

Report No.:52.12516 SPECTRUM Downlight Test Time: 2024-07-25 17:59

Luminaire Property

Luminaire Category:

Luminaire Description: 52.12516

Current: 0.131 A

Power Factor: 0.971

Voltage: 218.1 V

Power: 27.80 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2336.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H40

Vertical Diffuse Angle(50%): V40

Luminaire Efficacy Rating (LER): 84

Max. Intensity: 5198.5 cd

Total Rated Lamp Lumens: 2336.1 lm

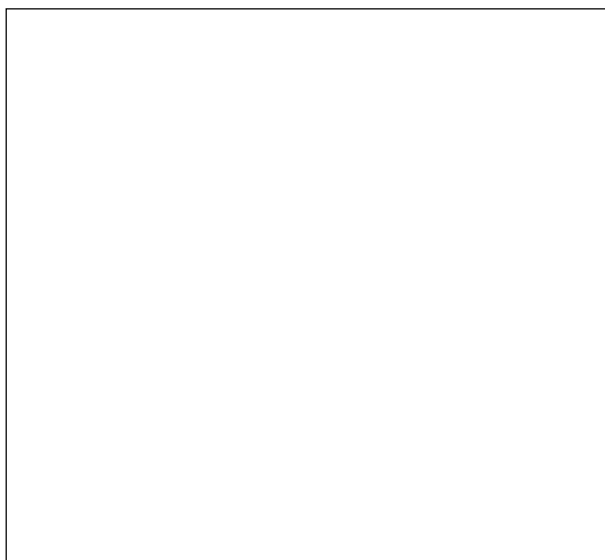
Efficiency: 100%

Upward Ratio: 0%

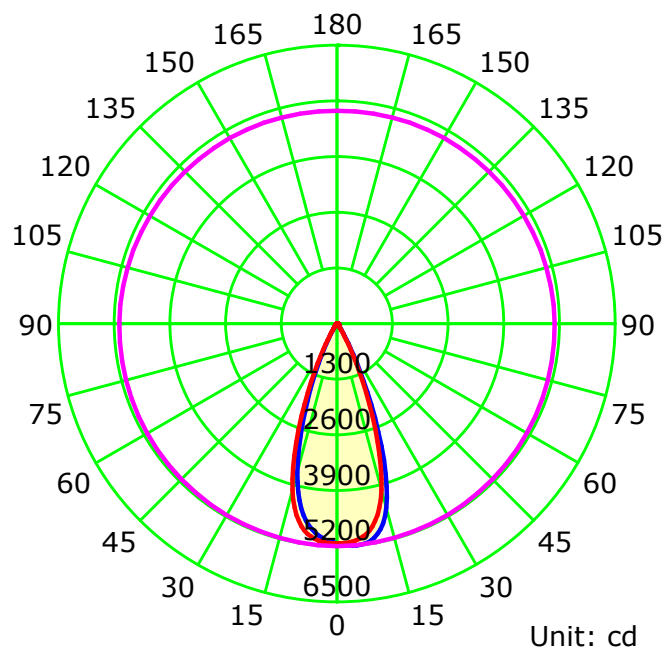
Central Intensity: 5131.18 cd

Pos of Max. Intensity: H0 V5

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G5

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

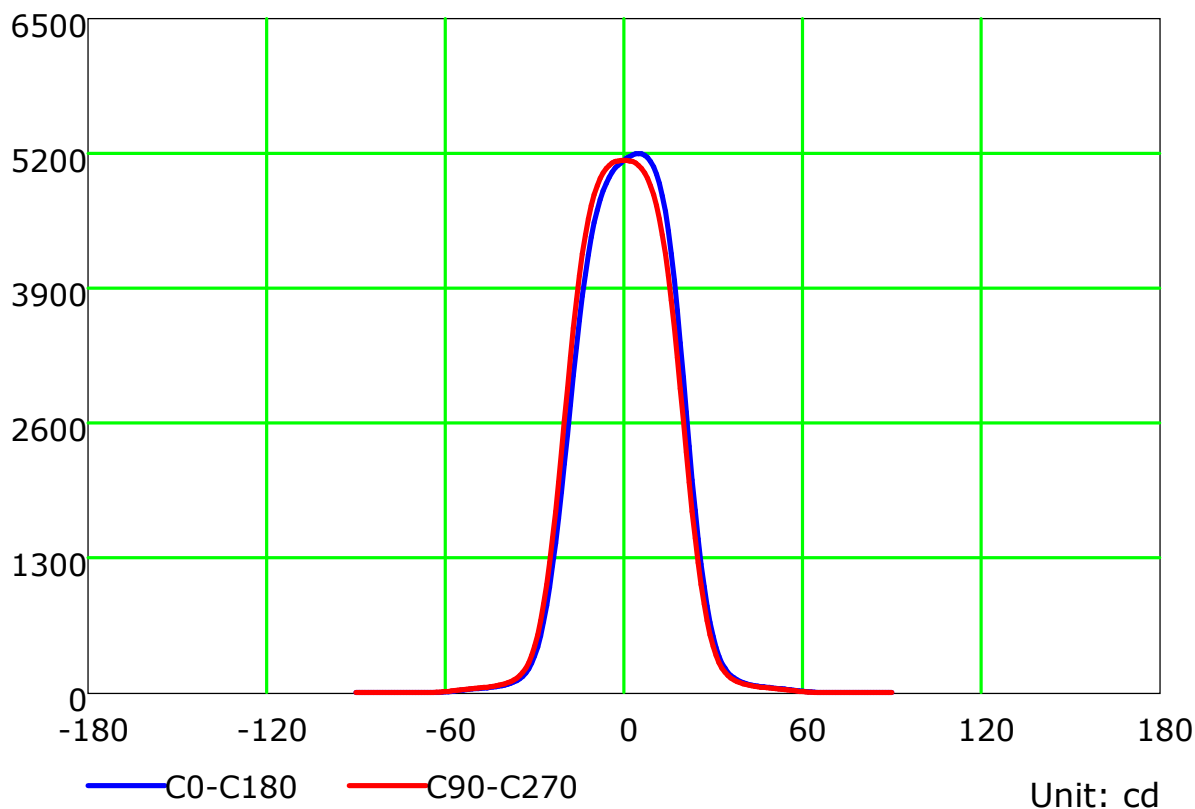
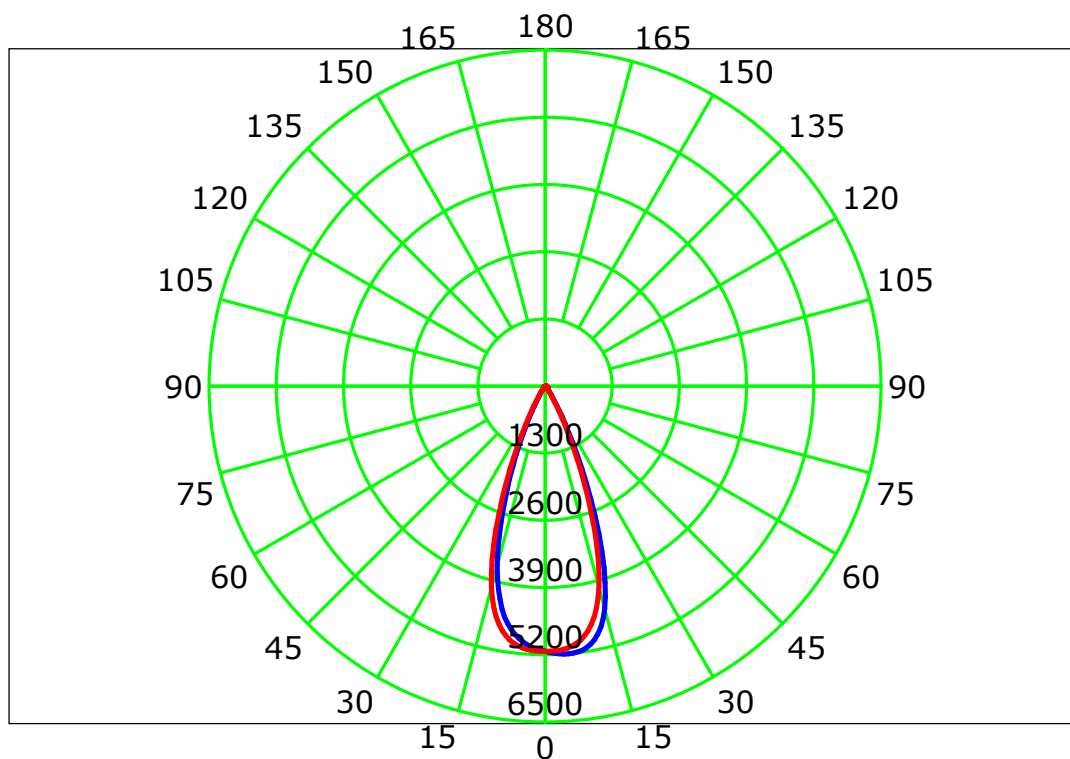
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

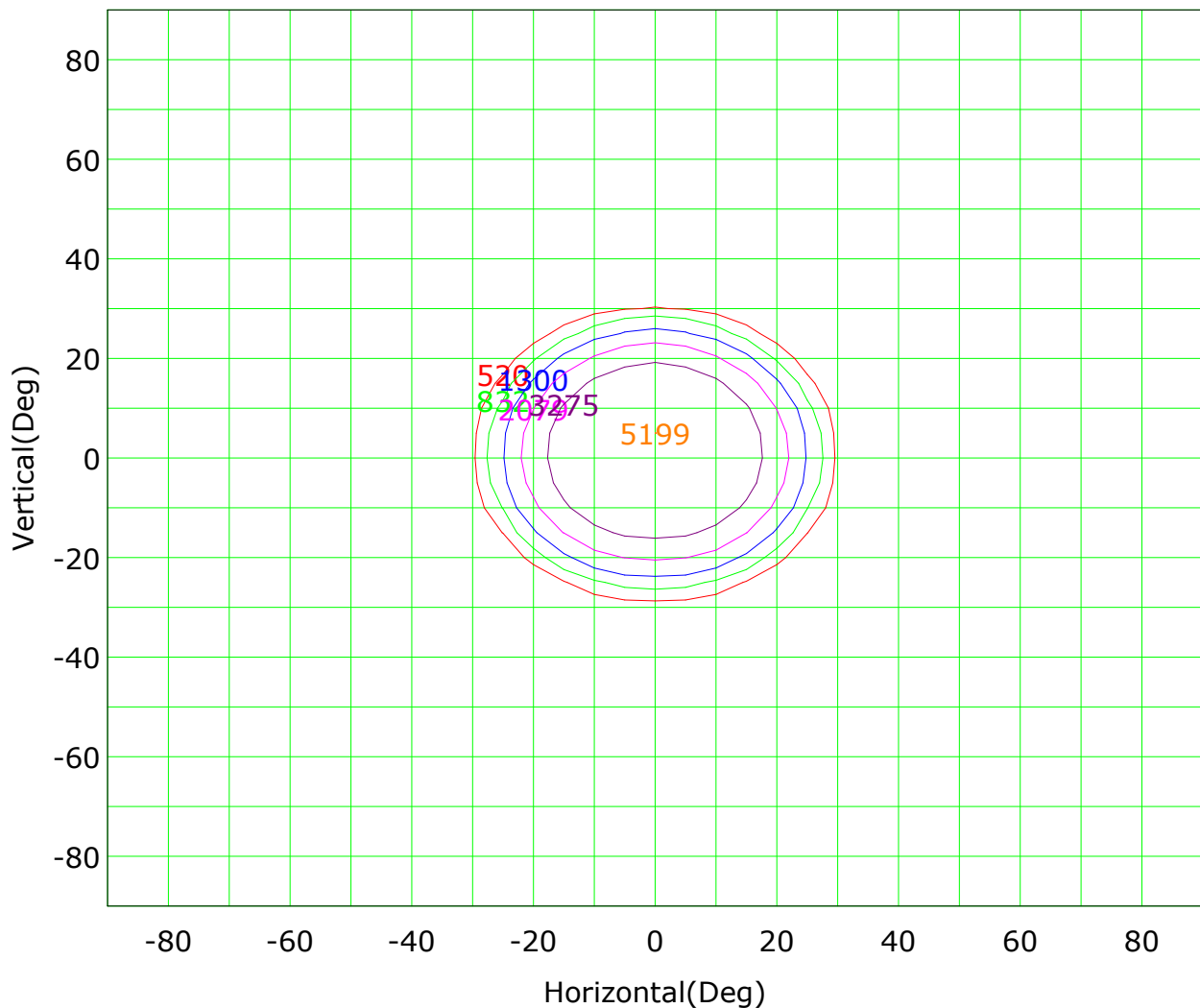
Luminous Intensity Distribution Curve



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%): 5199 cd

(10%): 520 cd	(16%): 832 cd
(25%): 1300 cd	(40%): 2079 cd
(63%): 3275 cd	(100%): 5199 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

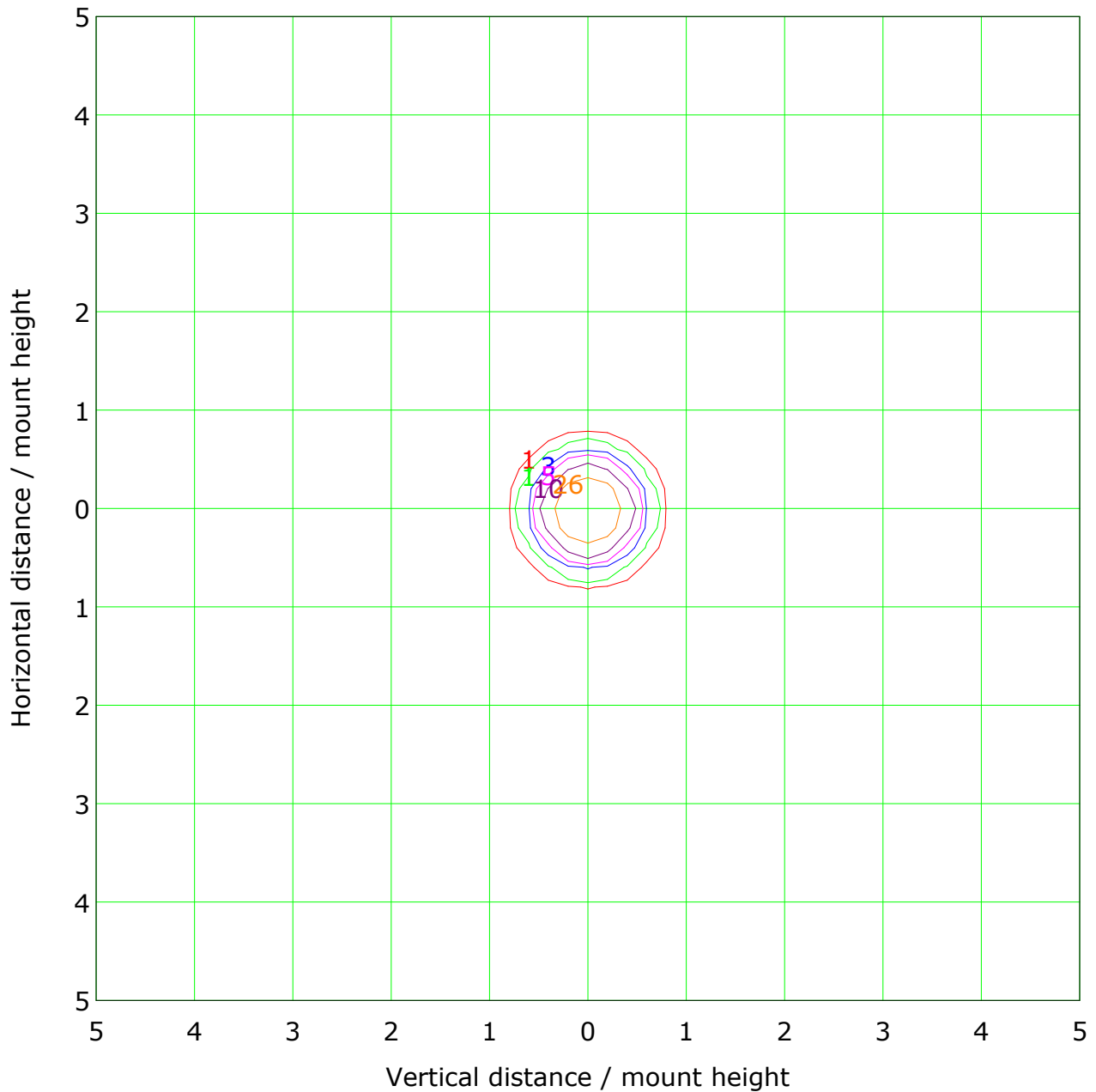
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

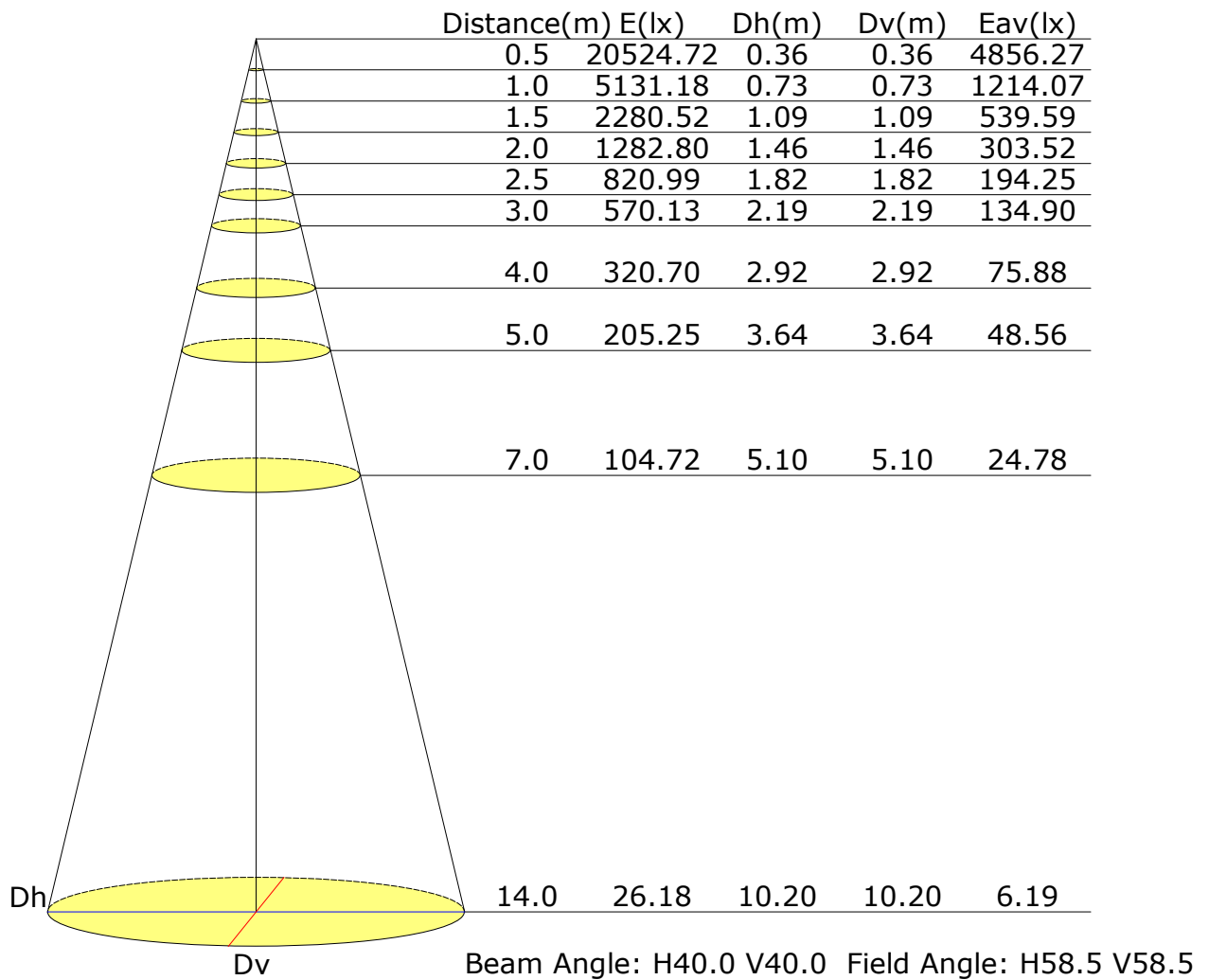


Mounting Height: 10m Max Lux(100%): 52 lx			
— (1%):	1 lx	— (2%):	1 lx
— (5%):	3 lx	— (10%):	5 lx
— (20%):	10 lx	— (50%):	26 lx
— (100%):	52 lx		

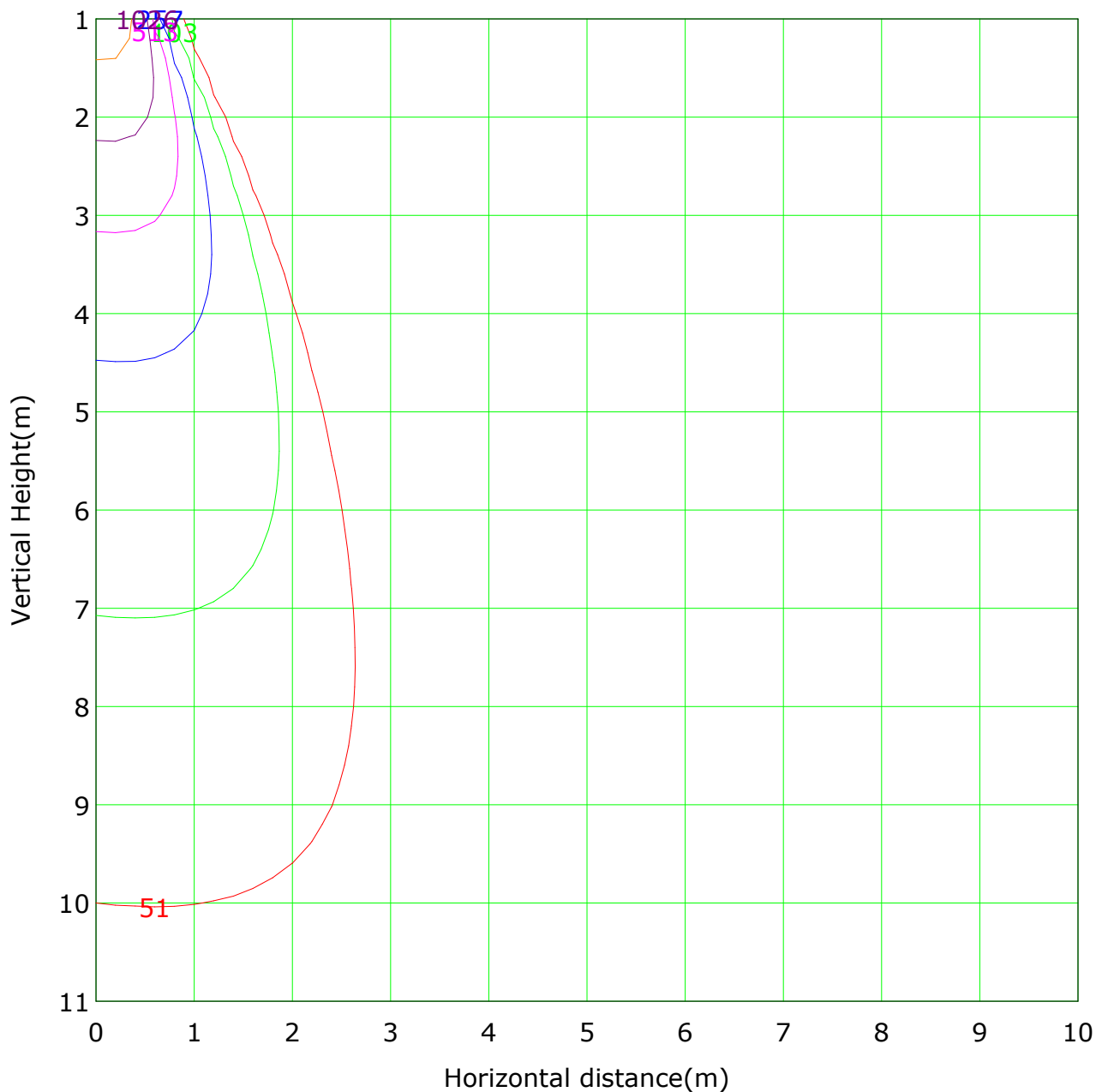
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



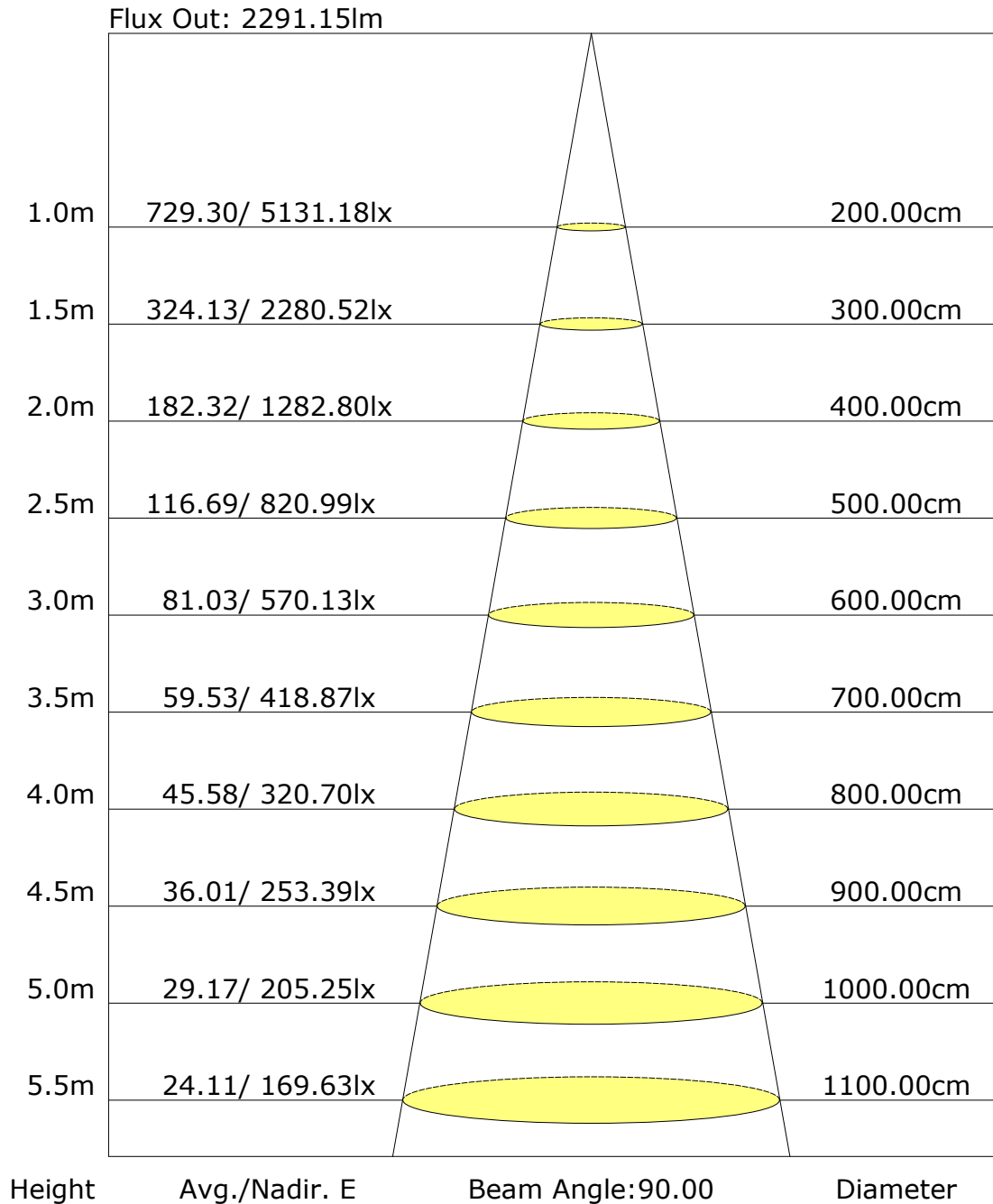
Lowest(m): 1m Highest(m): 11 Max Lux: 5131

(1%): 51 lx	(2%): 103 lx
(5%): 257 lx	(10%): 513 lx
(20%): 1026 lx	(50%): 2566 lx
(100%): 5131 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	5131.5	4.9	4.9	0.21	0.21
1.0-2.0	5129.6	14.7	19.6	0.63	0.84
2.0-3.0	5124.6	24.5	44.1	1.05	1.89
3.0-4.0	5114.4	34.2	78.4	1.47	3.36
4.0-5.0	5095.3	43.8	122.2	1.88	5.23
5.0-6.0	5068.9	53.3	175.5	2.28	7.51
6.0-7.0	5032.4	62.5	238.0	2.67	10.19
7.0-8.0	4984.7	71.3	309.3	3.05	13.24
8.0-9.0	4923.3	79.8	389.1	3.42	16.66
9.0-10.0	4845.4	87.7	476.8	3.75	20.41
10.0-11.0	4749.1	94.9	571.7	4.06	24.47
11.0-12.0	4630.7	101.2	673.0	4.33	28.81
12.0-13.0	4488.9	106.5	779.5	4.56	33.37
13.0-14.0	4321.8	110.6	890.1	4.74	38.10
14.0-15.0	4126.1	113.3	1003.4	4.85	42.95
15.0-16.0	3901.7	114.3	1117.8	4.89	47.85
16.0-17.0	3649.2	113.7	1231.4	4.87	52.71
17.0-18.0	3373.4	111.2	1342.7	4.76	57.48
18.0-19.0	3080.5	107.2	1449.9	4.59	62.06
19.0-20.0	2776.9	101.6	1551.5	4.35	66.42
20.0-21.0	2472.1	94.9	1646.5	4.06	70.48
21.0-22.0	2173.8	87.4	1733.8	3.74	74.22
22.0-23.0	1887.4	79.2	1813.0	3.39	77.61
23.0-24.0	1618.8	70.8	1883.8	3.03	80.64
24.0-25.0	1370.7	62.3	1946.1	2.67	83.31
25.0-26.0	1145.7	54.1	2000.2	2.32	85.62
26.0-27.0	946.8	46.3	2046.6	1.98	87.61
27.0-28.0	772.9	39.1	2085.7	1.68	89.28
28.0-29.0	625.5	32.7	2118.4	1.40	90.68
29.0-30.0	502.7	27.1	2145.6	1.16	91.85
30.0-31.0	403.3	22.4	2168.0	0.96	92.81
31.0-32.0	324.4	18.6	2186.6	0.80	93.60
32.0-33.0	262.7	15.5	2202.1	0.66	94.27
33.0-34.0	216.3	13.1	2215.2	0.56	94.83
34.0-35.0	180.5	11.2	2226.4	0.48	95.31
35.0-36.0	153.0	9.7	2236.1	0.42	95.72

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	131.8	8.6	2244.7	0.37	96.09
37.0-38.0	114.7	7.7	2252.4	0.33	96.42
38.0-39.0	101.6	6.9	2259.3	0.30	96.72
39.0-40.0	90.1	6.3	2265.6	0.27	96.98
40.0-41.0	81.0	5.8	2271.4	0.25	97.23
41.0-42.0	74.8	5.4	2276.8	0.23	97.46
42.0-43.0	68.6	5.1	2281.9	0.22	97.68
43.0-44.0	63.0	4.8	2286.6	0.20	97.89
44.0-45.0	58.6	4.5	2291.2	0.19	98.08
45.0-46.0	54.2	4.2	2295.4	0.18	98.26
46.0-47.0	51.1	4.1	2299.5	0.17	98.43
47.0-48.0	48.6	3.9	2303.4	0.17	98.60
48.0-49.0	45.8	3.8	2307.2	0.16	98.76
49.0-50.0	43.0	3.6	2310.7	0.15	98.92
50.0-51.0	39.9	3.4	2314.1	0.14	99.06
51.0-52.0	37.4	3.2	2317.3	0.14	99.20
52.0-53.0	34.6	3.0	2320.3	0.13	99.33
53.0-54.0	31.2	2.7	2323.1	0.12	99.44
54.0-55.0	27.7	2.5	2325.6	0.11	99.55
55.0-56.0	24.9	2.3	2327.8	0.10	99.65
56.0-57.0	21.5	2.0	2329.8	0.08	99.73
57.0-58.0	17.5	1.6	2331.4	0.07	99.80
58.0-59.0	13.7	1.3	2332.7	0.05	99.86
59.0-60.0	11.2	1.1	2333.7	0.05	99.90
60.0-61.0	8.7	0.8	2334.6	0.04	99.94
61.0-62.0	5.9	0.6	2335.1	0.02	99.96
62.0-63.0	4.7	0.5	2335.6	0.02	99.98
63.0-64.0	3.1	0.3	2335.9	0.01	99.99
64.0-65.0	1.2	0.1	2336.0	0.01	100.00
65.0-66.0	0.3	0.0	2336.1	0.00	100.00
66.0-67.0	0.0	0.0	2336.1	0.00	100.00
67.0-68.0	0.0	0.0	2336.1	0.00	100.00
68.0-69.0	0.0	0.0	2336.1	0.00	100.00
69.0-70.0	0.0	0.0	2336.1	0.00	100.00
70.0-71.0	0.0	0.0	2336.1	0.00	100.00
71.0-72.0	0.0	0.0	2336.1	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	5131.2	5131.2								
G1.0	5156.1	5107.5								
G2.0	5168.6	5086.3								
G3.0	5183.5	5060.1								
G4.0	5197.3	5016.5								
G5.0	5198.5	4969.1								
G6.0	5197.3	4910.5								
G7.0	5182.3	4839.5								
G8.0	5161.1	4755.9								
G9.0	5122.5	4653.7								
G10.0	5071.3	4534.0								
G11.0	5000.3	4390.7								
G12.0	4910.5	4221.1								
G13.0	4789.6	4034.1								
G14.0	4640.0	3823.4								
G15.0	4451.8	3589.1								
G16.0	4234.9	3331.0								
G17.0	3973.1	3058.0								
G18.0	3687.6	2775.0								
G19.0	3373.4	2485.8								
G20.0	3043.1	2205.3								
G21.0	2705.2	1934.8								
G22.0	2374.9	1680.5								
G23.0	2050.7	1443.6								
G24.0	1756.5	1224.2								
G25.0	1483.5	1018.5								
G26.0	1239.2	841.5								
G27.0	1022.3	684.4								
G28.0	836.5	548.5								
G29.0	676.9	440.1								
G30.0	541.0	352.8								
G31.0	435.1	284.2								
G32.0	349.1	229.4								
G33.0	283.0	189.5								
G34.0	235.6	157.1								
G35.0	194.5	134.6								
G36.0	165.8	117.2								

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	142.1	102.2								
G38.0	124.7	89.8								
G39.0	109.7	82.3								
G40.0	96.0	72.3								
G41.0	88.5	67.3								
G42.0	79.8	63.6								
G43.0	73.6	57.3								
G44.0	67.3	53.6								
G45.0	62.3	51.1								
G46.0	57.3	46.1								
G47.0	56.1	44.9								
G48.0	51.1	42.4								
G49.0	49.9	39.9								
G50.0	44.9	37.4								
G51.0	42.4	34.9								
G52.0	39.9	32.4								
G53.0	37.4	28.7								
G54.0	34.9	23.7								
G55.0	29.9	22.4								
G56.0	28.7	18.7								
G57.0	23.7	15.0								
G58.0	20.0	11.2								
G59.0	16.2	7.5								
G60.0	15.0	6.2								
G61.0	10.0	3.7								
G62.0	8.7	1.3								
G63.0	6.2	2.5								
G64.0	3.7	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:

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: