

Report No.: 52.09531 Intero Recessed
Downlight

Test Time: 2024-10-13 17:32

Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.183 A

Power Factor: 0.984

Voltage: 232.0 V

Power: 42.00 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4465.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H41.5

Vertical Diffuse Angle(50%): V41.5

Luminaire Efficacy Rating (LER): 106

Max. Intensity: 8242.8 cd

Total Rated Lamp Lumens: 4465.8 lm

Efficiency: 100%

Upward Ratio: 0%

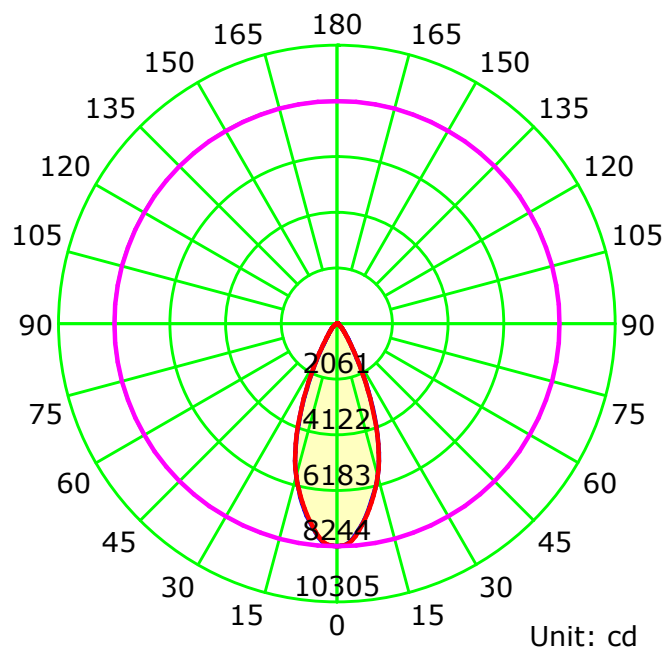
Central Intensity: 8242.8 cd

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

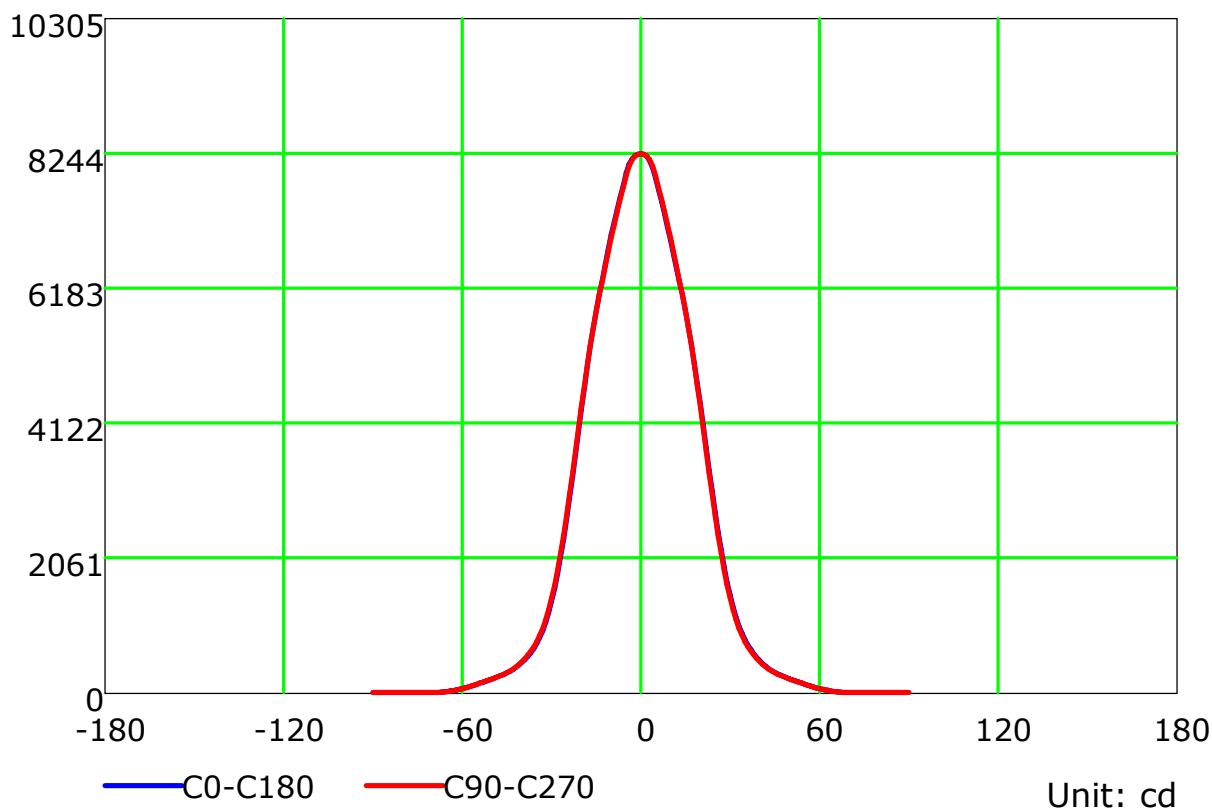
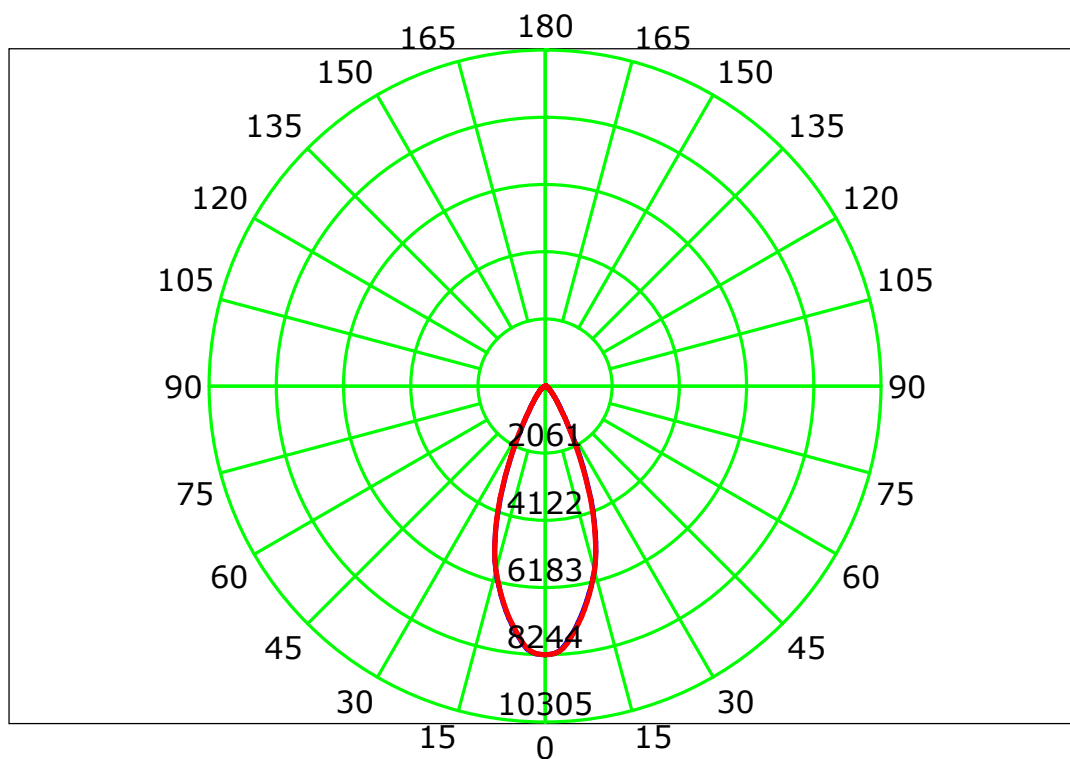
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

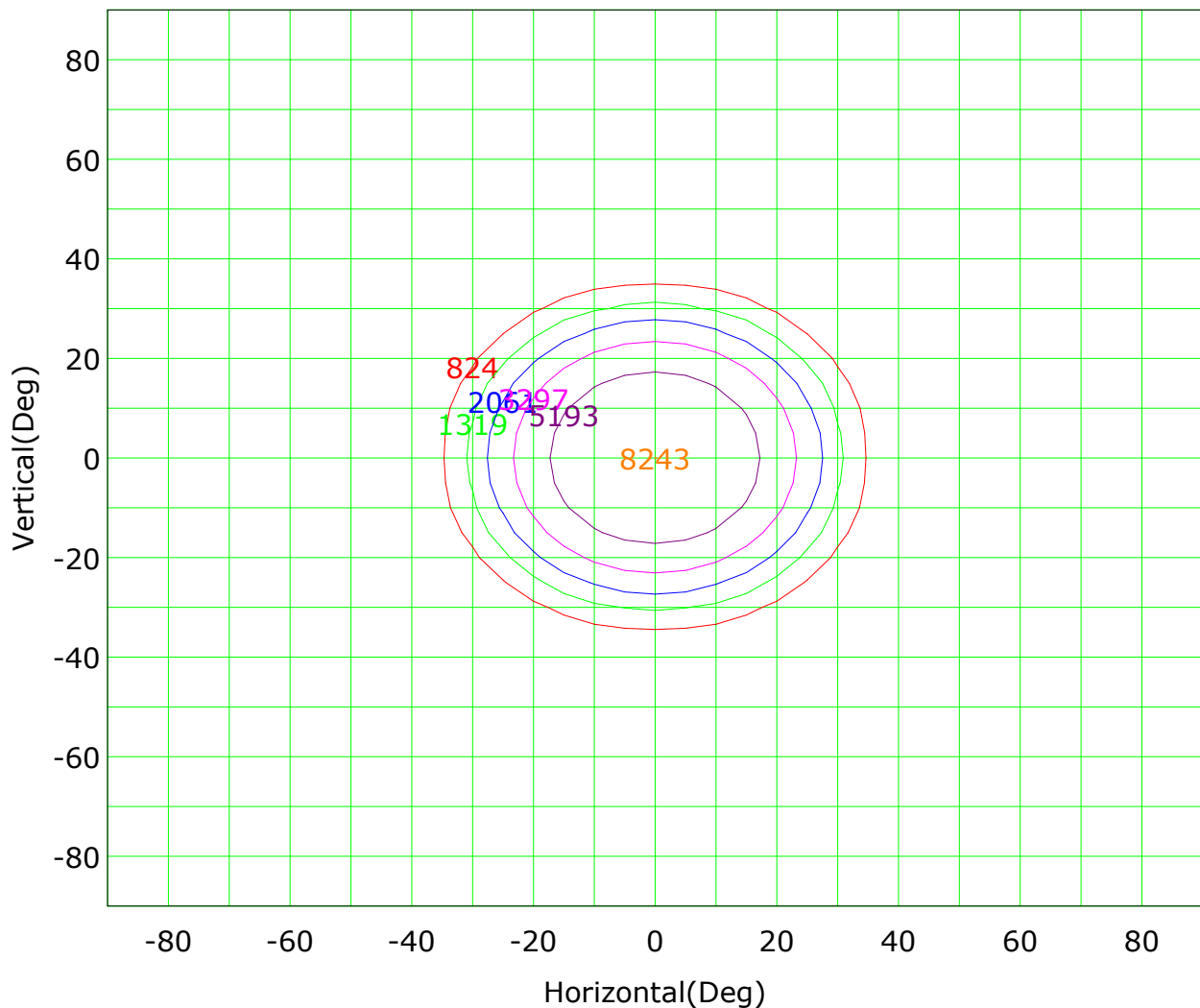
Luminous Intensity Distribution Curve



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%): 8243 cd

(10%): 824 cd	(16%): 1319 cd
(25%): 2061 cd	(40%): 3297 cd
(63%): 5193 cd	(100%): 8243 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

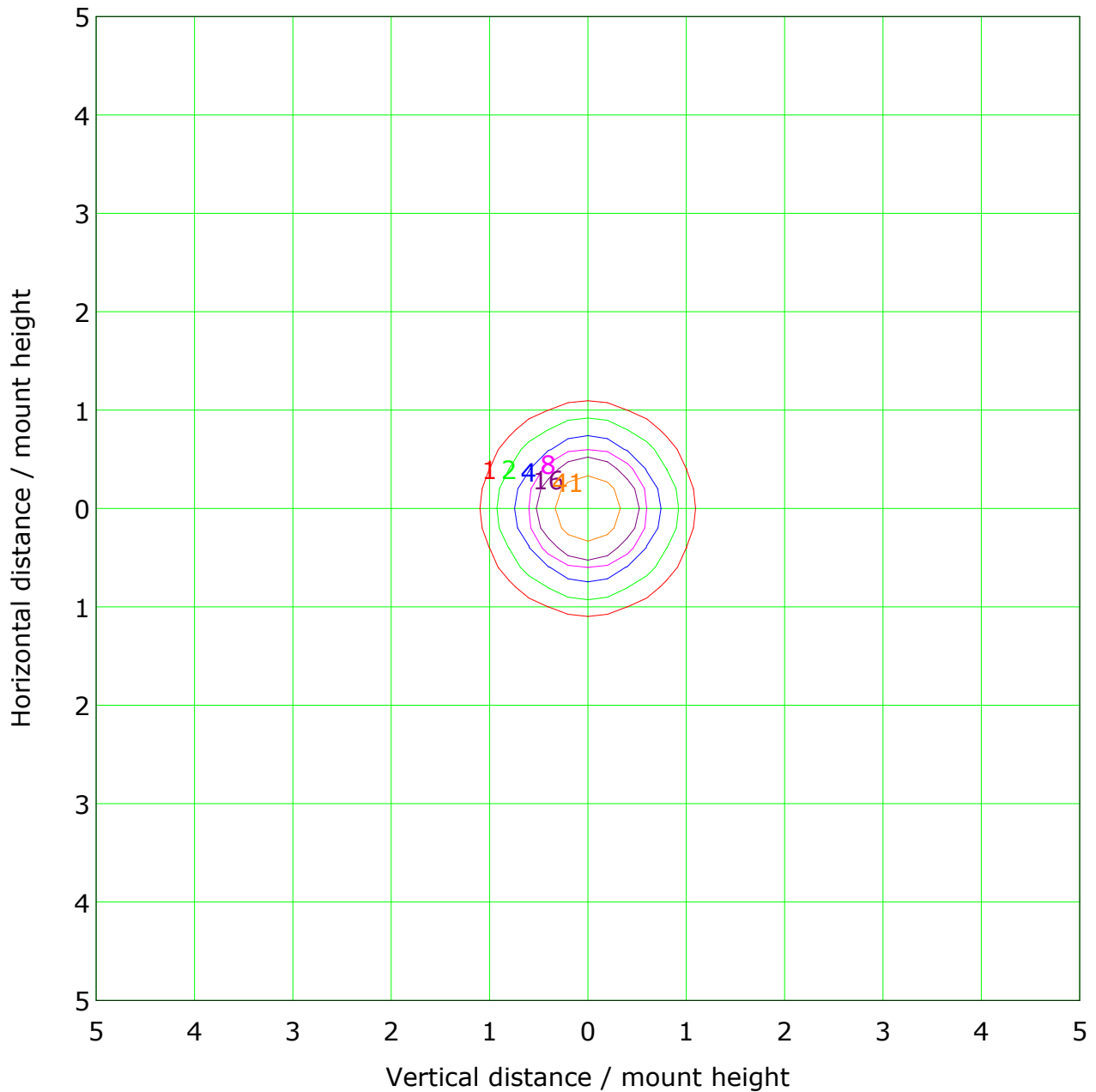
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

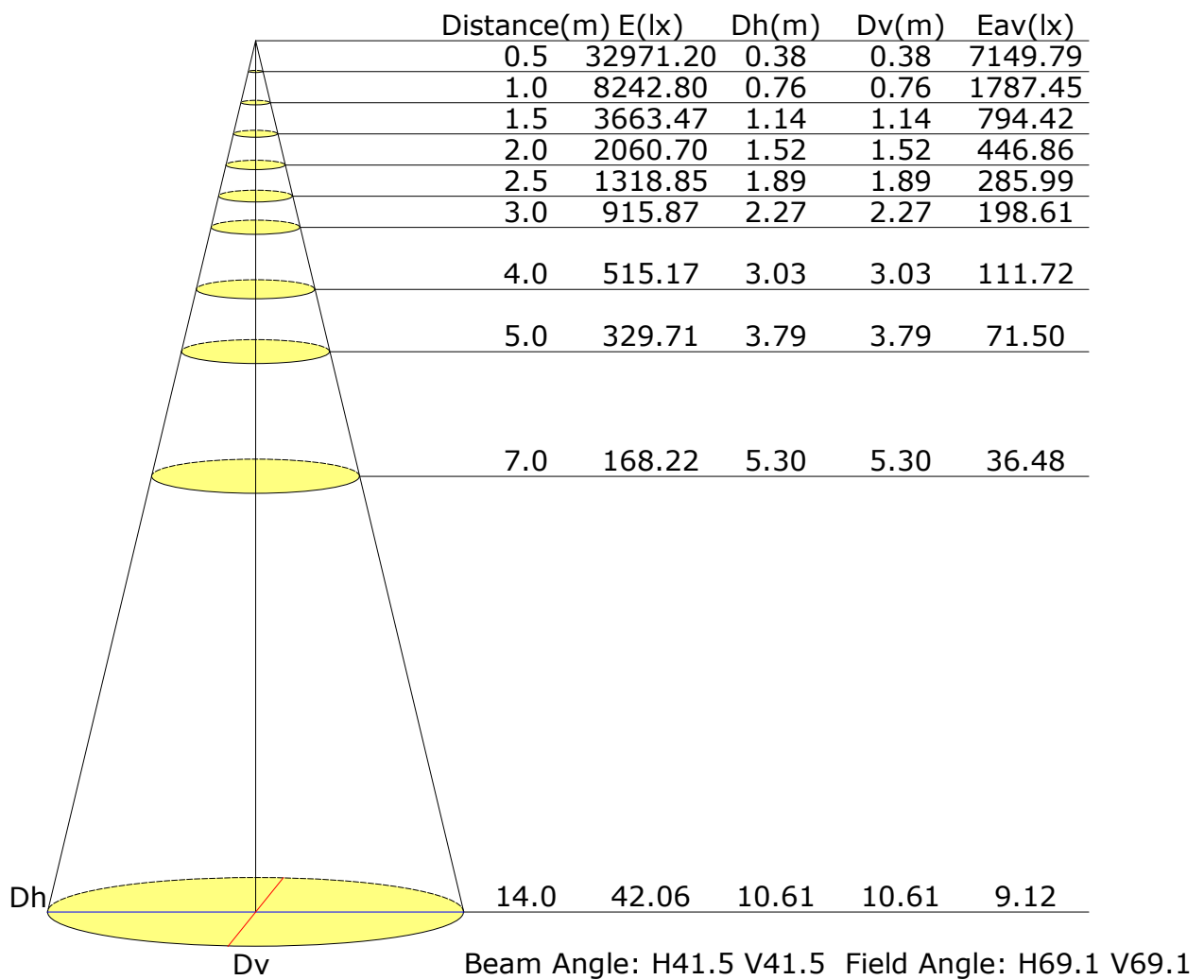


Mounting Height: 10m		Max Lux(100%): 82 lx	
(1%):	1 lx	(2%):	2 lx
(5%):	4 lx	(10%):	8 lx
(20%):	16 lx	(50%):	41 lx
(100%):	82 lx		

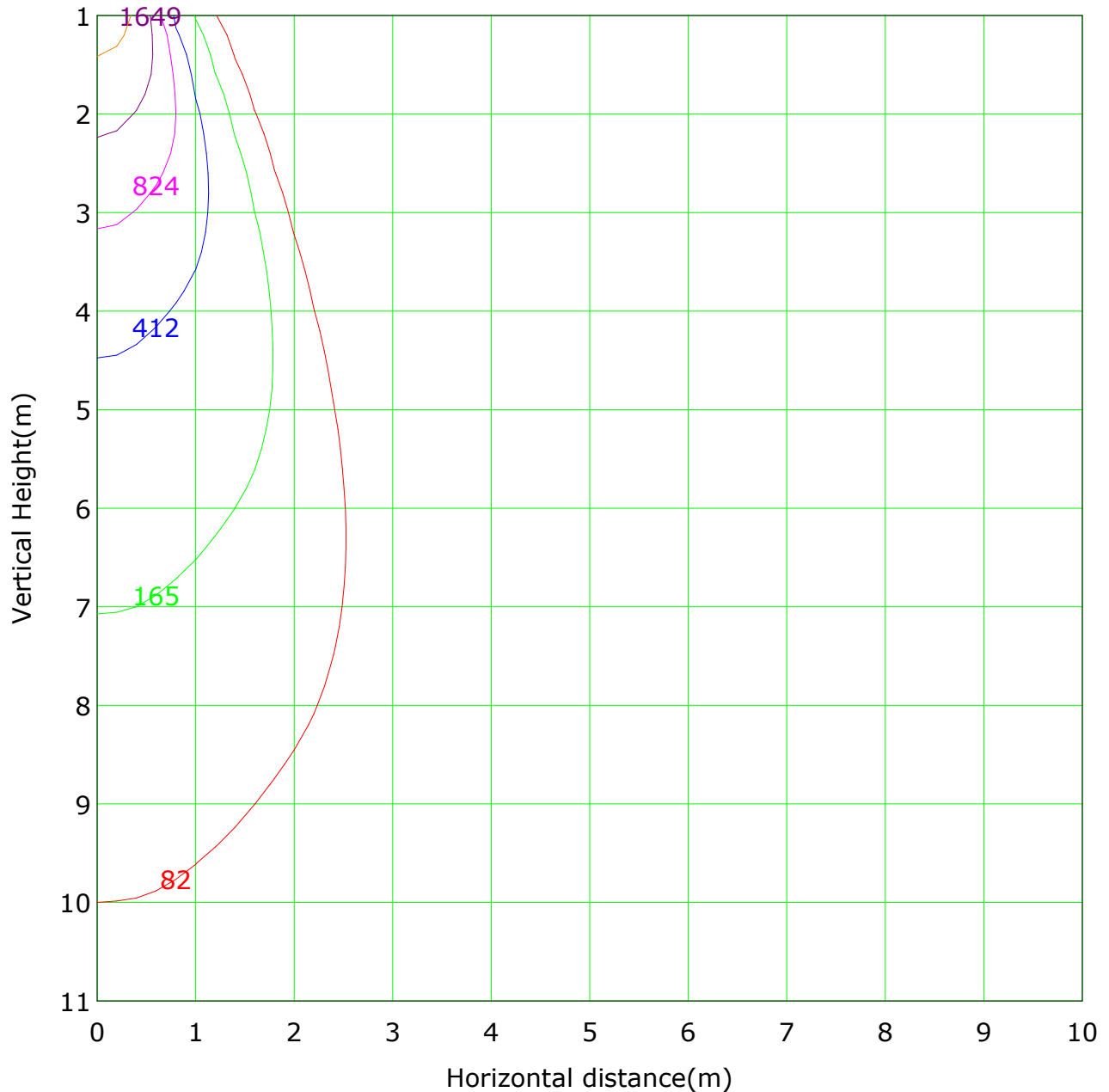
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



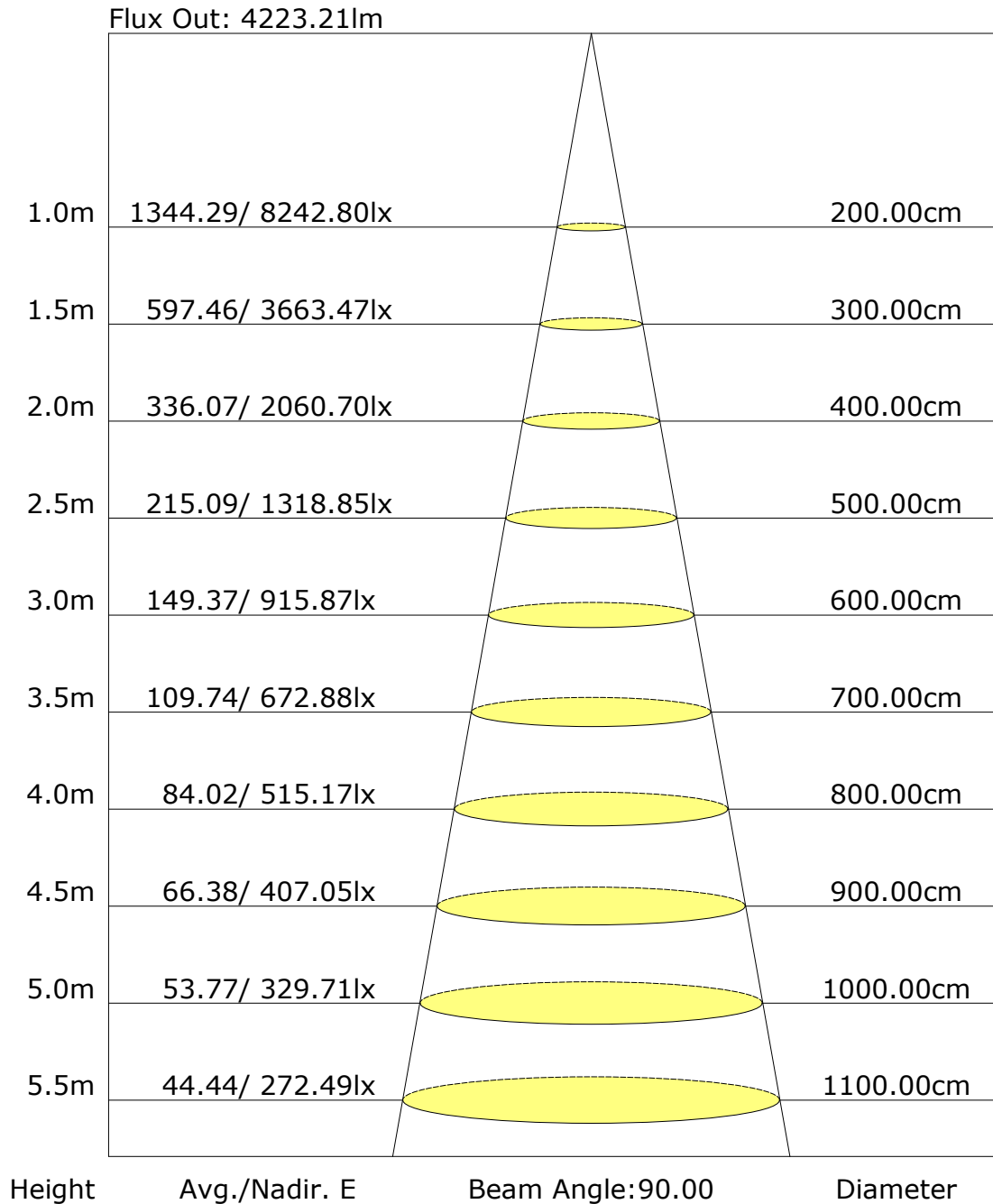
Lowest(m): 1m Highest(m): 11 Max Lux: 8243

(1%): 82 lx	(2%): 165 lx
(5%): 412 lx	(10%): 824 lx
(20%): 1649 lx	(50%): 4121 lx
(100%): 8243 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	8236.6	7.9	7.9	0.18	0.18
1.0-2.0	8218.8	23.6	31.5	0.53	0.70
2.0-3.0	8178.6	39.1	70.6	0.88	1.58
3.0-4.0	8099.4	54.2	124.8	1.21	2.79
4.0-5.0	7976.0	68.6	193.4	1.54	4.33
5.0-6.0	7812.4	82.1	275.6	1.84	6.17
6.0-7.0	7630.1	94.7	370.3	2.12	8.29
7.0-8.0	7445.6	106.6	476.8	2.39	10.68
8.0-9.0	7256.1	117.6	594.5	2.63	13.31
9.0-10.0	7056.6	127.7	722.2	2.86	16.17
10.0-11.0	6845.9	136.8	859.0	3.06	19.23
11.0-12.0	6630.9	145.0	1004.0	3.25	22.48
12.0-13.0	6412.7	152.2	1156.2	3.41	25.89
13.0-14.0	6192.4	158.5	1314.7	3.55	29.44
14.0-15.0	5965.8	163.8	1478.5	3.67	33.11
15.0-16.0	5721.8	167.7	1646.2	3.75	36.86
16.0-17.0	5454.7	169.9	1816.1	3.80	40.67
17.0-18.0	5166.1	170.4	1986.4	3.81	44.48
18.0-19.0	4859.4	169.1	2155.5	3.79	48.27
19.0-20.0	4537.5	166.1	2321.6	3.72	51.99
20.0-21.0	4205.6	161.5	2483.1	3.62	55.60
21.0-22.0	3867.7	155.4	2638.6	3.48	59.08
22.0-23.0	3528.9	148.1	2786.7	3.32	62.40
23.0-24.0	3194.5	139.7	2926.3	3.13	65.53
24.0-25.0	2869.5	130.5	3056.8	2.92	68.45
25.0-26.0	2559.0	120.8	3177.6	2.71	71.15
26.0-27.0	2269.2	111.0	3288.7	2.49	73.64
27.0-28.0	2002.4	101.4	3390.1	2.27	75.91
28.0-29.0	1759.9	92.1	3482.2	2.06	77.97
29.0-30.0	1545.5	83.5	3565.6	1.87	79.84
30.0-31.0	1357.3	75.5	3641.2	1.69	81.53
31.0-32.0	1192.7	68.3	3709.5	1.53	83.06
32.0-33.0	1051.5	62.0	3771.5	1.39	84.45
33.0-34.0	931.2	56.4	3827.8	1.26	85.71
34.0-35.0	829.3	51.5	3879.3	1.15	86.87
35.0-36.0	741.8	47.2	3926.6	1.06	87.93

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: 3.328 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	667.3	43.5	3970.1	0.97	88.90
37.0-38.0	603.1	40.3	4010.4	0.90	89.80
38.0-39.0	547.0	37.3	4047.7	0.84	90.64
39.0-40.0	497.4	34.7	4082.4	0.78	91.41
40.0-41.0	452.2	32.2	4114.6	0.72	92.14
41.0-42.0	412.6	30.0	4144.6	0.67	92.81
42.0-43.0	377.7	28.0	4172.6	0.63	93.43
43.0-44.0	345.9	26.1	4198.7	0.58	94.02
44.0-45.0	319.1	24.5	4223.2	0.55	94.57
45.0-46.0	295.5	23.1	4246.3	0.52	95.09
46.0-47.0	273.9	21.8	4268.1	0.49	95.57
47.0-48.0	255.3	20.6	4288.7	0.46	96.04
48.0-49.0	237.2	19.5	4308.2	0.44	96.47
49.0-50.0	218.8	18.2	4326.5	0.41	96.88
50.0-51.0	202.3	17.1	4343.6	0.38	97.26
51.0-52.0	187.0	16.0	4359.6	0.36	97.62
52.0-53.0	170.5	14.8	4374.5	0.33	97.95
53.0-54.0	154.9	13.7	4388.1	0.31	98.26
54.0-55.0	139.9	12.5	4400.6	0.28	98.54
55.0-56.0	124.0	11.2	4411.8	0.25	98.79
56.0-57.0	108.5	9.9	4421.7	0.22	99.01
57.0-58.0	93.8	8.7	4430.4	0.19	99.21
58.0-59.0	79.8	7.5	4437.9	0.17	99.37
59.0-60.0	67.3	6.4	4444.2	0.14	99.52
60.0-61.0	56.4	5.4	4449.6	0.12	99.64
61.0-62.0	46.1	4.4	4454.1	0.10	99.74
62.0-63.0	37.4	3.6	4457.7	0.08	99.82
63.0-64.0	29.0	2.8	4460.5	0.06	99.88
64.0-65.0	21.5	2.1	4462.7	0.05	99.93
65.0-66.0	14.6	1.5	4464.1	0.03	99.96
66.0-67.0	9.0	0.9	4465.0	0.02	99.98
67.0-68.0	5.6	0.6	4465.6	0.01	100.00
68.0-69.0	1.9	0.2	4465.8	0.00	100.00
69.0-70.0	0.0	0.0	4465.8	0.00	100.00
70.0-71.0	0.0	0.0	4465.8	0.00	100.00
71.0-72.0	0.0	0.0	4465.8	0.00	100.00

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	8242.8	8242.8								
G1.0	8230.3	8230.3								
G2.0	8201.7	8212.9								
G3.0	8138.1	8161.8								
G4.0	8019.7	8078.3								
G5.0	7866.3	7939.9								
G6.0	7690.5	7752.9								
G7.0	7508.5	7568.4								
G8.0	7320.3	7385.1								
G9.0	7120.8	7198.1								
G10.0	6912.6	6994.9								
G11.0	6699.5	6776.8								
G12.0	6493.8	6553.6								
G13.0	6285.6	6318.0								
G14.0	6074.9	6091.1								
G15.0	5848.0	5849.3								
G16.0	5594.9	5594.9								
G17.0	5318.2	5310.7								
G18.0	5030.2	5005.3								
G19.0	4728.5	4673.7								
G20.0	4411.9	4335.8								
G21.0	4081.5	3993.0								
G22.0	3748.7	3647.7								
G23.0	3409.6	3309.8								
G24.0	3082.9	2975.7								
G25.0	2765.1	2654.1								
G26.0	2464.6	2352.4								
G27.0	2184.1	2075.7								
G28.0	1927.3	1822.6								
G29.0	1692.9	1596.9								
G30.0	1491.0	1401.2								
G31.0	1310.2	1226.7								
G32.0	1156.9	1077.1								
G33.0	1021.0	951.2								
G34.0	908.8	844.0								
G35.0	810.3	754.2								
G36.0	726.8	675.7								

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	657.0	609.6								
G38.0	592.2	553.5								
G39.0	537.3	504.9								
G40.0	486.2	461.3								
G41.0	438.8	422.6								
G42.0	401.4	387.7								
G43.0	366.5	355.3								
G44.0	335.4	326.6								
G45.0	310.4	304.2								
G46.0	285.5	281.7								
G47.0	265.5	263.0								
G48.0	246.8	245.6								
G49.0	229.4	226.9								
G50.0	209.4	209.4								
G51.0	195.7	194.5								
G52.0	179.5	178.3								
G53.0	163.3	160.8								
G54.0	148.4	147.1								
G55.0	132.1	132.1								
G56.0	115.9	115.9								
G57.0	102.2	99.7								
G58.0	87.3	86.0								
G59.0	72.3	73.6								
G60.0	63.6	59.8								
G61.0	52.4	49.9								
G62.0	42.4	39.9								
G63.0	34.9	32.4								
G64.0	23.7	24.9								
G65.0	18.7	18.7								
G66.0	10.0	11.2								
G67.0	8.7	6.2								
G68.0	3.7	3.7								
G69.0	0.0	0.0								
G70.0	0.0	0.0								
G71.0	0.0	0.0								
G72.0	0.0	0.0								
G73.0	0.0	0.0								

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:

Unit: cd

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 m
Humidity:
Inspector: