

Report No.:91.08013 Cla Surface Mounted  
Light

Test Time: 2024-10-07 20:43

## Luminaire Property

Luminaire Category:

Voltage: 234.1 V

Power: 9.50 W

Current: 0.070 A

Power Factor: 0.577

## Photometric Results

CIE Class: Direct

Measurement Flux: 1029.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H32.4

Vertical Diffuse Angle(50%): V32.4

Luminaire Efficacy Rating (LER): 108

Max. Intensity: 2750.23 cd

Total Rated Lamp Lumens: 1029.1 lm

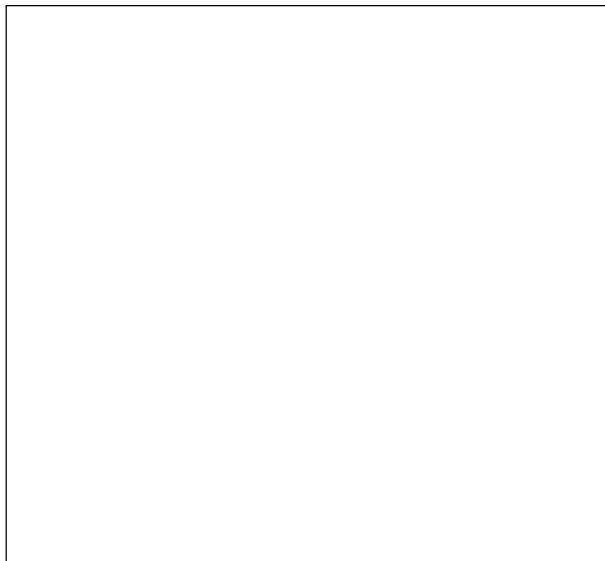
Efficiency: 100%

Upward Ratio: 0%

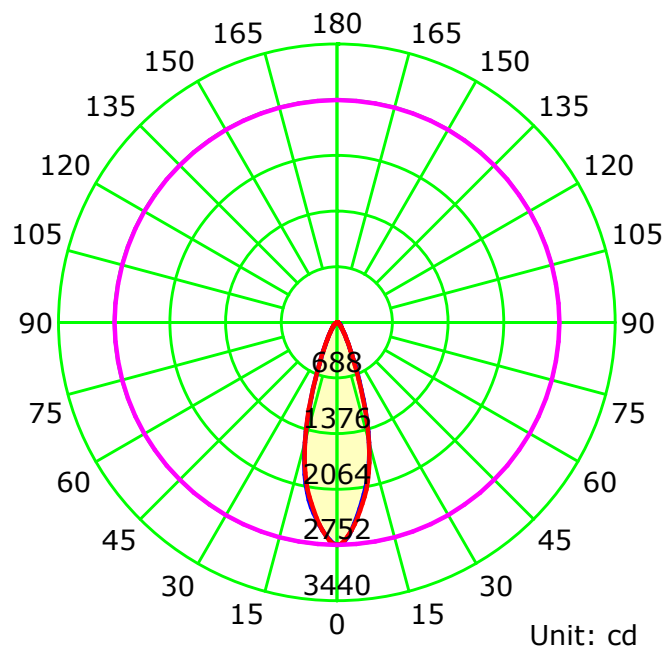
Central Intensity: 2750.23 cd

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

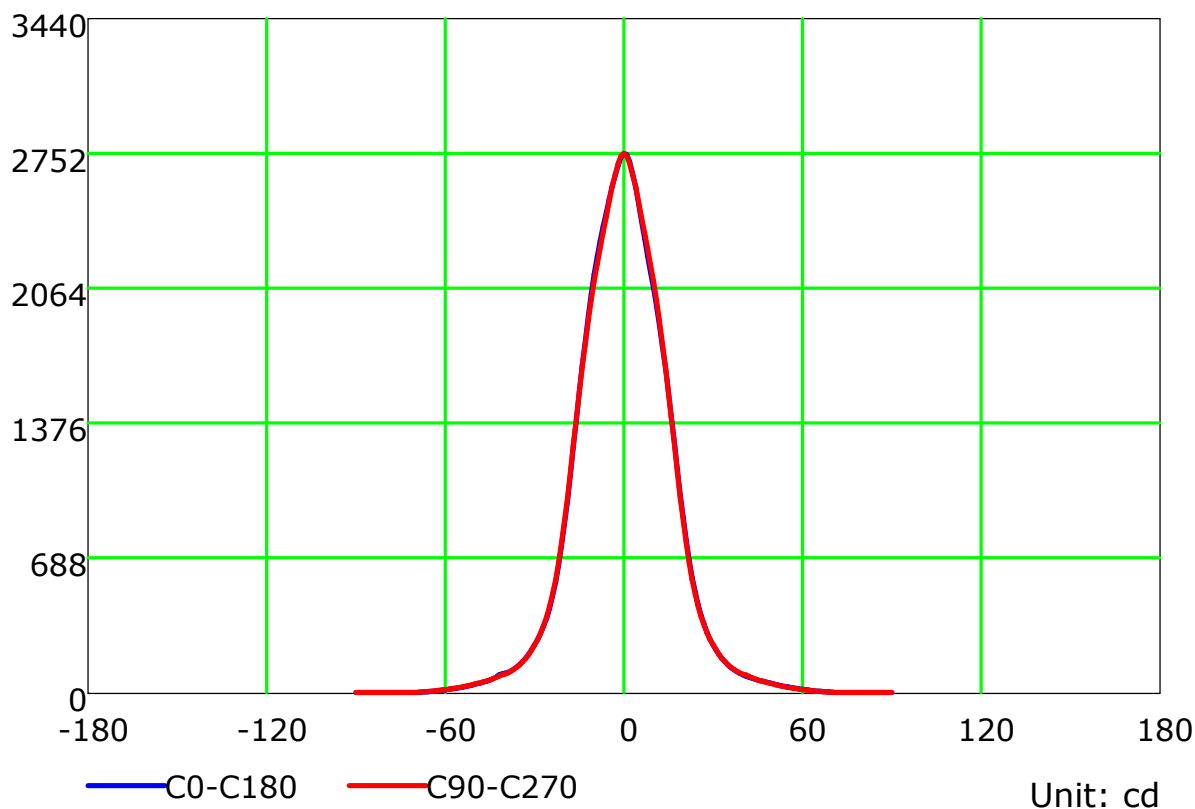
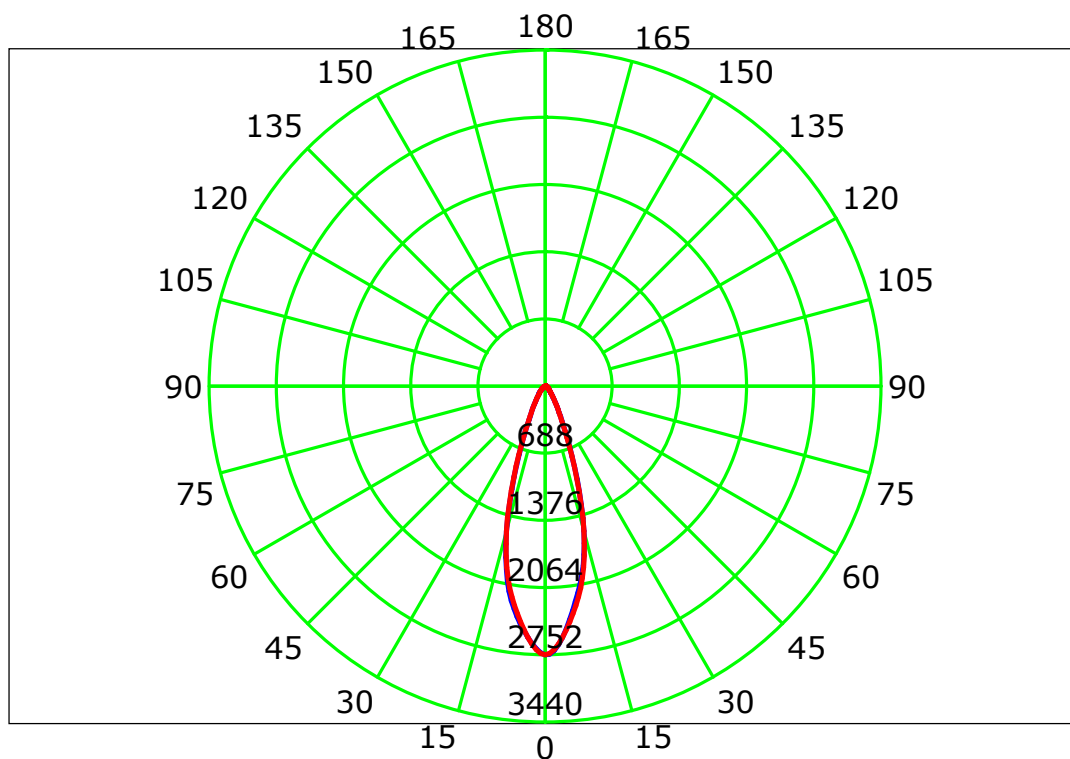
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

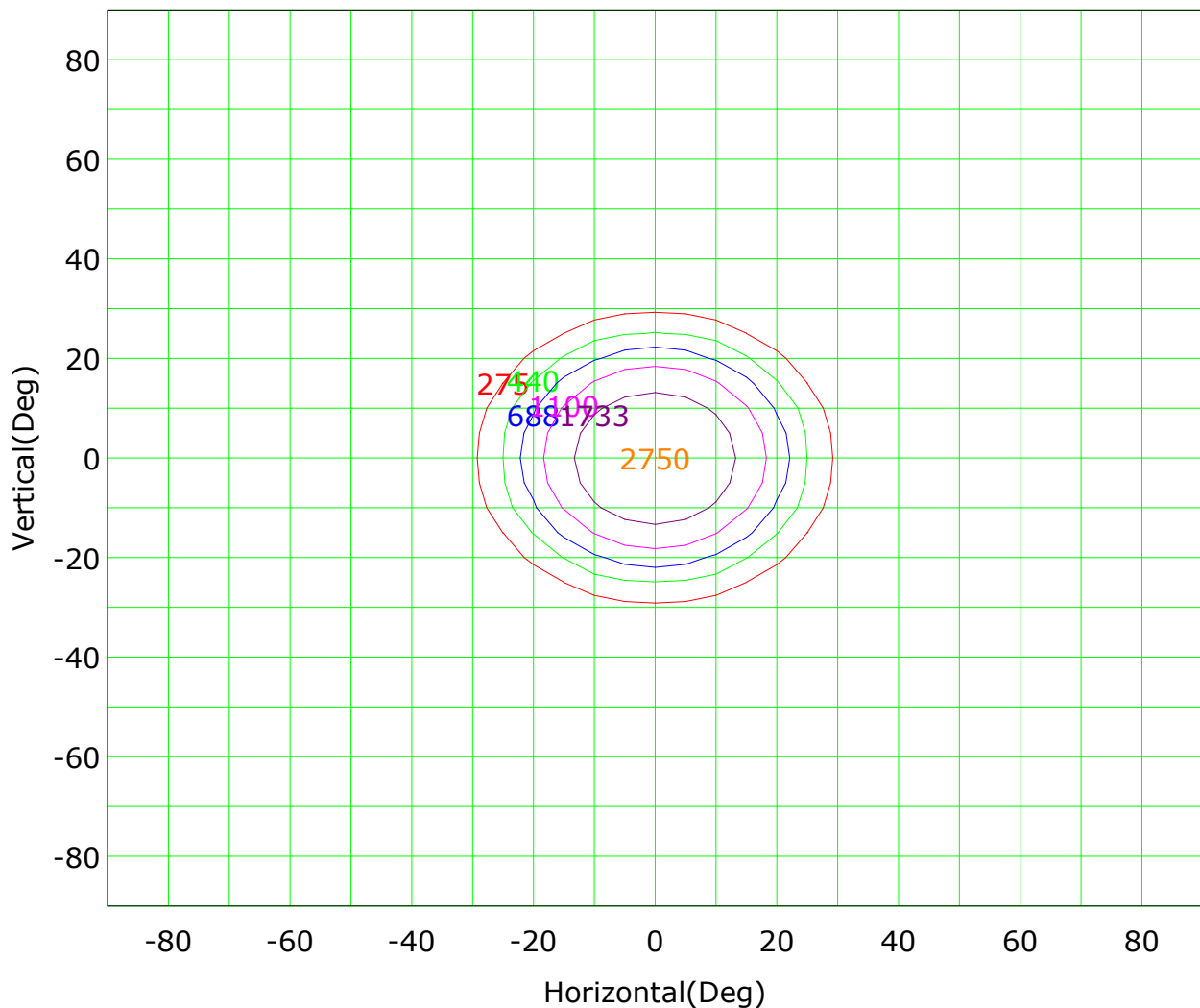
## Luminous Intensity Distribution Curve



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)



Imax (100%): 2750 cd

( 10%): 275 cd	( 16%): 440 cd
( 25%): 688 cd	( 40%): 1100 cd
( 63%): 1733 cd	(100%): 2750 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

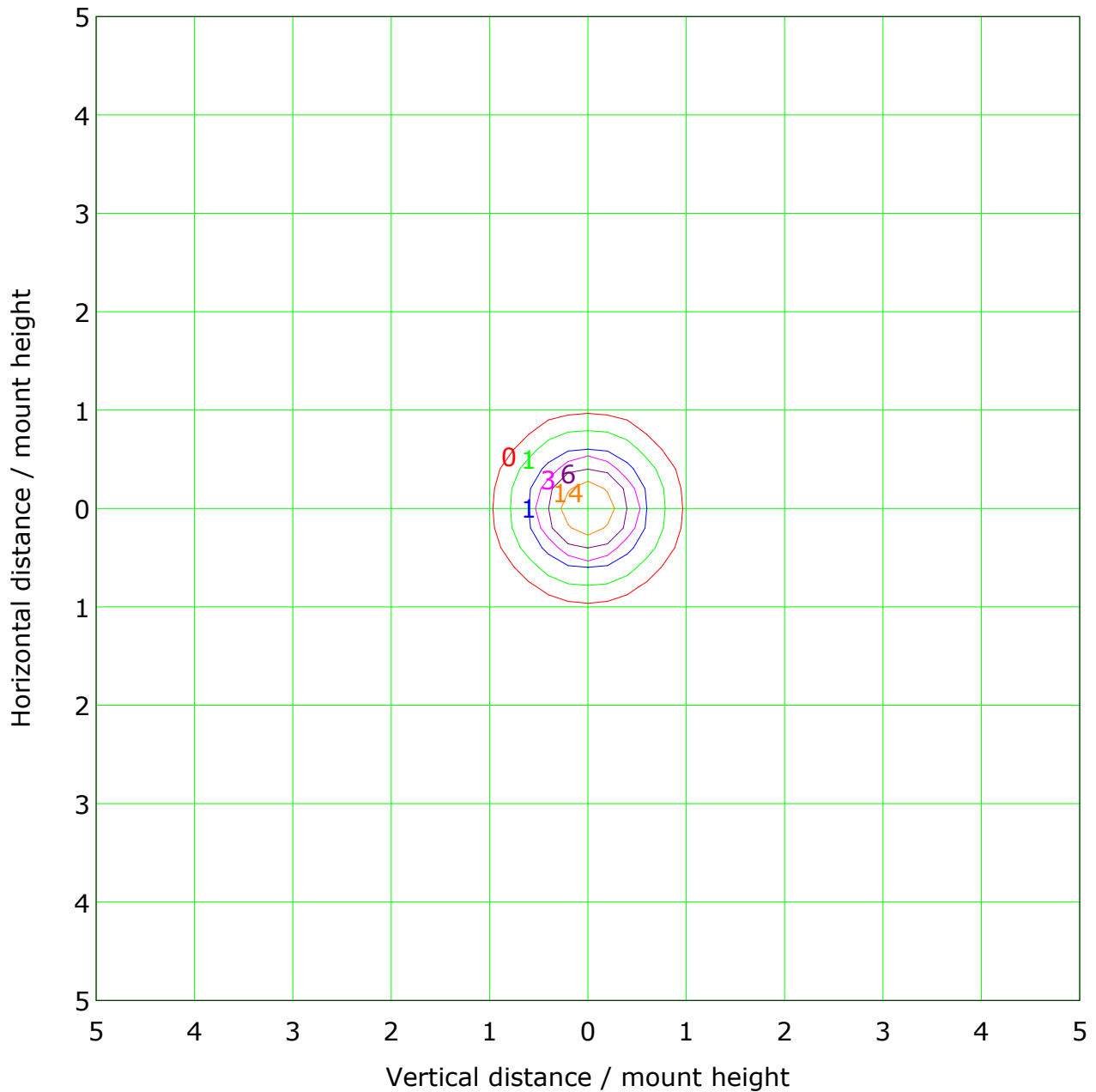
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10m		Max Lux(100%): 28 lx	
( 1%):	0 lx	( 2%):	1 lx
( 5%):	1 lx	( 10%):	3 lx
( 20%):	6 lx	( 50%):	14 lx
(100%):	28 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

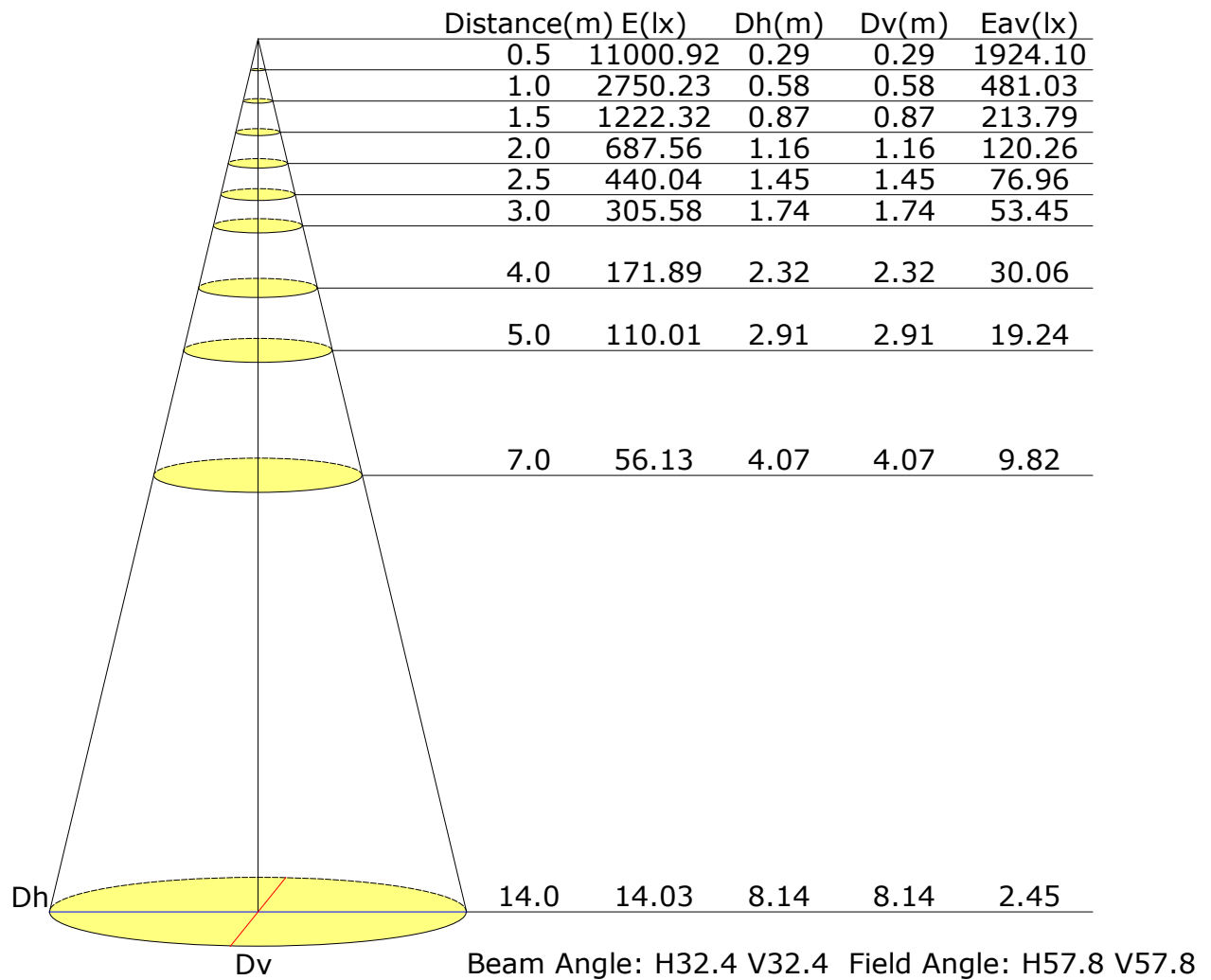
Test Device: CHL-6E

Distance: 3.328 m

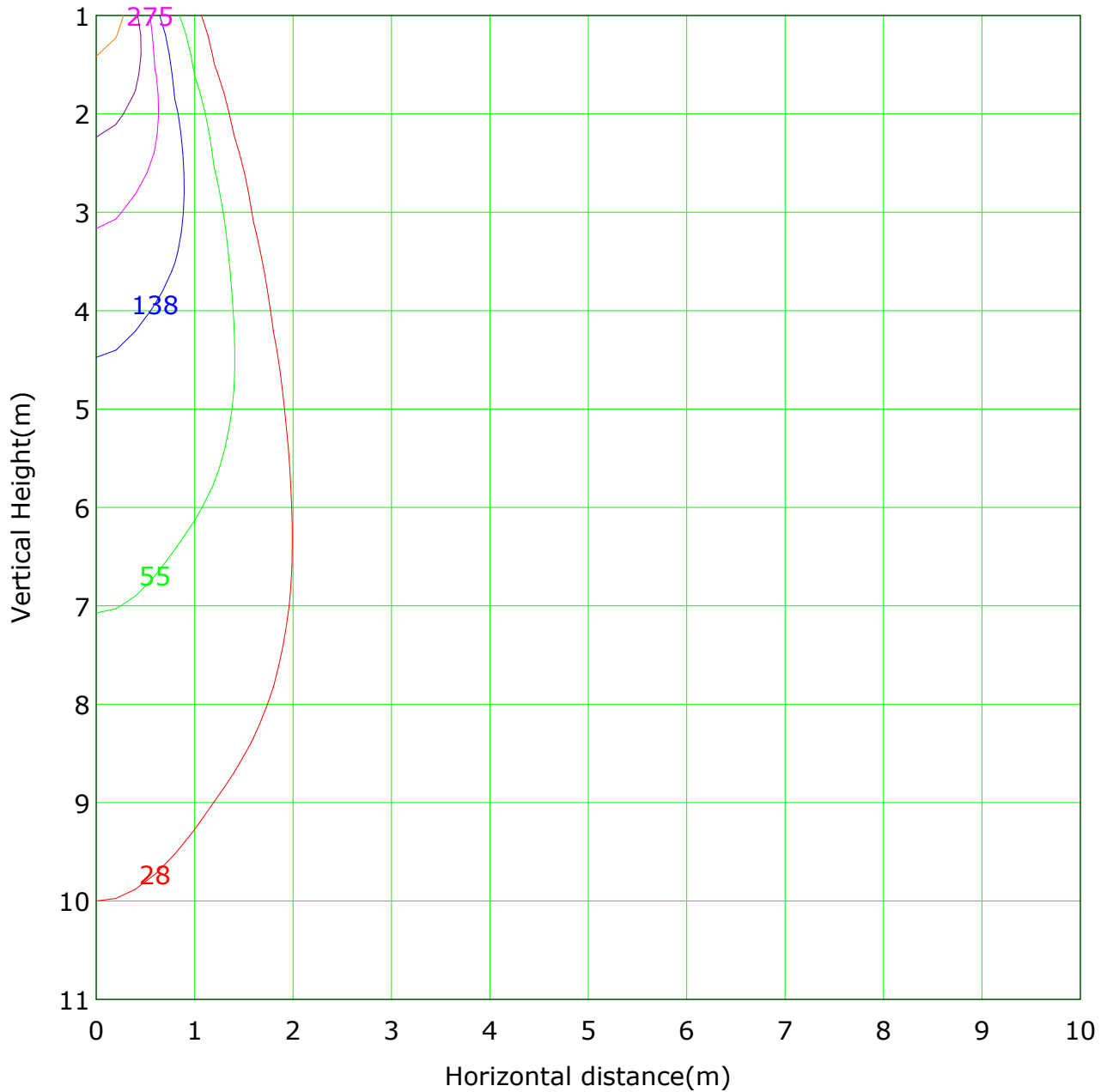
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



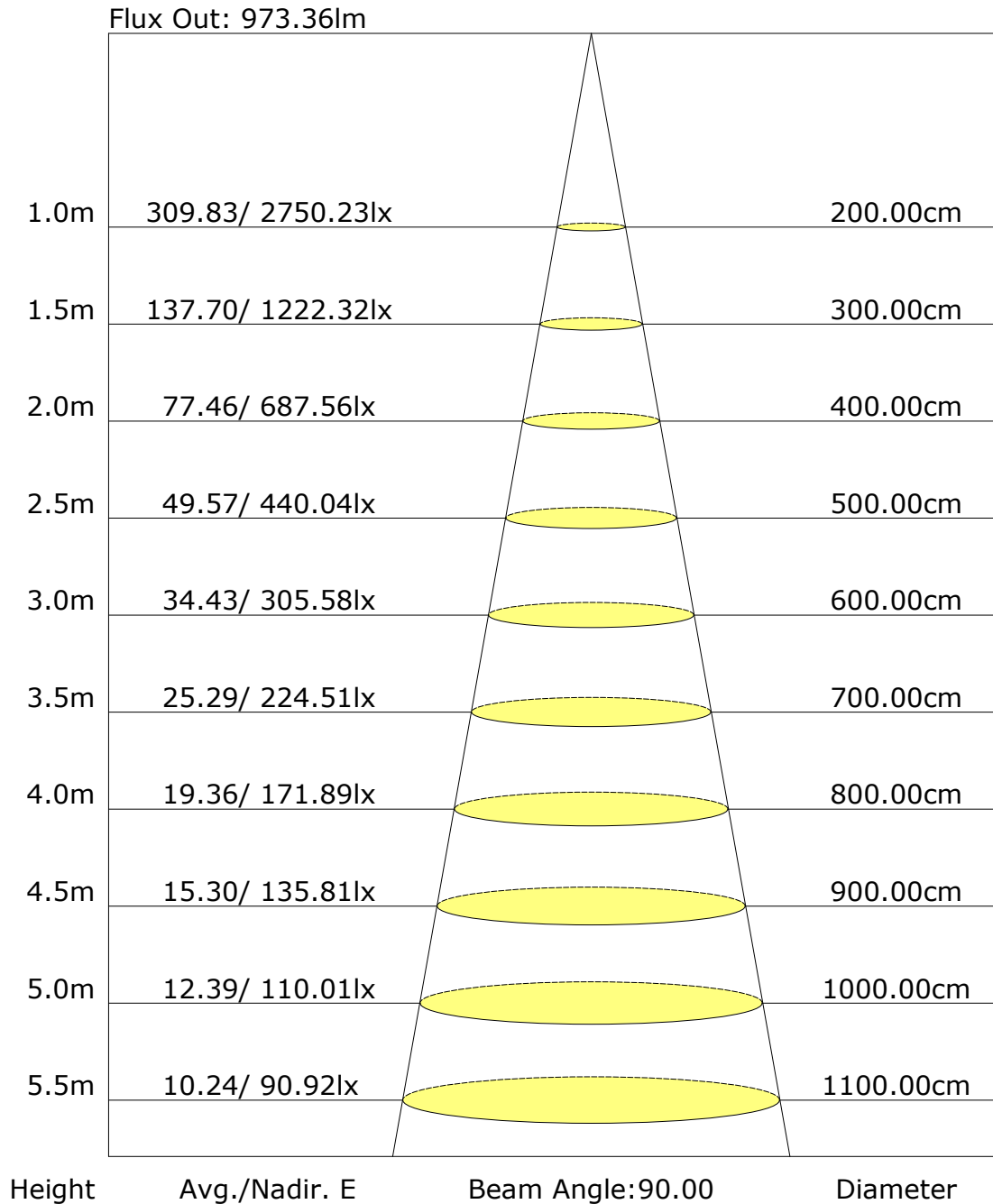
Lowest(m): 1m    Highest(m): 11    Max Lux: 2750

( 1%): 28 lx	( 2%): 55 lx
( 5%): 138 lx	( 10%): 275 lx
( 20%): 550 lx	( 50%): 1375 lx
(100%): 2750 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	2744.0	2.6	2.6	0.26	0.26
1.0-2.0	2718.1	7.8	10.4	0.76	1.01
2.0-3.0	2671.2	12.8	23.2	1.24	2.25
3.0-4.0	2611.6	17.5	40.7	1.70	3.95
4.0-5.0	2542.2	21.9	62.6	2.13	6.08
5.0-6.0	2465.8	25.9	88.5	2.52	8.60
6.0-7.0	2386.5	29.6	118.1	2.88	11.48
7.0-8.0	2306.8	33.0	151.1	3.21	14.69
8.0-9.0	2226.2	36.1	187.2	3.51	18.19
9.0-10.0	2141.5	38.8	226.0	3.77	21.96
10.0-11.0	2050.0	41.0	266.9	3.98	25.94
11.0-12.0	1950.5	42.6	309.6	4.14	30.08
12.0-13.0	1841.6	43.7	353.3	4.25	34.33
13.0-14.0	1724.3	44.1	397.4	4.29	38.62
14.0-15.0	1600.3	43.9	441.4	4.27	42.89
15.0-16.0	1469.8	43.1	484.4	4.19	47.08
16.0-17.0	1333.9	41.5	526.0	4.04	51.11
17.0-18.0	1195.6	39.4	565.4	3.83	54.94
18.0-19.0	1060.0	36.9	602.3	3.58	58.53
19.0-20.0	932.7	34.1	636.4	3.32	61.85
20.0-21.0	816.6	31.4	667.8	3.05	64.89
21.0-22.0	711.9	28.6	696.4	2.78	67.67
22.0-23.0	619.3	26.0	722.4	2.53	70.20
23.0-24.0	539.1	23.6	746.0	2.29	72.49
24.0-25.0	471.1	21.4	767.4	2.08	74.57
25.0-26.0	413.5	19.5	786.9	1.90	76.47
26.0-27.0	364.9	17.9	804.8	1.73	78.20
27.0-28.0	323.7	16.4	821.2	1.59	79.80
28.0-29.0	288.4	15.1	836.3	1.47	81.26
29.0-30.0	257.8	13.9	850.2	1.35	82.61
30.0-31.0	230.9	12.9	863.0	1.25	83.86
31.0-32.0	207.1	11.9	874.9	1.15	85.02
32.0-33.0	185.8	11.0	885.8	1.06	86.08
33.0-34.0	167.1	10.1	896.0	0.98	87.06
34.0-35.0	150.6	9.4	905.3	0.91	87.97
35.0-36.0	136.4	8.7	914.0	0.84	88.82

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	124.2	8.1	922.1	0.79	89.60
37.0-38.0	113.8	7.6	929.7	0.74	90.34
38.0-39.0	104.9	7.2	936.9	0.70	91.04
39.0-40.0	97.7	6.8	943.7	0.66	91.70
40.0-41.0	92.2	6.6	950.2	0.64	92.34
41.0-42.0	87.4	6.4	956.6	0.62	92.96
42.0-43.0	80.9	6.0	962.6	0.58	93.54
43.0-44.0	73.8	5.6	968.2	0.54	94.08
44.0-45.0	67.7	5.2	973.4	0.51	94.58
45.0-46.0	62.6	4.9	978.3	0.48	95.06
46.0-47.0	58.3	4.6	982.9	0.45	95.51
47.0-48.0	54.1	4.4	987.3	0.42	95.94
48.0-49.0	50.0	4.1	991.4	0.40	96.34
49.0-50.0	46.1	3.8	995.2	0.37	96.71
50.0-51.0	42.3	3.6	998.8	0.35	97.06
51.0-52.0	38.8	3.3	1002.1	0.32	97.38
52.0-53.0	35.4	3.1	1005.2	0.30	97.68
53.0-54.0	32.2	2.8	1008.1	0.28	97.96
54.0-55.0	29.2	2.6	1010.7	0.25	98.21
55.0-56.0	26.3	2.4	1013.0	0.23	98.44
56.0-57.0	23.6	2.2	1015.2	0.21	98.65
57.0-58.0	21.2	2.0	1017.2	0.19	98.84
58.0-59.0	19.0	1.8	1018.9	0.17	99.01
59.0-60.0	16.9	1.6	1020.5	0.15	99.17
60.0-61.0	14.8	1.4	1021.9	0.14	99.30
61.0-62.0	12.8	1.2	1023.2	0.12	99.43
62.0-63.0	10.9	1.1	1024.2	0.10	99.53
63.0-64.0	8.9	0.9	1025.1	0.09	99.61
64.0-65.0	7.4	0.7	1025.8	0.07	99.68
65.0-66.0	6.1	0.6	1026.4	0.06	99.74
66.0-67.0	5.1	0.5	1027.0	0.05	99.79
67.0-68.0	4.0	0.4	1027.4	0.04	99.83
68.0-69.0	3.0	0.3	1027.7	0.03	99.86
69.0-70.0	2.1	0.2	1027.9	0.02	99.88
70.0-71.0	1.4	0.1	1028.0	0.01	99.90
71.0-72.0	1.0	0.1	1028.1	0.01	99.91

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	2750.2	2750.2								
G1.0	2744.0	2731.4								
G2.0	2707.9	2689.0								
G3.0	2650.2	2637.6								
G4.0	2578.9	2579.8								
G5.0	2494.9	2515.1								
G6.0	2406.2	2447.1								
G7.0	2316.1	2376.7								
G8.0	2229.2	2305.2								
G9.0	2146.0	2224.6								
G10.0	2062.5	2133.0								
G11.0	1971.6	2033.2								
G12.0	1876.4	1921.1								
G13.0	1769.8	1799.3								
G14.0	1656.3	1671.9								
G15.0	1535.9	1537.1								
G16.0	1409.4	1396.9								
G17.0	1276.1	1253.1								
G18.0	1141.5	1111.5								
G19.0	1009.7	977.2								
G20.0	887.4	856.6								
G21.0	775.7	746.7								
G22.0	676.6	648.7								
G23.0	588.3	563.6								
G24.0	513.0	491.6								
G25.0	448.8	430.9								
G26.0	393.8	380.5								
G27.0	346.9	338.3								
G28.0	306.8	302.7								
G29.0	272.0	272.0								
G30.0	242.6	244.4								
G31.0	217.3	219.5								
G32.0	194.7	197.0								
G33.0	174.6	177.2								
G34.0	157.2	159.4								
G35.0	141.8	144.1								
G36.0	128.7	131.1								

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:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	117.2	119.9								
G38.0	107.3	110.7								
G39.0	98.3	103.2								
G40.0	91.1	98.1								
G41.0	84.8	95.0								
G42.0	78.8	91.0								
G43.0	74.0	79.9								
G44.0	69.4	71.8								
G45.0	65.1	64.6								
G46.0	61.5	59.3								
G47.0	57.7	54.6								
G48.0	53.6	50.4								
G49.0	49.8	46.2								
G50.0	45.9	42.6								
G51.0	42.0	38.9								
G52.0	38.6	35.6								
G53.0	35.4	32.2								
G54.0	32.3	29.0								
G55.0	29.4	26.0								
G56.0	26.7	23.2								
G57.0	24.0	20.6								
G58.0	21.6	18.5								
G59.0	19.4	16.4								
G60.0	17.3	14.4								
G61.0	15.6	11.9								
G62.0	13.9	9.9								
G63.0	11.4	8.2								
G64.0	9.6	6.6								
G65.0	7.9	5.5								
G66.0	6.8	4.2								
G67.0	5.7	3.5								
G68.0	4.5	2.5								
G69.0	3.5	1.6								
G70.0	2.4	0.9								
G71.0	1.6	0.6								
G72.0	1.1	0.6								
G73.0	1.0	0.6								

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

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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: