

Report No.:55.03520 Mine Recessed
Downlight

Test Time: 2024-10-07 20:07

Luminaire Property

Luminaire Category:

Luminaire Description: Bridgelux 5050 4000K CRI90

Current: 0.043 A

Power Factor: 0.835

Voltage: 229.0 V

Power: 8.30 W

Photometric Results

CIE Class: Direct

Measurement Flux: 527 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H35.8

Vertical Diffuse Angle(50%): V35.8

Luminaire Efficacy Rating (LER): 63

Max. Intensity: 981.02 cd

Total Rated Lamp Lumens: 527.0 lm

Efficiency: 100%

Upward Ratio: 0%

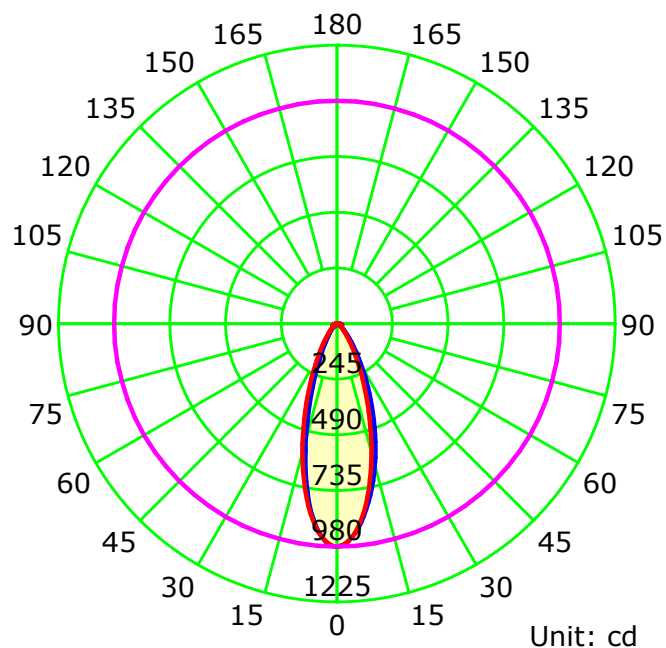
Central Intensity: 981.01 cd

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

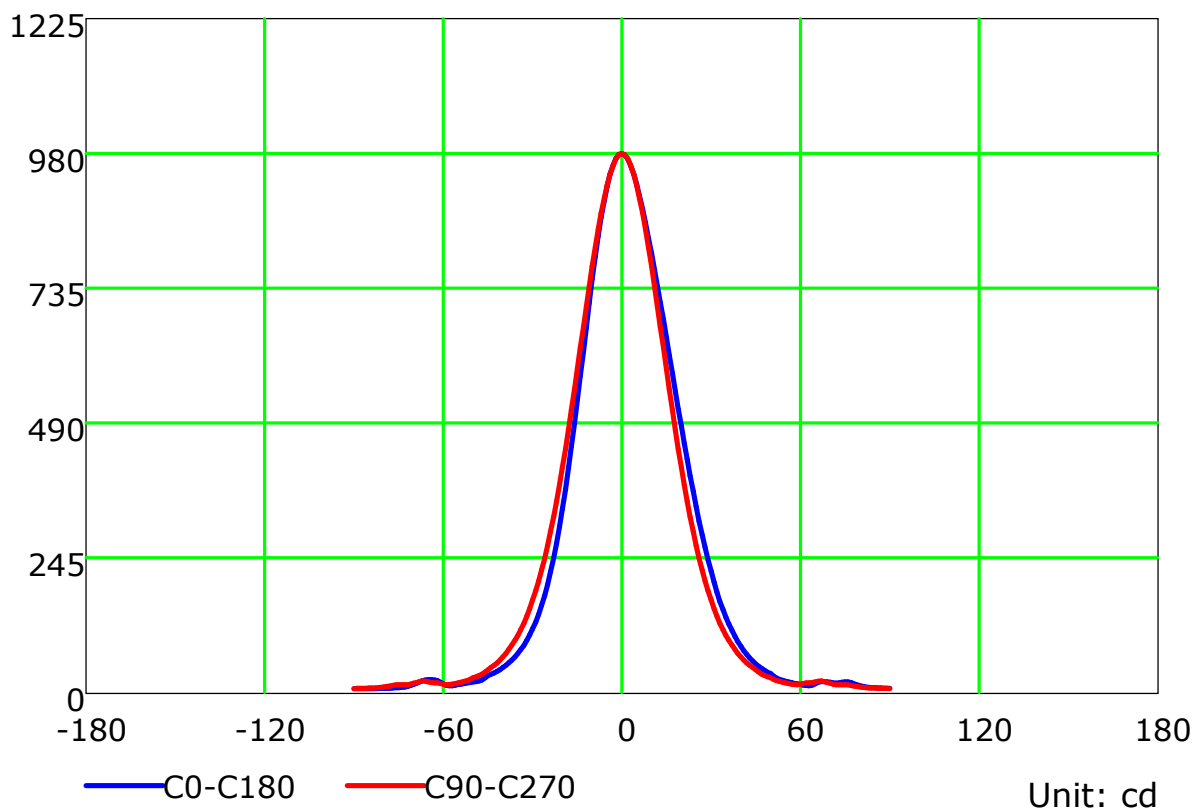
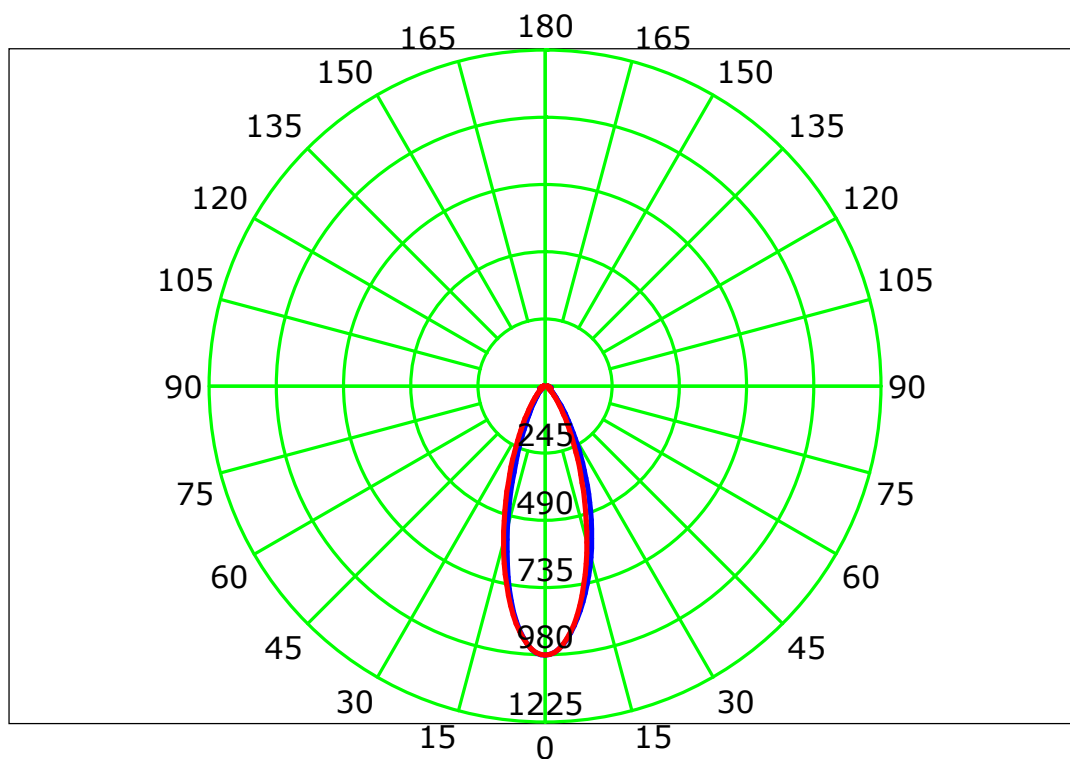
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

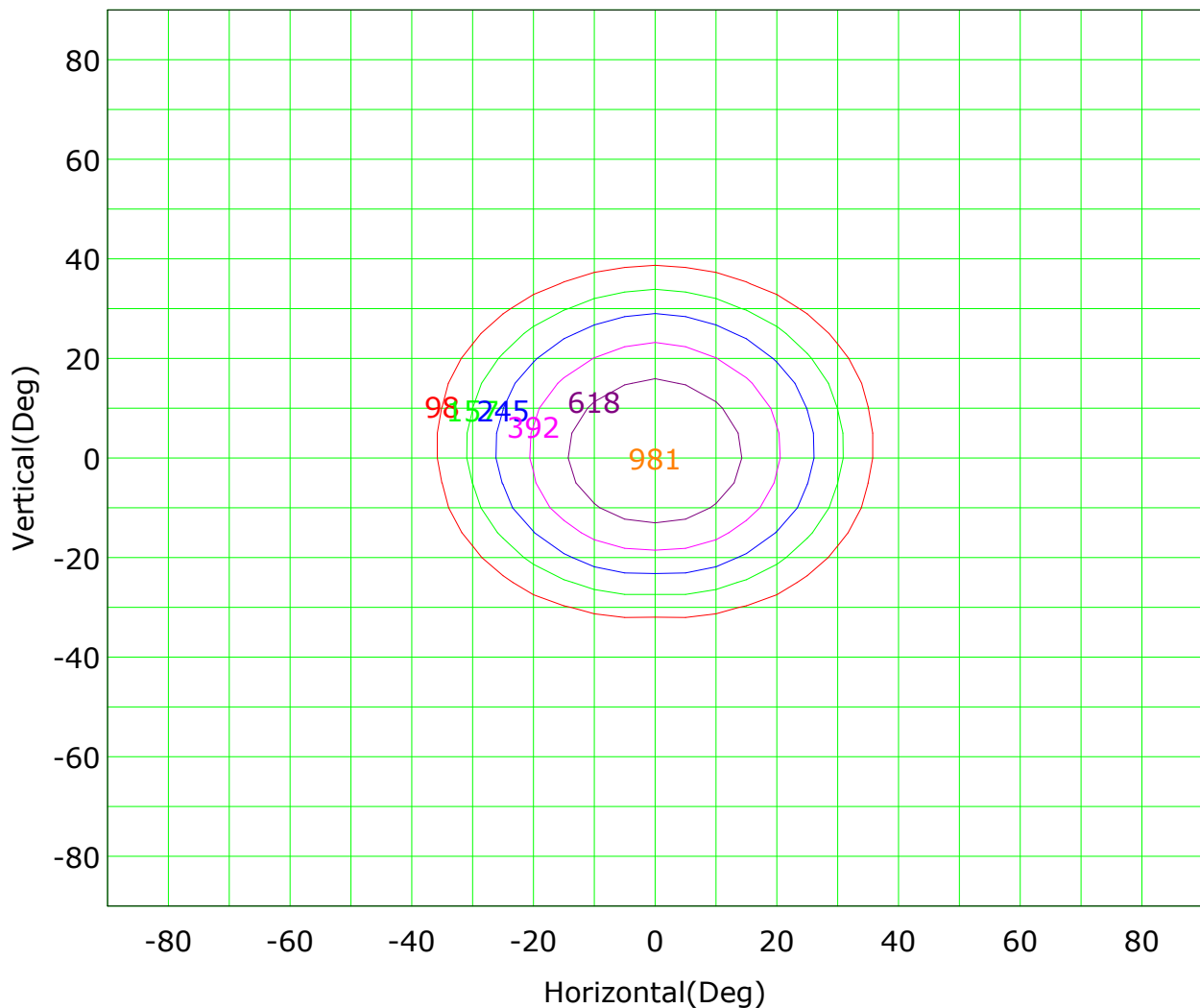
Luminous Intensity Distribution Curve



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)



I_{max} (100%): 981 cd

(10%):	98 cd	(16%):	157 cd
(25%):	245 cd	(40%):	392 cd
(63%):	618 cd	(100%):	981 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

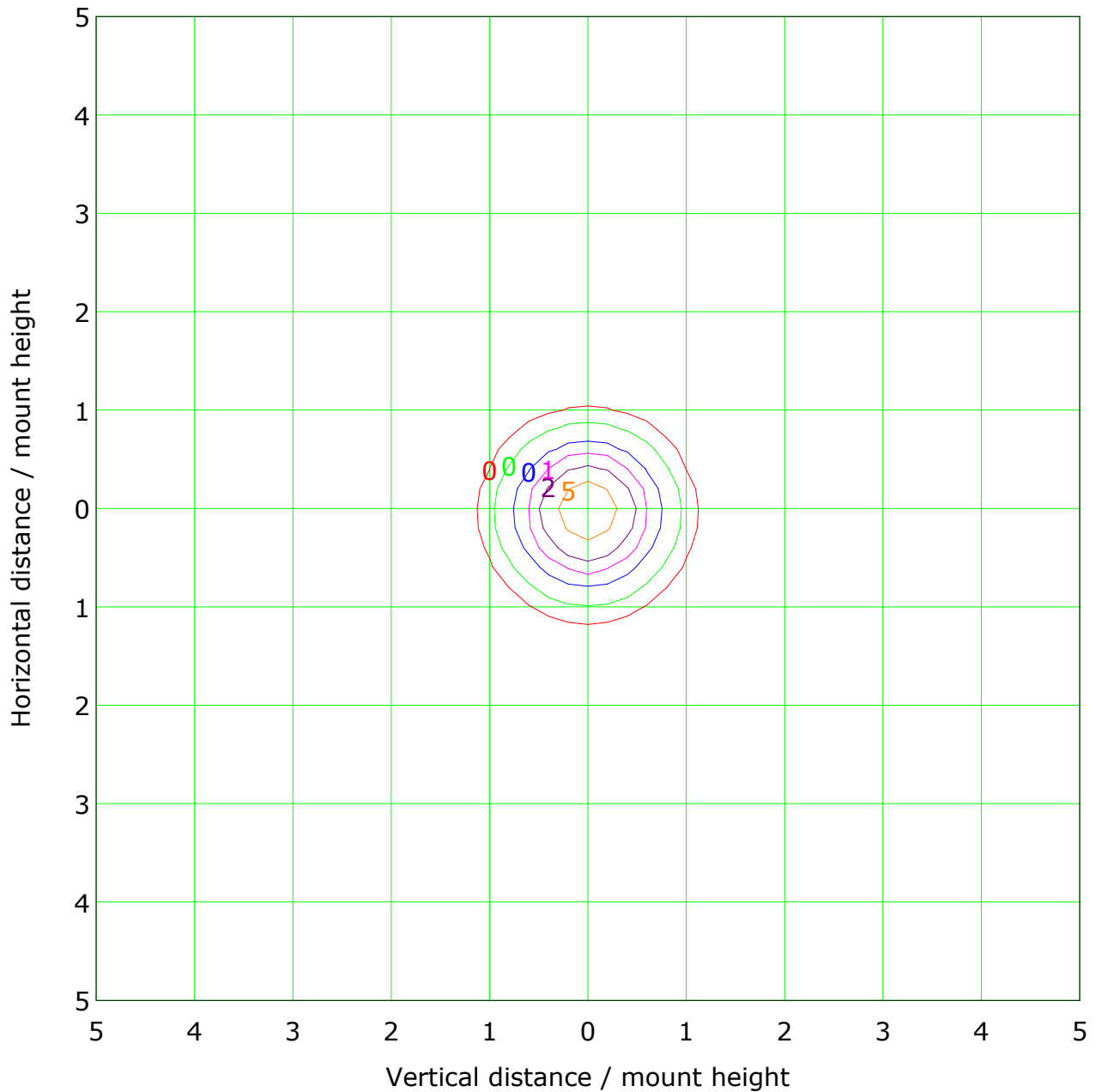
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

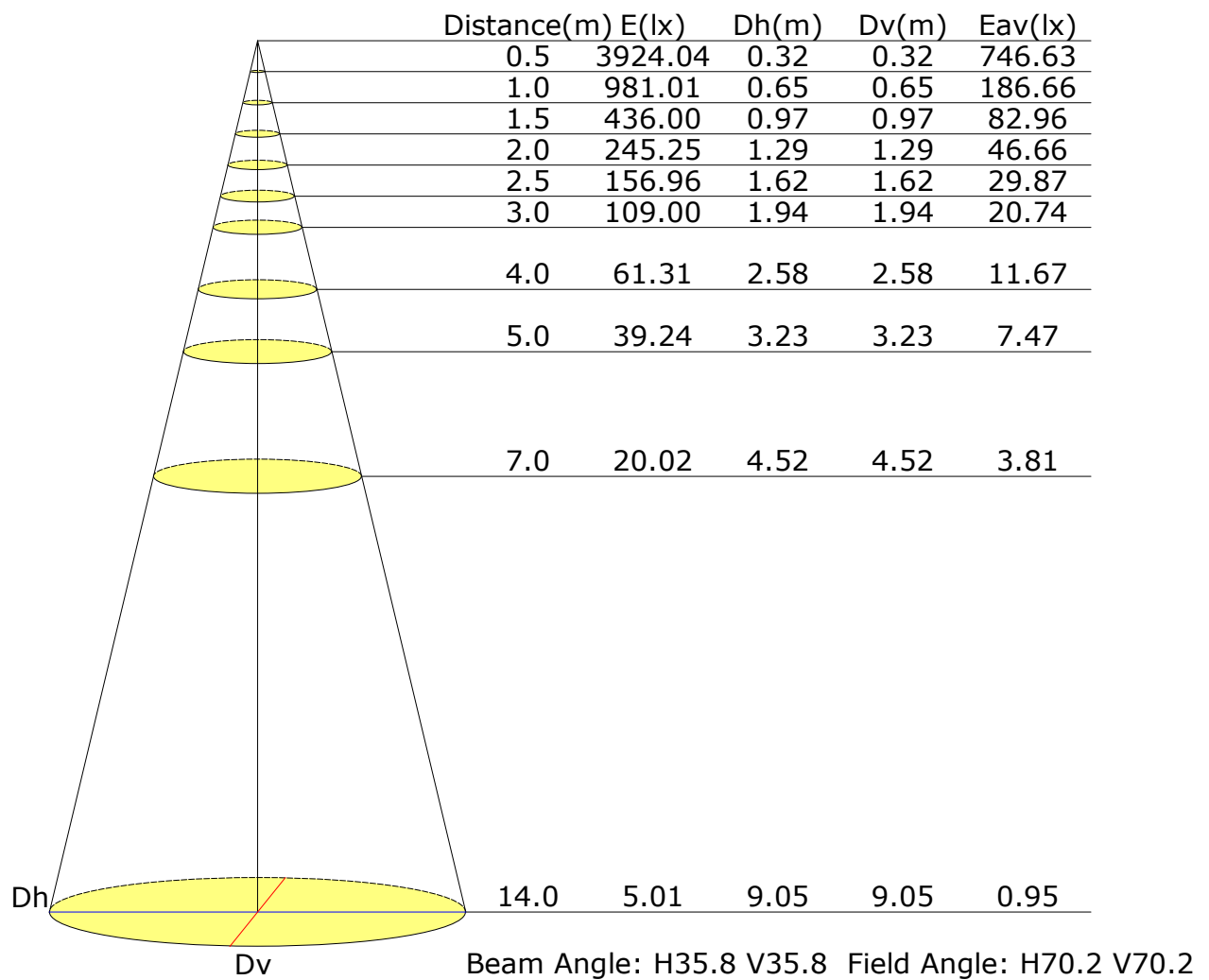


Mounting Height: 10m Max Lux(100%): 10 lx			
— (1%):	0 lx	— (2%):	0 lx
— (5%):	0 lx	— (10%):	1 lx
— (20%):	2 lx	— (50%):	5 lx
— (100%):	10 lx		

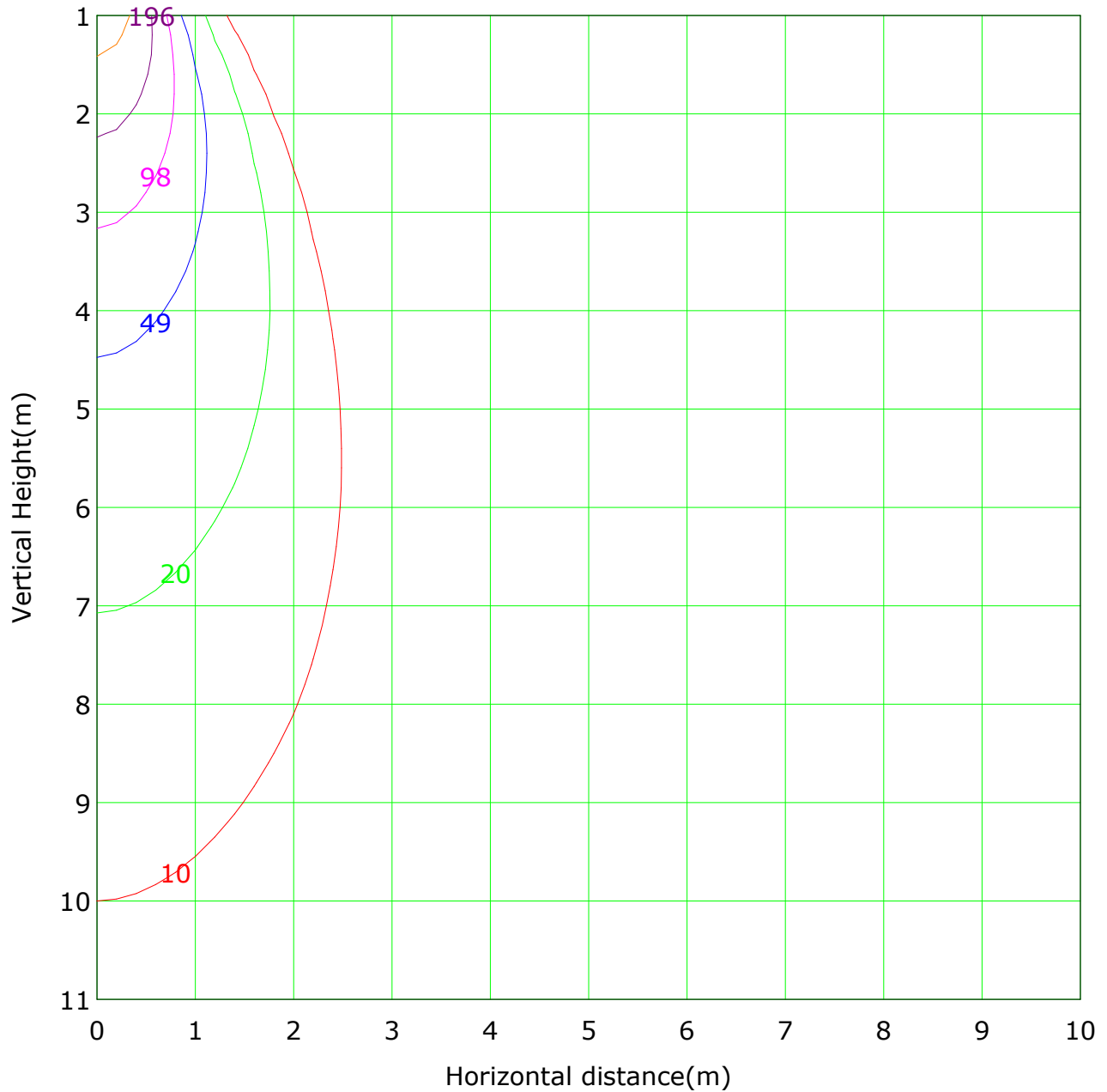
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



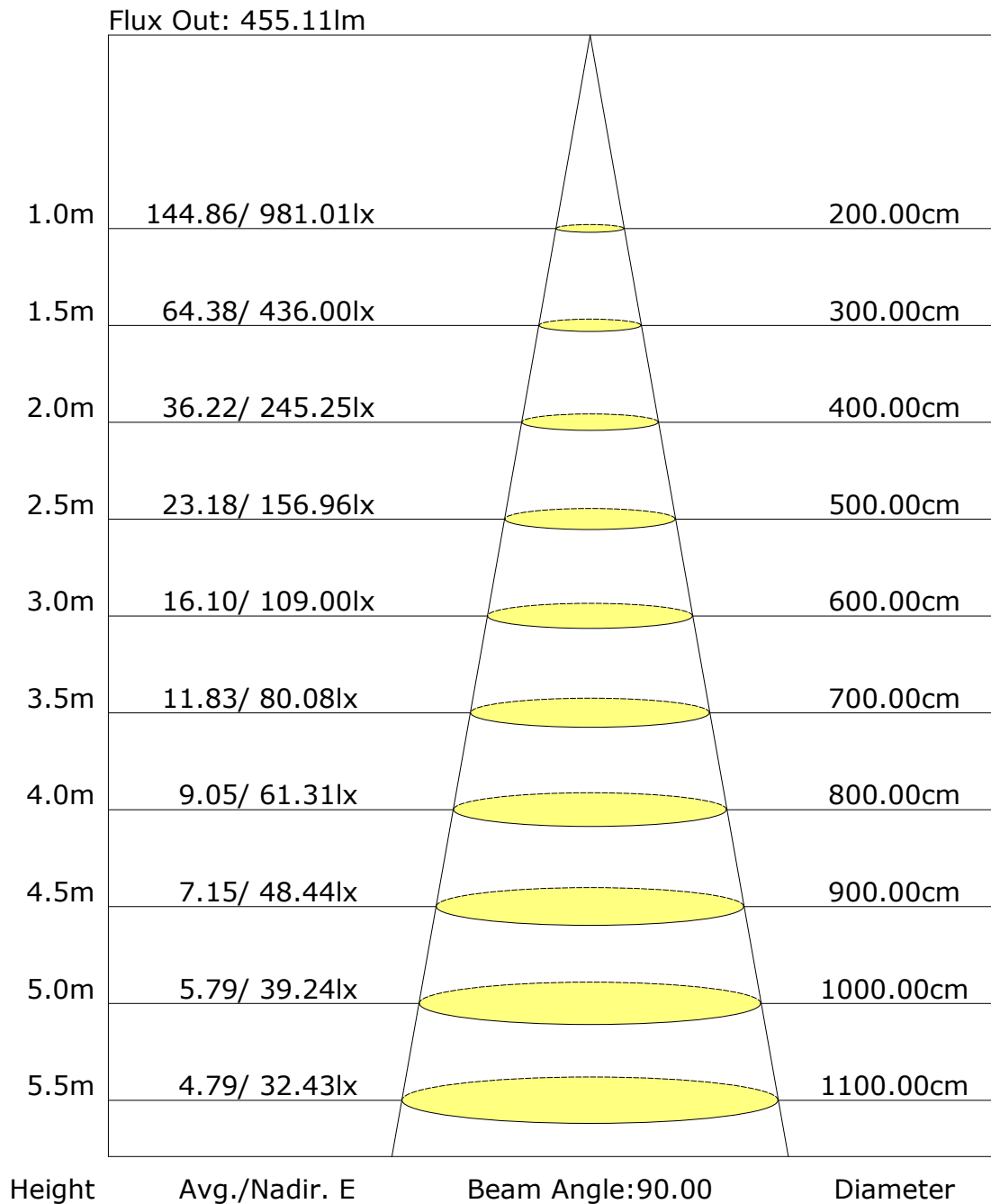
Lowest(m): 1m Highest(m): 11 Max Lux: 981

(1%): 10 lx	(2%): 20 lx
(5%): 49 lx	(10%): 98 lx
(20%): 196 lx	(50%): 491 lx
(100%): 981 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	980.0	0.9	0.9	0.18	0.18
1.0-2.0	975.5	2.8	3.7	0.53	0.71
2.0-3.0	966.1	4.6	8.4	0.88	1.59
3.0-4.0	951.9	6.4	14.7	1.21	2.80
4.0-5.0	933.6	8.0	22.8	1.52	4.32
5.0-6.0	911.4	9.6	32.3	1.82	6.14
6.0-7.0	885.8	11.0	43.3	2.09	8.22
7.0-8.0	857.4	12.3	55.6	2.33	10.55
8.0-9.0	826.4	13.4	69.0	2.54	13.09
9.0-10.0	793.1	14.4	83.4	2.72	15.82
10.0-11.0	757.5	15.1	98.5	2.87	18.69
11.0-12.0	720.6	15.8	114.3	2.99	21.68
12.0-13.0	683.4	16.2	130.5	3.08	24.76
13.0-14.0	646.1	16.5	147.0	3.14	27.89
14.0-15.0	608.7	16.7	163.7	3.17	31.07
15.0-16.0	571.0	16.7	180.5	3.18	34.24
16.0-17.0	533.1	16.6	197.1	3.15	37.39
17.0-18.0	496.2	16.4	213.4	3.10	40.50
18.0-19.0	460.6	16.0	229.5	3.04	43.54
19.0-20.0	426.3	15.6	245.1	2.96	46.50
20.0-21.0	393.6	15.1	260.2	2.87	49.37
21.0-22.0	362.9	14.6	274.8	2.77	52.13
22.0-23.0	334.1	14.0	288.8	2.66	54.79
23.0-24.0	306.7	13.4	302.2	2.54	57.34
24.0-25.0	280.5	12.8	314.9	2.42	59.76
25.0-26.0	256.0	12.1	327.0	2.29	62.05
26.0-27.0	233.6	11.4	338.5	2.17	64.22
27.0-28.0	213.1	10.8	349.3	2.05	66.27
28.0-29.0	194.3	10.2	359.4	1.93	68.20
29.0-30.0	177.1	9.6	369.0	1.81	70.01
30.0-31.0	161.0	9.0	377.9	1.70	71.71
31.0-32.0	145.9	8.4	386.3	1.59	73.30
32.0-33.0	132.4	7.8	394.1	1.48	74.78
33.0-34.0	120.4	7.3	401.4	1.38	76.16
34.0-35.0	109.5	6.8	408.2	1.29	77.45
35.0-36.0	99.6	6.3	414.5	1.20	78.65

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	90.7	5.9	420.4	1.12	79.77
37.0-38.0	82.5	5.5	425.9	1.05	80.82
38.0-39.0	75.0	5.1	431.1	0.97	81.79
39.0-40.0	68.0	4.7	435.8	0.90	82.69
40.0-41.0	61.9	4.4	440.2	0.84	83.53
41.0-42.0	56.6	4.1	444.3	0.78	84.31
42.0-43.0	51.8	3.8	448.2	0.73	85.04
43.0-44.0	47.5	3.6	451.8	0.68	85.72
44.0-45.0	43.5	3.3	455.1	0.64	86.35
45.0-46.0	39.5	3.1	458.2	0.59	86.94
46.0-47.0	35.5	2.8	461.0	0.54	87.48
47.0-48.0	32.2	2.6	463.6	0.49	87.97
48.0-49.0	29.9	2.5	466.1	0.47	88.44
49.0-50.0	27.8	2.3	468.4	0.44	88.88
50.0-51.0	25.5	2.2	470.6	0.41	89.29
51.0-52.0	23.1	2.0	472.5	0.38	89.66
52.0-53.0	21.2	1.8	474.4	0.35	90.01
53.0-54.0	19.7	1.7	476.1	0.33	90.34
54.0-55.0	18.4	1.6	477.8	0.31	90.65
55.0-56.0	17.2	1.6	479.3	0.30	90.95
56.0-57.0	16.1	1.5	480.8	0.28	91.23
57.0-58.0	15.0	1.4	482.2	0.26	91.49
58.0-59.0	14.5	1.4	483.5	0.26	91.75
59.0-60.0	14.9	1.4	484.9	0.27	92.01
60.0-61.0	15.9	1.5	486.5	0.29	92.30
61.0-62.0	17.0	1.6	488.1	0.31	92.61
62.0-63.0	17.7	1.7	489.8	0.33	92.94
63.0-64.0	18.2	1.8	491.6	0.34	93.28
64.0-65.0	19.1	1.9	493.5	0.36	93.64
65.0-66.0	20.3	2.0	495.5	0.38	94.02
66.0-67.0	20.9	2.1	497.6	0.40	94.42
67.0-68.0	20.5	2.1	499.7	0.39	94.81
68.0-69.0	19.1	2.0	501.6	0.37	95.18
69.0-70.0	17.7	1.8	503.5	0.34	95.53
70.0-71.0	16.2	1.7	505.1	0.32	95.84
71.0-72.0	14.9	1.6	506.7	0.29	96.14

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	981.0	981.0								
G1.0	978.7	979.3								
G2.0	971.6	972.6								
G3.0	959.5	960.5								
G4.0	944.3	943.2								
G5.0	925.5	921.3								
G6.0	903.8	895.0								
G7.0	879.6	864.9								
G8.0	854.1	830.9								
G9.0	827.1	793.7								
G10.0	798.9	752.6								
G11.0	769.0	709.5								
G12.0	739.4	664.6								
G13.0	709.6	619.9								
G14.0	678.7	576.2								
G15.0	646.8	533.2								
G16.0	614.2	489.9								
G17.0	580.9	447.5								
G18.0	548.2	408.1								
G19.0	516.2	369.7								
G20.0	484.9	334.2								
G21.0	453.8	301.4								
G22.0	424.7	271.8								
G23.0	394.8	245.2								
G24.0	366.6	220.1								
G25.0	338.7	196.5								
G26.0	312.2	176.5								
G27.0	287.1	158.7								
G28.0	264.1	142.5								
G29.0	241.8	128.7								
G30.0	221.4	116.3								
G31.0	201.0	105.2								
G32.0	182.5	95.0								
G33.0	166.0	86.0								
G34.0	151.1	78.3								
G35.0	137.3	71.1								
G36.0	125.1	64.8								

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	113.5	59.2								
G38.0	103.0	54.4								
G39.0	92.9	49.7								
G40.0	83.9	45.7								
G41.0	76.2	41.8								
G42.0	69.4	38.9								
G43.0	63.1	36.0								
G44.0	57.4	33.6								
G45.0	52.0	31.2								
G46.0	47.8	27.1								
G47.0	44.0	23.2								
G48.0	40.5	21.4								
G49.0	37.2	20.4								
G50.0	34.4	19.2								
G51.0	30.3	18.3								
G52.0	26.4	17.5								
G53.0	24.2	16.6								
G54.0	22.4	15.6								
G55.0	20.9	14.6								
G56.0	19.6	13.8								
G57.0	18.1	12.8								
G58.0	16.9	12.3								
G59.0	15.8	13.0								
G60.0	14.9	15.8								
G61.0	13.9	18.9								
G62.0	13.3	21.9								
G63.0	12.5	23.0								
G64.0	13.4	23.7								
G65.0	15.9	23.5								
G66.0	18.8	23.0								
G67.0	20.1	21.9								
G68.0	20.1	19.7								
G69.0	19.5	17.3								
G70.0	18.9	15.0								
G71.0	18.0	12.9								
G72.0	17.3	11.6								
G73.0	17.9	10.3								

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:

Unit: cd

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 m
Humidity:
Inspector: