

Report No.:

Test Time: 2025-05-04 14:59

Luminaire Property

Luminaire Category:

Luminaire Description: MINI PRO 51.04523 240lm

V Current: 0.068 A

Power: 8.50 W

Power Factor: 0.542

Photometric Results

CIE Class: Direct

Measurement Flux: 684.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H22.6

Vertical Diffuse Angle(50%): V22.6

Luminaire Efficacy Rating (LER): 81

Max. Intensity: 3698.49 cd

Total Rated Lamp Lumens: 684.5 lm

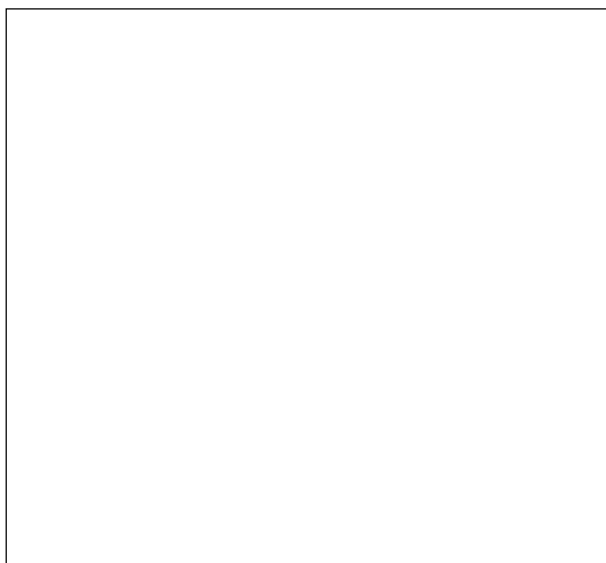
Efficiency: 100%

Upward Ratio: 0%

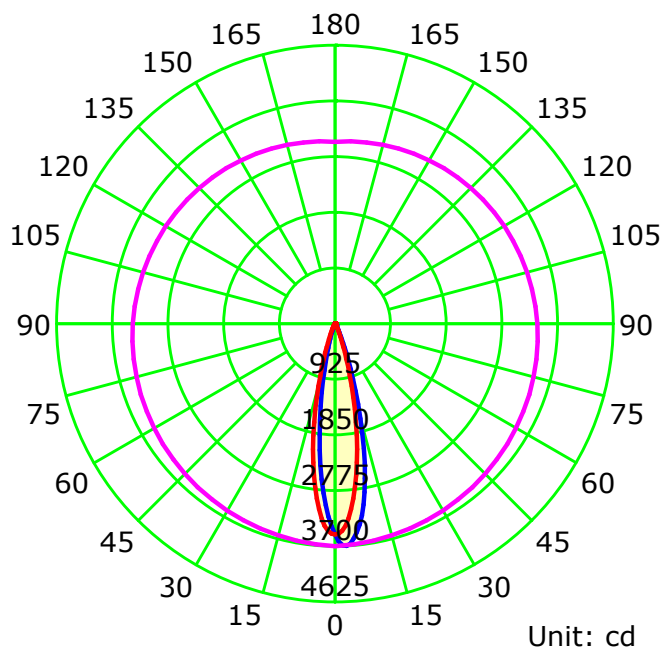
Central Intensity: 3503.07 cd

Pos of Max. Intensity: H0 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G3

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

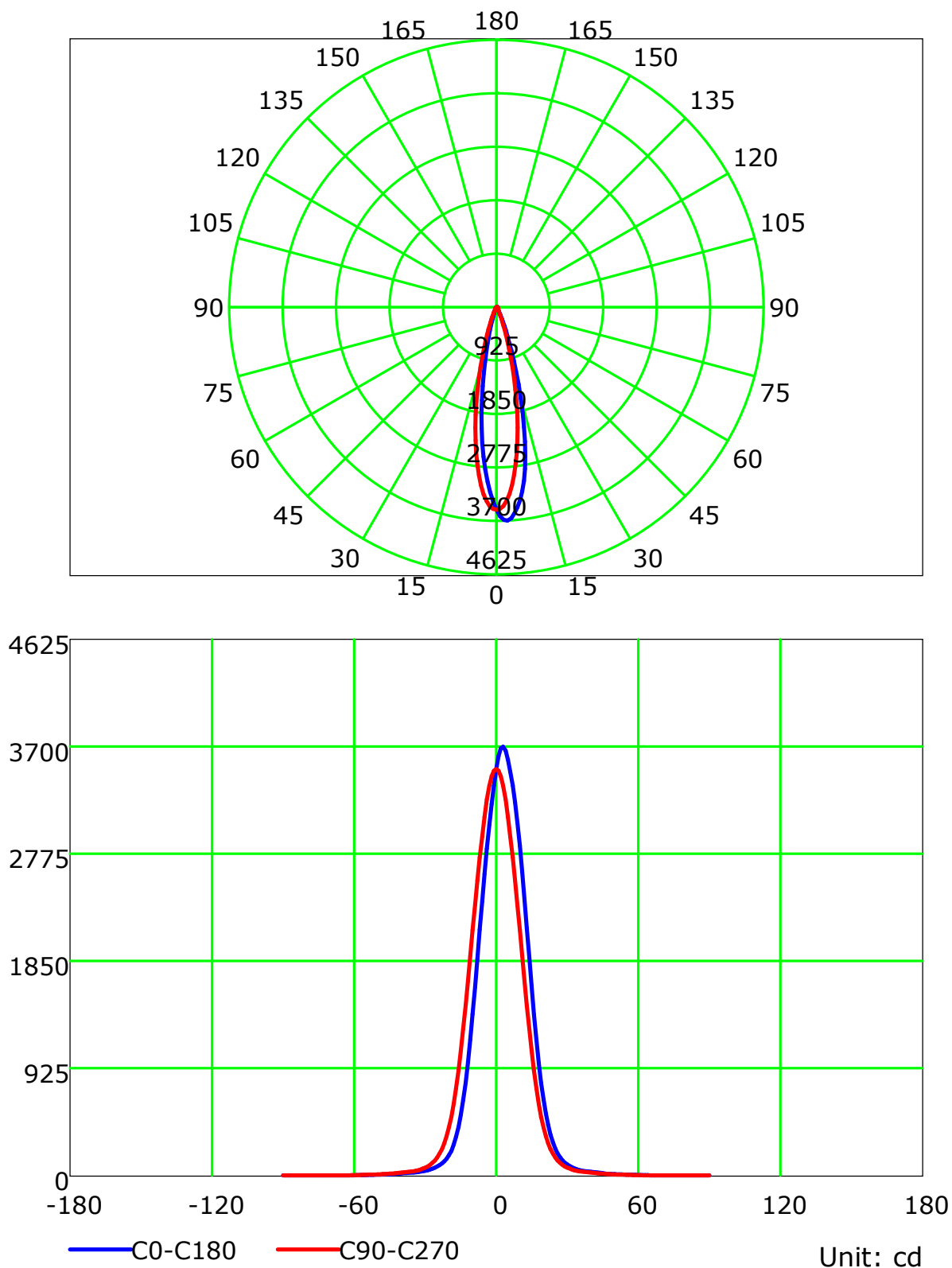
Test Device: CHL-6E

Distance: 3.655 m

Humidity:

Inspector:

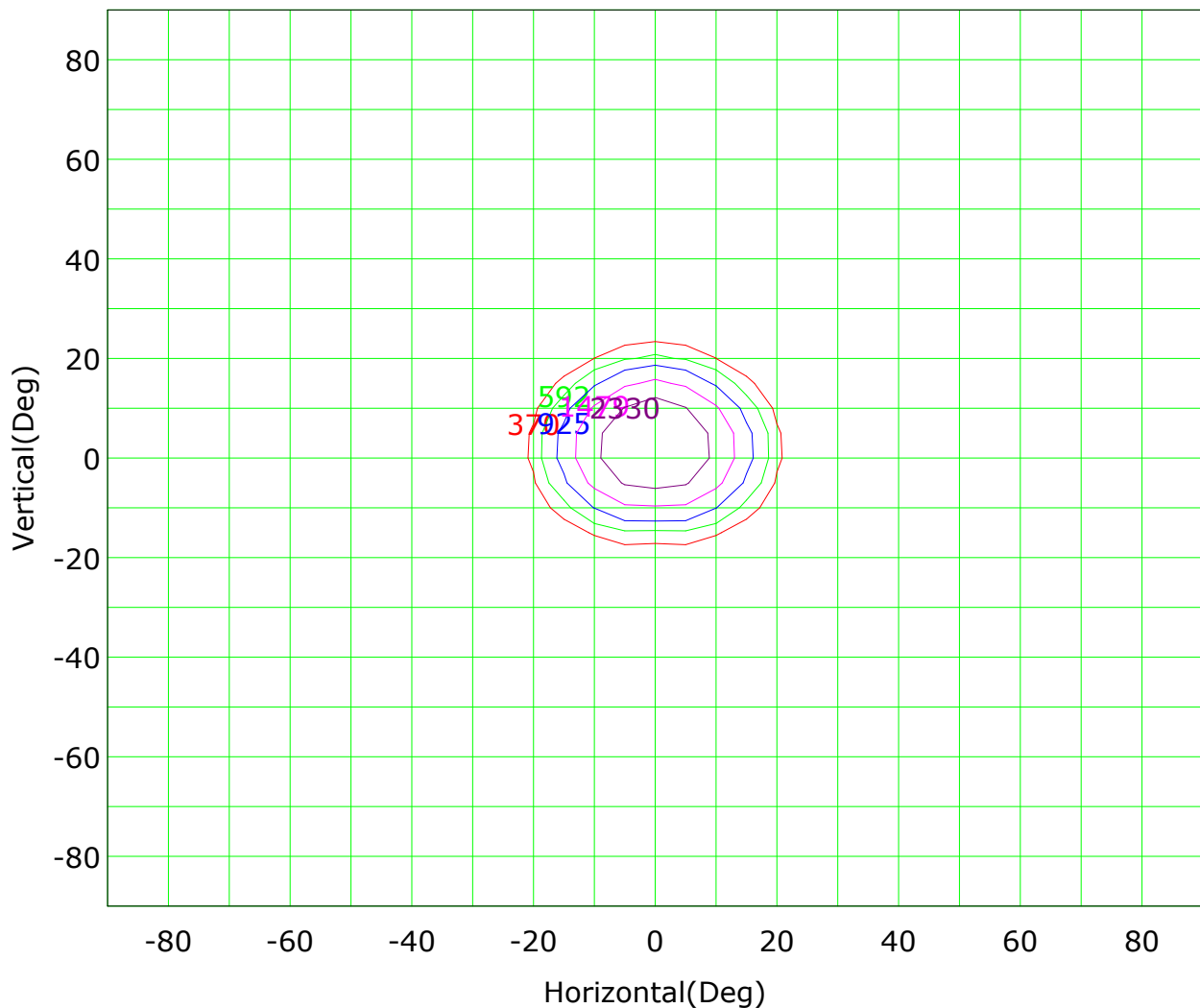
Luminous Intensity Distribution Curve



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: 3.655 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 3698 cd

(10%): 370 cd	(16%): 592 cd
(25%): 925 cd	(40%): 1479 cd
(63%): 2330 cd	(100%): 3698 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

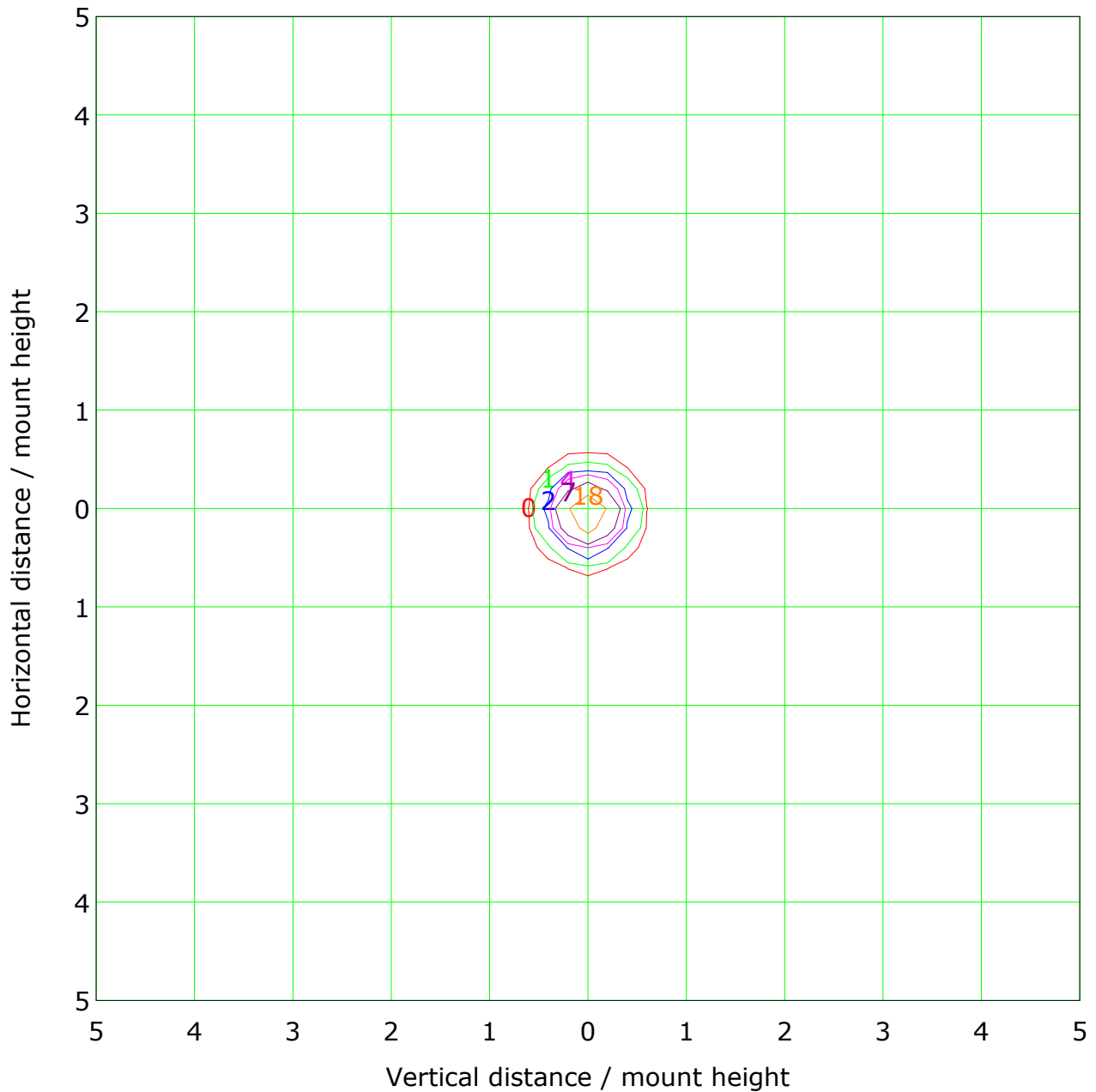
Test Device: CHL-6E

Distance: 3.655 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10m		Max Lux(100%): 37 lx	
(1%):	0 lx	(2%):	1 lx
(5%):	2 lx	(10%):	4 lx
(20%):	7 lx	(50%):	18 lx
(100%):	37 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

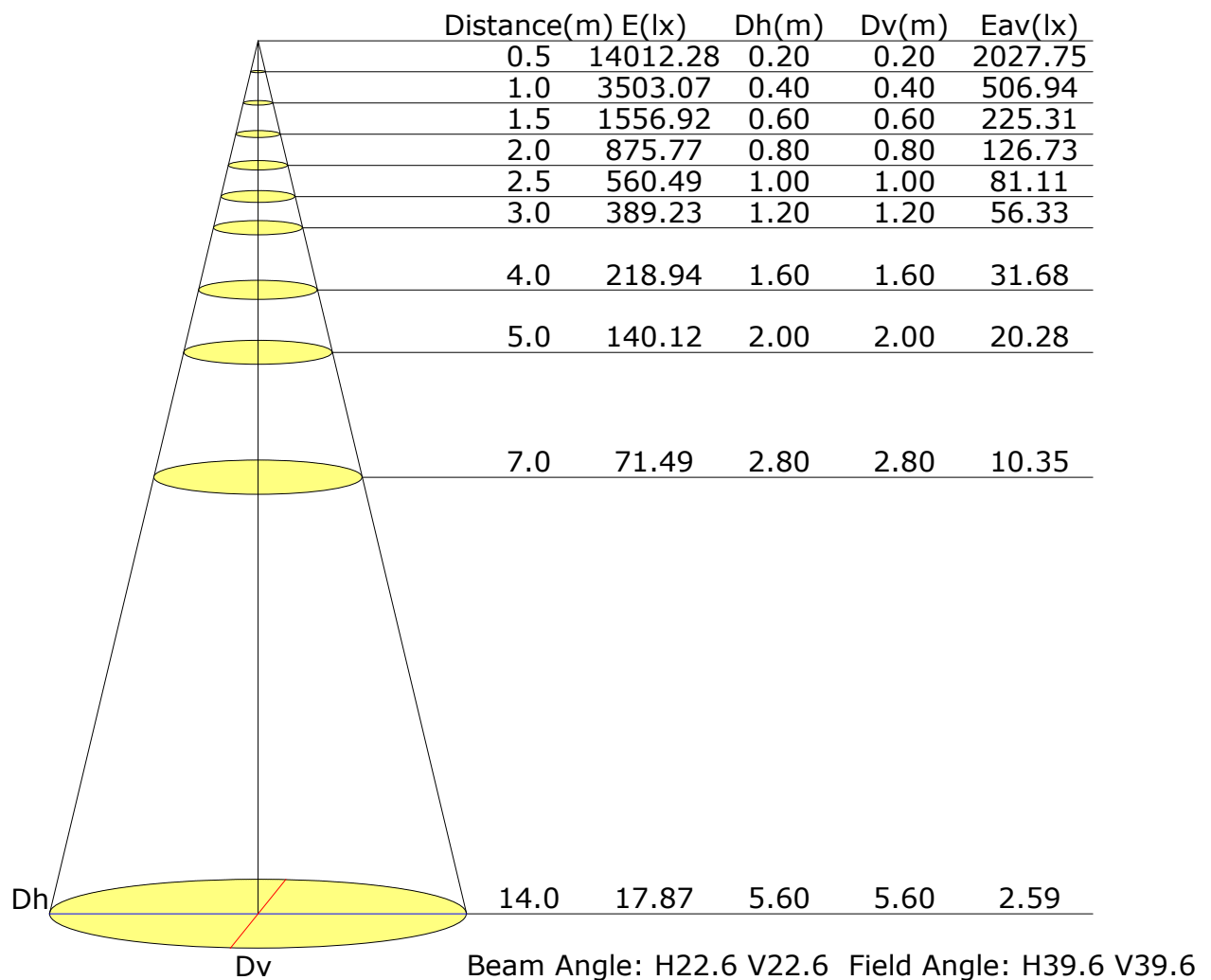
Test Device: CHL-6E

Distance: 3.655 m

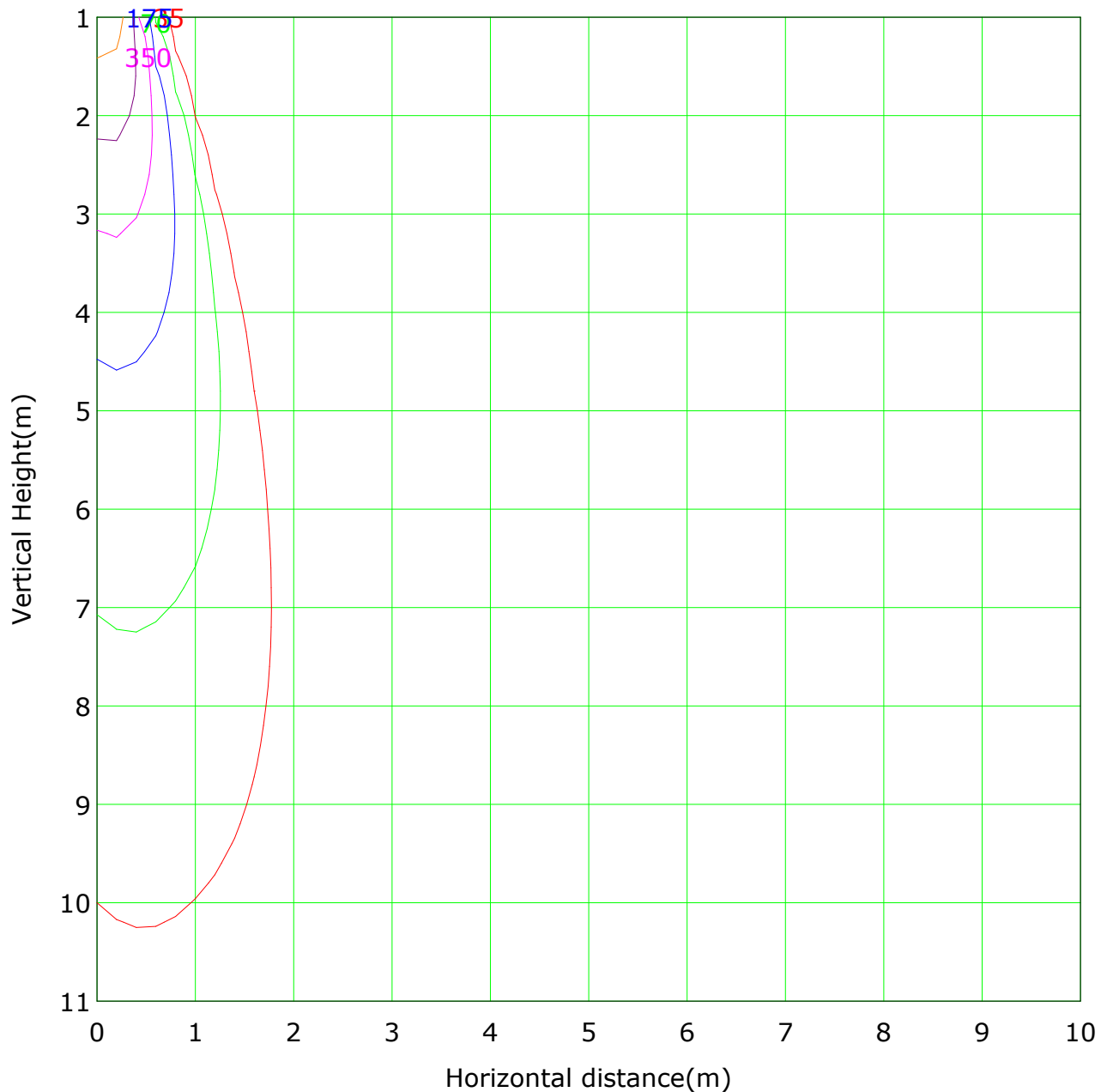
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



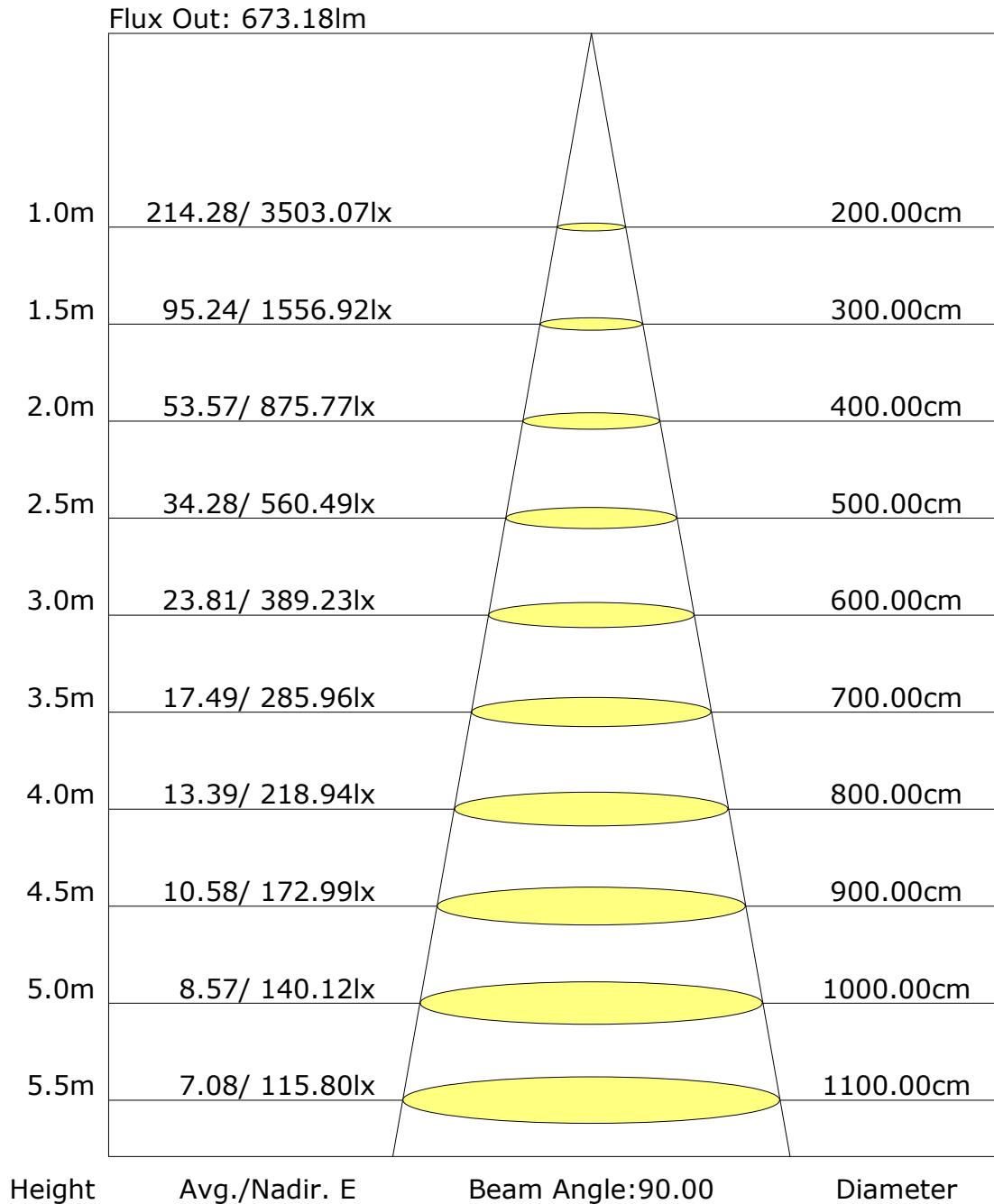
Lowest(m): 1m Highest(m): 11 Max Lux: 3503

(1%): 35 lx	(2%): 70 lx
(5%): 175 lx	(10%): 350 lx
(20%): 701 lx	(50%): 1752 lx
(100%): 3503 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: 3.655 m
Humidity:
Inspector:

The average illuminance effective figure



Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	3496.9	3.3	3.3	0.49	0.49
1.0-2.0	3467.0	10.0	13.3	1.45	1.94
2.0-3.0	3402.0	16.3	29.6	2.38	4.32
3.0-4.0	3301.4	22.1	51.7	3.23	7.55
4.0-5.0	3166.9	27.2	78.9	3.98	11.53
5.0-6.0	3007.3	31.6	110.5	4.62	16.15
6.0-7.0	2832.2	35.2	145.7	5.14	21.28
7.0-8.0	2642.5	37.8	183.5	5.53	26.81
8.0-9.0	2439.0	39.5	223.0	5.78	32.59
9.0-10.0	2225.7	40.3	263.3	5.88	38.47
10.0-11.0	2005.7	40.1	303.4	5.86	44.33
11.0-12.0	1785.6	39.0	342.5	5.70	50.03
12.0-13.0	1570.9	37.3	379.7	5.45	55.48
13.0-14.0	1365.0	34.9	414.7	5.11	60.58
14.0-15.0	1171.1	32.2	446.8	4.70	65.28
15.0-16.0	991.4	29.1	475.9	4.24	69.52
16.0-17.0	827.9	25.8	501.7	3.77	73.29
17.0-18.0	684.4	22.6	524.2	3.30	76.59
18.0-19.0	562.7	19.6	543.8	2.86	79.45
19.0-20.0	461.0	16.9	560.7	2.47	81.91
20.0-21.0	377.4	14.5	575.2	2.12	84.03
21.0-22.0	309.0	12.4	587.6	1.81	85.84
22.0-23.0	253.0	10.6	598.2	1.55	87.40
23.0-24.0	207.4	9.1	607.3	1.32	88.72
24.0-25.0	170.9	7.8	615.1	1.14	89.86
25.0-26.0	141.7	6.7	621.8	0.98	90.83
26.0-27.0	118.3	5.8	627.5	0.85	91.68
27.0-28.0	99.7	5.0	632.6	0.74	92.42
28.0-29.0	84.9	4.4	637.0	0.65	93.06
29.0-30.0	73.1	3.9	641.0	0.58	93.64
30.0-31.0	63.7	3.5	644.5	0.52	94.16
31.0-32.0	55.9	3.2	647.7	0.47	94.63
32.0-33.0	49.2	2.9	650.6	0.42	95.05
33.0-34.0	43.7	2.6	653.3	0.39	95.44
34.0-35.0	39.3	2.4	655.7	0.36	95.79
35.0-36.0	35.6	2.3	658.0	0.33	96.12

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: 3.655 m
Humidity:
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	32.7	2.1	660.1	0.31	96.44
37.0-38.0	30.1	2.0	662.1	0.29	96.73
38.0-39.0	27.9	1.9	664.0	0.28	97.01
39.0-40.0	25.8	1.8	665.8	0.26	97.27
40.0-41.0	23.8	1.7	667.5	0.25	97.52
41.0-42.0	21.8	1.6	669.1	0.23	97.75
42.0-43.0	19.8	1.5	670.6	0.21	97.96
43.0-44.0	18.0	1.4	671.9	0.20	98.16
44.0-45.0	16.3	1.3	673.2	0.18	98.35
45.0-46.0	14.5	1.1	674.3	0.17	98.51
46.0-47.0	12.9	1.0	675.3	0.15	98.66
47.0-48.0	11.6	0.9	676.3	0.14	98.80
48.0-49.0	10.6	0.9	677.1	0.13	98.92
49.0-50.0	9.8	0.8	678.0	0.12	99.04
50.0-51.0	9.2	0.8	678.7	0.11	99.16
51.0-52.0	8.5	0.7	679.5	0.11	99.26
52.0-53.0	7.8	0.7	680.1	0.10	99.36
53.0-54.0	7.1	0.6	680.8	0.09	99.45
54.0-55.0	6.4	0.6	681.3	0.08	99.54
55.0-56.0	5.8	0.5	681.9	0.08	99.61
56.0-57.0	5.1	0.5	682.3	0.07	99.68
57.0-58.0	4.6	0.4	682.8	0.06	99.74
58.0-59.0	4.0	0.4	683.1	0.05	99.80
59.0-60.0	3.4	0.3	683.4	0.05	99.85
60.0-61.0	2.7	0.3	683.7	0.04	99.88
61.0-62.0	2.2	0.2	683.9	0.03	99.92
62.0-63.0	1.9	0.2	684.1	0.03	99.94
63.0-64.0	1.4	0.1	684.2	0.02	99.96
64.0-65.0	1.0	0.1	684.3	0.01	99.98
65.0-66.0	0.7	0.1	684.4	0.01	99.99
66.0-67.0	0.5	0.0	684.5	0.01	99.99
67.0-68.0	0.3	0.0	684.5	0.00	100.00
68.0-69.0	0.1	0.0	684.5	0.00	100.00
69.0-70.0	0.0	0.0	684.5	0.00	100.00
70.0-71.0	0.0	0.0	684.5	0.00	100.00
71.0-72.0	0.0	0.0	684.5	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: 3.655 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.655 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	3503.1	3503.1								
G1.0	3617.0	3364.4								
G2.0	3683.8	3202.7								
G3.0	3698.5	3023.1								
G4.0	3664.5	2819.5								
G5.0	3585.0	2598.6								
G6.0	3481.5	2364.0								
G7.0	3363.2	2120.1								
G8.0	3218.1	1868.8								
G9.0	3044.1	1625.0								
G10.0	2843.0	1390.5								
G11.0	2618.1	1171.3								
G12.0	2380.0	973.2								
G13.0	2133.1	797.4								
G14.0	1881.5	648.2								
G15.0	1631.9	522.8								
G16.0	1392.0	418.8								
G17.0	1167.5	333.2								
G18.0	970.9	265.8								
G19.0	801.0	212.9								
G20.0	656.3	173.7								
G21.0	535.6	143.9								
G22.0	435.1	121.4								
G23.0	351.7	103.6								
G24.0	285.0	89.3								
G25.0	231.8	77.6								
G26.0	189.9	67.5								
G27.0	156.9	58.7								
G28.0	131.3	51.7								
G29.0	110.8	45.8								
G30.0	95.1	40.7								
G31.0	82.2	36.8								
G32.0	71.1	33.4								
G33.0	61.5	30.7								
G34.0	54.2	28.5								
G35.0	48.1	26.4								
G36.0	43.1	24.9								

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: 3.655 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	39.4	23.4								
G38.0	35.9	21.7								
G39.0	33.4	20.4								
G40.0	31.1	18.3								
G41.0	29.2	16.5								
G42.0	27.3	14.4								
G43.0	24.7	13.0								
G44.0	22.3	12.0								
G45.0	19.9	10.9								
G46.0	17.1	10.0								
G47.0	14.8	9.6								
G48.0	13.2	8.8								
G49.0	12.1	8.1								
G50.0	11.5	7.6								
G51.0	10.6	6.9								
G52.0	10.0	6.3								
G53.0	9.3	5.7								
G54.0	8.5	4.8								
G55.0	8.1	4.2								
G56.0	7.2	3.6								
G57.0	6.6	3.1								
G58.0	6.0	2.7								
G59.0	5.1	2.3								
G60.0	4.3	1.8								
G61.0	3.9	0.9								
G62.0	3.4	0.8								
G63.0	2.8	0.4								
G64.0	2.3	0.0								
G65.0	1.6	0.0								
G66.0	1.2	0.0								
G67.0	0.6	0.0								
G68.0	0.4	0.0								
G69.0	0.2	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: 3.655 m

Humidity:

Inspector:

Unit: cd

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.655 m
Humidity:
Inspector: