

Report No.: 55.05017 Mine Rcessed  
Downlight

Test Time: 2024-09-29 20:28

## Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.177 A

Power Factor: 0.977

Voltage: 231.5 V

Power: 40.10 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 3485.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H48.9

Vertical Diffuse Angle(50%): V48.9

Luminaire Efficacy Rating (LER): 87

Max. Intensity: 5028.96 cd

Total Rated Lamp Lumens: 3485.1 lm

Efficiency: 100%

Upward Ratio: 0%

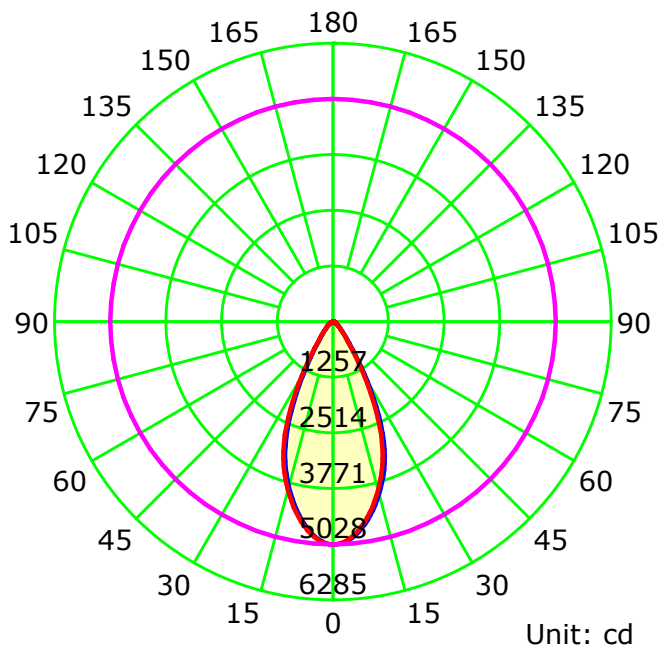
Central Intensity: 5028.96 cd

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

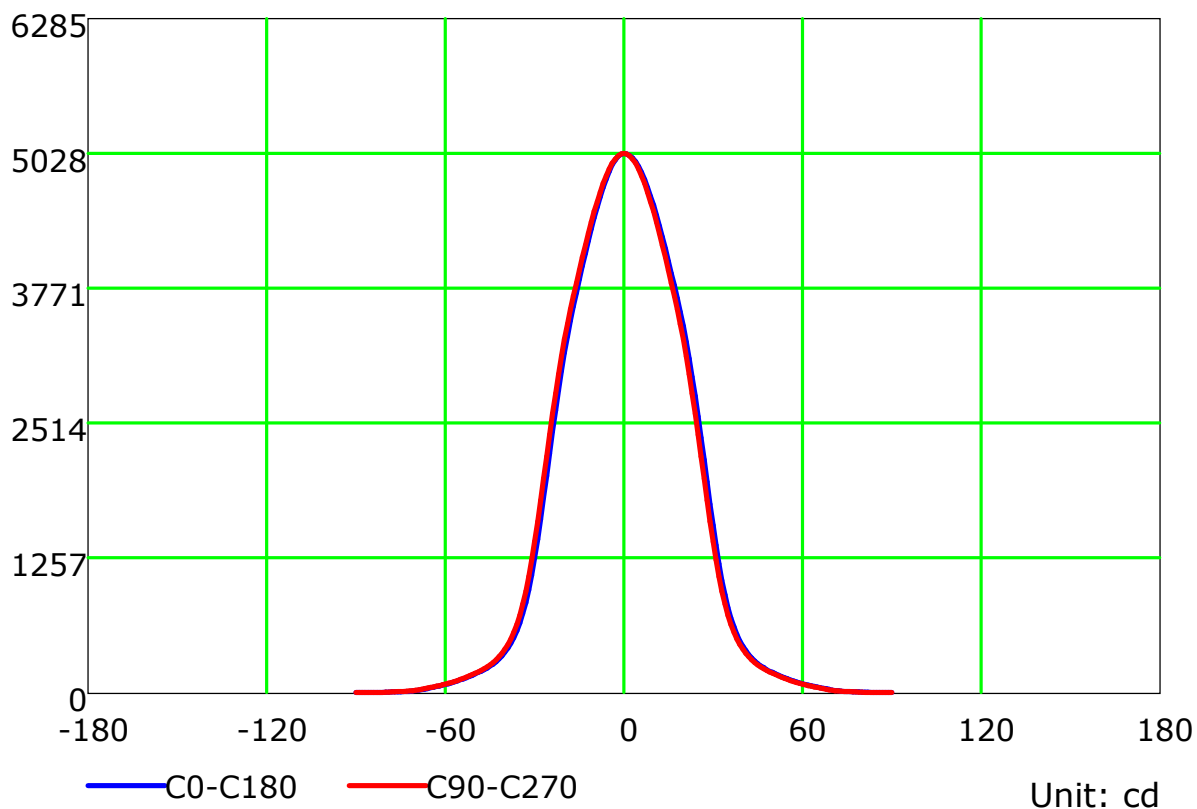
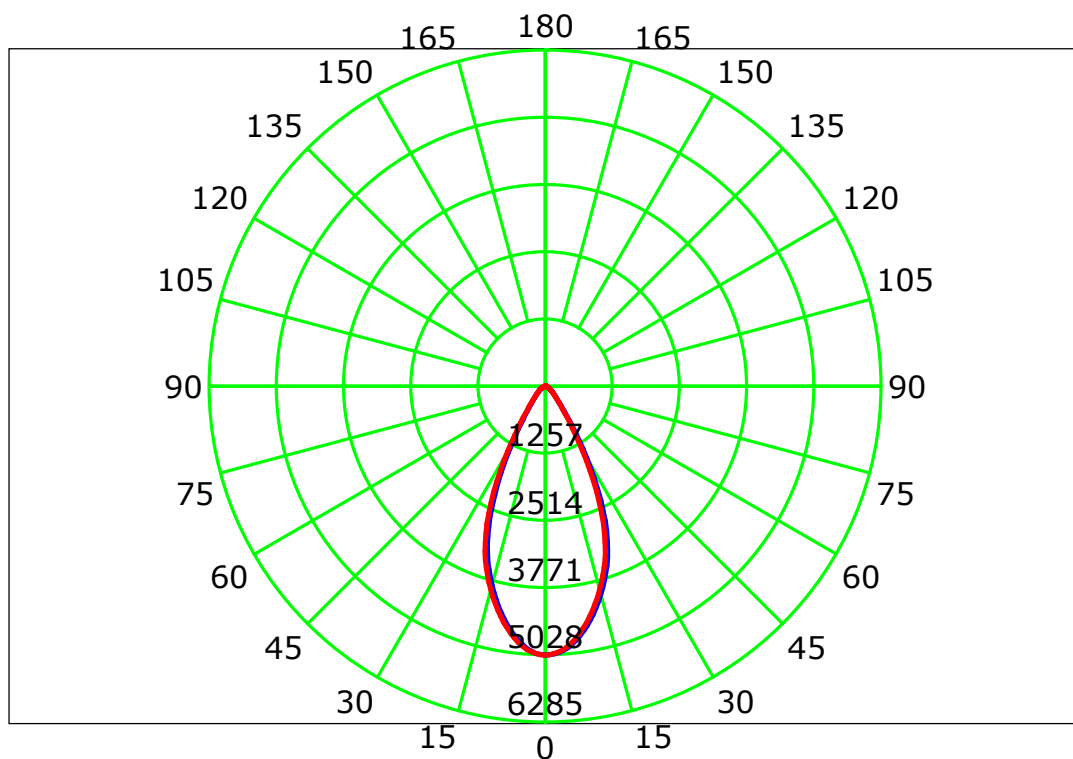
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

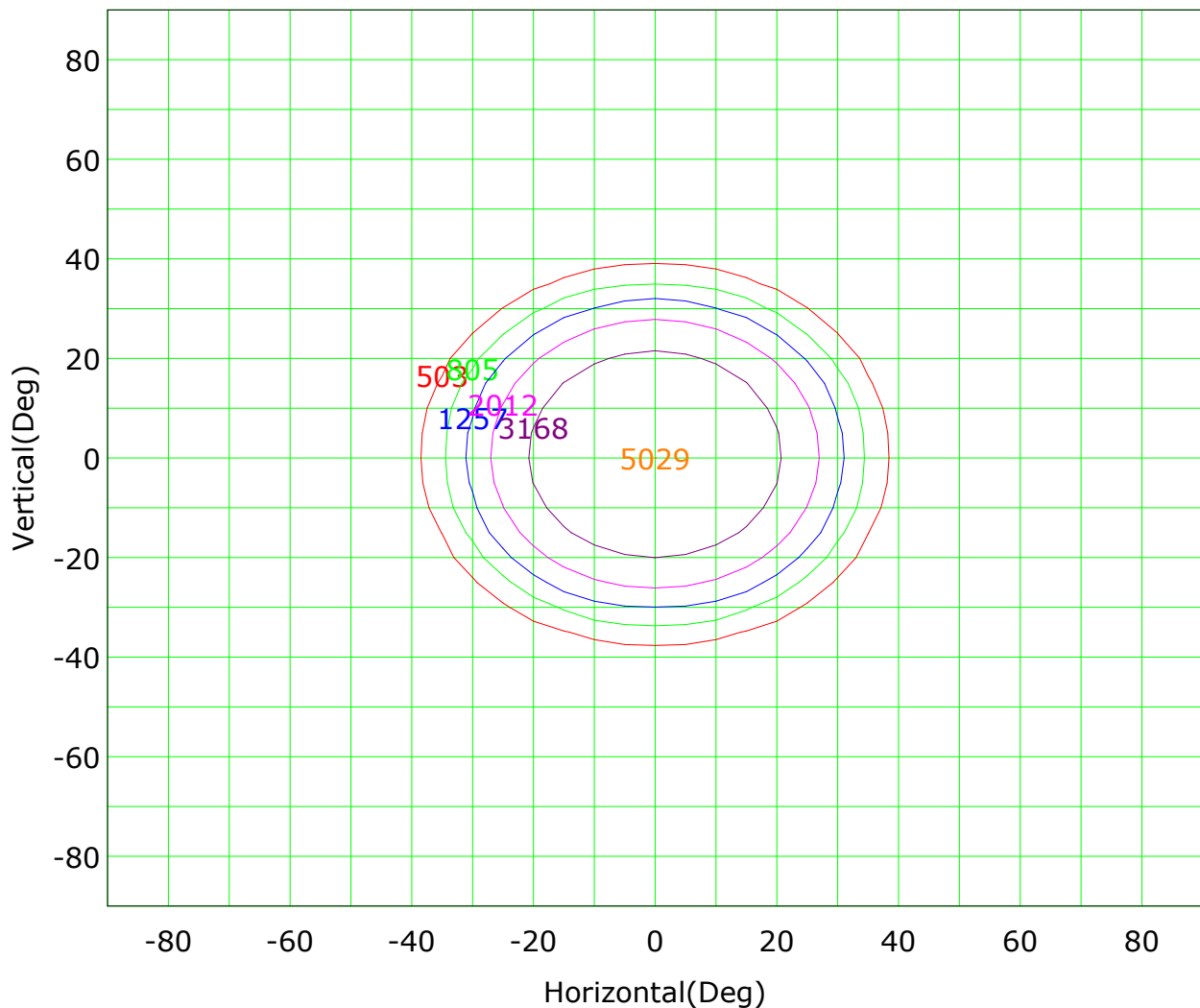
## Luminous Intensity Distribution Curve



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%): 5029 cd

( 10%): 503 cd	( 16%): 805 cd
( 25%): 1257 cd	( 40%): 2012 cd
( 63%): 3168 cd	(100%): 5029 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

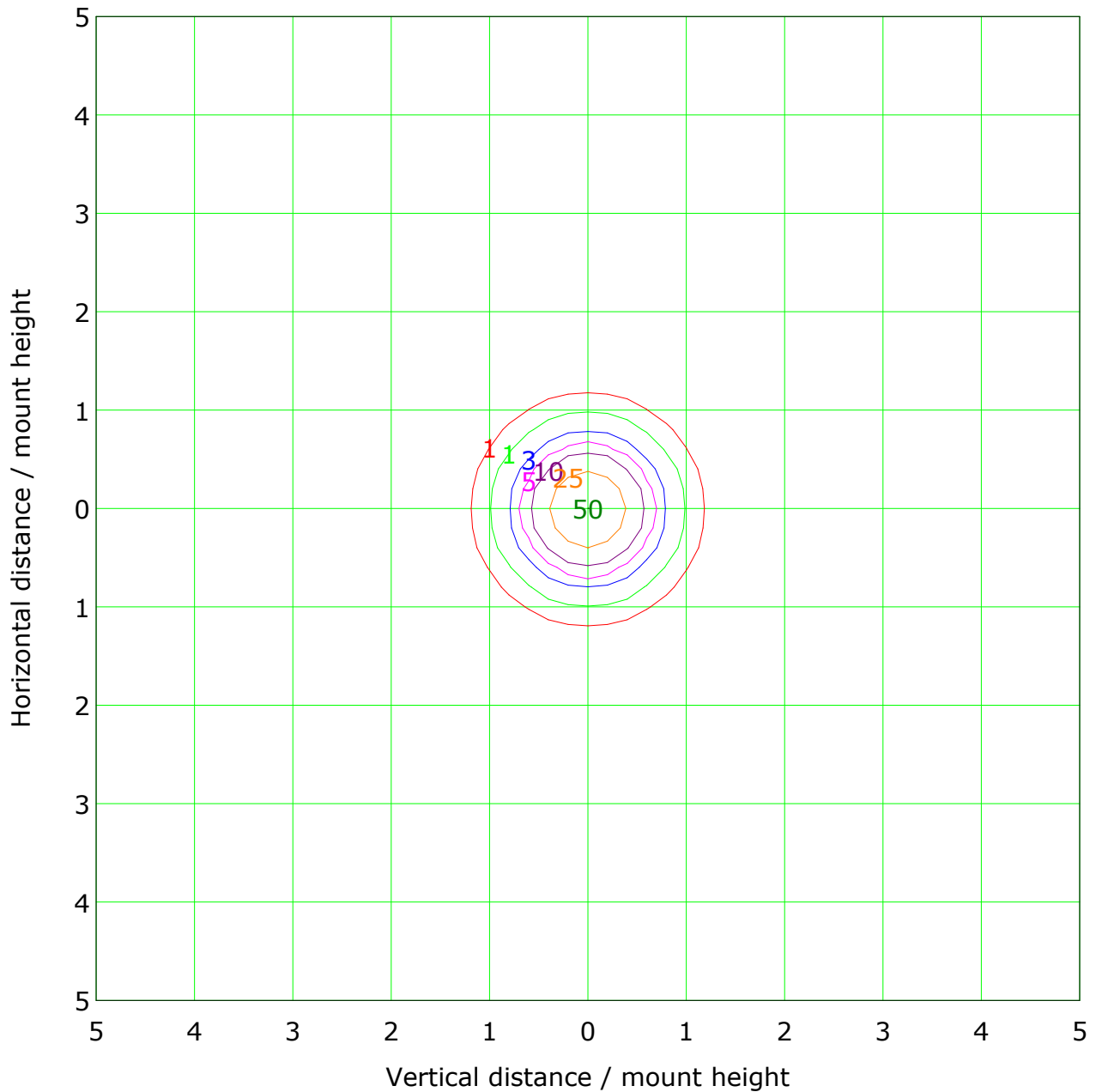
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10m		Max Lux(100%): 50 lx	
( 1%):	1 lx	( 2%):	1 lx
( 5%):	3 lx	( 10%):	5 lx
( 20%):	10 lx	( 50%):	25 lx
(100%):	50 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

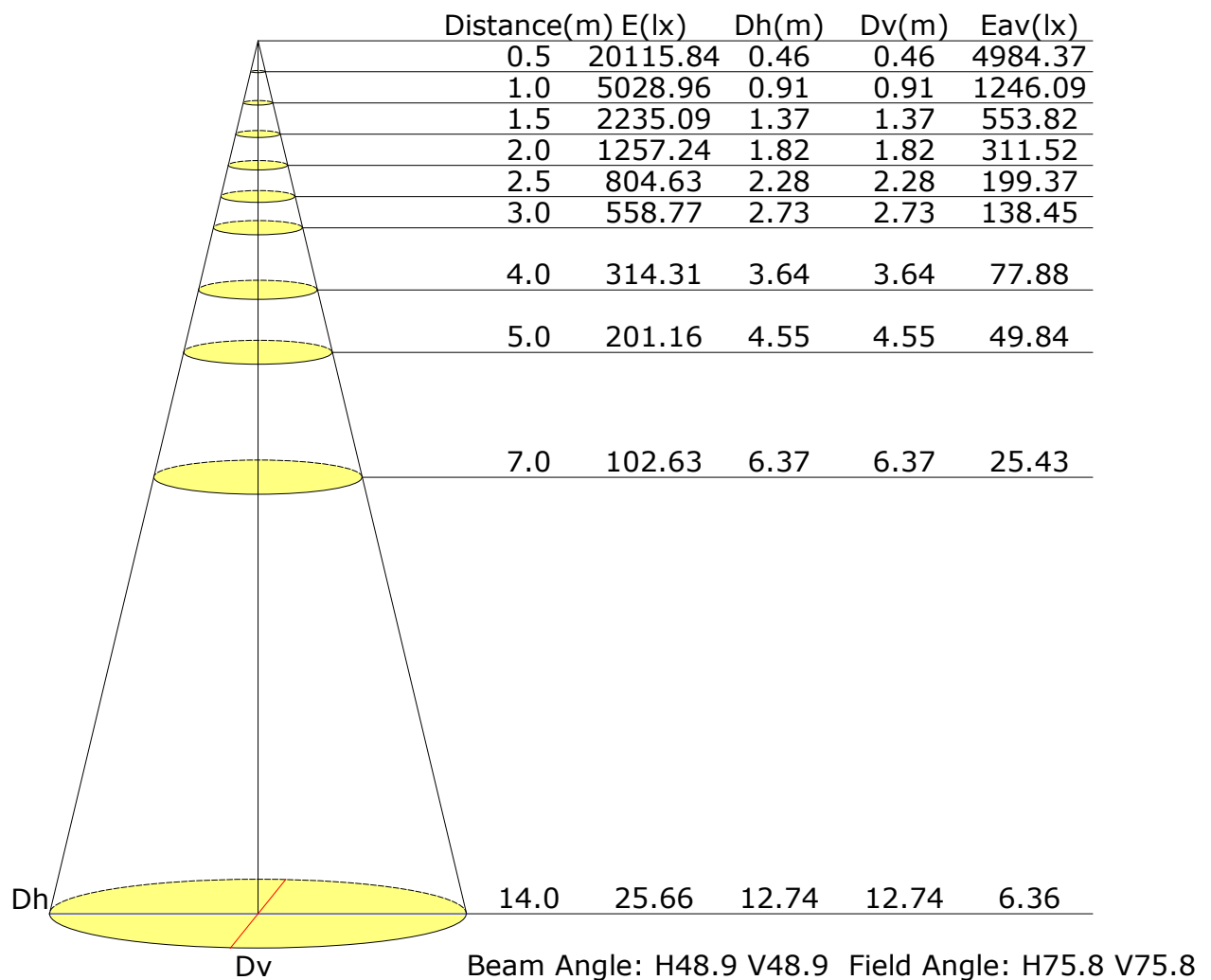
Test Device: CHL-6E

Distance: 3.328 m

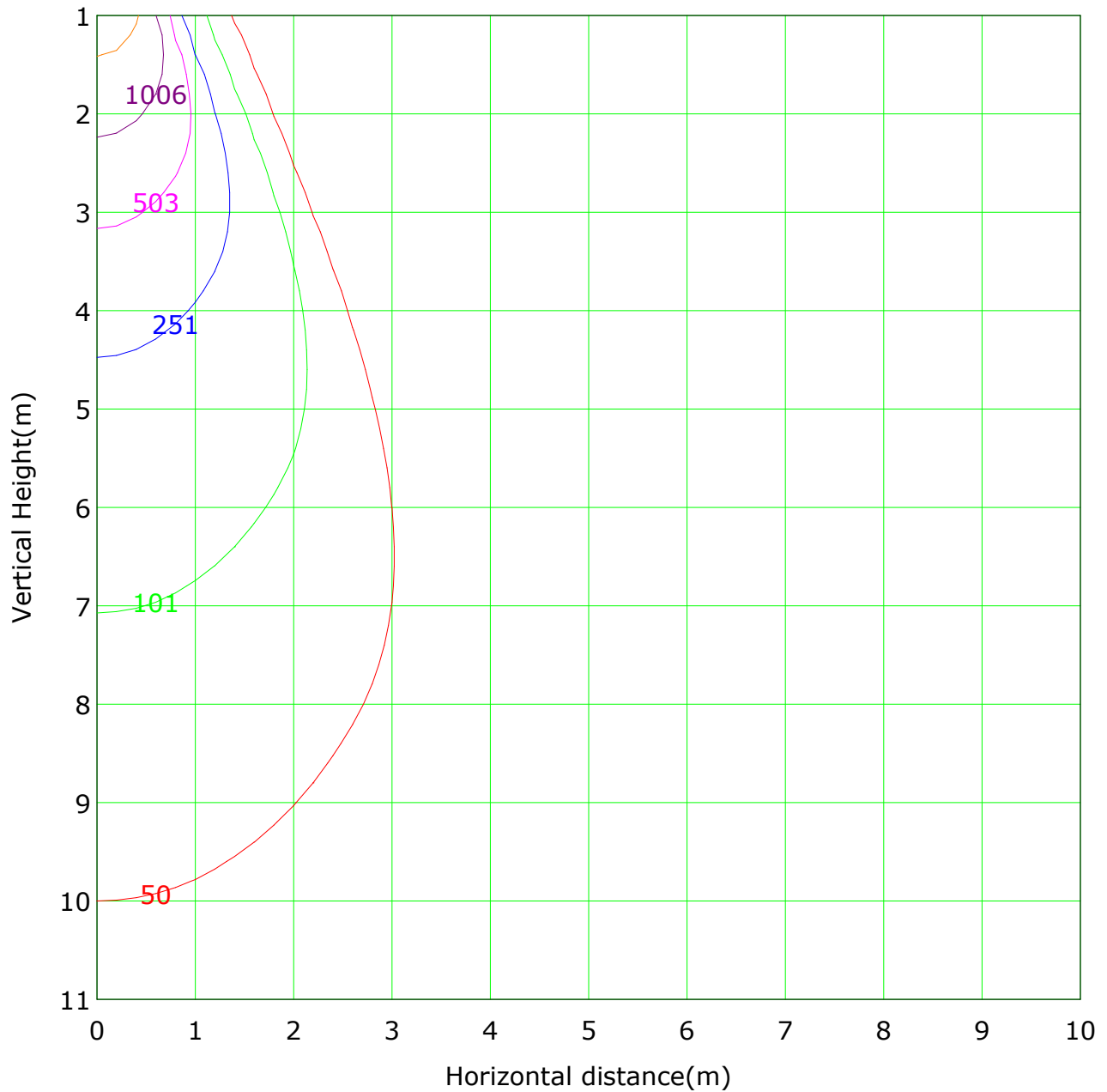
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



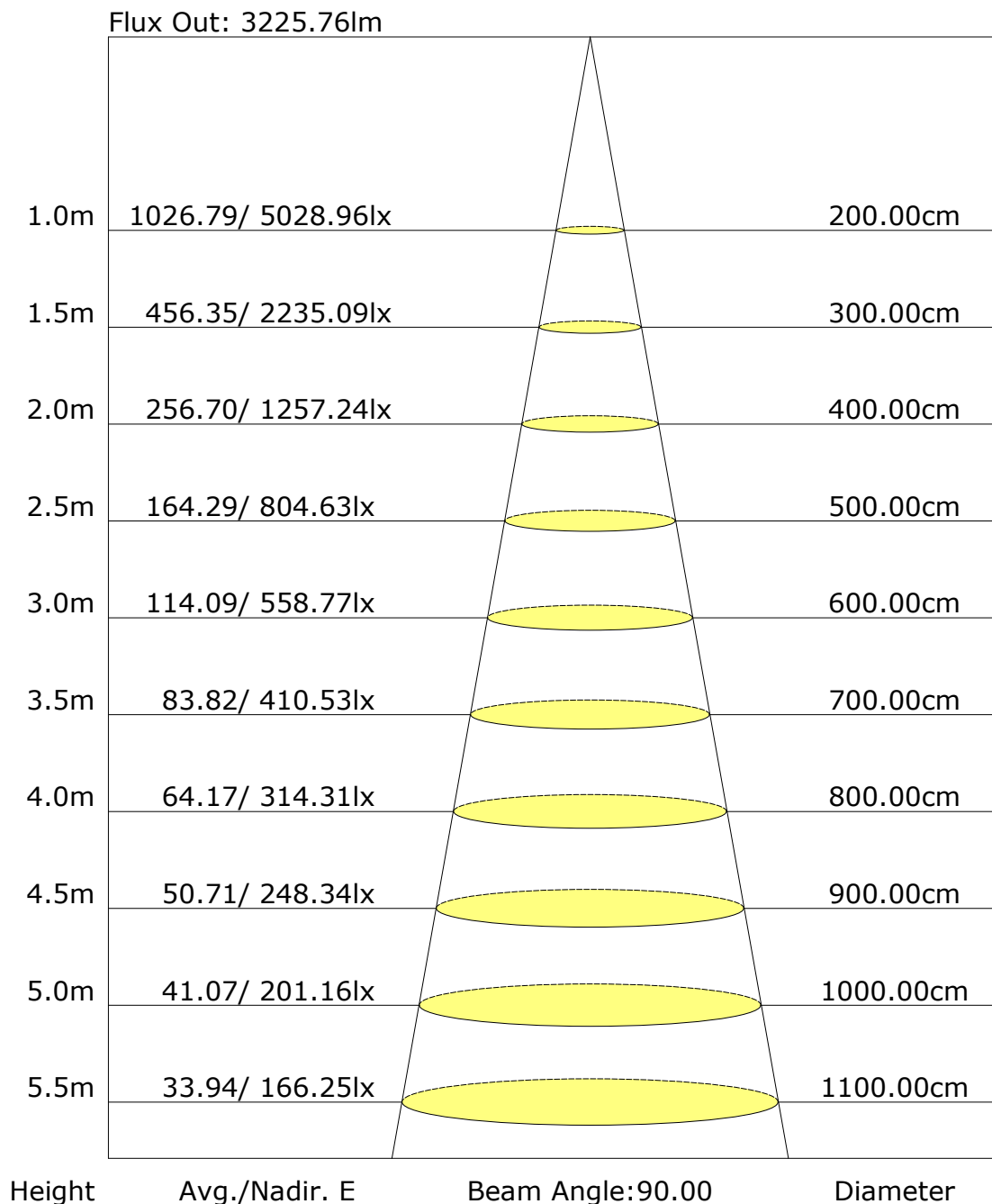
Lowest(m): 1m    Highest(m): 11    Max Lux: 5029

— ( 1%):    50 lx	— ( 2%):    101 lx
— ( 5%):    251 lx	— ( 10%):    503 lx
— ( 20%):    1006 lx	— ( 50%):    2514 lx
— (100%):    5029 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	5026.5	4.8	4.8	0.14	0.14
1.0-2.0	5015.2	14.4	19.2	0.41	0.55
2.0-3.0	4992.2	23.9	43.1	0.69	1.24
3.0-4.0	4958.2	33.2	76.3	0.95	2.19
4.0-5.0	4911.8	42.3	118.5	1.21	3.40
5.0-6.0	4853.5	51.0	169.6	1.46	4.87
6.0-7.0	4785.2	59.4	229.0	1.70	6.57
7.0-8.0	4707.6	67.4	296.3	1.93	8.50
8.0-9.0	4623.5	74.9	371.3	2.15	10.65
9.0-10.0	4534.4	82.1	453.3	2.35	13.01
10.0-11.0	4439.0	88.7	542.1	2.55	15.55
11.0-12.0	4336.8	94.8	636.9	2.72	18.27
12.0-13.0	4228.9	100.4	737.2	2.88	21.15
13.0-14.0	4117.0	105.4	842.6	3.02	24.18
14.0-15.0	4000.5	109.8	952.5	3.15	27.33
15.0-16.0	3881.4	113.7	1066.2	3.26	30.59
16.0-17.0	3761.1	117.1	1183.4	3.36	33.96
17.0-18.0	3637.4	119.9	1303.3	3.44	37.40
18.0-19.0	3506.5	122.0	1425.3	3.50	40.90
19.0-20.0	3366.3	123.2	1548.6	3.54	44.43
20.0-21.0	3216.0	123.5	1672.1	3.54	47.98
21.0-22.0	3053.7	122.7	1794.8	3.52	51.50
22.0-23.0	2880.7	120.9	1915.7	3.47	54.97
23.0-24.0	2697.4	118.0	2033.6	3.38	58.35
24.0-25.0	2503.9	113.9	2147.5	3.27	61.62
25.0-26.0	2303.5	108.7	2256.2	3.12	64.74
26.0-27.0	2099.3	102.7	2359.0	2.95	67.69
27.0-28.0	1894.9	95.9	2454.9	2.75	70.44
28.0-29.0	1694.2	88.6	2543.6	2.54	72.98
29.0-30.0	1501.9	81.1	2624.7	2.33	75.31
30.0-31.0	1322.7	73.6	2698.3	2.11	77.42
31.0-32.0	1159.4	66.4	2764.7	1.91	79.33
32.0-33.0	1012.9	59.7	2824.4	1.71	81.04
33.0-34.0	884.5	53.5	2877.9	1.54	82.58
34.0-35.0	773.5	48.0	2926.0	1.38	83.96
35.0-36.0	679.4	43.3	2969.2	1.24	85.20

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	599.9	39.1	3008.4	1.12	86.32
37.0-38.0	532.0	35.5	3043.9	1.02	87.34
38.0-39.0	475.3	32.4	3076.3	0.93	88.27
39.0-40.0	427.3	29.8	3106.1	0.86	89.13
40.0-41.0	386.1	27.5	3133.6	0.79	89.92
41.0-42.0	350.9	25.5	3159.1	0.73	90.65
42.0-43.0	320.4	23.7	3182.9	0.68	91.33
43.0-44.0	293.3	22.1	3205.0	0.64	91.96
44.0-45.0	269.9	20.7	3225.8	0.60	92.56
45.0-46.0	249.6	19.5	3245.3	0.56	93.12
46.0-47.0	231.6	18.4	3263.7	0.53	93.65
47.0-48.0	214.7	17.4	3281.1	0.50	94.15
48.0-49.0	200.1	16.4	3297.5	0.47	94.62
49.0-50.0	187.3	15.6	3313.1	0.45	95.07
50.0-51.0	174.5	14.8	3327.9	0.42	95.49
51.0-52.0	162.4	13.9	3341.8	0.40	95.89
52.0-53.0	150.5	13.1	3354.9	0.38	96.27
53.0-54.0	139.0	12.3	3367.2	0.35	96.62
54.0-55.0	129.0	11.5	3378.7	0.33	96.95
55.0-56.0	119.1	10.8	3389.4	0.31	97.26
56.0-57.0	108.8	9.9	3399.4	0.29	97.54
57.0-58.0	99.7	9.2	3408.6	0.26	97.81
58.0-59.0	91.3	8.5	3417.2	0.24	98.05
59.0-60.0	83.5	7.9	3425.0	0.23	98.28
60.0-61.0	76.0	7.3	3432.3	0.21	98.49
61.0-62.0	68.9	6.6	3438.9	0.19	98.68
62.0-63.0	63.0	6.1	3445.1	0.18	98.85
63.0-64.0	57.0	5.6	3450.7	0.16	99.01
64.0-65.0	50.8	5.0	3455.7	0.14	99.16
65.0-66.0	45.5	4.5	3460.2	0.13	99.29
66.0-67.0	39.6	4.0	3464.2	0.11	99.40
67.0-68.0	34.3	3.5	3467.7	0.10	99.50
68.0-69.0	29.3	3.0	3470.7	0.09	99.59
69.0-70.0	23.7	2.4	3473.1	0.07	99.66
70.0-71.0	19.3	2.0	3475.1	0.06	99.71
71.0-72.0	16.2	1.7	3476.8	0.05	99.76

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	5029.0	5029.0								
G1.0	5025.2	5022.7								
G2.0	5010.3	5002.8								
G3.0	4987.8	4967.9								
G4.0	4954.2	4923.0								
G5.0	4909.3	4860.7								
G6.0	4853.2	4790.9								
G7.0	4785.9	4711.1								
G8.0	4709.8	4623.8								
G9.0	4630.0	4530.3								
G10.0	4546.5	4430.6								
G11.0	4451.8	4327.1								
G12.0	4352.0	4216.1								
G13.0	4249.8	4097.7								
G14.0	4141.4	3979.3								
G15.0	4025.4	3855.9								
G16.0	3912.0	3732.4								
G17.0	3797.3	3602.8								
G18.0	3678.8	3470.6								
G19.0	3551.7	3324.8								
G20.0	3418.3	3170.2								
G21.0	3272.4	3003.2								
G22.0	3115.4	2823.6								
G23.0	2947.1	2636.6								
G24.0	2767.6	2438.4								
G25.0	2576.8	2232.7								
G26.0	2379.8	2024.6								
G27.0	2172.9	1820.1								
G28.0	1967.2	1619.4								
G29.0	1757.8	1432.4								
G30.0	1560.8	1256.6								
G31.0	1375.1	1098.3								
G32.0	1203.0	961.2								
G33.0	1045.9	841.5								
G34.0	912.5	738.0								
G35.0	794.1	649.5								
G36.0	696.9	577.2								

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	613.3	512.4								
G38.0	541.0	461.3								
G39.0	482.5	416.4								
G40.0	432.6	377.7								
G41.0	391.5	342.8								
G42.0	355.3	314.1								
G43.0	324.1	288.0								
G44.0	295.5	265.5								
G45.0	270.5	248.1								
G46.0	250.6	229.4								
G47.0	233.1	213.2								
G48.0	214.4	198.2								
G49.0	199.5	188.2								
G50.0	188.2	173.3								
G51.0	175.8	160.8								
G52.0	163.3	149.6								
G53.0	149.6	139.6								
G54.0	139.6	127.2								
G55.0	129.6	119.7								
G56.0	118.4	108.5								
G57.0	108.5	99.7								
G58.0	99.7	91.0								
G59.0	91.0	83.5								
G60.0	83.5	76.1								
G61.0	74.8	69.8								
G62.0	69.8	61.1								
G63.0	63.6	57.3								
G64.0	57.3	49.9								
G65.0	51.1	44.9								
G66.0	47.4	38.7								
G67.0	39.9	32.4								
G68.0	36.2	28.7								
G69.0	29.9	22.4								
G70.0	23.7	18.7								
G71.0	20.0	15.0								
G72.0	18.7	11.2								
G73.0	13.7	11.2								

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: