

Report No.:

Test Time: 2024-08-28 17:13

## Luminaire Property

Luminaire Category:

Luminaire Description: 51.04522 38D

Current: 0.174 A

Power Factor: 0.980

Voltage: 221.0 V

Power: 37.80 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 3385.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H34.8

Vertical Diffuse Angle(50%): V34.8

Luminaire Efficacy Rating (LER): 90

Max. Intensity: 8591.87 cd

Total Rated Lamp Lumens: 3385.5 lm

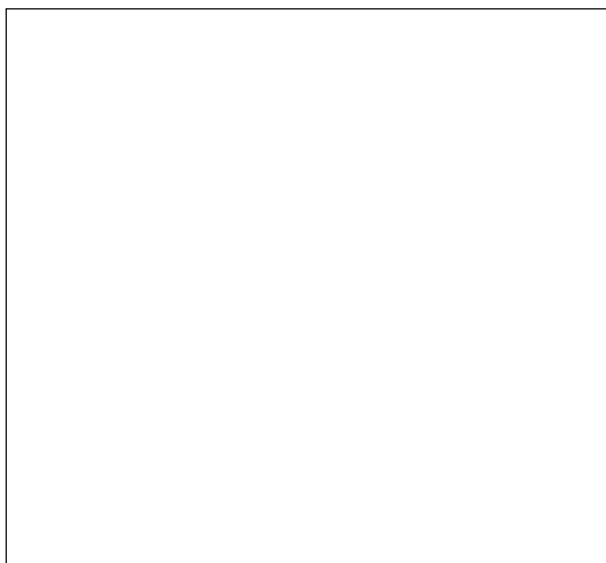
Efficiency: 100%

Upward Ratio: 0%

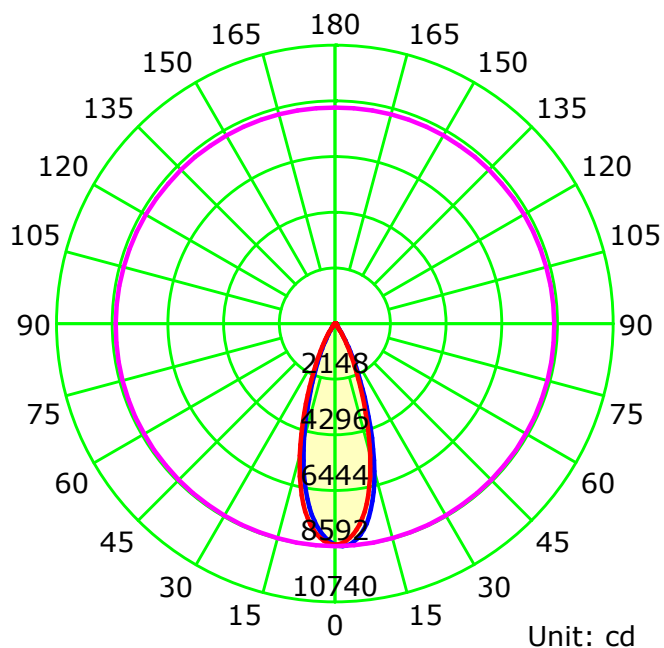
Central Intensity: 8525.79 cd

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

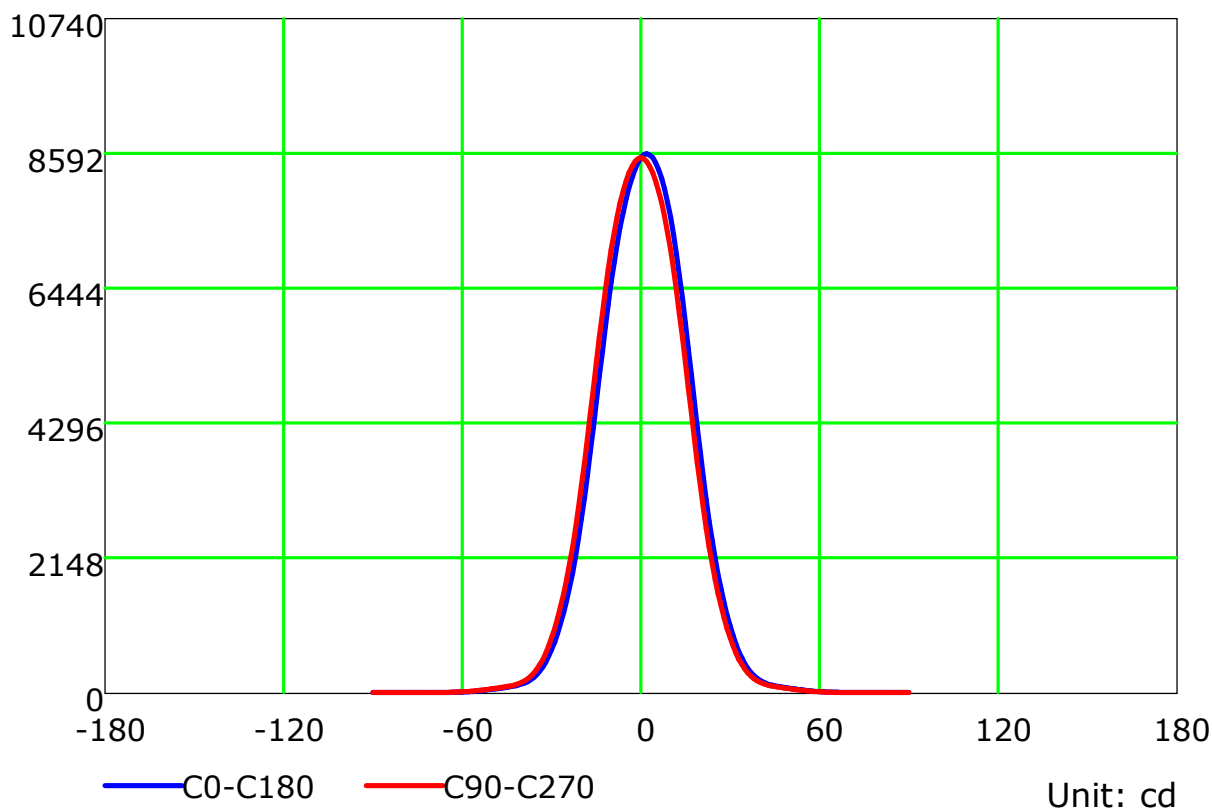
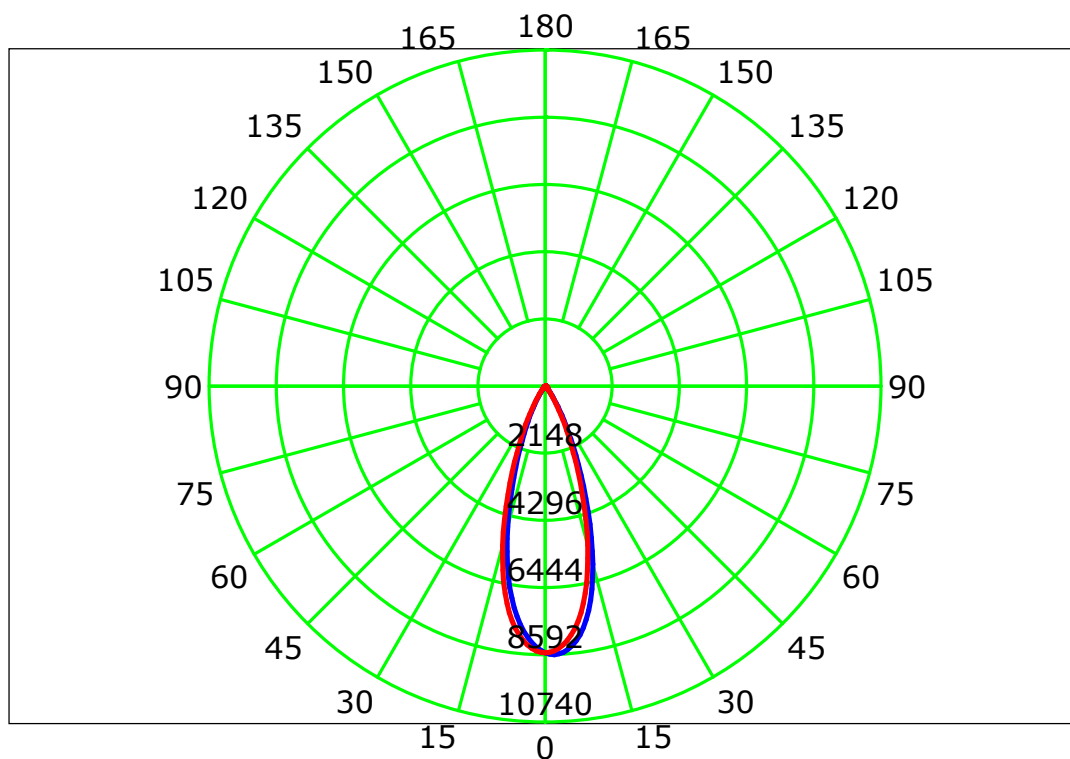
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

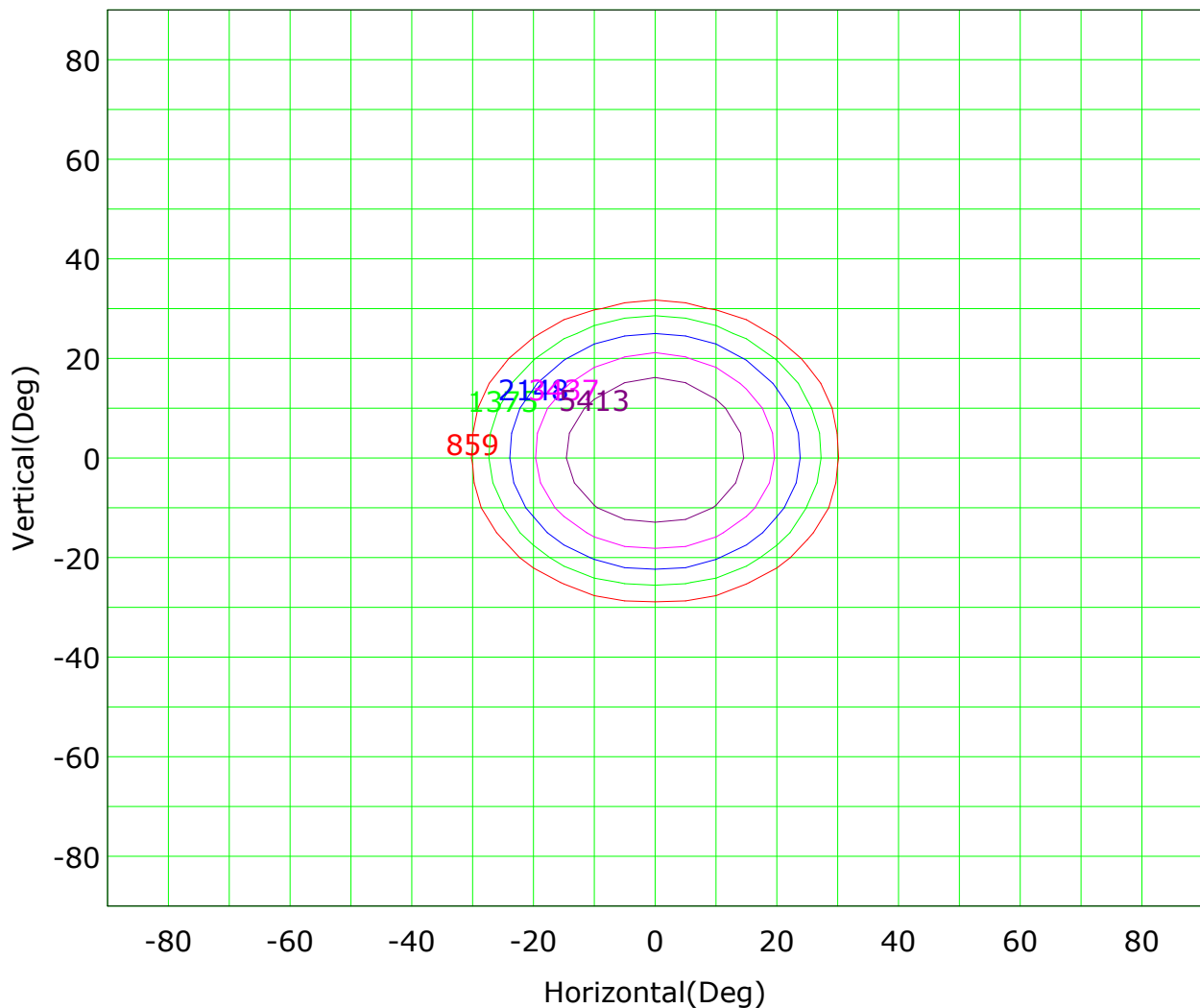
## Luminous Intensity Distribution Curve



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%): 8592 cd

( 10%): 859 cd	( 16%): 1375 cd
( 25%): 2148 cd	( 40%): 3437 cd
( 63%): 5413 cd	(100%): 8592 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

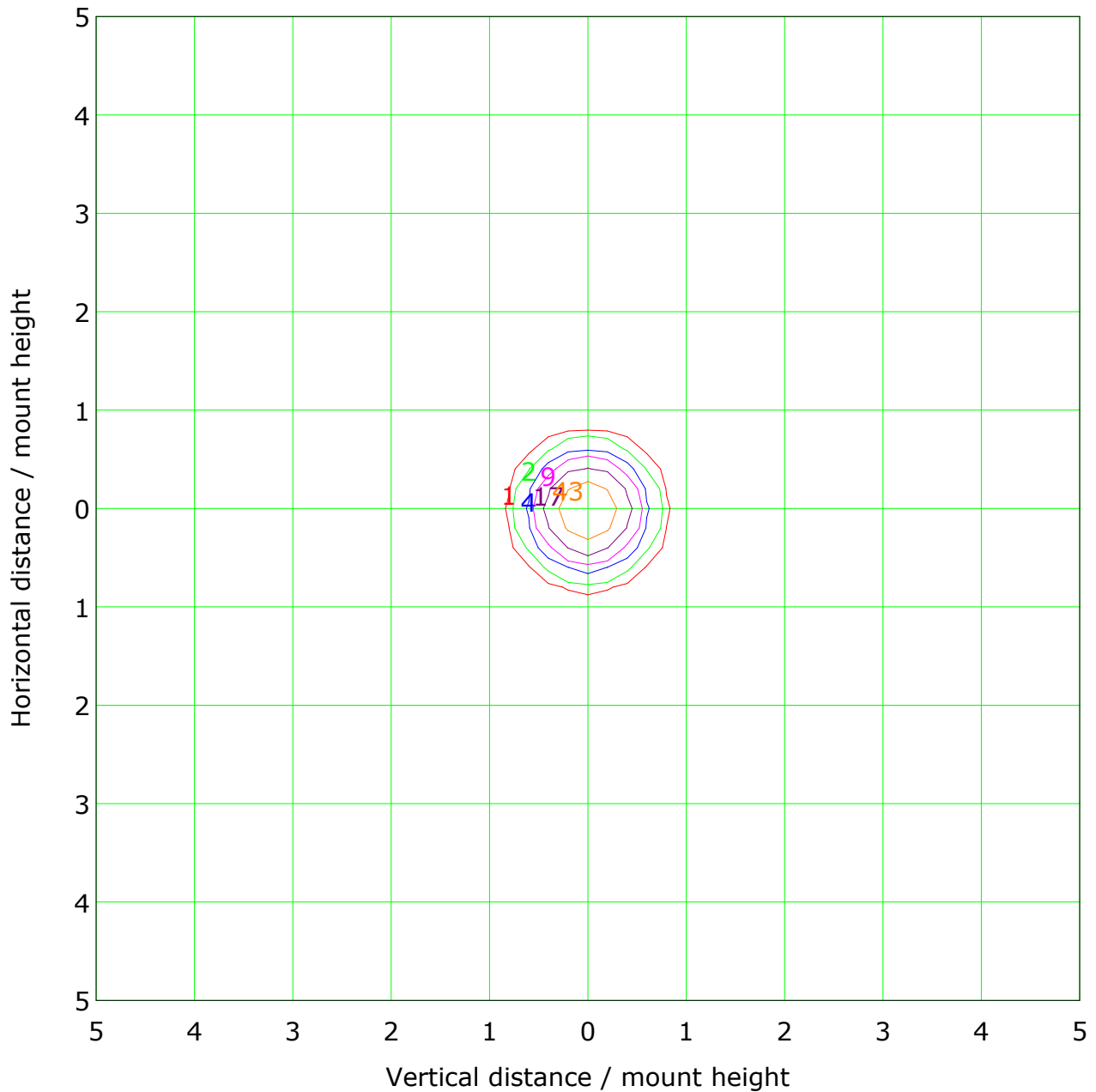
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10m		Max Lux(100%): 86 lx	
( 1%):	1 lx	( 2%):	2 lx
( 5%):	4 lx	( 10%):	9 lx
( 20%):	17 lx	( 50%):	43 lx
(100%):	86 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

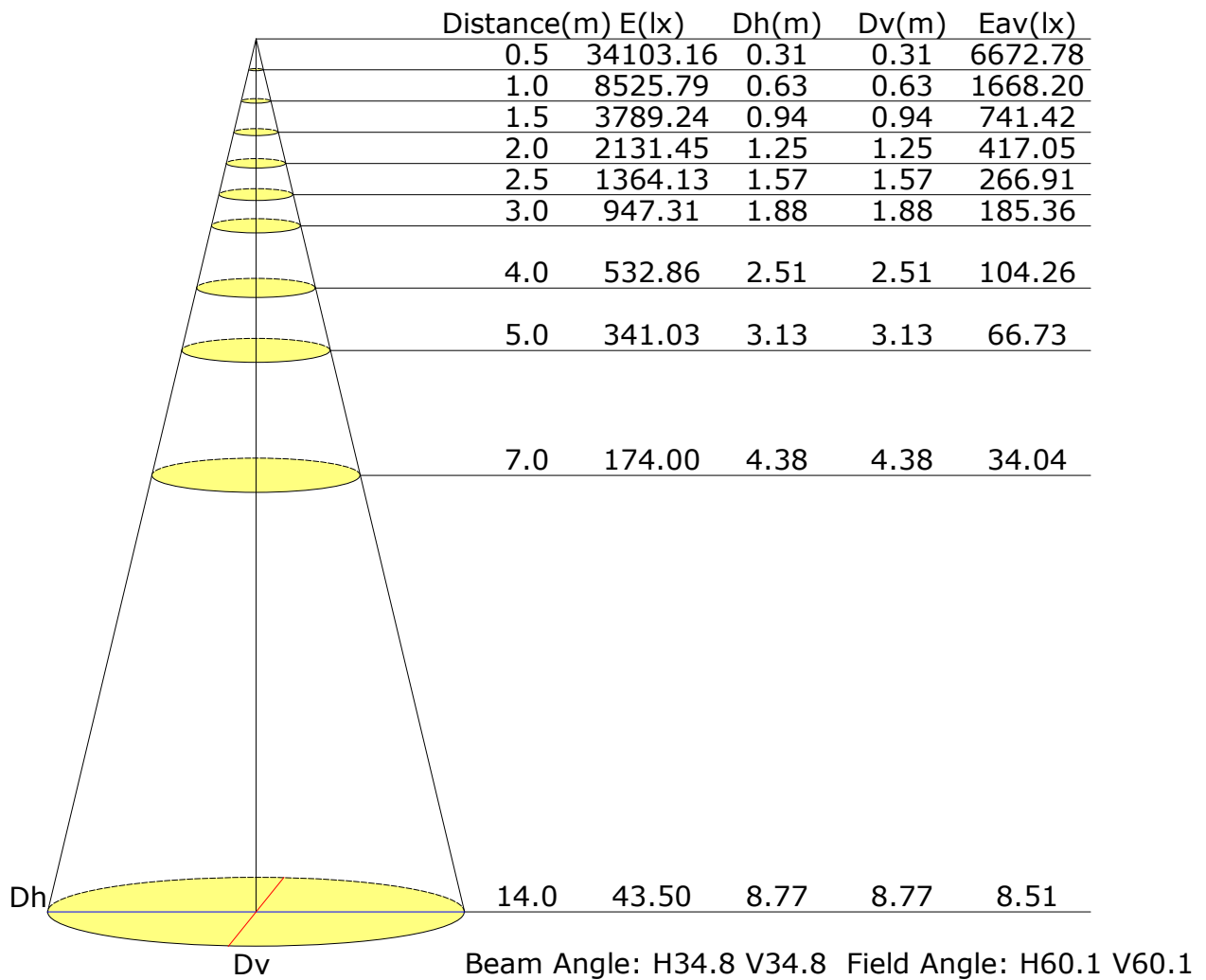
Test Device: CHL-6E

Distance: 3.328 m

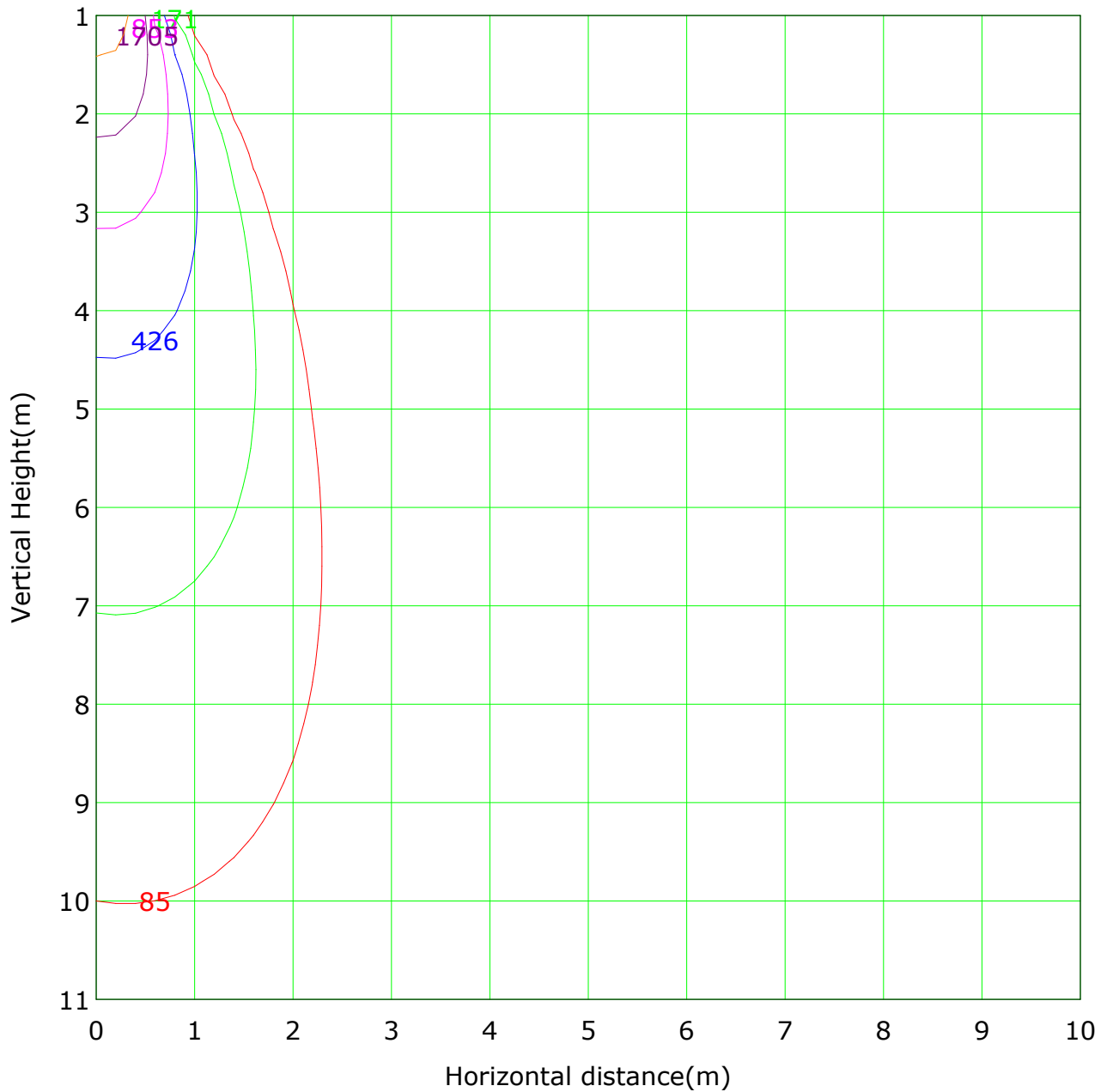
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



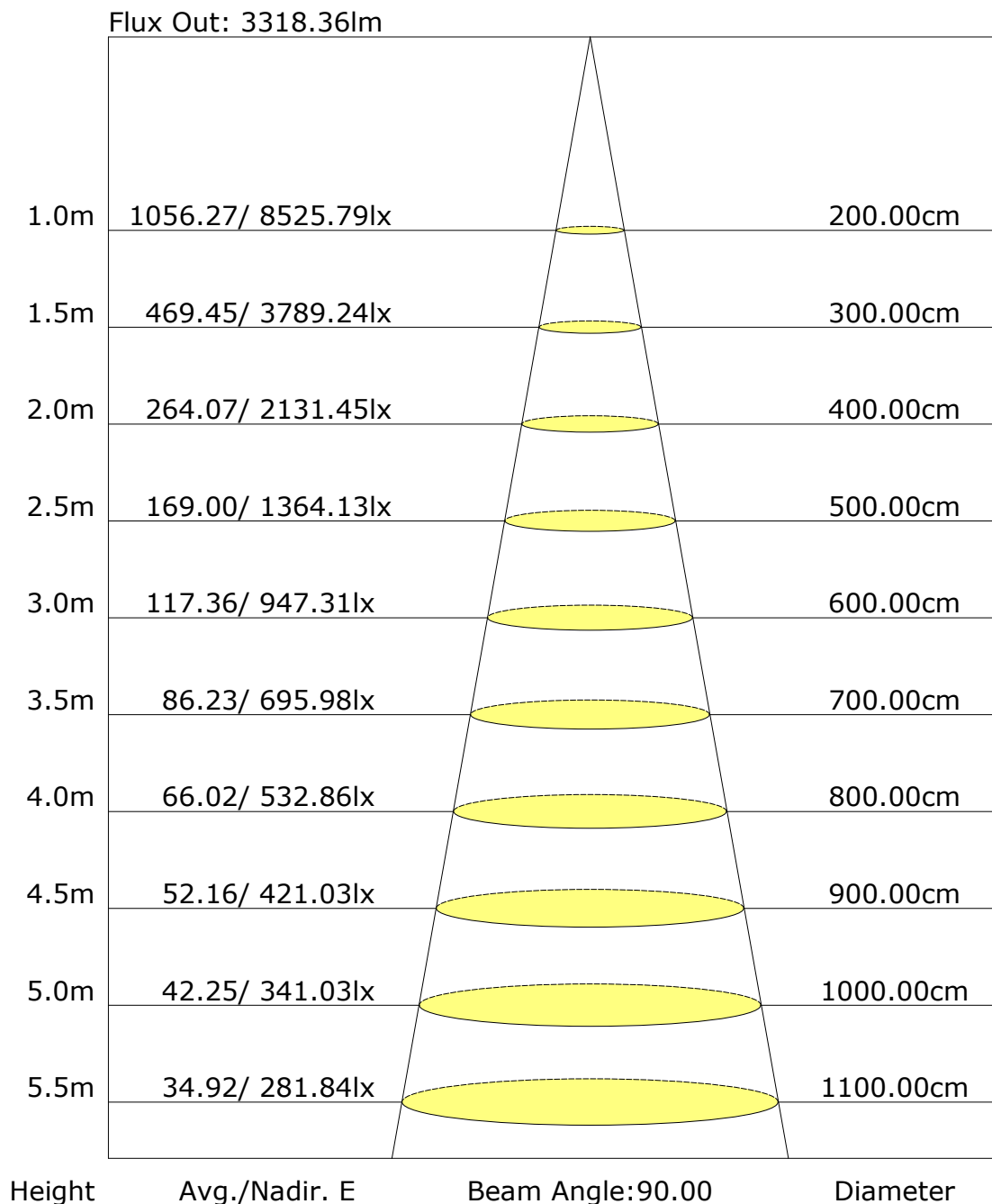
Lowest(m): 1m    Highest(m): 11    Max Lux: 8526

( 1%): 85 lx	( 2%): 171 lx
( 5%): 426 lx	( 10%): 853 lx
( 20%): 1705 lx	( 50%): 4263 lx
(100%): 8526 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	8518.0	8.2	8.2	0.24	0.24
1.0-2.0	8488.7	24.4	32.5	0.72	0.96
2.0-3.0	8429.2	40.3	72.8	1.19	2.15
3.0-4.0	8340.7	55.8	128.7	1.65	3.80
4.0-5.0	8224.1	70.8	199.4	2.09	5.89
5.0-6.0	8078.2	84.9	284.3	2.51	8.40
6.0-7.0	7903.1	98.1	382.5	2.90	11.30
7.0-8.0	7698.6	110.2	492.6	3.25	14.55
8.0-9.0	7464.6	121.0	613.6	3.57	18.13
9.0-10.0	7199.7	130.3	743.9	3.85	21.97
10.0-11.0	6903.0	137.9	881.9	4.07	26.05
11.0-12.0	6577.3	143.8	1025.7	4.25	30.30
12.0-13.0	6226.0	147.8	1173.5	4.36	34.66
13.0-14.0	5853.3	149.8	1323.3	4.43	39.09
14.0-15.0	5464.3	150.0	1473.3	4.43	43.52
15.0-16.0	5063.6	148.4	1621.7	4.38	47.90
16.0-17.0	4657.5	145.1	1766.8	4.28	52.19
17.0-18.0	4253.9	140.3	1907.1	4.14	56.33
18.0-19.0	3860.5	134.3	2041.4	3.97	60.30
19.0-20.0	3480.9	127.4	2168.8	3.76	64.06
20.0-21.0	3120.7	119.8	2288.7	3.54	67.60
21.0-22.0	2784.4	111.9	2400.6	3.31	70.91
22.0-23.0	2472.7	103.8	2504.3	3.07	73.97
23.0-24.0	2187.2	95.6	2600.0	2.83	76.80
24.0-25.0	1927.6	87.7	2687.6	2.59	79.39
25.0-26.0	1691.4	79.9	2767.5	2.36	81.75
26.0-27.0	1476.6	72.3	2839.7	2.13	83.88
27.0-28.0	1282.2	64.9	2904.7	1.92	85.80
28.0-29.0	1107.0	57.9	2962.6	1.71	87.51
29.0-30.0	950.3	51.3	3013.9	1.52	89.03
30.0-31.0	811.3	45.2	3059.1	1.33	90.36
31.0-32.0	688.8	39.5	3098.5	1.17	91.52
32.0-33.0	580.6	34.2	3132.7	1.01	92.53
33.0-34.0	487.4	29.5	3162.2	0.87	93.41
34.0-35.0	408.9	25.4	3187.6	0.75	94.16
35.0-36.0	343.1	21.9	3209.5	0.65	94.80

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	288.9	18.8	3228.3	0.56	95.36
37.0-38.0	244.3	16.3	3244.6	0.48	95.84
38.0-39.0	209.1	14.3	3258.9	0.42	96.26
39.0-40.0	180.5	12.6	3271.5	0.37	96.63
40.0-41.0	157.4	11.2	3282.7	0.33	96.97
41.0-42.0	139.6	10.1	3292.9	0.30	97.26
42.0-43.0	124.4	9.2	3302.1	0.27	97.54
43.0-44.0	111.9	8.4	3310.5	0.25	97.79
44.0-45.0	101.9	7.8	3318.4	0.23	98.02
45.0-46.0	93.2	7.3	3325.6	0.22	98.23
46.0-47.0	85.4	6.8	3332.4	0.20	98.43
47.0-48.0	77.9	6.3	3338.7	0.19	98.62
48.0-49.0	71.4	5.9	3344.6	0.17	98.79
49.0-50.0	65.5	5.5	3350.1	0.16	98.95
50.0-51.0	58.6	5.0	3355.0	0.15	99.10
51.0-52.0	52.4	4.5	3359.5	0.13	99.23
52.0-53.0	46.1	4.0	3363.5	0.12	99.35
53.0-54.0	40.5	3.6	3367.1	0.11	99.46
54.0-55.0	35.8	3.2	3370.3	0.09	99.55
55.0-56.0	30.2	2.7	3373.0	0.08	99.63
56.0-57.0	25.9	2.4	3375.4	0.07	99.70
57.0-58.0	21.8	2.0	3377.4	0.06	99.76
58.0-59.0	17.8	1.7	3379.1	0.05	99.81
59.0-60.0	15.0	1.4	3380.5	0.04	99.85
60.0-61.0	12.5	1.2	3381.7	0.04	99.89
61.0-62.0	10.0	1.0	3382.6	0.03	99.92
62.0-63.0	8.4	0.8	3383.5	0.02	99.94
63.0-64.0	7.2	0.7	3384.2	0.02	99.96
64.0-65.0	5.0	0.5	3384.7	0.01	99.98
65.0-66.0	3.7	0.4	3385.0	0.01	99.99
66.0-67.0	2.8	0.3	3385.3	0.01	100.00
67.0-68.0	1.2	0.1	3385.4	0.00	100.00
68.0-69.0	0.3	0.0	3385.5	0.00	100.00
69.0-70.0	0.0	0.0	3385.5	0.00	100.00
70.0-71.0	0.0	0.0	3385.5	0.00	100.00
71.0-72.0	0.0	0.0	3385.5	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	8525.8	8525.8								
G1.0	8571.9	8448.5								
G2.0	8591.9	8342.5								
G3.0	8570.7	8211.6								
G4.0	8528.3	8052.1								
G5.0	8446.0	7870.1								
G6.0	8338.8	7658.1								
G7.0	8196.7	7418.8								
G8.0	8025.9	7153.2								
G9.0	7820.2	6859.0								
G10.0	7580.8	6538.6								
G11.0	7302.8	6189.6								
G12.0	6994.9	5821.8								
G13.0	6655.8	5431.6								
G14.0	6286.8	5038.9								
G15.0	5892.9	4638.8								
G16.0	5486.5	4236.1								
G17.0	5063.9	3843.4								
G18.0	4645.0	3463.2								
G19.0	4231.1	3102.9								
G20.0	3823.4	2766.3								
G21.0	3438.2	2454.6								
G22.0	3075.5	2169.2								
G23.0	2736.4	1909.9								
G24.0	2426.0	1676.7								
G25.0	2143.0	1464.8								
G26.0	1881.2	1276.6								
G27.0	1644.3	1104.5								
G28.0	1432.4	947.5								
G29.0	1237.9	810.3								
G30.0	1064.6	688.2								
G31.0	910.0	582.2								
G32.0	774.2	488.7								
G33.0	650.8	408.9								
G34.0	547.3	342.8								
G35.0	457.5	288.0								
G36.0	384.0	243.1								

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:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	320.4	208.2								
G38.0	271.8	177.0								
G39.0	230.6	157.1								
G40.0	195.7	138.4								
G41.0	170.8	124.7								
G42.0	150.8	112.2								
G43.0	132.1	102.2								
G44.0	119.7	93.5								
G45.0	108.5	86.0								
G46.0	98.5	79.8								
G47.0	92.3	71.1								
G48.0	83.5	64.8								
G49.0	78.5	58.6								
G50.0	71.1	53.6								
G51.0	62.3	47.4								
G52.0	57.3	42.4								
G53.0	49.9	34.9								
G54.0	47.4	29.9								
G55.0	39.9	26.2								
G56.0	34.9	20.0								
G57.0	29.9	18.7								
G58.0	24.9	13.7								
G59.0	20.0	12.5								
G60.0	17.5	10.0								
G61.0	13.7	8.7								
G62.0	11.2	6.2								
G63.0	10.0	6.2								
G64.0	8.7	3.7								
G65.0	6.2	1.3								
G66.0	6.2	1.3								
G67.0	3.7	0.0								
G68.0	1.3	0.0								
G69.0	0.0	0.0								
G70.0	0.0	0.0								
G71.0	0.0	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: