

Report No.: 51.03022 Mini Recessed
Downlight

Test Time: 2024-10-13 18:32

Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.027 A

Power Factor: 0.551

Voltage: 238.3 V

Power: 3.60 W

Photometric Results

CIE Class: Direct

Measurement Flux: 213.4 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H53.1

Vertical Diffuse Angle(50%): V53.1

Luminaire Efficacy Rating (LER): 59

Max. Intensity: 256.3 cd

Total Rated Lamp Lumens: 213.4 lm

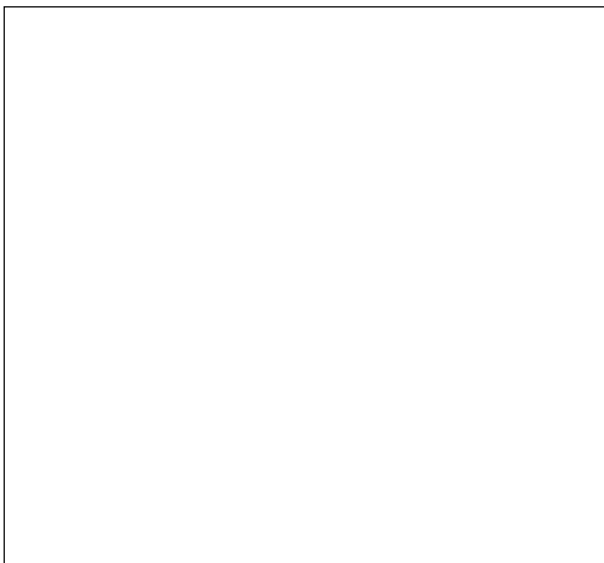
Efficiency: 100%

Upward Ratio: 0%

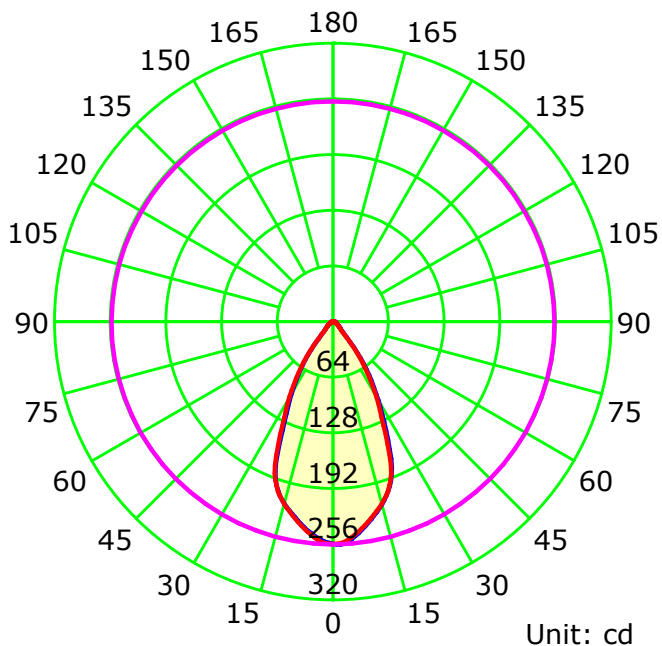
Central Intensity: 255.52 cd

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

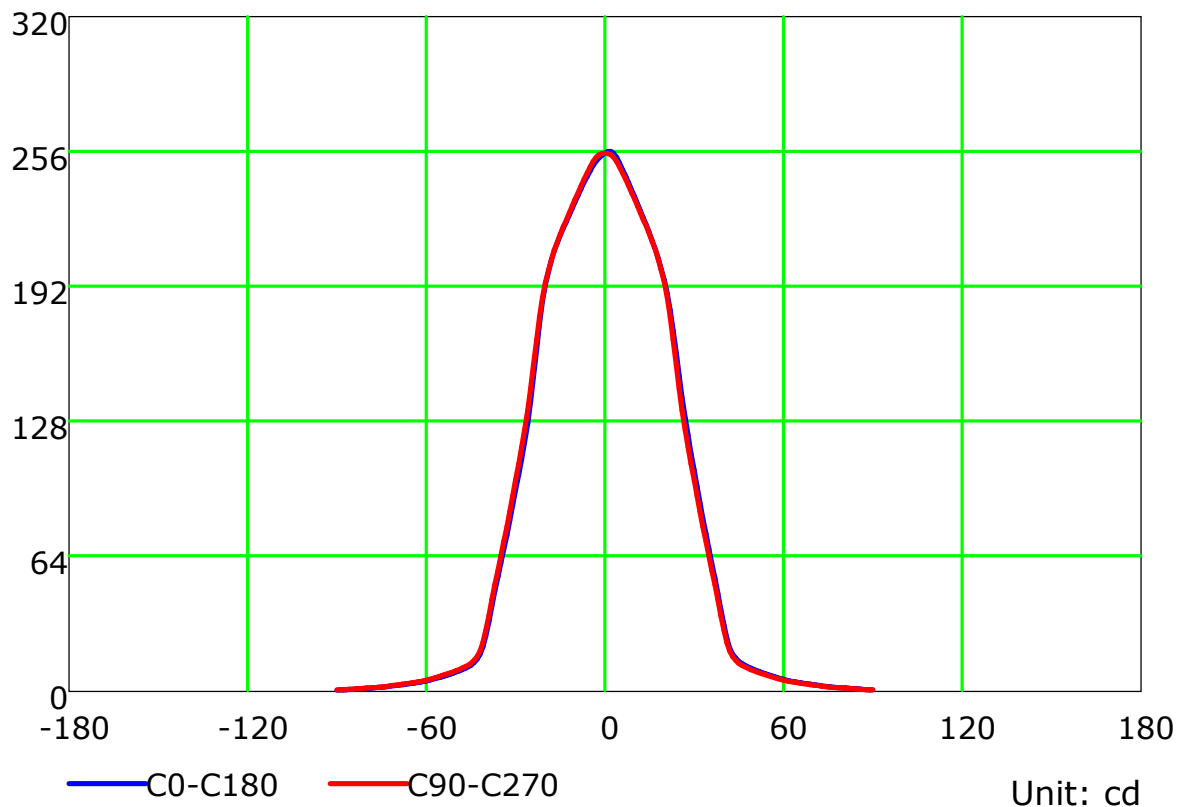
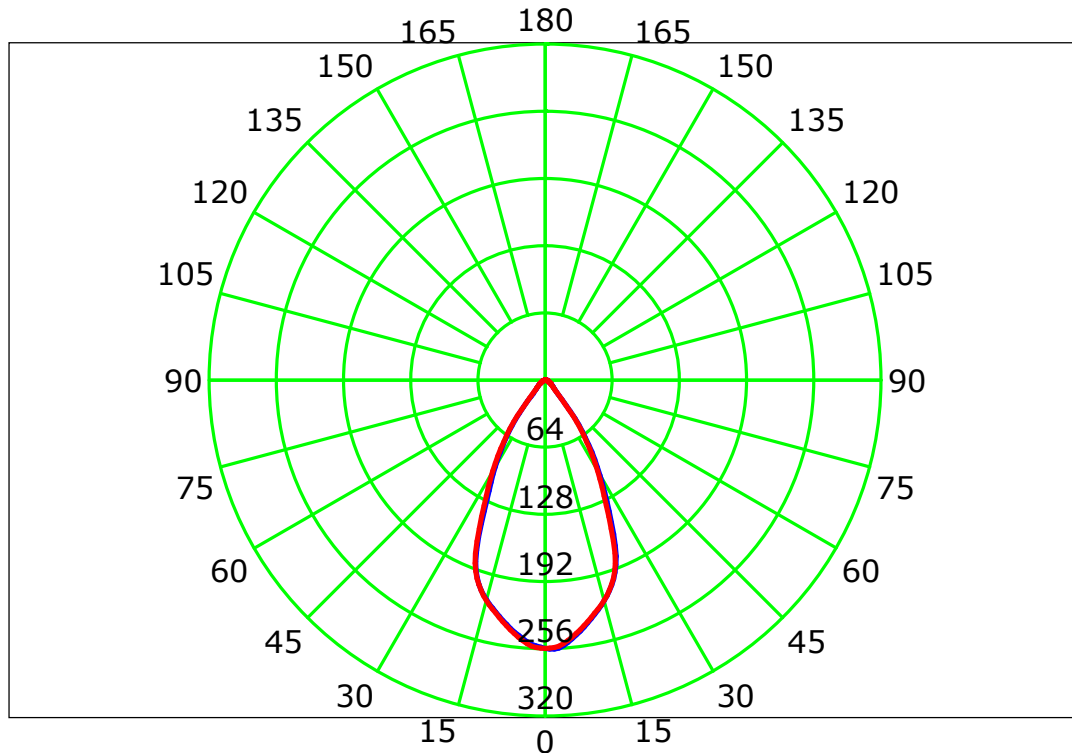
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

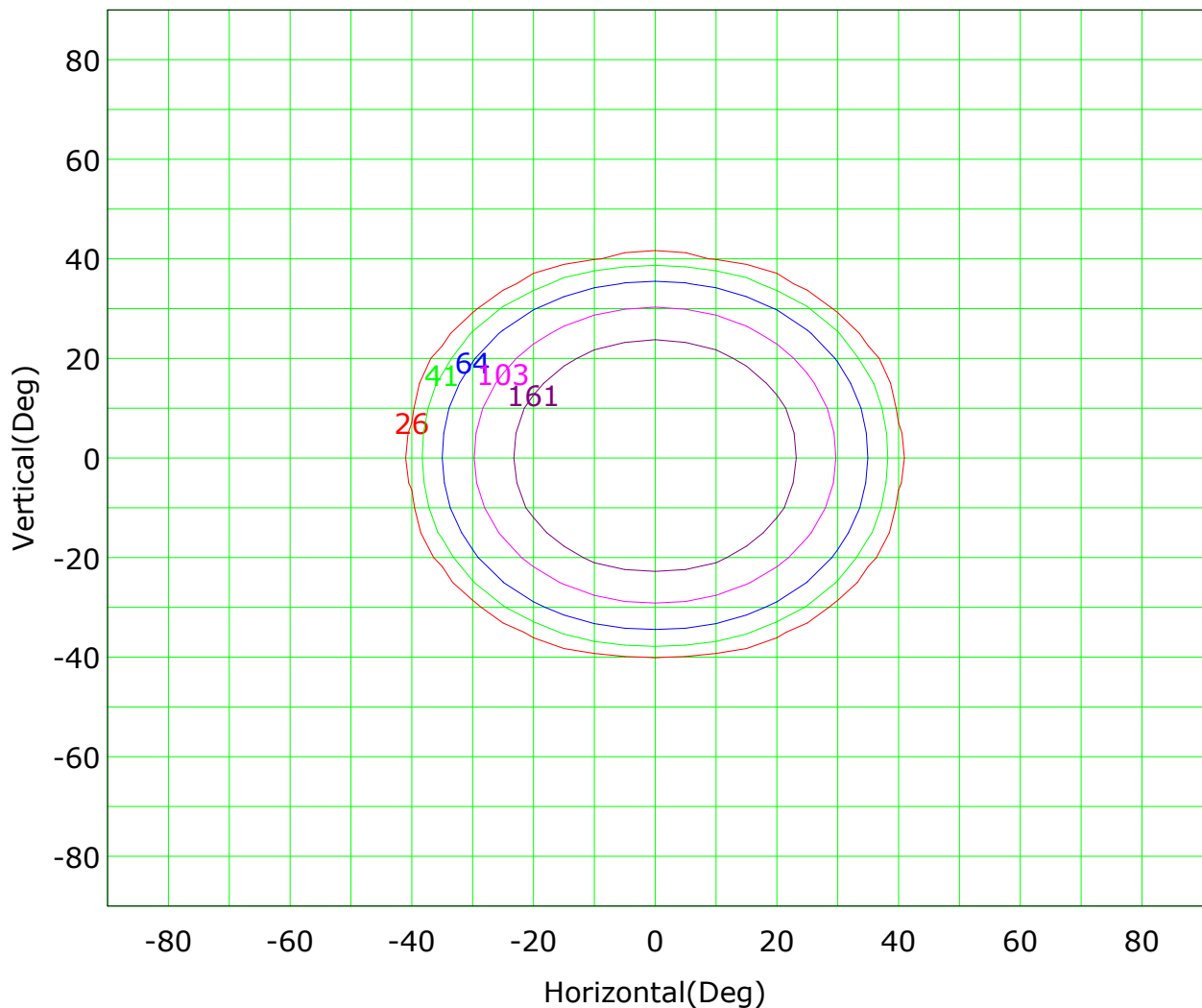
Luminous Intensity Distribution Curve



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%): 256 cd

(10%):	26 cd	(16%):	41 cd
(25%):	64 cd	(40%):	103 cd
(63%):	161 cd	(100%):	256 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

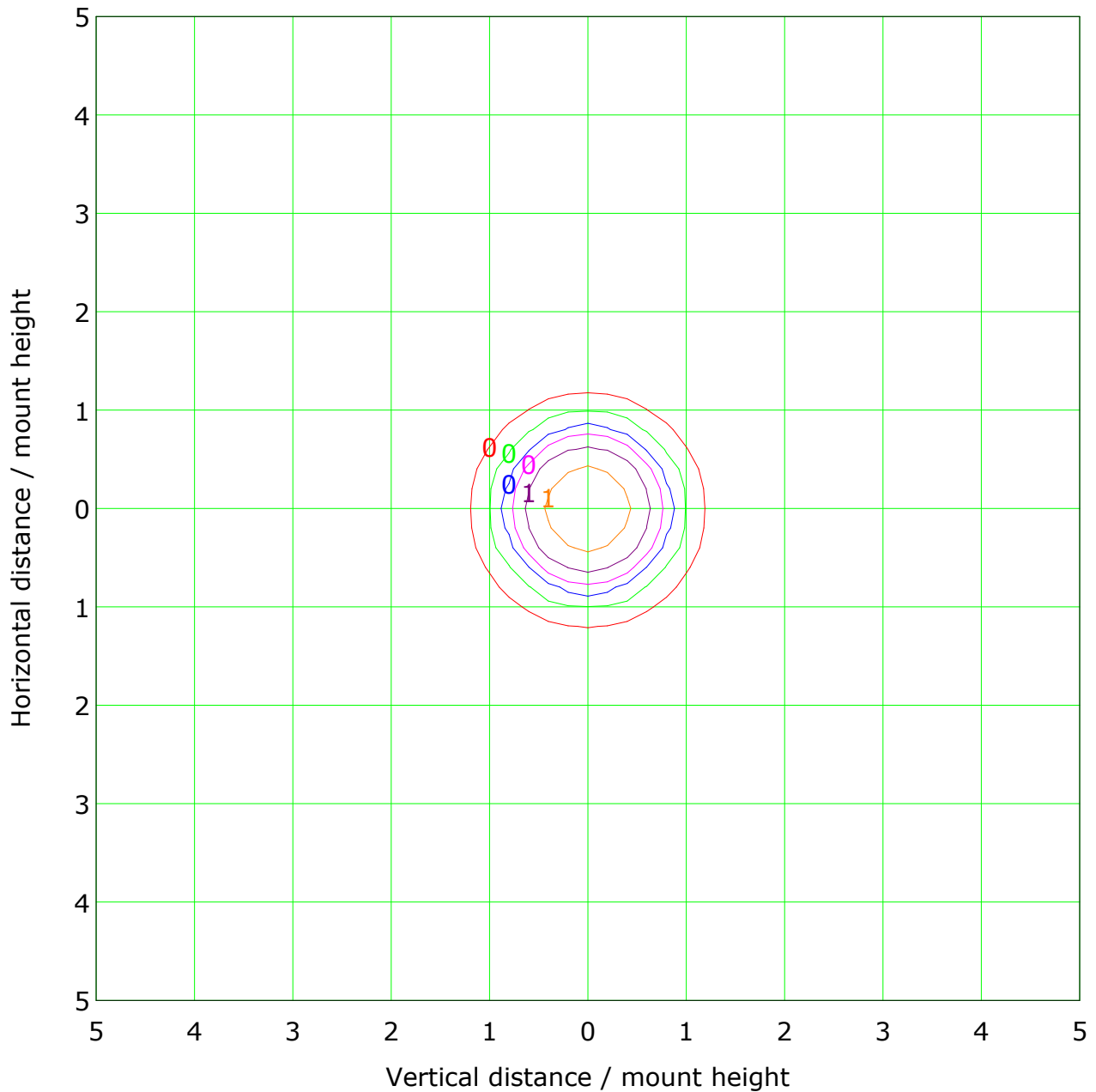
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



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

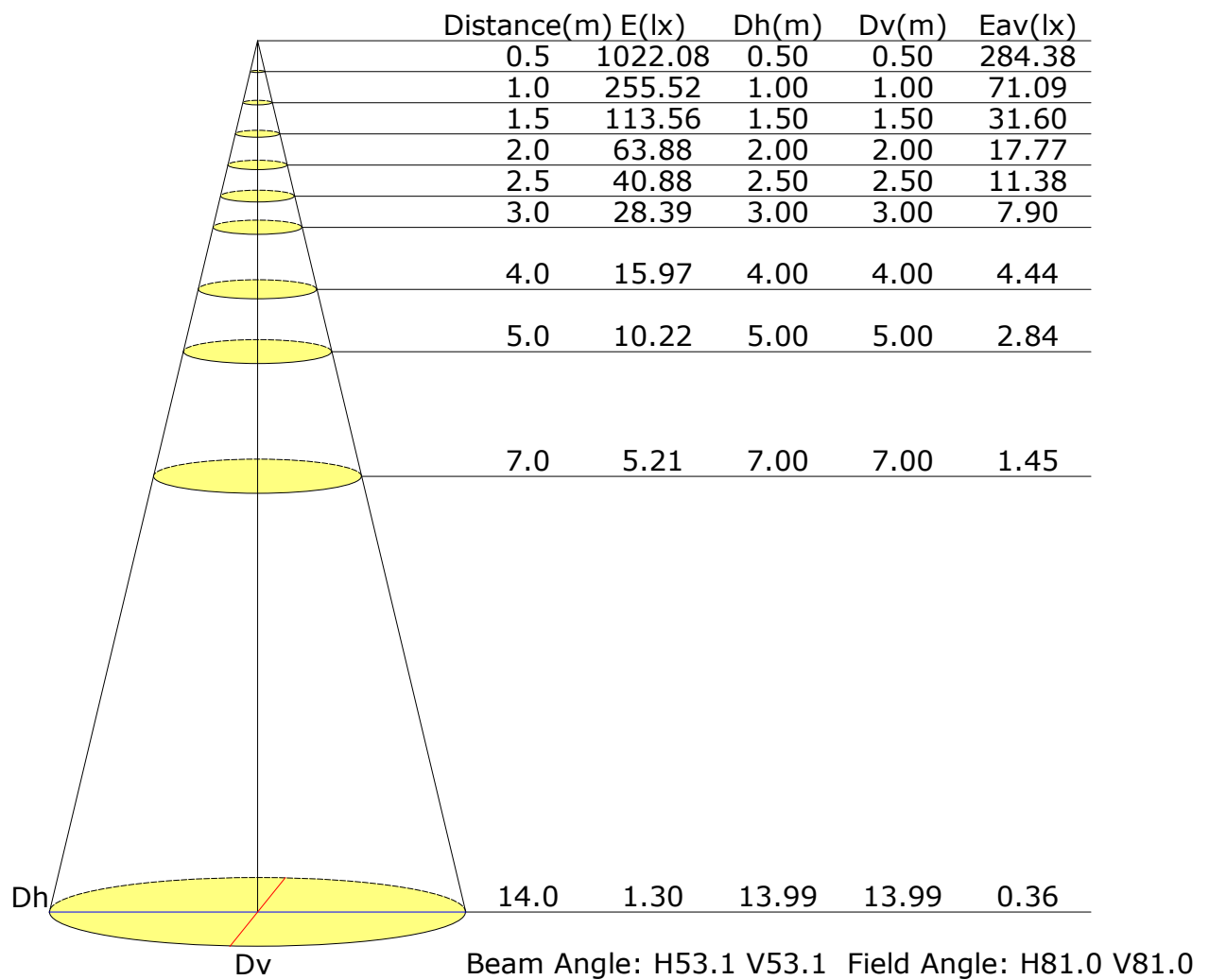
Test Device: CHL-6E

Distance: 3.328 m

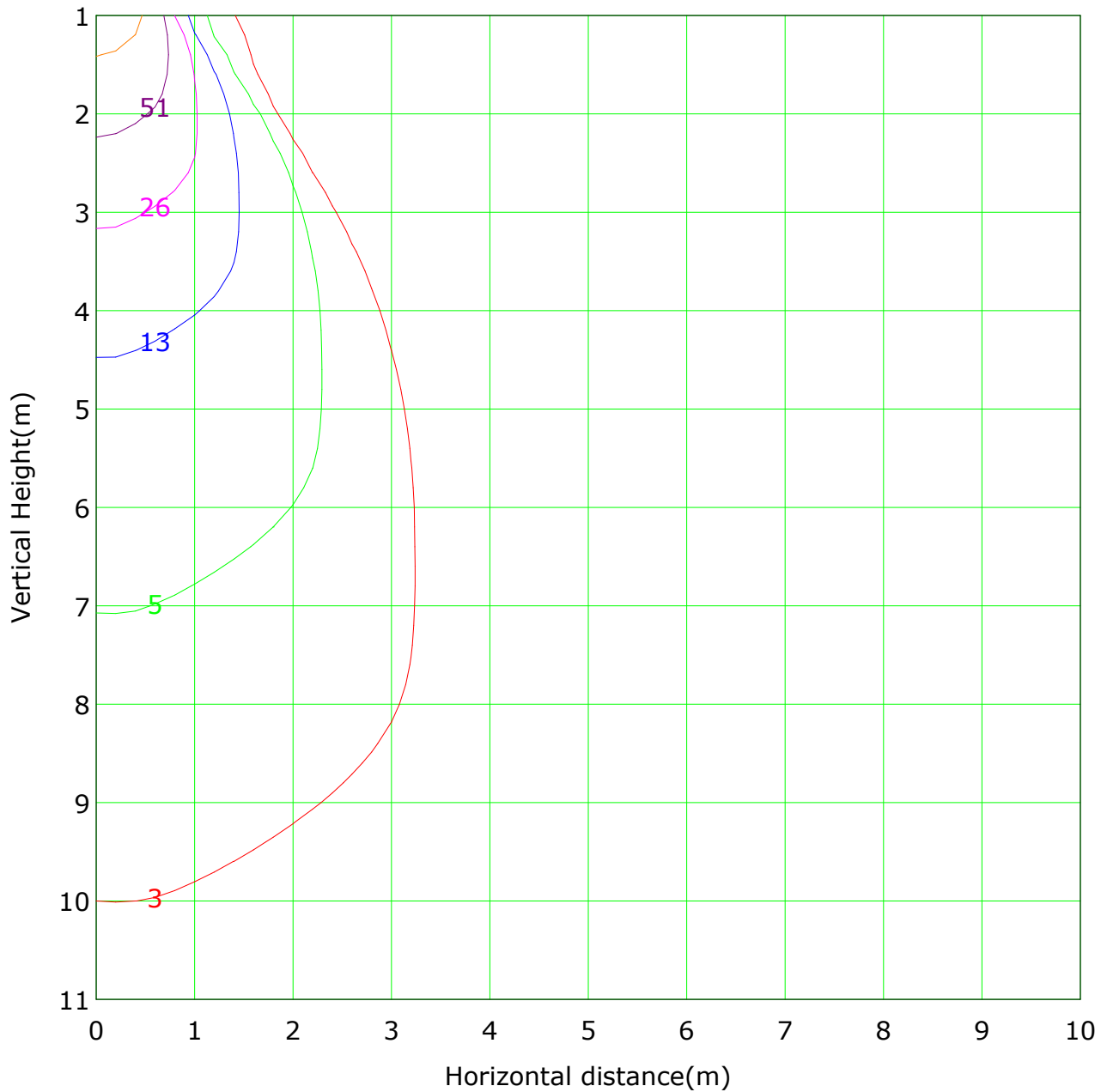
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



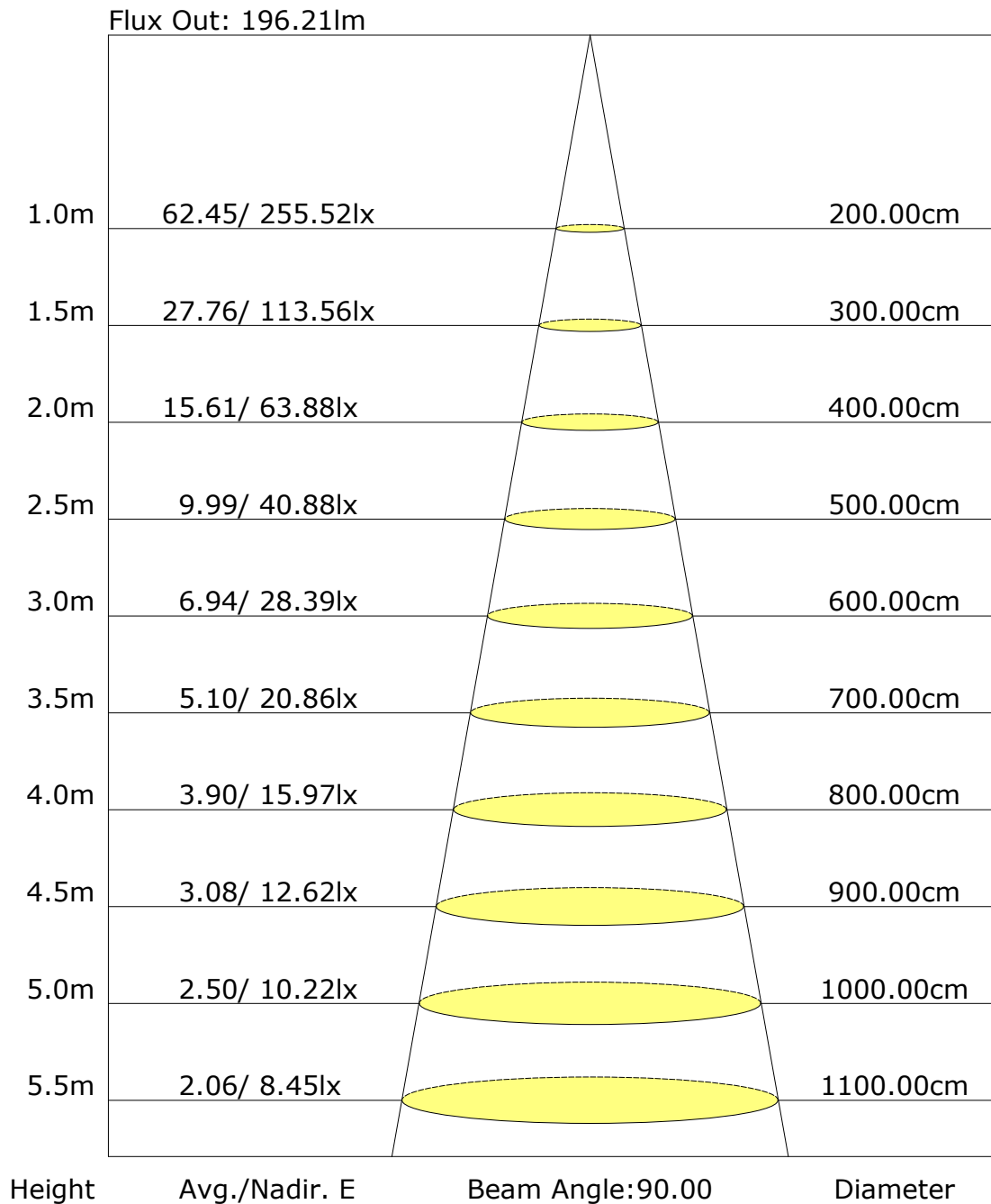
Lowest(m): 1m Highest(m): 11 Max Lux: 256

(1%): 3 lx	(2%): 5 lx
(5%): 13 lx	(10%): 26 lx
(20%): 51 lx	(50%): 128 lx
(100%): 256 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	255.4	0.2	0.2	0.11	0.11
1.0-2.0	255.1	0.7	1.0	0.34	0.46
2.0-3.0	254.2	1.2	2.2	0.57	1.03
3.0-4.0	252.6	1.7	3.9	0.79	1.82
4.0-5.0	250.2	2.2	6.0	1.01	2.83
5.0-6.0	247.5	2.6	8.6	1.22	4.05
6.0-7.0	244.6	3.0	11.7	1.42	5.47
7.0-8.0	241.6	3.5	15.1	1.62	7.09
8.0-9.0	238.5	3.9	19.0	1.81	8.90
9.0-10.0	235.2	4.3	23.3	1.99	10.90
10.0-11.0	232.0	4.6	27.9	2.17	13.07
11.0-12.0	228.7	5.0	32.9	2.34	15.41
12.0-13.0	225.5	5.4	38.2	2.51	17.92
13.0-14.0	222.2	5.7	43.9	2.67	20.58
14.0-15.0	218.9	6.0	49.9	2.82	23.40
15.0-16.0	215.3	6.3	56.3	2.96	26.35
16.0-17.0	211.4	6.6	62.8	3.09	29.44
17.0-18.0	207.2	6.8	69.7	3.20	32.64
18.0-19.0	202.4	7.0	76.7	3.30	35.94
19.0-20.0	196.9	7.2	83.9	3.38	39.32
20.0-21.0	190.4	7.3	91.2	3.43	42.74
21.0-22.0	182.4	7.3	98.6	3.43	46.18
22.0-23.0	172.4	7.2	105.8	3.39	49.57
23.0-24.0	161.0	7.0	112.8	3.30	52.86
24.0-25.0	149.4	6.8	119.6	3.18	56.05
25.0-26.0	138.4	6.5	126.2	3.06	59.11
26.0-27.0	128.5	6.3	132.4	2.95	62.05
27.0-28.0	119.8	6.1	138.5	2.84	64.90
28.0-29.0	111.8	5.8	144.4	2.74	67.64
29.0-30.0	104.0	5.6	150.0	2.63	70.27
30.0-31.0	96.4	5.4	155.3	2.51	72.78
31.0-32.0	88.9	5.1	160.4	2.39	75.17
32.0-33.0	81.5	4.8	165.2	2.25	77.42
33.0-34.0	74.3	4.5	169.7	2.11	79.52
34.0-35.0	67.4	4.2	173.9	1.96	81.48
35.0-36.0	60.6	3.9	177.8	1.81	83.29

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	53.8	3.5	181.3	1.64	84.94
37.0-38.0	46.8	3.1	184.4	1.46	86.40
38.0-39.0	39.5	2.7	187.1	1.26	87.66
39.0-40.0	32.3	2.2	189.4	1.05	88.72
40.0-41.0	25.8	1.8	191.2	0.86	89.58
41.0-42.0	20.8	1.5	192.7	0.71	90.29
42.0-43.0	17.4	1.3	194.0	0.61	90.89
43.0-44.0	15.3	1.2	195.2	0.54	91.43
44.0-45.0	13.7	1.1	196.2	0.49	91.92
45.0-46.0	12.6	1.0	197.2	0.46	92.39
46.0-47.0	11.7	0.9	198.1	0.44	92.82
47.0-48.0	11.0	0.9	199.0	0.42	93.24
48.0-49.0	10.4	0.9	199.9	0.40	93.64
49.0-50.0	9.8	0.8	200.7	0.38	94.02
50.0-51.0	9.2	0.8	201.5	0.37	94.39
51.0-52.0	8.7	0.7	202.2	0.35	94.74
52.0-53.0	8.2	0.7	202.9	0.33	95.07
53.0-54.0	7.7	0.7	203.6	0.32	95.39
54.0-55.0	7.2	0.6	204.2	0.30	95.69
55.0-56.0	6.8	0.6	204.9	0.29	95.98
56.0-57.0	6.4	0.6	205.4	0.27	96.25
57.0-58.0	6.0	0.6	206.0	0.26	96.51
58.0-59.0	5.6	0.5	206.5	0.24	96.75
59.0-60.0	5.2	0.5	207.0	0.23	96.98
60.0-61.0	4.9	0.5	207.5	0.22	97.20
61.0-62.0	4.5	0.4	207.9	0.20	97.41
62.0-63.0	4.3	0.4	208.3	0.19	97.60
63.0-64.0	4.0	0.4	208.7	0.18	97.78
64.0-65.0	3.8	0.4	209.1	0.18	97.96
65.0-66.0	3.6	0.4	209.4	0.17	98.13
66.0-67.0	3.4	0.3	209.8	0.16	98.29
67.0-68.0	3.2	0.3	210.1	0.15	98.44
68.0-69.0	3.0	0.3	210.4	0.14	98.58
69.0-70.0	2.8	0.3	210.7	0.13	98.71
70.0-71.0	2.6	0.3	211.0	0.12	98.84
71.0-72.0	2.4	0.2	211.2	0.12	98.95

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	255.5	255.5								
G1.0	256.2	254.5								
G2.0	256.3	253.4								
G3.0	255.4	251.8								
G4.0	253.5	249.6								
G5.0	250.7	247.1								
G6.0	247.8	244.4								
G7.0	244.6	241.7								
G8.0	241.4	238.8								
G9.0	238.0	235.7								
G10.0	234.8	232.5								
G11.0	231.4	229.3								
G12.0	228.0	226.2								
G13.0	224.7	223.0								
G14.0	221.3	219.9								
G15.0	217.6	216.6								
G16.0	213.8	213.1								
G17.0	209.7	209.2								
G18.0	205.3	204.7								
G19.0	200.4	199.3								
G20.0	195.0	192.9								
G21.0	188.6	185.1								
G22.0	180.9	174.8								
G23.0	171.4	162.3								
G24.0	160.7	149.4								
G25.0	149.8	137.4								
G26.0	139.4	127.0								
G27.0	129.6	118.1								
G28.0	121.3	110.2								
G29.0	112.8	102.8								
G30.0	104.8	95.5								
G31.0	97.0	88.2								
G32.0	89.4	81.0								
G33.0	81.8	73.9								
G34.0	74.4	67.2								
G35.0	67.4	60.6								
G36.0	60.4	54.0								

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:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	53.4	47.3								
G38.0	46.2	40.3								
G39.0	38.7	33.0								
G40.0	31.2	26.1								
G41.0	24.9	20.8								
G42.0	20.2	17.3								
G43.0	17.3	15.0								
G44.0	15.4	13.4								
G45.0	14.0	12.2								
G46.0	12.9	11.3								
G47.0	12.1	10.6								
G48.0	11.4	9.9								
G49.0	10.7	9.4								
G50.0	10.1	8.9								
G51.0	9.6	8.4								
G52.0	9.0	7.9								
G53.0	8.5	7.4								
G54.0	8.0	6.9								
G55.0	7.5	6.5								
G56.0	7.1	6.1								
G57.0	6.6	5.7								
G58.0	6.1	5.4								
G59.0	5.7	5.0								
G60.0	5.3	4.7								
G61.0	5.0	4.4								
G62.0	4.7	4.1								
G63.0	4.4	3.8								
G64.0	4.2	3.6								
G65.0	3.9	3.4								
G66.0	3.7	3.2								
G67.0	3.5	3.0								
G68.0	3.3	2.9								
G69.0	3.1	2.7								
G70.0	2.8	2.5								
G71.0	2.6	2.3								
G72.0	2.4	2.1								
G73.0	2.3	2.0								

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: