

Report No.:52.12516 SPECTRUM Downlight Test Time: 2024-07-25 17:52

Luminaire Property

Luminaire Category:

Luminaire Description: 52.12516

Current: 0.130 A

Power Factor: 0.969

Voltage: 220.8 V

Power: 27.90 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2130.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H18.4

Vertical Diffuse Angle(50%): V18.4

Luminaire Efficacy Rating (LER): 76

Max. Intensity: 14816.35 cd

Total Rated Lamp Lumens: 2130.7 lm

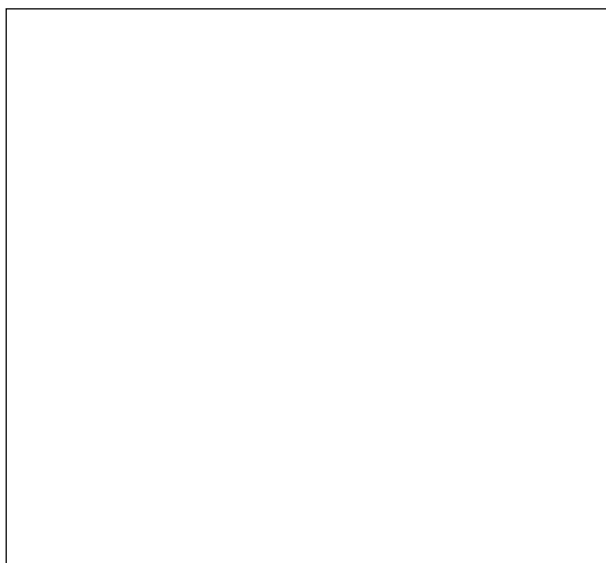
Efficiency: 100%

Upward Ratio: 0%

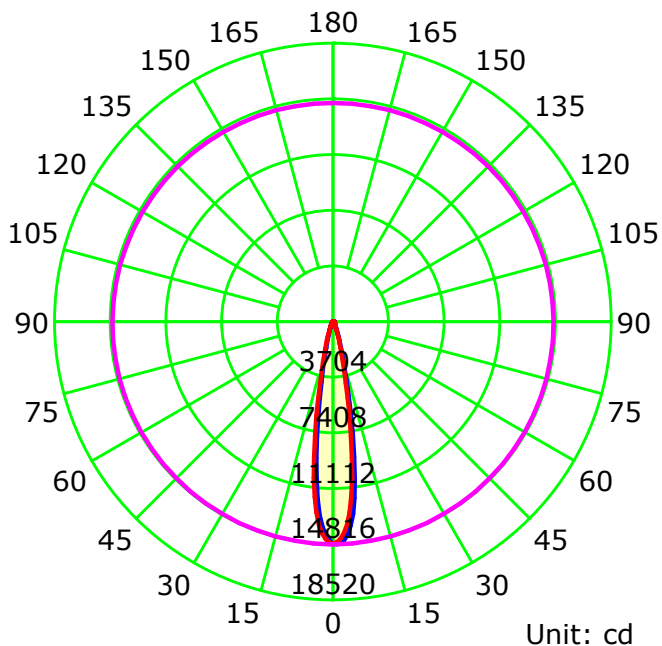
Central Intensity: 14755.27 cd

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

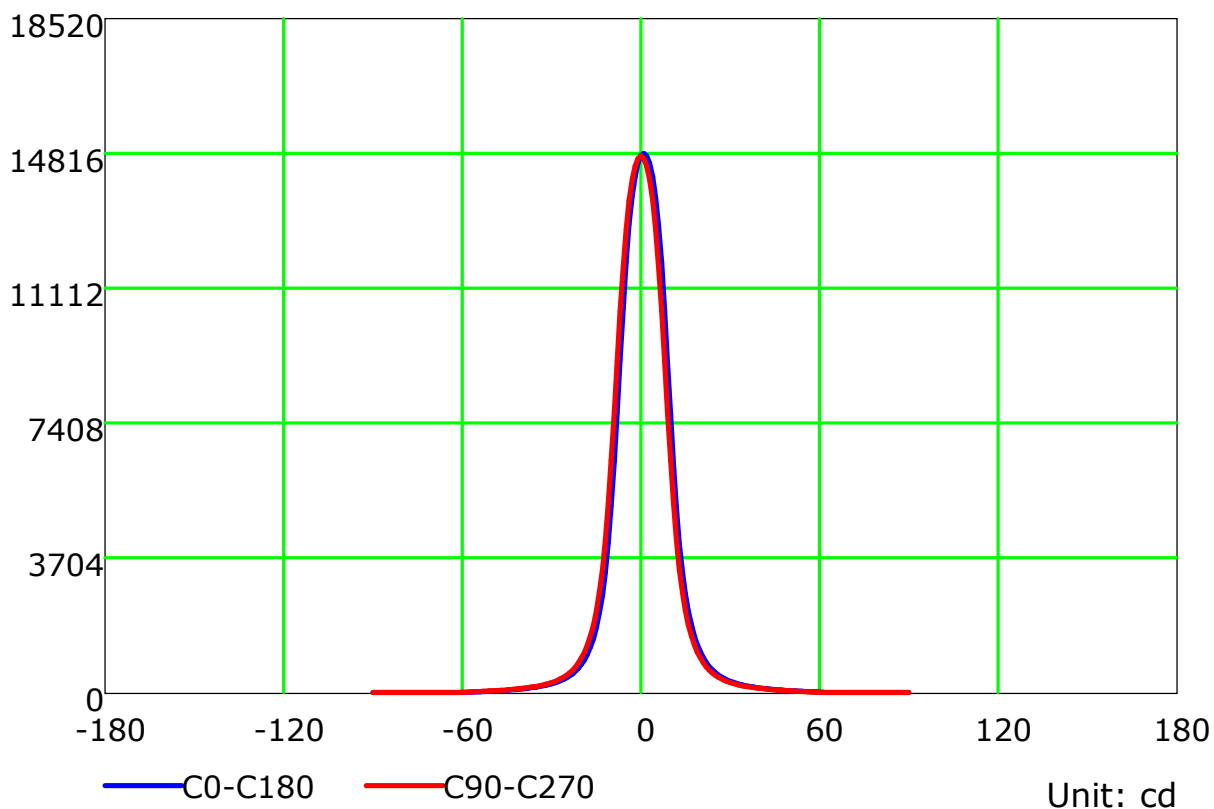
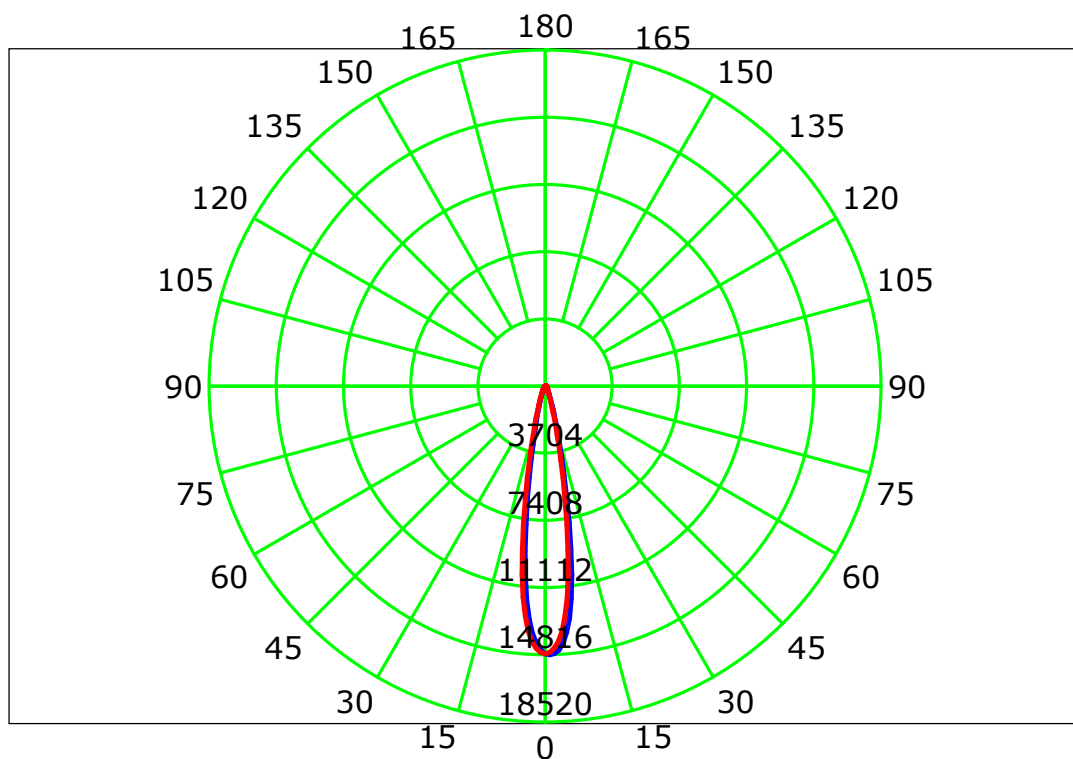
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

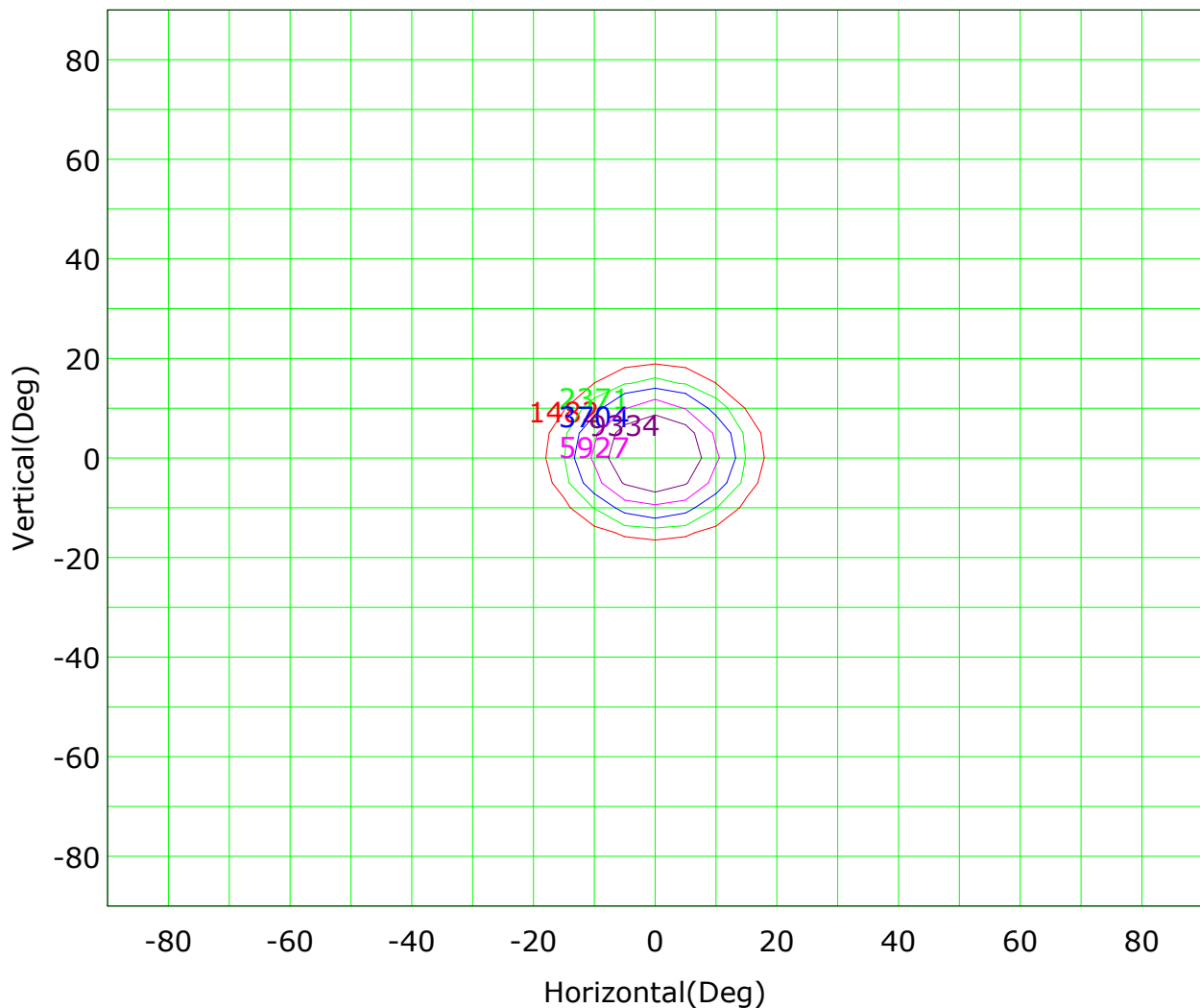
Luminous Intensity Distribution Curve



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%): 14816 cd

(10%): 1482 cd	(16%): 2371 cd
(25%): 3704 cd	(40%): 5927 cd
(63%): 9334 cd	(100%): 14816 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

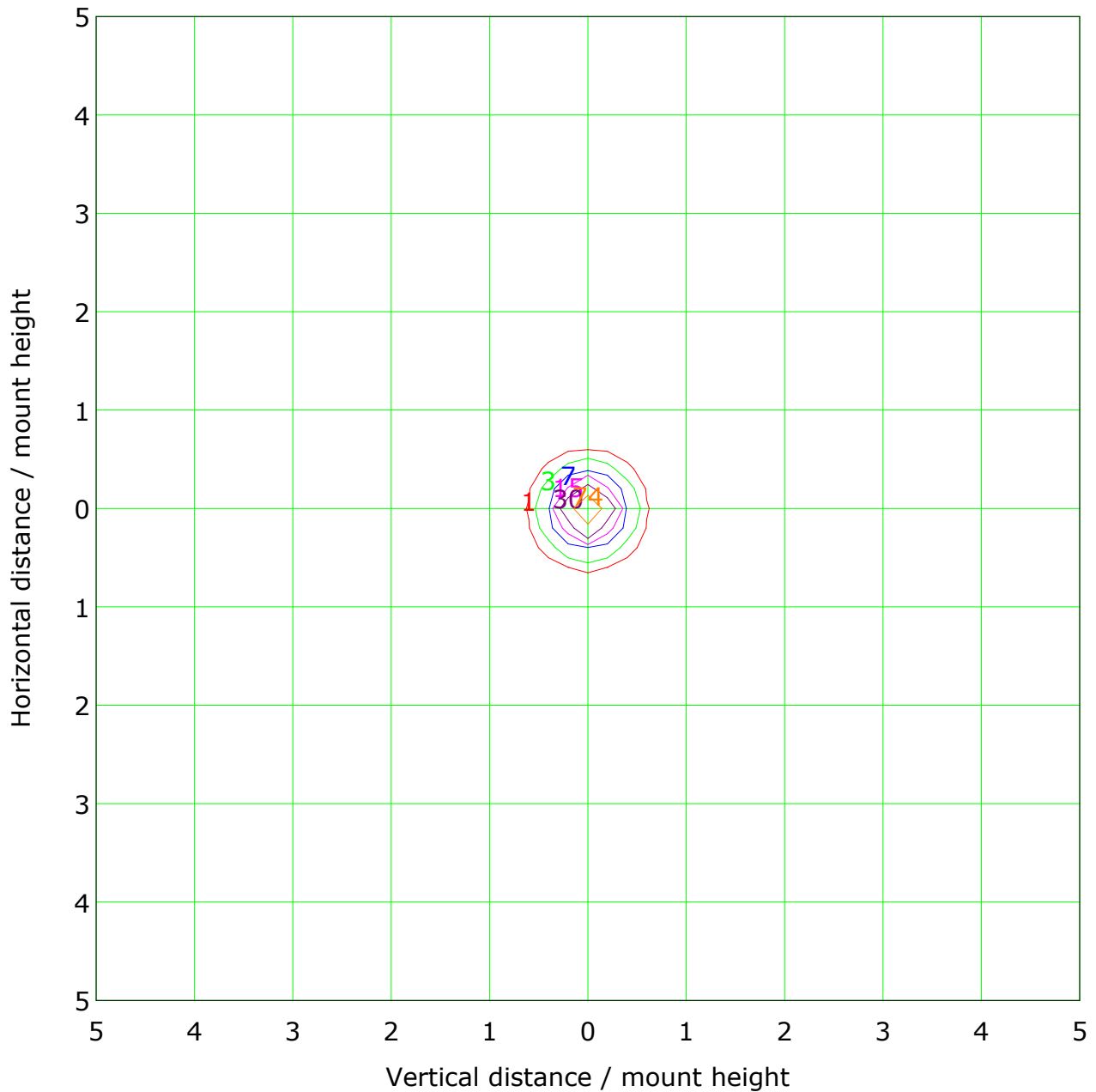
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10m		Max Lux(100%): 148 lx	
— (1%):	1 lx	— (2%):	3 lx
— (5%):	7 lx	— (10%):	15 lx
— (20%):	30 lx	— (50%):	74 lx
— (100%):	148 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

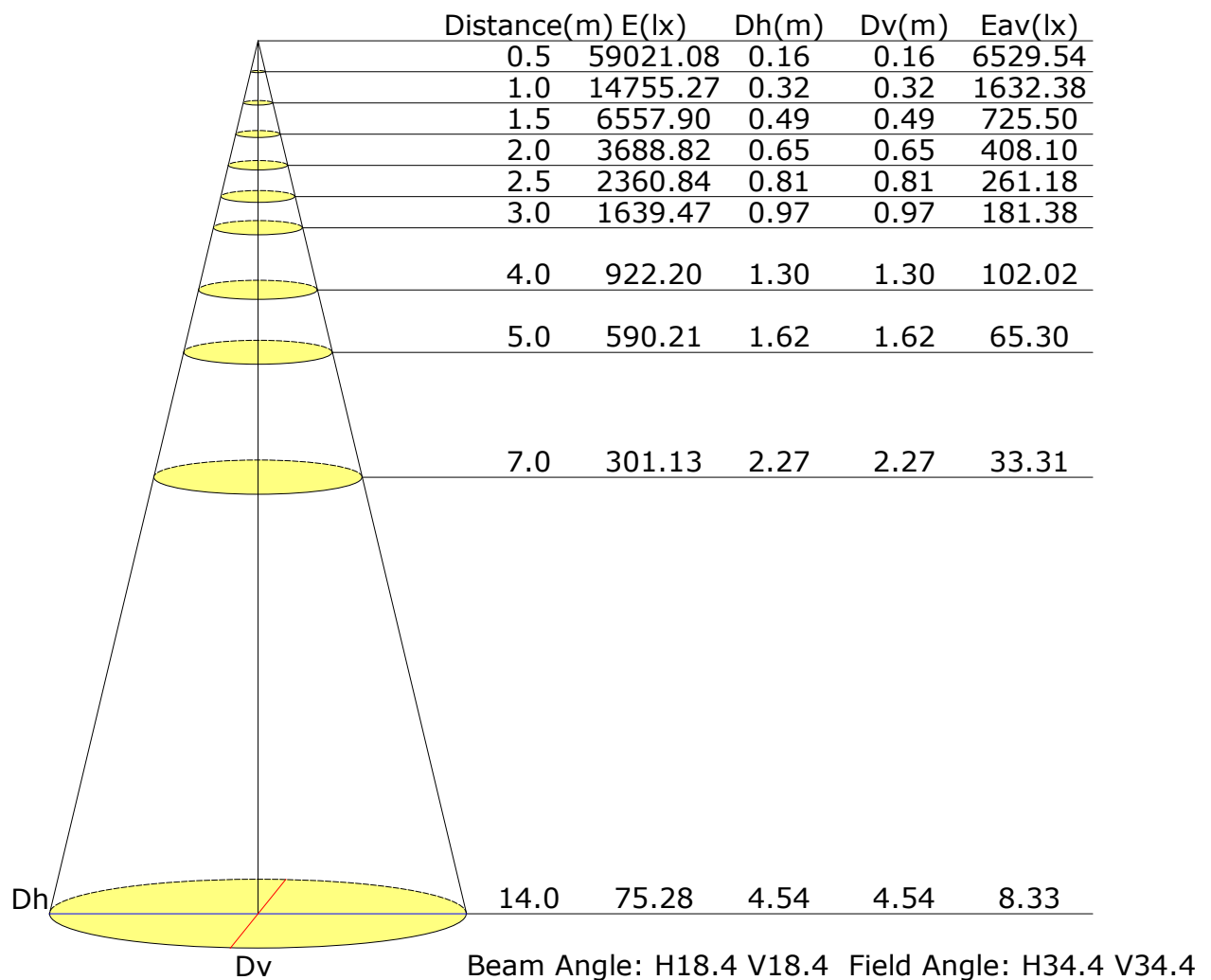
Test Device: CHL-6E

Distance: 3.328 m

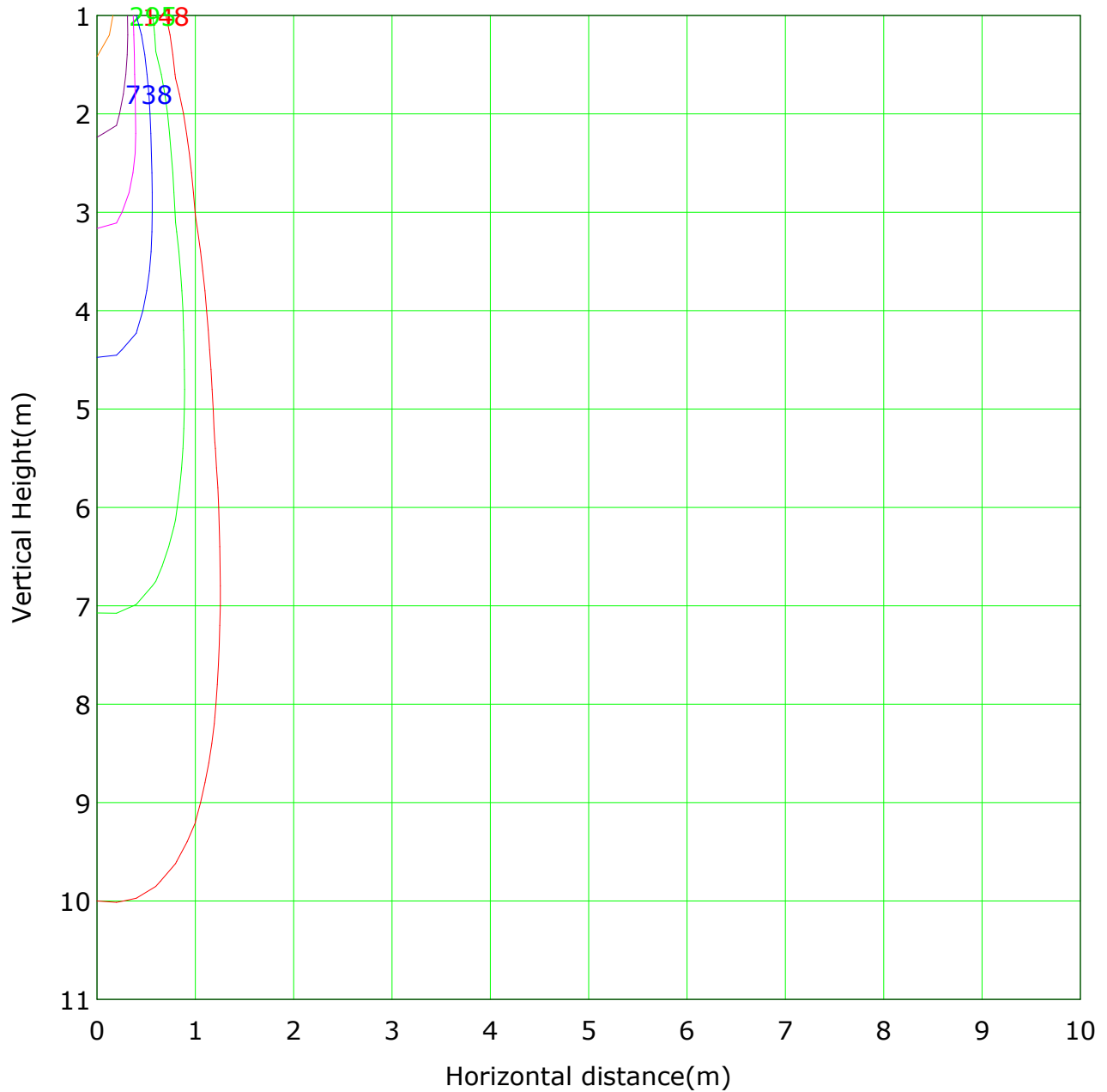
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

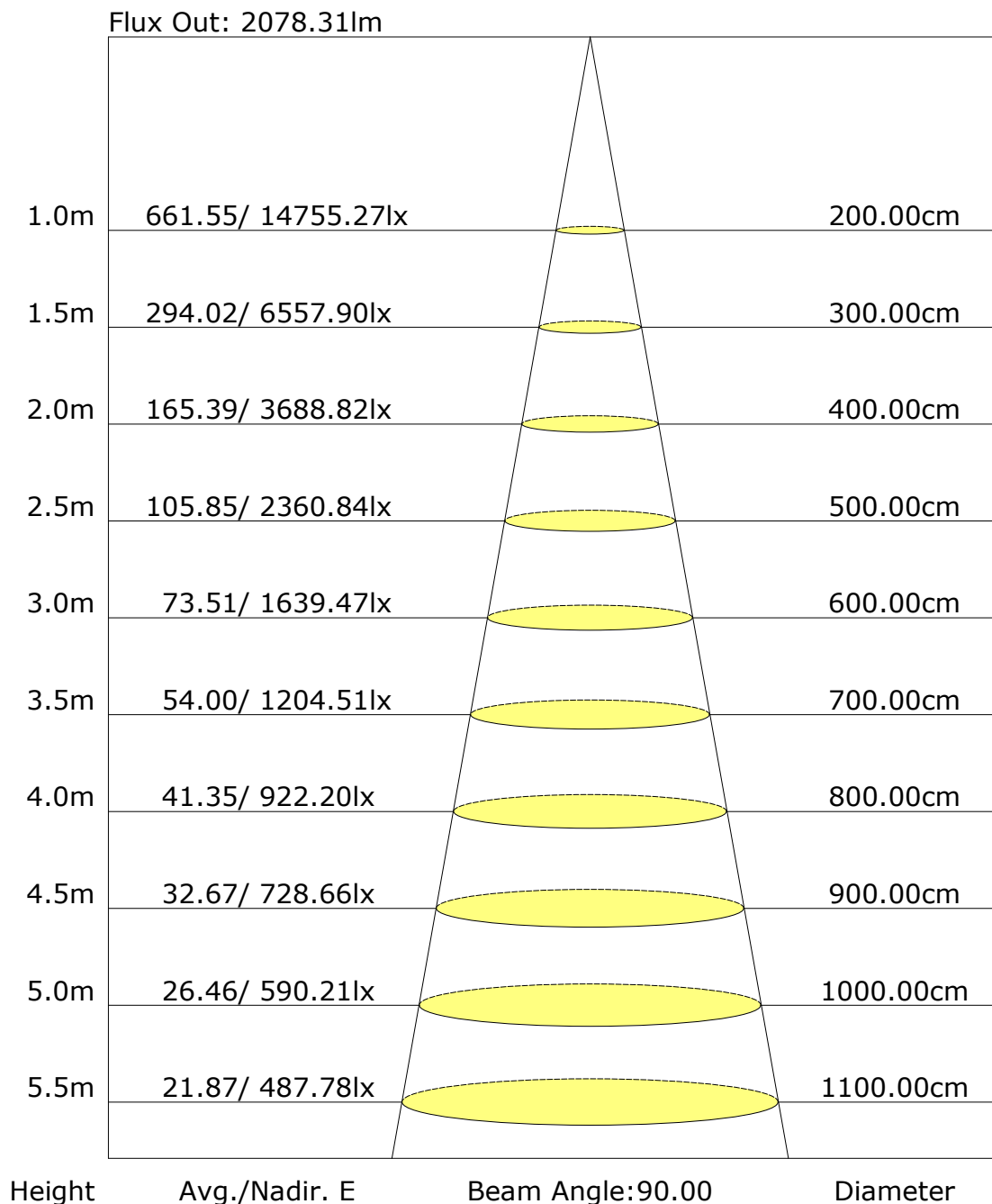


Lowest(m): 1m Highest(m): 11 Max Lux: 14755
— (1%): 148 lx — (2%): 295 lx
— (5%): 738 lx — (10%): 1476 lx
— (20%): 2951 lx — (50%): 7378 lx
— (100%): 14755 lx

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	14718.8	14.1	14.1	0.66	0.66
1.0-2.0	14575.1	41.8	55.9	1.96	2.62
2.0-3.0	14285.9	68.3	124.3	3.21	5.83
3.0-4.0	13816.5	92.5	216.8	4.34	10.17
4.0-5.0	13127.5	112.9	329.7	5.30	15.47
5.0-6.0	12218.3	128.4	458.1	6.03	21.50
6.0-7.0	11097.6	137.8	595.9	6.47	27.97
7.0-8.0	9803.6	140.3	736.2	6.59	34.55
8.0-9.0	8422.9	136.5	872.7	6.41	40.96
9.0-10.0	7054.4	127.7	1000.4	5.99	46.95
10.0-11.0	5789.1	115.7	1116.1	5.43	52.38
11.0-12.0	4692.4	102.6	1218.7	4.81	57.20
12.0-13.0	3786.7	89.9	1308.6	4.22	61.42
13.0-14.0	3064.6	78.5	1387.0	3.68	65.10
14.0-15.0	2499.8	68.6	1455.7	3.22	68.32
15.0-16.0	2058.2	60.3	1516.0	2.83	71.15
16.0-17.0	1711.0	53.3	1569.3	2.50	73.65
17.0-18.0	1434.3	47.3	1616.6	2.22	75.87
18.0-19.0	1211.7	42.2	1658.7	1.98	77.85
19.0-20.0	1031.6	37.8	1696.5	1.77	79.62
20.0-21.0	885.1	34.0	1730.5	1.60	81.22
21.0-22.0	764.5	30.7	1761.2	1.44	82.66
22.0-23.0	664.8	27.9	1789.1	1.31	83.97
23.0-24.0	582.2	25.5	1814.6	1.19	85.16
24.0-25.0	513.9	23.4	1837.9	1.10	86.26
25.0-26.0	455.6	21.5	1859.5	1.01	87.27
26.0-27.0	405.2	19.8	1879.3	0.93	88.20
27.0-28.0	362.5	18.4	1897.6	0.86	89.06
28.0-29.0	325.4	17.0	1914.7	0.80	89.86
29.0-30.0	292.7	15.8	1930.5	0.74	90.60
30.0-31.0	264.9	14.7	1945.2	0.69	91.29
31.0-32.0	241.2	13.8	1959.0	0.65	91.94
32.0-33.0	220.0	13.0	1972.0	0.61	92.55
33.0-34.0	201.0	12.2	1984.2	0.57	93.12
34.0-35.0	183.6	11.4	1995.6	0.54	93.66
35.0-36.0	168.9	10.8	2006.3	0.50	94.16

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	156.5	10.2	2016.5	0.48	94.64
37.0-38.0	143.7	9.6	2026.1	0.45	95.09
38.0-39.0	131.2	9.0	2035.1	0.42	95.51
39.0-40.0	120.6	8.4	2043.5	0.39	95.91
40.0-41.0	111.3	7.9	2051.4	0.37	96.28
41.0-42.0	101.9	7.4	2058.8	0.35	96.63
42.0-43.0	93.5	6.9	2065.7	0.33	96.95
43.0-44.0	86.0	6.5	2072.2	0.30	97.26
44.0-45.0	79.2	6.1	2078.3	0.29	97.54
45.0-46.0	72.3	5.7	2084.0	0.27	97.81
46.0-47.0	66.4	5.3	2089.2	0.25	98.05
47.0-48.0	61.4	5.0	2094.2	0.23	98.29
48.0-49.0	56.4	4.6	2098.8	0.22	98.51
49.0-50.0	51.4	4.3	2103.1	0.20	98.71
50.0-51.0	46.4	3.9	2107.1	0.18	98.89
51.0-52.0	42.7	3.7	2110.7	0.17	99.06
52.0-53.0	38.6	3.4	2114.1	0.16	99.22
53.0-54.0	33.7	3.0	2117.1	0.14	99.36
54.0-55.0	29.6	2.6	2119.7	0.12	99.48
55.0-56.0	25.9	2.3	2122.0	0.11	99.59
56.0-57.0	22.1	2.0	2124.1	0.09	99.69
57.0-58.0	17.8	1.6	2125.7	0.08	99.77
58.0-59.0	14.3	1.3	2127.0	0.06	99.83
59.0-60.0	11.8	1.1	2128.2	0.05	99.88
60.0-61.0	9.0	0.9	2129.0	0.04	99.92
61.0-62.0	7.2	0.7	2129.7	0.03	99.95
62.0-63.0	5.0	0.5	2130.2	0.02	99.98
63.0-64.0	2.8	0.3	2130.5	0.01	99.99
64.0-65.0	1.2	0.1	2130.6	0.01	100.00
65.0-66.0	0.6	0.1	2130.7	0.00	100.00
66.0-67.0	0.3	0.0	2130.7	0.00	100.00
67.0-68.0	0.0	0.0	2130.7	0.00	100.00
68.0-69.0	0.0	0.0	2130.7	0.00	100.00
69.0-70.0	0.0	0.0	2130.7	0.00	100.00
70.0-71.0	0.0	0.0	2130.7	0.00	100.00
71.0-72.0	0.0	0.0	2130.7	0.00	100.00

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
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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	14755.3	14755.3								
G1.0	14816.3	14548.3								
G2.0	14754.0	14181.8								
G3.0	14558.3	13649.5								
G4.0	14181.8	12876.6								
G5.0	13614.6	11836.9								
G6.0	12856.6	10565.3								
G7.0	11823.2	9145.4								
G8.0	10540.4	7705.5								
G9.0	9095.5	6350.4								
G10.0	7644.4	5127.4								
G11.0	6273.1	4111.4								
G12.0	5083.8	3301.1								
G13.0	4097.7	2664.1								
G14.0	3322.3	2174.1								
G15.0	2713.9	1788.9								
G16.0	2244.0	1486.0								
G17.0	1866.2	1247.9								
G18.0	1565.8	1057.2								
G19.0	1322.7	901.3								
G20.0	1125.7	776.7								
G21.0	963.7	674.4								
G22.0	830.3	589.7								
G23.0	720.6	518.6								
G24.0	630.8	458.8								
G25.0	556.0	410.1								
G26.0	489.9	366.5								
G27.0	435.1	329.1								
G28.0	389.0	296.7								
G29.0	347.8	268.0								
G30.0	311.7	243.1								
G31.0	283.0	221.9								
G32.0	258.1	202.0								
G33.0	234.4	185.8								
G34.0	211.9	172.0								
G35.0	193.2	157.1								
G36.0	178.3	147.1								

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	165.8	134.6								
G38.0	152.1	122.2								
G39.0	139.6	110.9								
G40.0	129.6	102.2								
G41.0	119.7	93.5								
G42.0	109.7	84.8								
G43.0	99.7	79.8								
G44.0	93.5	71.1								
G45.0	86.0	66.1								
G46.0	77.3	59.8								
G47.0	71.1	57.3								
G48.0	67.3	49.9								
G49.0	61.1	47.4								
G50.0	54.8	42.4								
G51.0	49.9	38.7								
G52.0	47.4	34.9								
G53.0	42.4	29.9								
G54.0	38.7	23.7								
G55.0	34.9	21.2								
G56.0	28.7	18.7								
G57.0	26.2	15.0								
G58.0	20.0	10.0								
G59.0	18.7	8.7								
G60.0	13.7	6.2								
G61.0	10.0	6.2								
G62.0	8.7	3.7								
G63.0	6.2	1.3								
G64.0	3.7	0.0								
G65.0	1.3	0.0								
G66.0	1.3	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:
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: