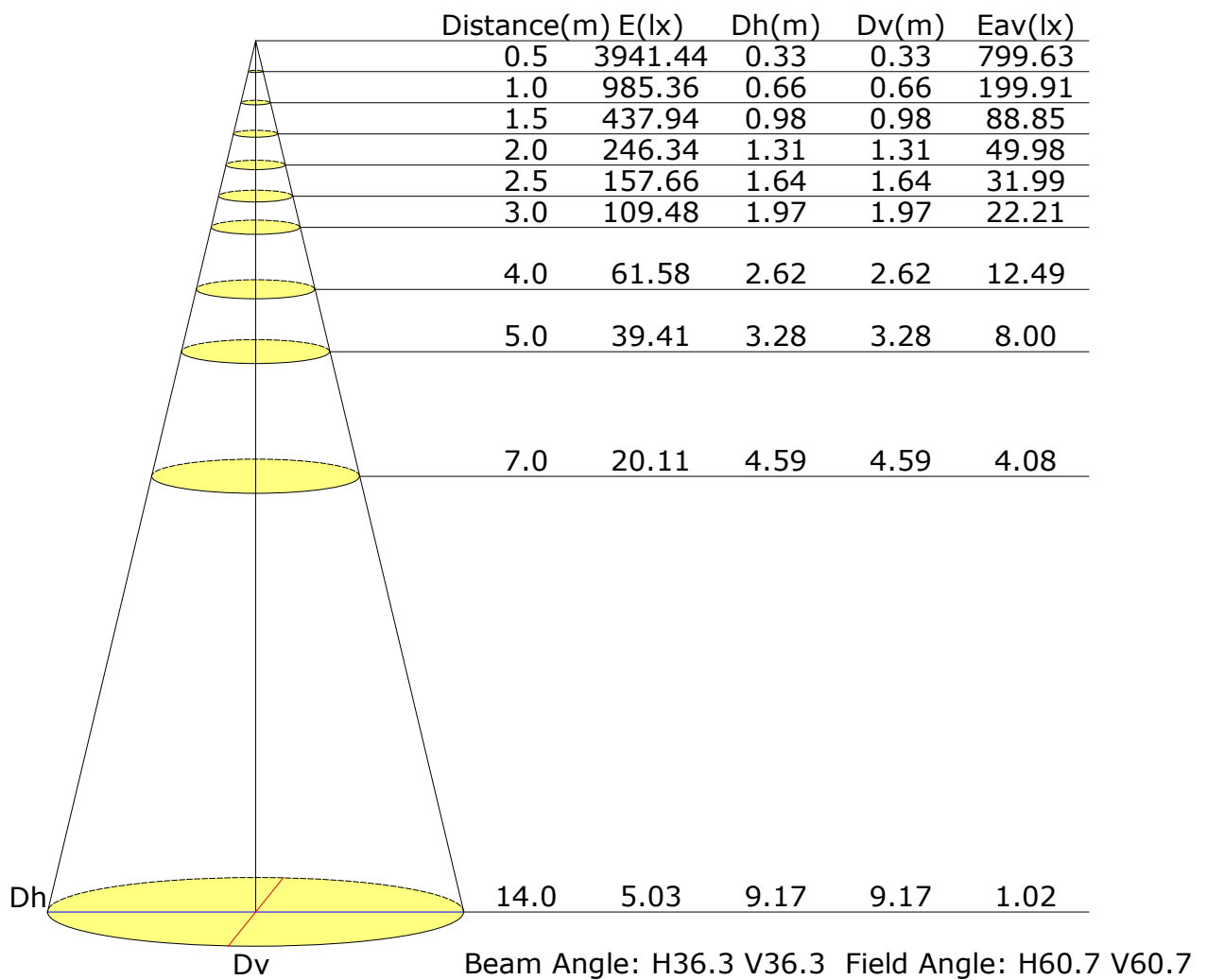
Test Device: CHL-6E

Distance: 3.328 m

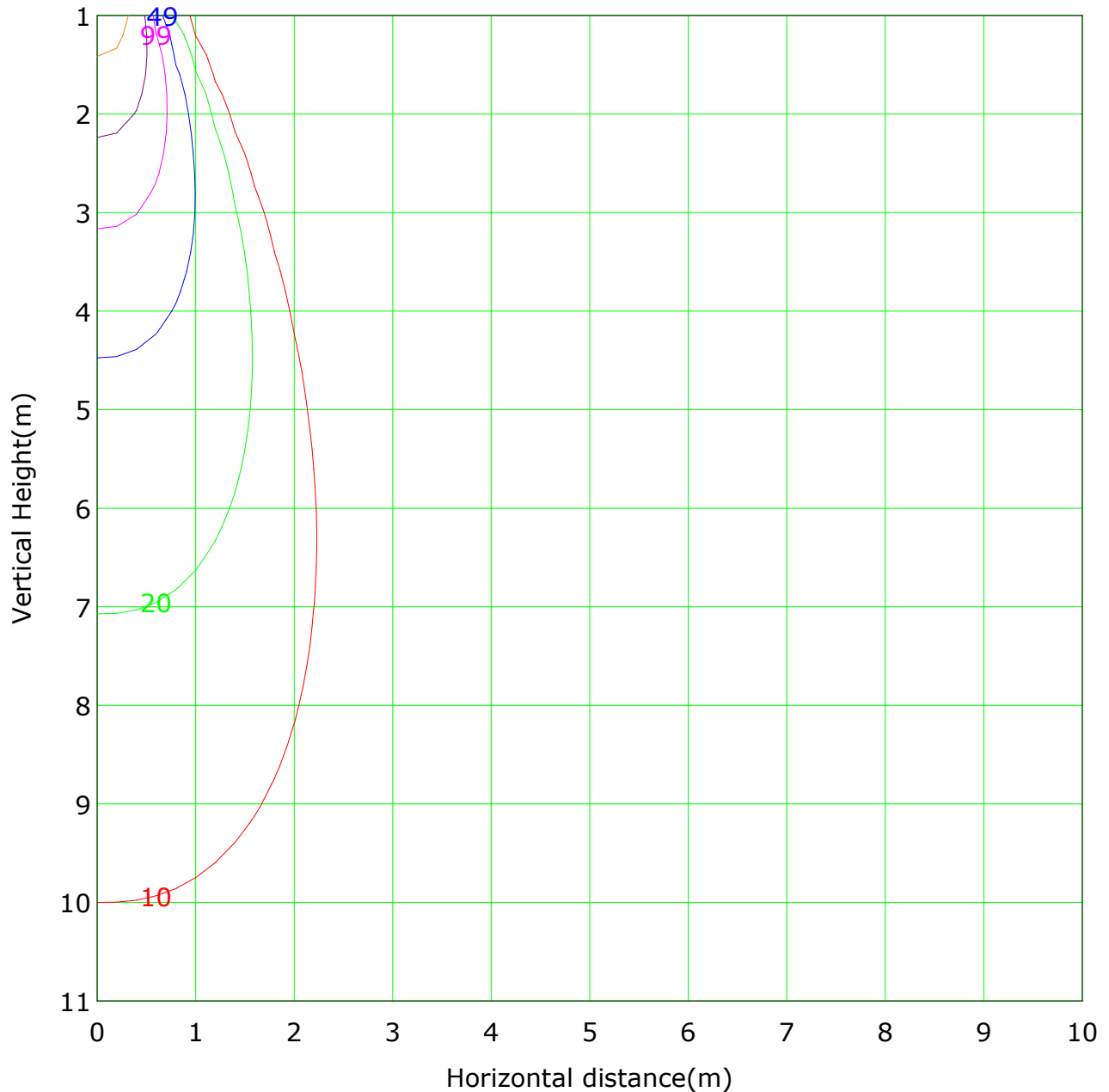
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot

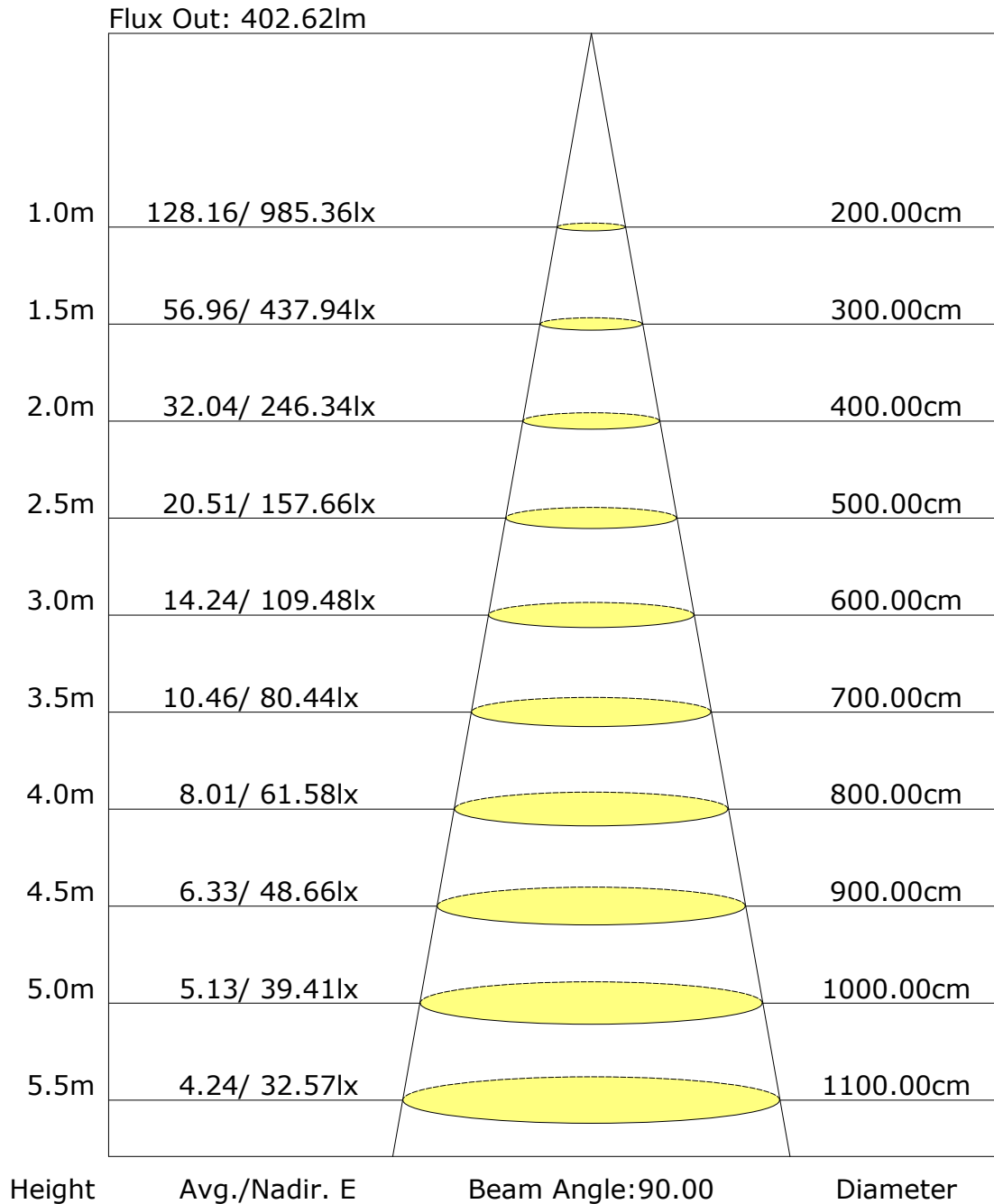


Lowest(m): 1m    Highest(m): 11    Max Lux: 985	
( 1%): 10 lx	( 2%): 20 lx
( 5%): 49 lx	( 10%): 99 lx
( 20%): 197 lx	( 50%): 493 lx
(100%): 985 lx	

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	984.6	0.9	0.9	0.22	0.22
1.0-2.0	981.9	2.8	3.8	0.67	0.90
2.0-3.0	976.7	4.7	8.4	1.11	2.01
3.0-4.0	968.7	6.5	14.9	1.54	3.55
4.0-5.0	957.4	8.2	23.2	1.96	5.51
5.0-6.0	942.4	9.9	33.1	2.36	7.87
6.0-7.0	923.9	11.5	44.5	2.73	10.60
7.0-8.0	901.6	12.9	57.4	3.07	13.68
8.0-9.0	875.7	14.2	71.6	3.38	17.06
9.0-10.0	846.3	15.3	86.9	3.65	20.70
10.0-11.0	813.1	16.2	103.2	3.87	24.57
11.0-12.0	776.6	17.0	120.2	4.04	28.62
12.0-13.0	737.6	17.5	137.7	4.17	32.79
13.0-14.0	696.3	17.8	155.5	4.24	37.03
14.0-15.0	653.3	17.9	173.4	4.27	41.30
15.0-16.0	609.3	17.9	191.3	4.25	45.55
16.0-17.0	565.0	17.6	208.9	4.19	49.74
17.0-18.0	520.9	17.2	226.1	4.09	53.83
18.0-19.0	477.6	16.6	242.7	3.96	57.79
19.0-20.0	435.0	15.9	258.6	3.79	61.58
20.0-21.0	393.5	15.1	273.7	3.60	65.18
21.0-22.0	353.3	14.2	287.9	3.38	68.56
22.0-23.0	314.5	13.2	301.1	3.14	71.71
23.0-24.0	277.6	12.1	313.3	2.89	74.60
24.0-25.0	243.2	11.1	324.3	2.63	77.23
25.0-26.0	211.8	10.0	334.3	2.38	79.61
26.0-27.0	183.1	9.0	343.3	2.13	81.74
27.0-28.0	157.1	8.0	351.2	1.89	83.64
28.0-29.0	134.1	7.0	358.2	1.67	85.31
29.0-30.0	113.8	6.1	364.4	1.46	86.77
30.0-31.0	96.2	5.4	369.8	1.28	88.05
31.0-32.0	81.2	4.7	374.4	1.11	89.16
32.0-33.0	68.5	4.0	378.4	0.96	90.12
33.0-34.0	58.0	3.5	382.0	0.84	90.95
34.0-35.0	49.3	3.1	385.0	0.73	91.68
35.0-36.0	42.2	2.7	387.7	0.64	92.32

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	36.4	2.4	390.1	0.57	92.89
37.0-38.0	31.8	2.1	392.2	0.50	93.39
38.0-39.0	28.0	1.9	394.1	0.46	93.85
39.0-40.0	24.9	1.7	395.8	0.41	94.26
40.0-41.0	22.2	1.6	397.4	0.38	94.64
41.0-42.0	20.0	1.5	398.9	0.35	94.98
42.0-43.0	18.1	1.3	400.2	0.32	95.30
43.0-44.0	16.4	1.2	401.5	0.30	95.60
44.0-45.0	15.1	1.2	402.6	0.28	95.87
45.0-46.0	14.1	1.1	403.7	0.26	96.14
46.0-47.0	13.1	1.0	404.8	0.25	96.38
47.0-48.0	12.3	1.0	405.8	0.24	96.62
48.0-49.0	11.6	1.0	406.7	0.23	96.85
49.0-50.0	10.9	0.9	407.6	0.22	97.06
50.0-51.0	10.2	0.9	408.5	0.21	97.27
51.0-52.0	9.6	0.8	409.3	0.20	97.46
52.0-53.0	8.9	0.8	410.1	0.19	97.65
53.0-54.0	8.4	0.7	410.8	0.18	97.83
54.0-55.0	7.8	0.7	411.5	0.17	97.99
55.0-56.0	7.3	0.7	412.2	0.16	98.15
56.0-57.0	6.8	0.6	412.8	0.15	98.30
57.0-58.0	6.4	0.6	413.4	0.14	98.44
58.0-59.0	5.9	0.6	413.9	0.13	98.57
59.0-60.0	5.5	0.5	414.5	0.12	98.69
60.0-61.0	5.2	0.5	414.9	0.12	98.81
61.0-62.0	4.7	0.5	415.4	0.11	98.92
62.0-63.0	4.3	0.4	415.8	0.10	99.02
63.0-64.0	4.0	0.4	416.2	0.09	99.11
64.0-65.0	3.8	0.4	416.6	0.09	99.20
65.0-66.0	3.5	0.3	416.9	0.08	99.28
66.0-67.0	3.2	0.3	417.3	0.08	99.36
67.0-68.0	3.0	0.3	417.6	0.07	99.43
68.0-69.0	2.8	0.3	417.8	0.07	99.50
69.0-70.0	2.4	0.2	418.1	0.06	99.56
70.0-71.0	2.2	0.2	418.3	0.05	99.61
71.0-72.0	2.0	0.2	418.5	0.05	99.66

C Plane (°):0.0-180.0: 180.0  
Test Lab:  
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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	985.4	985.4								
G1.0	986.0	981.6								
G2.0	984.4	975.5								
G3.0	979.6	967.2								
G4.0	971.7	956.1								
G5.0	960.0	941.7								
G6.0	944.1	923.8								
G7.0	925.1	902.4								
G8.0	901.6	877.5								
G9.0	874.5	849.3								
G10.0	844.0	817.5								
G11.0	808.8	782.1								
G12.0	771.6	743.9								
G13.0	731.3	703.5								
G14.0	688.5	661.8								
G15.0	643.6	619.4								
G16.0	597.9	576.4								
G17.0	551.6	534.0								
G18.0	505.9	492.2								
G19.0	461.3	450.8								
G20.0	417.4	410.4								
G21.0	374.8	371.2								
G22.0	334.0	333.2								
G23.0	294.5	296.3								
G24.0	258.1	261.6								
G25.0	224.6	228.6								
G26.0	195.5	198.4								
G27.0	167.5	170.9								
G28.0	143.6	146.4								
G29.0	122.0	124.4								
G30.0	103.7	105.2								
G31.0	87.8	88.4								
G32.0	74.2	74.5								
G33.0	62.6	62.8								
G34.0	53.4	53.1								
G35.0	45.4	45.3								
G36.0	39.0	39.0								

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:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	33.8	33.9								
G38.0	29.5	29.8								
G39.0	26.0	26.7								
G40.0	23.1	23.8								
G41.0	20.5	21.4								
G42.0	18.6	19.4								
G43.0	16.8	17.5								
G44.0	15.3	16.1								
G45.0	14.3	14.9								
G46.0	13.2	13.9								
G47.0	12.4	12.9								
G48.0	11.6	12.4								
G49.0	10.8	11.7								
G50.0	10.2	10.8								
G51.0	9.6	10.2								
G52.0	8.9	9.6								
G53.0	8.3	8.9								
G54.0	7.9	8.3								
G55.0	7.3	7.7								
G56.0	6.9	7.1								
G57.0	6.5	6.7								
G58.0	6.0	6.3								
G59.0	5.7	5.7								
G60.0	5.3	5.3								
G61.0	5.1	4.8								
G62.0	4.5	4.5								
G63.0	4.2	4.2								
G64.0	3.8	3.8								
G65.0	3.6	3.7								
G66.0	3.3	3.2								
G67.0	3.1	3.0								
G68.0	3.0	3.0								
G69.0	2.7	2.4								
G70.0	2.5	2.1								
G71.0	2.2	2.0								
G72.0	2.0	1.9								
G73.0	1.9	1.6								

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Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
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## Unit: cd

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