

Report No.: 60.04012 Mini Recessed
Downlight

Test Time: 2024-10-13 18:18

Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.049 A

Power Factor: 0.666

Voltage: 235.2 V

Power: 7.70 W

Photometric Results

CIE Class: Direct

Measurement Flux: 366 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H17.5

Vertical Diffuse Angle(50%): V17.5

Luminaire Efficacy Rating (LER): 48

Max. Intensity: 2853.15 cd

Total Rated Lamp Lumens: 366.0 lm

Efficiency: 100%

Upward Ratio: 0%

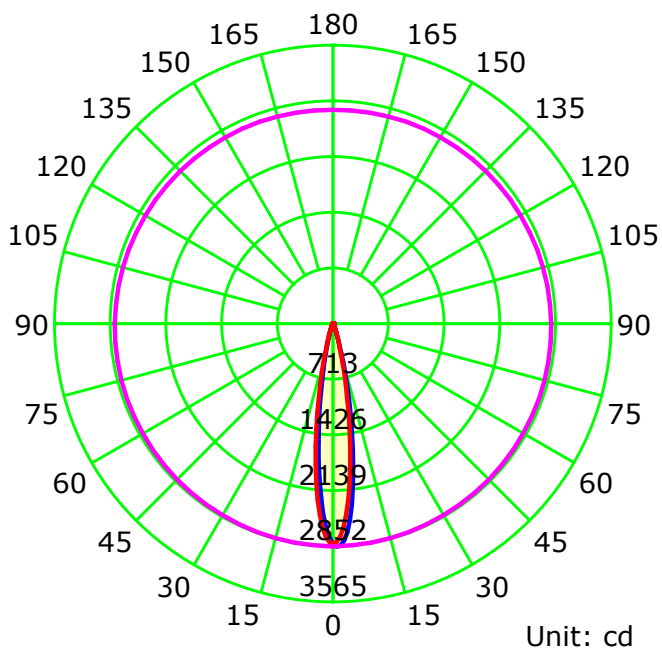
Central Intensity: 2819.51 cd

Pos of Max. Intensity: H0 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

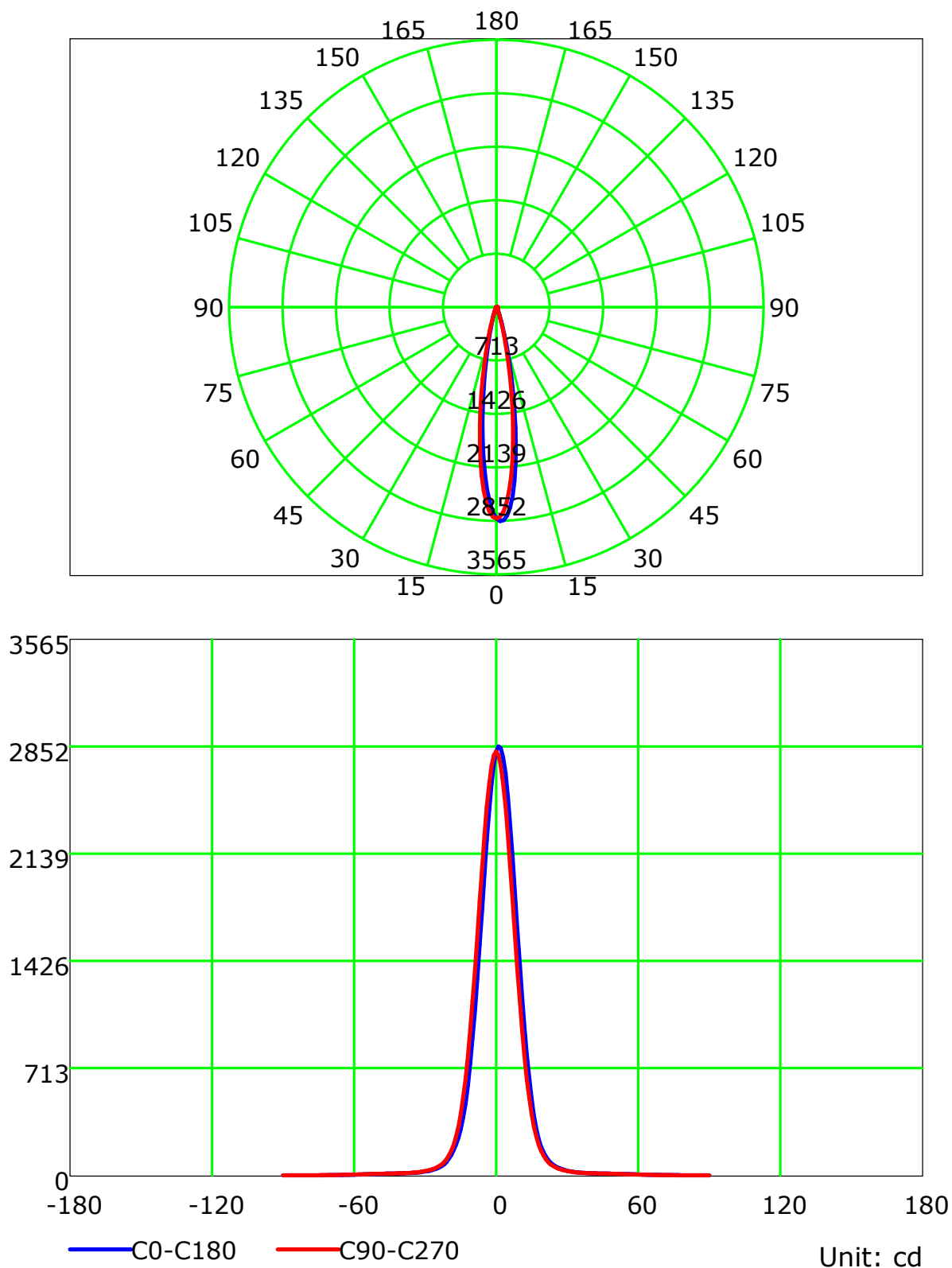
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

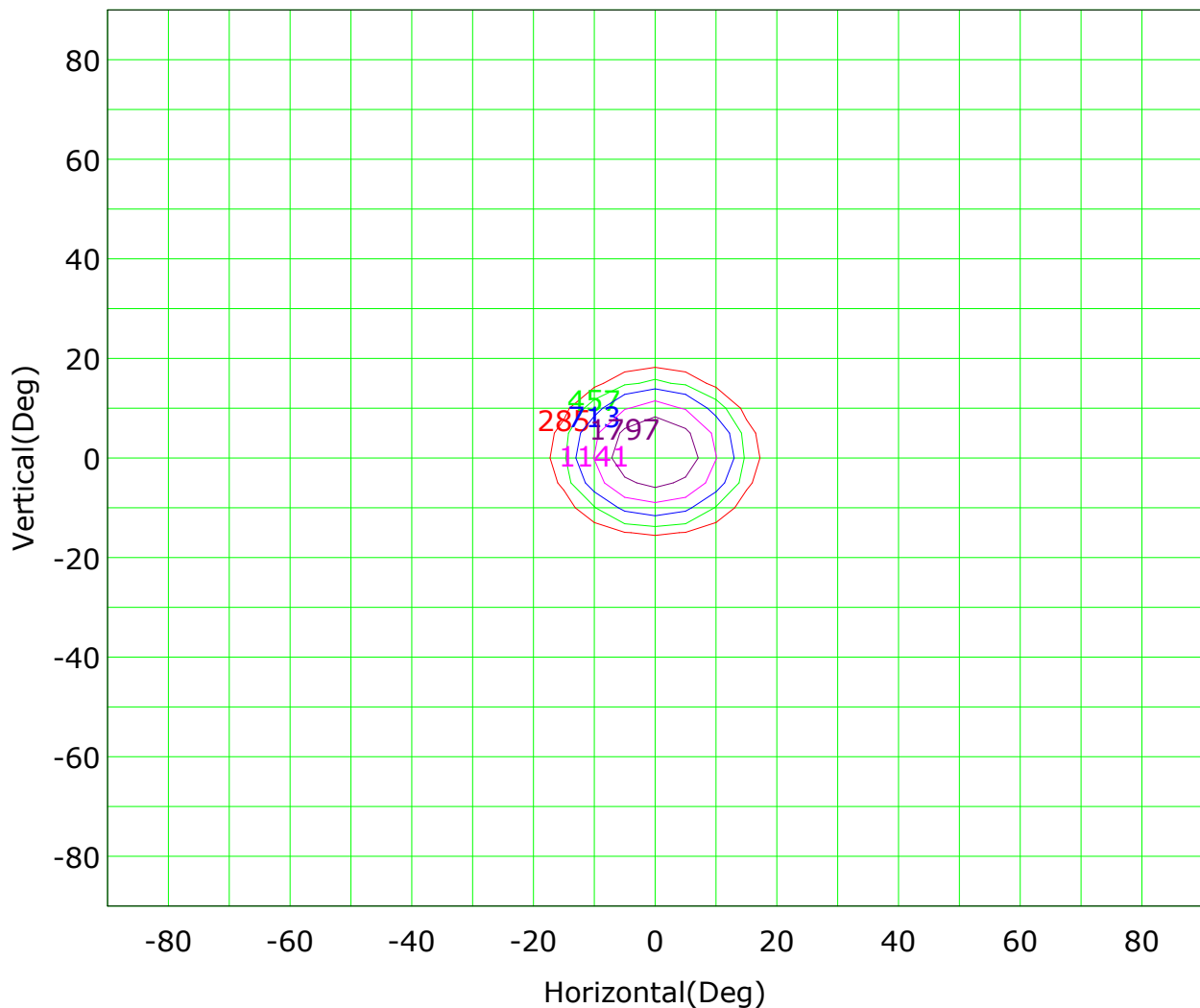
Luminous Intensity Distribution Curve



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%): 2853 cd

(10%): 285 cd	(16%): 457 cd
(25%): 713 cd	(40%): 1141 cd
(63%): 1797 cd	(100%): 2853 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

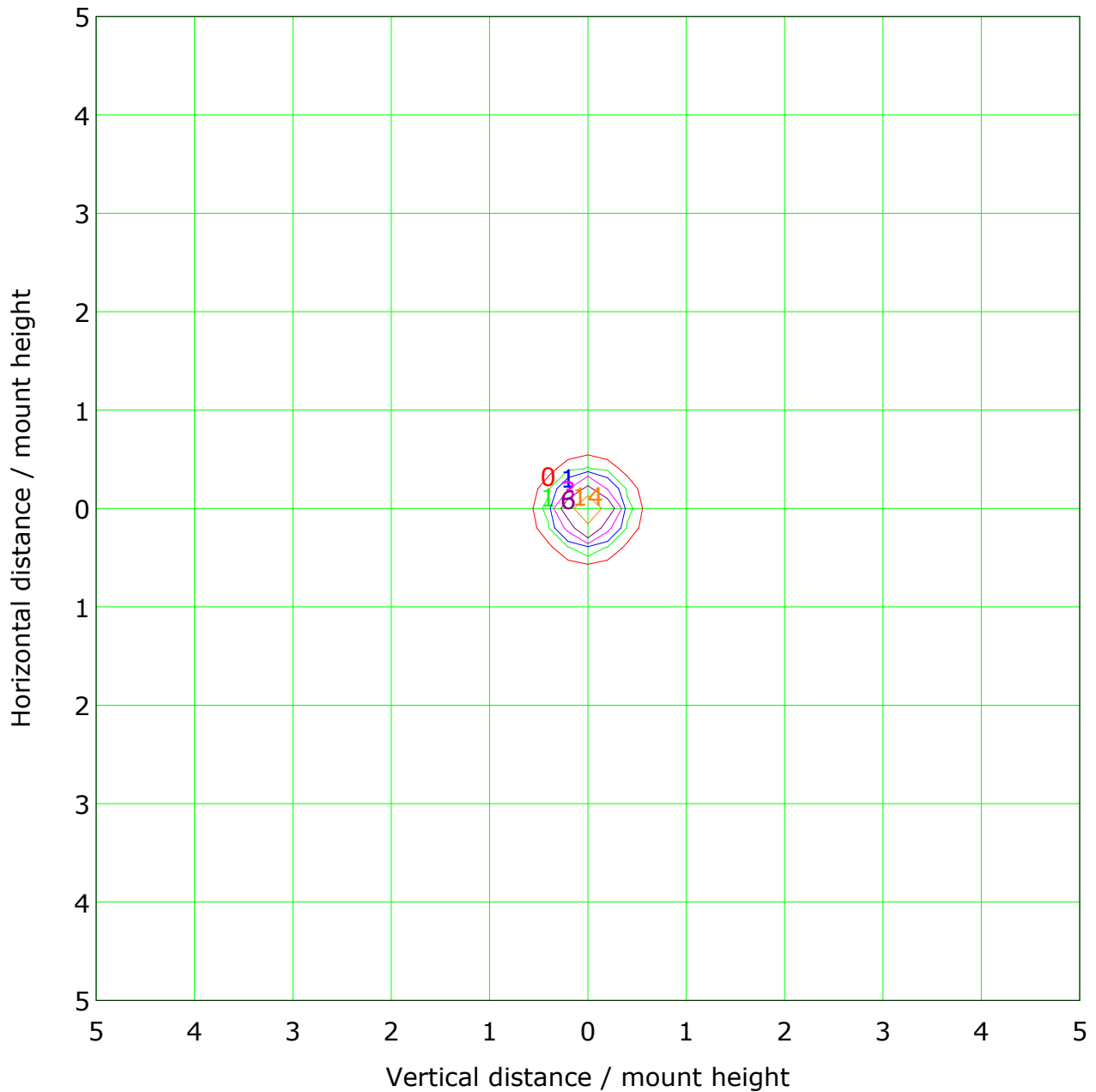
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10m Max Lux(100%): 29 lx			
— (1%):	0 lx	— (2%):	1 lx
— (5%):	1 lx	— (10%):	3 lx
— (20%):	6 lx	— (50%):	14 lx
— (100%):	29 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

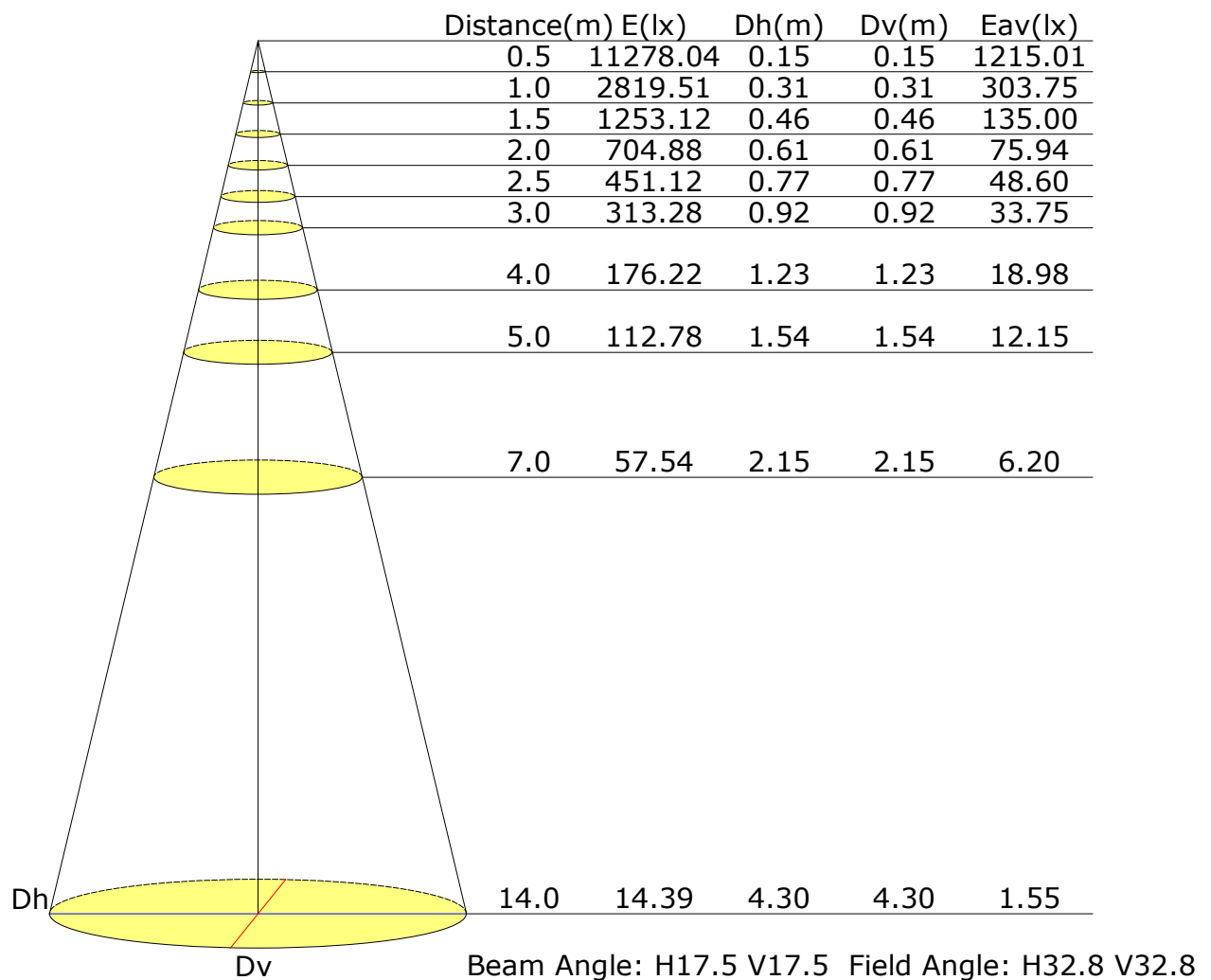
Test Device: CHL-6E

Distance: 3.328 m

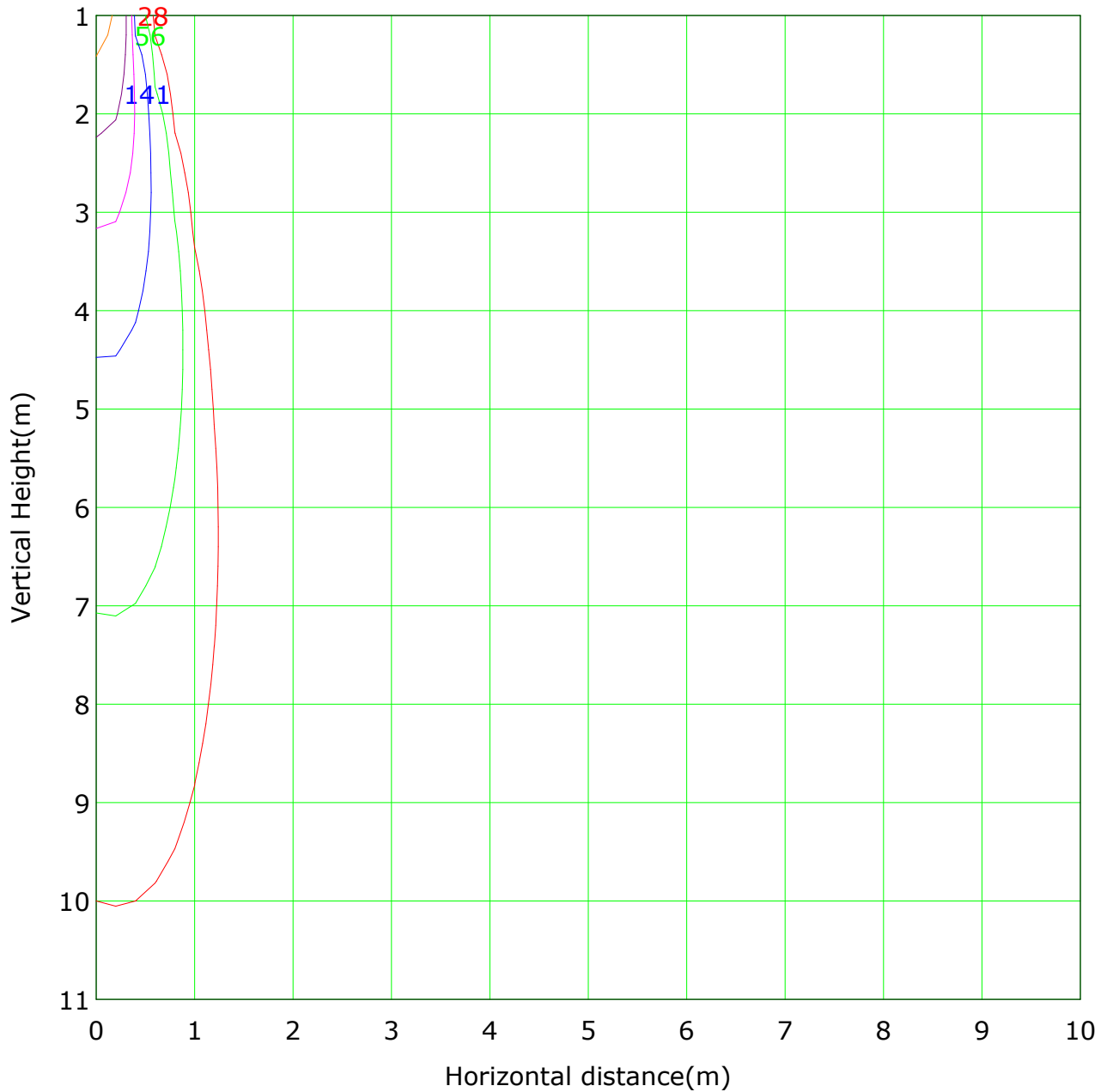
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



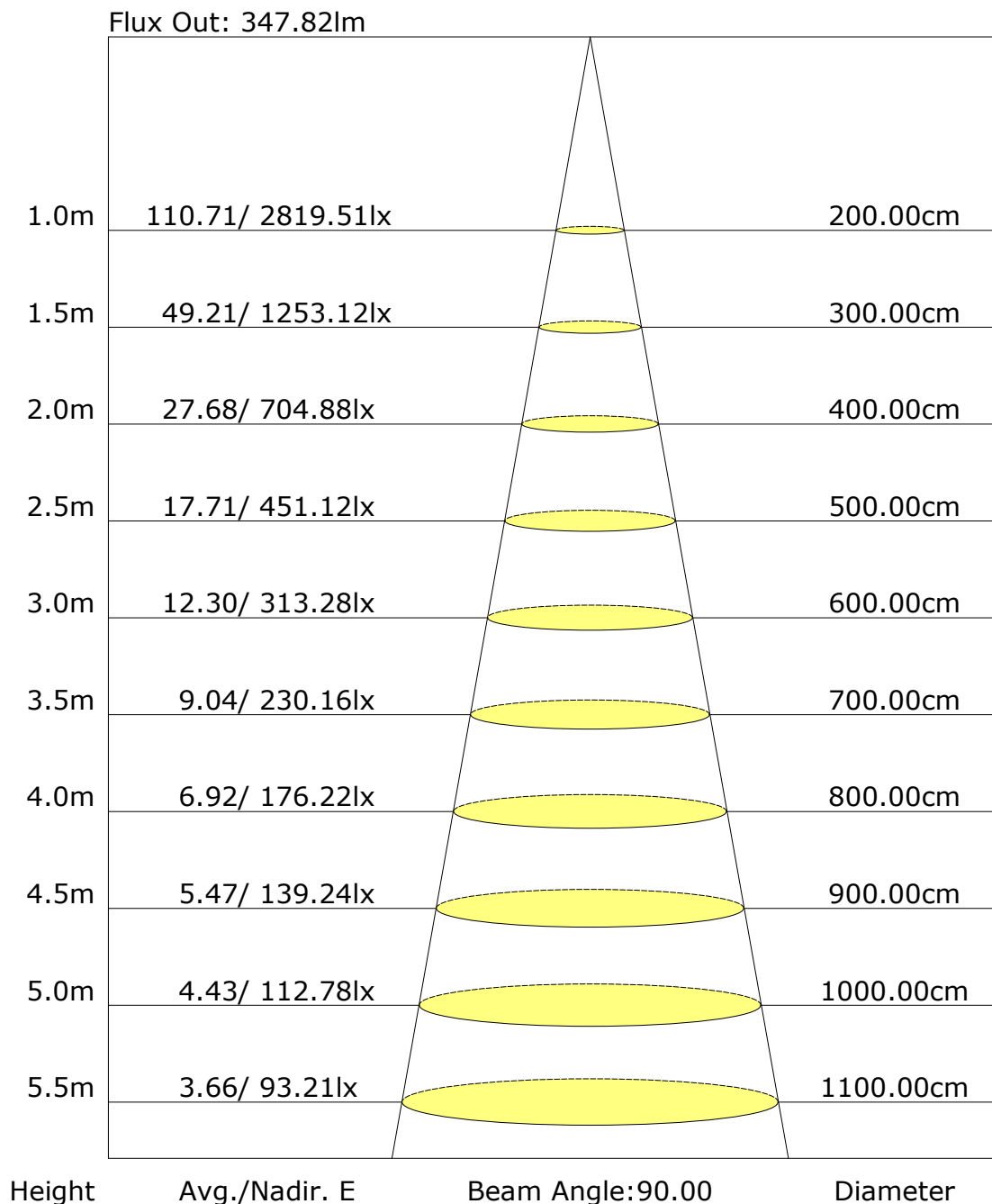
Lowest(m): 1m Highest(m): 11 Max Lux: 2820

(1%): 28 lx	(2%): 56 lx
(5%): 141 lx	(10%): 282 lx
(20%): 564 lx	(50%): 1410 lx
(100%): 2820 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	2807.8	2.7	2.7	0.73	0.73
1.0-2.0	2760.6	7.9	10.6	2.17	2.90
2.0-3.0	2667.4	12.8	23.4	3.49	6.39
3.0-4.0	2531.5	16.9	40.3	4.63	11.02
4.0-5.0	2357.8	20.3	60.6	5.54	16.56
5.0-6.0	2155.5	22.7	83.3	6.19	22.75
6.0-7.0	1934.1	24.0	107.3	6.56	29.31
7.0-8.0	1704.9	24.4	131.7	6.67	35.98
8.0-9.0	1479.8	24.0	155.7	6.55	42.53
9.0-10.0	1264.6	22.9	178.5	6.25	48.79
10.0-11.0	1062.5	21.2	199.8	5.80	54.59
11.0-12.0	879.3	19.2	219.0	5.25	59.84
12.0-13.0	718.2	17.0	236.1	4.66	64.50
13.0-14.0	579.6	14.8	250.9	4.05	68.55
14.0-15.0	463.6	12.7	263.6	3.48	72.03
15.0-16.0	367.8	10.8	274.4	2.95	74.98
16.0-17.0	290.4	9.0	283.4	2.47	77.45
17.0-18.0	230.4	7.6	291.0	2.08	79.52
18.0-19.0	184.8	6.4	297.5	1.76	81.28
19.0-20.0	148.9	5.5	302.9	1.49	82.77
20.0-21.0	120.5	4.6	307.5	1.26	84.03
21.0-22.0	98.5	4.0	311.5	1.08	85.11
22.0-23.0	81.7	3.4	314.9	0.94	86.05
23.0-24.0	68.7	3.0	317.9	0.82	86.87
24.0-25.0	58.7	2.7	320.6	0.73	87.60
25.0-26.0	50.9	2.4	323.0	0.66	88.26
26.0-27.0	44.4	2.2	325.2	0.59	88.85
27.0-28.0	39.0	2.0	327.2	0.54	89.39
28.0-29.0	34.4	1.8	329.0	0.49	89.88
29.0-30.0	30.7	1.7	330.6	0.45	90.33
30.0-31.0	27.5	1.5	332.1	0.42	90.75
31.0-32.0	25.0	1.4	333.6	0.39	91.14
32.0-33.0	22.8	1.3	334.9	0.37	91.51
33.0-34.0	21.0	1.3	336.2	0.35	91.86
34.0-35.0	19.5	1.2	337.4	0.33	92.19
35.0-36.0	18.2	1.2	338.5	0.32	92.50

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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	17.0	1.1	339.7	0.30	92.81
37.0-38.0	16.1	1.1	340.7	0.29	93.10
38.0-39.0	15.4	1.1	341.8	0.29	93.39
39.0-40.0	14.8	1.0	342.8	0.28	93.67
40.0-41.0	14.3	1.0	343.8	0.28	93.95
41.0-42.0	13.8	1.0	344.8	0.27	94.22
42.0-43.0	13.4	1.0	345.8	0.27	94.50
43.0-44.0	13.1	1.0	346.8	0.27	94.77
44.0-45.0	12.9	1.0	347.8	0.27	95.04
45.0-46.0	12.5	1.0	348.8	0.27	95.31
46.0-47.0	12.2	1.0	349.8	0.27	95.57
47.0-48.0	11.9	1.0	350.7	0.26	95.83
48.0-49.0	11.4	0.9	351.7	0.25	96.09
49.0-50.0	10.9	0.9	352.6	0.25	96.34
50.0-51.0	10.5	0.9	353.5	0.24	96.58
51.0-52.0	10.1	0.9	354.3	0.24	96.81
52.0-53.0	9.7	0.8	355.2	0.23	97.04
53.0-54.0	9.2	0.8	356.0	0.22	97.27
54.0-55.0	8.7	0.8	356.8	0.21	97.48
55.0-56.0	8.2	0.7	357.5	0.20	97.68
56.0-57.0	7.7	0.7	358.2	0.19	97.87
57.0-58.0	7.1	0.7	358.9	0.18	98.05
58.0-59.0	6.5	0.6	359.5	0.17	98.22
59.0-60.0	6.0	0.6	360.0	0.15	98.37
60.0-61.0	5.5	0.5	360.6	0.14	98.52
61.0-62.0	5.1	0.5	361.0	0.13	98.65
62.0-63.0	4.7	0.5	361.5	0.12	98.78
63.0-64.0	4.3	0.4	361.9	0.11	98.89
64.0-65.0	4.0	0.4	362.3	0.11	99.00
65.0-66.0	3.8	0.4	362.7	0.10	99.10
66.0-67.0	3.4	0.3	363.0	0.09	99.20
67.0-68.0	3.2	0.3	363.4	0.09	99.29
68.0-69.0	3.0	0.3	363.7	0.08	99.37
69.0-70.0	2.7	0.3	364.0	0.08	99.45
70.0-71.0	2.5	0.3	364.2	0.07	99.52
71.0-72.0	2.3	0.2	364.5	0.06	99.58

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Test Lab:
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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	2819.5	2819.5								
G1.0	2853.1	2738.9								
G2.0	2841.7	2608.7								
G3.0	2782.0	2437.1								
G4.0	2675.6	2231.2								
G5.0	2520.1	2004.4								
G6.0	2327.6	1770.1								
G7.0	2104.9	1534.0								
G8.0	1870.0	1310.6								
G9.0	1636.0	1102.6								
G10.0	1405.5	914.2								
G11.0	1185.5	744.9								
G12.0	986.6	600.3								
G13.0	806.8	479.2								
G14.0	648.7	383.9								
G15.0	512.4	309.4								
G16.0	398.3	251.3								
G17.0	307.3	204.7								
G18.0	241.8	167.9								
G19.0	192.8	136.7								
G20.0	155.4	110.6								
G21.0	126.3	89.5								
G22.0	103.9	74.2								
G23.0	85.8	62.9								
G24.0	72.0	53.9								
G25.0	62.2	46.6								
G26.0	54.0	40.7								
G27.0	47.0	36.0								
G28.0	40.8	31.9								
G29.0	36.0	28.8								
G30.0	31.9	26.0								
G31.0	28.4	23.8								
G32.0	25.8	21.7								
G33.0	23.6	20.1								
G34.0	21.9	18.5								
G35.0	20.0	17.5								
G36.0	18.6	16.5								

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	17.3	15.8								
G38.0	16.3	15.3								
G39.0	15.5	14.6								
G40.0	14.9	14.1								
G41.0	14.1	13.9								
G42.0	13.8	13.4								
G43.0	13.3	13.2								
G44.0	13.0	13.0								
G45.0	12.9	12.7								
G46.0	12.7	11.9								
G47.0	12.7	11.7								
G48.0	12.2	10.9								
G49.0	11.8	10.6								
G50.0	11.3	9.9								
G51.0	10.8	9.8								
G52.0	10.4	9.3								
G53.0	10.2	8.8								
G54.0	9.8	8.2								
G55.0	9.3	7.4								
G56.0	8.9	6.9								
G57.0	8.3	6.5								
G58.0	7.7	6.0								
G59.0	6.9	5.5								
G60.0	6.6	5.0								
G61.0	6.1	4.5								
G62.0	5.5	4.3								
G63.0	5.1	3.8								
G64.0	4.7	3.5								
G65.0	4.7	3.2								
G66.0	4.2	2.9								
G67.0	4.1	2.6								
G68.0	3.7	2.5								
G69.0	3.5	2.2								
G70.0	3.2	2.0								
G71.0	3.0	1.9								
G72.0	2.6	1.6								
G73.0	2.4	1.4								

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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: