

Report No.: 51.03022 Mini Recessed
Downlight

Test Time: 2024-10-13 18:38

Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.026 A

Power Factor: 0.579

Voltage: 237.6 V

Power: 3.60 W

Photometric Results

CIE Class: Direct

Measurement Flux: 230 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H24.2

Vertical Diffuse Angle(50%): V24.2

Luminaire Efficacy Rating (LER): 64

Max. Intensity: 1094.23 cd

Total Rated Lamp Lumens: 230.0 lm

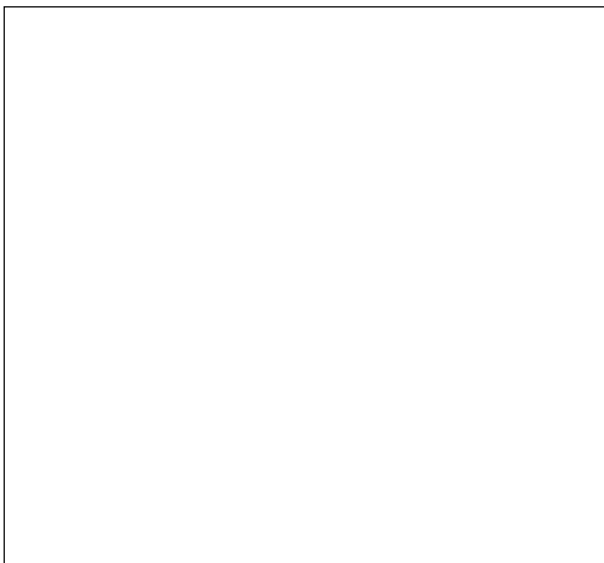
Efficiency: 100%

Upward Ratio: 0%

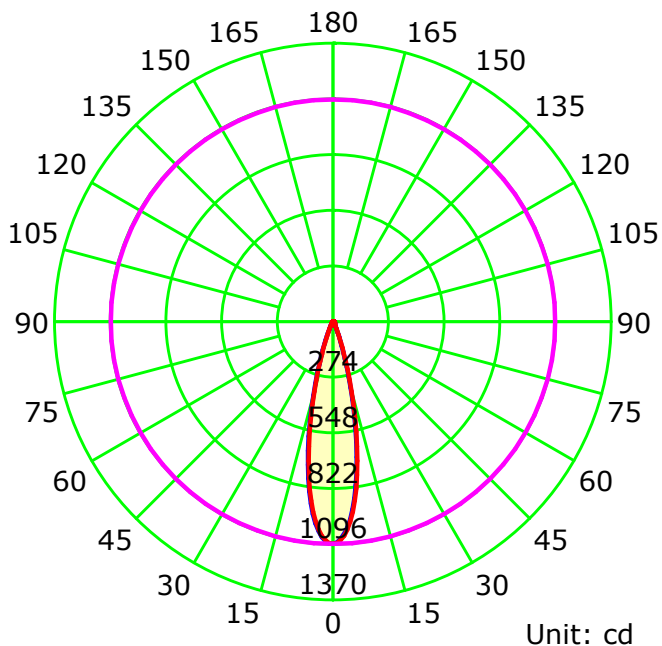
Central Intensity: 1094.23 cd

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

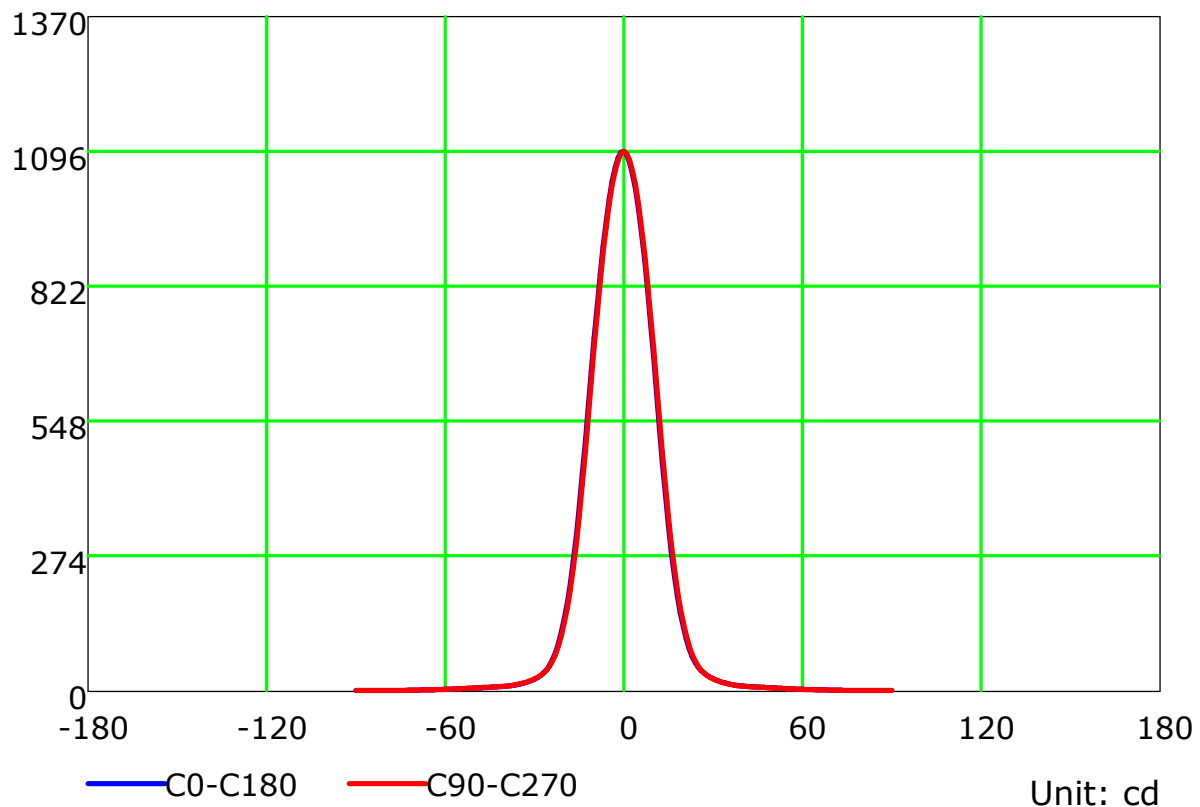
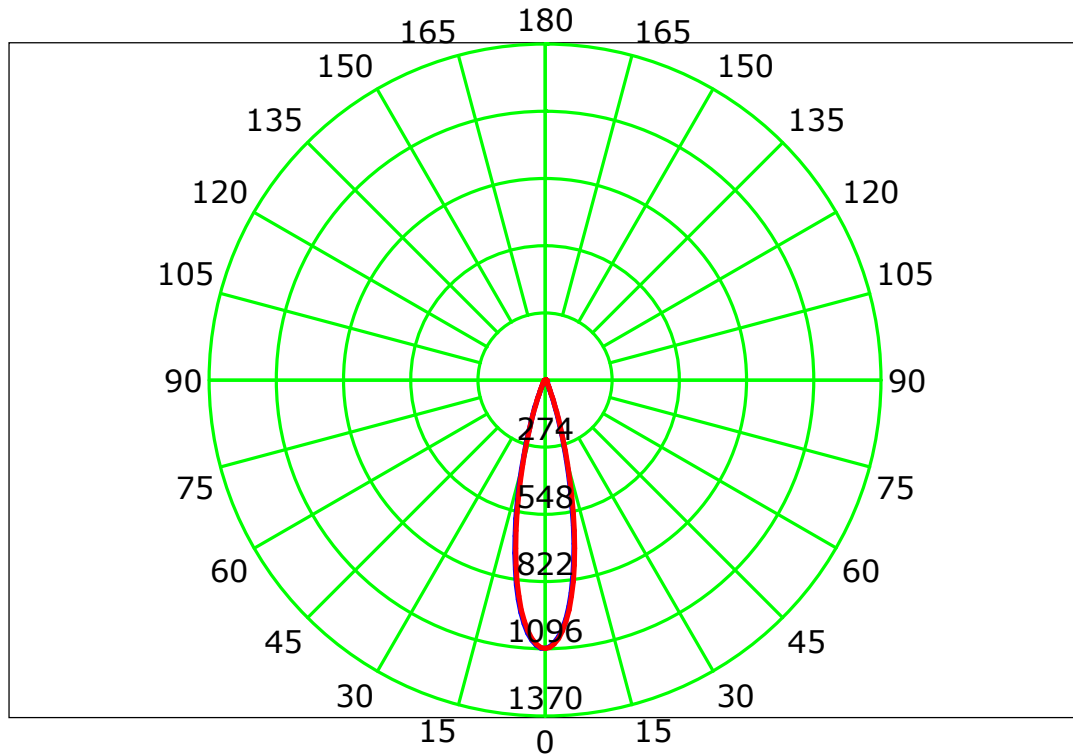
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

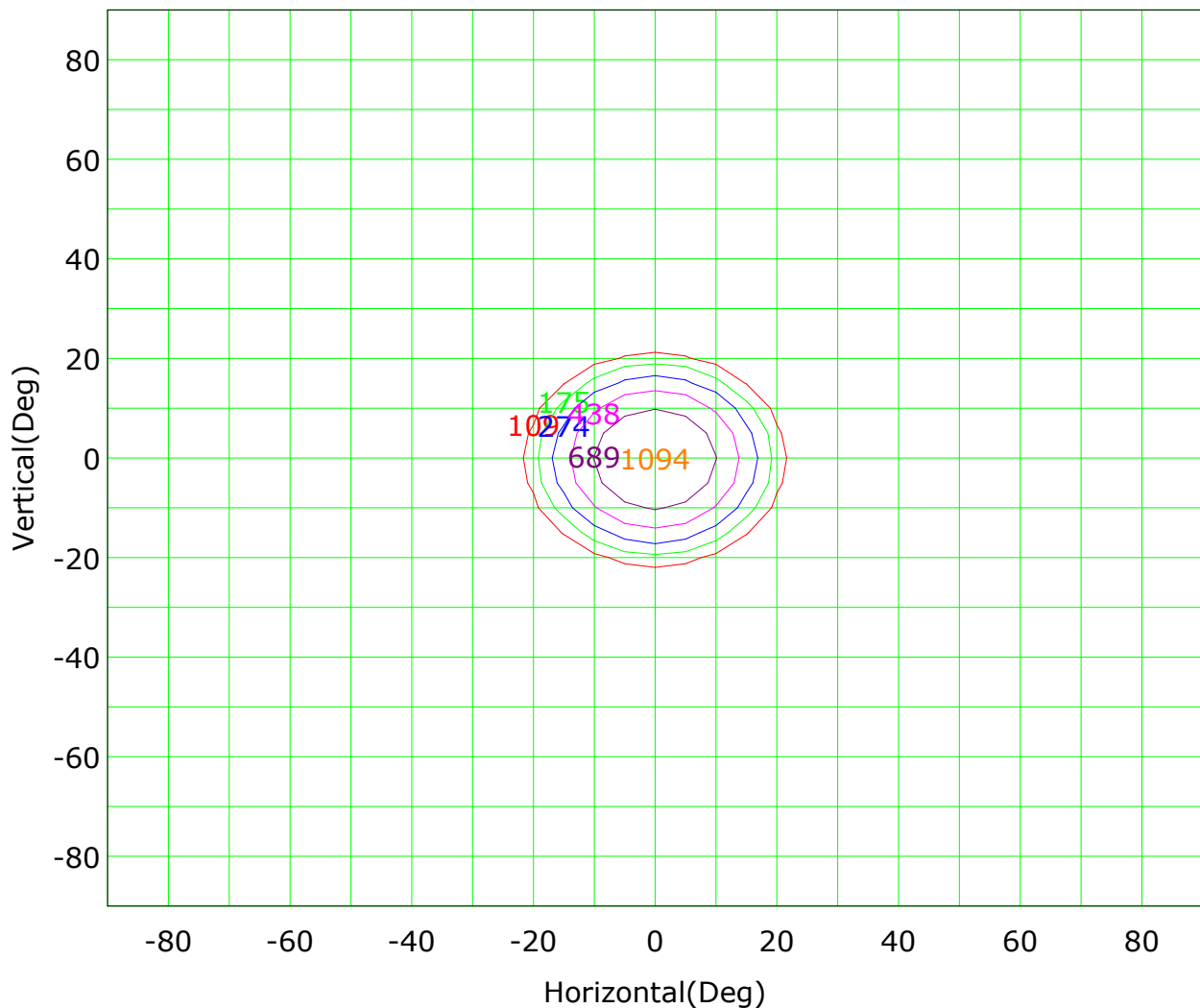
Luminous Intensity Distribution Curve



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%): 1094 cd

(10%): 109 cd	(16%): 175 cd
(25%): 274 cd	(40%): 438 cd
(63%): 689 cd	(100%): 1094 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

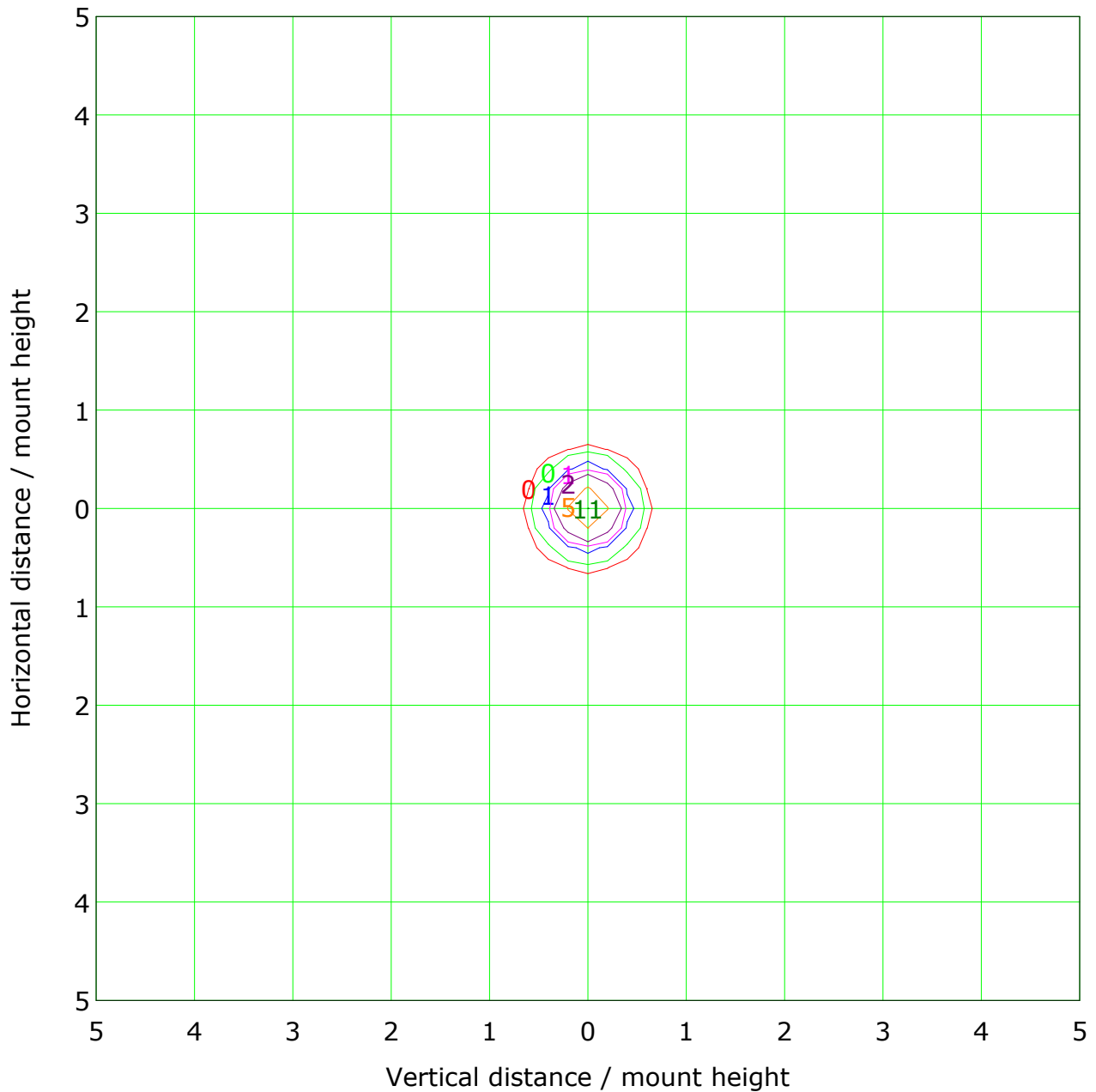
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

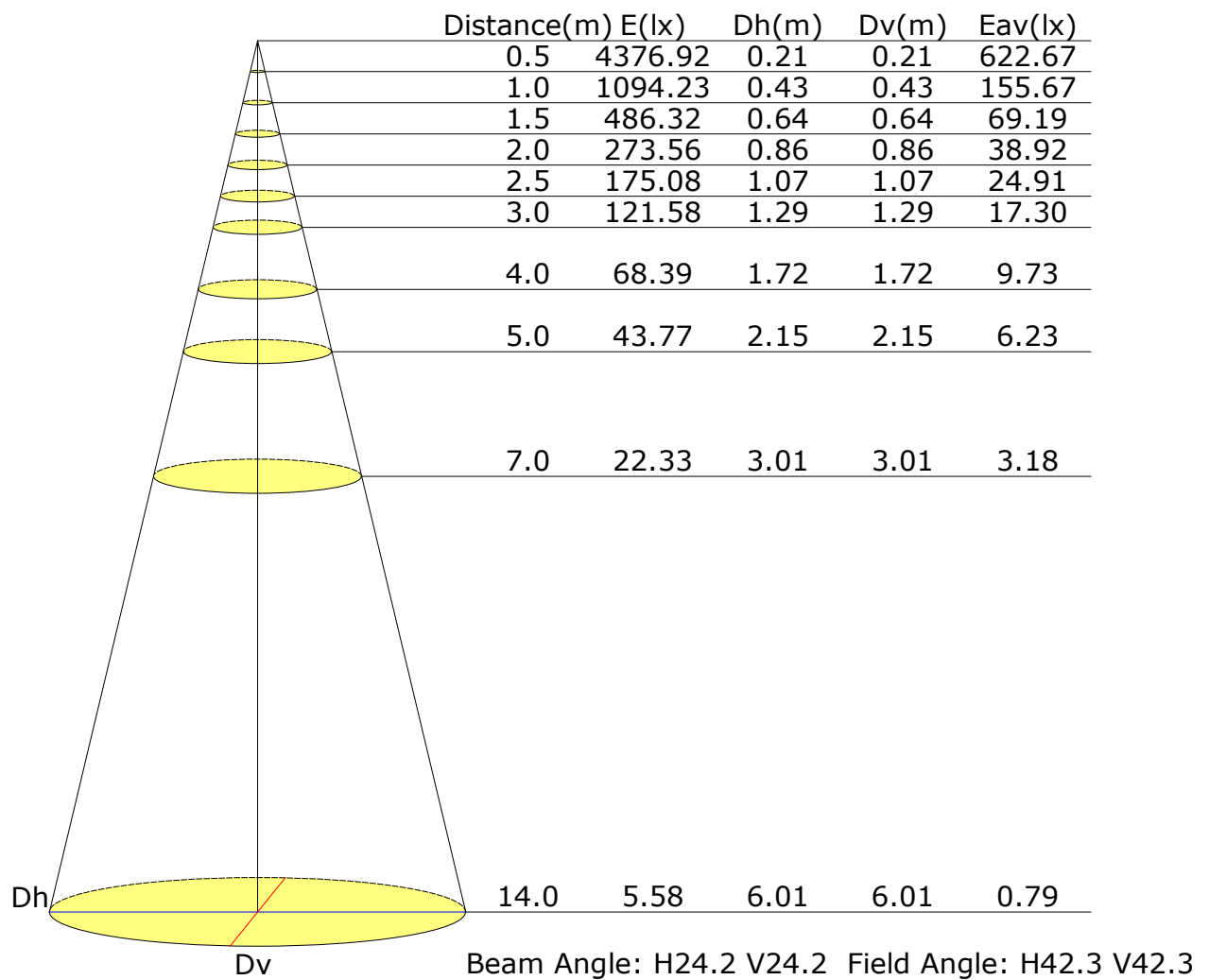


Mounting Height: 10m Max Lux(100%): 11 lx			
— (1%):	0 lx	— (2%):	0 lx
— (5%):	1 lx	— (10%):	1 lx
— (20%):	2 lx	— (50%):	5 lx
— (100%):	11 lx		

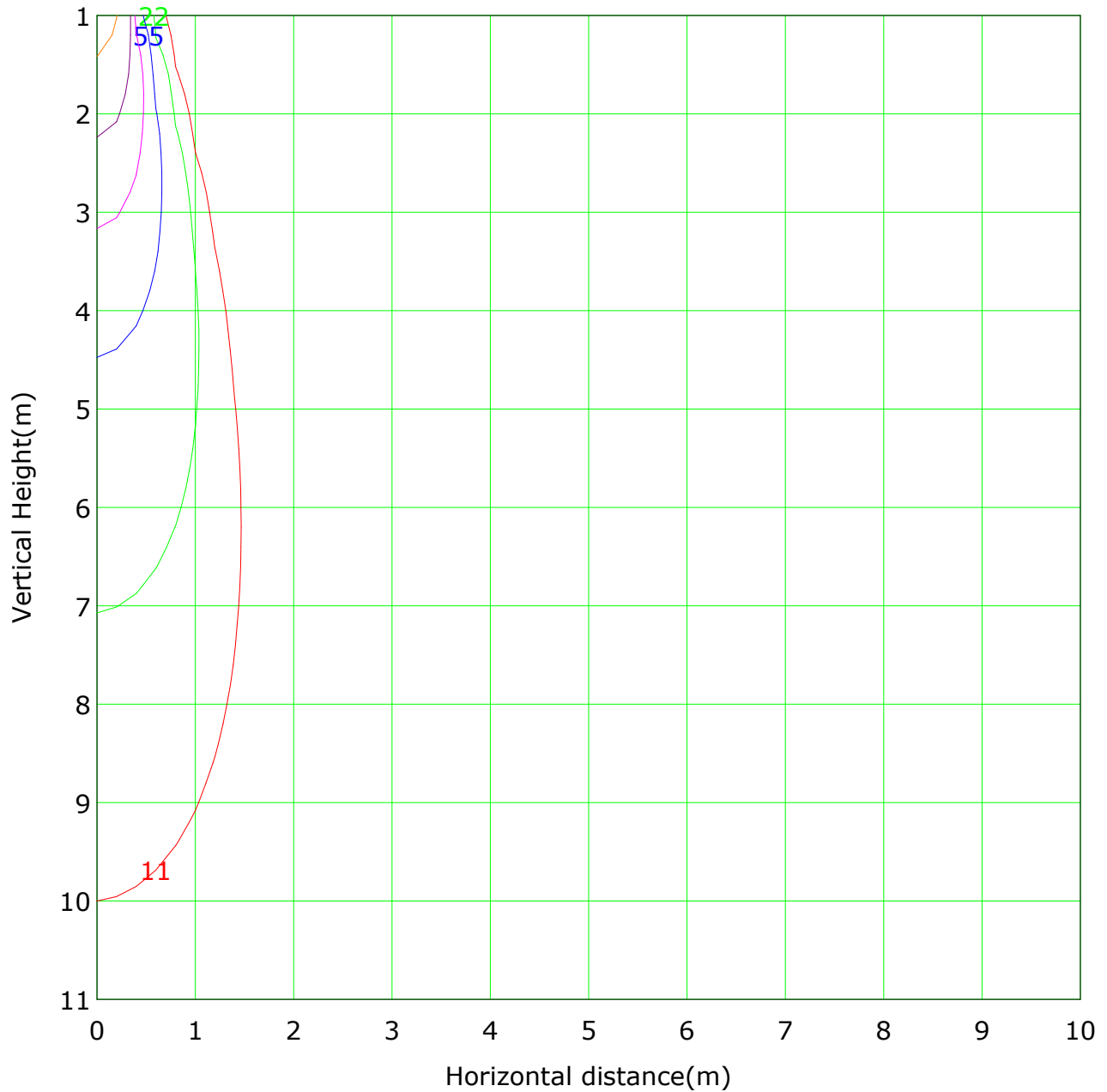
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



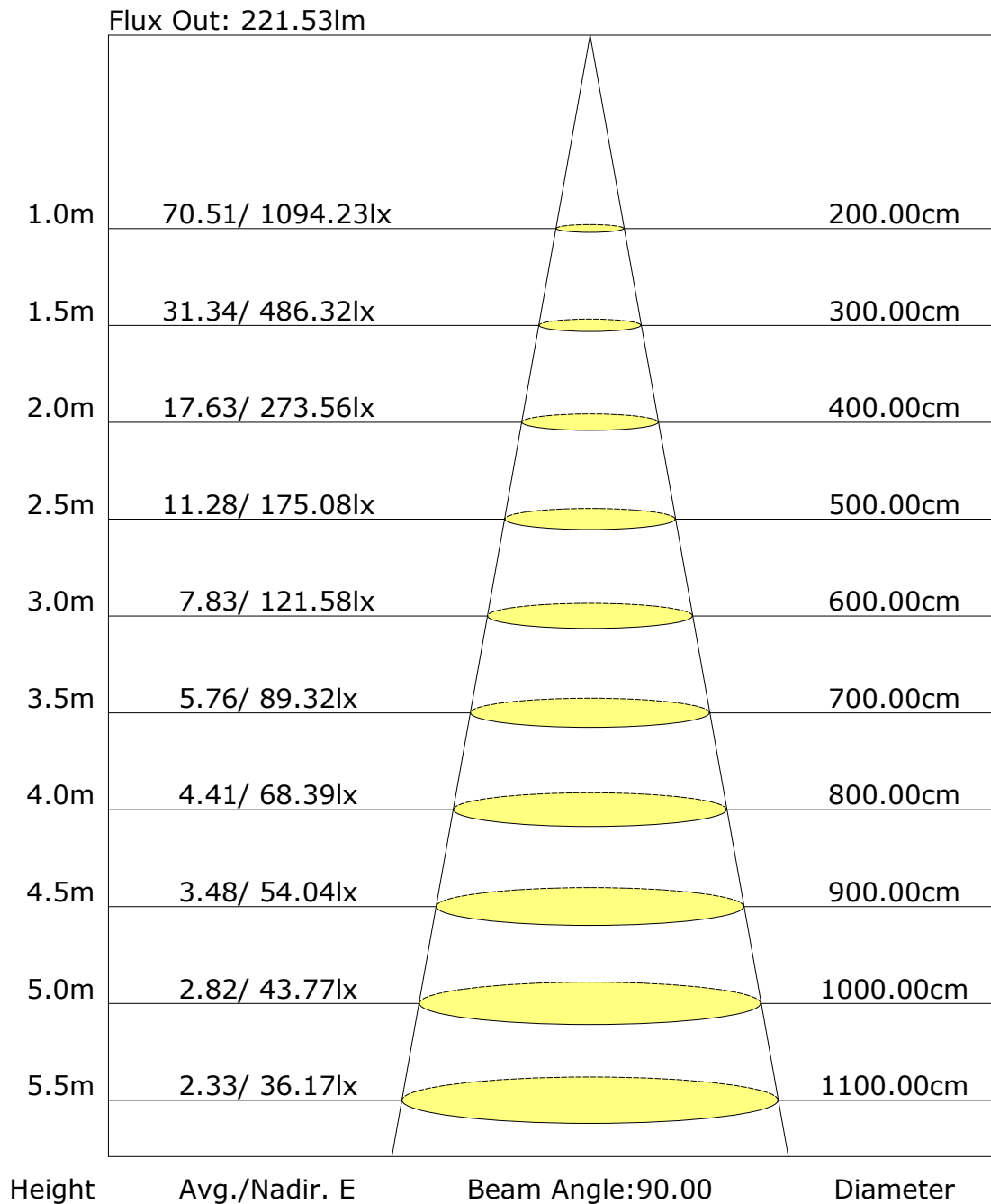
Lowest(m): 1m Highest(m): 11 Max Lux: 1094

(1%): 11 lx	(2%): 22 lx
(5%): 55 lx	(10%): 109 lx
(20%): 219 lx	(50%): 547 lx
(100%): 1094 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



Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1092.1	1.0	1.0	0.45	0.45
1.0-2.0	1083.2	3.1	4.2	1.35	1.81
2.0-3.0	1065.7	5.1	9.3	2.22	4.02
3.0-4.0	1039.9	7.0	16.2	3.03	7.05
4.0-5.0	1005.7	8.7	24.9	3.76	10.81
5.0-6.0	963.7	10.1	35.0	4.40	15.22
6.0-7.0	914.4	11.4	46.3	4.94	20.15
7.0-8.0	858.5	12.3	58.6	5.34	25.50
8.0-9.0	796.7	12.9	71.5	5.62	31.11
9.0-10.0	730.7	13.2	84.8	5.75	36.86
10.0-11.0	661.4	13.2	98.0	5.75	42.61
11.0-12.0	590.6	12.9	110.9	5.61	48.23
12.0-13.0	520.2	12.3	123.3	5.37	53.59
13.0-14.0	451.8	11.6	134.8	5.03	58.62
14.0-15.0	387.2	10.6	145.4	4.62	63.25
15.0-16.0	327.5	9.6	155.0	4.17	67.42
16.0-17.0	273.8	8.5	163.6	3.71	71.13
17.0-18.0	227.0	7.5	171.1	3.26	74.38
18.0-19.0	187.2	6.5	177.6	2.83	77.22
19.0-20.0	153.6	5.6	183.2	2.44	79.66
20.0-21.0	125.3	4.8	188.0	2.09	81.75
21.0-22.0	101.7	4.1	192.1	1.78	83.53
22.0-23.0	82.4	3.5	195.6	1.50	85.03
23.0-24.0	67.0	2.9	198.5	1.27	86.31
24.0-25.0	55.0	2.5	201.0	1.09	87.39
25.0-26.0	45.8	2.2	203.1	0.94	88.33
26.0-27.0	38.7	1.9	205.0	0.82	89.16
27.0-28.0	33.2	1.7	206.7	0.73	89.89
28.0-29.0	28.9	1.5	208.2	0.66	90.55
29.0-30.0	25.4	1.4	209.6	0.60	91.14
30.0-31.0	22.4	1.2	210.8	0.54	91.68
31.0-32.0	20.0	1.1	212.0	0.50	92.18
32.0-33.0	17.9	1.1	213.0	0.46	92.64
33.0-34.0	16.1	1.0	214.0	0.42	93.06
34.0-35.0	14.5	0.9	214.9	0.39	93.45
35.0-36.0	13.0	0.8	215.7	0.36	93.81

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	11.8	0.8	216.5	0.33	94.15
37.0-38.0	10.8	0.7	217.2	0.31	94.46
38.0-39.0	10.0	0.7	217.9	0.30	94.76
39.0-40.0	9.3	0.7	218.6	0.28	95.04
40.0-41.0	8.8	0.6	219.2	0.27	95.31
41.0-42.0	8.4	0.6	219.8	0.26	95.58
42.0-43.0	7.9	0.6	220.4	0.26	95.84
43.0-44.0	7.6	0.6	221.0	0.25	96.09
44.0-45.0	7.3	0.6	221.5	0.24	96.33
45.0-46.0	6.9	0.5	222.1	0.24	96.56
46.0-47.0	6.6	0.5	222.6	0.23	96.79
47.0-48.0	6.3	0.5	223.1	0.22	97.01
48.0-49.0	6.0	0.5	223.6	0.21	97.23
49.0-50.0	5.6	0.5	224.1	0.20	97.43
50.0-51.0	5.2	0.4	224.5	0.19	97.62
51.0-52.0	5.0	0.4	224.9	0.19	97.81
52.0-53.0	4.7	0.4	225.3	0.18	97.99
53.0-54.0	4.3	0.4	225.7	0.17	98.15
54.0-55.0	4.0	0.4	226.1	0.15	98.31
55.0-56.0	3.8	0.3	226.4	0.15	98.45
56.0-57.0	3.5	0.3	226.7	0.14	98.59
57.0-58.0	3.3	0.3	227.0	0.13	98.73
58.0-59.0	3.0	0.3	227.3	0.12	98.85
59.0-60.0	2.9	0.3	227.6	0.12	98.96
60.0-61.0	2.7	0.3	227.8	0.11	99.07
61.0-62.0	2.4	0.2	228.1	0.10	99.17
62.0-63.0	2.1	0.2	228.3	0.09	99.26
63.0-64.0	2.0	0.2	228.5	0.08	99.35
64.0-65.0	1.8	0.2	228.6	0.08	99.43
65.0-66.0	1.7	0.2	228.8	0.07	99.50
66.0-67.0	1.5	0.2	229.0	0.07	99.57
67.0-68.0	1.4	0.1	229.1	0.06	99.63
68.0-69.0	1.3	0.1	229.2	0.06	99.68
69.0-70.0	1.1	0.1	229.4	0.05	99.73
70.0-71.0	1.0	0.1	229.5	0.04	99.78
71.0-72.0	0.8	0.1	229.5	0.04	99.82

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	1094.2	1094.2								
G1.0	1087.2	1092.9								
G2.0	1071.4	1081.6								
G3.0	1047.8	1062.1								
G4.0	1016.0	1033.5								
G5.0	975.9	997.3								
G6.0	928.6	952.8								
G7.0	874.5	901.7								
G8.0	813.7	844.1								
G9.0	747.5	781.8								
G10.0	677.7	716.0								
G11.0	604.5	647.4								
G12.0	532.6	577.9								
G13.0	462.9	507.3								
G14.0	397.3	439.6								
G15.0	335.9	375.9								
G16.0	281.2	317.1								
G17.0	232.6	264.4								
G18.0	192.2	218.9								
G19.0	157.9	180.0								
G20.0	128.9	147.5								
G21.0	104.5	120.2								
G22.0	84.5	97.5								
G23.0	69.0	78.5								
G24.0	57.0	63.6								
G25.0	47.8	51.7								
G26.0	40.8	42.7								
G27.0	35.4	35.9								
G28.0	30.8	30.7								
G29.0	27.4	26.7								
G30.0	24.2	23.3								
G31.0	21.7	20.5								
G32.0	19.5	18.3								
G33.0	17.5	16.3								
G34.0	15.9	14.6								
G35.0	14.1	13.2								
G36.0	12.8	11.9								

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: 3.328 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	11.6	10.9								
G38.0	10.7	9.9								
G39.0	9.9	9.3								
G40.0	9.3	8.8								
G41.0	8.9	8.3								
G42.0	8.3	7.9								
G43.0	7.9	7.6								
G44.0	7.6	7.3								
G45.0	7.3	6.9								
G46.0	6.9	6.5								
G47.0	6.7	6.3								
G48.0	6.3	5.8								
G49.0	6.0	5.7								
G50.0	5.5	5.2								
G51.0	5.2	5.0								
G52.0	5.0	4.7								
G53.0	4.7	4.5								
G54.0	4.2	4.0								
G55.0	3.8	3.8								
G56.0	3.6	3.7								
G57.0	3.3	3.5								
G58.0	3.2	3.0								
G59.0	2.9	2.9								
G60.0	3.0	2.7								
G61.0	2.5	2.5								
G62.0	2.2	2.2								
G63.0	2.0	2.0								
G64.0	2.0	1.9								
G65.0	1.9	1.6								
G66.0	1.6	1.7								
G67.0	1.4	1.4								
G68.0	1.4	1.4								
G69.0	1.2	1.1								
G70.0	1.2	1.0								
G71.0	1.0	0.7								
G72.0	0.9	0.7								
G73.0	0.9	0.6								

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: