

Report No.: 52.09531 Intero Recessed
Downlight

Test Time: 2024-10-13 17:35

Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.183 A

Power Factor: 0.984

Voltage: 232.0 V

Power: 41.90 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4405.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H49.8

Vertical Diffuse Angle(50%): V49.8

Luminaire Efficacy Rating (LER): 105

Max. Intensity: 5990.13 cd

Total Rated Lamp Lumens: 4405.9 lm

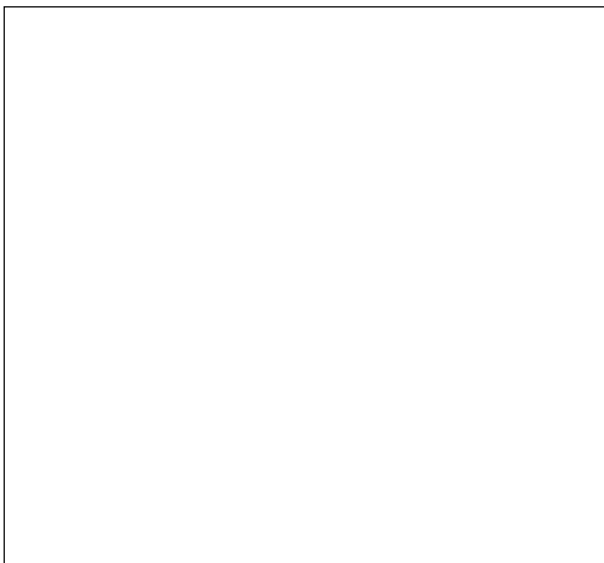
Efficiency: 100%

Upward Ratio: 0%

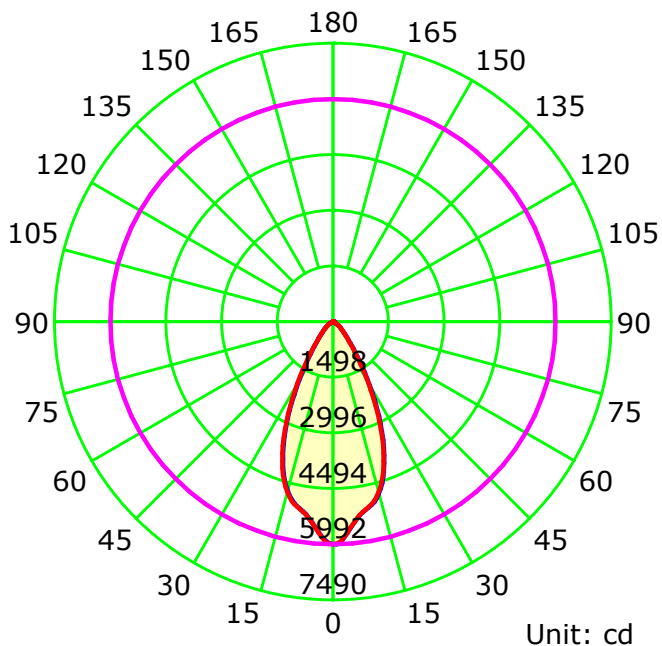
Central Intensity: 5990.12 cd

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

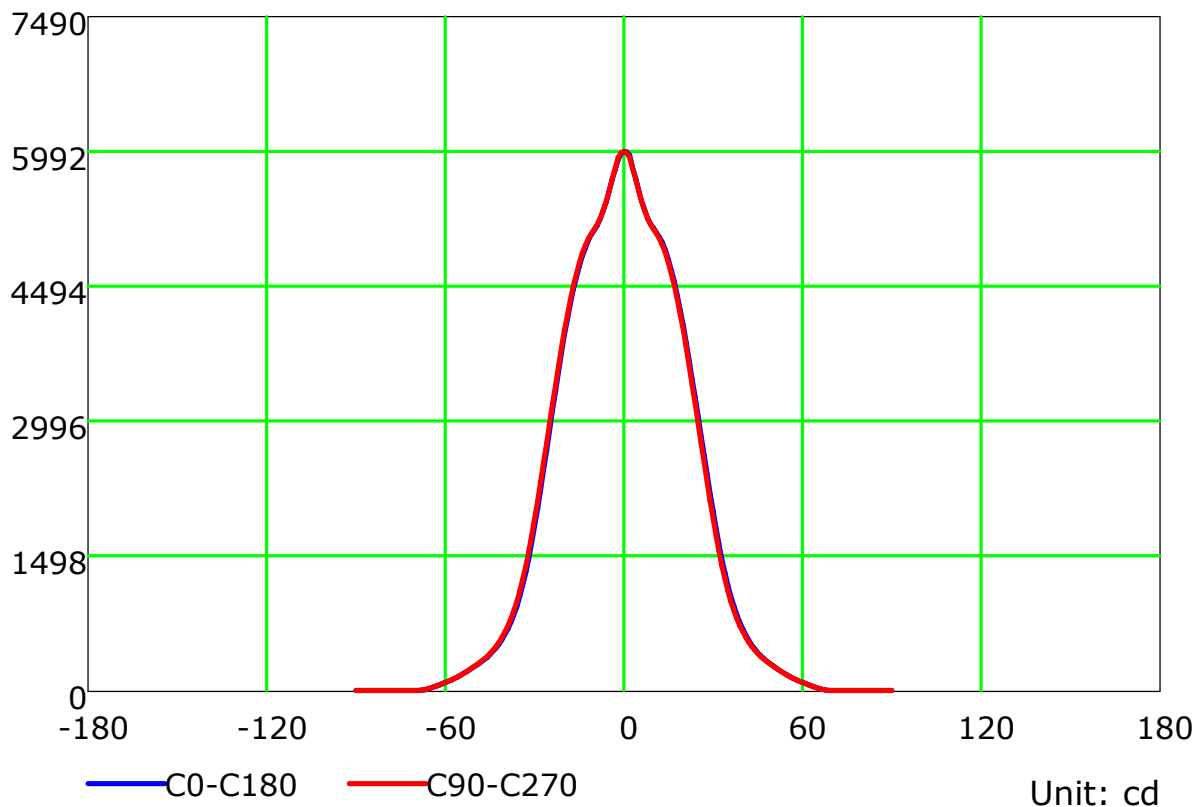
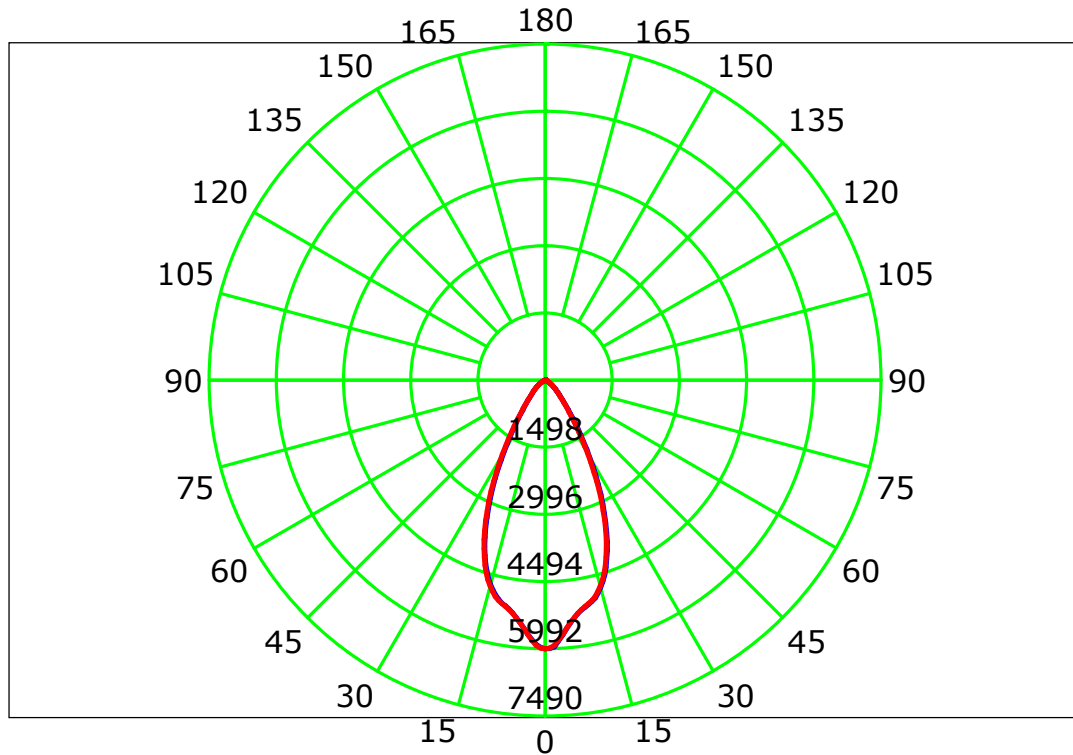
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

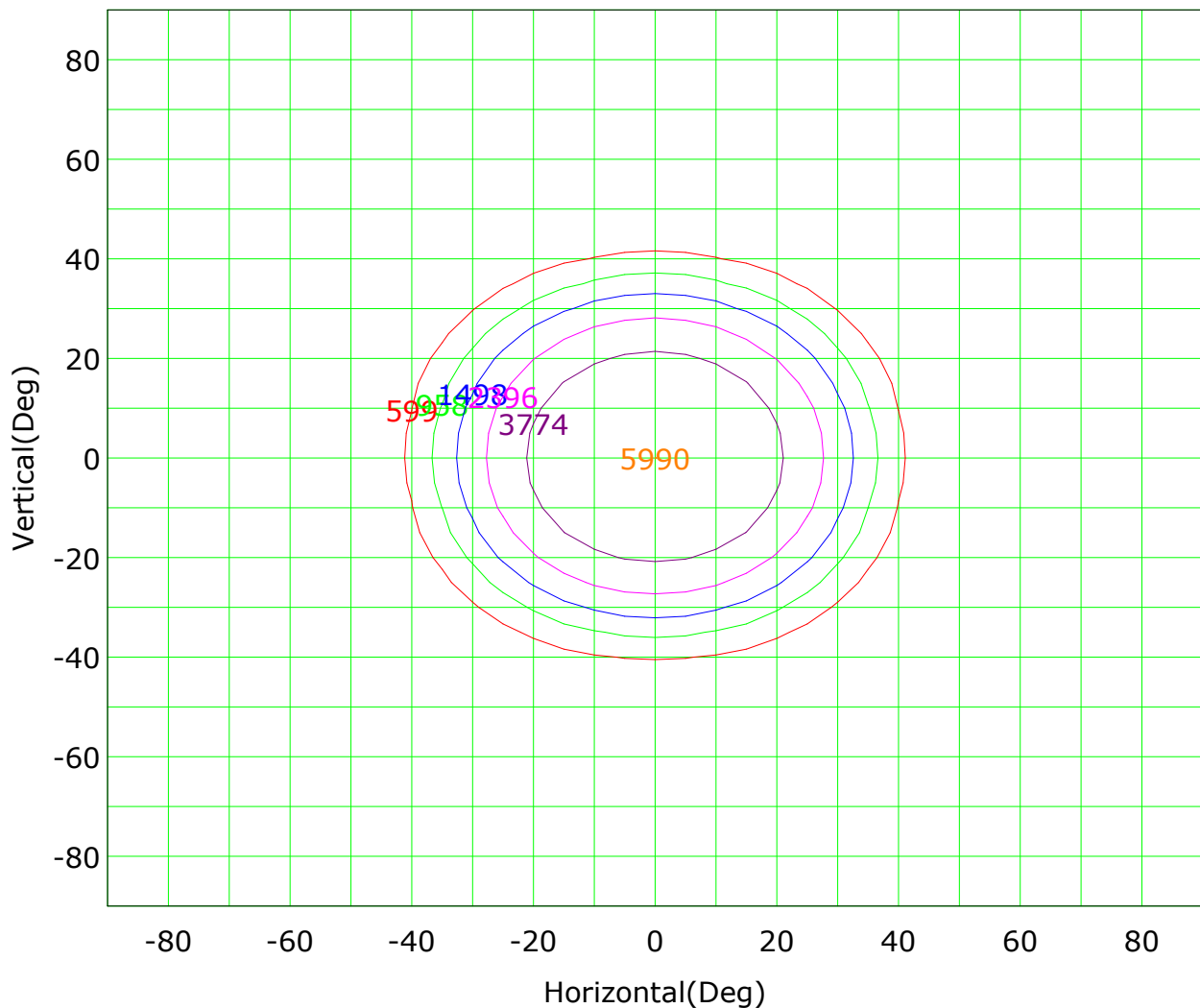
Luminous Intensity Distribution Curve



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)



I_{max} (100%): 5990 cd

(10%): 599 cd	(16%): 958 cd
(25%): 1498 cd	(40%): 2396 cd
(63%): 3774 cd	(100%): 5990 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

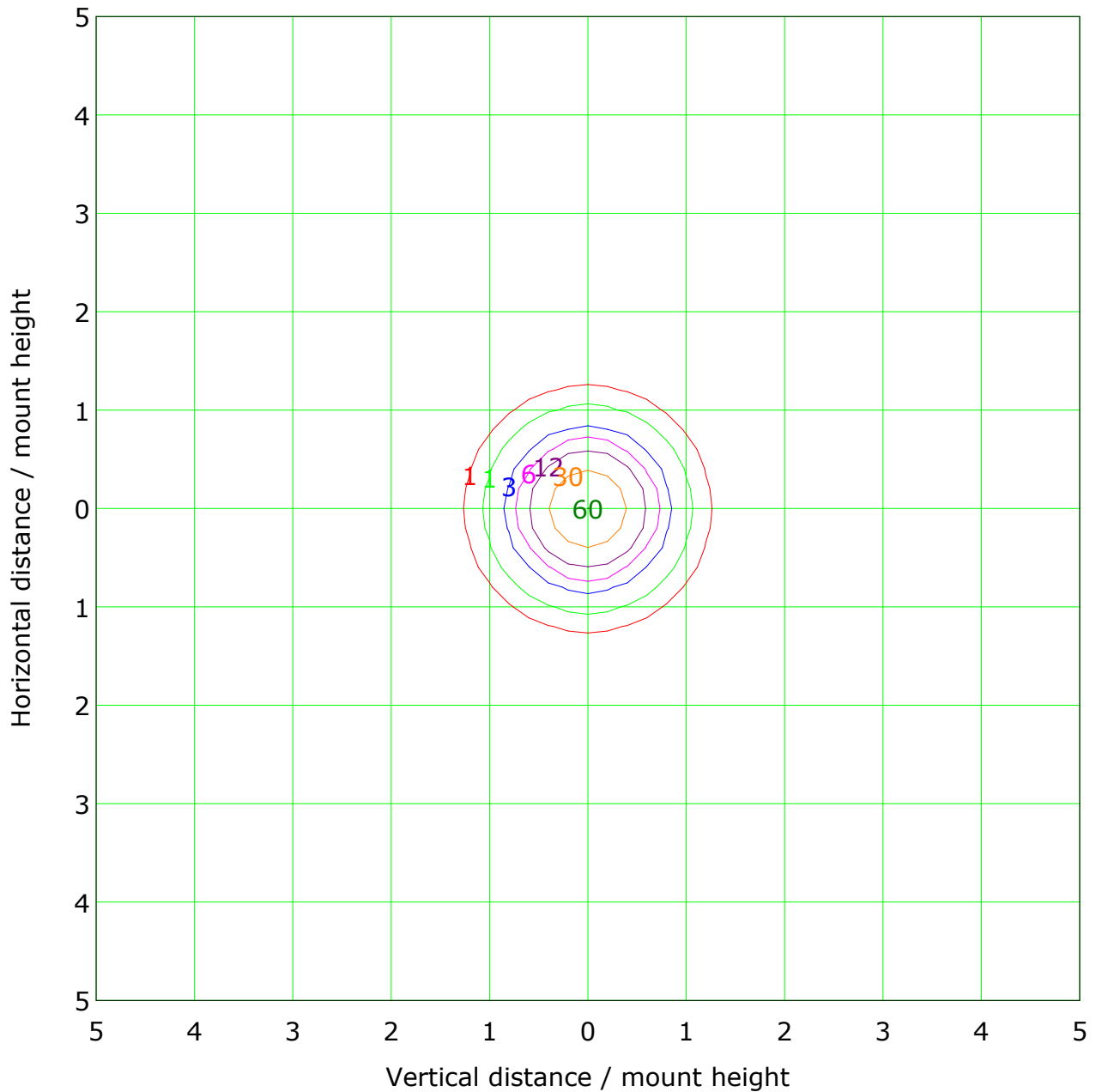
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

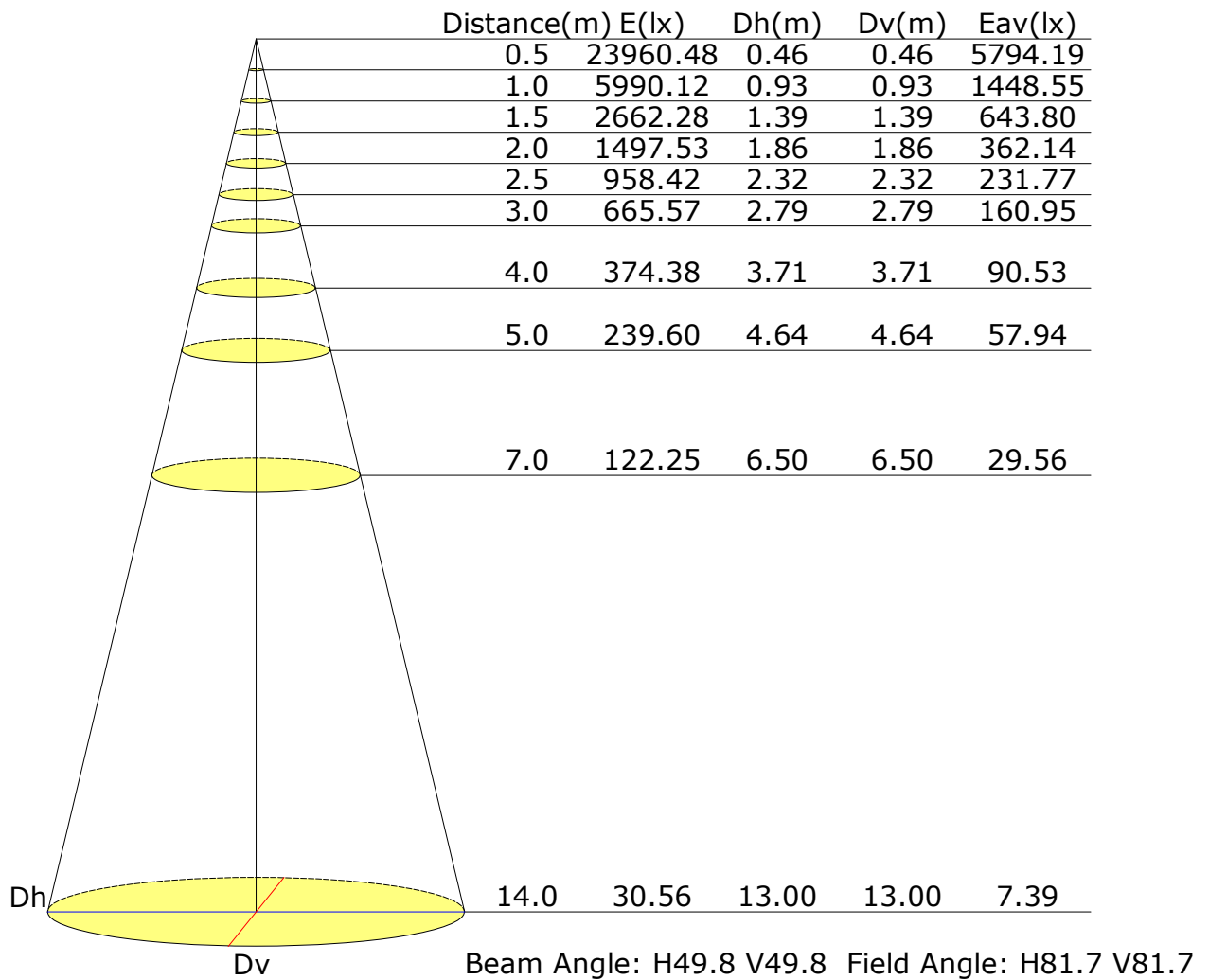


Mounting Height: 10m		Max Lux(100%): 60 lx	
(1%):	1 lx	(2%):	1 lx
(5%):	3 lx	(10%):	6 lx
(20%):	12 lx	(50%):	30 lx
(100%):	60 lx		

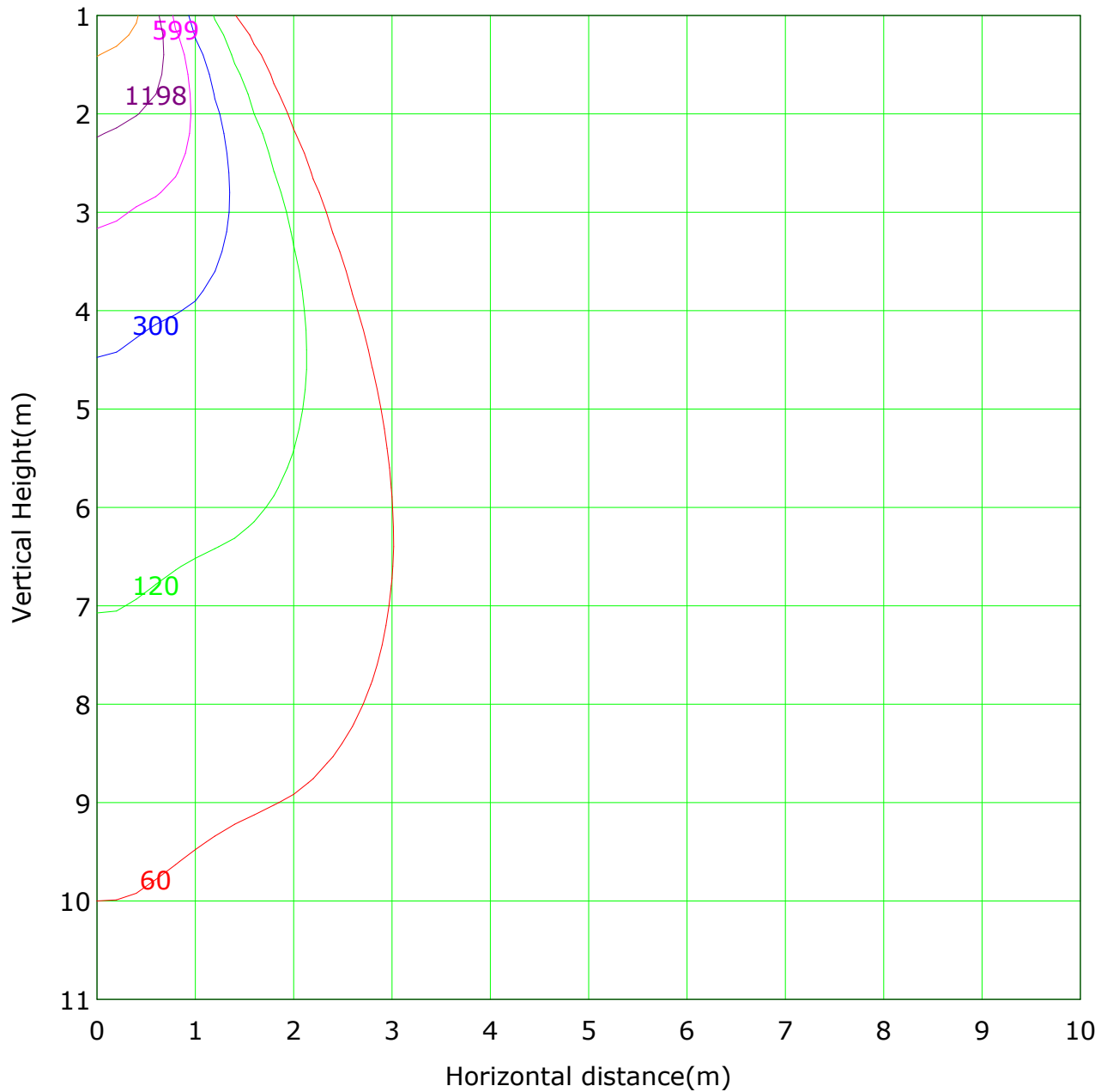
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

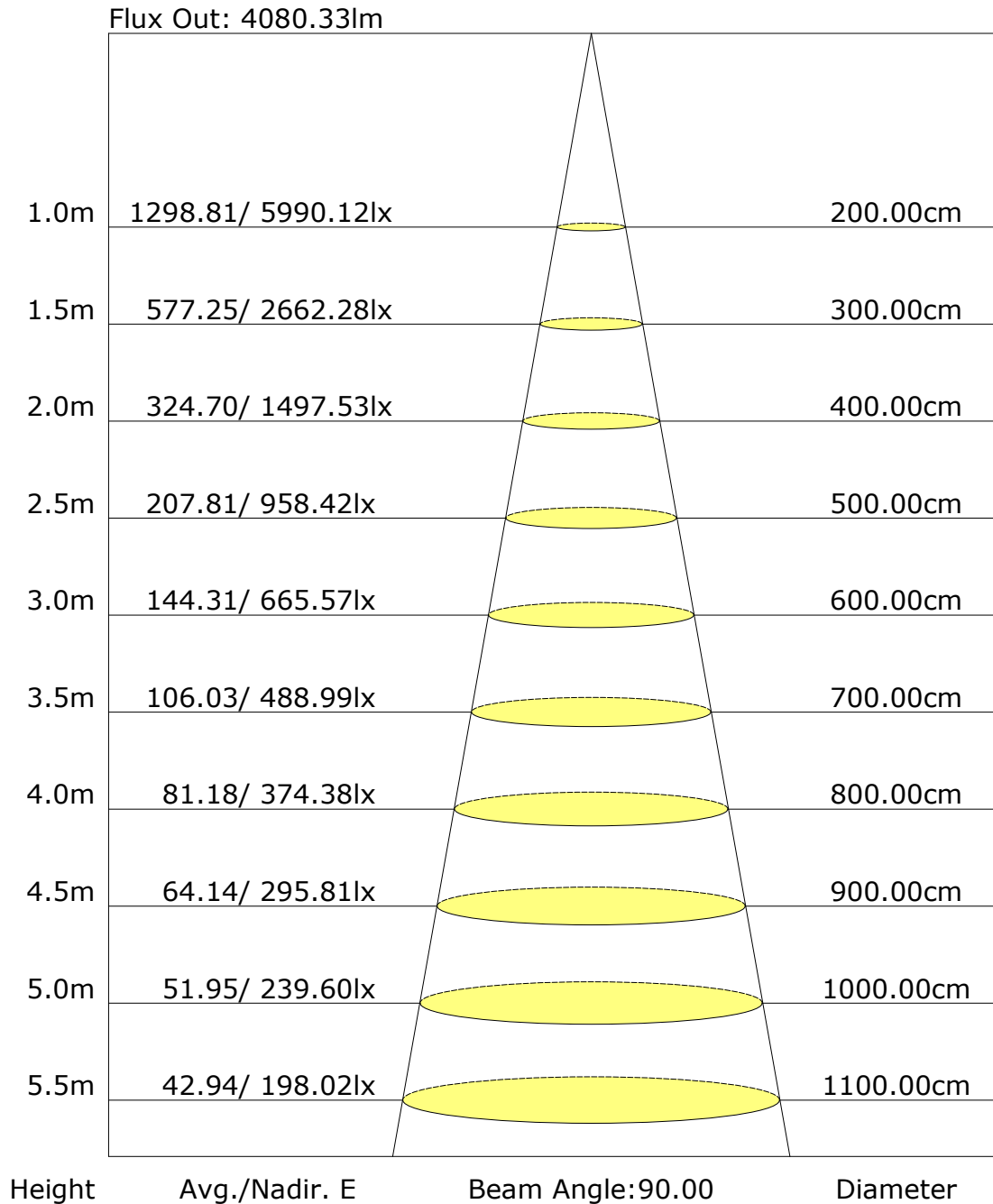


Lowest(m): 1m Highest(m): 11 Max Lux: 5990
— (1%): 60 lx — (2%): 120 lx
— (5%): 300 lx — (10%): 599 lx
— (20%): 1198 lx — (50%): 2995 lx
— (100%): 5990 lx

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	5982.0	5.7	5.7	0.13	0.13
1.0-2.0	5948.4	17.1	22.8	0.39	0.52
2.0-3.0	5863.0	28.0	50.8	0.64	1.15
3.0-4.0	5743.3	38.4	89.3	0.87	2.03
4.0-5.0	5619.2	48.3	137.6	1.10	3.12
5.0-6.0	5495.8	57.8	195.4	1.31	4.44
6.0-7.0	5385.8	66.9	262.3	1.52	5.95
7.0-8.0	5291.1	75.7	338.0	1.72	7.67
8.0-9.0	5213.5	84.5	422.5	1.92	9.59
9.0-10.0	5152.7	93.3	515.8	2.12	11.71
10.0-11.0	5101.6	102.0	617.7	2.31	14.02
11.0-12.0	5049.2	110.4	728.1	2.51	16.53
12.0-13.0	4985.0	118.3	846.4	2.69	19.21
13.0-14.0	4904.9	125.6	972.0	2.85	22.06
14.0-15.0	4807.4	132.0	1104.0	3.00	25.06
15.0-16.0	4693.6	137.5	1241.5	3.12	28.18
16.0-17.0	4565.8	142.2	1383.7	3.23	31.41
17.0-18.0	4422.5	145.8	1529.6	3.31	34.72
18.0-19.0	4262.6	148.3	1677.9	3.37	38.08
19.0-20.0	4089.9	149.7	1827.6	3.40	41.48
20.0-21.0	3904.2	149.9	1977.5	3.40	44.88
21.0-22.0	3707.8	149.0	2126.6	3.38	48.27
22.0-23.0	3504.0	147.0	2273.6	3.34	51.60
23.0-24.0	3293.3	144.0	2417.6	3.27	54.87
24.0-25.0	3079.5	140.0	2557.7	3.18	58.05
25.0-26.0	2862.3	135.1	2692.8	3.07	61.12
26.0-27.0	2643.5	129.3	2822.1	2.94	64.05
27.0-28.0	2427.5	122.9	2945.1	2.79	66.84
28.0-29.0	2216.2	116.0	3061.0	2.63	69.48
29.0-30.0	2012.1	108.7	3169.7	2.47	71.94
30.0-31.0	1818.2	101.2	3270.9	2.30	74.24
31.0-32.0	1636.5	93.8	3364.6	2.13	76.37
32.0-33.0	1467.6	86.5	3451.1	1.96	78.33
33.0-34.0	1313.6	79.5	3530.6	1.80	80.13
34.0-35.0	1174.6	73.0	3603.6	1.66	81.79
35.0-36.0	1050.3	66.9	3670.5	1.52	83.31

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	940.3	61.3	3731.8	1.39	84.70
37.0-38.0	844.0	56.3	3788.1	1.28	85.98
38.0-39.0	760.8	51.9	3840.1	1.18	87.16
39.0-40.0	687.2	47.9	3888.0	1.09	88.25
40.0-41.0	622.4	44.3	3932.3	1.01	89.25
41.0-42.0	565.7	41.1	3973.4	0.93	90.19
42.0-43.0	515.2	38.2	4011.6	0.87	91.05
43.0-44.0	470.9	35.5	4047.2	0.81	91.86
44.0-45.0	431.6	33.2	4080.3	0.75	92.61
45.0-46.0	395.8	31.0	4111.3	0.70	93.31
46.0-47.0	364.6	29.0	4140.3	0.66	93.97
47.0-48.0	337.5	27.3	4167.6	0.62	94.59
48.0-49.0	312.0	25.6	4193.2	0.58	95.17
49.0-50.0	287.0	23.9	4217.1	0.54	95.72
50.0-51.0	264.0	22.3	4239.5	0.51	96.22
51.0-52.0	242.5	20.8	4260.3	0.47	96.70
52.0-53.0	221.3	19.3	4279.5	0.44	97.13
53.0-54.0	200.7	17.7	4297.2	0.40	97.53
54.0-55.0	180.4	16.1	4313.3	0.37	97.90
55.0-56.0	161.1	14.6	4327.9	0.33	98.23
56.0-57.0	142.1	13.0	4340.9	0.29	98.53
57.0-58.0	125.0	11.6	4352.5	0.26	98.79
58.0-59.0	111.0	10.4	4362.8	0.24	99.02
59.0-60.0	97.6	9.2	4372.1	0.21	99.23
60.0-61.0	84.8	8.1	4380.1	0.18	99.42
61.0-62.0	71.7	6.9	4387.0	0.16	99.57
62.0-63.0	58.9	5.7	4392.8	0.13	99.70
63.0-64.0	47.1	4.6	4397.4	0.10	99.81
64.0-65.0	34.9	3.5	4400.9	0.08	99.89
65.0-66.0	23.4	2.3	4403.2	0.05	99.94
66.0-67.0	14.7	1.5	4404.7	0.03	99.97
67.0-68.0	8.1	0.8	4405.5	0.02	99.99
68.0-69.0	3.1	0.3	4405.8	0.01	100.00
69.0-70.0	0.6	0.1	4405.9	0.00	100.00
70.0-71.0	0.0	0.0	4405.9	0.00	100.00
71.0-72.0	0.0	0.0	4405.9	0.00	100.00

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:

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	5990.1	5990.1								
G1.0	5985.1	5962.7								
G2.0	5947.7	5897.9								
G3.0	5815.6	5790.7								
G4.0	5694.7	5672.2								
G5.0	5563.8	5546.3								
G6.0	5442.8	5430.4								
G7.0	5339.4	5330.6								
G8.0	5253.4	5240.9								
G9.0	5188.5	5171.1								
G10.0	5138.7	5112.5								
G11.0	5088.8	5066.4								
G12.0	5040.2	5001.5								
G13.0	4980.3	4918.0								
G14.0	4894.3	4827.0								
G15.0	4789.6	4718.5								
G16.0	4672.4	4593.9								
G17.0	4539.0	4458.0								
G18.0	4389.4	4303.4								
G19.0	4226.1	4131.4								
G20.0	4051.6	3950.6								
G21.0	3862.1	3752.4								
G22.0	3668.9	3547.9								
G23.0	3463.2	3336.0								
G24.0	3257.5	3116.6								
G25.0	3050.5	2893.5								
G26.0	2833.6	2671.6								
G27.0	2615.5	2453.4								
G28.0	2404.8	2236.5								
G29.0	2195.3	2028.3								
G30.0	1993.4	1831.3								
G31.0	1803.9	1644.3								
G32.0	1625.6	1472.3								
G33.0	1456.1	1316.5								
G34.0	1306.5	1175.6								
G35.0	1166.9	1049.7								
G36.0	1045.9	938.7								

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	936.2	840.2								
G38.0	841.5	758.0								
G39.0	756.7	686.9								
G40.0	681.9	623.3								
G41.0	617.1	567.2								
G42.0	559.7	518.6								
G43.0	508.6	473.7								
G44.0	463.8	437.6								
G45.0	422.6	402.7								
G46.0	389.0	369.0								
G47.0	357.8	342.8								
G48.0	330.4	319.1								
G49.0	304.2	294.2								
G50.0	279.3	270.5								
G51.0	255.6	250.6								
G52.0	234.4	229.4								
G53.0	211.9	209.4								
G54.0	192.0	189.5								
G55.0	170.8	169.5								
G56.0	153.3	150.8								
G57.0	132.1	132.1								
G58.0	118.4	117.2								
G59.0	103.5	104.7								
G60.0	92.3	89.8								
G61.0	79.8	77.3								
G62.0	67.3	62.3								
G63.0	54.8	51.1								
G64.0	42.4	39.9								
G65.0	29.9	27.4								
G66.0	20.0	16.2								
G67.0	12.5	10.0								
G68.0	6.2	3.7								
G69.0	1.3	1.3								
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: