

Report No.:95.04519 Surface Mounted Light Test Time: 2024-09-29 20:17

## Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.092 A

Power Factor: 0.940

Voltage: 230.9 V

Power: 19.90 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 1824.2 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H49.7

Vertical Diffuse Angle(50%): V49.7

Luminaire Efficacy Rating (LER): 92

Max. Intensity: 2566.63 cd

Total Rated Lamp Lumens: 1824.2 lm

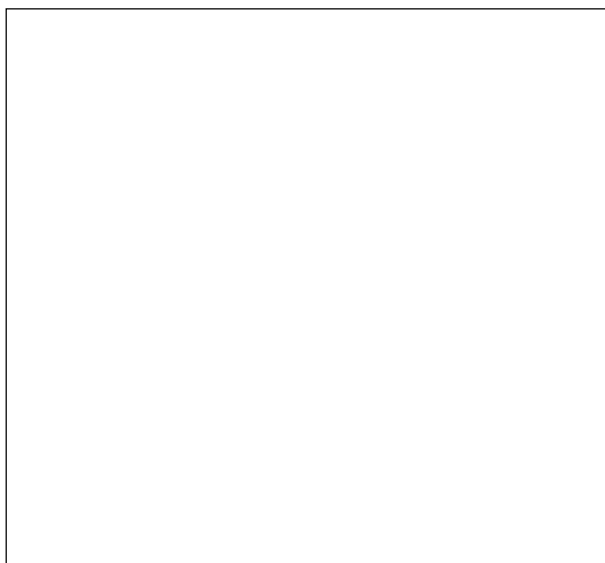
Efficiency: 100%

Upward Ratio: 0%

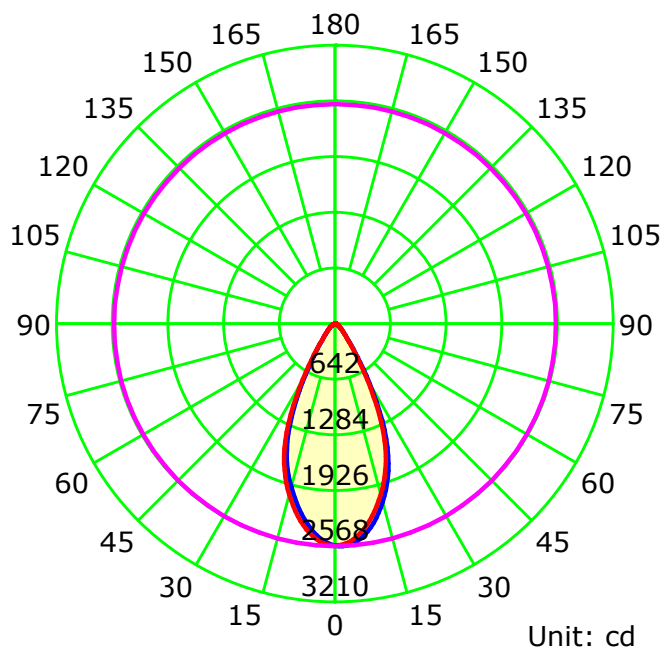
Central Intensity: 2559.79 cd

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

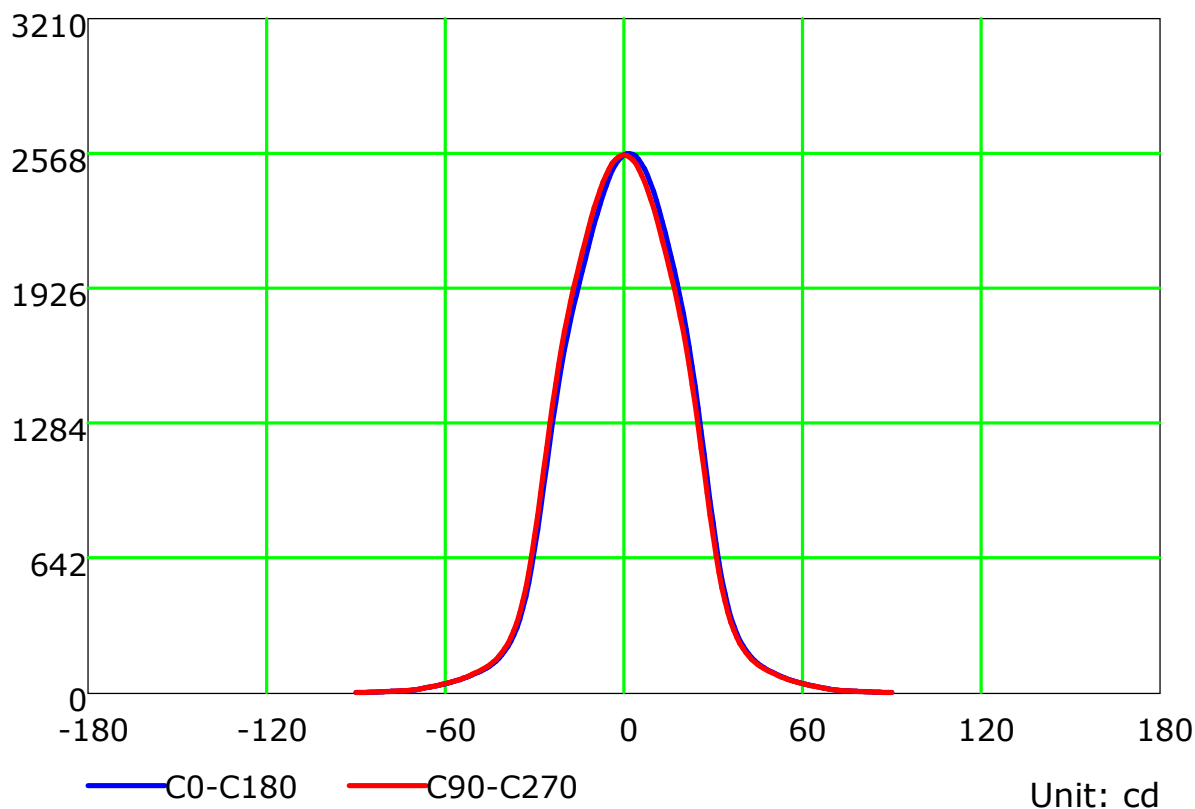
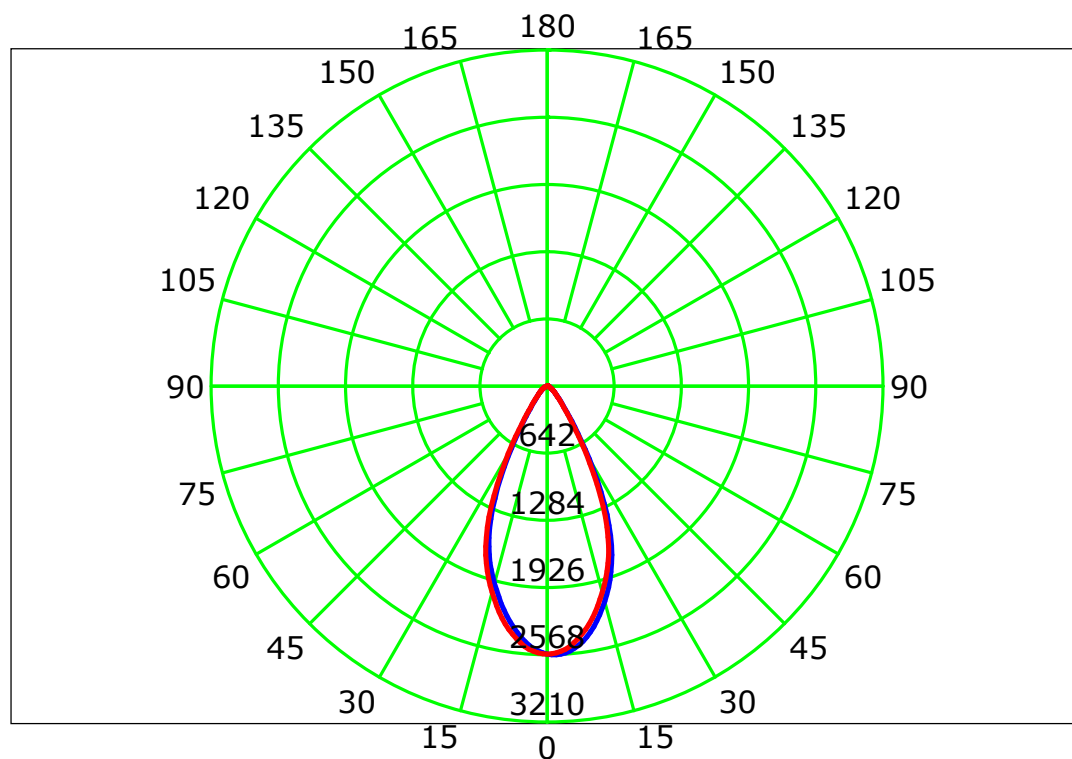
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

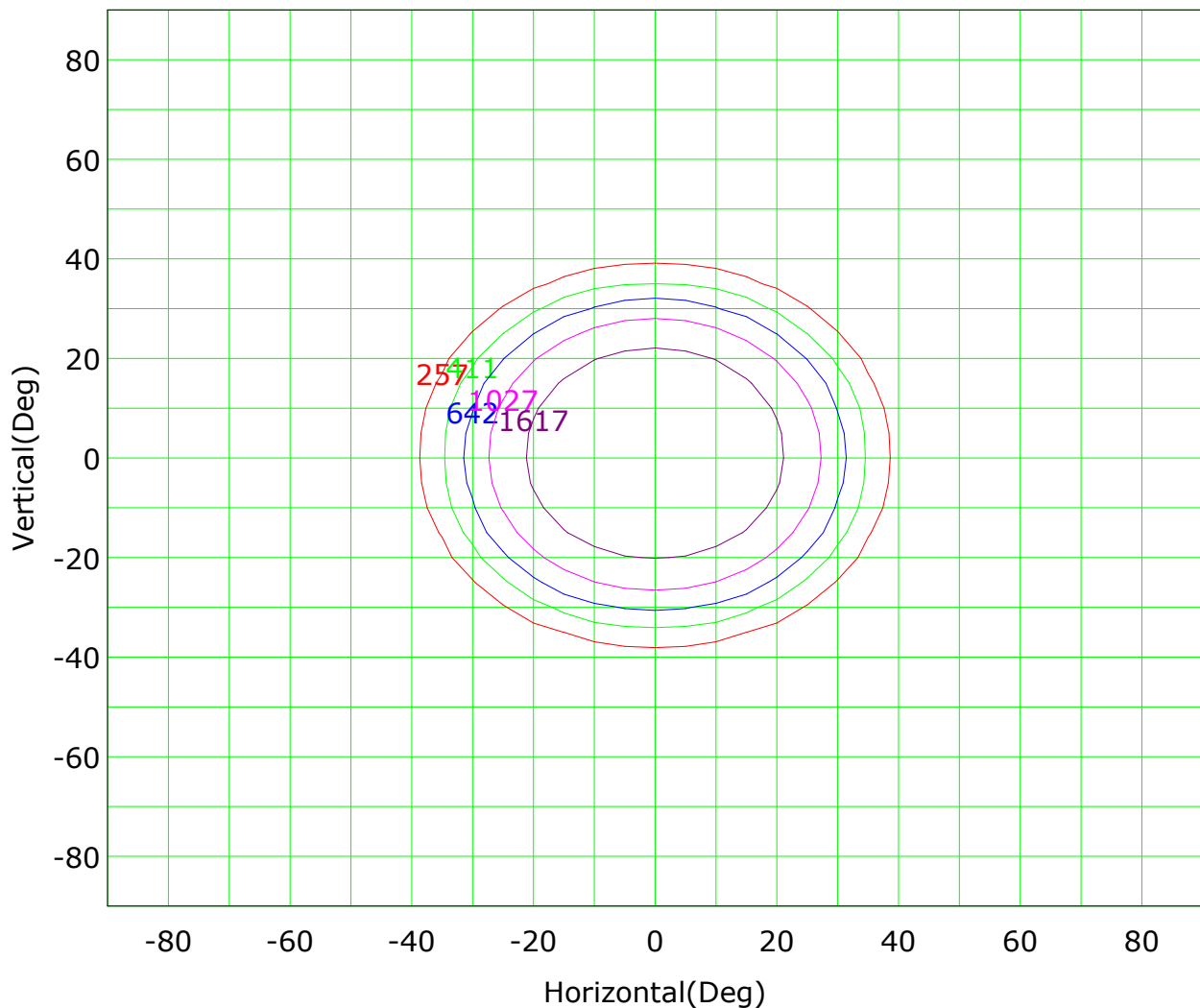
## Luminous Intensity Distribution Curve



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%): 2567 cd

( 10%): 257 cd	( 16%): 411 cd
( 25%): 642 cd	( 40%): 1027 cd
( 63%): 1617 cd	(100%): 2567 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

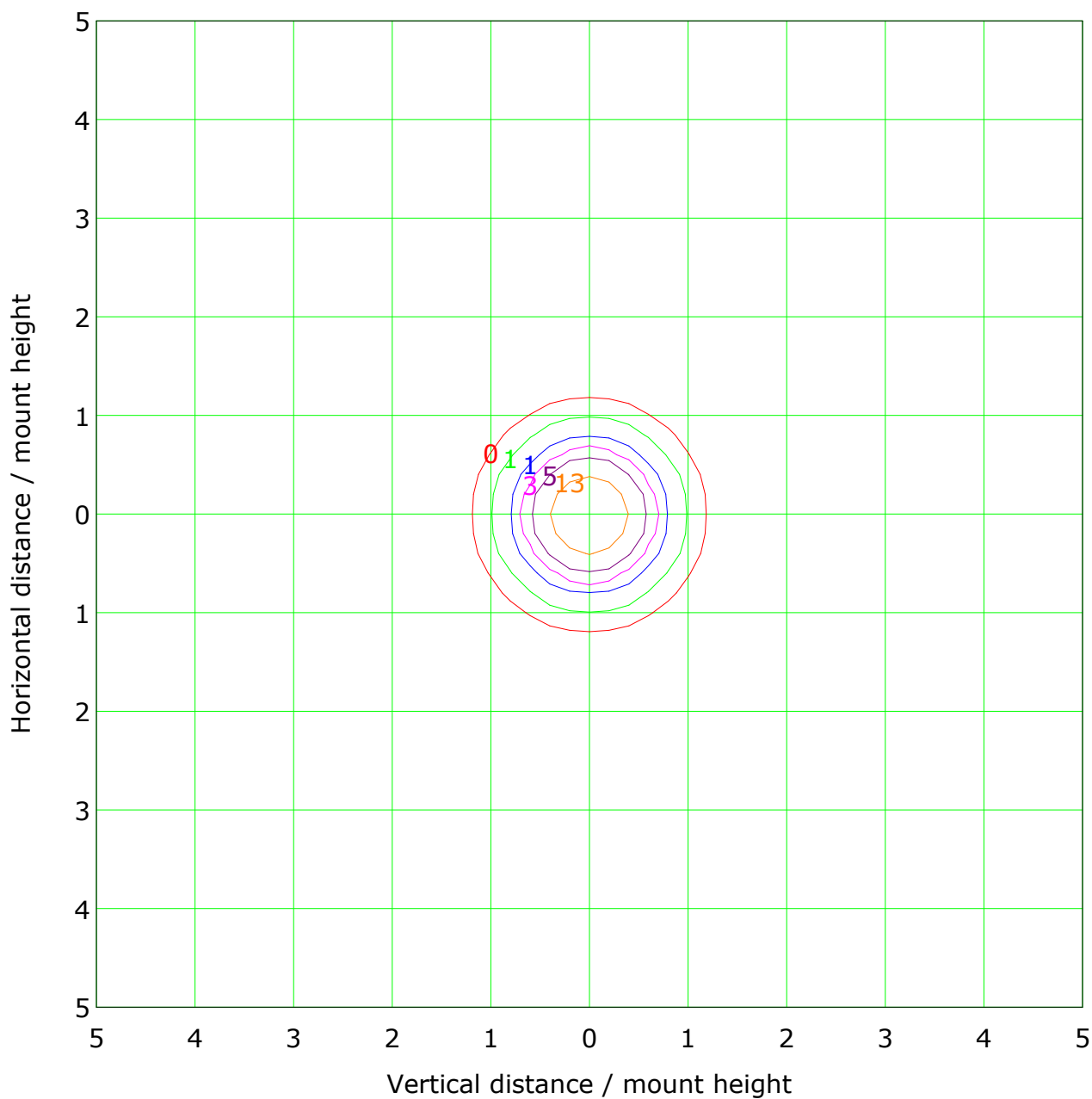
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot

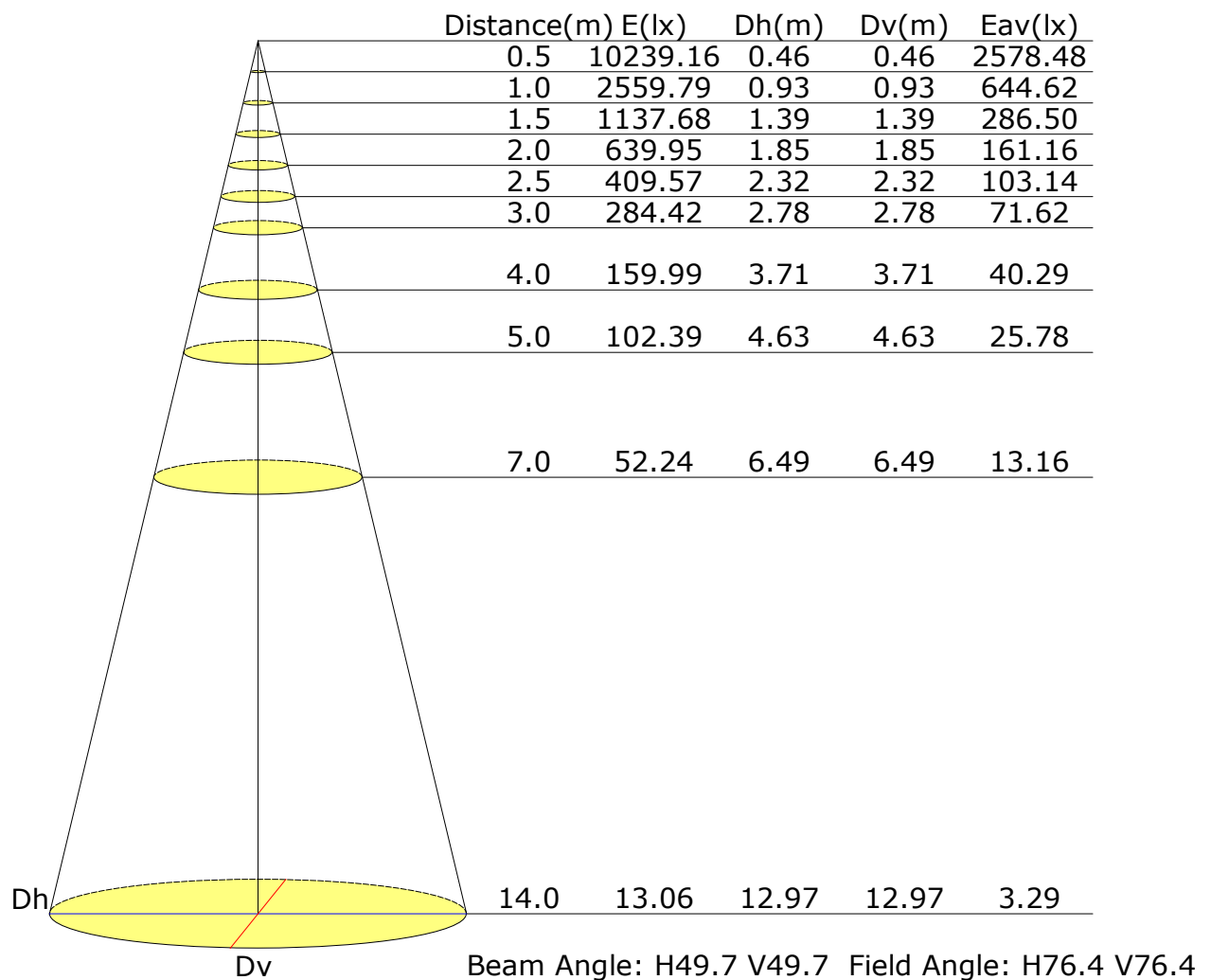


Mounting Height: 10m		Max Lux(100%): 26 lx	
( 1%):	0 lx	( 2%):	1 lx
( 5%):	1 lx	( 10%):	3 lx
( 20%):	5 lx	( 50%):	13 lx
(100%):	26 lx		

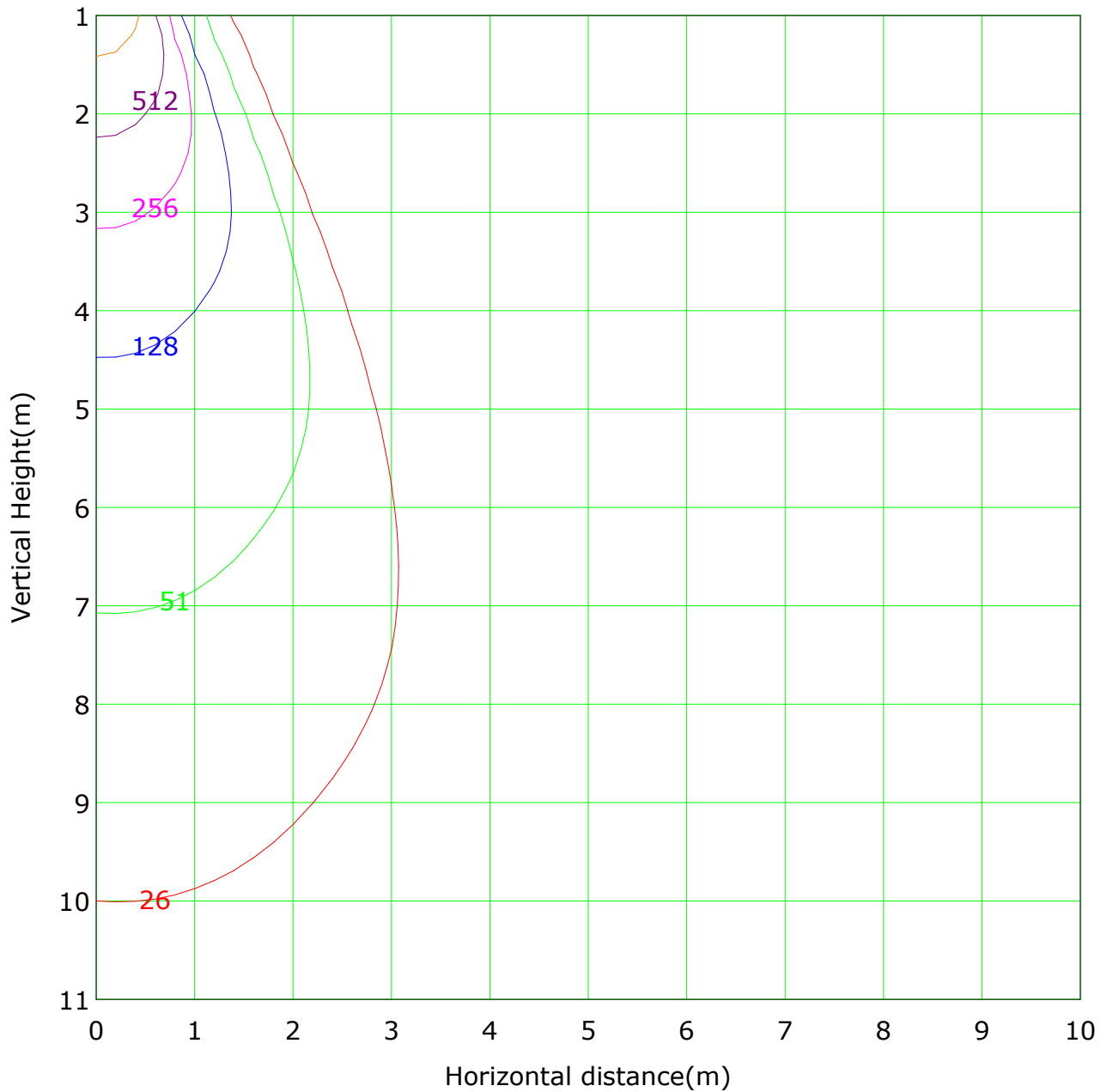
C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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: 2560

( 1%): 26 lx	( 2%): 51 lx
( 5%): 128 lx	( 10%): 256 lx
( 20%): 512 lx	( 50%): 1280 lx
(100%): 2560 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

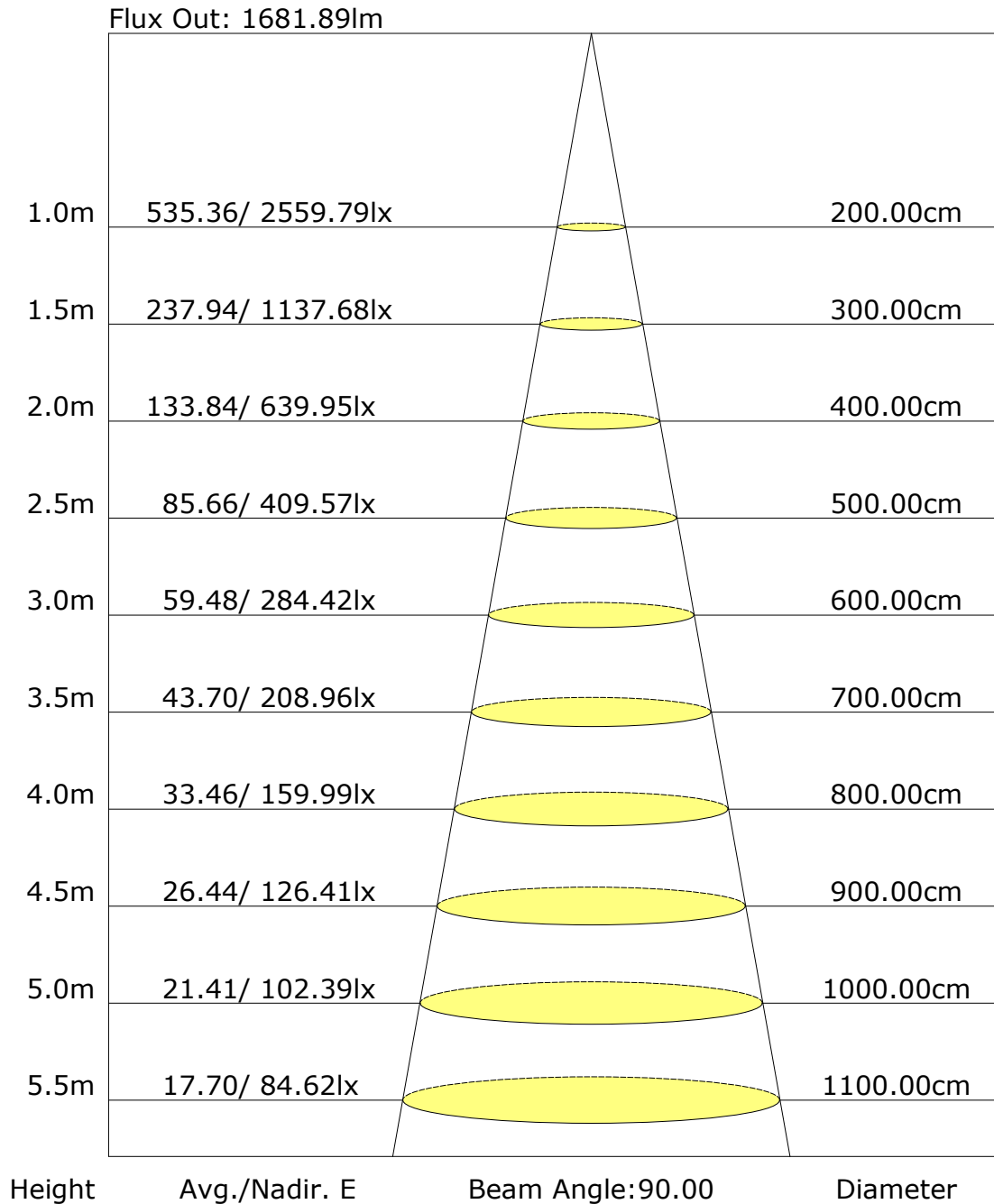
Test Device: CHL-6E

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	2558.3	2.4	2.4	0.13	0.13
1.0-2.0	2553.1	7.3	9.8	0.40	0.54
2.0-3.0	2543.3	12.2	21.9	0.67	1.20
3.0-4.0	2528.5	16.9	38.9	0.93	2.13
4.0-5.0	2507.3	21.6	60.4	1.18	3.31
5.0-6.0	2480.1	26.1	86.5	1.43	4.74
6.0-7.0	2448.1	30.4	116.9	1.67	6.41
7.0-8.0	2412.5	34.5	151.4	1.89	8.30
8.0-9.0	2373.1	38.5	189.9	2.11	10.41
9.0-10.0	2330.2	42.2	232.1	2.31	12.72
10.0-11.0	2283.8	45.6	277.7	2.50	15.22
11.0-12.0	2233.7	48.8	326.5	2.68	17.90
12.0-13.0	2180.5	51.8	378.3	2.84	20.74
13.0-14.0	2125.1	54.4	432.7	2.98	23.72
14.0-15.0	2068.5	56.8	489.5	3.11	26.83
15.0-16.0	2011.2	58.9	548.4	3.23	30.06
16.0-17.0	1952.2	60.8	609.2	3.33	33.40
17.0-18.0	1890.2	62.3	671.6	3.42	36.81
18.0-19.0	1824.4	63.5	735.0	3.48	40.29
19.0-20.0	1754.4	64.2	799.3	3.52	43.81
20.0-21.0	1679.8	64.5	863.8	3.54	47.35
21.0-22.0	1599.5	64.3	928.1	3.52	50.87
22.0-23.0	1512.5	63.5	991.5	3.48	54.35
23.0-24.0	1419.5	62.1	1053.6	3.40	57.76
24.0-25.0	1320.6	60.1	1113.7	3.29	61.05
25.0-26.0	1216.8	57.4	1171.1	3.15	64.20
26.0-27.0	1110.3	54.3	1225.4	2.98	67.17
27.0-28.0	1003.2	50.8	1276.2	2.78	69.96
28.0-29.0	897.3	47.0	1323.2	2.57	72.53
29.0-30.0	795.6	43.0	1366.1	2.36	74.89
30.0-31.0	700.5	39.0	1405.1	2.14	77.03
31.0-32.0	613.4	35.1	1440.3	1.93	78.95
32.0-33.0	535.4	31.5	1471.8	1.73	80.68
33.0-34.0	467.1	28.3	1500.1	1.55	82.23
34.0-35.0	408.0	25.3	1525.4	1.39	83.62
35.0-36.0	357.4	22.8	1548.2	1.25	84.87

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	314.6	20.5	1568.7	1.12	85.99
37.0-38.0	278.6	18.6	1587.3	1.02	87.01
38.0-39.0	248.3	17.0	1604.3	0.93	87.94
39.0-40.0	222.8	15.5	1619.8	0.85	88.79
40.0-41.0	201.3	14.3	1634.2	0.79	89.58
41.0-42.0	182.6	13.3	1647.4	0.73	90.31
42.0-43.0	166.2	12.3	1659.7	0.67	90.98
43.0-44.0	151.7	11.5	1671.2	0.63	91.61
44.0-45.0	139.3	10.7	1681.9	0.59	92.20
45.0-46.0	128.6	10.1	1692.0	0.55	92.75
46.0-47.0	119.2	9.5	1701.4	0.52	93.27
47.0-48.0	110.9	9.0	1710.4	0.49	93.76
48.0-49.0	103.4	8.5	1718.9	0.47	94.23
49.0-50.0	96.6	8.1	1727.0	0.44	94.67
50.0-51.0	90.1	7.6	1734.6	0.42	95.08
51.0-52.0	83.8	7.2	1741.8	0.39	95.48
52.0-53.0	77.6	6.8	1748.5	0.37	95.85
53.0-54.0	71.8	6.3	1754.8	0.35	96.20
54.0-55.0	66.5	5.9	1760.8	0.33	96.52
55.0-56.0	61.5	5.6	1766.3	0.30	96.83
56.0-57.0	56.9	5.2	1771.5	0.29	97.11
57.0-58.0	52.6	4.9	1776.4	0.27	97.38
58.0-59.0	48.7	4.6	1781.0	0.25	97.63
59.0-60.0	44.9	4.2	1785.2	0.23	97.86
60.0-61.0	41.4	4.0	1789.2	0.22	98.08
61.0-62.0	38.0	3.7	1792.8	0.20	98.28
62.0-63.0	34.8	3.4	1796.2	0.19	98.46
63.0-64.0	31.8	3.1	1799.3	0.17	98.63
64.0-65.0	29.0	2.9	1802.2	0.16	98.79
65.0-66.0	26.3	2.6	1804.8	0.14	98.94
66.0-67.0	23.7	2.4	1807.2	0.13	99.07
67.0-68.0	20.9	2.1	1809.3	0.12	99.18
68.0-69.0	18.1	1.8	1811.2	0.10	99.28
69.0-70.0	15.5	1.6	1812.8	0.09	99.37
70.0-71.0	13.3	1.4	1814.1	0.08	99.45
71.0-72.0	11.6	1.2	1815.3	0.07	99.51

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: 3.328 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	2559.8	2559.8								
G1.0	2565.9	2547.9								
G2.0	2566.6	2532.0								
G3.0	2562.6	2512.0								
G4.0	2554.6	2484.7								
G5.0	2538.4	2451.5								
G6.0	2517.3	2412.9								
G7.0	2492.0	2370.2								
G8.0	2461.7	2325.9								
G9.0	2425.8	2279.1								
G10.0	2385.7	2230.2								
G11.0	2341.4	2177.8								
G12.0	2293.1	2122.4								
G13.0	2241.1	2065.4								
G14.0	2186.0	2008.0								
G15.0	2129.0	1951.0								
G16.0	2071.4	1893.4								
G17.0	2009.9	1834.0								
G18.0	1945.5	1771.2								
G19.0	1877.1	1703.7								
G20.0	1805.1	1631.7								
G21.0	1728.1	1554.3								
G22.0	1644.8	1470.5								
G23.0	1553.9	1380.8								
G24.0	1457.7	1285.4								
G25.0	1354.9	1184.4								
G26.0	1246.7	1081.2								
G27.0	1135.3	977.9								
G28.0	1024.0	875.5								
G29.0	912.7	777.2								
G30.0	807.8	684.7								
G31.0	709.6	599.8								
G32.0	620.1	524.2								
G33.0	539.7	457.9								
G34.0	471.1	399.9								
G35.0	410.4	350.5								
G36.0	359.5	309.0								

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	316.3	273.6								
G38.0	280.1	244.4								
G39.0	249.2	219.6								
G40.0	223.8	198.8								
G41.0	202.2	180.4								
G42.0	183.5	164.4								
G43.0	166.9	150.1								
G44.0	152.0	138.1								
G45.0	139.3	127.8								
G46.0	128.7	118.6								
G47.0	119.3	110.4								
G48.0	110.9	103.2								
G49.0	103.3	96.3								
G50.0	96.3	90.4								
G51.0	89.6	84.2								
G52.0	82.9	78.3								
G53.0	76.6	72.5								
G54.0	70.8	67.3								
G55.0	65.3	62.5								
G56.0	60.2	58.0								
G57.0	55.6	53.6								
G58.0	51.3	49.9								
G59.0	47.5	46.1								
G60.0	43.7	42.5								
G61.0	40.3	39.2								
G62.0	36.8	35.8								
G63.0	33.8	32.8								
G64.0	30.9	29.8								
G65.0	28.1	27.2								
G66.0	25.3	24.6								
G67.0	22.8	21.9								
G68.0	20.1	18.9								
G69.0	17.5	16.0								
G70.0	14.9	13.5								
G71.0	12.9	12.0								
G72.0	11.3	10.3								
G73.0	9.9	9.1								

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: