

Report No.: 51.03022 Mini Recessed
Downlight

Test Time: 2024-10-13 18:40

Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.028 A

Power Factor: 0.544

Voltage: 234.7 V

Power: 3.60 W

Photometric Results

CIE Class: Direct

Measurement Flux: 194.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H19

Vertical Diffuse Angle(50%): V19

Luminaire Efficacy Rating (LER): 54

Max. Intensity: 1271.77 cd

Total Rated Lamp Lumens: 194.1 lm

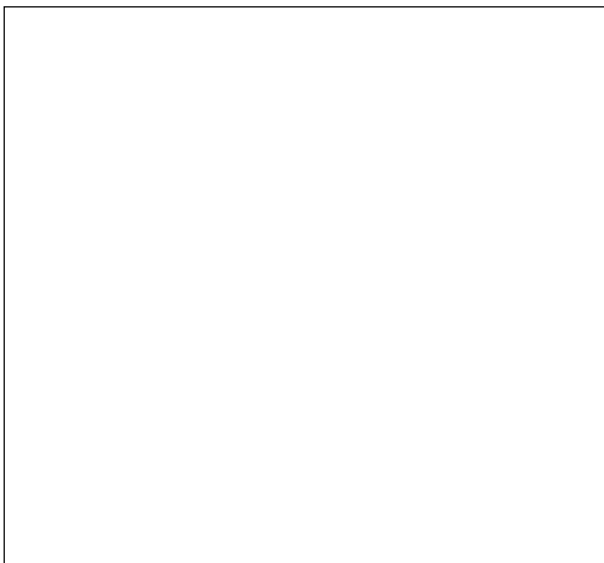
Efficiency: 100%

Upward Ratio: 0%

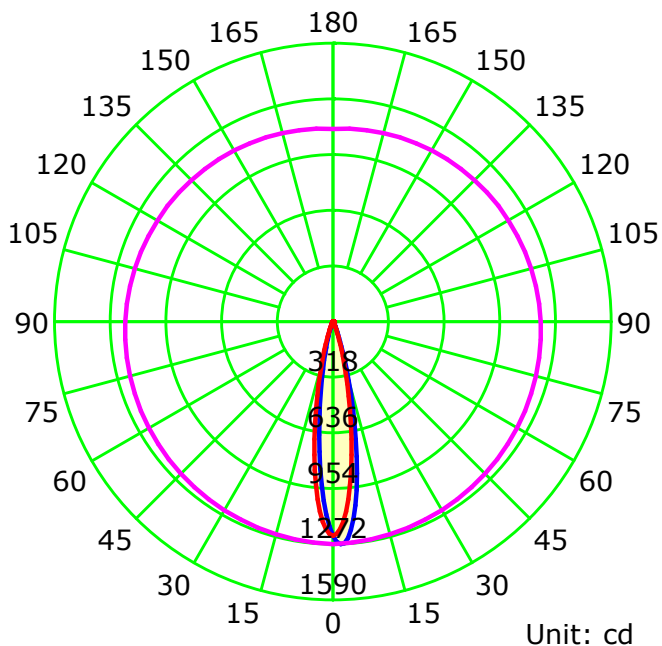
Central Intensity: 1222.72 cd

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

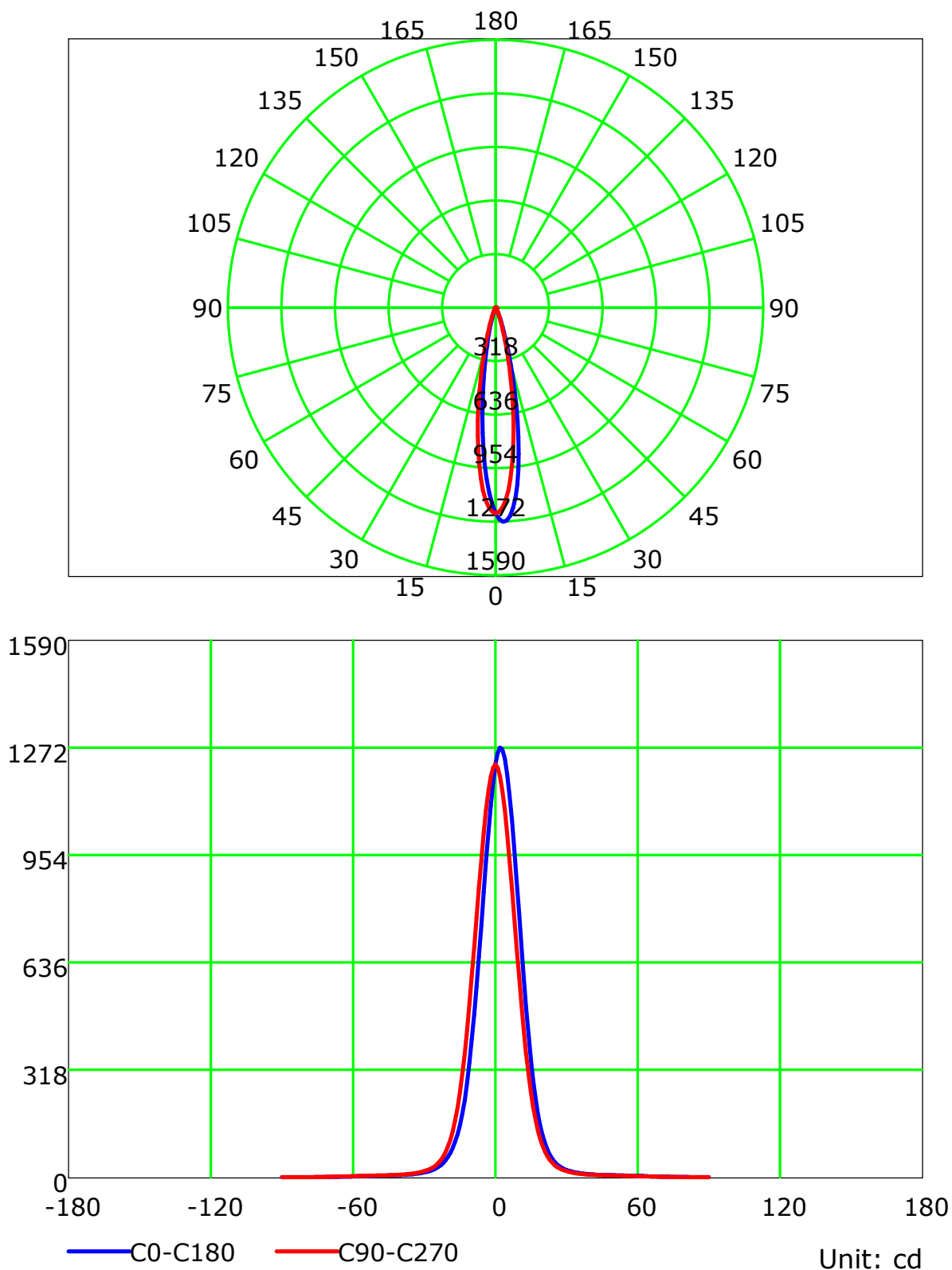
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

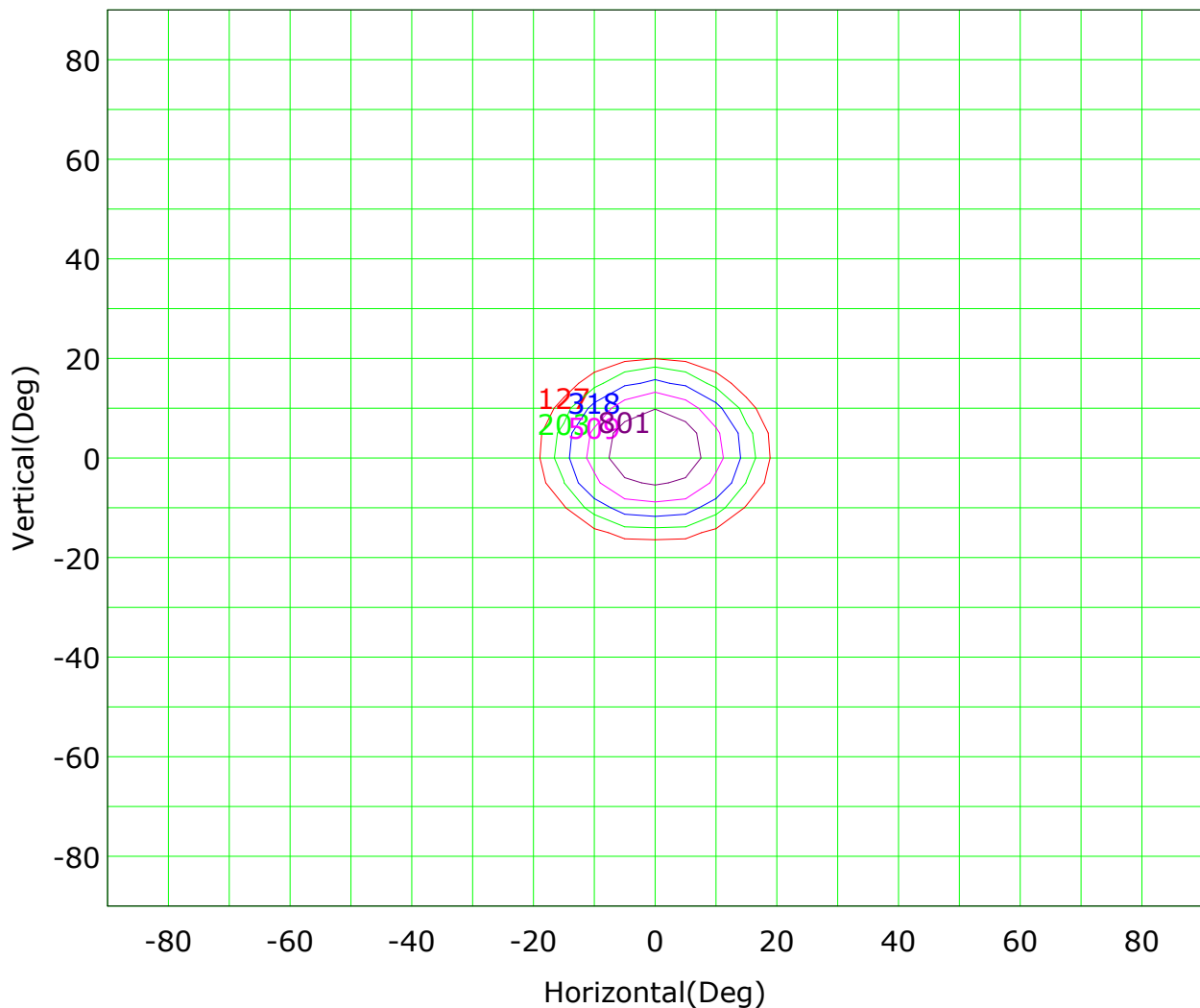
Luminous Intensity Distribution Curve



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%): 1272 cd

(10%): 127 cd	(16%): 203 cd
(25%): 318 cd	(40%): 509 cd
(63%): 801 cd	(100%): 1272 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

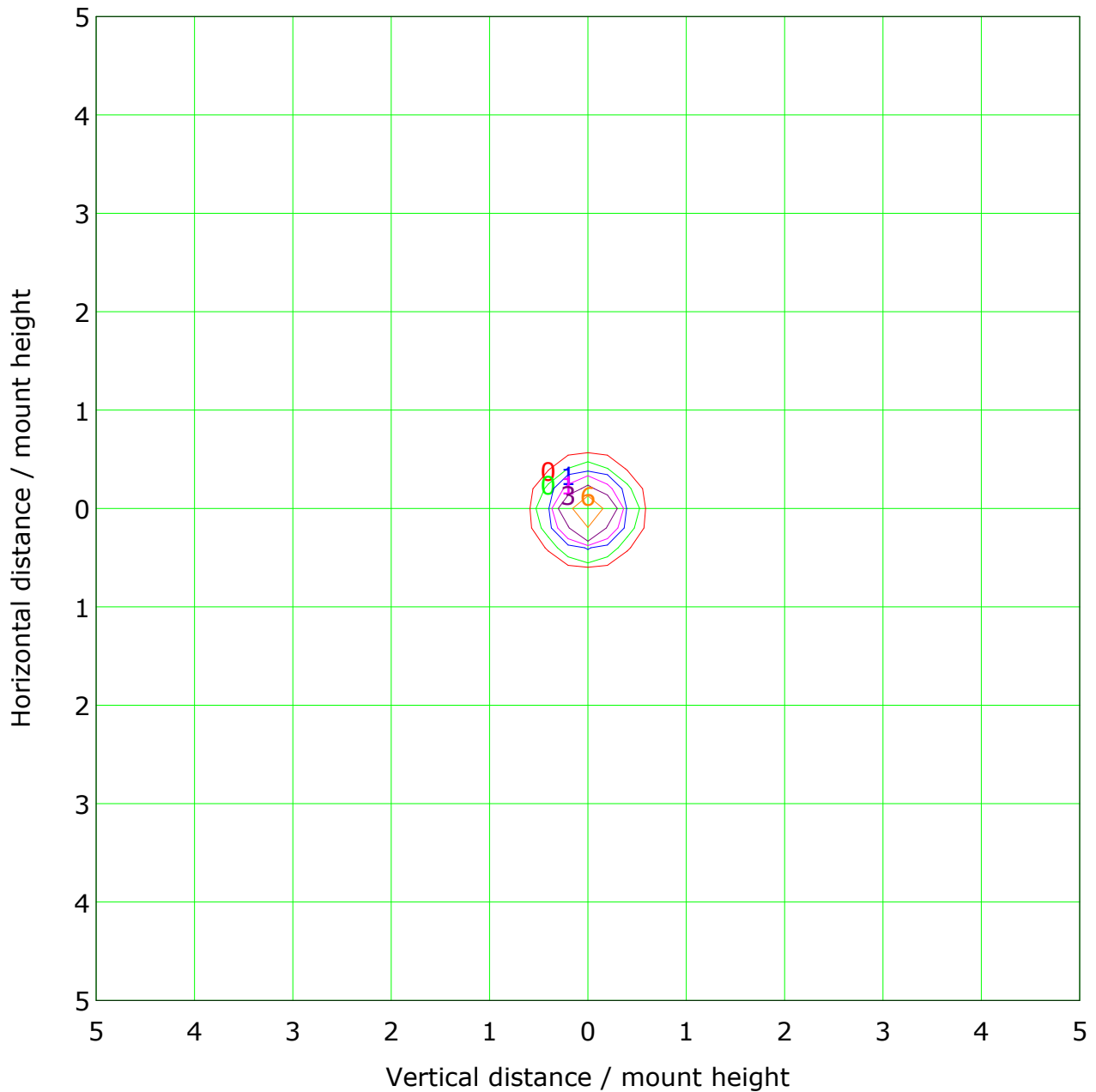
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

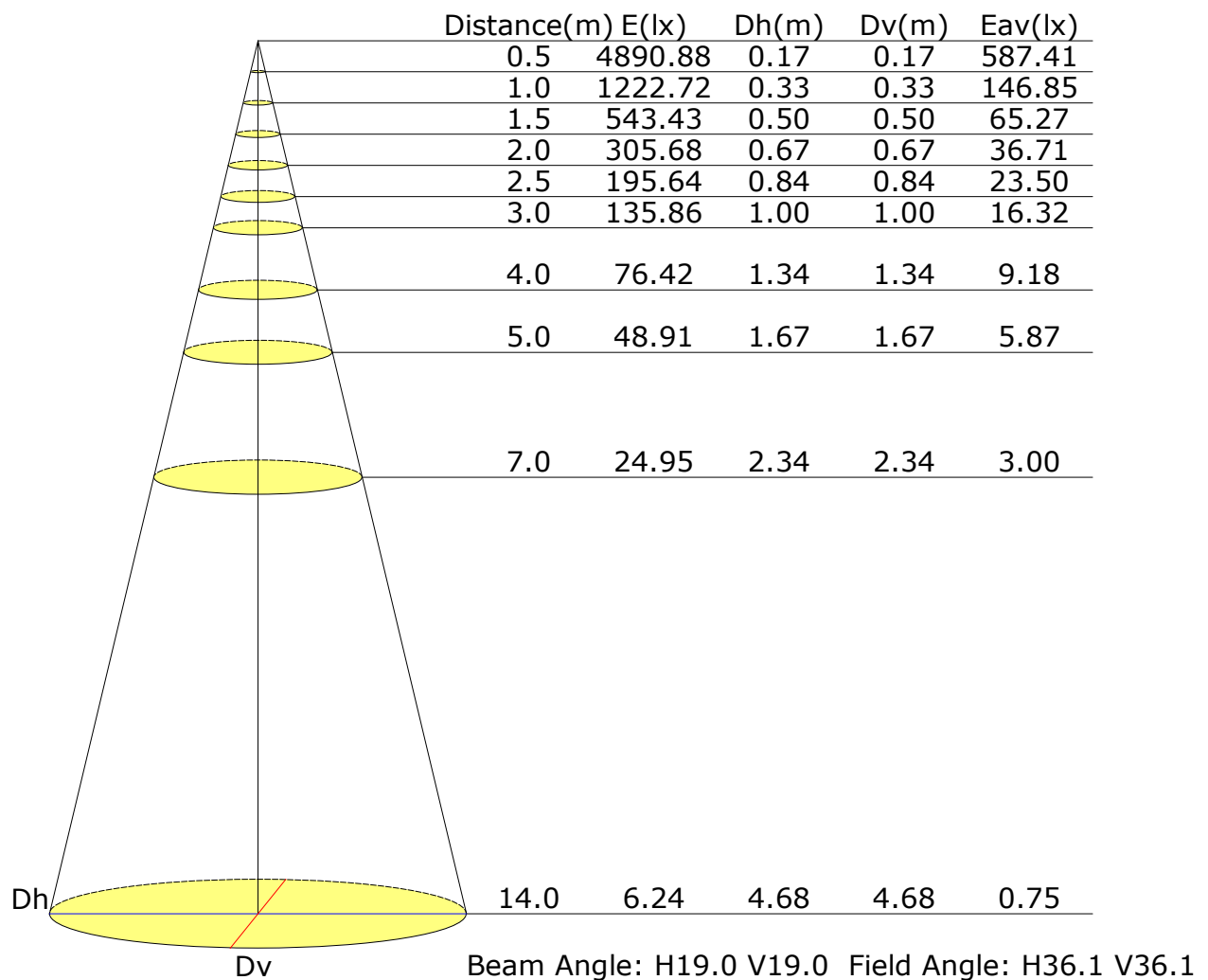


Mounting Height: 10m Max Lux(100%): 13 lx			
— (1%):	0 lx	— (2%):	0 lx
— (5%):	1 lx	— (10%):	1 lx
— (20%):	3 lx	— (50%):	6 lx
— (100%):	13 lx		

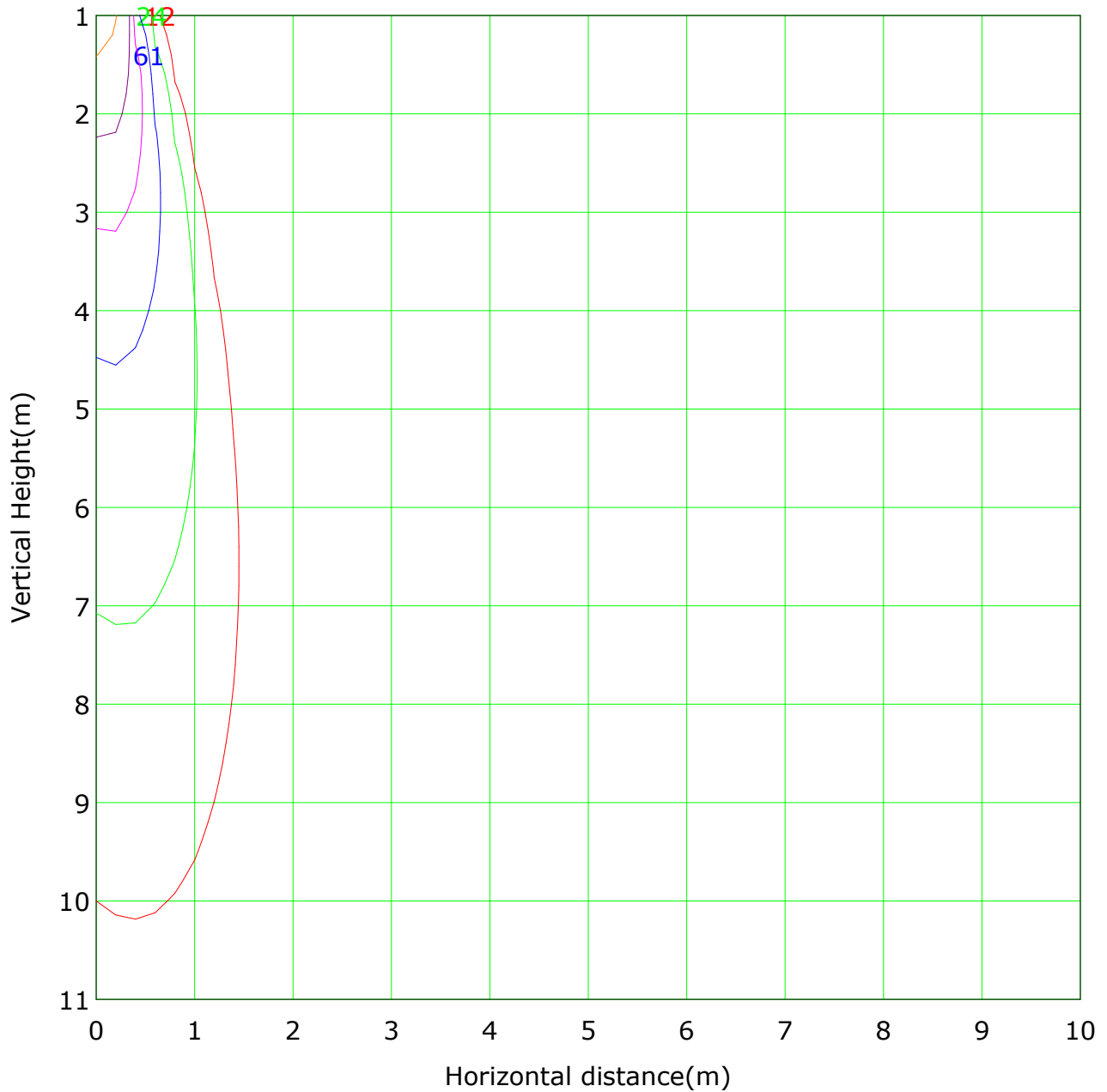
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



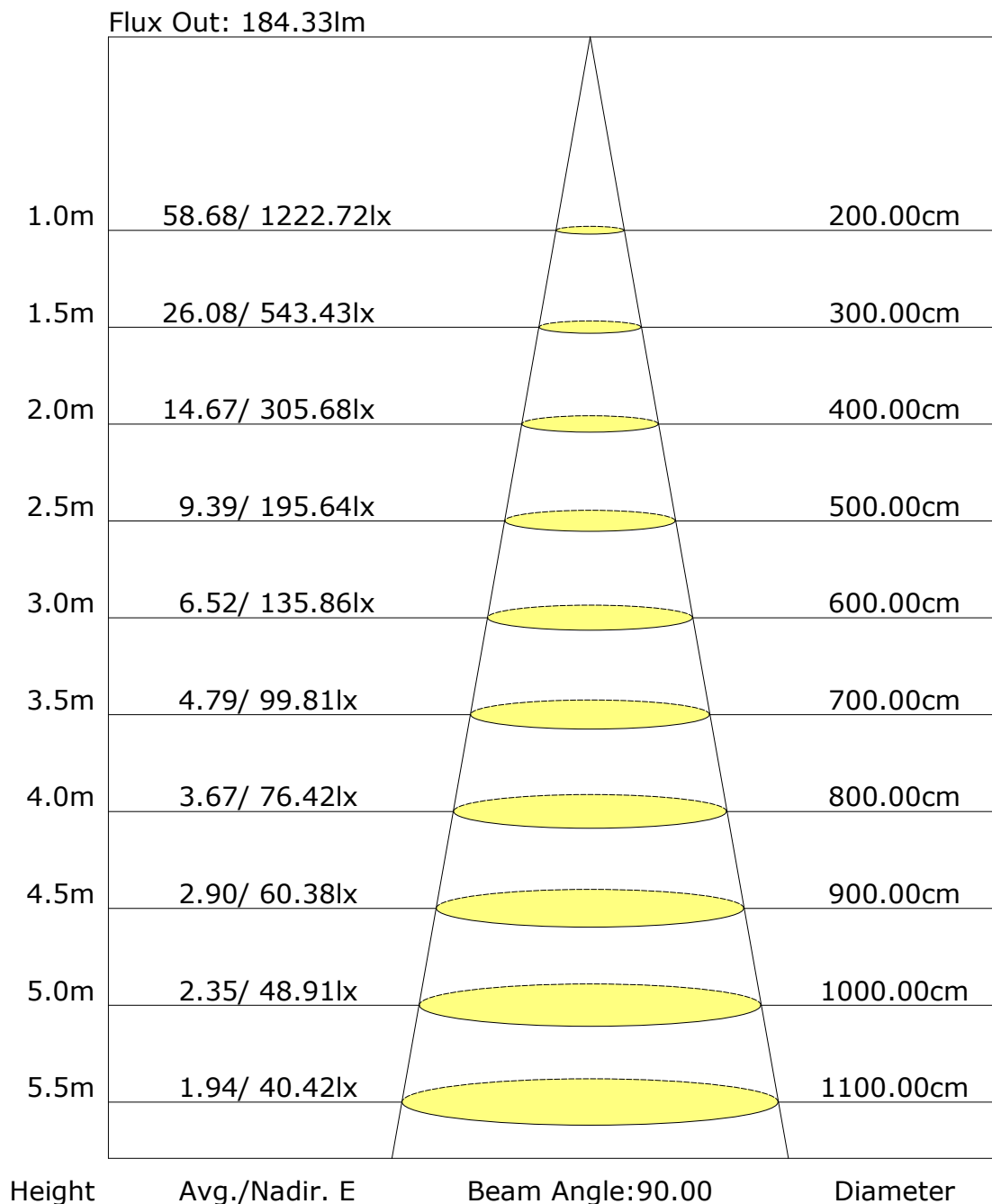
Lowest(m): 1m Highest(m): 11 Max Lux: 1223

(1%): 12 lx	(2%): 24 lx
(5%): 61 lx	(10%): 122 lx
(20%): 245 lx	(50%): 611 lx
(100%): 1223 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	1217.4	1.2	1.2	0.60	0.60
1.0-2.0	1199.4	3.4	4.6	1.77	2.37
2.0-3.0	1166.0	5.6	10.2	2.87	5.25
3.0-4.0	1116.6	7.5	17.7	3.85	9.10
4.0-5.0	1053.0	9.1	26.7	4.67	13.77
5.0-6.0	979.1	10.3	37.0	5.30	19.07
6.0-7.0	897.4	11.1	48.2	5.74	24.81
7.0-8.0	811.6	11.6	59.8	5.99	30.80
8.0-9.0	724.6	11.7	71.5	6.05	36.85
9.0-10.0	638.1	11.5	83.1	5.95	42.80
10.0-11.0	553.8	11.1	94.1	5.70	48.50
11.0-12.0	474.2	10.4	104.5	5.34	53.85
12.0-13.0	401.2	9.5	114.0	4.91	58.75
13.0-14.0	336.0	8.6	122.6	4.43	63.19
14.0-15.0	279.1	7.7	130.3	3.95	67.13
15.0-16.0	229.9	6.7	137.0	3.47	70.61
16.0-17.0	188.0	5.9	142.9	3.02	73.62
17.0-18.0	152.9	5.0	147.9	2.60	76.22
18.0-19.0	124.5	4.3	152.2	2.23	78.45
19.0-20.0	101.7	3.7	156.0	1.92	80.37
20.0-21.0	83.4	3.2	159.2	1.65	82.02
21.0-22.0	68.6	2.8	161.9	1.42	83.44
22.0-23.0	56.7	2.4	164.3	1.23	84.67
23.0-24.0	47.3	2.1	166.4	1.07	85.74
24.0-25.0	39.6	1.8	168.2	0.93	86.67
25.0-26.0	33.5	1.6	169.8	0.81	87.48
26.0-27.0	28.7	1.4	171.2	0.72	88.20
27.0-28.0	24.9	1.3	172.4	0.65	88.85
28.0-29.0	21.9	1.1	173.6	0.59	89.44
29.0-30.0	19.4	1.0	174.6	0.54	89.98
30.0-31.0	17.2	1.0	175.6	0.49	90.48
31.0-32.0	15.4	0.9	176.5	0.45	90.93
32.0-33.0	13.8	0.8	177.3	0.42	91.35
33.0-34.0	12.5	0.8	178.0	0.39	91.74
34.0-35.0	11.5	0.7	178.8	0.37	92.11
35.0-36.0	10.5	0.7	179.4	0.35	92.46

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	9.7	0.6	180.1	0.33	92.78
37.0-38.0	9.1	0.6	180.7	0.31	93.09
38.0-39.0	8.4	0.6	181.2	0.30	93.39
39.0-40.0	7.9	0.5	181.8	0.28	93.67
40.0-41.0	7.5	0.5	182.3	0.27	93.95
41.0-42.0	7.1	0.5	182.8	0.27	94.22
42.0-43.0	6.9	0.5	183.3	0.26	94.48
43.0-44.0	6.6	0.5	183.8	0.26	94.73
44.0-45.0	6.4	0.5	184.3	0.25	94.99
45.0-46.0	6.1	0.5	184.8	0.25	95.23
46.0-47.0	5.8	0.5	185.3	0.24	95.47
47.0-48.0	5.7	0.5	185.7	0.24	95.71
48.0-49.0	5.6	0.5	186.2	0.24	95.95
49.0-50.0	5.4	0.5	186.6	0.23	96.18
50.0-51.0	5.2	0.4	187.1	0.23	96.41
51.0-52.0	5.1	0.4	187.5	0.22	96.63
52.0-53.0	4.9	0.4	188.0	0.22	96.85
53.0-54.0	4.7	0.4	188.4	0.21	97.06
54.0-55.0	4.4	0.4	188.8	0.20	97.27
55.0-56.0	4.2	0.4	189.1	0.20	97.46
56.0-57.0	4.0	0.4	189.5	0.19	97.65
57.0-58.0	3.9	0.4	189.9	0.19	97.84
58.0-59.0	3.7	0.3	190.2	0.18	98.01
59.0-60.0	3.4	0.3	190.5	0.17	98.18
60.0-61.0	3.2	0.3	190.8	0.16	98.34
61.0-62.0	3.0	0.3	191.1	0.15	98.48
62.0-63.0	2.8	0.3	191.4	0.14	98.63
63.0-64.0	2.6	0.3	191.7	0.13	98.76
64.0-65.0	2.4	0.2	191.9	0.12	98.88
65.0-66.0	2.2	0.2	192.1	0.11	98.99
66.0-67.0	2.0	0.2	192.3	0.11	99.10
67.0-68.0	1.9	0.2	192.5	0.10	99.20
68.0-69.0	1.7	0.2	192.7	0.09	99.29
69.0-70.0	1.5	0.2	192.8	0.08	99.37
70.0-71.0	1.4	0.1	193.0	0.08	99.45
71.0-72.0	1.4	0.1	193.1	0.07	99.52

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	1222.7	1222.7								
G1.0	1256.2	1168.1								
G2.0	1271.8	1101.6								
G3.0	1267.2	1023.6								
G4.0	1239.9	935.7								
G5.0	1193.7	842.8								
G6.0	1133.5	746.4								
G7.0	1058.0	651.9								
G8.0	972.0	564.5								
G9.0	878.7	483.1								
G10.0	783.0	407.5								
G11.0	685.0	339.8								
G12.0	591.9	280.2								
G13.0	503.8	228.8								
G14.0	423.5	187.8								
G15.0	350.3	154.8								
G16.0	286.4	128.0								
G17.0	231.7	106.0								
G18.0	185.9	88.1								
G19.0	150.6	73.3								
G20.0	122.2	60.8								
G21.0	99.9	50.7								
G22.0	81.4	42.5								
G23.0	66.9	36.1								
G24.0	55.1	31.0								
G25.0	45.6	26.8								
G26.0	38.2	23.3								
G27.0	32.8	20.5								
G28.0	28.4	18.0								
G29.0	24.8	16.3								
G30.0	21.9	14.6								
G31.0	19.5	12.9								
G32.0	17.4	11.8								
G33.0	15.4	10.8								
G34.0	14.0	9.9								
G35.0	12.9	8.9								
G36.0	11.9	8.3								

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	10.9	7.8								
G38.0	10.2	7.3								
G39.0	9.3	6.9								
G40.0	8.8	6.5								
G41.0	8.3	6.2								
G42.0	7.9	6.1								
G43.0	7.4	6.0								
G44.0	7.3	5.7								
G45.0	6.9	5.5								
G46.0	6.7	5.2								
G47.0	6.5	5.0								
G48.0	6.5	5.0								
G49.0	6.2	4.7								
G50.0	6.3	4.5								
G51.0	6.0	4.2								
G52.0	6.0	4.1								
G53.0	5.7	4.0								
G54.0	5.3	3.7								
G55.0	5.1	3.5								
G56.0	5.0	3.2								
G57.0	5.0	3.0								
G58.0	4.7	2.9								
G59.0	4.5	2.6								
G60.0	4.2	2.4								
G61.0	4.0	2.1								
G62.0	3.8	2.0								
G63.0	3.6	1.9								
G64.0	3.2	1.6								
G65.0	3.0	1.6								
G66.0	2.9	1.4								
G67.0	2.7	1.2								
G68.0	2.5	1.2								
G69.0	2.2	1.0								
G70.0	2.0	1.0								
G71.0	1.9	0.9								
G72.0	1.9	0.9								
G73.0	1.6	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: