

Report No.:

Test Time: 2024-08-28 17:20

## Luminaire Property

Luminaire Category:

Luminaire Description: 51.04522 50D

Current: 0.171 A

Power Factor: 0.977

Voltage: 224.6 V

Power: 37.70 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 3216.4 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H51.3

Vertical Diffuse Angle(50%): V51.3

Luminaire Efficacy Rating (LER): 85

Max. Intensity: 4640.01 cd

Total Rated Lamp Lumens: 3216.4 lm

Efficiency: 100%

Upward Ratio: 0%

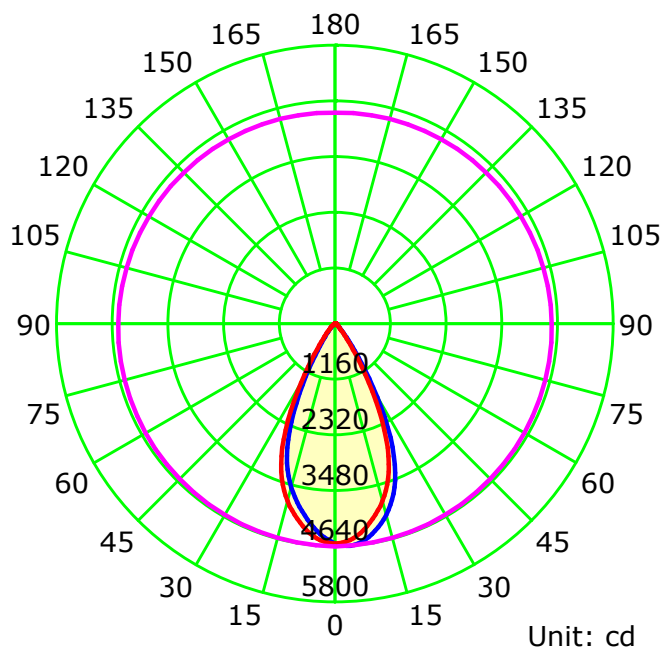
Central Intensity: 4580.17 cd

Pos of Max. Intensity: H0 V4

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G4

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

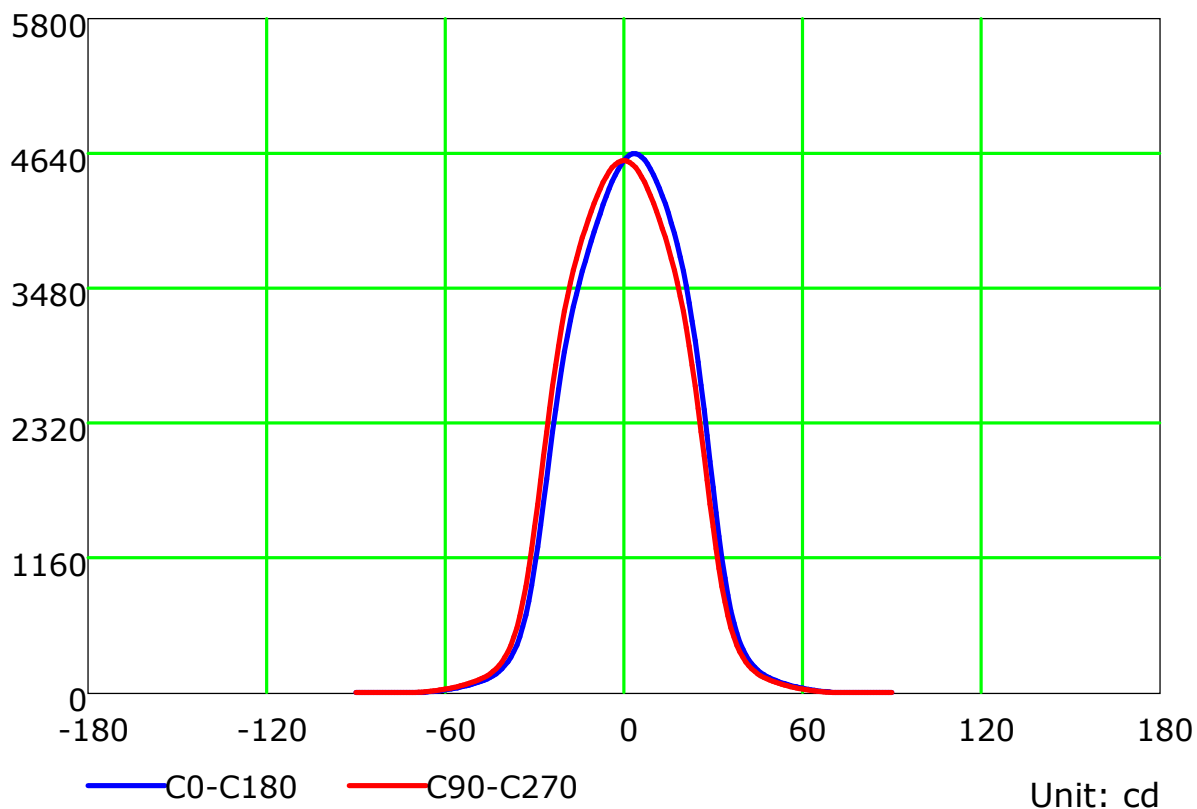
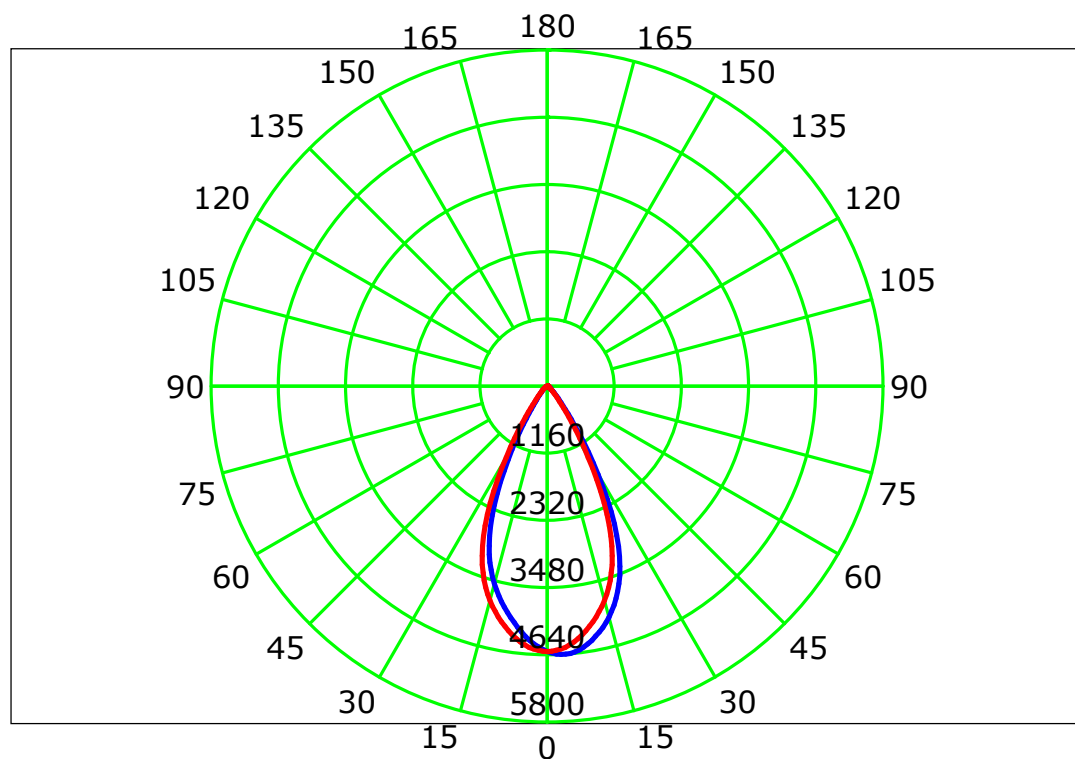
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

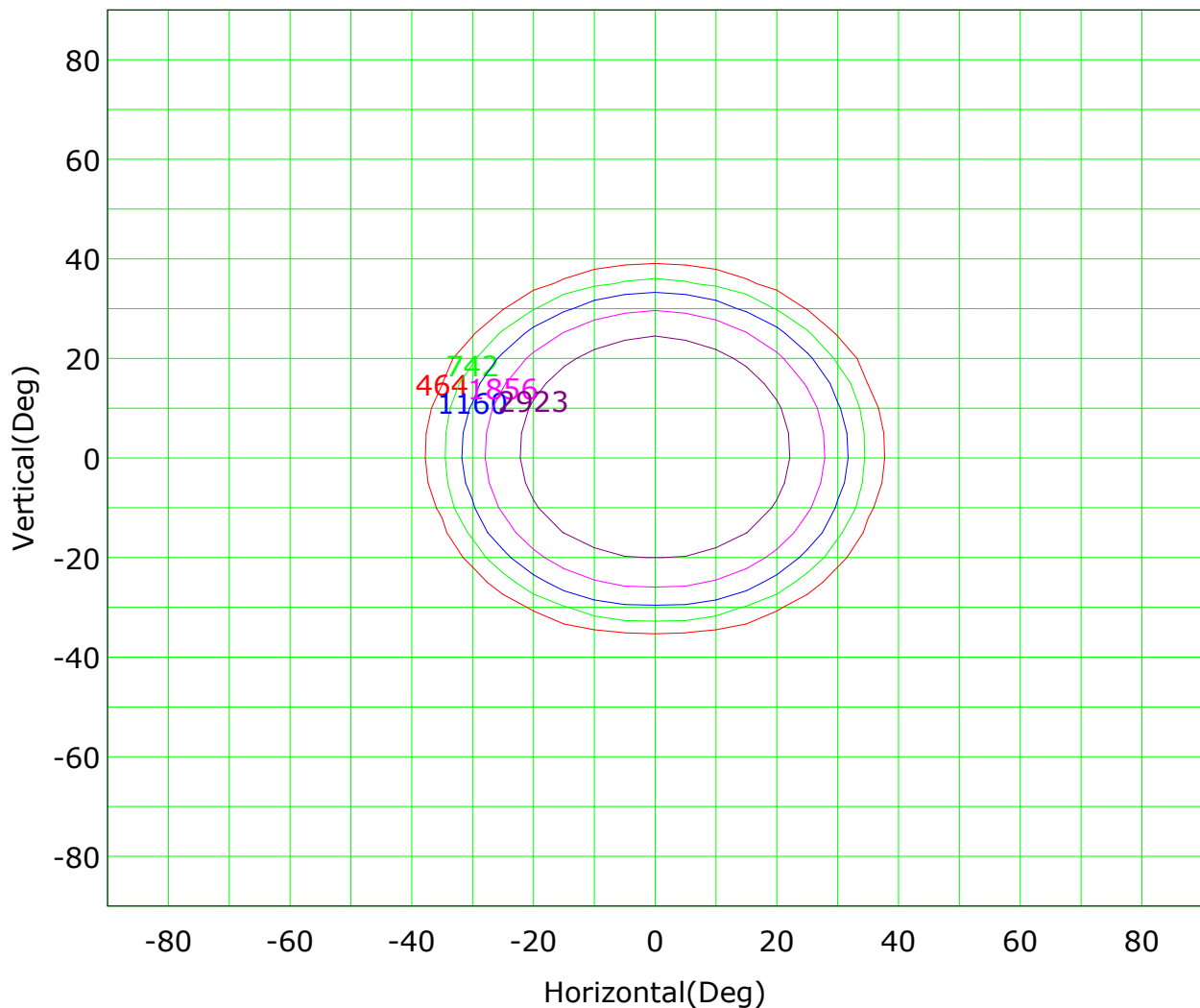
## Luminous Intensity Distribution Curve



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)



I<sub>max</sub> (100%): 4640 cd

( 10%): 464 cd	( 16%): 742 cd
( 25%): 1160 cd	( 40%): 1856 cd
( 63%): 2923 cd	(100%): 4640 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

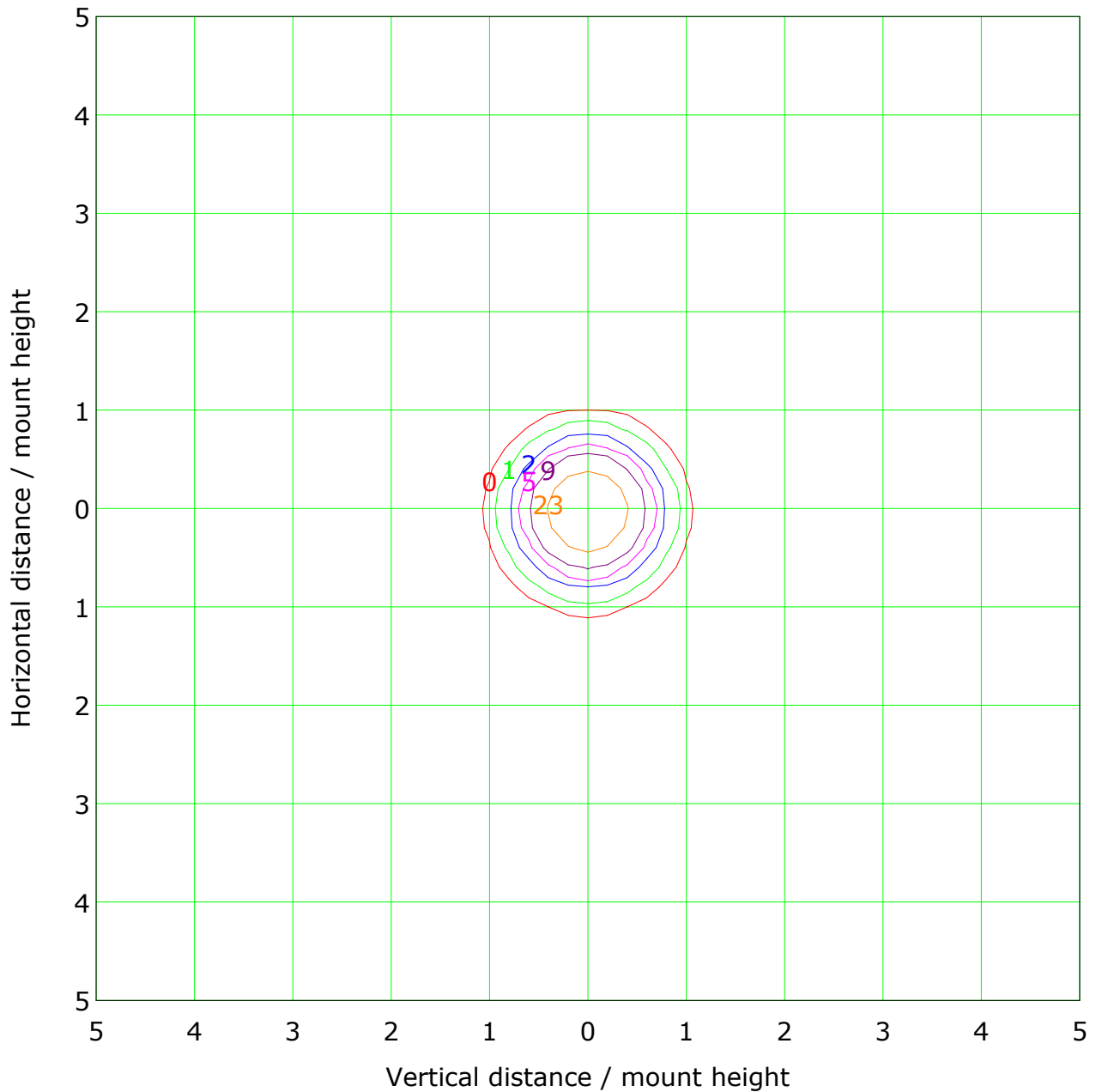
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10m		Max Lux(100%): 46 lx	
( 1%):	0 lx	( 2%):	1 lx
( 5%):	2 lx	( 10%):	5 lx
( 20%):	9 lx	( 50%):	23 lx
(100%):	46 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

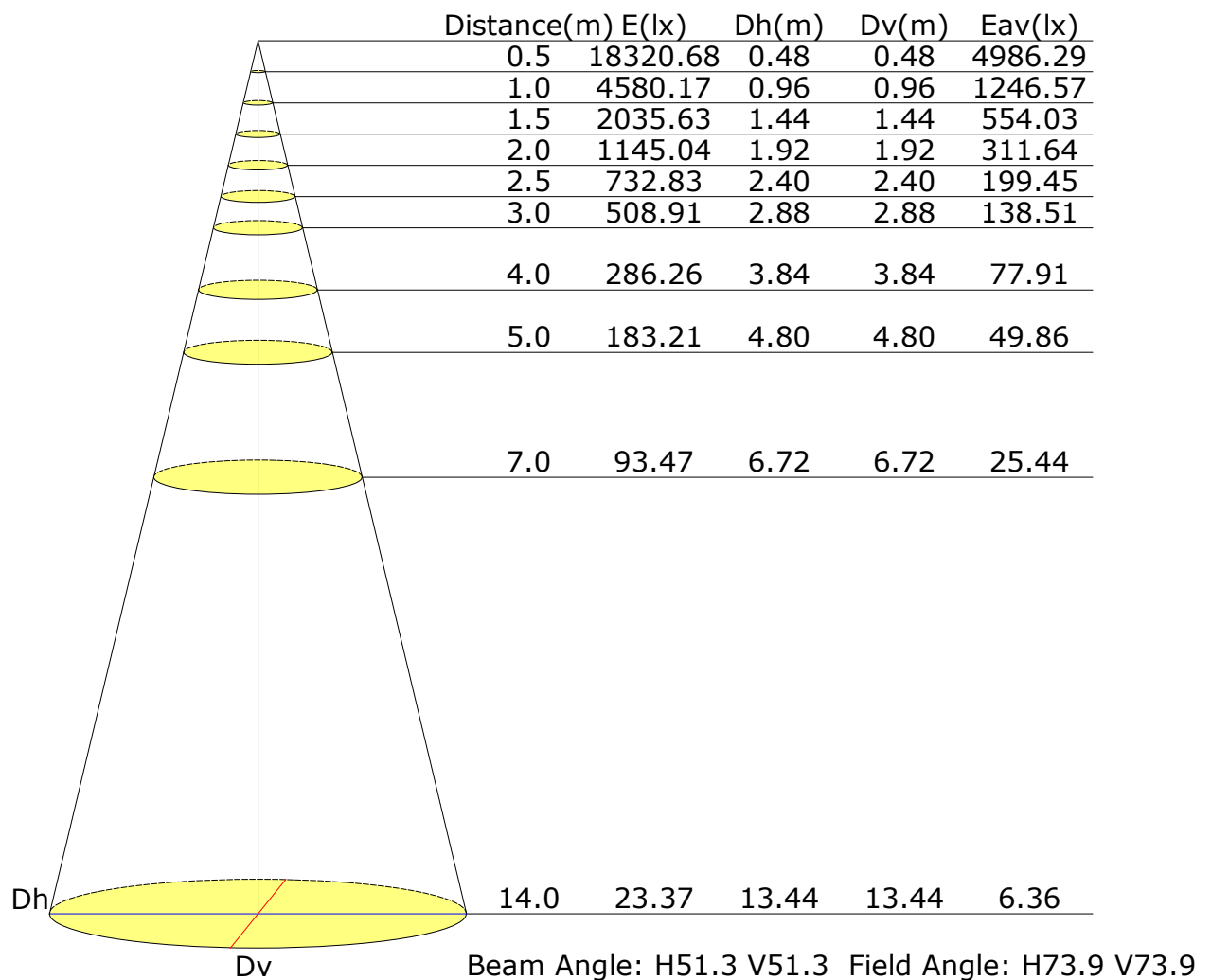
Test Device: CHL-6E

Distance: 3.328 m

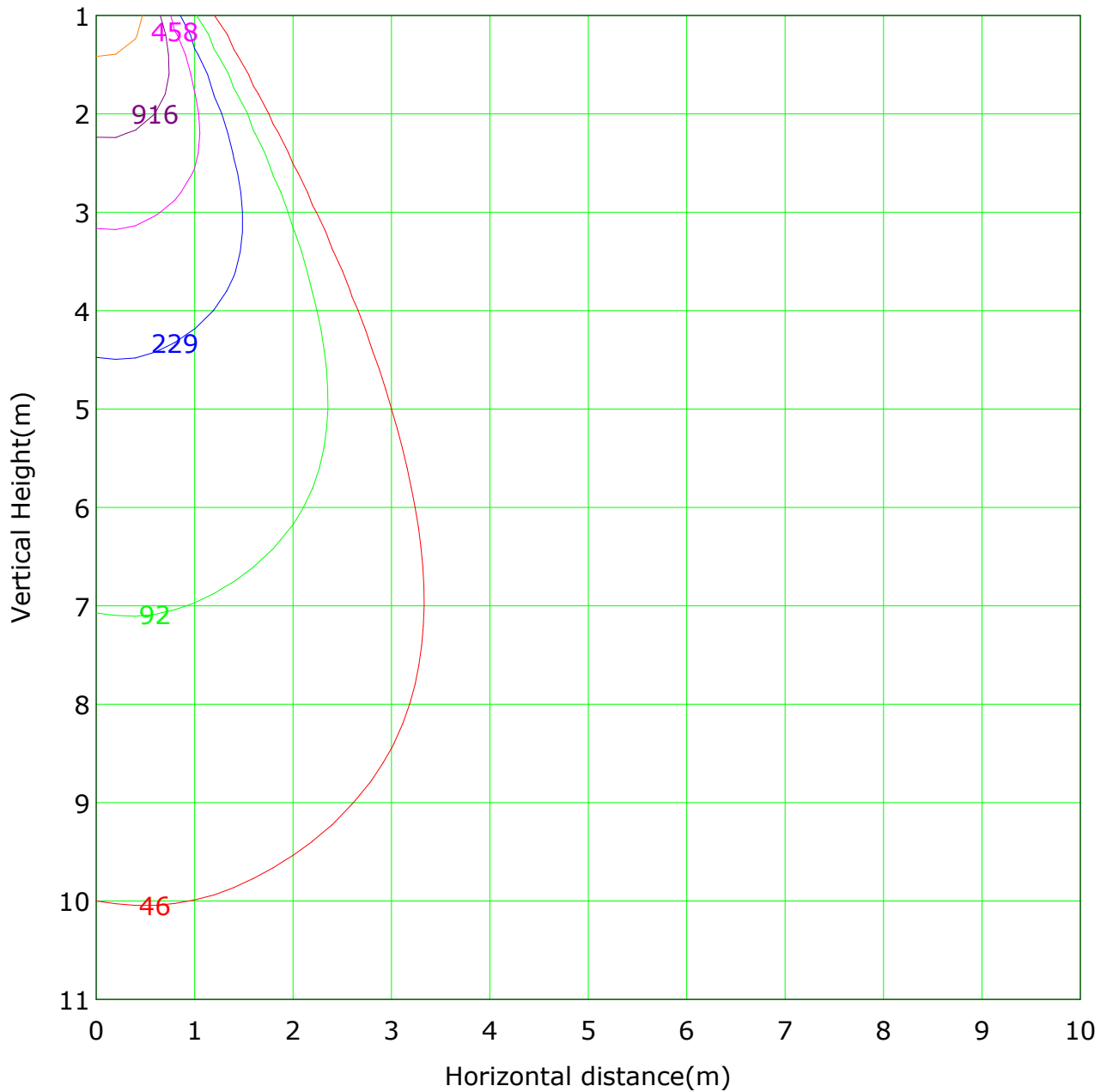
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



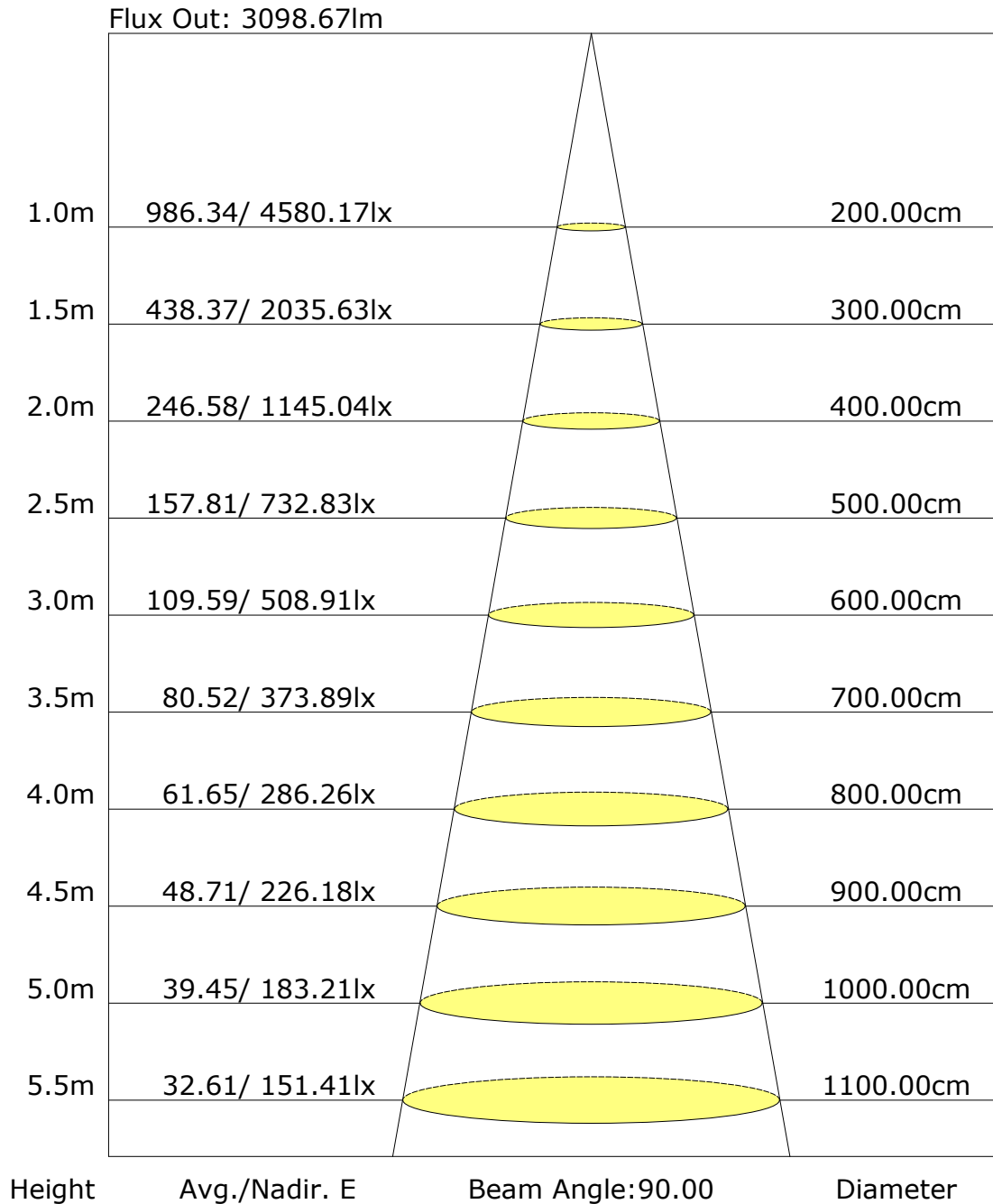
Lowest(m): 1m    Highest(m): 11    Max Lux: 4580

( 1%): 46 lx	( 2%): 92 lx
( 5%): 229 lx	( 10%): 458 lx
( 20%): 916 lx	( 50%): 2290 lx
(100%): 4580 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	4577.4	4.4	4.4	0.14	0.14
1.0-2.0	4568.9	13.1	17.5	0.41	0.54
2.0-3.0	4554.6	21.8	39.3	0.68	1.22
3.0-4.0	4532.5	30.3	69.6	0.94	2.16
4.0-5.0	4501.6	38.7	108.4	1.20	3.37
5.0-6.0	4462.4	46.9	155.3	1.46	4.83
6.0-7.0	4416.9	54.8	210.1	1.70	6.53
7.0-8.0	4364.5	62.5	272.6	1.94	8.47
8.0-9.0	4306.2	69.8	342.4	2.17	10.64
9.0-10.0	4243.6	76.8	419.2	2.39	13.03
10.0-11.0	4176.6	83.5	502.6	2.59	15.63
11.0-12.0	4107.4	89.8	592.4	2.79	18.42
12.0-13.0	4033.5	95.7	688.2	2.98	21.40
13.0-14.0	3955.9	101.3	789.4	3.15	24.54
14.0-15.0	3873.0	106.3	895.8	3.31	27.85
15.0-16.0	3782.3	110.8	1006.6	3.45	31.30
16.0-17.0	3686.0	114.8	1121.4	3.57	34.87
17.0-18.0	3582.9	118.1	1239.6	3.67	38.54
18.0-19.0	3469.7	120.7	1360.3	3.75	42.29
19.0-20.0	3346.0	122.5	1482.8	3.81	46.10
20.0-21.0	3210.1	123.3	1606.1	3.83	49.93
21.0-22.0	3060.8	123.0	1729.1	3.82	53.76
22.0-23.0	2899.7	121.7	1850.8	3.78	57.54
23.0-24.0	2726.7	119.2	1970.0	3.71	61.25
24.0-25.0	2541.0	115.6	2085.6	3.59	64.84
25.0-26.0	2344.3	110.7	2196.2	3.44	68.28
26.0-27.0	2140.2	104.7	2300.9	3.26	71.54
27.0-28.0	1932.6	97.9	2398.8	3.04	74.58
28.0-29.0	1725.7	90.3	2489.1	2.81	77.39
29.0-30.0	1523.7	82.3	2571.4	2.56	79.95
30.0-31.0	1331.1	74.1	2645.5	2.30	82.25
31.0-32.0	1151.9	66.0	2711.5	2.05	84.30
32.0-33.0	989.8	58.3	2769.8	1.81	86.11
33.0-34.0	845.8	51.2	2821.0	1.59	87.71
34.0-35.0	719.0	44.7	2865.6	1.39	89.09
35.0-36.0	609.3	38.8	2904.4	1.21	90.30

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	518.0	33.8	2938.2	1.05	91.35
37.0-38.0	441.9	29.5	2967.7	0.92	92.27
38.0-39.0	378.7	25.8	2993.6	0.80	93.07
39.0-40.0	327.6	22.8	3016.4	0.71	93.78
40.0-41.0	284.5	20.3	3036.7	0.63	94.41
41.0-42.0	248.1	18.0	3054.7	0.56	94.97
42.0-43.0	218.2	16.2	3070.9	0.50	95.48
43.0-44.0	193.2	14.6	3085.5	0.45	95.93
44.0-45.0	171.7	13.2	3098.7	0.41	96.34
45.0-46.0	153.6	12.0	3110.7	0.37	96.71
46.0-47.0	138.4	11.0	3121.7	0.34	97.06
47.0-48.0	125.0	10.1	3131.8	0.31	97.37
48.0-49.0	113.4	9.3	3141.1	0.29	97.66
49.0-50.0	102.8	8.6	3149.7	0.27	97.93
50.0-51.0	93.5	7.9	3157.6	0.25	98.17
51.0-52.0	84.8	7.3	3164.9	0.23	98.40
52.0-53.0	76.0	6.6	3171.5	0.21	98.60
53.0-54.0	68.3	6.0	3177.5	0.19	98.79
54.0-55.0	61.7	5.5	3183.0	0.17	98.96
55.0-56.0	54.9	5.0	3188.0	0.15	99.12
56.0-57.0	48.6	4.4	3192.4	0.14	99.25
57.0-58.0	43.6	4.0	3196.5	0.13	99.38
58.0-59.0	38.3	3.6	3200.0	0.11	99.49
59.0-60.0	33.7	3.2	3203.2	0.10	99.59
60.0-61.0	29.0	2.8	3206.0	0.09	99.68
61.0-62.0	24.6	2.4	3208.4	0.07	99.75
62.0-63.0	20.9	2.0	3210.4	0.06	99.81
63.0-64.0	16.8	1.7	3212.0	0.05	99.86
64.0-65.0	13.7	1.4	3213.4	0.04	99.91
65.0-66.0	11.2	1.1	3214.5	0.03	99.94
66.0-67.0	7.8	0.8	3215.3	0.02	99.97
67.0-68.0	5.0	0.5	3215.8	0.02	99.98
68.0-69.0	3.7	0.4	3216.2	0.01	99.99
69.0-70.0	1.9	0.2	3216.4	0.01	100.00
70.0-71.0	0.3	0.0	3216.4	0.00	100.00
71.0-72.0	0.0	0.0	3216.4	0.00	100.00

C Plane (°):0.0-180.0: 180.0  
Test Lab:  
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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	4580.2	4580.2								
G1.0	4606.4	4542.8								
G2.0	4626.3	4500.4								
G3.0	4638.8	4453.0								
G4.0	4640.0	4398.2								
G5.0	4630.0	4338.3								
G6.0	4610.1	4271.0								
G7.0	4586.4	4199.9								
G8.0	4550.3	4121.4								
G9.0	4505.4	4047.9								
G10.0	4454.3	3966.8								
G11.0	4398.2	3887.0								
G12.0	4340.8	3803.5								
G13.0	4274.7	3715.0								
G14.0	4206.2	3627.7								
G15.0	4128.9	3529.3								
G16.0	4041.6	3429.5								
G17.0	3951.9	3321.1								
G18.0	3855.9	3202.6								
G19.0	3747.4	3073.0								
G20.0	3630.2	2933.4								
G21.0	3499.3	2777.5								
G22.0	3356.0	2610.5								
G23.0	3198.9	2433.4								
G24.0	3029.3	2245.2								
G25.0	2844.8	2044.5								
G26.0	2647.9	1840.1								
G27.0	2435.9	1636.8								
G28.0	2215.3	1442.4								
G29.0	1989.6	1255.4								
G30.0	1766.5	1083.3								
G31.0	1549.6	925.0								
G32.0	1346.4	786.6								
G33.0	1158.1	668.2								
G34.0	988.6	568.5								
G35.0	837.7	481.2								
G36.0	708.1	410.1								

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	599.6	354.0								
G38.0	509.9	304.2								
G39.0	435.1	265.5								
G40.0	374.0	235.6								
G41.0	322.9	205.7								
G42.0	281.7	182.0								
G43.0	248.1	160.8								
G44.0	219.4	144.6								
G45.0	193.2	129.6								
G46.0	173.3	118.4								
G47.0	154.6	107.2								
G48.0	139.6	98.5								
G49.0	127.2	88.5								
G50.0	114.7	81.0								
G51.0	104.7	73.6								
G52.0	96.0	64.8								
G53.0	84.8	58.6								
G54.0	77.3	52.4								
G55.0	69.8	47.4								
G56.0	61.1	41.1								
G57.0	54.8	37.4								
G58.0	49.9	32.4								
G59.0	42.4	28.7								
G60.0	39.9	23.7								
G61.0	32.4	20.0								
G62.0	29.9	16.2								
G63.0	23.7	13.7								
G64.0	20.0	10.0								
G65.0	16.2	8.7								
G66.0	13.7	6.2								
G67.0	10.0	1.3								
G68.0	8.7	0.0								
G69.0	6.2	0.0								
G70.0	1.3	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: