

Report No.:95.04513 Surface Mounted Light Test Time: 2024-09-29 19:59

## Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.178 A

Power Factor: 0.979

Voltage: 227.2 V

Power: 39.70 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 3413.6 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H23.1

Vertical Diffuse Angle(50%): V23.1

Luminaire Efficacy Rating (LER): 86

Max. Intensity: 14635.59 cd

Total Rated Lamp Lumens: 3413.6 lm

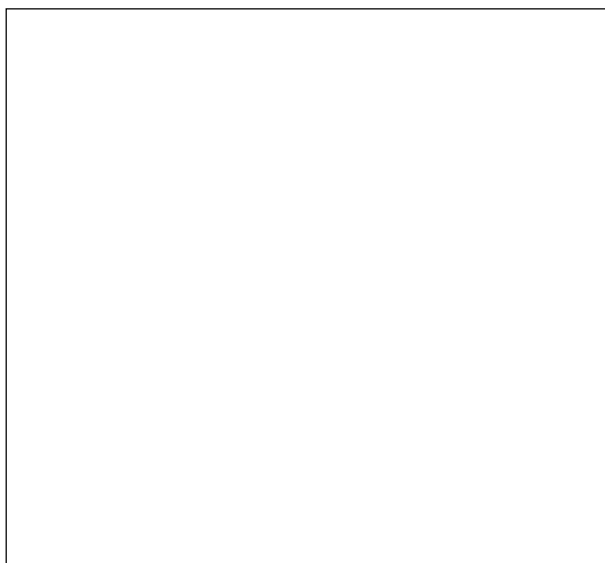
Efficiency: 100%

Upward Ratio: 0%

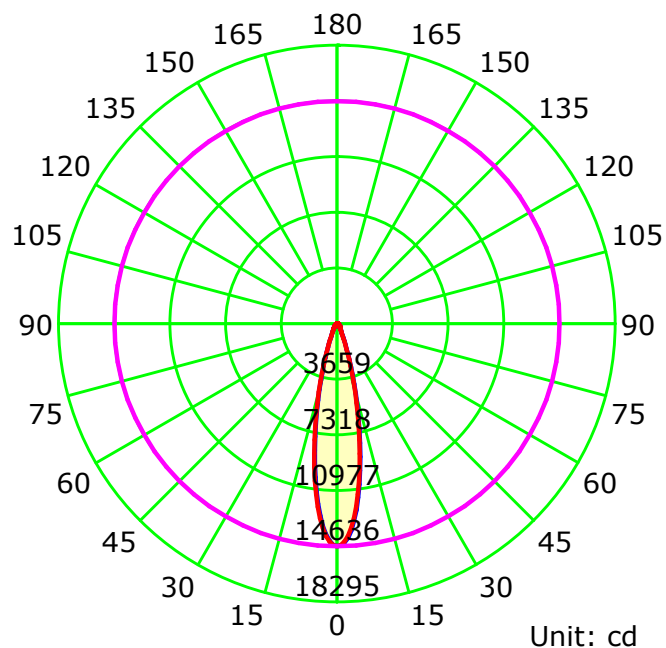
Central Intensity: 14635.59 cd

Pos of Max. Intensity: H0 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G0

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

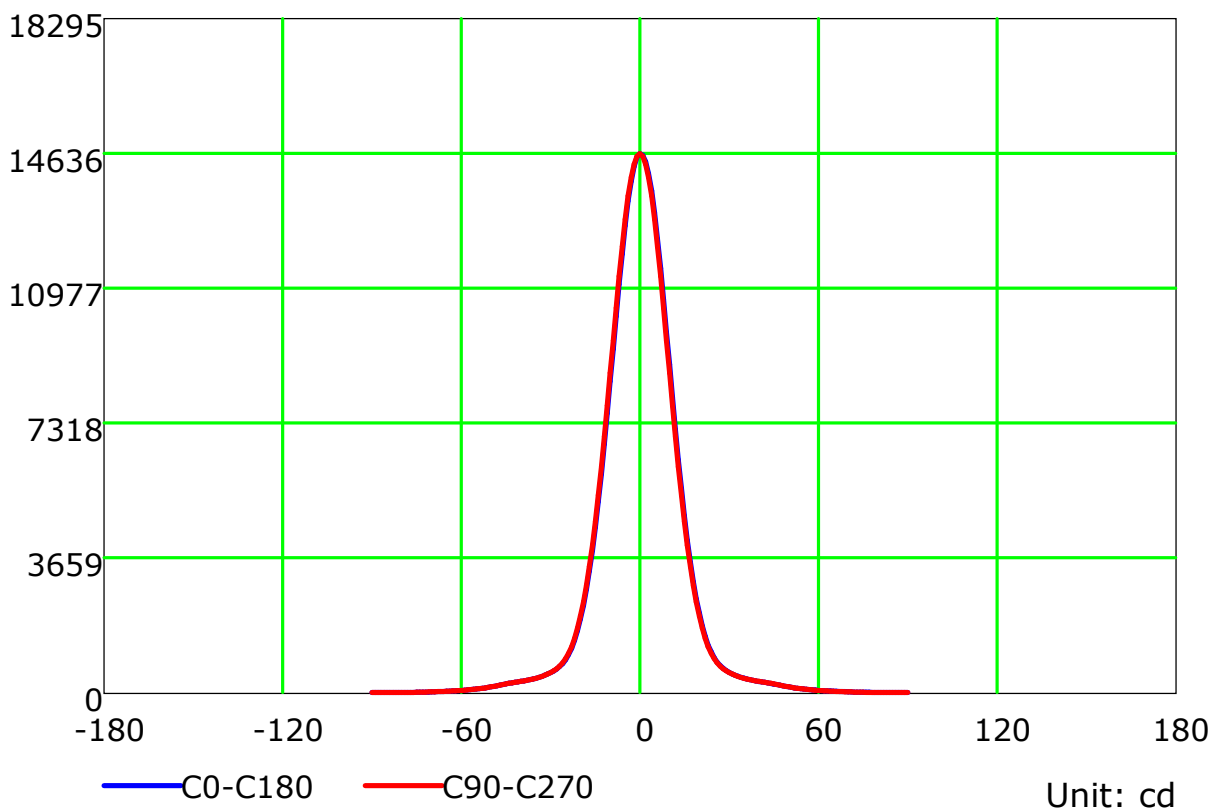
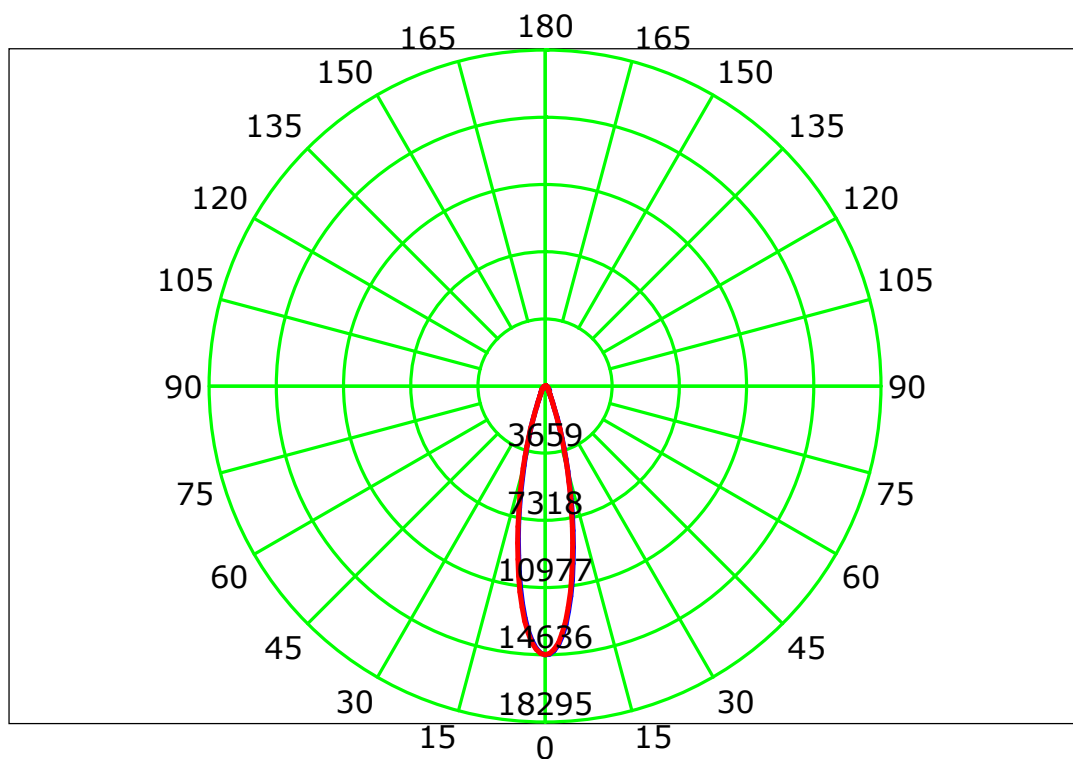
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

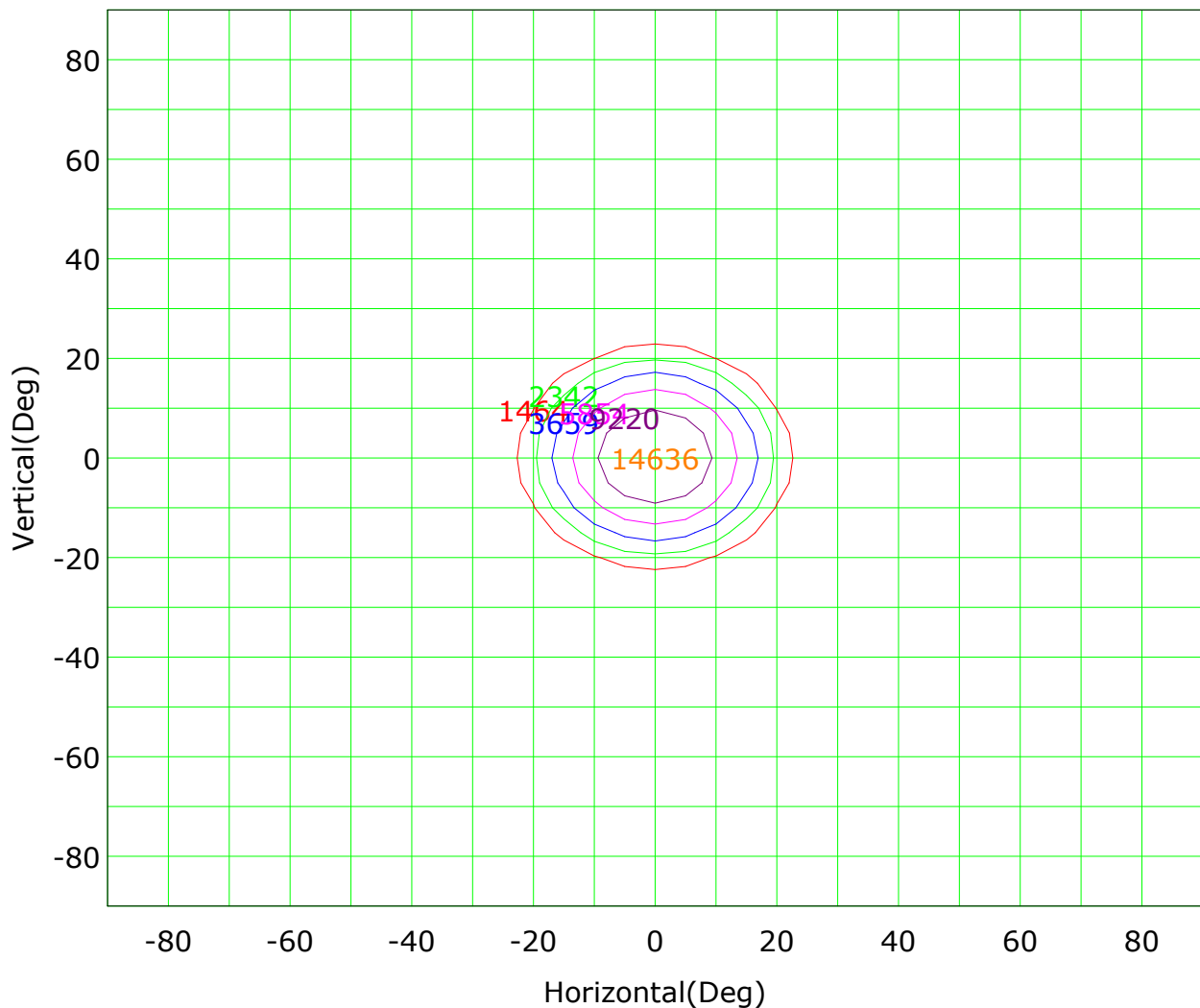
## Luminous Intensity Distribution Curve



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%): 14636 cd

( 10%): 1464 cd	( 16%): 2342 cd
( 25%): 3659 cd	( 40%): 5854 cd
( 63%): 9220 cd	(100%): 14636 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

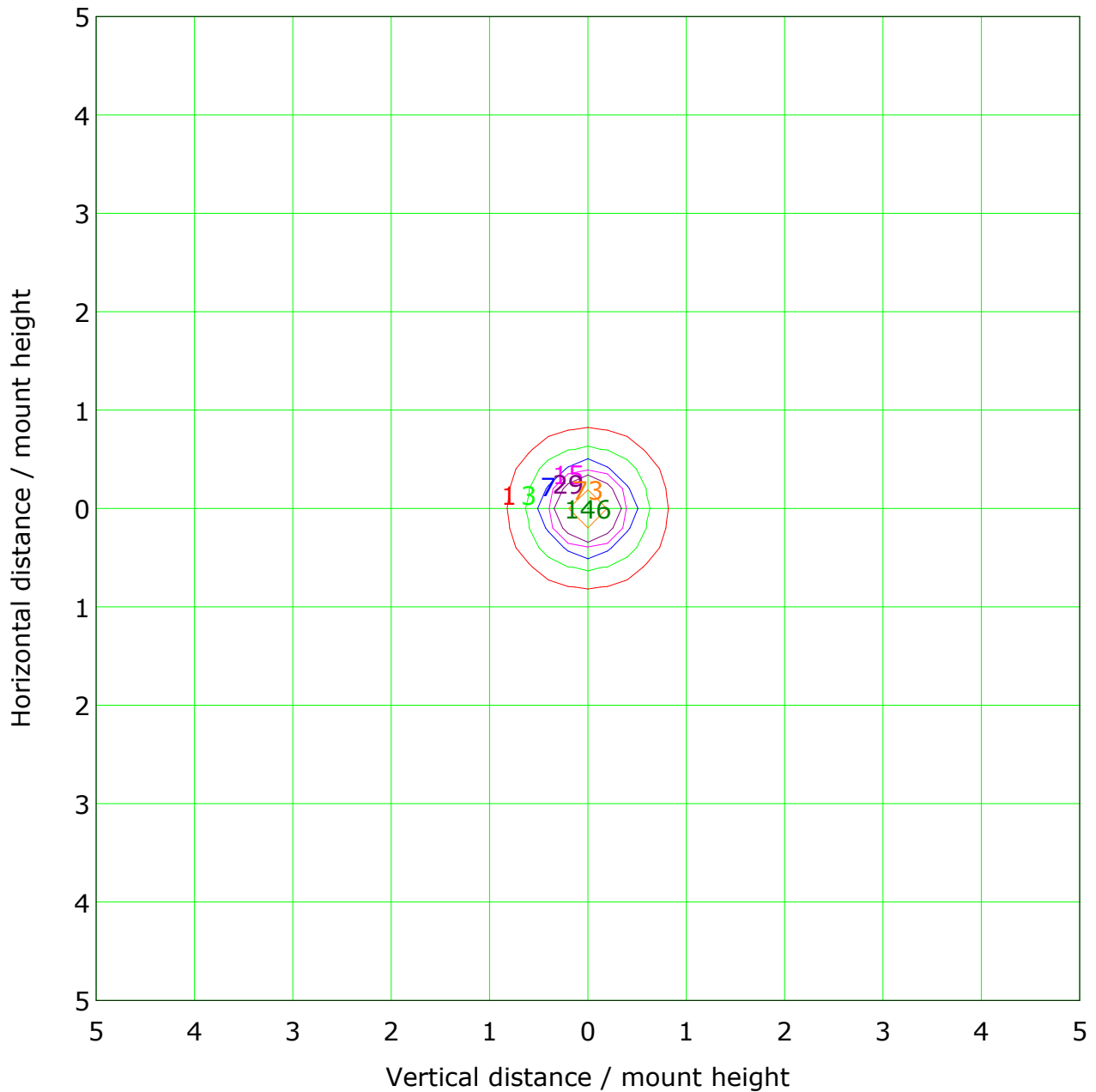
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot

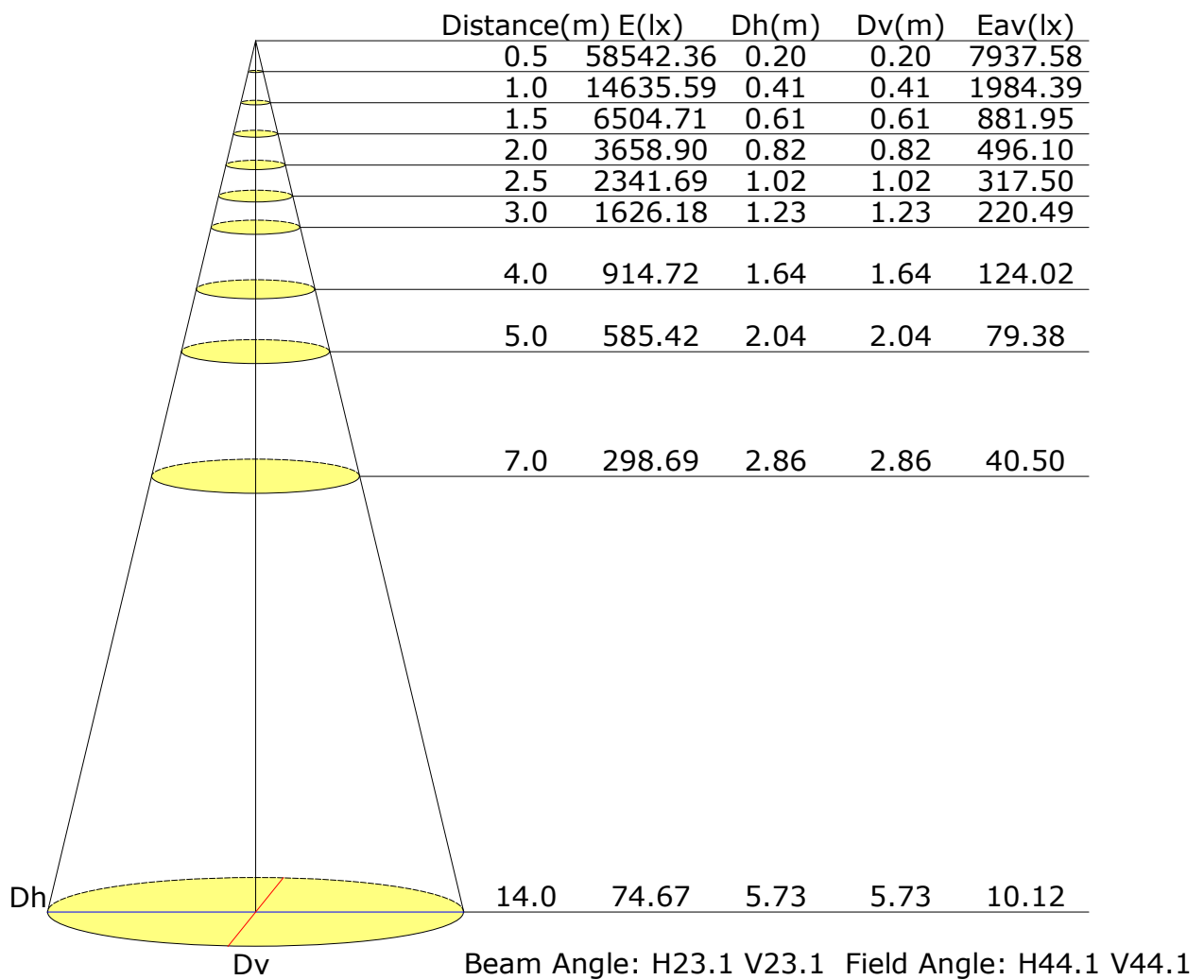


Mounting Height: 10m		Max Lux(100%): 146 lx	
( 1%):	1 lx	( 2%):	3 lx
( 5%):	7 lx	( 10%):	15 lx
( 20%):	29 lx	( 50%):	73 lx
(100%):	146 lx		

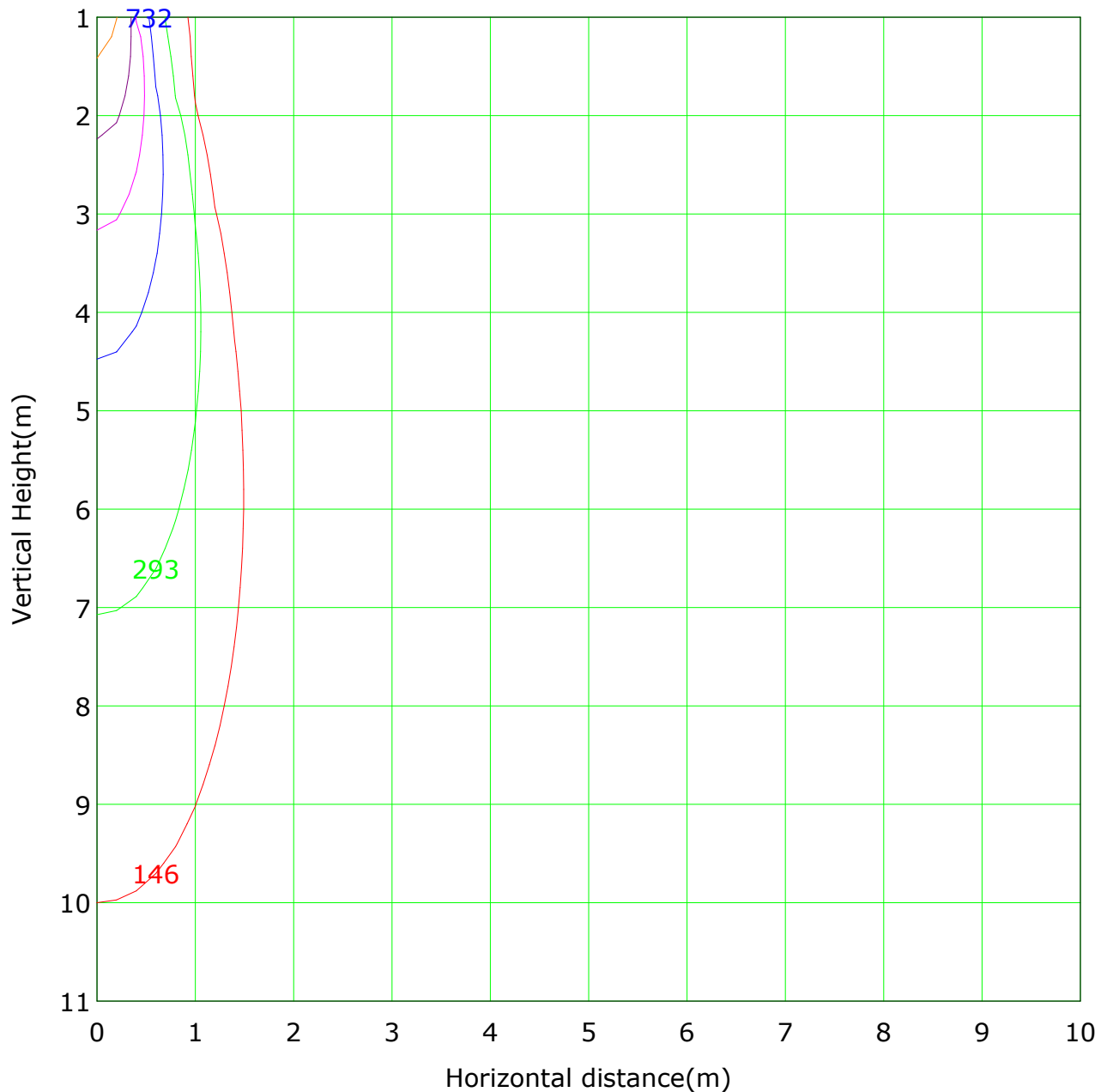
C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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



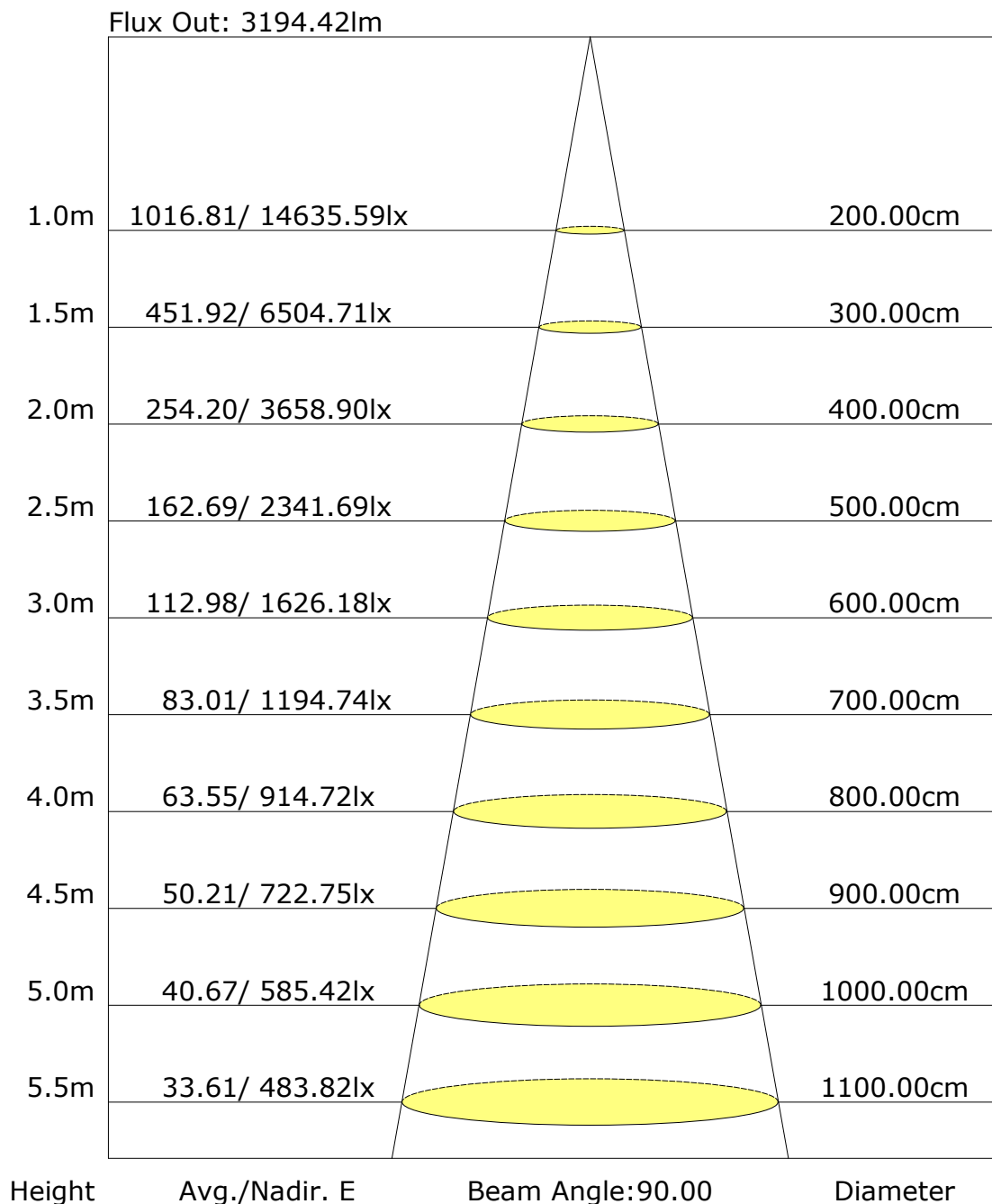
Lowest(m): 1m    Highest(m): 11    Max Lux: 14636

( 1%): 146 lx	( 2%): 293 lx
( 5%): 732 lx	( 10%): 1464 lx
( 20%): 2927 lx	( 50%): 7318 lx
(100%): 14636 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	14600.7	14.0	14.0	0.41	0.41
1.0-2.0	14456.4	41.5	55.5	1.22	1.62
2.0-3.0	14165.9	67.8	123.2	1.99	3.61
3.0-4.0	13734.0	91.9	215.2	2.69	6.30
4.0-5.0	13166.1	113.3	328.5	3.32	9.62
5.0-6.0	12480.5	131.2	459.6	3.84	13.46
6.0-7.0	11706.6	145.3	605.0	4.26	17.72
7.0-8.0	10871.0	155.6	760.6	4.56	22.28
8.0-9.0	9998.4	162.1	922.6	4.75	27.03
9.0-10.0	9116.1	165.0	1087.6	4.83	31.86
10.0-11.0	8235.6	164.6	1252.2	4.82	36.68
11.0-12.0	7369.8	161.1	1413.3	4.72	41.40
12.0-13.0	6536.1	155.1	1568.5	4.54	45.95
13.0-14.0	5743.6	147.0	1715.5	4.31	50.26
14.0-15.0	5003.4	137.4	1852.9	4.02	54.28
15.0-16.0	4324.0	126.7	1979.6	3.71	57.99
16.0-17.0	3709.7	115.5	2095.1	3.38	61.38
17.0-18.0	3164.3	104.3	2199.5	3.06	64.43
18.0-19.0	2686.2	93.5	2292.9	2.74	67.17
19.0-20.0	2269.8	83.1	2376.0	2.43	69.61
20.0-21.0	1913.3	73.5	2449.5	2.15	71.76
21.0-22.0	1612.2	64.8	2514.3	1.90	73.66
22.0-23.0	1360.7	57.1	2571.4	1.67	75.33
23.0-24.0	1156.6	50.6	2622.0	1.48	76.81
24.0-25.0	994.8	45.2	2667.2	1.33	78.14
25.0-26.0	866.7	40.9	2708.1	1.20	79.33
26.0-27.0	765.4	37.5	2745.6	1.10	80.43
27.0-28.0	685.3	34.7	2780.3	1.02	81.45
28.0-29.0	622.4	32.6	2812.9	0.95	82.40
29.0-30.0	571.0	30.8	2843.7	0.90	83.31
30.0-31.0	527.3	29.3	2873.0	0.86	84.17
31.0-32.0	490.2	28.1	2901.1	0.82	84.99
32.0-33.0	458.1	27.0	2928.1	0.79	85.78
33.0-34.0	429.2	26.0	2954.1	0.76	86.54
34.0-35.0	403.0	25.0	2979.1	0.73	87.27
35.0-36.0	379.9	24.2	3003.3	0.71	87.98

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	359.0	23.4	3026.7	0.69	88.67
37.0-38.0	340.6	22.7	3049.5	0.67	89.33
38.0-39.0	325.1	22.2	3071.7	0.65	89.98
39.0-40.0	311.7	21.7	3093.4	0.64	90.62
40.0-41.0	299.5	21.3	3114.7	0.62	91.25
41.0-42.0	287.7	20.9	3135.7	0.61	91.86
42.0-43.0	274.6	20.3	3156.0	0.60	92.45
43.0-44.0	259.9	19.6	3175.6	0.57	93.03
44.0-45.0	244.7	18.8	3194.4	0.55	93.58
45.0-46.0	228.1	17.8	3212.3	0.52	94.10
46.0-47.0	212.6	16.9	3229.2	0.50	94.60
47.0-48.0	197.3	16.0	3245.1	0.47	95.07
48.0-49.0	180.4	14.8	3259.9	0.43	95.50
49.0-50.0	165.2	13.8	3273.7	0.40	95.90
50.0-51.0	150.5	12.7	3286.5	0.37	96.28
51.0-52.0	135.9	11.7	3298.1	0.34	96.62
52.0-53.0	123.7	10.8	3308.9	0.32	96.93
53.0-54.0	113.4	10.0	3318.9	0.29	97.23
54.0-55.0	103.2	9.2	3328.1	0.27	97.50
55.0-56.0	93.5	8.4	3336.5	0.25	97.74
56.0-57.0	85.4	7.8	3344.3	0.23	97.97
57.0-58.0	78.5	7.3	3351.6	0.21	98.18
58.0-59.0	71.1	6.6	3358.3	0.19	98.38
59.0-60.0	62.3	5.9	3364.1	0.17	98.55
60.0-61.0	56.1	5.4	3369.5	0.16	98.71
61.0-62.0	51.7	5.0	3374.5	0.15	98.85
62.0-63.0	47.7	4.6	3379.1	0.14	98.99
63.0-64.0	44.3	4.3	3383.5	0.13	99.12
64.0-65.0	40.5	4.0	3387.5	0.12	99.24
65.0-66.0	36.5	3.6	3391.1	0.11	99.34
66.0-67.0	32.4	3.3	3394.4	0.10	99.44
67.0-68.0	29.3	3.0	3397.3	0.09	99.52
68.0-69.0	26.2	2.7	3400.0	0.08	99.60
69.0-70.0	22.4	2.3	3402.3	0.07	99.67
70.0-71.0	19.0	2.0	3404.3	0.06	99.73
71.0-72.0	16.5	1.7	3406.0	0.05	99.78

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	14635.6	14635.6								
G1.0	14590.7	14540.8								
G2.0	14412.4	14281.5								
G3.0	14088.3	13881.4								
G4.0	13620.8	13345.3								
G5.0	13019.9	12678.4								
G6.0	12310.6	11912.9								
G7.0	11519.0	11083.9								
G8.0	10667.5	10213.8								
G9.0	9783.7	9328.6								
G10.0	8901.0	8451.0								
G11.0	8007.2	7583.3								
G12.0	7143.3	6745.6								
G13.0	6319.2	5936.5								
G14.0	5536.3	5182.3								
G15.0	4804.6	4490.4								
G16.0	4140.1	3860.9								
G17.0	3536.7	3301.1								
G18.0	3013.1	2806.2								
G19.0	2553.1	2372.4								
G20.0	2156.7	1997.1								
G21.0	1816.4	1683.0								
G22.0	1532.1	1417.4								
G23.0	1292.8	1200.5								
G24.0	1104.5	1028.5								
G25.0	953.7	892.6								
G26.0	832.8	787.9								
G27.0	736.8	704.3								
G28.0	662.0	638.3								
G29.0	602.1	587.2								
G30.0	553.5	541.0								
G31.0	509.9	504.9								
G32.0	476.2	470.0								
G33.0	445.0	441.3								
G34.0	416.4	413.9								
G35.0	391.5	390.2								
G36.0	369.0	369.0								

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	349.1	349.1								
G38.0	331.6	332.9								
G39.0	316.6	319.1								
G40.0	304.2	306.7								
G41.0	291.7	295.5								
G42.0	279.3	284.2								
G43.0	265.5	269.3								
G44.0	250.6	254.3								
G45.0	234.4	239.4								
G46.0	218.2	220.7								
G47.0	204.4	206.9								
G48.0	188.2	189.5								
G49.0	173.3	170.8								
G50.0	158.3	158.3								
G51.0	143.4	142.1								
G52.0	129.6	128.4								
G53.0	118.4	118.4								
G54.0	108.5	108.5								
G55.0	98.5	97.2								
G56.0	89.8	88.5								
G57.0	82.3	81.0								
G58.0	76.1	74.8								
G59.0	71.1	62.3								
G60.0	58.6	57.3								
G61.0	54.8	53.6								
G62.0	49.9	48.6								
G63.0	47.4	44.9								
G64.0	43.6	41.1								
G65.0	39.9	37.4								
G66.0	36.2	32.4								
G67.0	31.2	29.9								
G68.0	28.7	27.4								
G69.0	27.4	21.2								
G70.0	22.4	18.7								
G71.0	18.7	16.2								
G72.0	16.2	15.0								
G73.0	11.2	10.0								

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: