

Report No.: 60.04012 Mini Recessed
Downlight

Test Time: 2024-10-13 18:29

Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.047 A

Power Factor: 0.679

Voltage: 238.9 V

Power: 7.60 W

Photometric Results

CIE Class: Direct

Measurement Flux: 397.6 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H54.1

Vertical Diffuse Angle(50%): V54.1

Luminaire Efficacy Rating (LER): 52

Max. Intensity: 481.58 cd

Total Rated Lamp Lumens: 397.6 lm

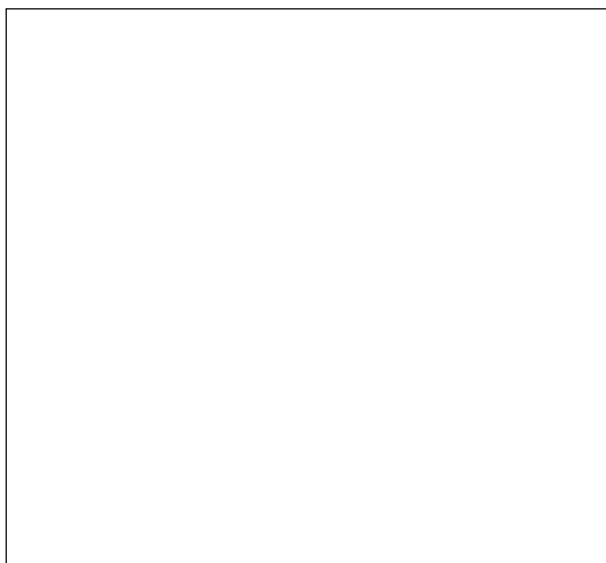
Efficiency: 100%

Upward Ratio: 0%

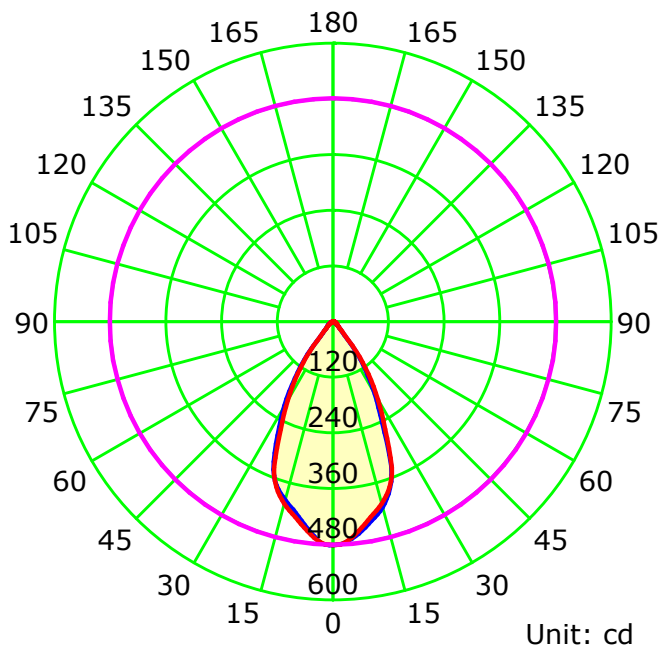
Central Intensity: 481.44 cd

Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G1

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

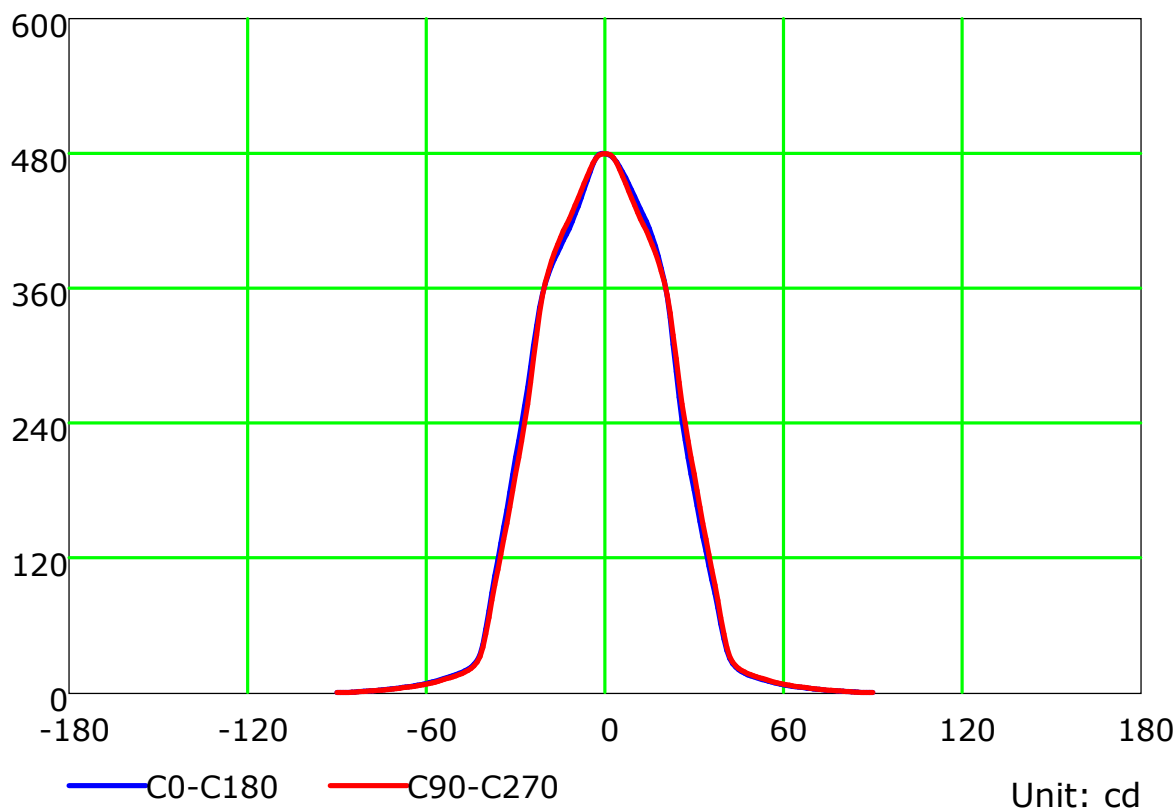
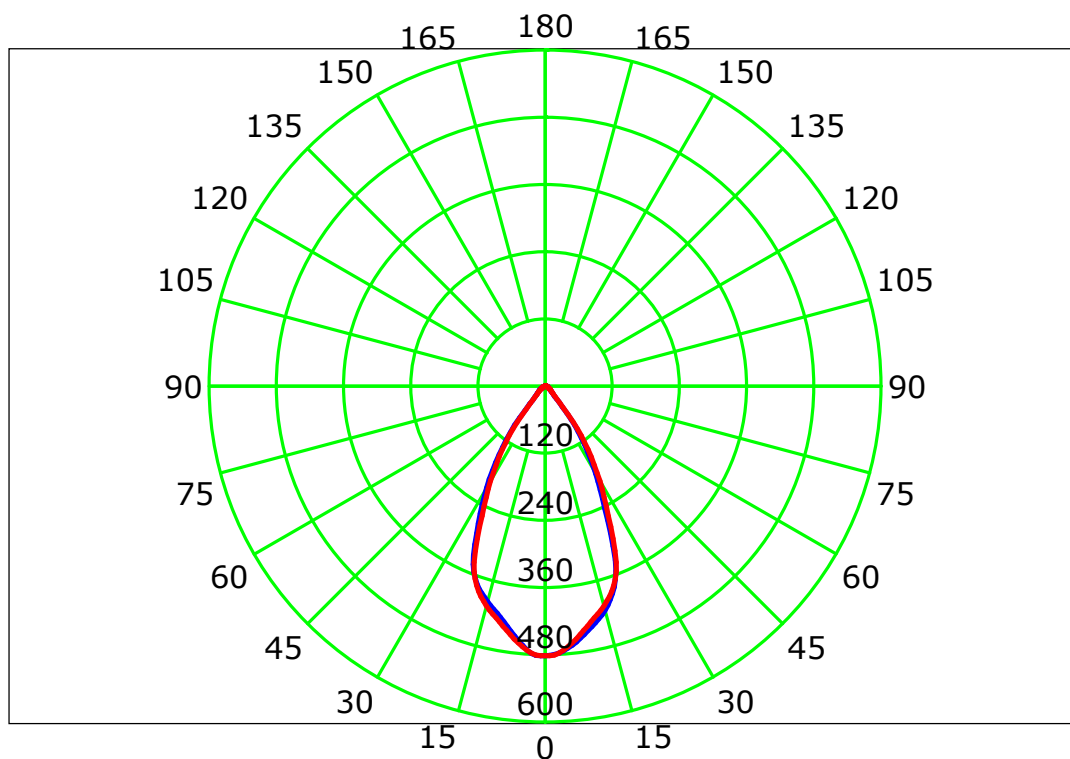
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

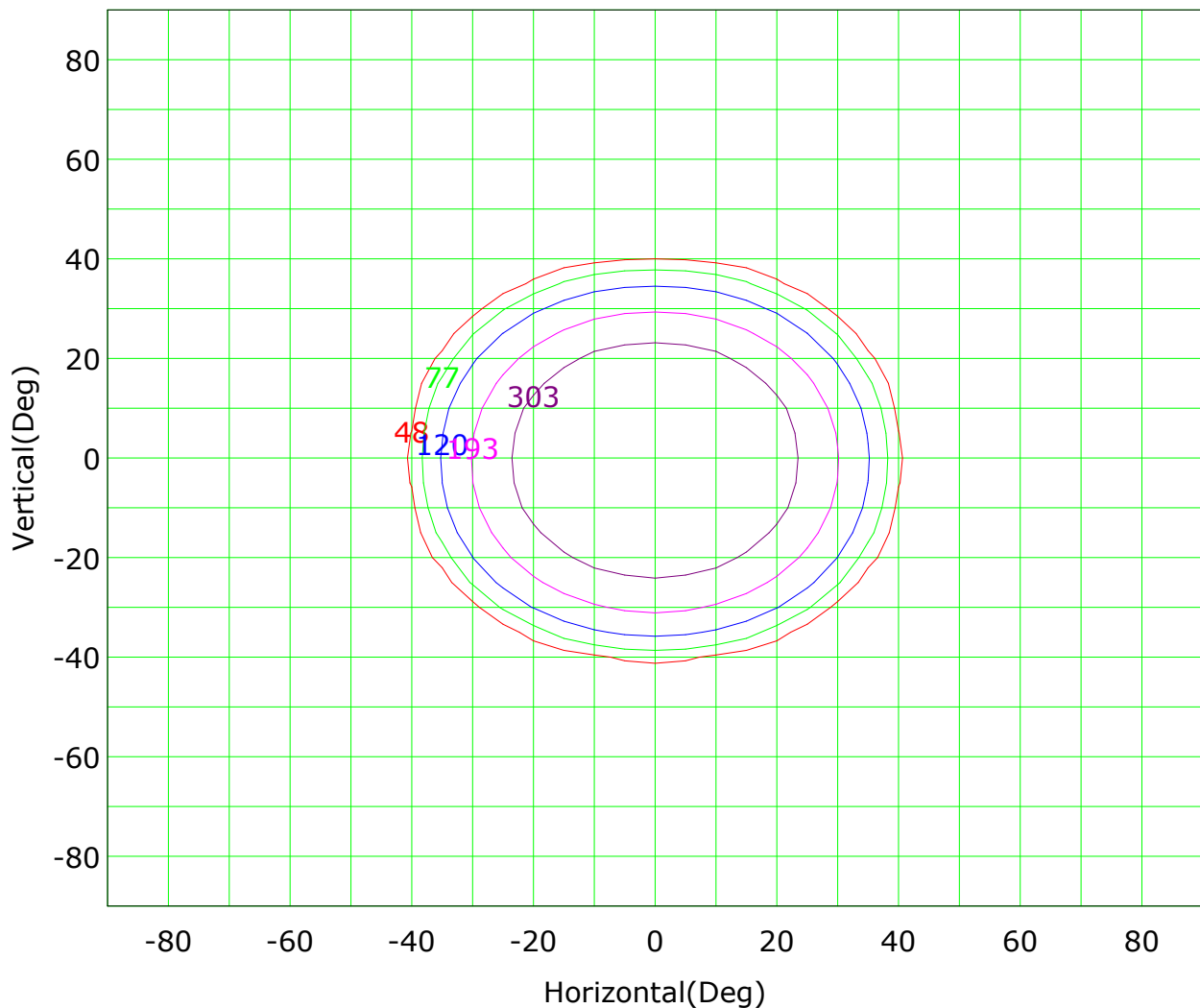
Luminous Intensity Distribution Curve



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%): 482 cd

(10%):	48 cd	(16%):	77 cd
(25%):	120 cd	(40%):	193 cd
(63%):	303 cd	(100%):	482 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

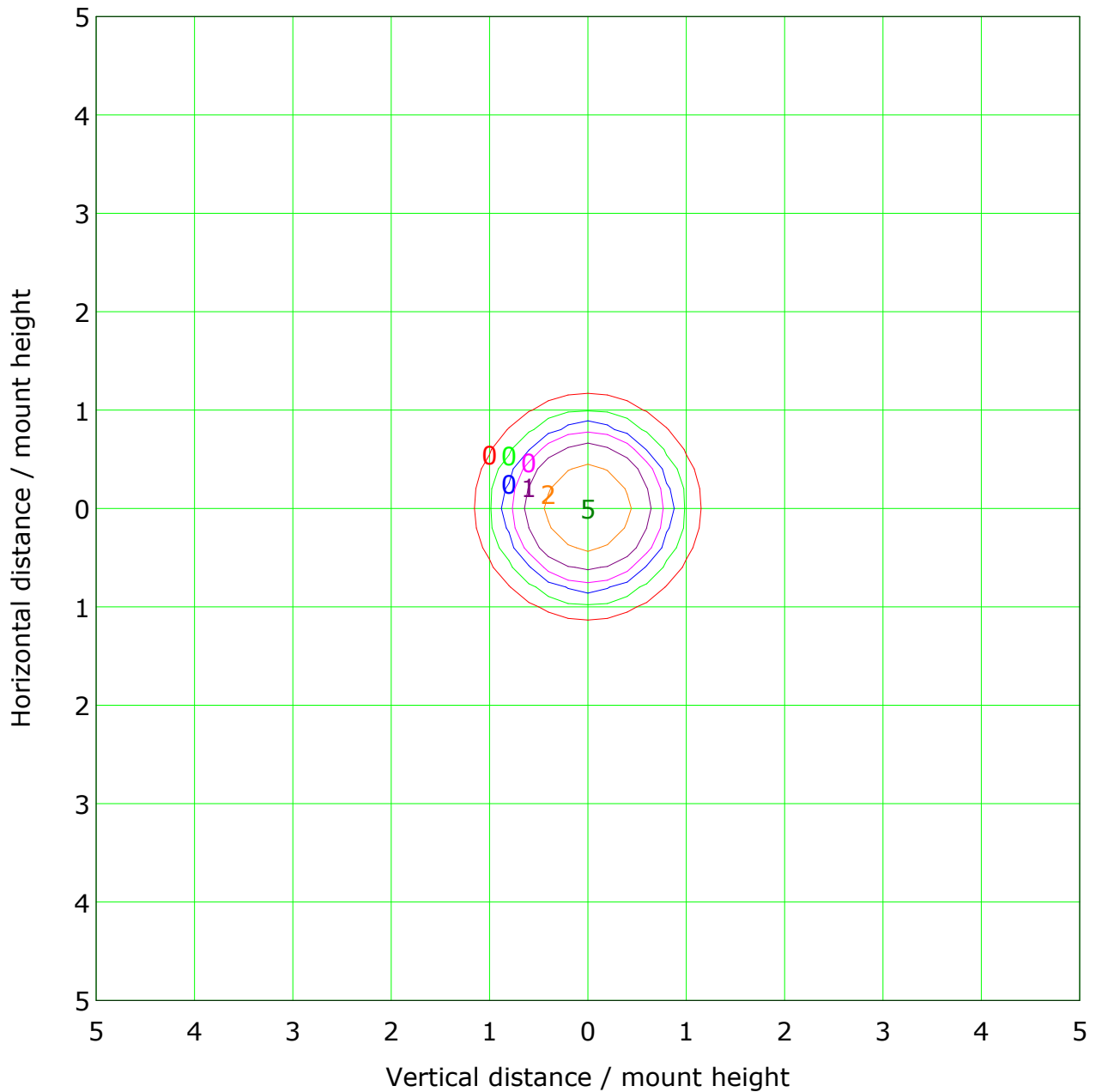
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

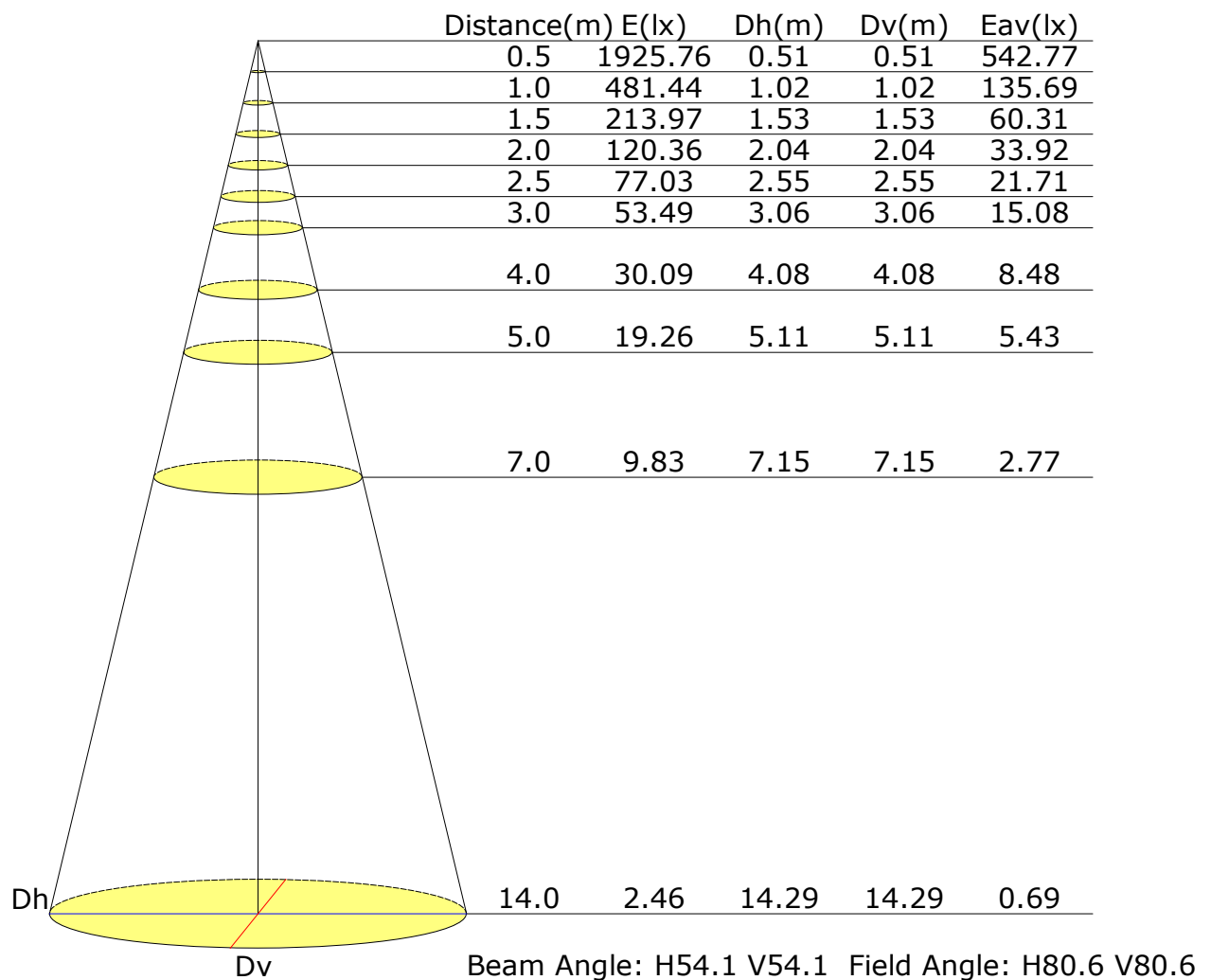


Mounting Height: 10m		Max Lux(100%): 5 lx	
(1%):	0 lx	(2%):	0 lx
(5%):	0 lx	(10%):	0 lx
(20%):	1 lx	(50%):	2 lx
(100%):	5 lx		

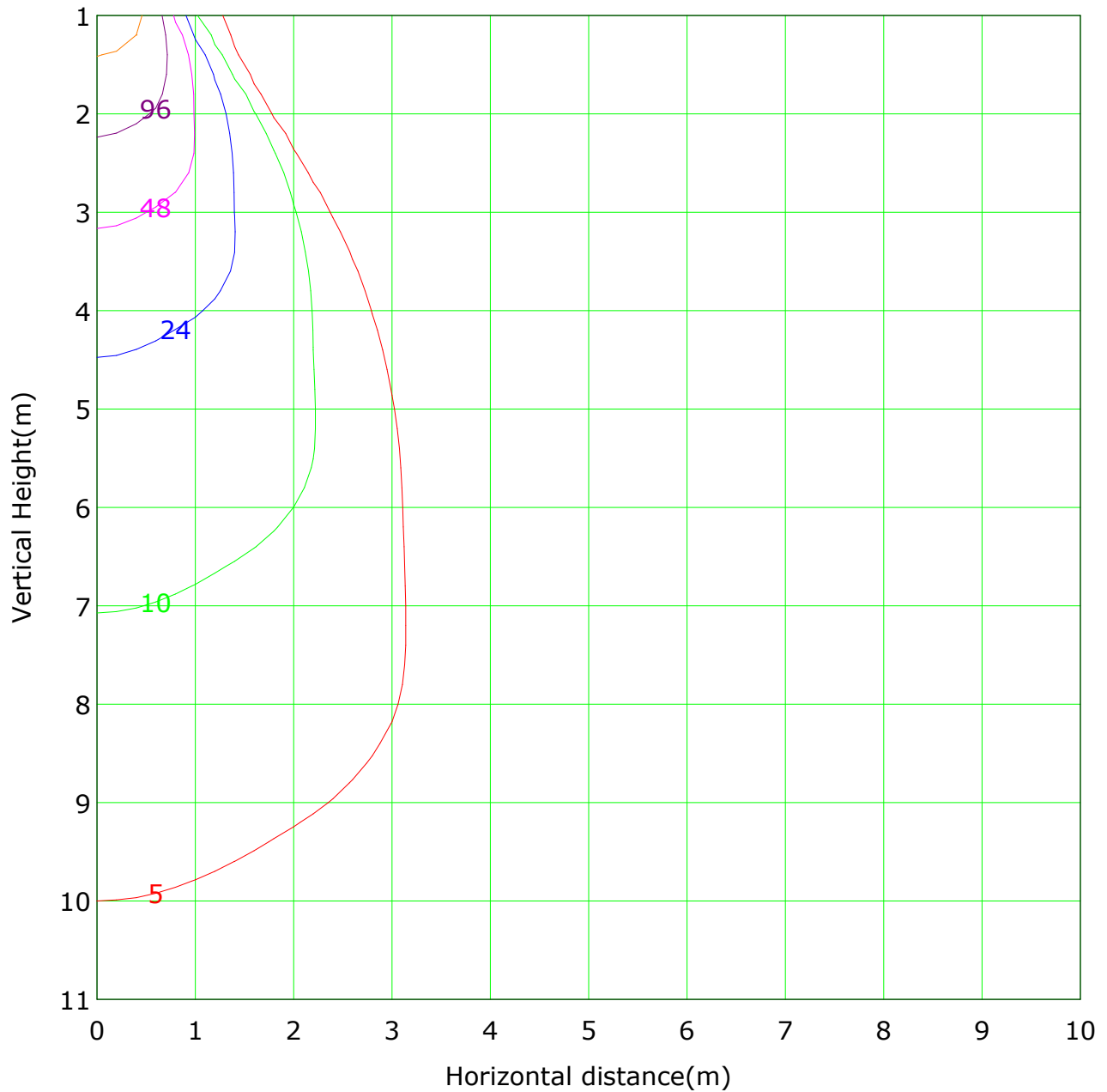
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



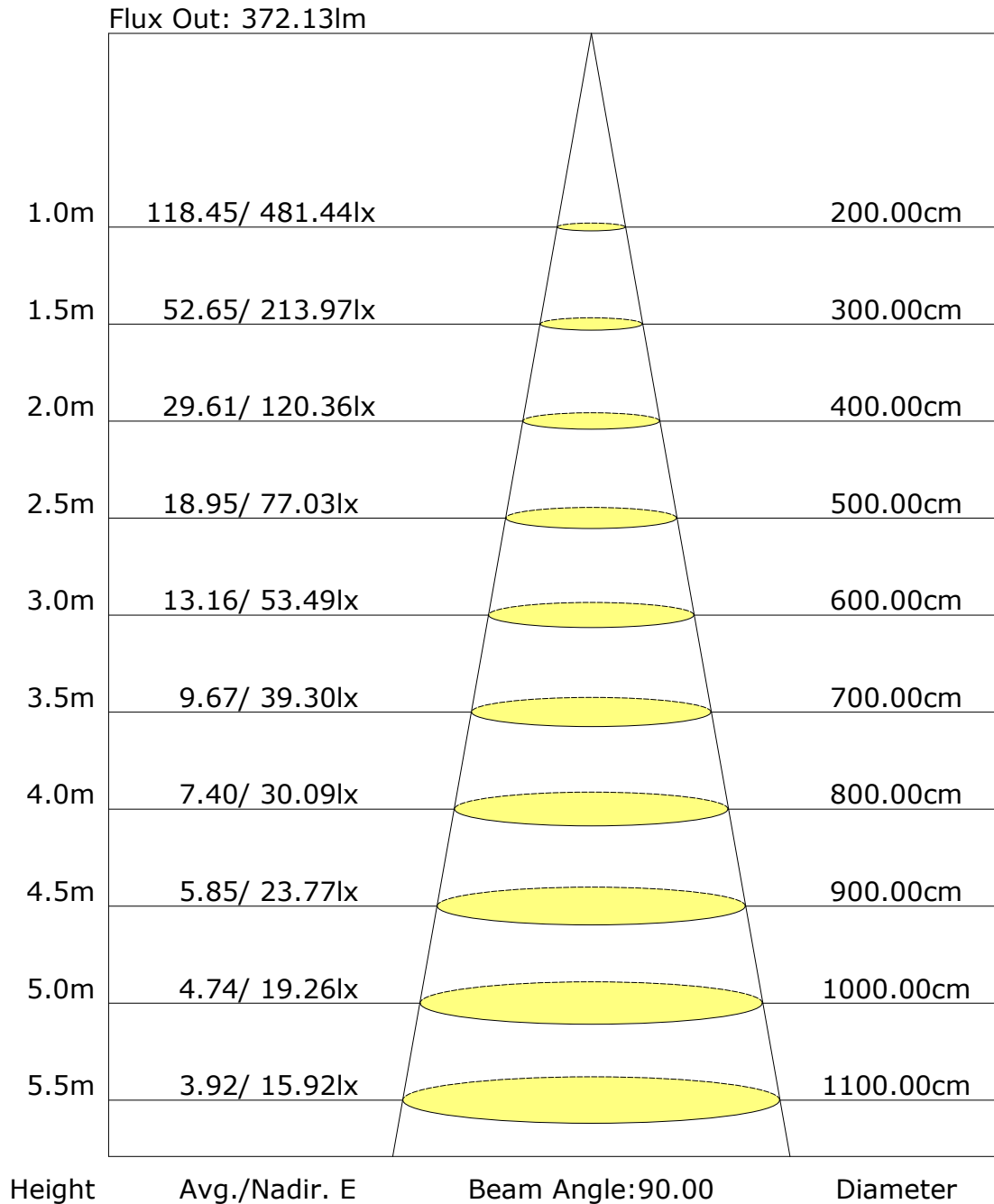
Lowest(m): 1m Highest(m): 11 Max Lux: 481

(1%): 5 lx	(2%): 10 lx
(5%): 24 lx	(10%): 48 lx
(20%): 96 lx	(50%): 241 lx
(100%): 481 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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	481.4	0.5	0.5	0.12	0.12
1.0-2.0	480.8	1.4	1.8	0.35	0.46
2.0-3.0	479.0	2.3	4.1	0.58	1.04
3.0-4.0	475.4	3.2	7.3	0.80	1.84
4.0-5.0	470.2	4.0	11.4	1.02	2.86
5.0-6.0	464.3	4.9	16.2	1.23	4.08
6.0-7.0	458.1	5.7	21.9	1.43	5.52
7.0-8.0	451.6	6.5	28.4	1.63	7.14
8.0-9.0	445.1	7.2	35.6	1.81	8.96
9.0-10.0	438.6	7.9	43.5	2.00	10.95
10.0-11.0	432.2	8.6	52.2	2.17	13.12
11.0-12.0	426.1	9.3	61.5	2.34	15.47
12.0-13.0	420.5	10.0	71.5	2.51	17.98
13.0-14.0	415.1	10.6	82.1	2.67	20.65
14.0-15.0	409.4	11.2	93.3	2.83	23.48
15.0-16.0	403.1	11.8	105.2	2.97	26.45
16.0-17.0	396.4	12.3	117.5	3.11	29.55
17.0-18.0	389.1	12.8	130.3	3.23	32.78
18.0-19.0	380.9	13.3	143.6	3.33	36.11
19.0-20.0	371.6	13.6	157.2	3.42	39.54
20.0-21.0	360.6	13.9	171.0	3.48	43.02
21.0-22.0	347.1	13.9	185.0	3.51	46.53
22.0-23.0	329.4	13.8	198.8	3.48	50.00
23.0-24.0	308.8	13.5	212.3	3.40	53.40
24.0-25.0	287.7	13.1	225.4	3.29	56.69
25.0-26.0	267.6	12.6	238.0	3.18	59.87
26.0-27.0	249.3	12.2	250.2	3.07	62.94
27.0-28.0	232.8	11.8	262.0	2.97	65.90
28.0-29.0	217.5	11.4	273.4	2.86	68.76
29.0-30.0	202.8	11.0	284.4	2.75	71.52
30.0-31.0	188.1	10.5	294.8	2.63	74.15
31.0-32.0	173.2	9.9	304.8	2.50	76.65
32.0-33.0	158.5	9.3	314.1	2.35	79.00
33.0-34.0	144.1	8.7	322.8	2.19	81.19
34.0-35.0	130.2	8.1	330.9	2.03	83.23
35.0-36.0	116.6	7.4	338.3	1.87	85.09

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	103.1	6.7	345.1	1.69	86.78
37.0-38.0	89.3	6.0	351.0	1.50	88.28
38.0-39.0	74.8	5.1	356.1	1.28	89.57
39.0-40.0	59.8	4.2	360.3	1.05	90.62
40.0-41.0	46.4	3.3	363.6	0.83	91.45
41.0-42.0	36.3	2.6	366.2	0.66	92.11
42.0-43.0	29.8	2.2	368.4	0.55	92.67
43.0-44.0	25.7	1.9	370.4	0.49	93.15
44.0-45.0	22.8	1.8	372.1	0.44	93.59
45.0-46.0	20.7	1.6	373.8	0.41	94.00
46.0-47.0	19.2	1.5	375.3	0.38	94.38
47.0-48.0	17.8	1.4	376.7	0.36	94.75
48.0-49.0	16.6	1.4	378.1	0.34	95.09
49.0-50.0	15.6	1.3	379.4	0.33	95.42
50.0-51.0	14.7	1.2	380.6	0.31	95.73
51.0-52.0	13.8	1.2	381.8	0.30	96.03
52.0-53.0	13.0	1.1	382.9	0.29	96.31
53.0-54.0	12.2	1.1	384.0	0.27	96.58
54.0-55.0	11.4	1.0	385.0	0.26	96.84
55.0-56.0	10.6	1.0	386.0	0.24	97.08
56.0-57.0	9.8	0.9	386.9	0.23	97.31
57.0-58.0	9.1	0.8	387.7	0.21	97.52
58.0-59.0	8.5	0.8	388.5	0.20	97.72
59.0-60.0	7.9	0.7	389.3	0.19	97.91
60.0-61.0	7.3	0.7	390.0	0.18	98.08
61.0-62.0	6.8	0.7	390.6	0.17	98.25
62.0-63.0	6.4	0.6	391.3	0.16	98.40
63.0-64.0	5.9	0.6	391.8	0.15	98.55
64.0-65.0	5.5	0.5	392.4	0.14	98.69
65.0-66.0	5.2	0.5	392.9	0.13	98.81
66.0-67.0	4.8	0.5	393.4	0.12	98.94
67.0-68.0	4.5	0.5	393.8	0.11	99.05
68.0-69.0	4.2	0.4	394.3	0.11	99.16
69.0-70.0	3.8	0.4	394.6	0.10	99.26
70.0-71.0	3.4	0.4	395.0	0.09	99.34
71.0-72.0	3.1	0.3	395.3	0.08	99.43

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	481.4	481.4								
G1.0	481.0	481.6								
G2.0	479.7	481.0								
G3.0	477.4	478.0								
G4.0	474.0	472.3								
G5.0	469.6	465.1								
G6.0	465.1	457.6								
G7.0	460.1	449.8								
G8.0	454.6	442.1								
G9.0	449.2	434.5								
G10.0	443.2	427.6								
G11.0	437.3	420.7								
G12.0	432.0	414.4								
G13.0	426.5	409.3								
G14.0	420.9	404.0								
G15.0	414.4	398.3								
G16.0	407.1	392.8								
G17.0	398.6	387.1								
G18.0	389.6	381.0								
G19.0	379.1	374.1								
G20.0	367.4	365.7								
G21.0	353.6	355.9								
G22.0	335.1	343.8								
G23.0	311.0	327.9								
G24.0	286.7	309.9								
G25.0	263.8	290.6								
G26.0	243.1	272.8								
G27.0	225.6	255.9								
G28.0	209.8	240.1								
G29.0	195.3	224.9								
G30.0	181.0	210.1								
G31.0	166.9	194.5								
G32.0	152.8	178.8								
G33.0	139.0	163.3								
G34.0	126.1	148.0								
G35.0	113.2	133.5								
G36.0	100.9	118.8								

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	88.4	104.2								
G38.0	75.6	89.1								
G39.0	61.2	73.1								
G40.0	47.9	56.9								
G41.0	37.7	43.1								
G42.0	30.5	33.9								
G43.0	26.0	28.7								
G44.0	22.8	25.2								
G45.0	20.4	22.8								
G46.0	18.8	21.0								
G47.0	17.3	19.6								
G48.0	15.9	18.3								
G49.0	14.9	17.3								
G50.0	14.0	16.3								
G51.0	13.3	15.3								
G52.0	12.4	14.4								
G53.0	11.7	13.7								
G54.0	10.9	12.7								
G55.0	10.1	11.9								
G56.0	9.6	10.9								
G57.0	8.7	10.1								
G58.0	8.1	9.6								
G59.0	7.6	8.9								
G60.0	7.1	8.1								
G61.0	6.5	7.7								
G62.0	6.1	7.1								
G63.0	5.7	6.6								
G64.0	5.2	6.1								
G65.0	5.0	5.7								
G66.0	4.6	5.3								
G67.0	4.3	5.0								
G68.0	4.0	4.7								
G69.0	3.7	4.2								
G70.0	3.2	4.0								
G71.0	3.0	3.5								
G72.0	2.9	3.2								
G73.0	2.6	3.0								

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: