

Report No.:52.12516 SPECTRUM Downlight Test Time: 2024-07-25 18:04

## Luminaire Property

Luminaire Category:

Luminaire Description: 52.12516

Current: 0.000 A

Power Factor: 0.000

Voltage: 218.1 V

Power: 0.00 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 2390.6 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H53.3

Vertical Diffuse Angle(50%): V53.3

Luminaire Efficacy Rating (LER): 2391

Max. Intensity: 3344.65 cd

Total Rated Lamp Lumens: 2390.6 lm

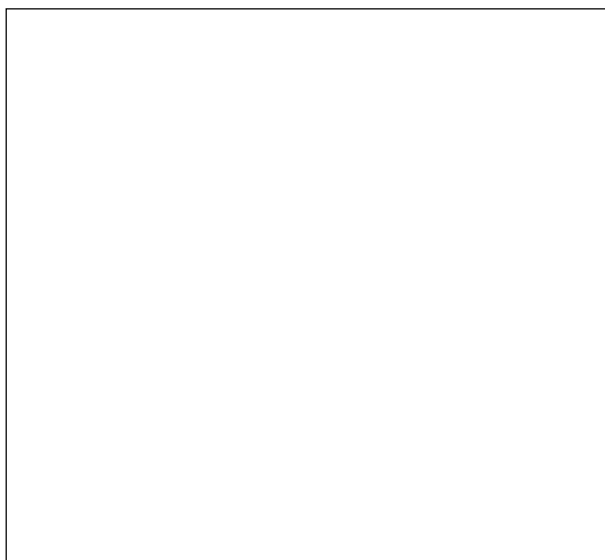
Efficiency: 100%

Upward Ratio: 0%

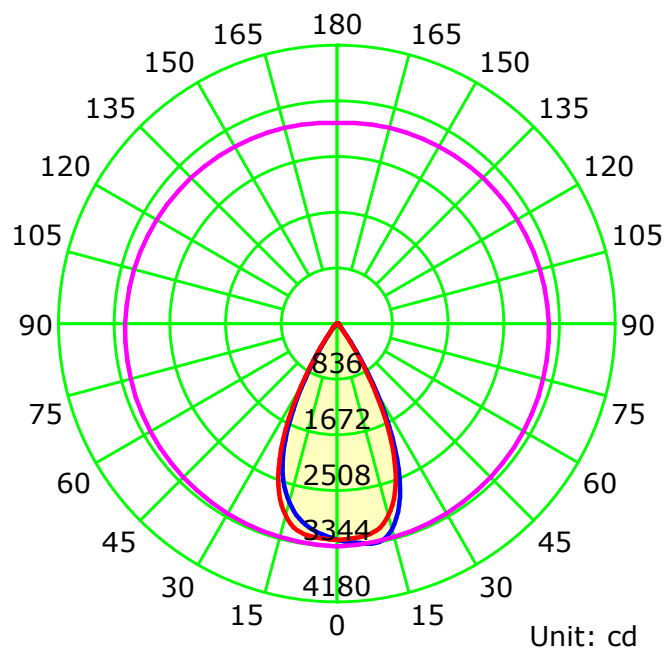
Central Intensity: 3245.33 cd

Pos of Max. Intensity: H0 V10

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G10

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

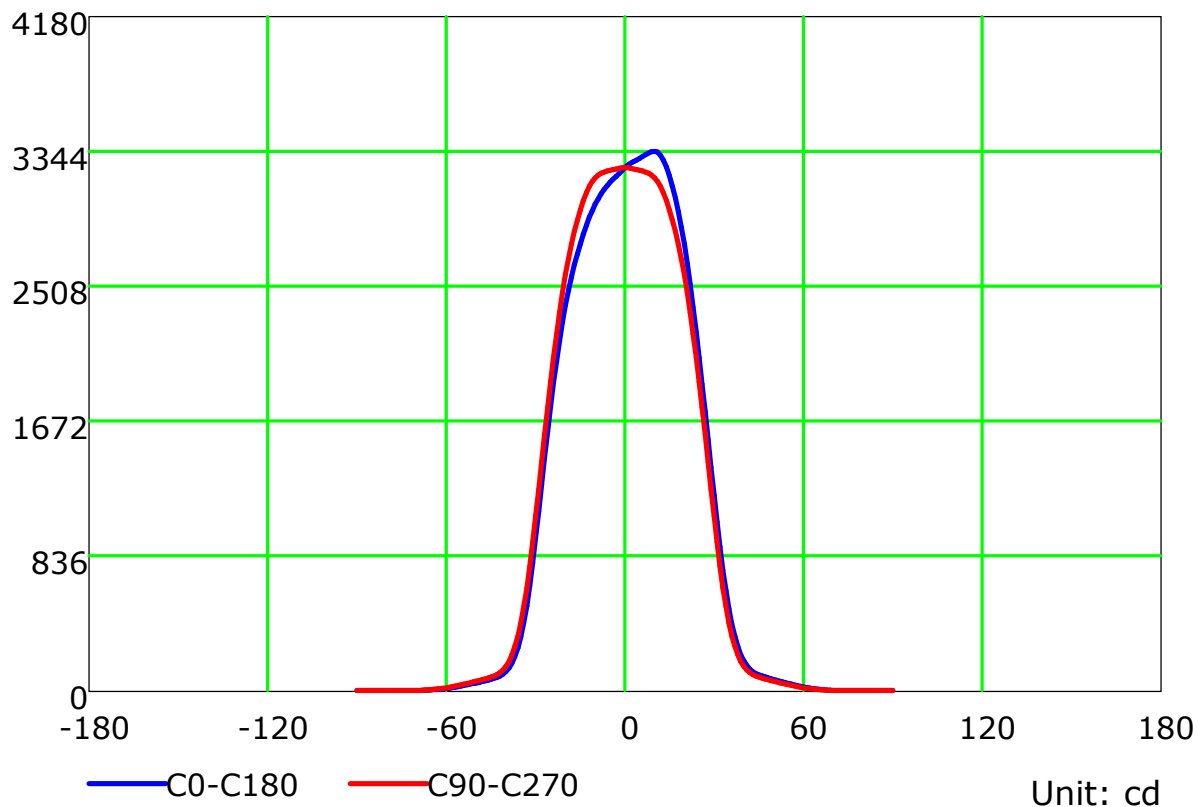
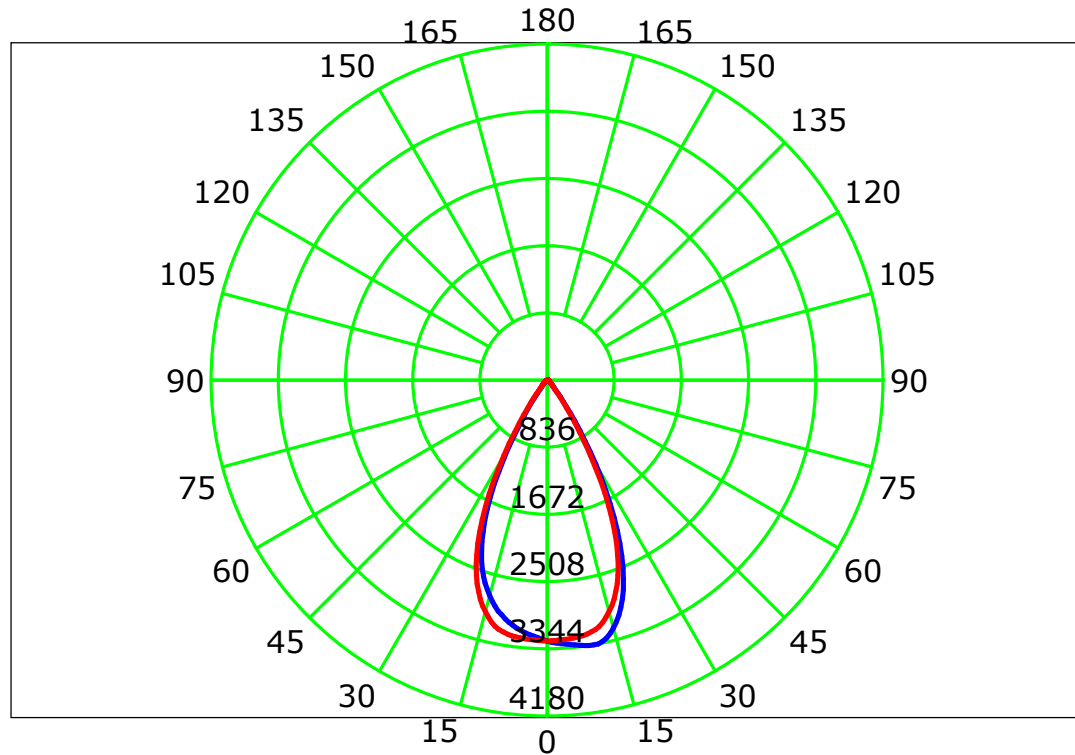
Test Device: CHL-6E

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

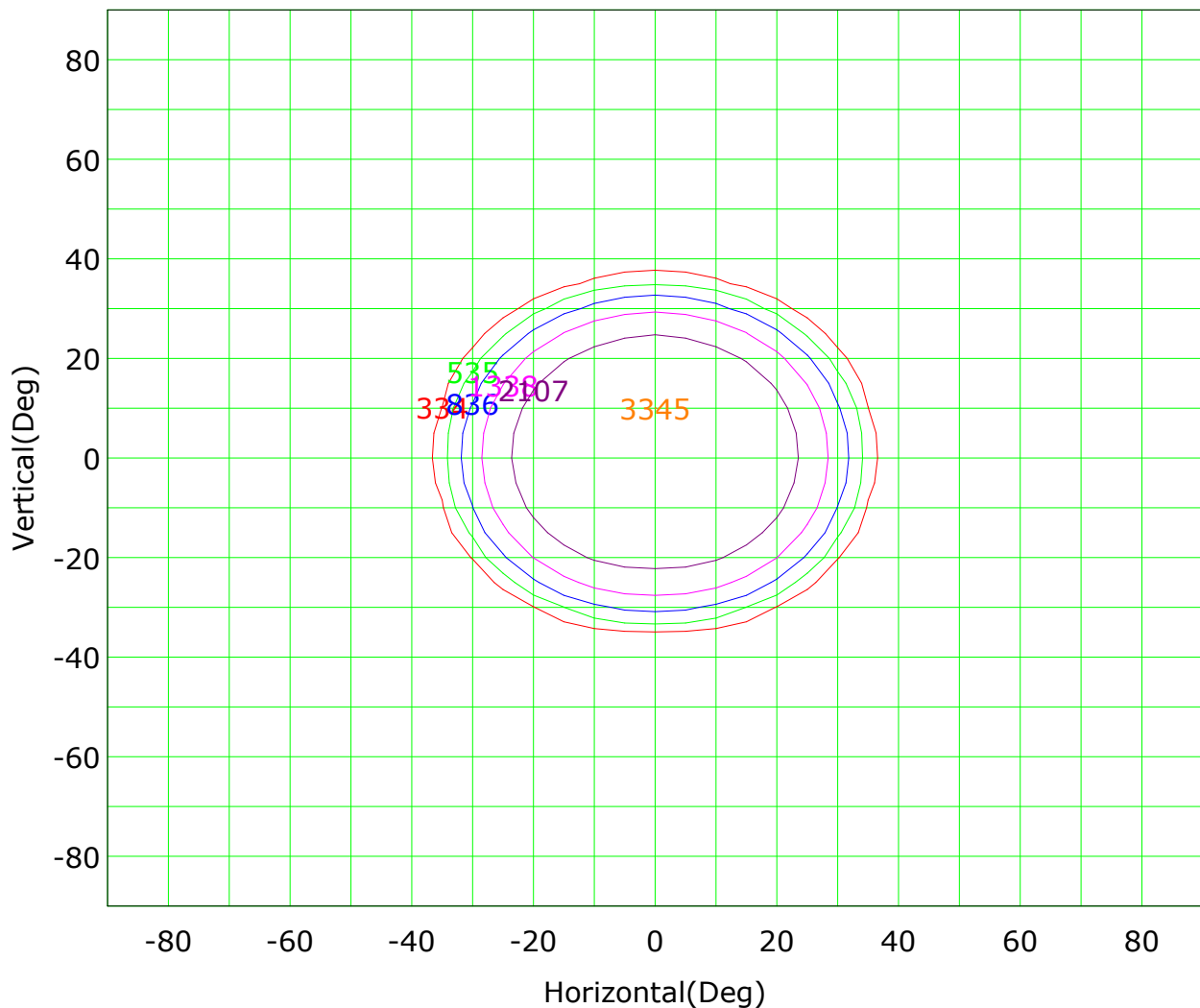
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## Isocandela (rectangle)



Imax (100%): 3345 cd

( 10%): 334 cd	( 16%): 535 cd
( 25%): 836 cd	( 40%): 1338 cd
( 63%): 2107 cd	(100%): 3345 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

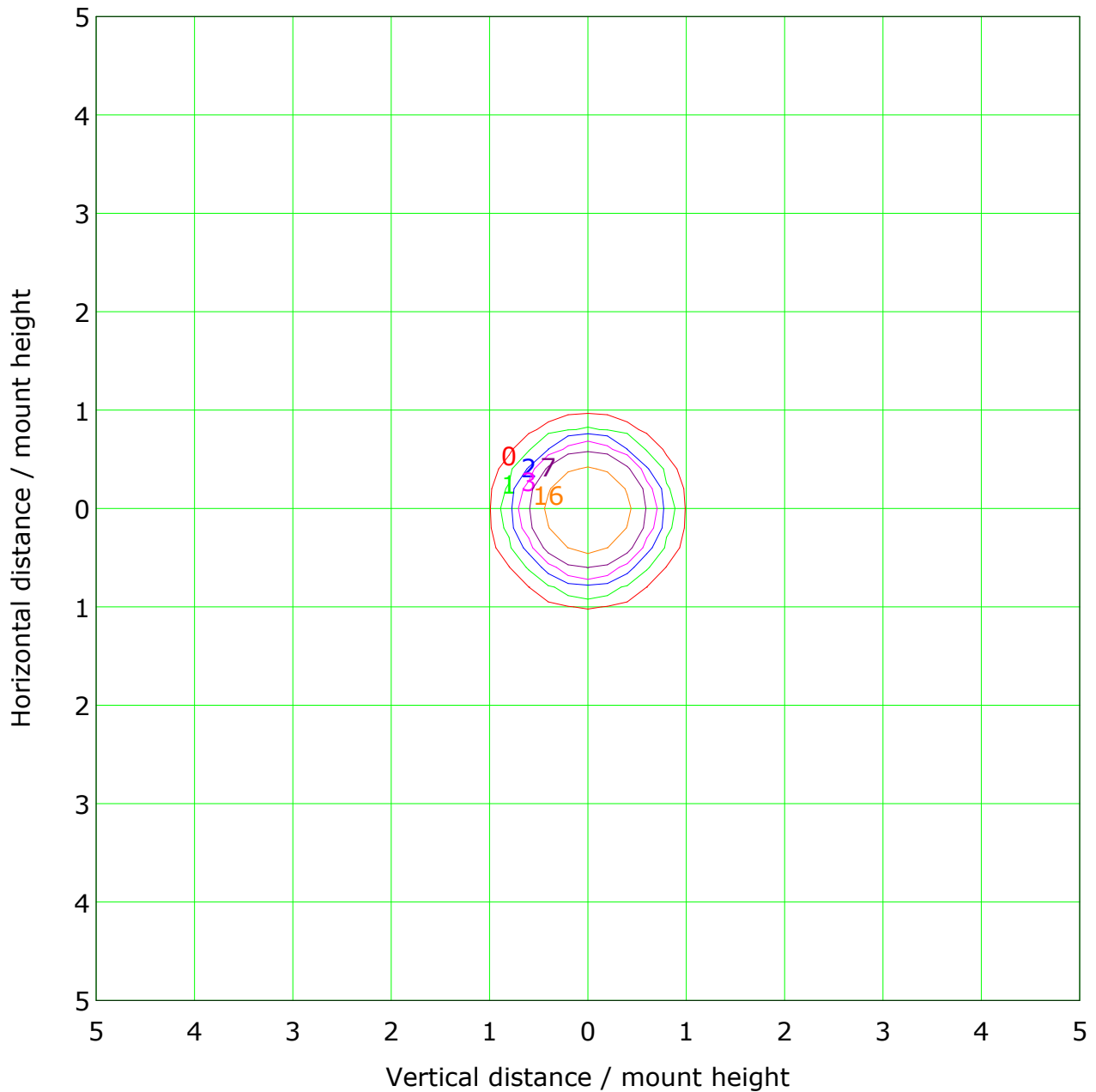
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot

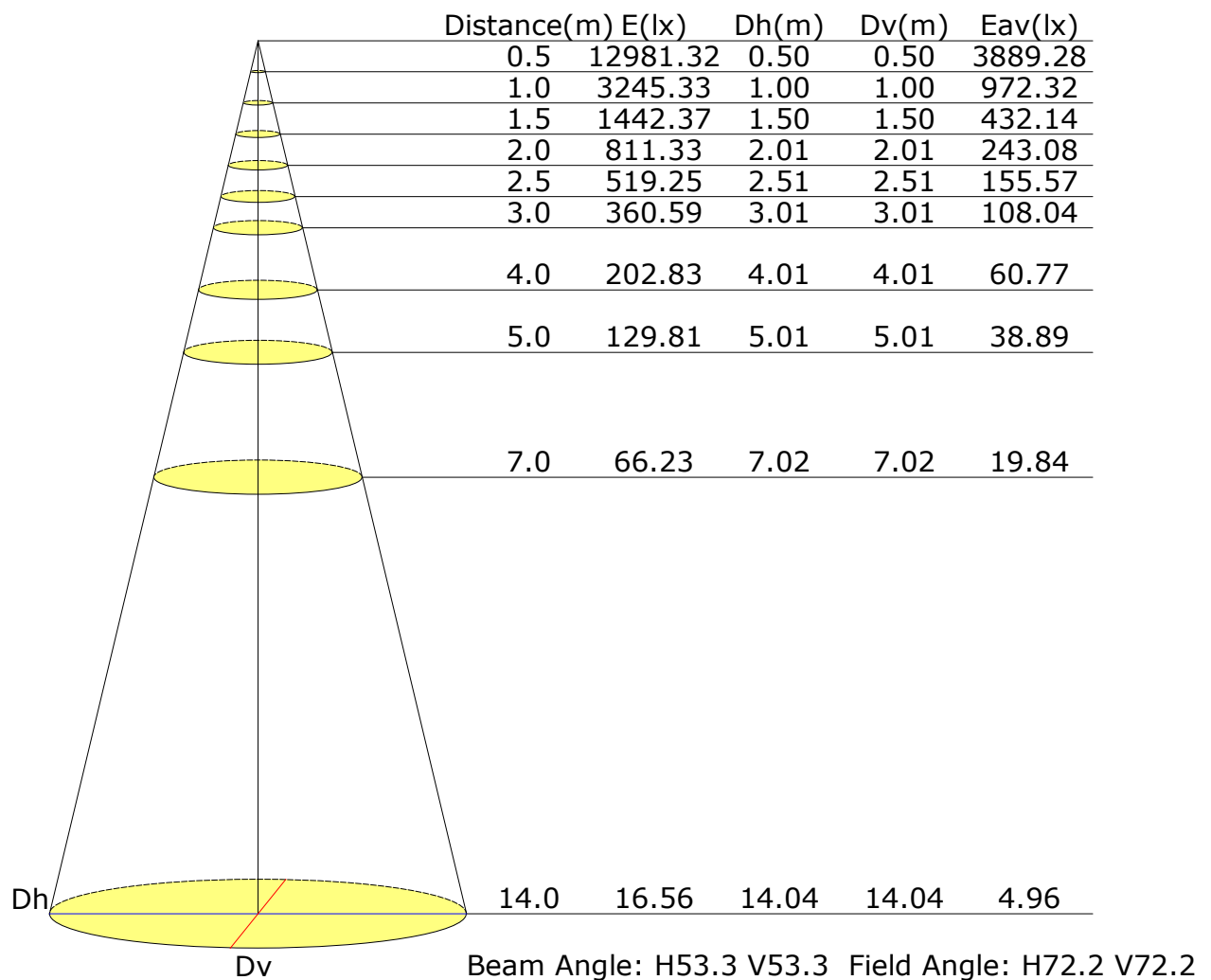


Mounting Height: 10m		Max Lux(100%): 33 lx	
( 1%):	0 lx	( 2%):	1 lx
( 5%):	2 lx	( 10%):	3 lx
( 20%):	7 lx	( 50%):	16 lx
(100%):	33 lx		

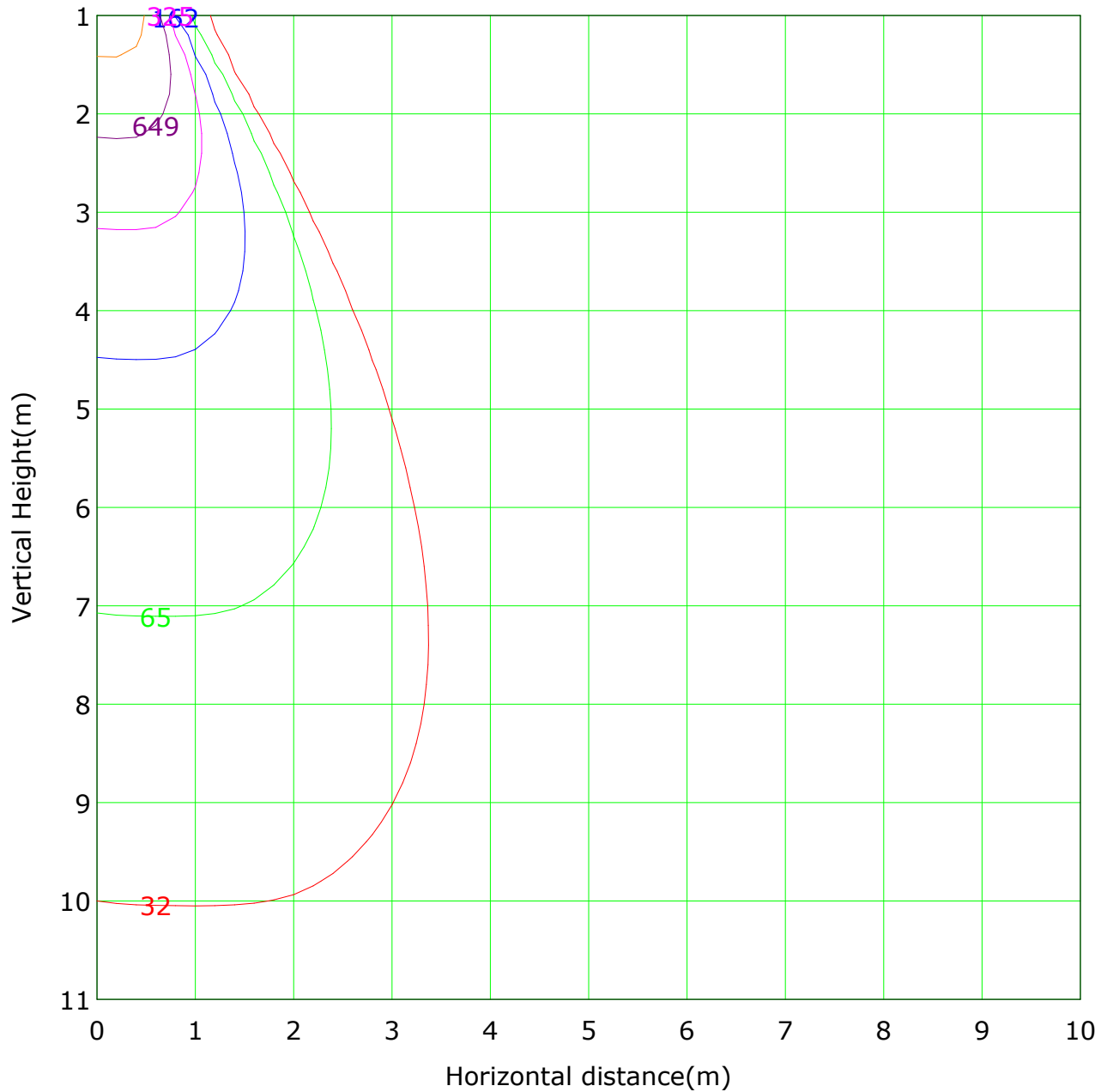
C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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

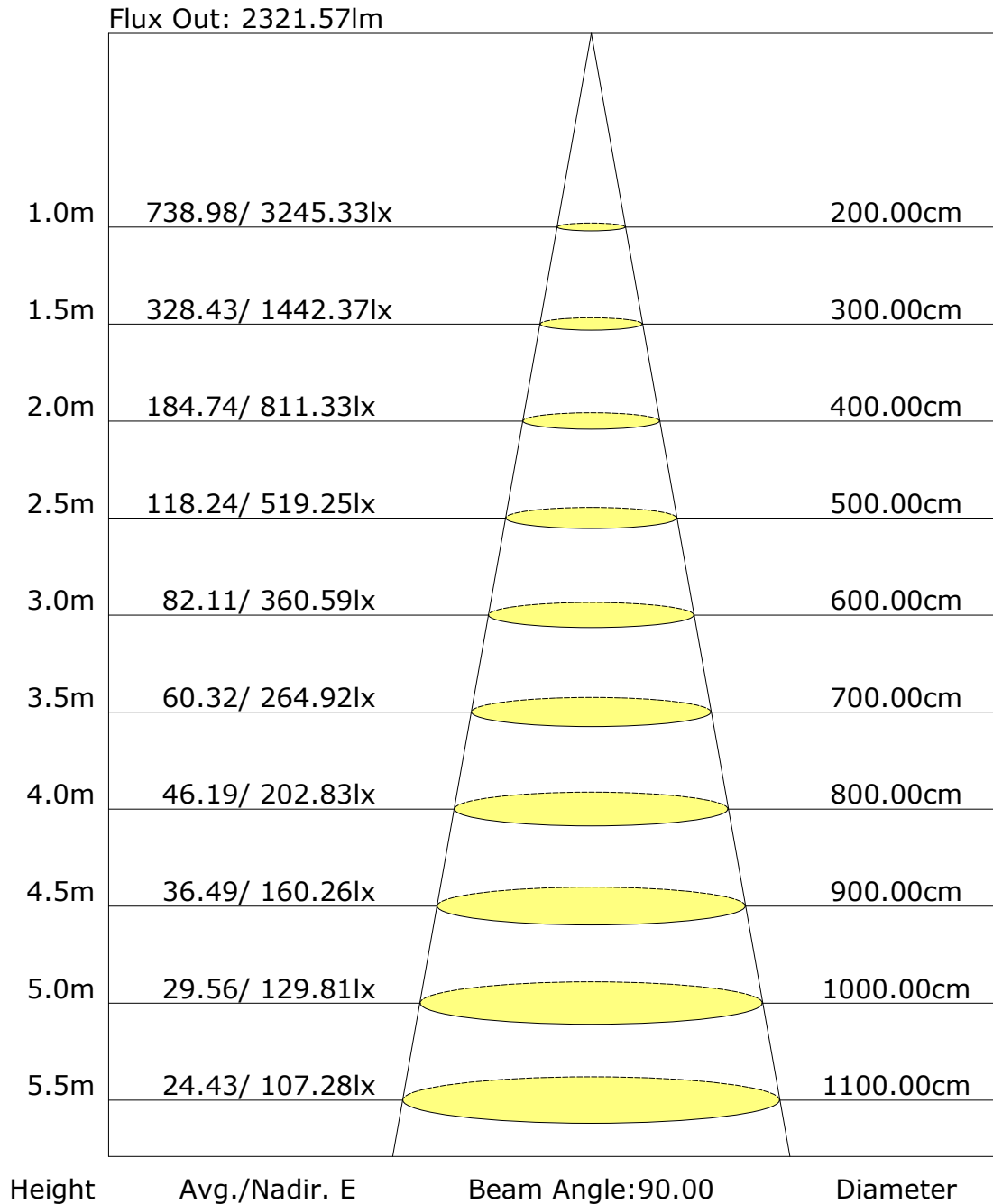


Lowest(m): 1m    Highest(m): 11    Max Lux: 3245	
( 1%): 32 lx	( 2%): 65 lx
( 5%): 162 lx	( 10%): 325 lx
( 20%): 649 lx	( 50%): 1623 lx
(100%): 3245 lx	

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	3244.8	3.1	3.1	0.13	0.13
1.0-2.0	3242.7	9.3	12.4	0.39	0.52
2.0-3.0	3238.8	15.5	27.9	0.65	1.17
3.0-4.0	3234.6	21.7	49.6	0.91	2.07
4.0-5.0	3230.9	27.8	77.4	1.16	3.24
5.0-6.0	3226.4	33.9	111.3	1.42	4.65
6.0-7.0	3220.5	40.0	151.2	1.67	6.33
7.0-8.0	3213.5	46.0	197.2	1.92	8.25
8.0-9.0	3203.8	51.9	249.2	2.17	10.42
9.0-10.0	3189.4	57.7	306.9	2.41	12.84
10.0-11.0	3170.2	63.4	370.3	2.65	15.49
11.0-12.0	3144.8	68.8	439.0	2.88	18.36
12.0-13.0	3109.7	73.8	512.8	3.09	21.45
13.0-14.0	3064.7	78.5	591.3	3.28	24.73
14.0-15.0	3011.6	82.7	674.0	3.46	28.19
15.0-16.0	2951.9	86.5	760.5	3.62	31.81
16.0-17.0	2884.9	89.9	850.3	3.76	35.57
17.0-18.0	2809.1	92.6	943.0	3.87	39.44
18.0-19.0	2724.4	94.8	1037.8	3.97	43.41
19.0-20.0	2630.3	96.3	1134.0	4.03	47.44
20.0-21.0	2525.1	97.0	1231.0	4.06	51.49
21.0-22.0	2407.7	96.8	1327.8	4.05	55.54
22.0-23.0	2279.1	95.6	1423.4	4.00	59.54
23.0-24.0	2140.5	93.6	1517.0	3.92	63.46
24.0-25.0	1992.3	90.6	1607.6	3.79	67.25
25.0-26.0	1835.7	86.7	1694.3	3.63	70.87
26.0-27.0	1672.5	81.8	1776.1	3.42	74.30
27.0-28.0	1504.4	76.2	1852.3	3.19	77.48
28.0-29.0	1333.5	69.8	1922.1	2.92	80.40
29.0-30.0	1164.3	62.9	1984.9	2.63	83.03
30.0-31.0	1001.1	55.7	2040.7	2.33	85.36
31.0-32.0	846.9	48.5	2089.2	2.03	87.39
32.0-33.0	704.9	41.5	2130.7	1.74	89.13
33.0-34.0	579.2	35.1	2165.8	1.47	90.60
34.0-35.0	470.9	29.2	2195.0	1.22	91.82
35.0-36.0	380.0	24.2	2219.2	1.01	92.83

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	306.4	20.0	2239.2	0.84	93.67
37.0-38.0	247.5	16.5	2255.7	0.69	94.36
38.0-39.0	201.0	13.7	2269.4	0.57	94.93
39.0-40.0	165.7	11.6	2281.0	0.48	95.42
40.0-41.0	139.7	9.9	2291.0	0.42	95.83
41.0-42.0	120.6	8.8	2299.7	0.37	96.20
42.0-43.0	106.5	7.9	2307.6	0.33	96.53
43.0-44.0	95.8	7.2	2314.8	0.30	96.83
44.0-45.0	87.5	6.7	2321.6	0.28	97.11
45.0-46.0	80.9	6.3	2327.9	0.26	97.38
46.0-47.0	75.3	6.0	2333.9	0.25	97.63
47.0-48.0	70.1	5.7	2339.6	0.24	97.87
48.0-49.0	65.3	5.4	2344.9	0.22	98.09
49.0-50.0	60.5	5.0	2350.0	0.21	98.30
50.0-51.0	55.9	4.7	2354.7	0.20	98.50
51.0-52.0	51.4	4.4	2359.1	0.18	98.68
52.0-53.0	47.0	4.1	2363.2	0.17	98.85
53.0-54.0	42.8	3.8	2367.0	0.16	99.01
54.0-55.0	38.6	3.4	2370.4	0.14	99.16
55.0-56.0	34.4	3.1	2373.5	0.13	99.29
56.0-57.0	30.4	2.8	2376.3	0.12	99.40
57.0-58.0	26.4	2.4	2378.7	0.10	99.51
58.0-59.0	22.7	2.1	2380.9	0.09	99.59
59.0-60.0	19.3	1.8	2382.7	0.08	99.67
60.0-61.0	16.4	1.6	2384.3	0.07	99.74
61.0-62.0	14.0	1.3	2385.6	0.06	99.79
62.0-63.0	11.8	1.2	2386.8	0.05	99.84
63.0-64.0	9.8	1.0	2387.7	0.04	99.88
64.0-65.0	7.9	0.8	2388.5	0.03	99.91
65.0-66.0	6.1	0.6	2389.1	0.03	99.94
66.0-67.0	4.7	0.5	2389.6	0.02	99.96
67.0-68.0	3.4	0.3	2389.9	0.01	99.97
68.0-69.0	2.4	0.2	2390.2	0.01	99.98
69.0-70.0	1.6	0.2	2390.3	0.01	99.99
70.0-71.0	1.0	0.1	2390.4	0.00	99.99
71.0-72.0	0.6	0.1	2390.5	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	3245.3	3245.3								
G1.0	3261.0	3227.4								
G2.0	3273.0	3209.2								
G3.0	3282.7	3190.3								
G4.0	3291.9	3173.6								
G5.0	3302.7	3155.3								
G6.0	3313.4	3134.1								
G7.0	3324.9	3109.8								
G8.0	3336.1	3083.3								
G9.0	3343.3	3052.4								
G10.0	3344.6	3017.1								
G11.0	3342.4	2976.6								
G12.0	3321.3	2938.8								
G13.0	3291.8	2886.9								
G14.0	3248.7	2831.4								
G15.0	3194.1	2772.2								
G16.0	3130.7	2710.6								
G17.0	3056.0	2642.4								
G18.0	2972.6	2565.5								
G19.0	2876.4	2483.1								
G20.0	2771.5	2390.2								
G21.0	2650.9	2287.7								
G22.0	2521.6	2170.8								
G23.0	2378.0	2045.8								
G24.0	2225.6	1912.5								
G25.0	2065.9	1765.0								
G26.0	1902.3	1609.4								
G27.0	1731.5	1446.9								
G28.0	1559.3	1279.7								
G29.0	1383.1	1112.0								
G30.0	1212.8	949.3								
G31.0	1048.1	794.3								
G32.0	892.3	652.9								
G33.0	747.2	527.3								
G34.0	621.0	421.4								
G35.0	507.3	334.0								
G36.0	412.8	265.8								

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	335.5	211.7								
G38.0	272.8	170.0								
G39.0	222.4	139.0								
G40.0	184.2	117.2								
G41.0	155.6	101.8								
G42.0	134.4	90.6								
G43.0	118.6	82.3								
G44.0	106.9	75.5								
G45.0	98.2	69.5								
G46.0	91.7	64.3								
G47.0	85.7	59.6								
G48.0	79.7	55.6								
G49.0	74.2	51.5								
G50.0	68.9	47.4								
G51.0	63.6	43.7								
G52.0	58.6	39.7								
G53.0	53.6	36.1								
G54.0	48.8	32.5								
G55.0	44.3	28.8								
G56.0	39.7	25.0								
G57.0	35.1	21.6								
G58.0	30.5	18.4								
G59.0	26.2	15.8								
G60.0	21.9	13.5								
G61.0	18.5	11.8								
G62.0	15.9	9.8								
G63.0	13.9	7.7								
G64.0	11.7	6.0								
G65.0	9.3	4.5								
G66.0	7.3	3.2								
G67.0	5.7	2.5								
G68.0	4.0	1.6								
G69.0	2.9	1.0								
G70.0	1.9	0.6								
G71.0	1.2	0.1								
G72.0	0.9	0.1								
G73.0	0.4	0.1								

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: