

Report No.: 60.04012 Mini Recessed
Downlight

Test Time: 2024-10-13 18:23

Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.048 A

Power Factor: 0.674

Voltage: 236.3 V

Power: 7.60 W

Photometric Results

CIE Class: Direct

Measurement Flux: 444.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H24.1

Vertical Diffuse Angle(50%): V24.1

Luminaire Efficacy Rating (LER): 58

Max. Intensity: 2092.13 cd

Total Rated Lamp Lumens: 444.5 lm

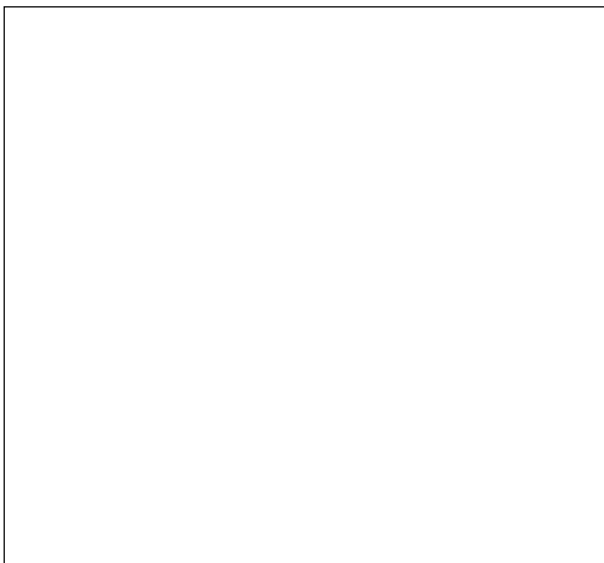
Efficiency: 100%

Upward Ratio: 0%

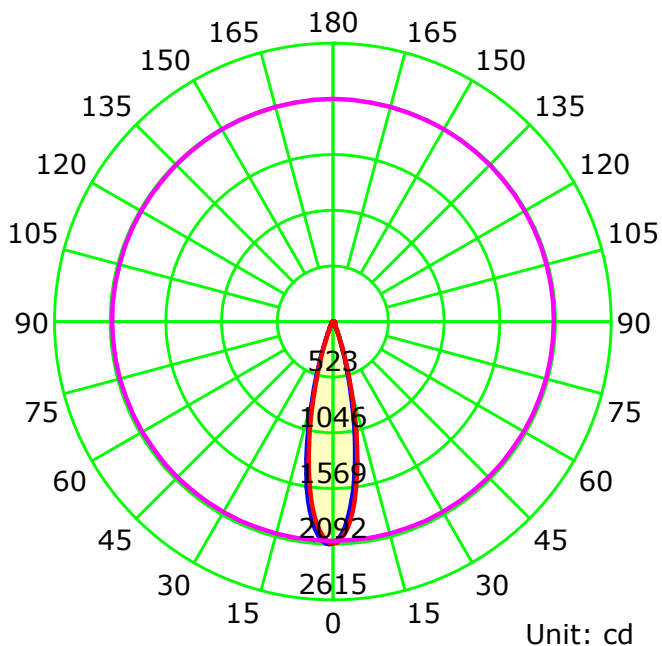
Central Intensity: 2084.43 cd

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

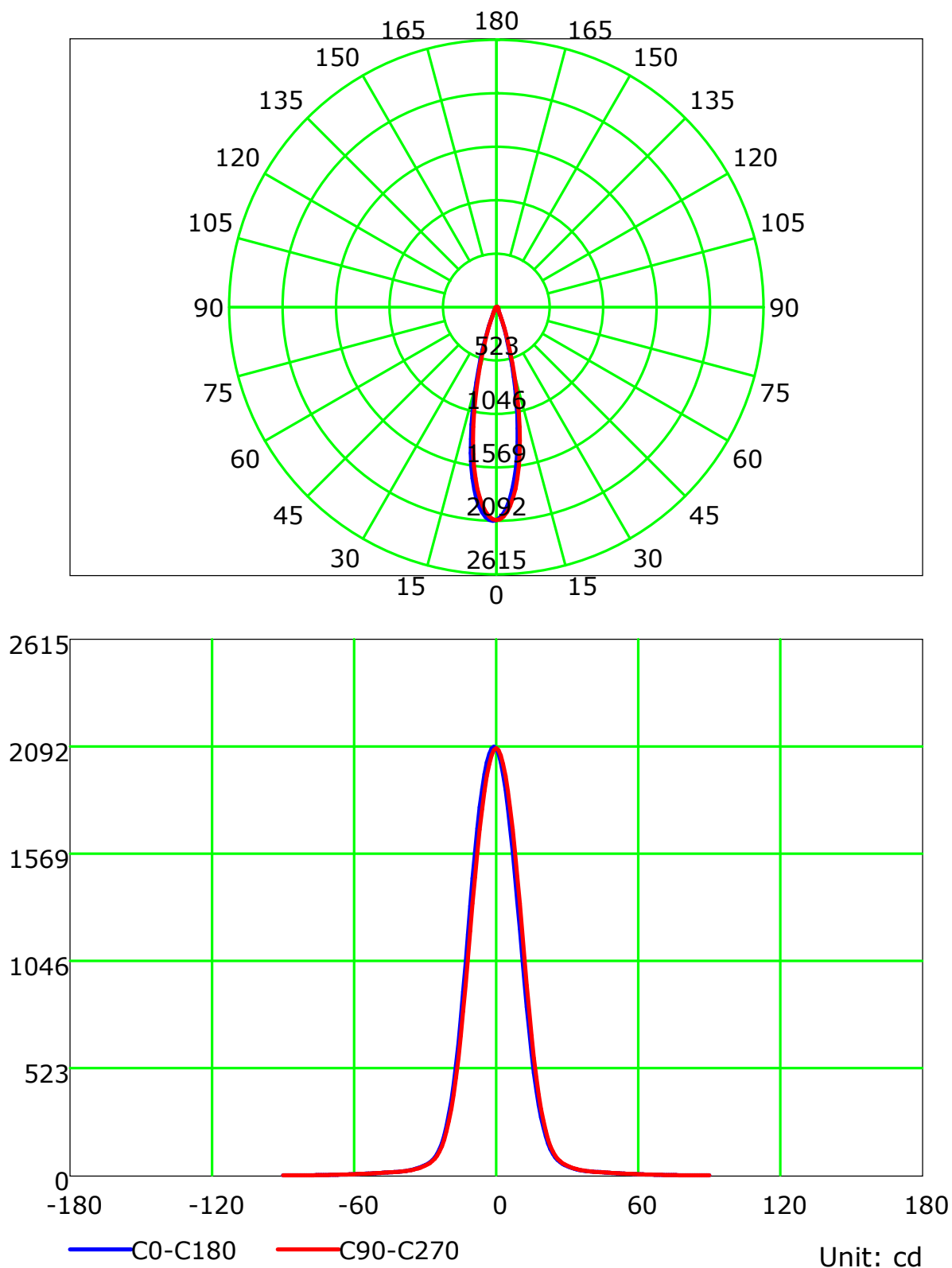
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

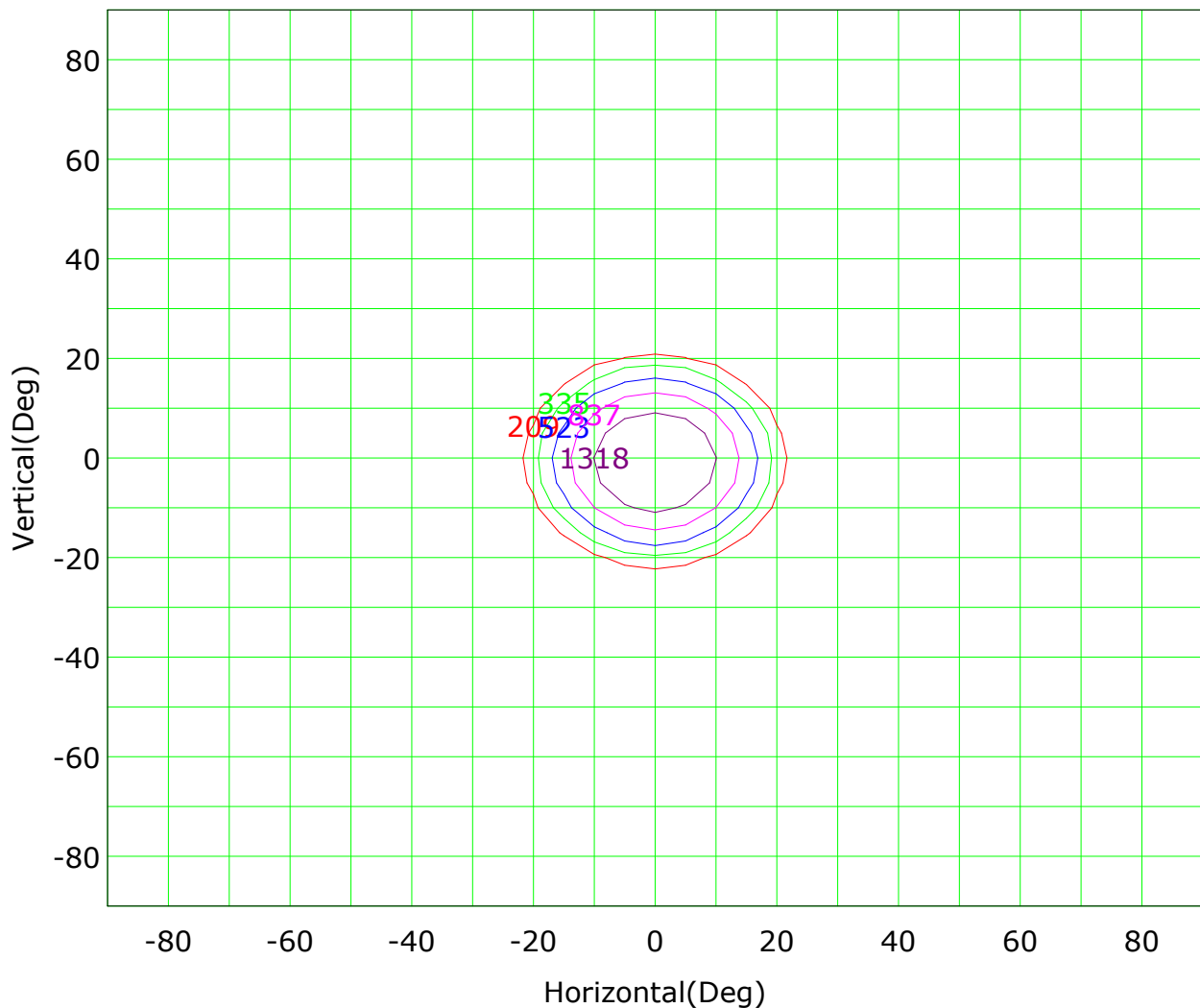
Luminous Intensity Distribution Curve



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%): 2092 cd

(10%): 209 cd	(16%): 335 cd
(25%): 523 cd	(40%): 837 cd
(63%): 1318 cd	(100%): 2092 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

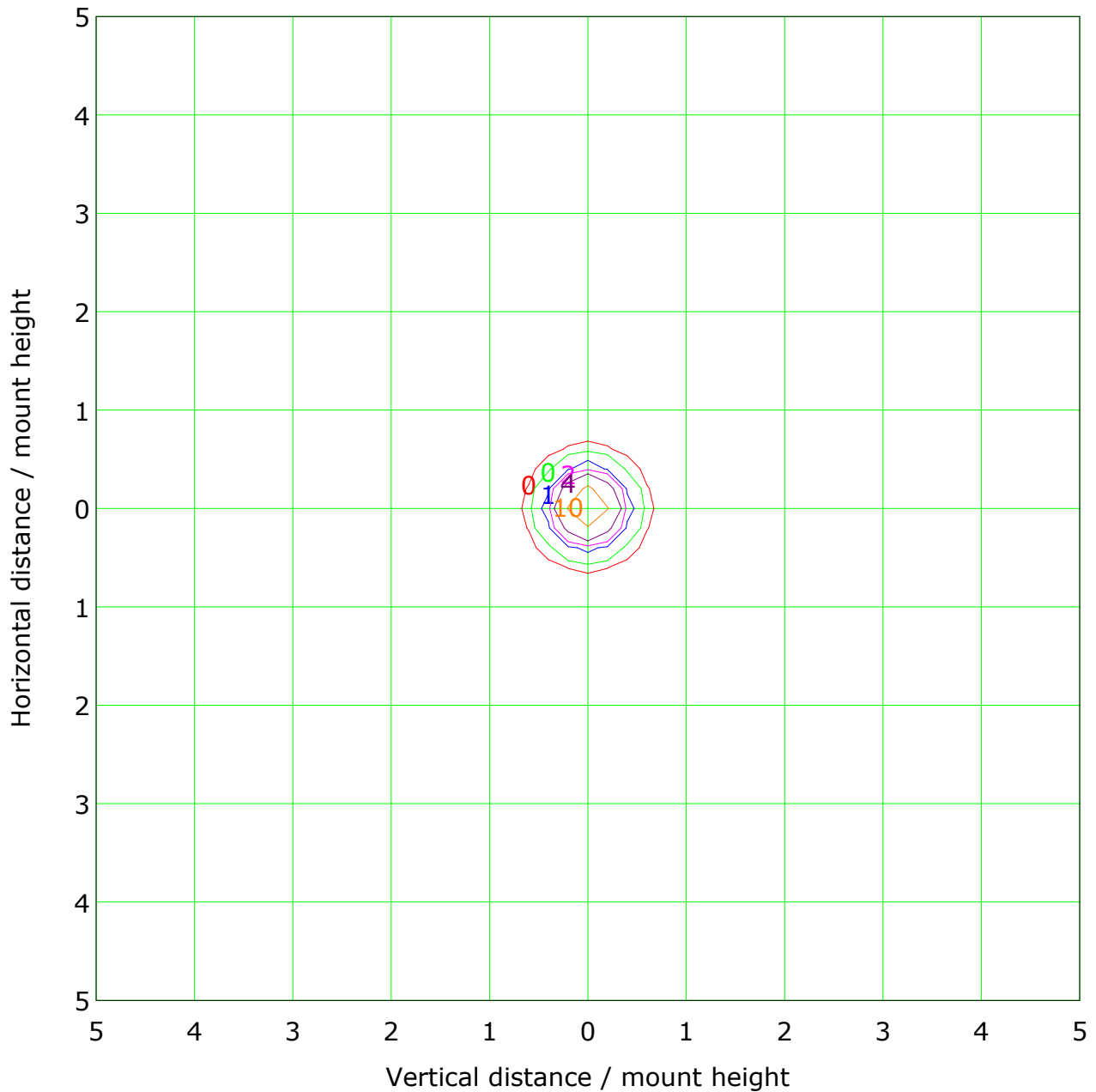
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

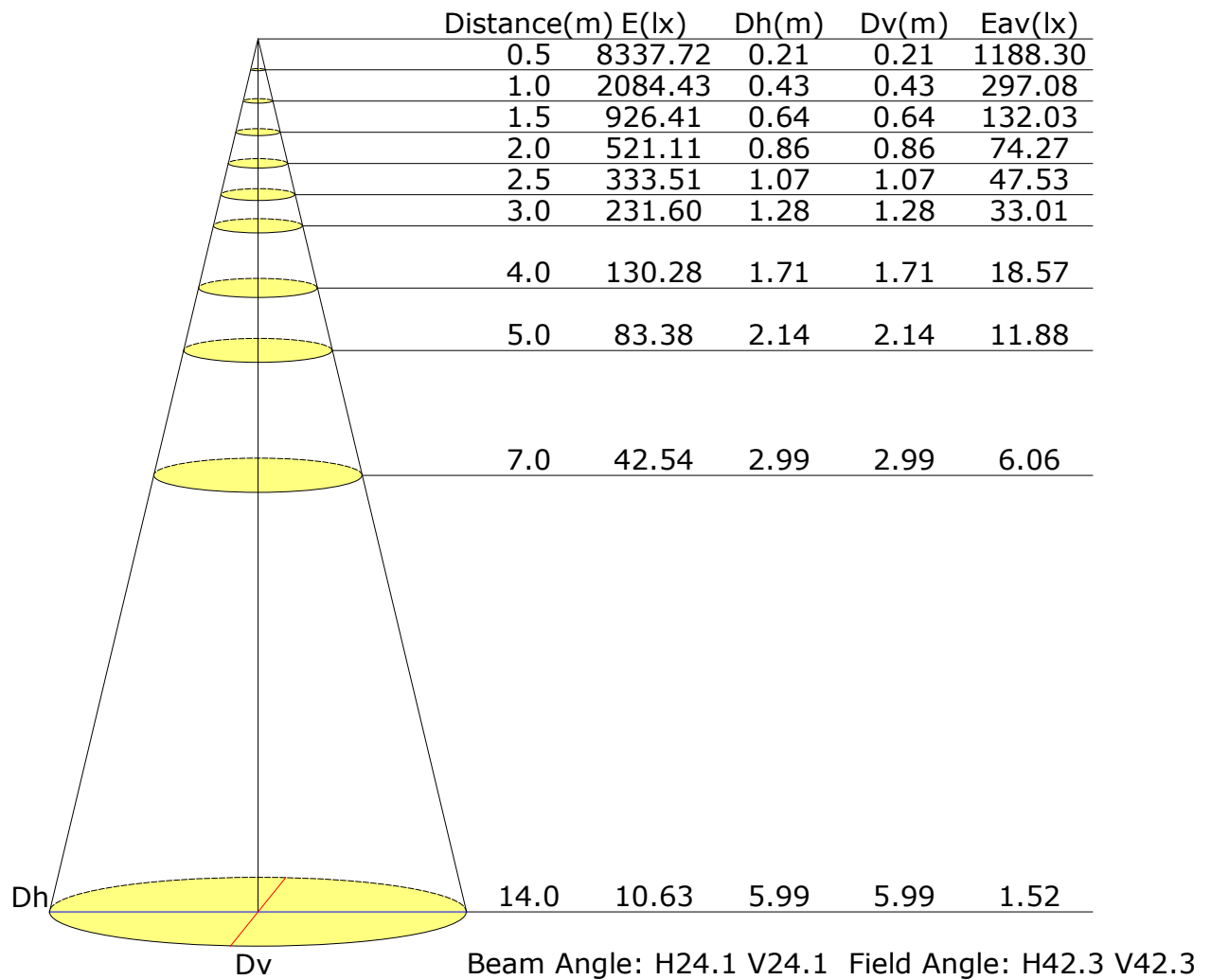


Mounting Height: 10m		Max Lux(100%): 21 lx	
(1%):	0 lx	(2%):	0 lx
(5%):	1 lx	(10%):	2 lx
(20%):	4 lx	(50%):	10 lx
(100%):	21 lx		

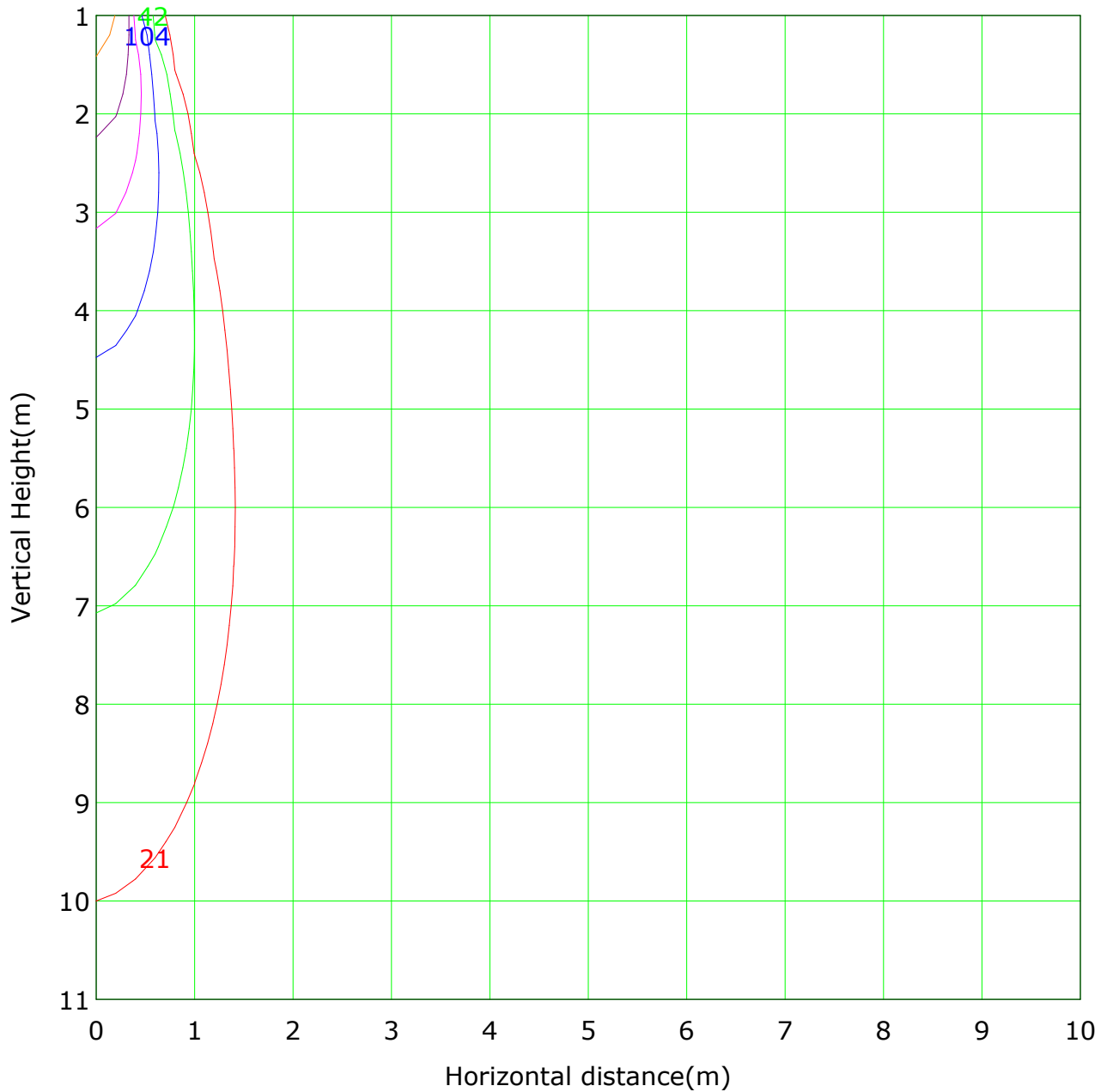
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 2084	
(1%): 21 lx	(2%): 42 lx
(5%): 104 lx	(10%): 208 lx
(20%): 417 lx	(50%): 1042 lx
(100%): 2084 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

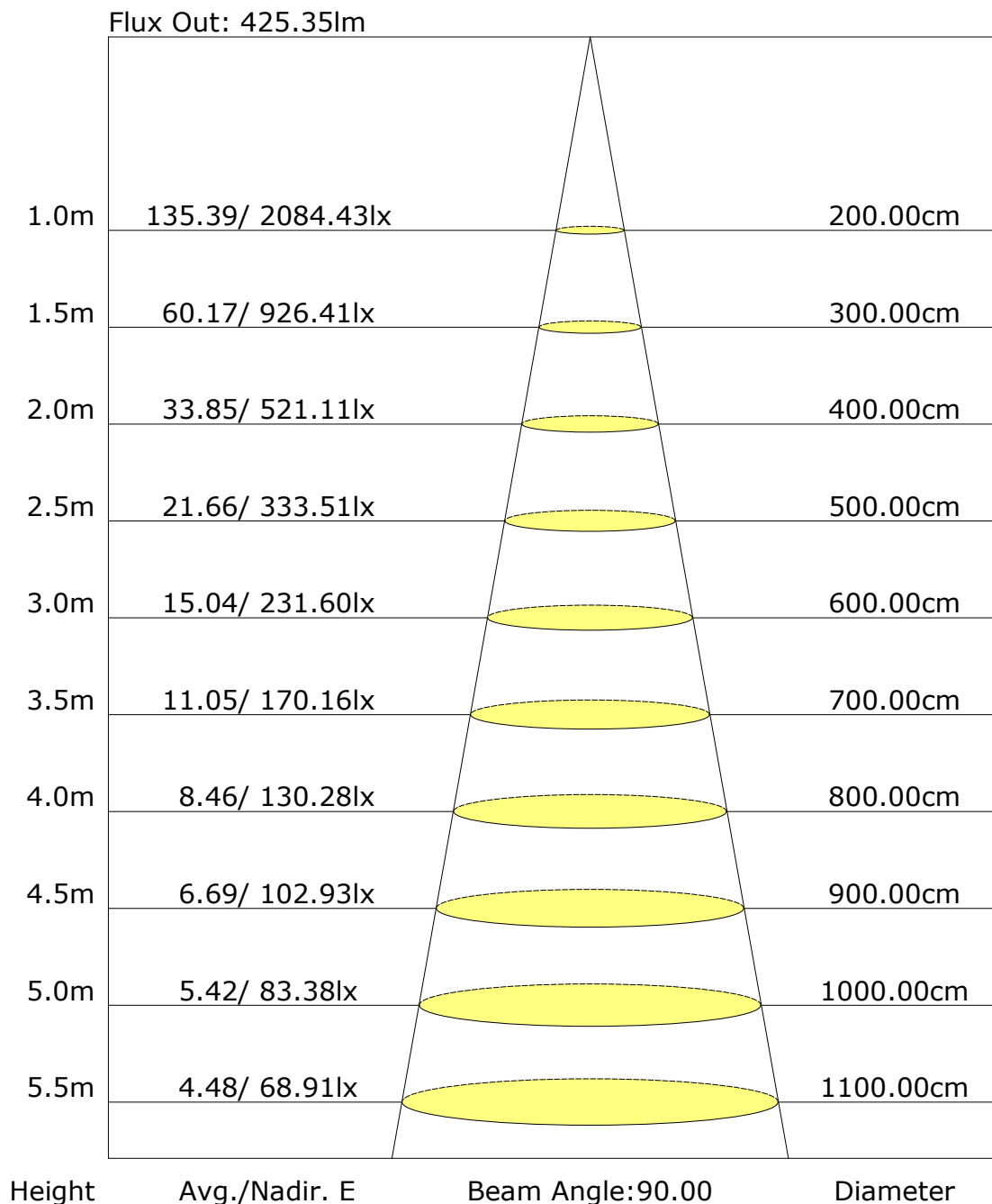
Test Device: CHL-6E

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	2080.1	2.0	2.0	0.45	0.45
1.0-2.0	2062.6	5.9	7.9	1.33	1.78
2.0-3.0	2028.3	9.7	17.6	2.18	3.96
3.0-4.0	1977.7	13.2	30.9	2.98	6.94
4.0-5.0	1911.7	16.4	47.3	3.70	10.64
5.0-6.0	1831.4	19.2	66.6	4.33	14.97
6.0-7.0	1737.6	21.6	88.1	4.85	19.82
7.0-8.0	1631.4	23.4	111.5	5.25	25.08
8.0-9.0	1515.3	24.6	136.0	5.53	30.60
9.0-10.0	1391.0	25.2	161.2	5.66	36.27
10.0-11.0	1260.2	25.2	186.4	5.67	41.93
11.0-12.0	1126.5	24.6	211.0	5.54	47.47
12.0-13.0	993.3	23.6	234.6	5.30	52.78
13.0-14.0	863.7	22.1	256.7	4.97	57.75
14.0-15.0	741.0	20.3	277.1	4.58	62.33
15.0-16.0	627.1	18.4	295.4	4.13	66.46
16.0-17.0	524.5	16.3	311.8	3.67	70.14
17.0-18.0	435.2	14.3	326.1	3.23	73.36
18.0-19.0	359.2	12.5	338.6	2.81	76.18
19.0-20.0	295.1	10.8	349.4	2.43	78.61
20.0-21.0	241.1	9.3	358.7	2.08	80.69
21.0-22.0	195.7	7.9	366.5	1.77	82.46
22.0-23.0	158.6	6.7	373.2	1.50	83.96
23.0-24.0	129.2	5.6	378.8	1.27	85.23
24.0-25.0	106.3	4.8	383.7	1.09	86.31
25.0-26.0	88.8	4.2	387.9	0.94	87.26
26.0-27.0	75.5	3.7	391.6	0.83	88.09
27.0-28.0	65.3	3.3	394.9	0.74	88.83
28.0-29.0	57.2	3.0	397.9	0.67	89.50
29.0-30.0	50.6	2.7	400.6	0.61	90.12
30.0-31.0	45.1	2.5	403.1	0.56	90.68
31.0-32.0	40.5	2.3	405.4	0.52	91.20
32.0-33.0	36.4	2.1	407.6	0.48	91.69
33.0-34.0	32.9	2.0	409.6	0.45	92.14
34.0-35.0	29.8	1.9	411.4	0.42	92.55
35.0-36.0	27.0	1.7	413.1	0.39	92.94

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	24.7	1.6	414.7	0.36	93.30
37.0-38.0	22.7	1.5	416.3	0.34	93.64
38.0-39.0	21.0	1.4	417.7	0.32	93.96
39.0-40.0	19.8	1.4	419.1	0.31	94.28
40.0-41.0	18.6	1.3	420.4	0.30	94.57
41.0-42.0	17.6	1.3	421.7	0.29	94.86
42.0-43.0	16.8	1.2	422.9	0.28	95.14
43.0-44.0	16.3	1.2	424.2	0.28	95.42
44.0-45.0	15.5	1.2	425.3	0.27	95.69
45.0-46.0	14.7	1.2	426.5	0.26	95.94
46.0-47.0	14.1	1.1	427.6	0.25	96.20
47.0-48.0	13.4	1.1	428.7	0.24	96.44
48.0-49.0	12.7	1.0	429.7	0.23	96.67
49.0-50.0	12.1	1.0	430.8	0.23	96.90
50.0-51.0	11.4	1.0	431.7	0.22	97.12
51.0-52.0	10.7	0.9	432.6	0.21	97.33
52.0-53.0	10.1	0.9	433.5	0.20	97.52
53.0-54.0	9.6	0.8	434.4	0.19	97.71
54.0-55.0	9.0	0.8	435.2	0.18	97.89
55.0-56.0	8.4	0.8	435.9	0.17	98.07
56.0-57.0	7.9	0.7	436.6	0.16	98.23
57.0-58.0	7.4	0.7	437.3	0.15	98.38
58.0-59.0	6.8	0.6	438.0	0.14	98.52
59.0-60.0	6.3	0.6	438.5	0.13	98.66
60.0-61.0	5.8	0.6	439.1	0.13	98.78
61.0-62.0	5.4	0.5	439.6	0.12	98.90
62.0-63.0	5.0	0.5	440.1	0.11	99.01
63.0-64.0	4.6	0.5	440.6	0.10	99.11
64.0-65.0	4.3	0.4	441.0	0.09	99.20
65.0-66.0	4.0	0.4	441.4	0.09	99.29
66.0-67.0	3.7	0.4	441.8	0.08	99.38
67.0-68.0	3.4	0.3	442.1	0.08	99.45
68.0-69.0	3.1	0.3	442.4	0.07	99.52
69.0-70.0	2.8	0.3	442.7	0.06	99.59
70.0-71.0	2.5	0.3	443.0	0.06	99.65
71.0-72.0	2.2	0.2	443.2	0.05	99.70

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:

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	2084.4	2084.4								
G1.0	2059.2	2092.1								
G2.0	2016.7	2082.6								
G3.0	1957.2	2056.6								
G4.0	1882.4	2014.7								
G5.0	1792.4	1957.4								
G6.0	1691.5	1884.3								
G7.0	1579.2	1795.3								
G8.0	1458.7	1692.5								
G9.0	1333.5	1576.7								
G10.0	1204.6	1449.4								
G11.0	1072.5	1314.3								
G12.0	944.9	1174.4								
G13.0	821.8	1032.2								
G14.0	705.7	895.2								
G15.0	597.4	765.6								
G16.0	499.9	645.4								
G17.0	414.8	537.7								
G18.0	343.8	444.5								
G19.0	283.9	364.6								
G20.0	233.5	298.2								
G21.0	190.8	241.8								
G22.0	155.2	195.0								
G23.0	126.8	157.4								
G24.0	104.8	127.8								
G25.0	88.1	104.5								
G26.0	75.0	87.4								
G27.0	65.1	74.5								
G28.0	57.1	64.6								
G29.0	50.4	56.7								
G30.0	44.9	50.2								
G31.0	40.5	44.8								
G32.0	36.4	40.2								
G33.0	32.8	36.4								
G34.0	29.7	32.8								
G35.0	26.9	29.8								
G36.0	24.6	26.8								

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	22.6	24.7								
G38.0	21.1	22.2								
G39.0	20.1	20.7								
G40.0	18.9	19.5								
G41.0	17.9	18.3								
G42.0	17.0	17.3								
G43.0	16.5	16.5								
G44.0	16.3	15.8								
G45.0	15.0	15.0								
G46.0	14.4	14.4								
G47.0	13.7	13.9								
G48.0	13.0	12.9								
G49.0	12.4	12.4								
G50.0	11.8	11.8								
G51.0	10.9	11.2								
G52.0	10.3	10.6								
G53.0	9.8	9.9								
G54.0	9.1	9.4								
G55.0	8.6	8.8								
G56.0	8.1	8.1								
G57.0	7.6	7.7								
G58.0	7.1	7.1								
G59.0	6.5	6.5								
G60.0	6.1	6.1								
G61.0	5.5	5.7								
G62.0	5.2	5.3								
G63.0	4.6	4.8								
G64.0	4.5	4.5								
G65.0	4.1	4.0								
G66.0	4.0	3.8								
G67.0	3.5	3.5								
G68.0	3.2	3.2								
G69.0	2.9	3.0								
G70.0	2.6	2.7								
G71.0	2.4	2.5								
G72.0	2.0	2.1								
G73.0	1.9	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: