

Report No.:52.12516 SPECTRUM Downlight Test Time: 2024-07-25 17:56

Luminaire Property

Luminaire Category:

Luminaire Description: 52.12516

Current: 0.130 A

Power Factor: 0.971

Voltage: 220.3 V

Power: 27.90 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2262.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H25.3

Vertical Diffuse Angle(50%): V25.3

Luminaire Efficacy Rating (LER): 81

Max. Intensity: 11076.42 cd

Total Rated Lamp Lumens: 2262.5 lm

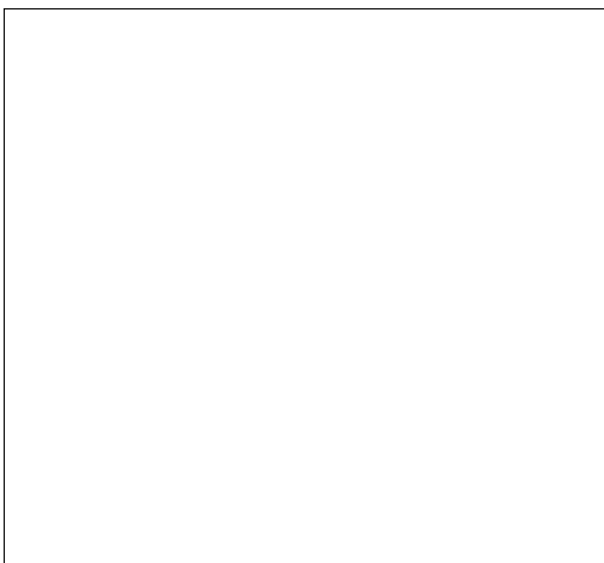
Efficiency: 100%

Upward Ratio: 0%

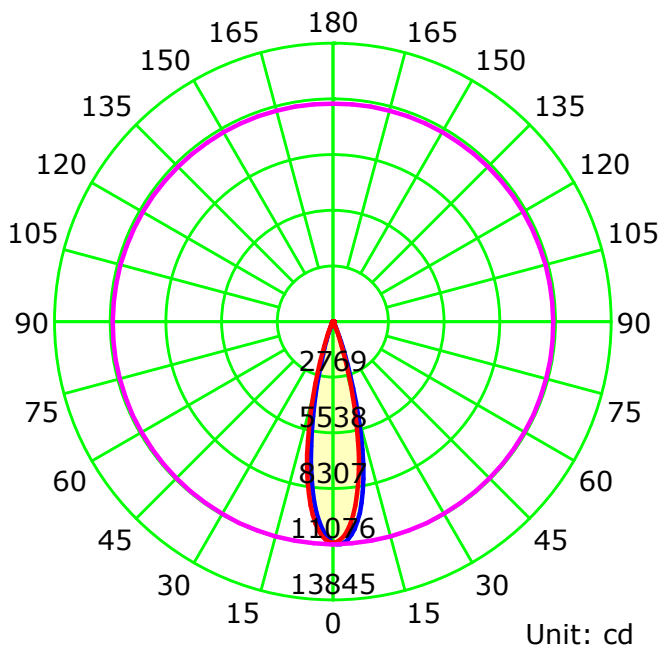
Central Intensity: 11001.63 cd

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

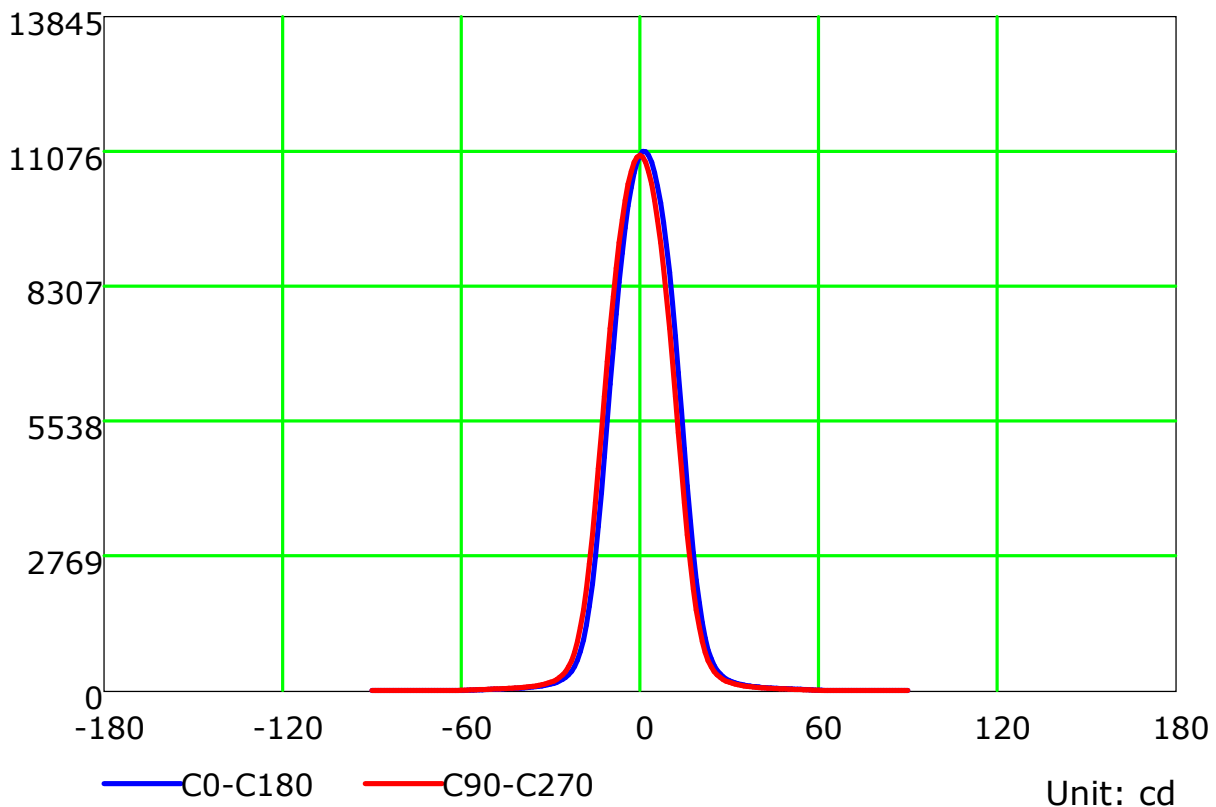
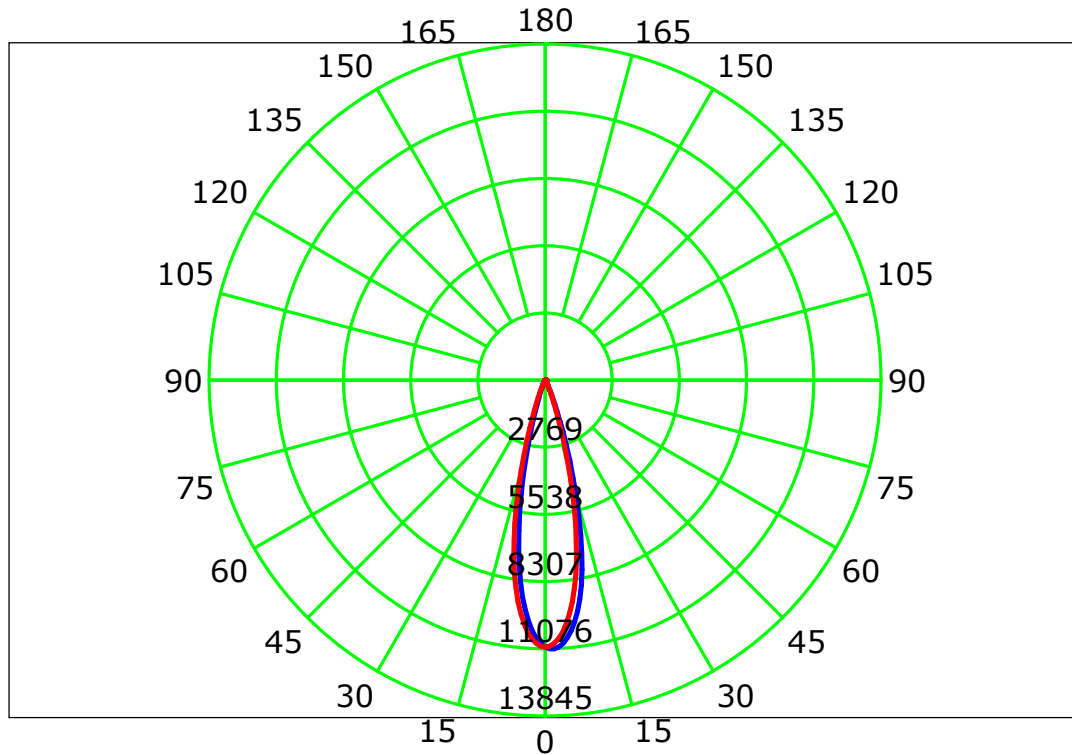
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

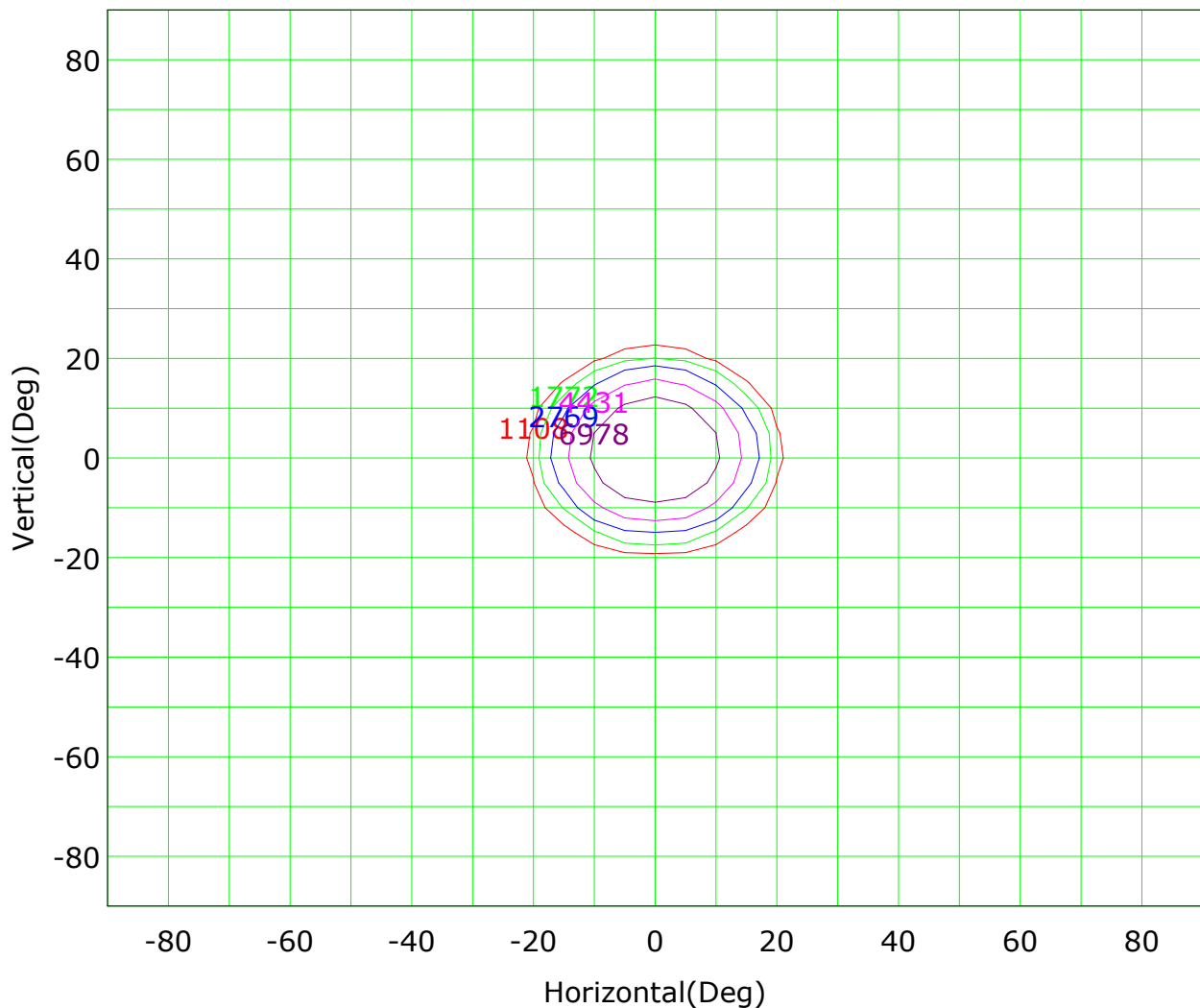
Luminous Intensity Distribution Curve



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%): 11076 cd

(10%): 1108 cd	(16%): 1772 cd
(25%): 2769 cd	(40%): 4431 cd
(63%): 6978 cd	(100%): 11076 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

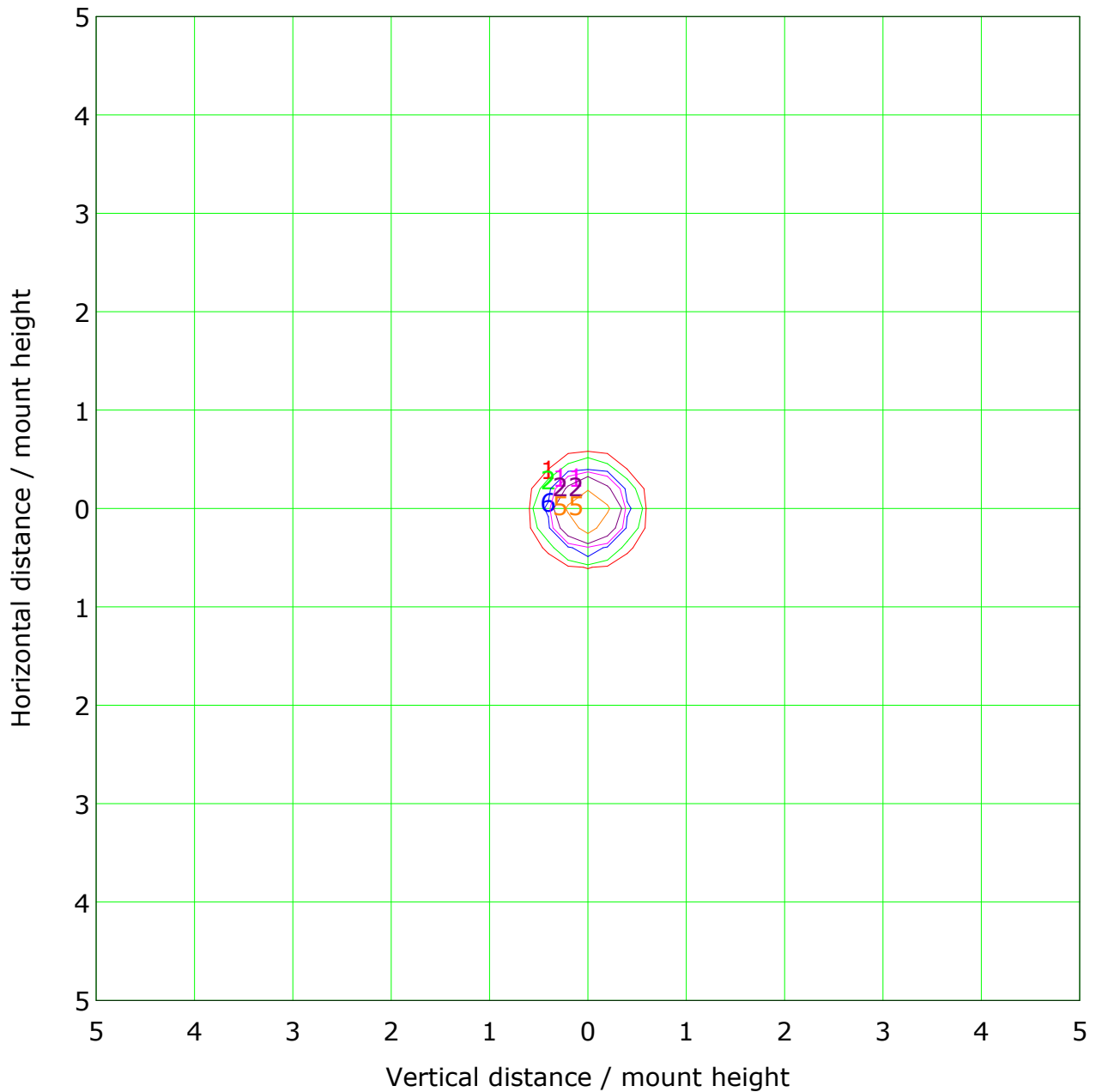
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

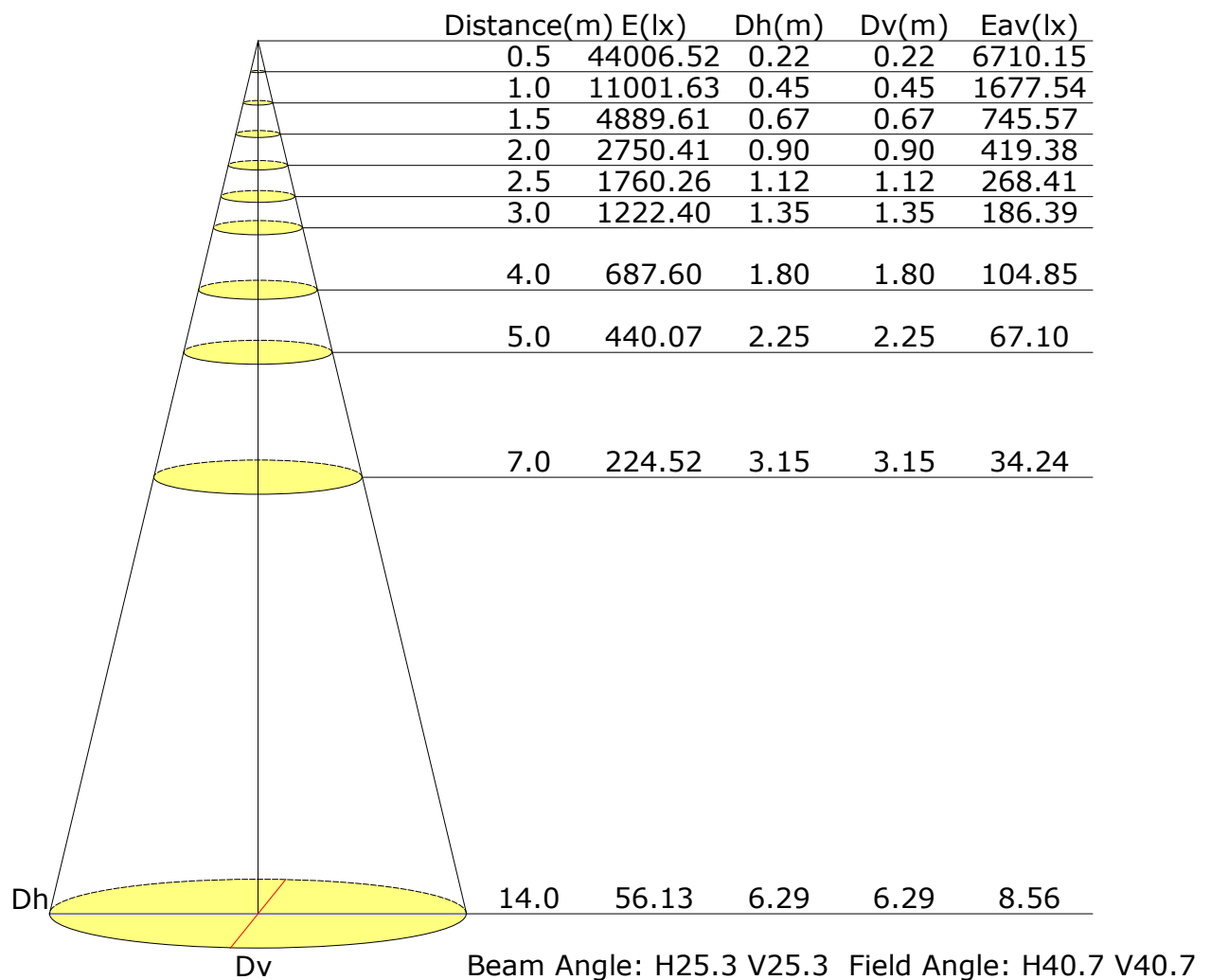


Mounting Height: 10m		Max Lux(100%): 111 lx	
— (1%):	1 lx	— (2%):	2 lx
— (5%):	6 lx	— (10%):	11 lx
— (20%):	22 lx	— (50%):	55 lx
— (100%):	111 lx		

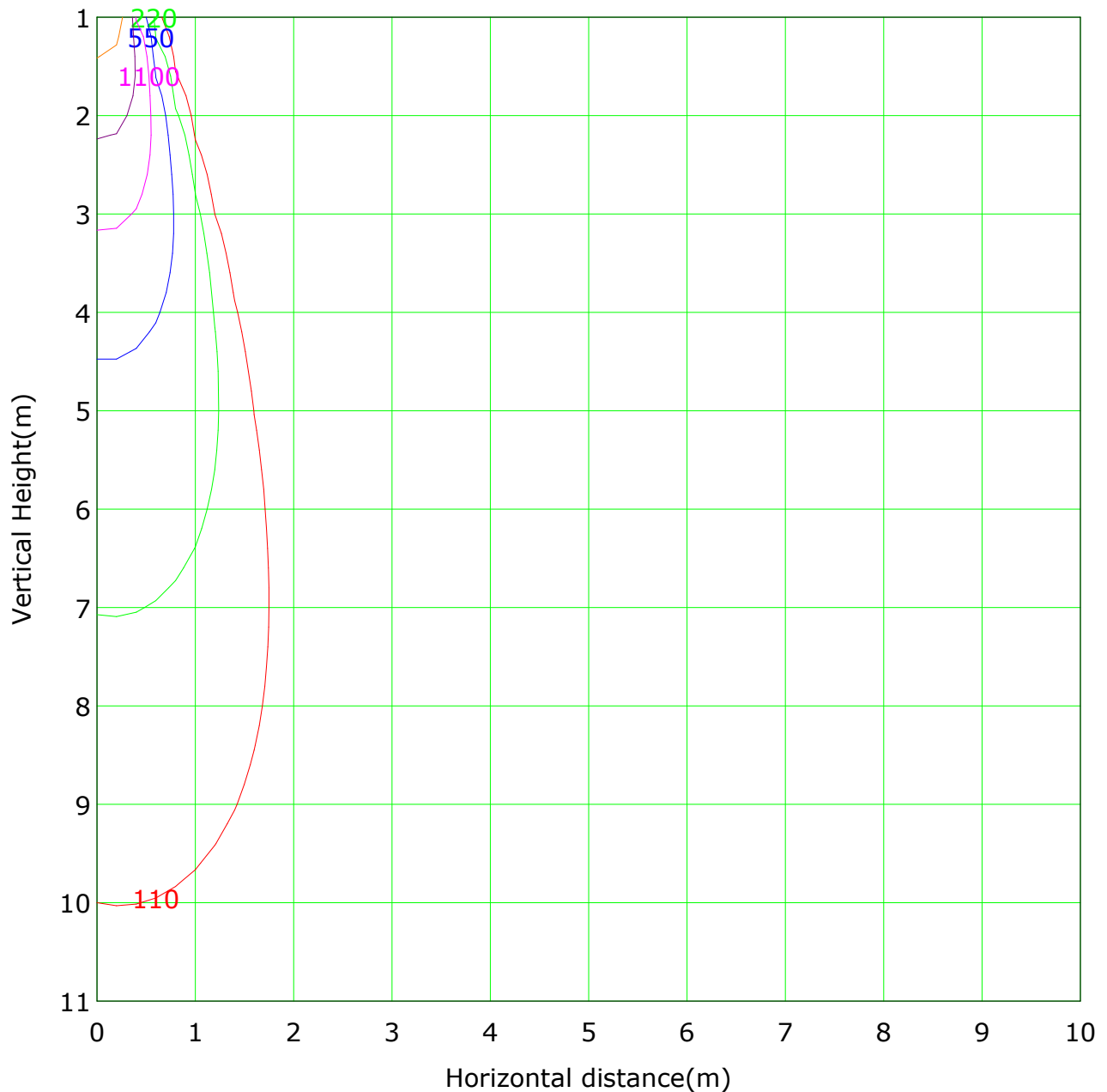
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Illuminance at a Distance

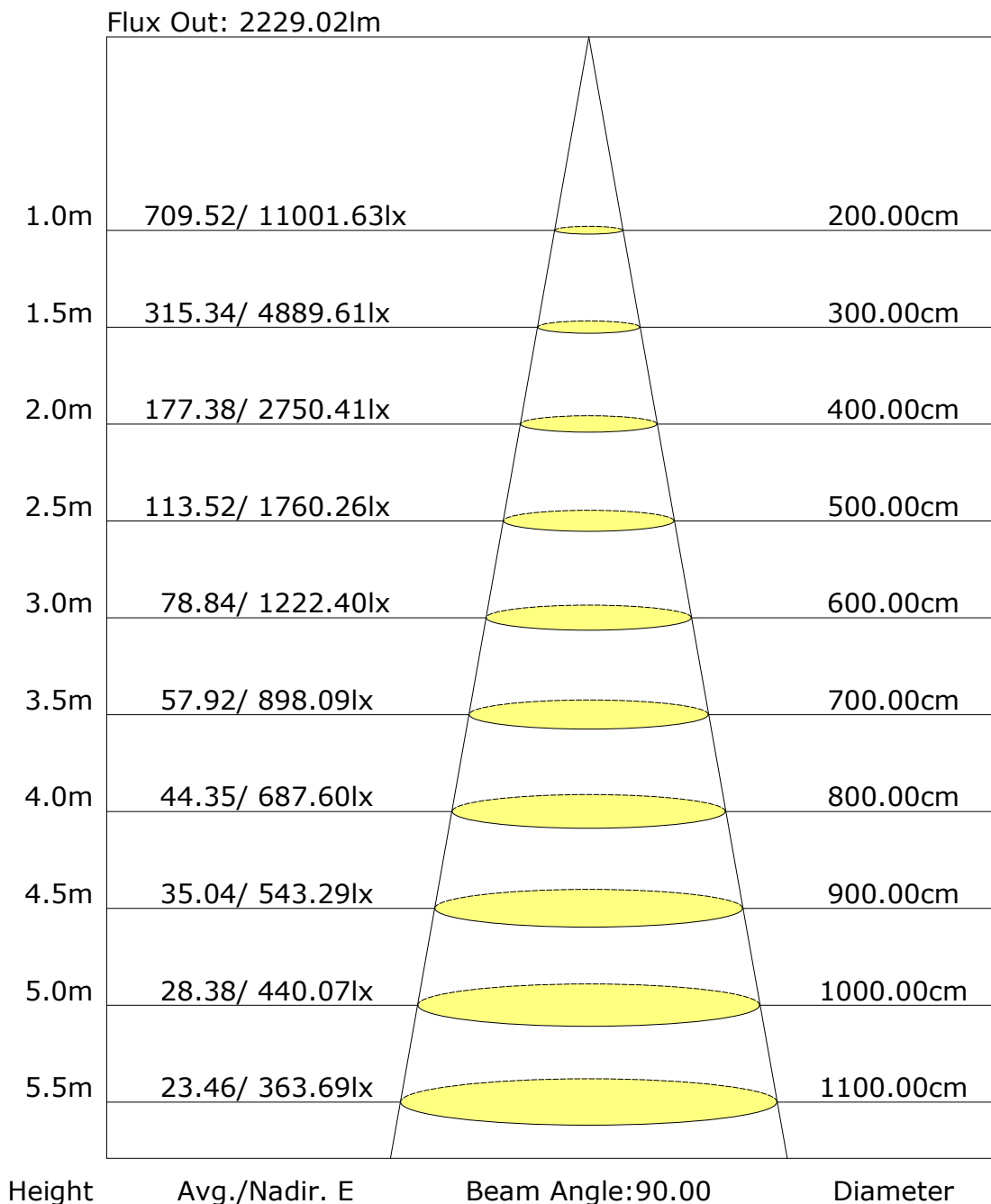


Vertical IsoLux Plot



Lowest(m): 1m Highest(m): 11 Max Lux: 11002
— (1%): 110 lx — (2%): 220 lx
— (5%): 550 lx — (10%): 1100 lx
— (20%): 2200 lx — (50%): 5501 lx
— (100%): 11002 lx

The average illuminance effective figure



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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

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	10982.9	10.5	10.5	0.46	0.46
1.0-2.0	10909.1	31.3	41.8	1.38	1.85
2.0-3.0	10760.7	51.5	93.3	2.27	4.12
3.0-4.0	10538.2	70.5	163.8	3.12	7.24
4.0-5.0	10240.6	88.1	252.0	3.89	11.14
5.0-6.0	9872.8	103.8	355.7	4.59	15.72
6.0-7.0	9438.3	117.2	472.9	5.18	20.90
7.0-8.0	8939.7	128.0	600.9	5.66	26.56
8.0-9.0	8384.3	135.9	736.8	6.01	32.56
9.0-10.0	7768.8	140.6	877.4	6.21	38.78
10.0-11.0	7100.6	141.9	1019.3	6.27	45.05
11.0-12.0	6398.7	139.9	1159.2	6.18	51.23
12.0-13.0	5670.4	134.6	1293.7	5.95	57.18
13.0-14.0	4930.5	126.2	1420.0	5.58	62.76
14.0-15.0	4209.0	115.6	1535.5	5.11	67.87
15.0-16.0	3527.1	103.4	1638.9	4.57	72.44
16.0-17.0	2900.0	90.3	1729.2	3.99	76.43
17.0-18.0	2346.2	77.4	1806.6	3.42	79.85
18.0-19.0	1873.7	65.2	1871.8	2.88	82.73
19.0-20.0	1479.5	54.2	1925.9	2.39	85.12
20.0-21.0	1156.6	44.4	1970.3	1.96	87.09
21.0-22.0	899.5	36.1	2006.5	1.60	88.68
22.0-23.0	701.9	29.5	2035.9	1.30	89.98
23.0-24.0	553.2	24.2	2060.1	1.07	91.05
24.0-25.0	442.2	20.1	2080.2	0.89	91.94
25.0-26.0	359.7	17.0	2097.2	0.75	92.69
26.0-27.0	297.9	14.6	2111.8	0.64	93.34
27.0-28.0	250.3	12.7	2124.5	0.56	93.90
28.0-29.0	212.9	11.1	2135.6	0.49	94.39
29.0-30.0	184.2	9.9	2145.6	0.44	94.83
30.0-31.0	161.8	9.0	2154.6	0.40	95.23
31.0-32.0	143.1	8.2	2162.8	0.36	95.59
32.0-33.0	127.2	7.5	2170.3	0.33	95.92
33.0-34.0	113.8	6.9	2177.1	0.30	96.23
34.0-35.0	102.8	6.4	2183.5	0.28	96.51
35.0-36.0	93.2	5.9	2189.5	0.26	96.77

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	84.8	5.5	2195.0	0.24	97.01
37.0-38.0	77.3	5.2	2200.2	0.23	97.24
38.0-39.0	71.1	4.9	2205.0	0.21	97.46
39.0-40.0	65.8	4.6	2209.6	0.20	97.66
40.0-41.0	60.5	4.3	2213.9	0.19	97.85
41.0-42.0	55.5	4.0	2217.9	0.18	98.03
42.0-43.0	52.1	3.9	2221.8	0.17	98.20
43.0-44.0	48.9	3.7	2225.5	0.16	98.36
44.0-45.0	46.1	3.5	2229.0	0.16	98.52
45.0-46.0	43.9	3.4	2232.5	0.15	98.67
46.0-47.0	40.5	3.2	2235.7	0.14	98.81
47.0-48.0	37.1	3.0	2238.7	0.13	98.95
48.0-49.0	34.9	2.9	2241.5	0.13	99.07
49.0-50.0	33.3	2.8	2244.3	0.12	99.20
50.0-51.0	30.9	2.6	2246.9	0.12	99.31
51.0-52.0	27.4	2.4	2249.3	0.10	99.41
52.0-53.0	24.9	2.2	2251.5	0.10	99.51
53.0-54.0	23.1	2.0	2253.5	0.09	99.60
54.0-55.0	20.6	1.8	2255.3	0.08	99.68
55.0-56.0	17.5	1.6	2256.9	0.07	99.75
56.0-57.0	14.7	1.3	2258.3	0.06	99.81
57.0-58.0	12.8	1.2	2259.4	0.05	99.86
58.0-59.0	10.6	1.0	2260.4	0.04	99.91
59.0-60.0	8.1	0.8	2261.2	0.03	99.94
60.0-61.0	5.6	0.5	2261.7	0.02	99.96
61.0-62.0	3.7	0.4	2262.1	0.02	99.98
62.0-63.0	2.5	0.2	2262.3	0.01	99.99
63.0-64.0	1.2	0.1	2262.4	0.01	100.00
64.0-65.0	0.6	0.1	2262.5	0.00	100.00
65.0-66.0	0.3	0.0	2262.5	0.00	100.00
66.0-67.0	0.0	0.0	2262.5	0.00	100.00
67.0-68.0	0.0	0.0	2262.5	0.00	100.00
68.0-69.0	0.0	0.0	2262.5	0.00	100.00
69.0-70.0	0.0	0.0	2262.5	0.00	100.00
70.0-71.0	0.0	0.0	2262.5	0.00	100.00
71.0-72.0	0.0	0.0	2262.5	0.00	100.00

C Plane (°):0.0-180.0: 180.0
Test Lab:
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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	11001.6	11001.6								
G1.0	11076.4	10852.0								
G2.0	11071.4	10636.4								
G3.0	10999.1	10335.9								
G4.0	10858.3	9959.4								
G5.0	10636.4	9508.2								
G6.0	10360.8	8985.8								
G7.0	10019.3	8387.4								
G8.0	9616.6	7735.4								
G9.0	9144.1	7041.0								
G10.0	8590.6	6299.3								
G11.0	7963.6	5548.8								
G12.0	7282.9	4799.6								
G13.0	6537.4	4061.6								
G14.0	5749.5	3373.4								
G15.0	4969.1	2743.9								
G16.0	4203.7	2191.6								
G17.0	3474.4	1730.3								
G18.0	2831.1	1348.9								
G19.0	2271.4	1043.4								
G20.0	1796.4	806.6								
G21.0	1396.2	627.1								
G22.0	1079.6	494.9								
G23.0	835.3	397.7								
G24.0	653.2	326.6								
G25.0	518.6	270.5								
G26.0	418.9	230.6								
G27.0	342.8	199.5								
G28.0	288.0	170.8								
G29.0	241.9	150.8								
G30.0	209.4	134.6								
G31.0	183.3	119.7								
G32.0	160.8	108.5								
G33.0	142.1	97.2								
G34.0	127.2	88.5								
G35.0	114.7	81.0								
G36.0	103.5	73.6								

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	93.5	68.6								
G38.0	84.8	62.3								
G39.0	79.8	57.3								
G40.0	73.6	52.4								
G41.0	64.8	51.1								
G42.0	59.8	46.1								
G43.0	57.3	44.9								
G44.0	53.6	39.9								
G45.0	51.1	39.9								
G46.0	47.4	37.4								
G47.0	44.9	32.4								
G48.0	41.1	29.9								
G49.0	39.9	28.7								
G50.0	37.4	27.4								
G51.0	34.9	23.7								
G52.0	29.9	21.2								
G53.0	29.9	18.7								
G54.0	27.4	16.2								
G55.0	23.7	15.0								
G56.0	20.0	11.2								
G57.0	18.7	8.7								
G58.0	15.0	8.7								
G59.0	12.5	6.2								
G60.0	10.0	3.7								
G61.0	7.5	1.3								
G62.0	6.2	0.0								
G63.0	3.7	0.0								
G64.0	1.3	0.0								
G65.0	1.3	0.0								
G66.0	0.0	0.0								
G67.0	0.0	0.0								
G68.0	0.0	0.0								
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:

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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: