

Report No.:

Test Time: 2026-07-11 15:21

Luminaire Property

Luminaire Category:

Luminaire Description: 13*18

Width (mm): -10

Current: 0.052 A

Power Factor: 0.923

Length (mm): -475

Voltage: 230.3 V

Power: 11.10 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1283.6 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H68.7

Vertical Diffuse Angle(50%): V68.7

Luminaire Efficacy Rating (LER): 116

Max. Intensity: 1065.99 cd

Total Rated Lamp Lumens: 1283.6 lm

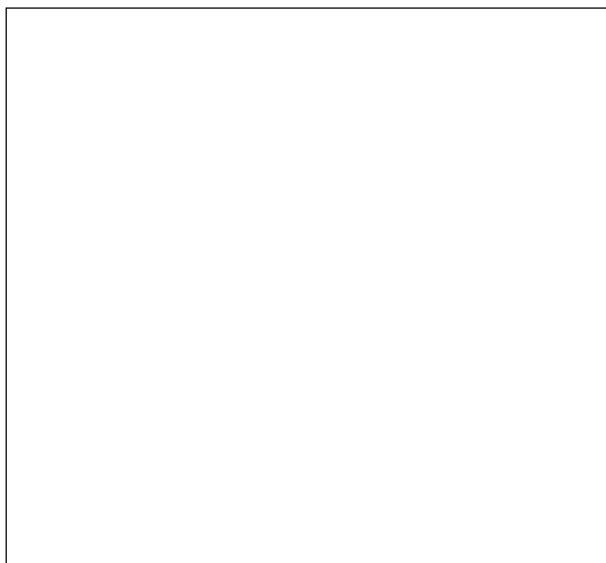
Efficiency: 100%

Upward Ratio: 0%

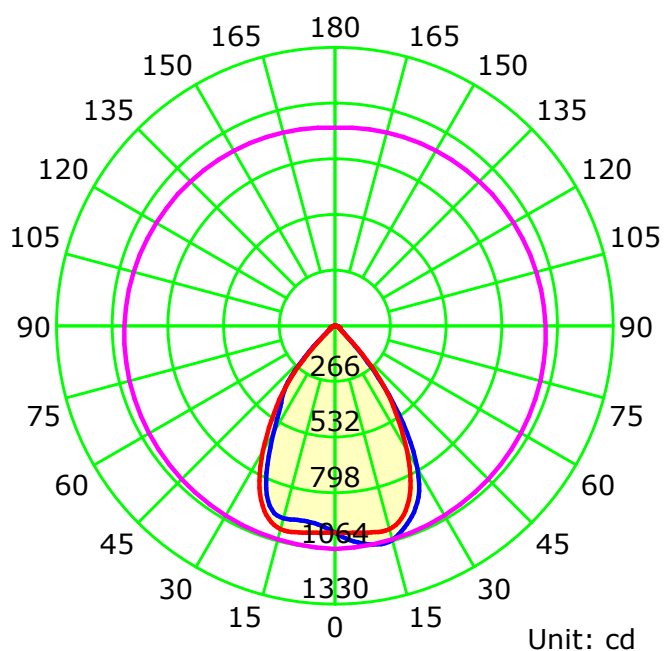
Central Intensity: 988.37 cd

Pos of Max. Intensity: H0 V12

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G12

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

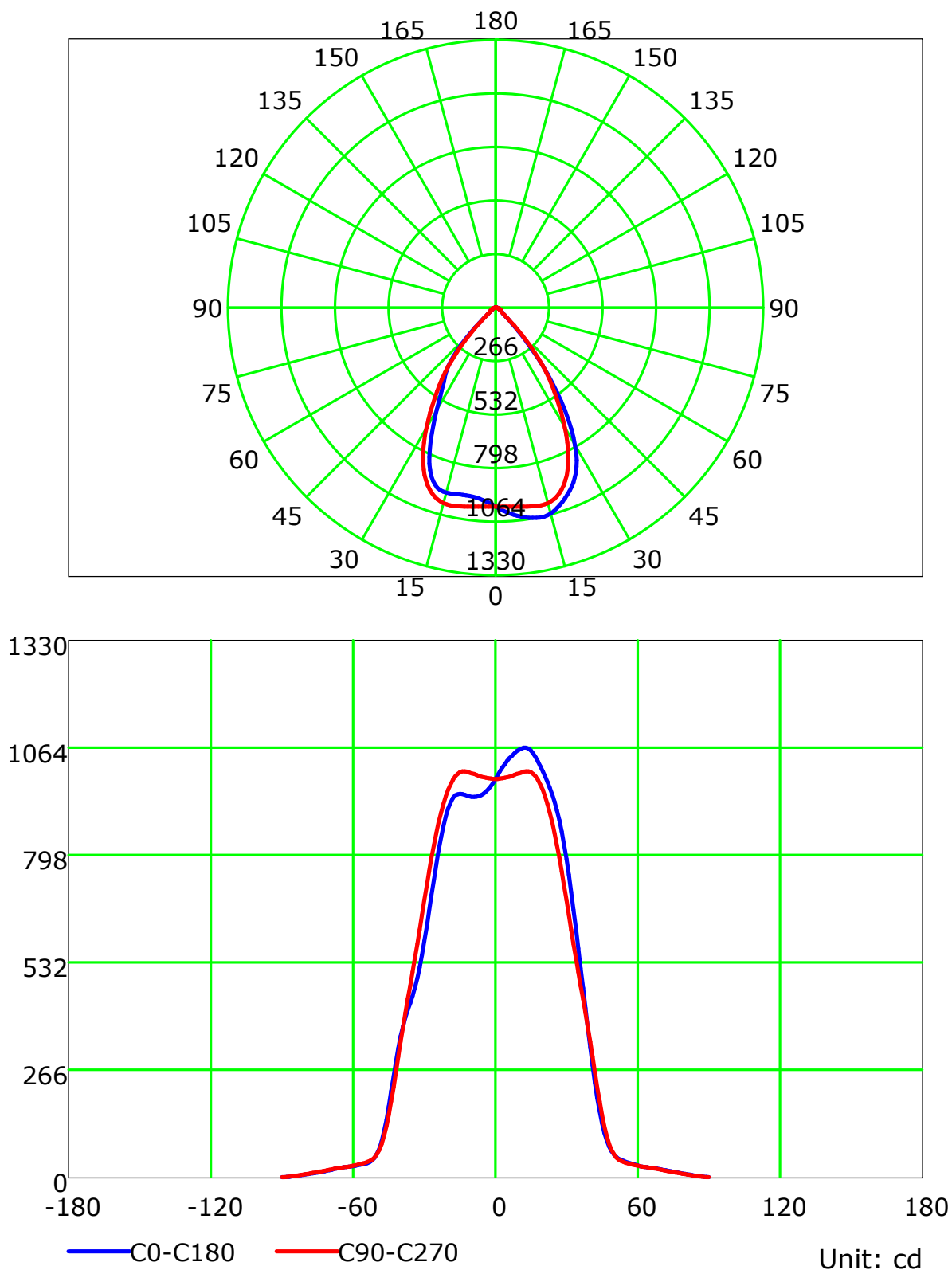
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

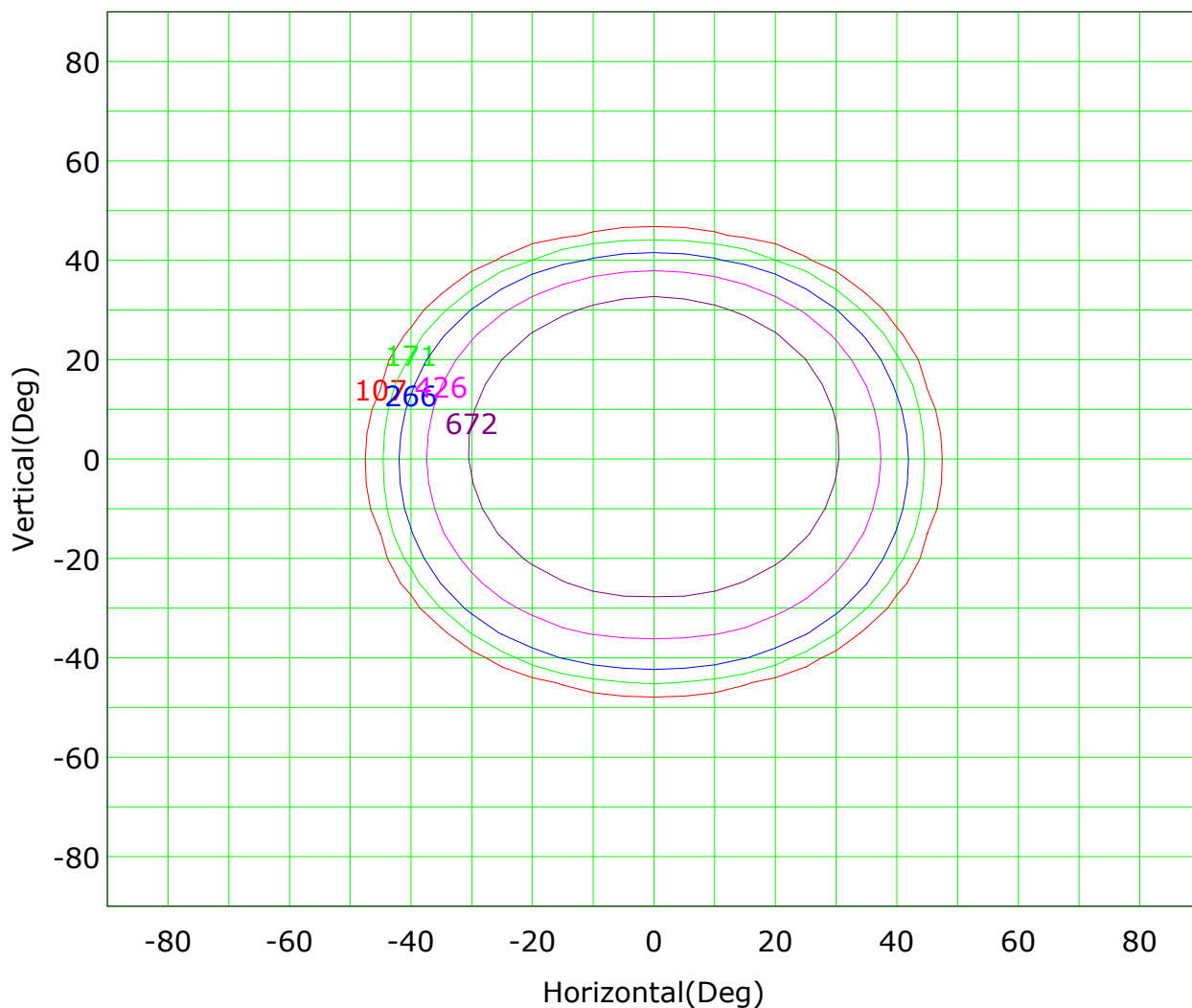
Luminous Intensity Distribution Curve



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: 3.010 m
Humidity:
Inspector:

Isocandela (rectangle)



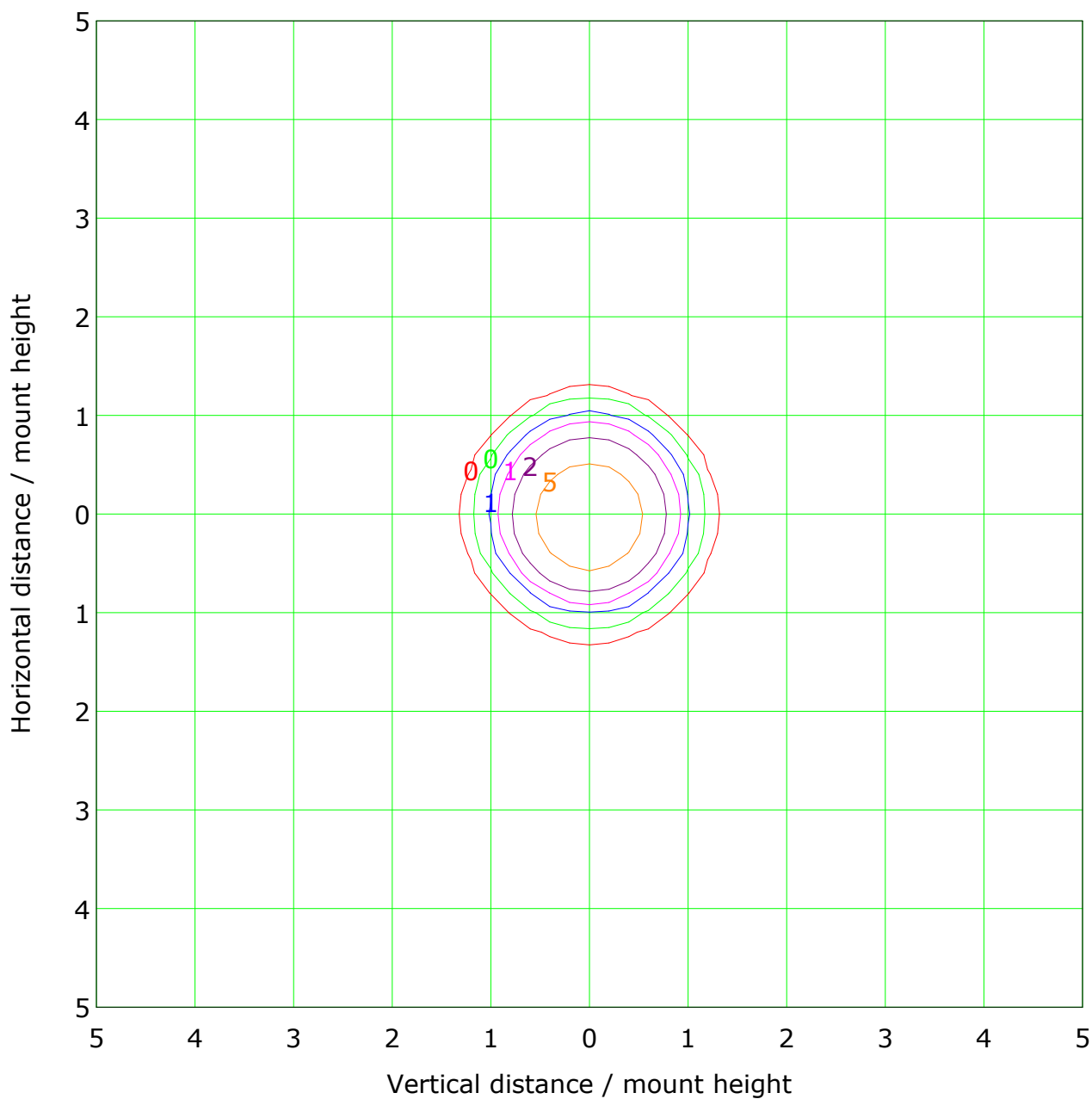
Imax (100%): 1066 cd

(10%): 107 cd	(16%): 171 cd
(25%): 266 cd	(40%): 426 cd
(63%): 672 cd	(100%): 1066 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: 3.010 m
Humidity:
Inspector:

IsoLux Plot



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

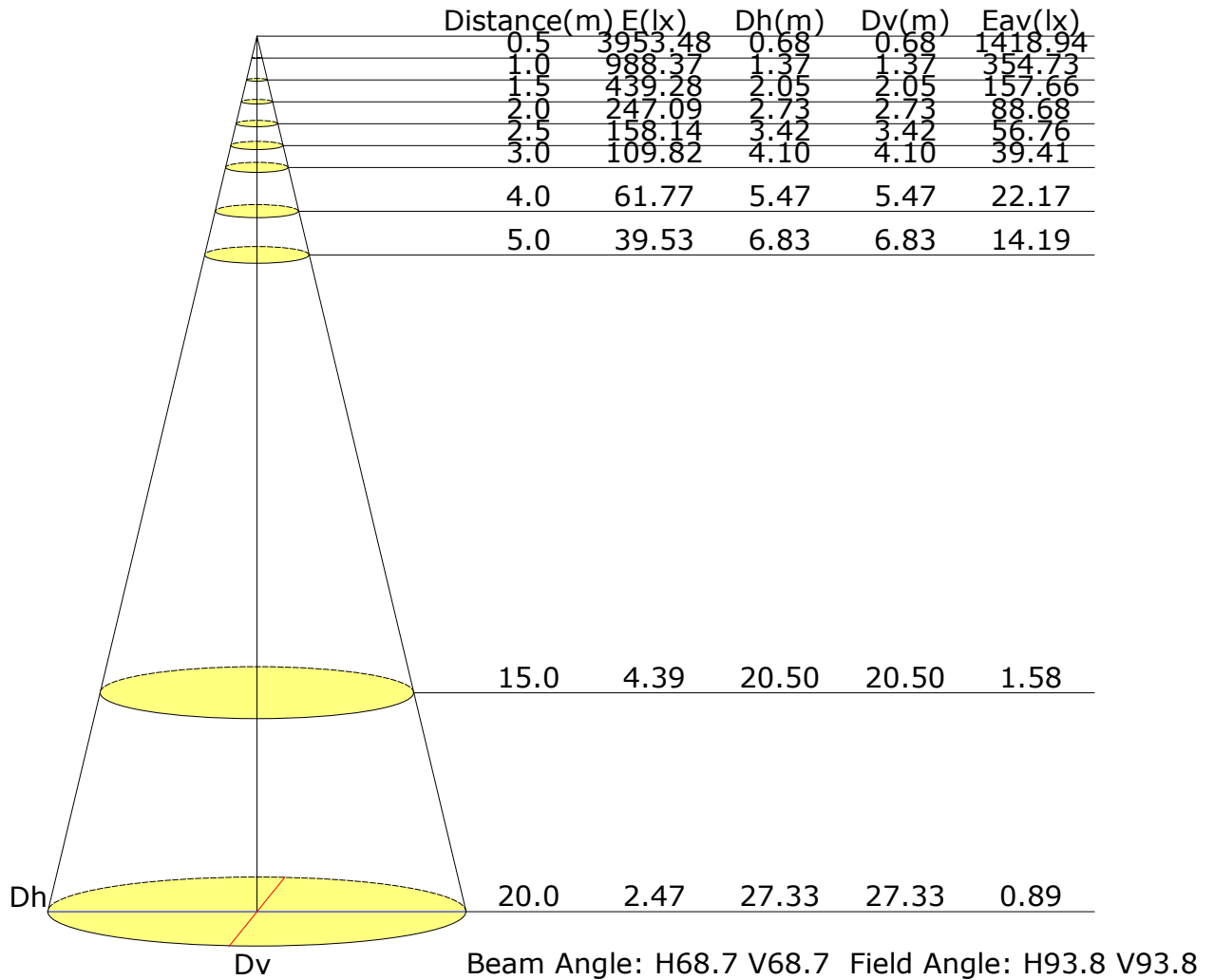
Test Device: CHL-6E

Distance: 3.010 m

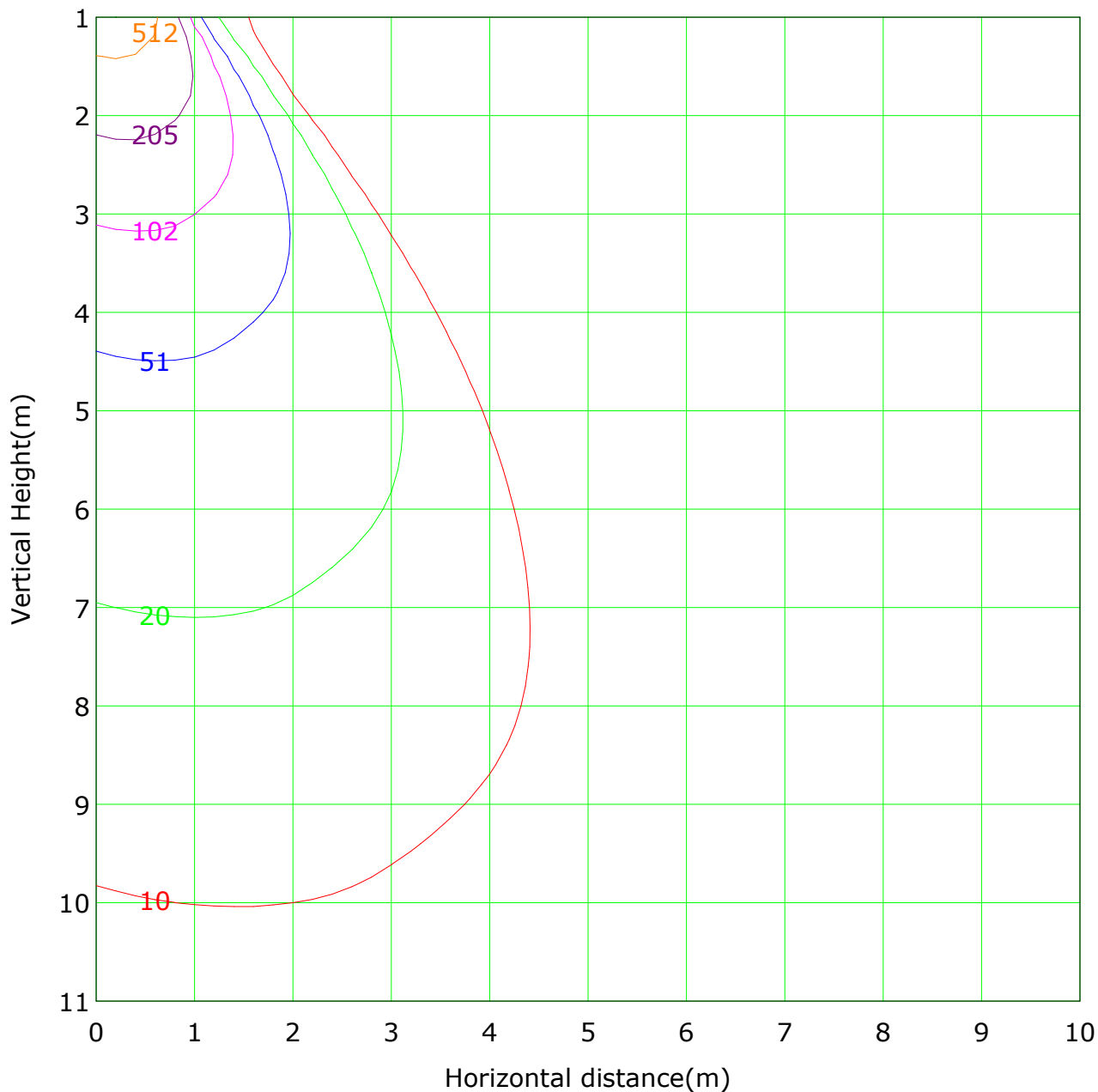
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



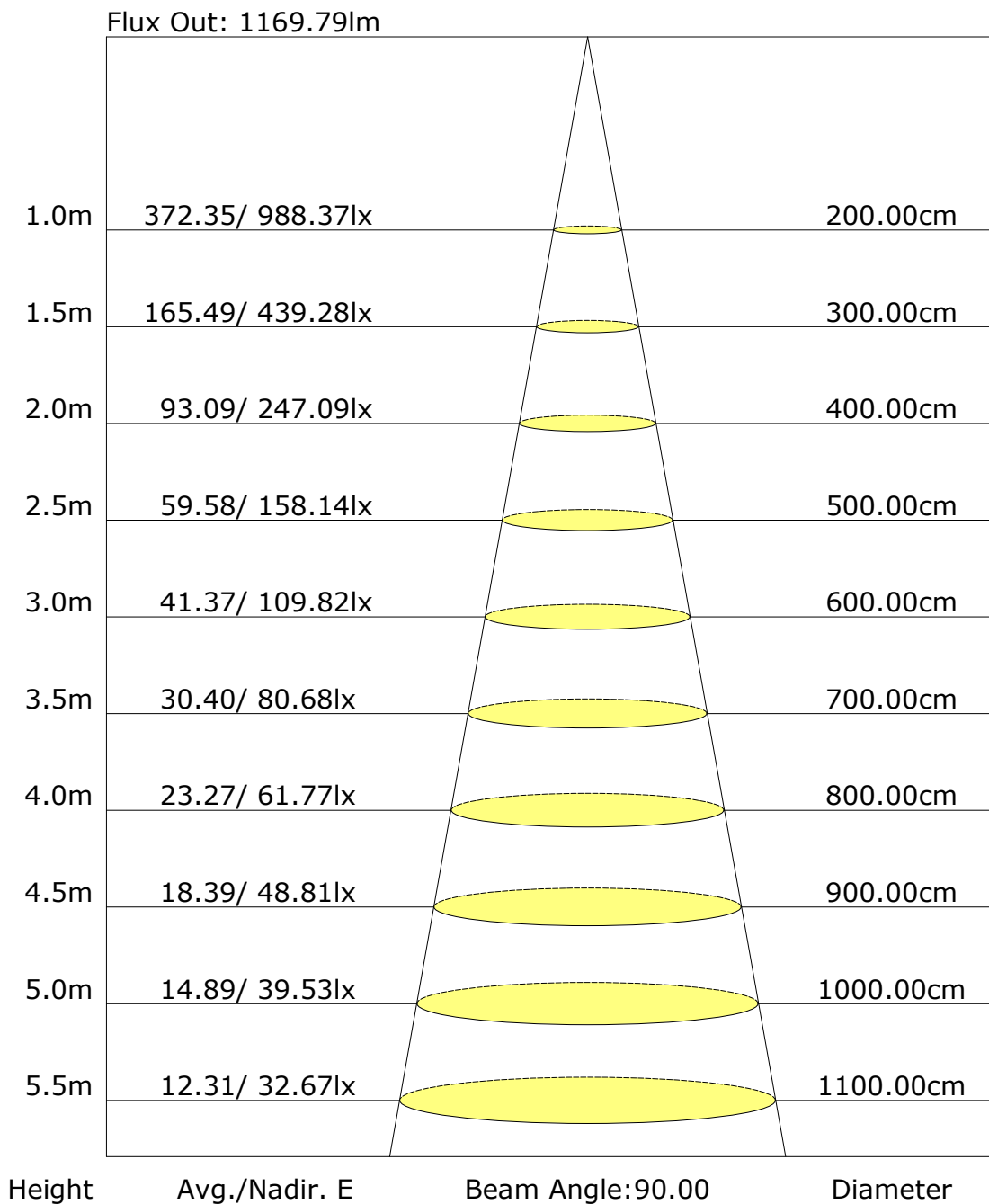
Lowest(m): 1m Highest(m): 11 Max Lux: 1023

(1%): 10 lx	(2%): 20 lx
(5%): 51 lx	(10%): 102 lx
(20%): 205 lx	(50%): 512 lx
(100%): 1023 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: 3.010 m
Humidity:
Inspector:

The average illuminance effective figure



UGR table

Reflectance:										
Ceiling cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	viewed crosswise					viewed endwise				
x = 2H y = 2H	14.1	15.5	14.4	15.8	16.1	13.8	15.2	14.2	15.5	15.9
3H	15.9	17.2	16.2	17.5	17.9	15.6	16.9	16.0	17.3	17.6
4H	16.5	17.8	16.9	18.1	18.5	16.2	17.5	16.6	17.8	18.2
6H	17.0	18.2	17.4	18.5	18.9	16.7	17.9	17.1	18.2	18.6
8H	17.1	18.3	17.6	18.7	19.1	16.8	18.0	17.2	18.4	18.8
12H	17.2	18.3	17.6	18.7	19.1	16.9	18.0	17.3	18.4	18.8
x = 4H y = 2H	14.5	15.8	14.9	16.2	16.5	14.3	15.6	14.7	15.9	16.3
3H	16.5	17.7	16.9	18.1	18.5	16.3	17.4	16.7	17.8	18.2
4H	17.3	18.4	17.7	18.8	19.2	17.0	18.1	17.5	18.5	19.0
6H	17.9	18.9	18.3	19.3	19.8	17.6	18.6	18.1	19.0	19.5
8H	18.1	19.0	18.5	19.5	19.9	17.8	18.7	18.2	19.2	19.6
12H	18.2	19.1	18.7	19.6	20.0	17.9	18.8	18.4	19.2	19.7
x = 8H y = 4H	17.5	18.5	18.0	18.9	19.4	17.3	18.2	17.7	18.7	19.1
6H	18.2	19.1	18.7	19.6	20.0	17.9	18.8	18.4	19.3	19.8
8H	18.5	19.3	19.0	19.8	20.3	18.2	19.0	18.7	19.5	20.0
12H	18.7	19.4	19.1	19.9	20.5	18.3	19.1	18.8	19.6	20.1
x = 12H y = 4H	17.5	18.4	18.0	18.9	19.3	17.3	18.2	17.8	18.6	19.1
6H	18.3	19.1	18.8	19.5	20.1	18.0	18.8	18.5	19.3	19.8
8H	18.5	19.3	19.0	19.8	20.4	18.2	19.0	18.7	19.5	20.0

Calculate in accordance with CIE 190:2010

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: 3.010 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	988.5	0.9	0.9	0.07	0.07
1.0-2.0	989.0	2.8	3.8	0.22	0.29
2.0-3.0	989.9	4.7	8.5	0.37	0.66
3.0-4.0	990.9	6.6	15.2	0.52	1.18
4.0-5.0	992.2	8.5	23.7	0.67	1.85
5.0-6.0	993.5	10.4	34.1	0.81	2.66
6.0-7.0	995.1	12.4	46.5	0.96	3.62
7.0-8.0	997.1	14.3	60.8	1.11	4.73
8.0-9.0	999.6	16.2	77.0	1.26	6.00
9.0-10.0	1001.7	18.1	95.1	1.41	7.41
10.0-11.0	1003.5	20.1	115.1	1.56	8.97
11.0-12.0	1005.4	22.0	137.1	1.71	10.68
12.0-13.0	1007.1	23.9	161.0	1.86	12.55
13.0-14.0	1007.5	25.8	186.8	2.01	14.55
14.0-15.0	1006.4	27.6	214.5	2.15	16.71
15.0-16.0	1003.2	29.4	243.9	2.29	19.00
16.0-17.0	997.9	31.1	274.9	2.42	21.42
17.0-18.0	990.5	32.7	307.6	2.54	23.96
18.0-19.0	980.5	34.1	341.7	2.66	26.62
19.0-20.0	967.9	35.4	377.1	2.76	29.38
20.0-21.0	953.0	36.6	413.7	2.85	32.23
21.0-22.0	935.6	37.6	451.3	2.93	35.16
22.0-23.0	915.6	38.4	489.8	2.99	38.16
23.0-24.0	892.9	39.0	528.8	3.04	41.20
24.0-25.0	867.3	39.4	568.3	3.07	44.27
25.0-26.0	839.1	39.6	607.9	3.09	47.36
26.0-27.0	808.7	39.6	647.4	3.08	50.44
27.0-28.0	776.2	39.3	686.7	3.06	53.50
28.0-29.0	741.7	38.8	725.6	3.02	56.53
29.0-30.0	705.9	38.1	763.7	2.97	59.50
30.0-31.0	669.6	37.3	800.9	2.90	62.40
31.0-32.0	632.8	36.3	837.2	2.82	65.22
32.0-33.0	596.6	35.2	872.3	2.74	67.96
33.0-34.0	561.1	34.0	906.3	2.65	70.61
34.0-35.0	526.2	32.7	939.0	2.55	73.16
35.0-36.0	492.1	31.3	970.3	2.44	75.60

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: 3.010 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	458.6	29.9	1000.3	2.33	77.93
37.0-38.0	425.0	28.4	1028.6	2.21	80.14
38.0-39.0	390.6	26.7	1055.3	2.08	82.22
39.0-40.0	354.9	24.8	1080.0	1.93	84.14
40.0-41.0	317.8	22.6	1102.7	1.76	85.91
41.0-42.0	280.0	20.3	1123.0	1.59	87.49
42.0-43.0	242.7	18.0	1141.0	1.40	88.89
43.0-44.0	206.3	15.6	1156.6	1.21	90.11
44.0-45.0	172.0	13.2	1169.8	1.03	91.14
45.0-46.0	141.2	11.0	1180.8	0.86	92.00
46.0-47.0	114.5	9.1	1189.9	0.71	92.71
47.0-48.0	92.5	7.5	1197.4	0.58	93.29
48.0-49.0	75.4	6.2	1203.6	0.48	93.77
49.0-50.0	62.5	5.2	1208.8	0.41	94.18
50.0-51.0	53.2	4.5	1213.3	0.35	94.53
51.0-52.0	46.7	4.0	1217.3	0.31	94.84
52.0-53.0	42.3	3.7	1221.0	0.29	95.13
53.0-54.0	39.3	3.5	1224.5	0.27	95.40
54.0-55.0	37.0	3.3	1227.8	0.26	95.65
55.0-56.0	35.2	3.2	1231.0	0.25	95.90
56.0-57.0	33.7	3.1	1234.0	0.24	96.14
57.0-58.0	32.2	3.0	1237.0	0.23	96.37
58.0-59.0	30.7	2.9	1239.9	0.22	96.60
59.0-60.0	29.2	2.8	1242.7	0.22	96.81
60.0-61.0	27.9	2.7	1245.3	0.21	97.02
61.0-62.0	26.9	2.6	1247.9	0.20	97.22
62.0-63.0	26.0	2.5	1250.4	0.20	97.42
63.0-64.0	25.3	2.5	1252.9	0.19	97.61
64.0-65.0	24.4	2.4	1255.3	0.19	97.80
65.0-66.0	23.6	2.4	1257.7	0.18	97.98
66.0-67.0	22.6	2.3	1260.0	0.18	98.16
67.0-68.0	21.5	2.2	1262.1	0.17	98.33
68.0-69.0	20.4	2.1	1264.2	0.16	98.49
69.0-70.0	19.2	2.0	1266.2	0.15	98.65
70.0-71.0	17.9	1.9	1268.0	0.14	98.79
71.0-72.0	16.8	1.7	1269.8	0.14	98.93

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: 3.010 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	988.4	988.4								
G1.0	998.0	979.2								
G2.0	1008.2	970.8								
G3.0	1016.9	963.6								
G4.0	1025.5	957.7								
G5.0	1033.3	952.3								
G6.0	1040.2	948.3								
G7.0	1046.2	945.7								
G8.0	1051.9	944.7								
G9.0	1057.6	944.1								
G10.0	1061.0	944.2								
G11.0	1063.6	945.1								
G12.0	1066.0	947.1								
G13.0	1066.0	949.3								
G14.0	1063.9	951.0								
G15.0	1059.1	951.6								
G16.0	1051.6	950.5								
G17.0	1042.0	947.7								
G18.0	1031.5	940.8								
G19.0	1020.0	929.5								
G20.0	1007.6	914.5								
G21.0	994.8	895.0								
G22.0	981.3	871.1								
G23.0	966.8	843.3								
G24.0	950.1	811.5								
G25.0	931.9	775.6								
G26.0	910.8	738.2								
G27.0	886.0	699.7								
G28.0	858.2	660.9								
G29.0	825.8	622.0								
G30.0	789.9	586.0								
G31.0	750.8	551.6								
G32.0	708.2	520.7								
G33.0	663.6	493.8								
G34.0	616.9	470.1								
G35.0	568.0	450.0								
G36.0	518.6	432.0								

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: 3.010 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	469.3	414.7								
G38.0	419.8	396.4								
G39.0	371.0	375.0								
G40.0	323.4	350.0								
G41.0	277.5	320.3								
G42.0	235.3	287.2								
G43.0	197.3	250.9								
G44.0	163.5	213.4								
G45.0	134.5	176.6								
G46.0	110.7	142.9								
G47.0	91.0	113.4								
G48.0	76.1	89.6								
G49.0	64.9	71.0								
G50.0	56.5	57.7								
G51.0	50.5	48.2								
G52.0	46.1	42.0								
G53.0	43.1	38.1								
G54.0	40.5	35.4								
G55.0	38.6	33.5								
G56.0	36.6	32.3								
G57.0	34.7	31.1								
G58.0	32.9	30.0								
G59.0	31.1	28.8								
G60.0	29.3	27.8								
G61.0	27.6	27.0								
G62.0	26.6	26.3								
G63.0	25.5	25.8								
G64.0	24.8	24.9								
G65.0	24.0	24.0								
G66.0	23.4	22.8								
G67.0	22.4	21.6								
G68.0	21.6	20.3								
G69.0	20.7	18.9								
G70.0	19.4	17.7								
G71.0	18.2	16.5								
G72.0	17.3	15.2								
G73.0	15.9	14.3								

C Plane (°):0.0-180.0: 180.0
Test Lab:
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

