

Report No.:52.05527 Mini Pro Recessed
Downlight

Test Time: 2024-10-14 18:03

Luminaire Property

Luminaire Category:

Luminaire Description: 50D

Current: 0.058 A

Power Factor: 0.582

Voltage: 226.4 V

Power: 7.70 W

Photometric Results

CIE Class: Direct

Measurement Flux: 416.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H56.8

Vertical Diffuse Angle(50%): V56.8

Luminaire Efficacy Rating (LER): 54

Max. Intensity: 462.83 cd

Total Rated Lamp Lumens: 416.7 lm

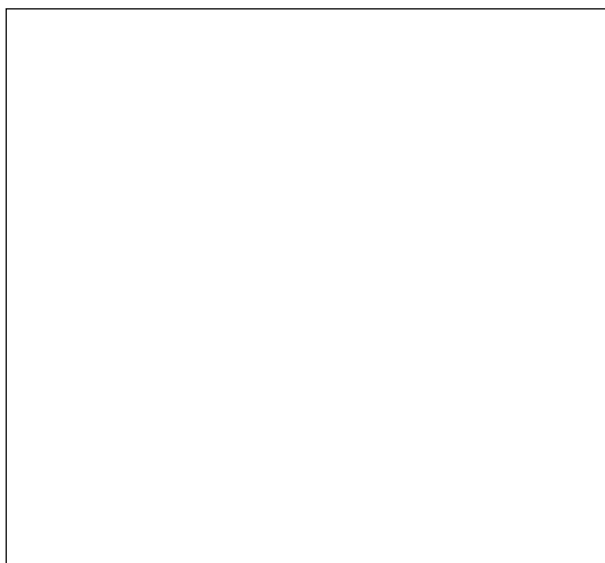
Efficiency: 100%

Upward Ratio: 0%

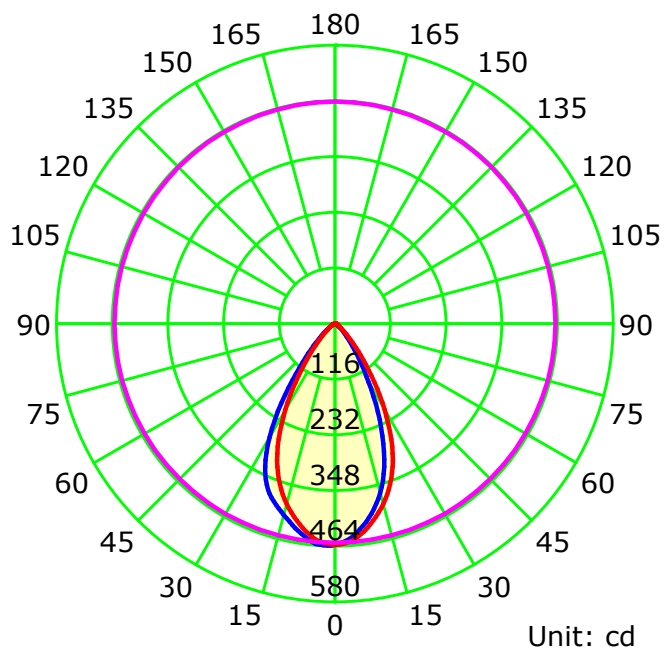
Central Intensity: 461.08 cd

Pos of Max. Intensity: H180 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

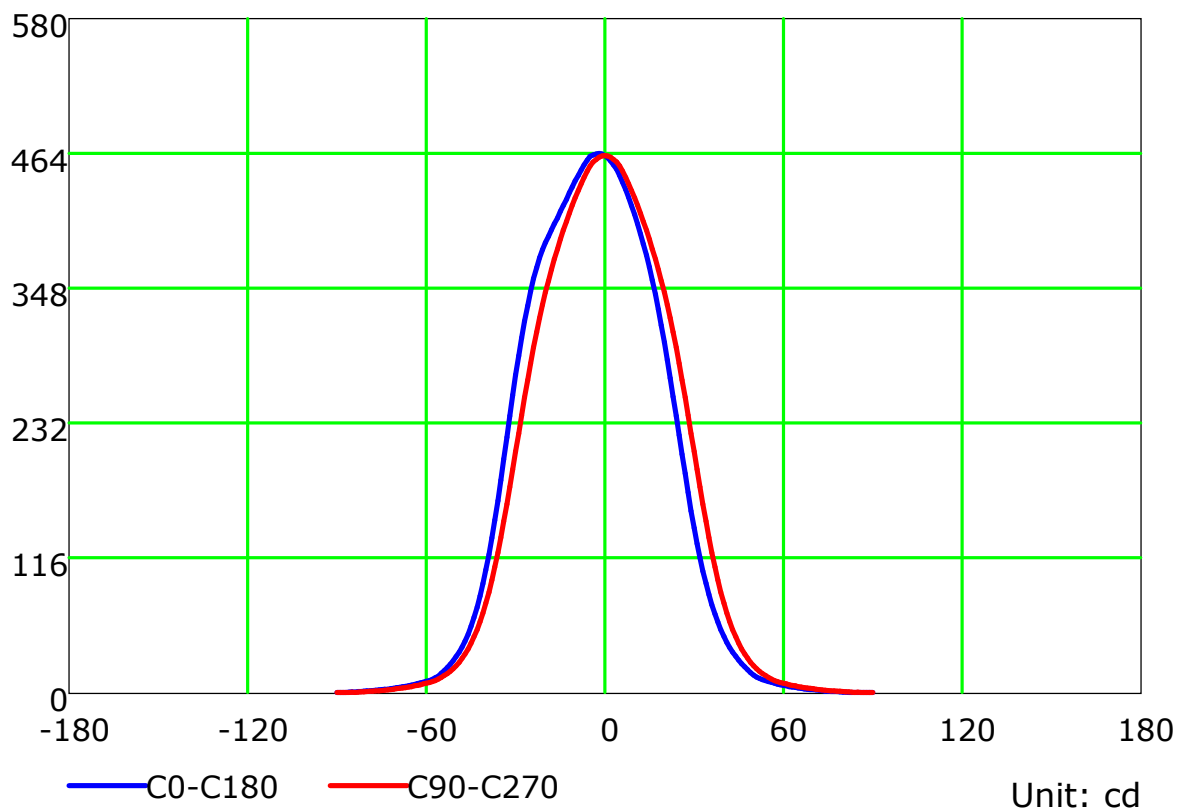
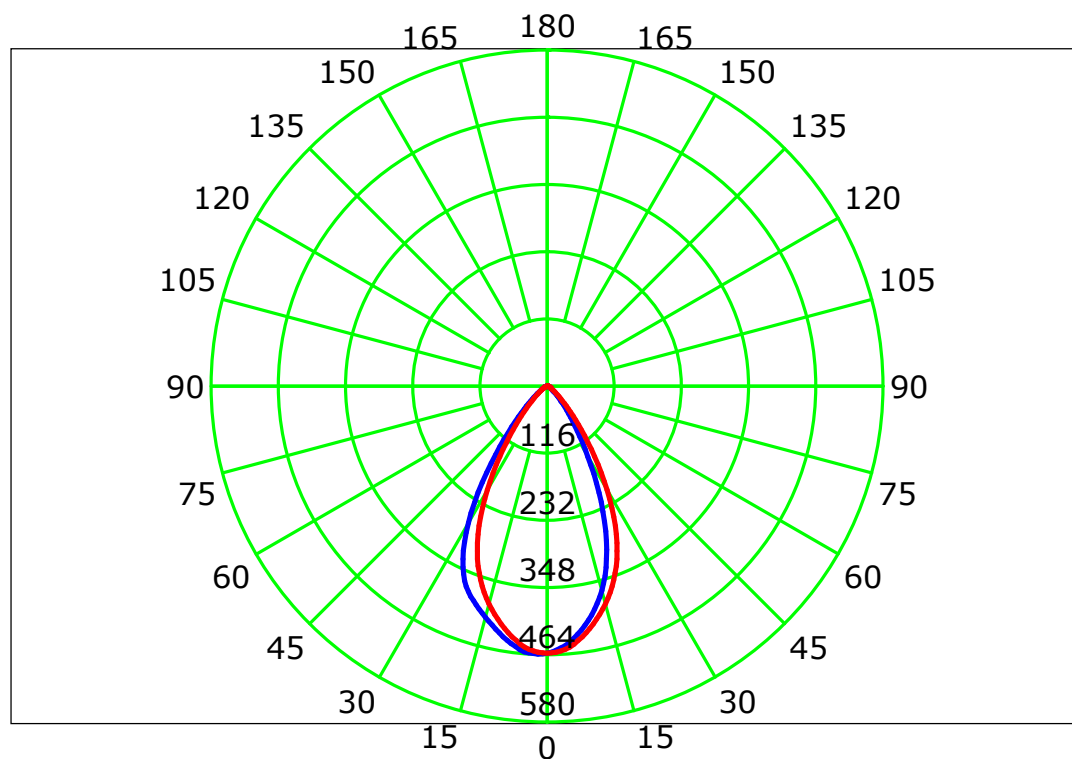
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

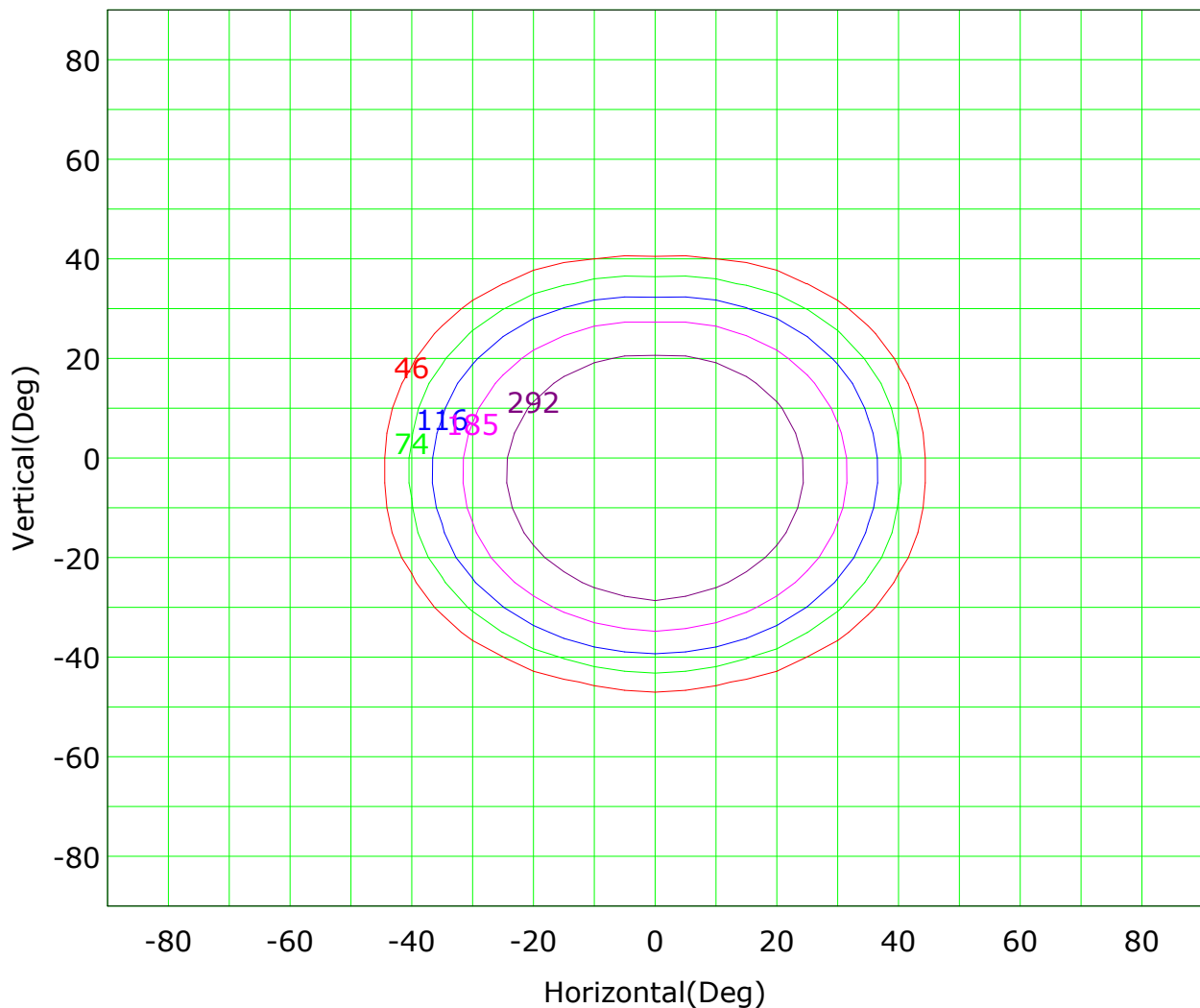
Luminous Intensity Distribution Curve



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%): 463 cd

(10%):	46 cd	(16%):	74 cd
(25%):	116 cd	(40%):	185 cd
(63%):	292 cd	(100%):	463 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

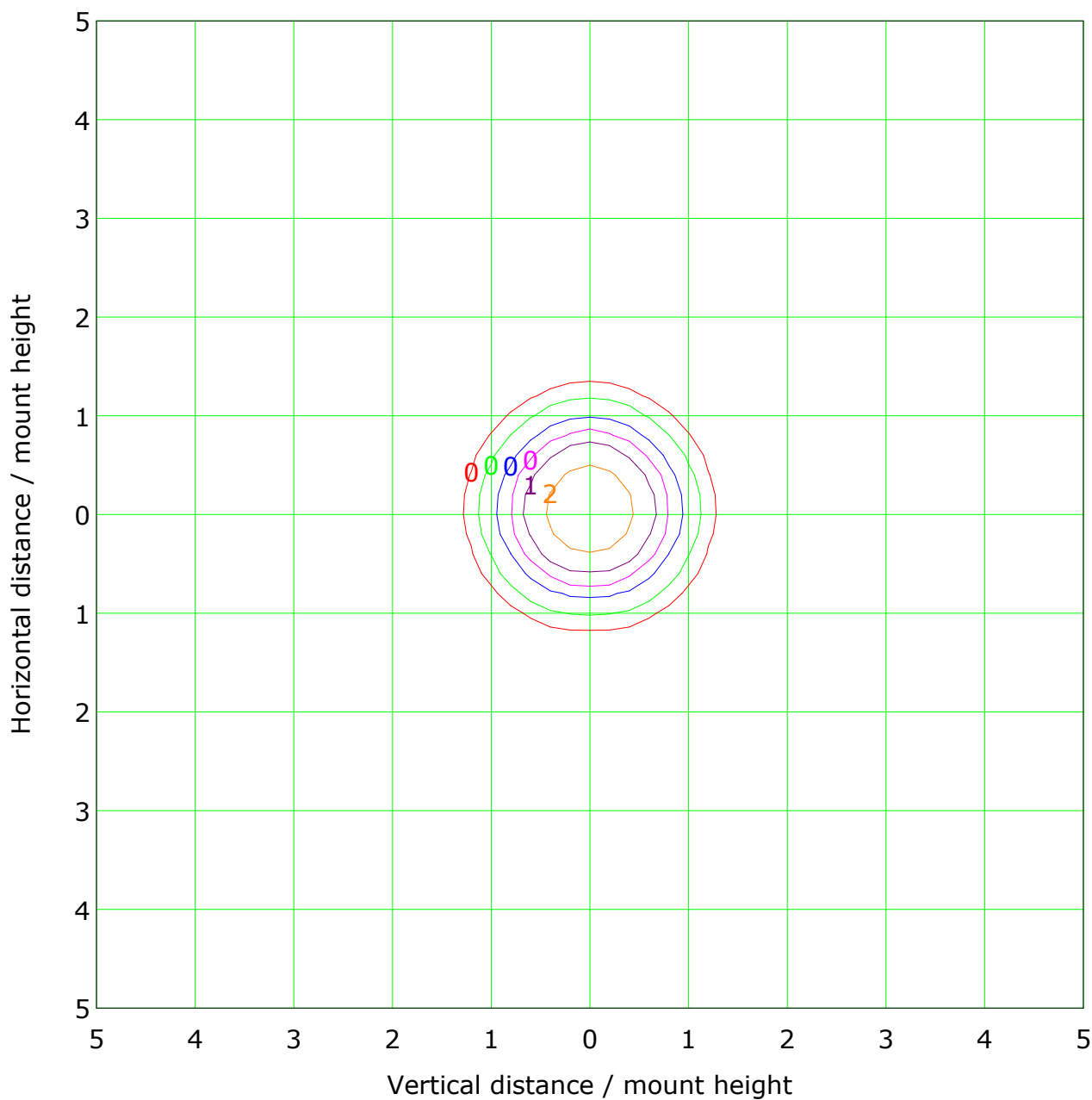
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10m Max Lux(100%): 5 lx

- (1%): 0 lx
- (5%): 0 lx
- (20%): 1 lx
- (100%): 5 lx

- (2%): 0 lx
- (10%): 0 lx
- (50%): 2 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

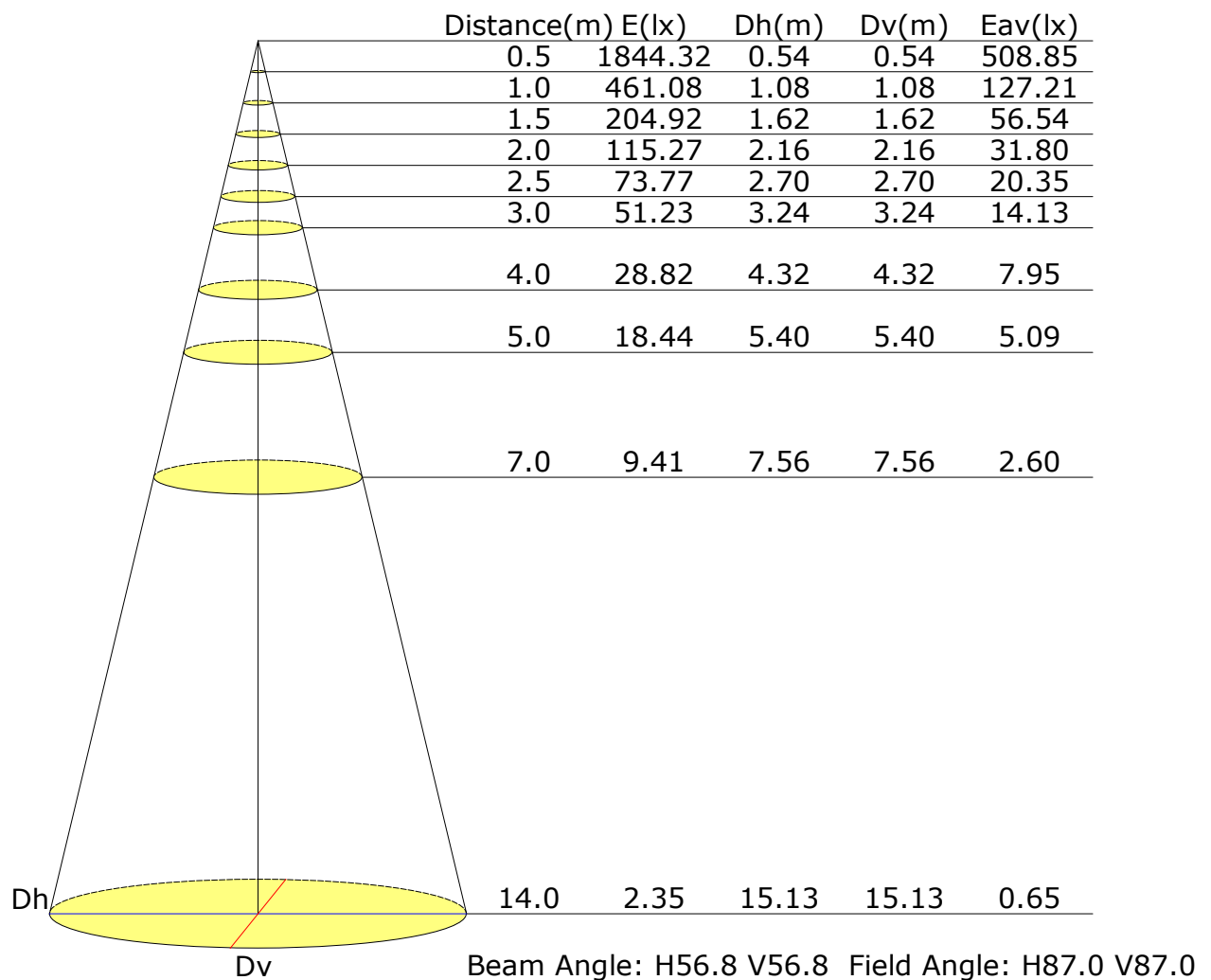
Test Device: CHL-6E

Distance: 3.328 m

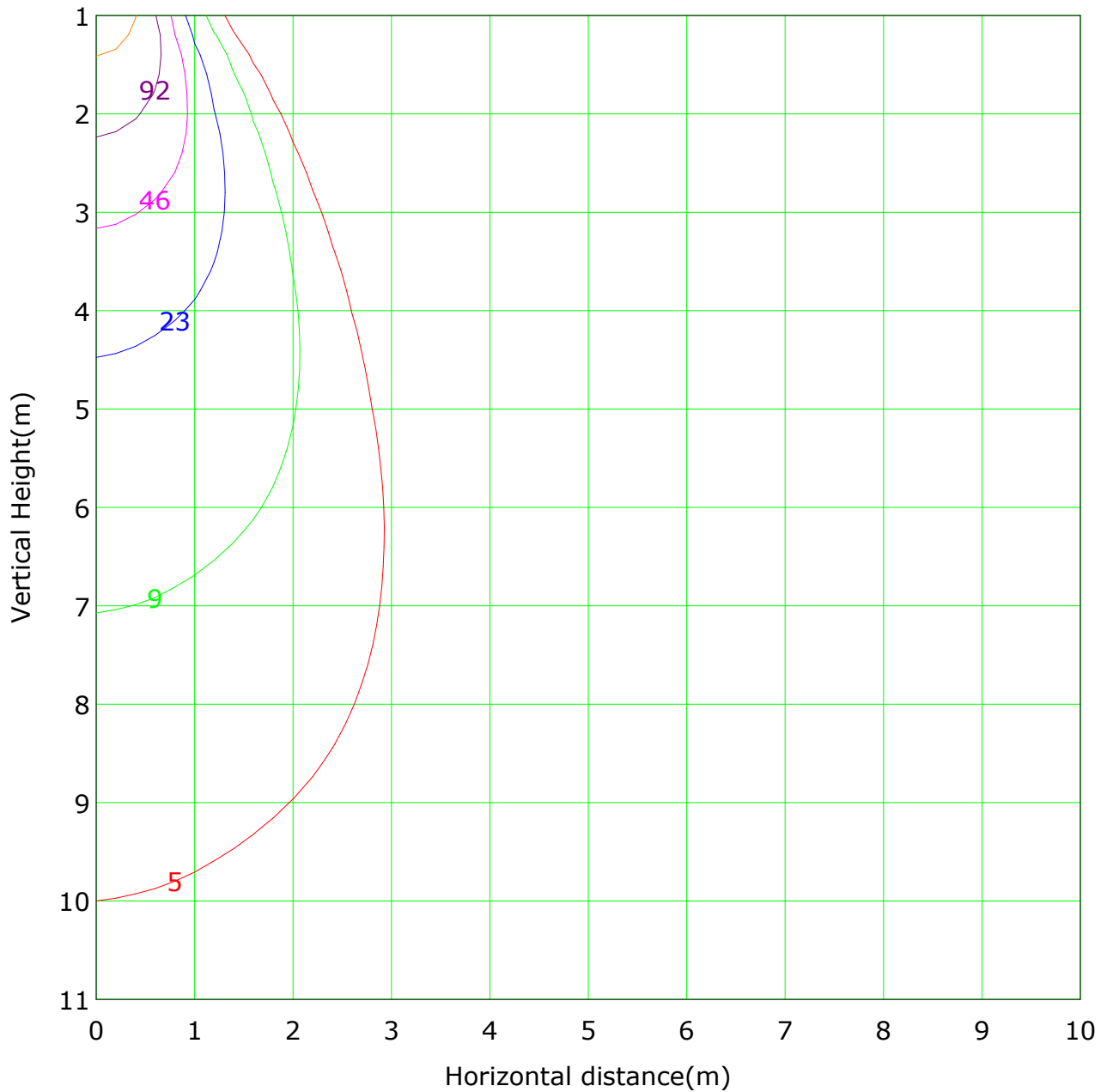
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



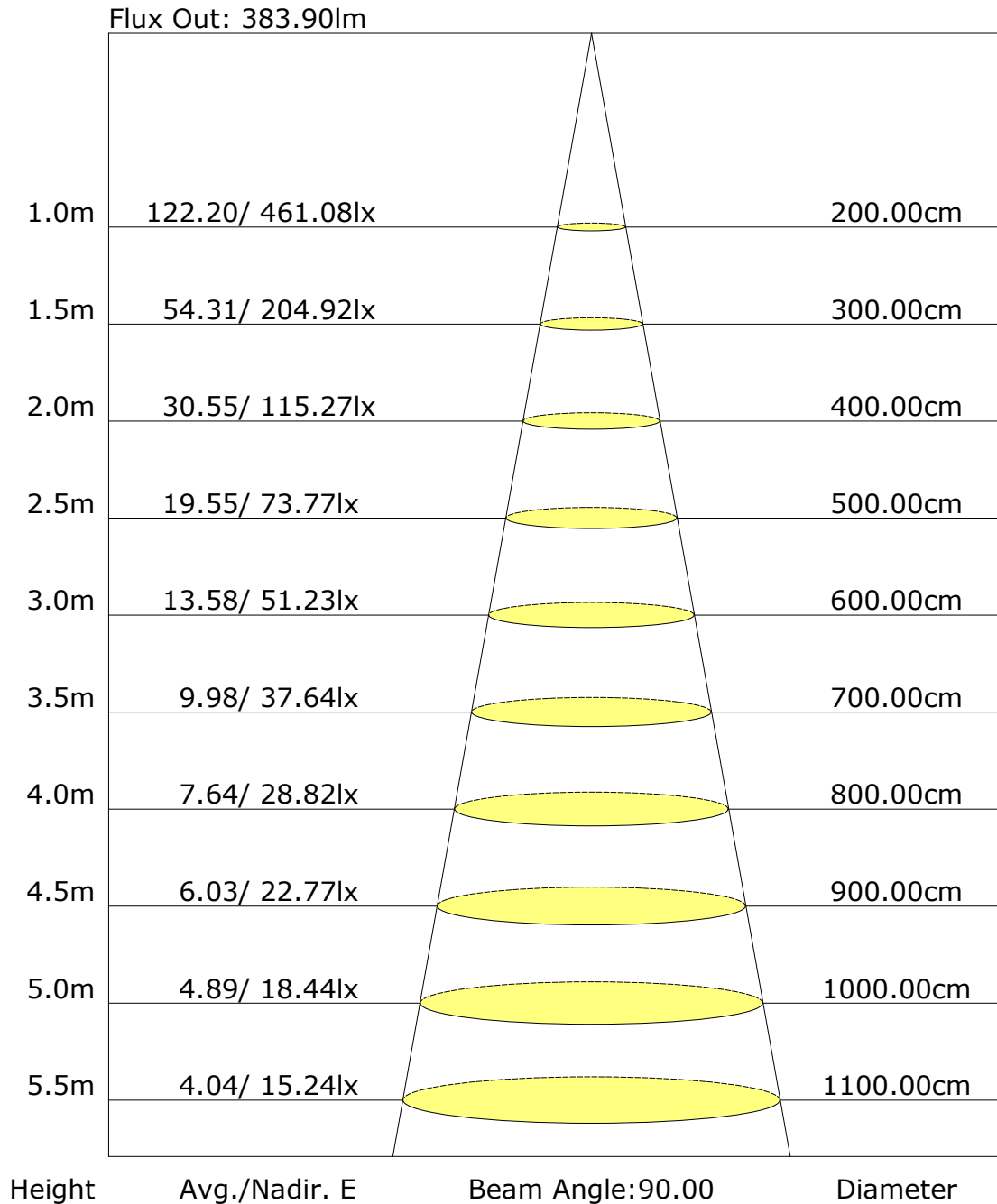
Lowest(m): 1m Highest(m): 11 Max Lux: 461

(1%): 5 lx	(2%): 9 lx
(5%): 23 lx	(10%): 46 lx
(20%): 92 lx	(50%): 231 lx
(100%): 461 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	460.9	0.4	0.4	0.11	0.11
1.0-2.0	460.1	1.3	1.8	0.32	0.42
2.0-3.0	458.6	2.2	4.0	0.53	0.95
3.0-4.0	456.5	3.1	7.0	0.73	1.68
4.0-5.0	453.8	3.9	10.9	0.94	2.62
5.0-6.0	450.0	4.7	15.6	1.14	3.75
6.0-7.0	445.1	5.5	21.2	1.33	5.08
7.0-8.0	439.7	6.3	27.5	1.51	6.59
8.0-9.0	434.0	7.0	34.5	1.69	8.28
9.0-10.0	428.0	7.7	42.2	1.86	10.14
10.0-11.0	421.6	8.4	50.7	2.02	12.16
11.0-12.0	414.9	9.1	59.7	2.18	14.34
12.0-13.0	407.9	9.7	69.4	2.32	16.66
13.0-14.0	400.6	10.3	79.7	2.46	19.12
14.0-15.0	393.1	10.8	90.5	2.59	21.71
15.0-16.0	385.0	11.3	101.8	2.71	24.42
16.0-17.0	376.6	11.7	113.5	2.81	27.23
17.0-18.0	367.7	12.1	125.6	2.91	30.15
18.0-19.0	358.3	12.5	138.1	2.99	33.14
19.0-20.0	348.6	12.8	150.8	3.06	36.20
20.0-21.0	338.3	13.0	163.8	3.12	39.32
21.0-22.0	327.3	13.2	177.0	3.16	42.48
22.0-23.0	315.6	13.2	190.2	3.18	45.65
23.0-24.0	303.0	13.2	203.5	3.18	48.83
24.0-25.0	289.6	13.2	216.7	3.16	51.99
25.0-26.0	275.6	13.0	229.7	3.12	55.12
26.0-27.0	261.0	12.8	242.4	3.06	58.18
27.0-28.0	245.9	12.4	254.9	2.99	61.17
28.0-29.0	230.4	12.1	266.9	2.89	64.06
29.0-30.0	214.8	11.6	278.5	2.78	66.85
30.0-31.0	199.3	11.1	289.6	2.66	69.51
31.0-32.0	184.2	10.6	300.2	2.53	72.04
32.0-33.0	169.2	10.0	310.2	2.39	74.43
33.0-34.0	154.4	9.3	319.5	2.24	76.68
34.0-35.0	140.2	8.7	328.2	2.09	78.77
35.0-36.0	126.7	8.1	336.3	1.94	80.70

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	114.0	7.4	343.7	1.78	82.49
37.0-38.0	102.3	6.8	350.5	1.64	84.13
38.0-39.0	91.5	6.2	356.8	1.50	85.62
39.0-40.0	81.5	5.7	362.5	1.36	86.99
40.0-41.0	72.6	5.2	367.6	1.24	88.23
41.0-42.0	64.5	4.7	372.3	1.13	89.35
42.0-43.0	57.4	4.3	376.6	1.02	90.38
43.0-44.0	50.9	3.8	380.4	0.92	91.30
44.0-45.0	45.1	3.5	383.9	0.83	92.13
45.0-46.0	39.9	3.1	387.0	0.75	92.88
46.0-47.0	35.3	2.8	389.8	0.67	93.55
47.0-48.0	31.3	2.5	392.4	0.61	94.16
48.0-49.0	27.7	2.3	394.6	0.55	94.71
49.0-50.0	24.5	2.0	396.7	0.49	95.20
50.0-51.0	21.7	1.8	398.5	0.44	95.64
51.0-52.0	19.3	1.7	400.2	0.40	96.03
52.0-53.0	17.3	1.5	401.7	0.36	96.40
53.0-54.0	15.5	1.4	403.0	0.33	96.72
54.0-55.0	13.8	1.2	404.3	0.30	97.02
55.0-56.0	12.3	1.1	405.4	0.27	97.29
56.0-57.0	11.0	1.0	406.4	0.24	97.53
57.0-58.0	9.9	0.9	407.3	0.22	97.75
58.0-59.0	9.0	0.8	408.1	0.20	97.95
59.0-60.0	8.3	0.8	408.9	0.19	98.13
60.0-61.0	7.7	0.7	409.7	0.18	98.31
61.0-62.0	7.1	0.7	410.3	0.16	98.48
62.0-63.0	6.5	0.6	411.0	0.15	98.63
63.0-64.0	6.0	0.6	411.6	0.14	98.77
64.0-65.0	5.5	0.5	412.1	0.13	98.90
65.0-66.0	5.0	0.5	412.6	0.12	99.02
66.0-67.0	4.6	0.5	413.1	0.11	99.13
67.0-68.0	4.2	0.4	413.5	0.10	99.23
68.0-69.0	3.8	0.4	413.9	0.09	99.33
69.0-70.0	3.5	0.4	414.2	0.09	99.41
70.0-71.0	3.2	0.3	414.6	0.08	99.49
71.0-72.0	2.9	0.3	414.9	0.07	99.56

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	461.1	461.1								
G1.0	459.1	462.3								
G2.0	456.2	462.8								
G3.0	453.0	462.3								
G4.0	449.2	461.7								
G5.0	444.1	460.5								
G6.0	438.2	457.2								
G7.0	431.8	453.0								
G8.0	425.2	448.7								
G9.0	418.1	444.1								
G10.0	410.4	439.2								
G11.0	402.5	434.1								
G12.0	394.0	429.0								
G13.0	385.1	423.5								
G14.0	375.7	418.3								
G15.0	365.4	413.2								
G16.0	354.1	407.6								
G17.0	342.1	402.5								
G18.0	329.0	397.3								
G19.0	315.5	391.7								
G20.0	300.9	386.4								
G21.0	285.8	380.1								
G22.0	270.1	373.3								
G23.0	254.1	364.9								
G24.0	237.5	355.4								
G25.0	221.1	344.4								
G26.0	204.7	332.2								
G27.0	188.1	318.9								
G28.0	171.8	304.7								
G29.0	155.9	289.1								
G30.0	141.3	272.8								
G31.0	128.0	255.4								
G32.0	115.8	237.5								
G33.0	104.3	219.1								
G34.0	93.7	200.6								
G35.0	84.3	182.3								
G36.0	75.5	164.9								

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	67.5	148.1								
G38.0	60.6	132.8								
G39.0	53.9	118.6								
G40.0	48.2	105.5								
G41.0	43.1	93.5								
G42.0	38.6	82.9								
G43.0	34.8	73.3								
G44.0	31.2	64.6								
G45.0	27.8	57.0								
G46.0	24.8	50.0								
G47.0	22.1	44.2								
G48.0	19.7	39.1								
G49.0	17.3	34.8								
G50.0	15.0	30.8								
G51.0	13.4	27.4								
G52.0	12.2	24.3								
G53.0	11.1	21.6								
G54.0	10.4	18.9								
G55.0	9.6	16.5								
G56.0	8.8	14.3								
G57.0	8.1	12.7								
G58.0	7.3	11.4								
G59.0	6.7	10.4								
G60.0	6.2	9.8								
G61.0	6.0	8.9								
G62.0	5.2	8.3								
G63.0	4.8	7.7								
G64.0	4.5	7.1								
G65.0	4.0	6.5								
G66.0	3.7	6.0								
G67.0	3.2	5.5								
G68.0	3.0	5.1								
G69.0	2.7	4.5								
G70.0	2.5	4.3								
G71.0	2.2	3.7								
G72.0	2.0	3.5								
G73.0	1.9	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: