

Report No.: 52.09531 Intero Recessed
Downlight

Test Time: 2024-10-13 17:28

Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.184 A

Power Factor: 0.983

Voltage: 232.0 V

Power: 42.20 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4755.3 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H31.6

Vertical Diffuse Angle(50%): V31.6

Luminaire Efficacy Rating (LER): 113

Max. Intensity: 15457.13 cd

Total Rated Lamp Lumens: 4755.3 lm

Efficiency: 100%

Upward Ratio: 0%

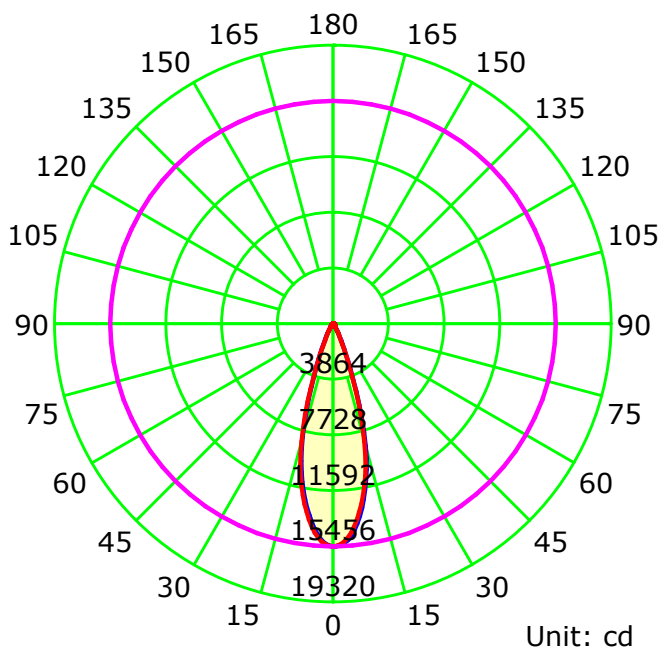
Central Intensity: 15457.13 cd

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

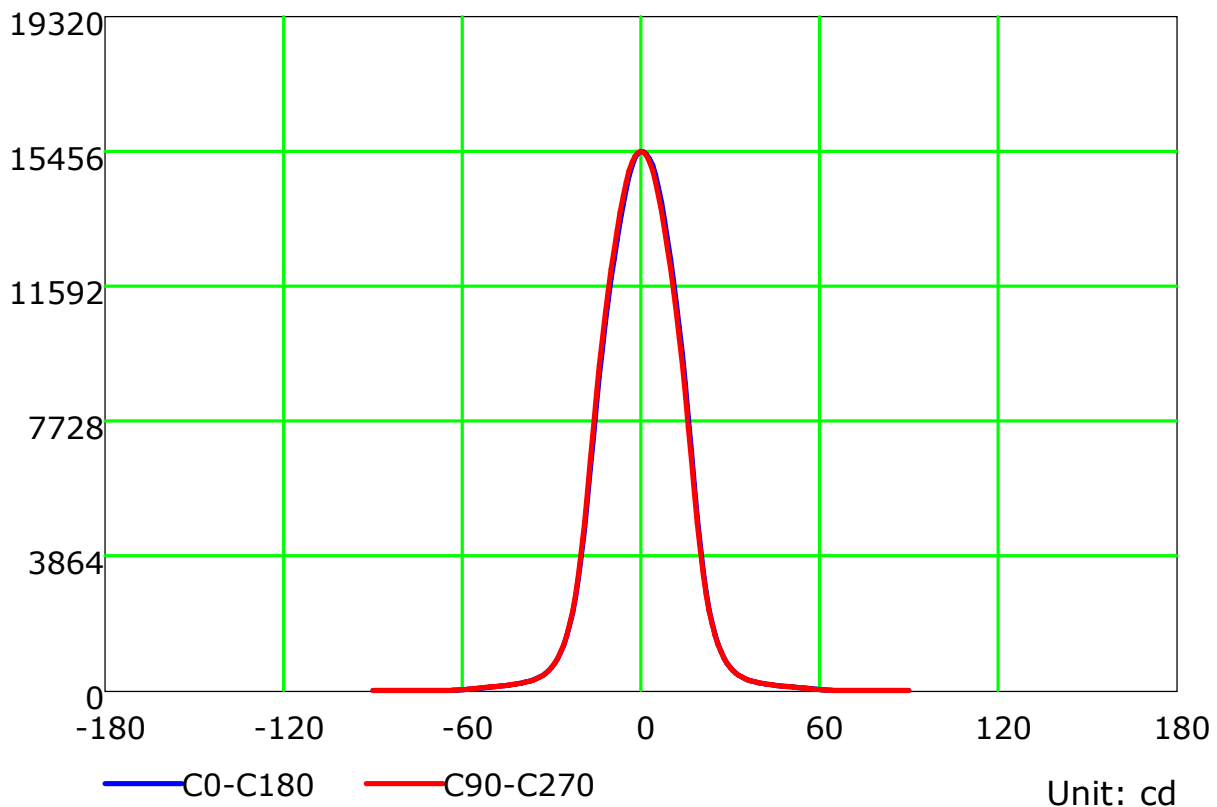
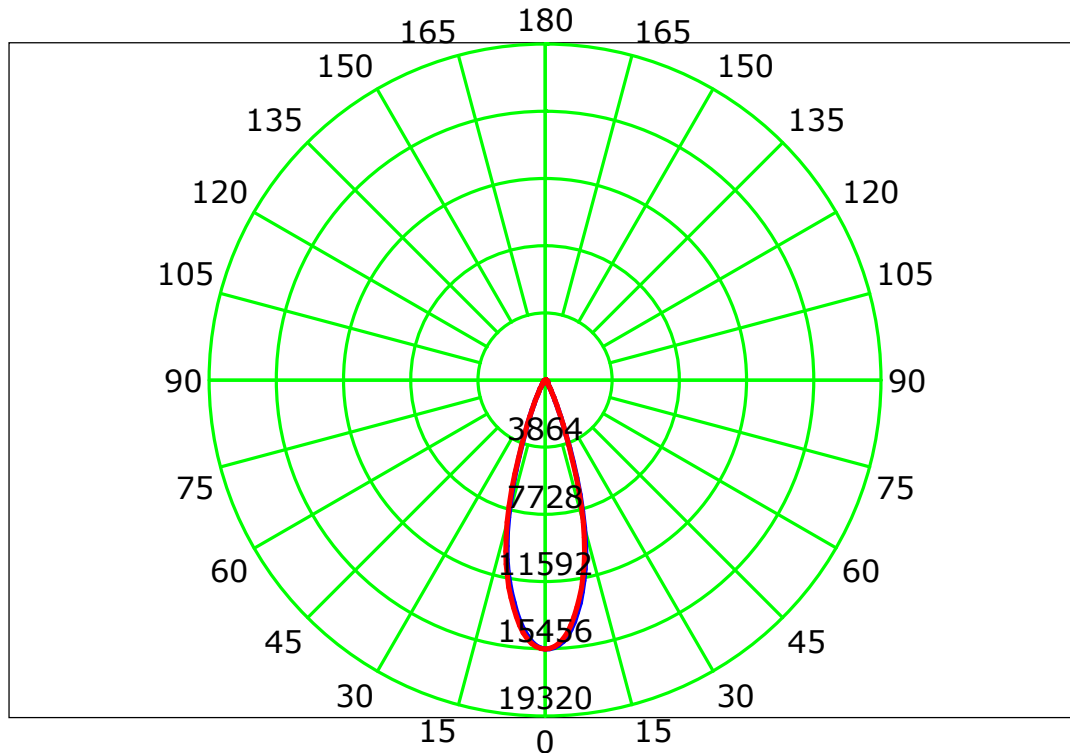
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

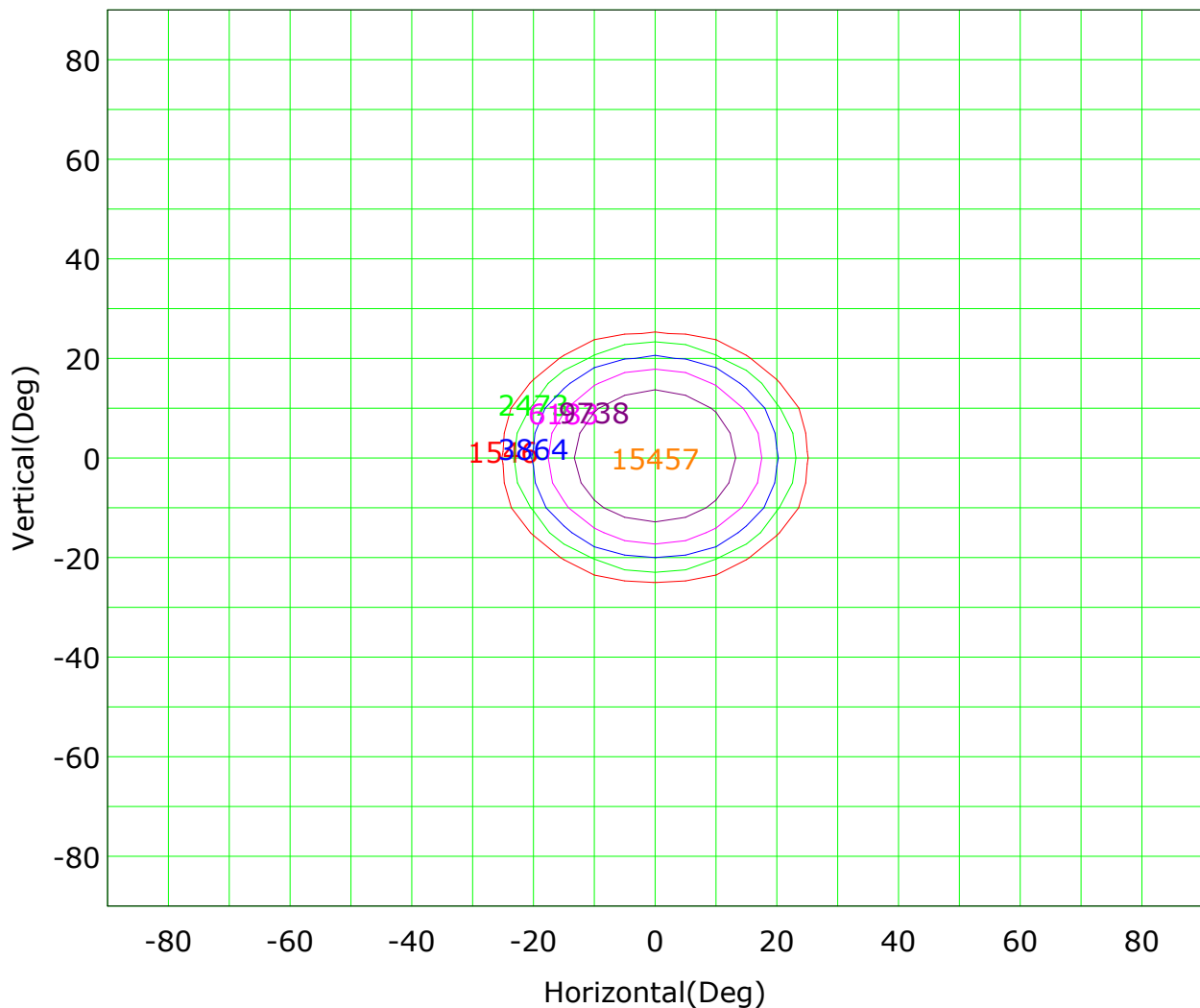


Unit: cd

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:

Isocandela (rectangle)



Imax (100%): 15457 cd

(10%): 1546 cd	(16%): 2473 cd
(25%): 3864 cd	(40%): 6183 cd
(63%): 9738 cd	(100%): 15457 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

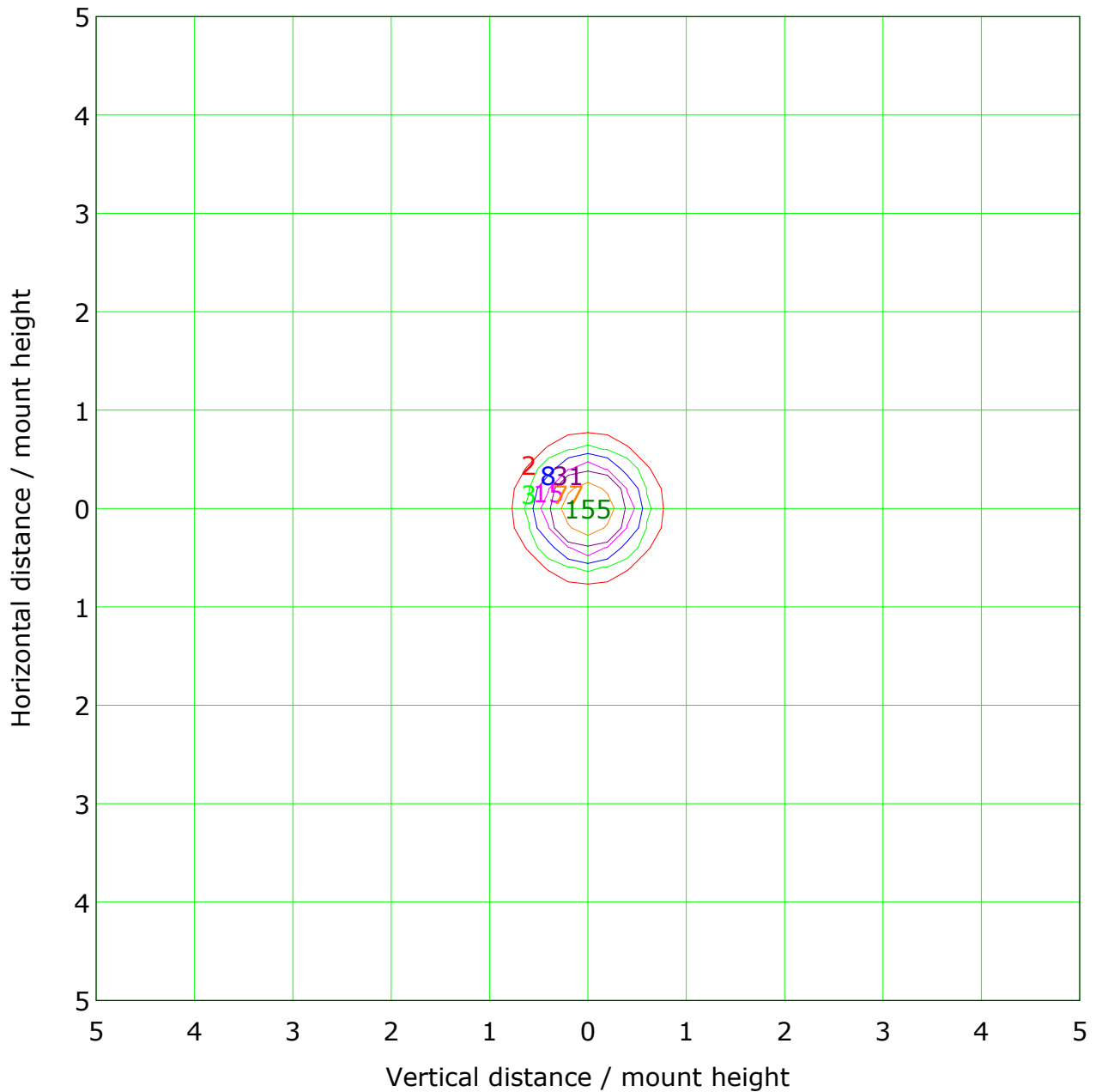
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10m		Max Lux(100%): 155 lx	
— (1%):	2 lx	— (2%):	3 lx
— (5%):	8 lx	— (10%):	15 lx
— (20%):	31 lx	— (50%):	77 lx
— (100%):	155 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

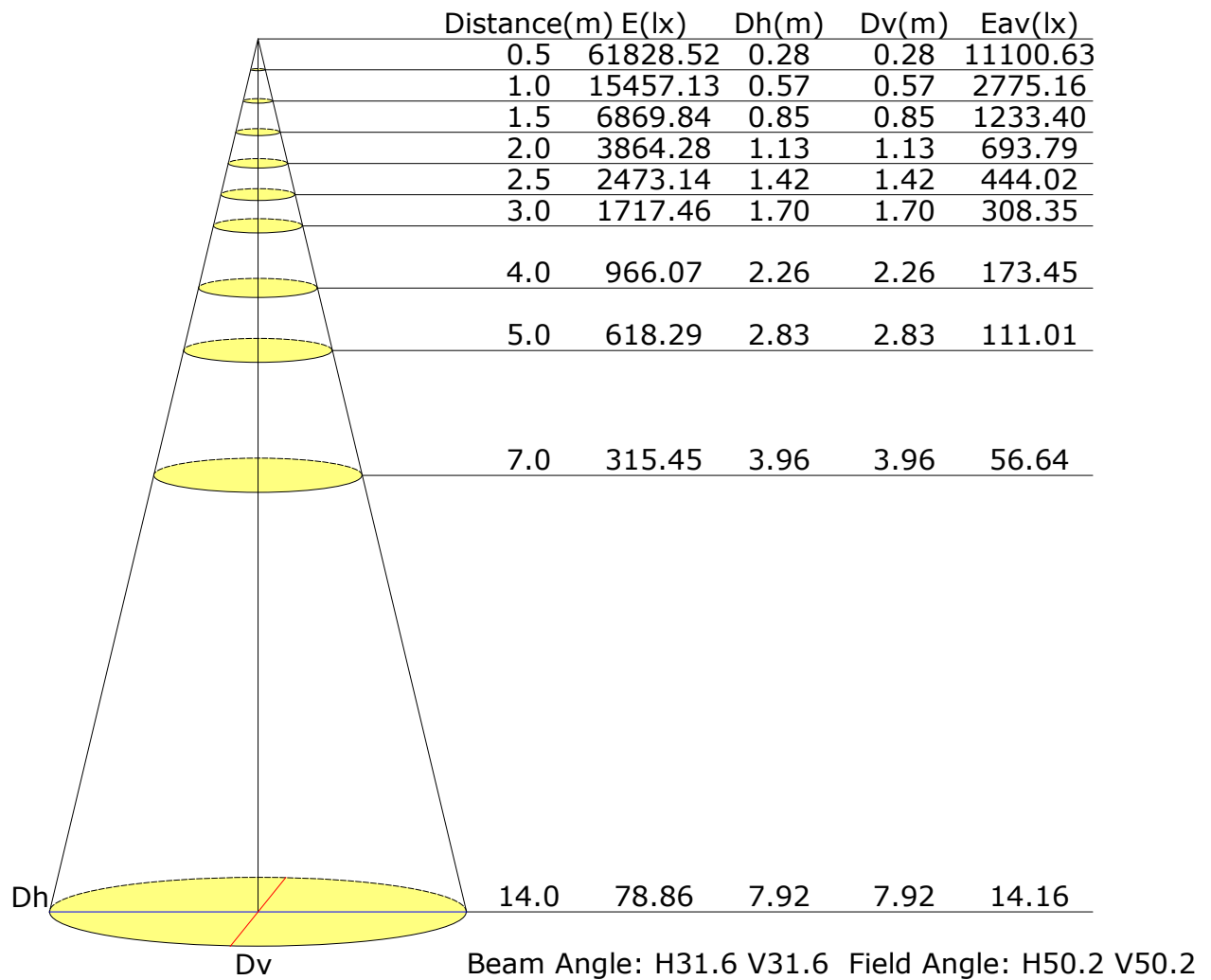
Test Device: CHL-6E

Distance: 3.328 m

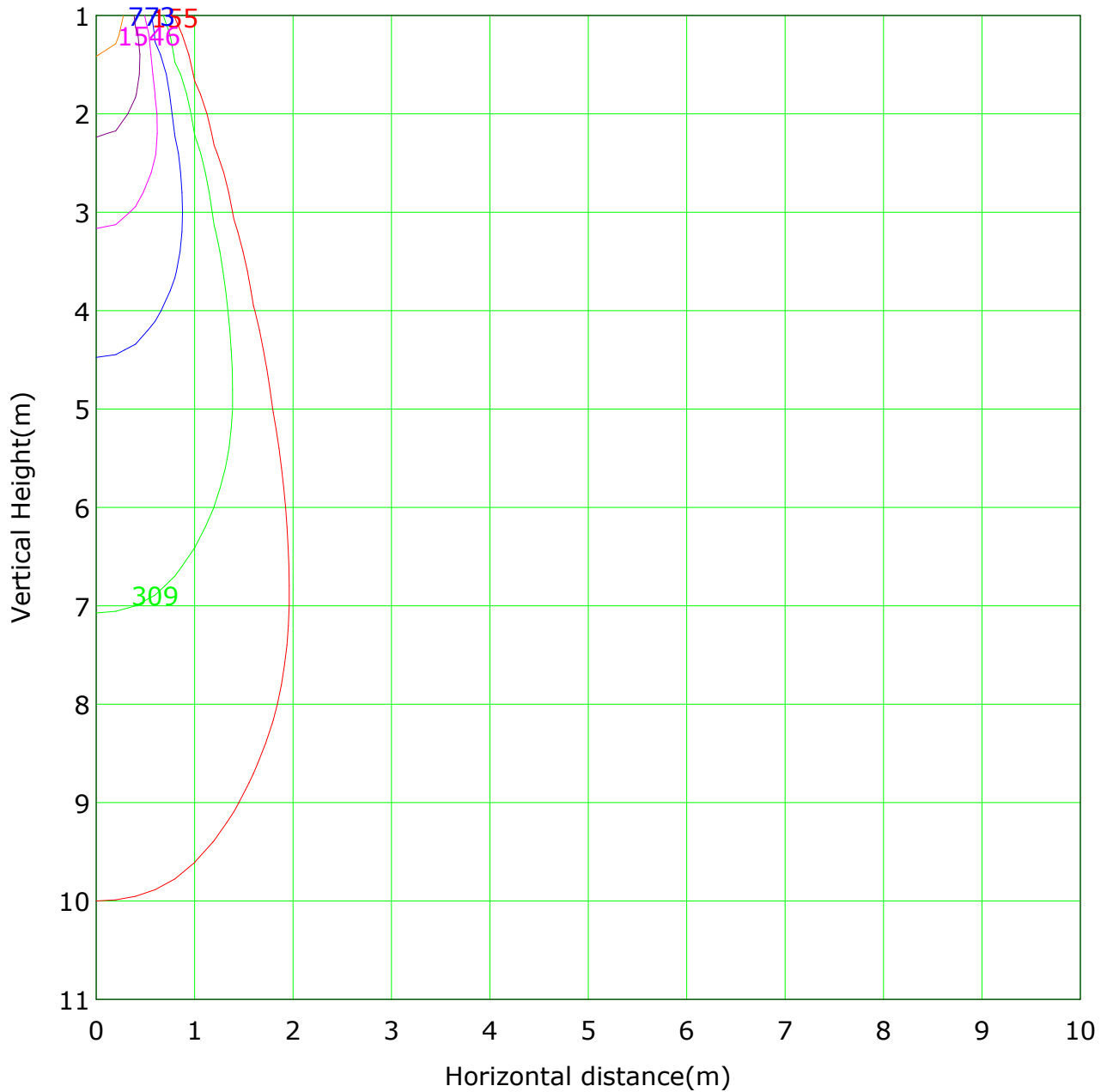
Humidity:

Inspector:

Illuminance at a Distance

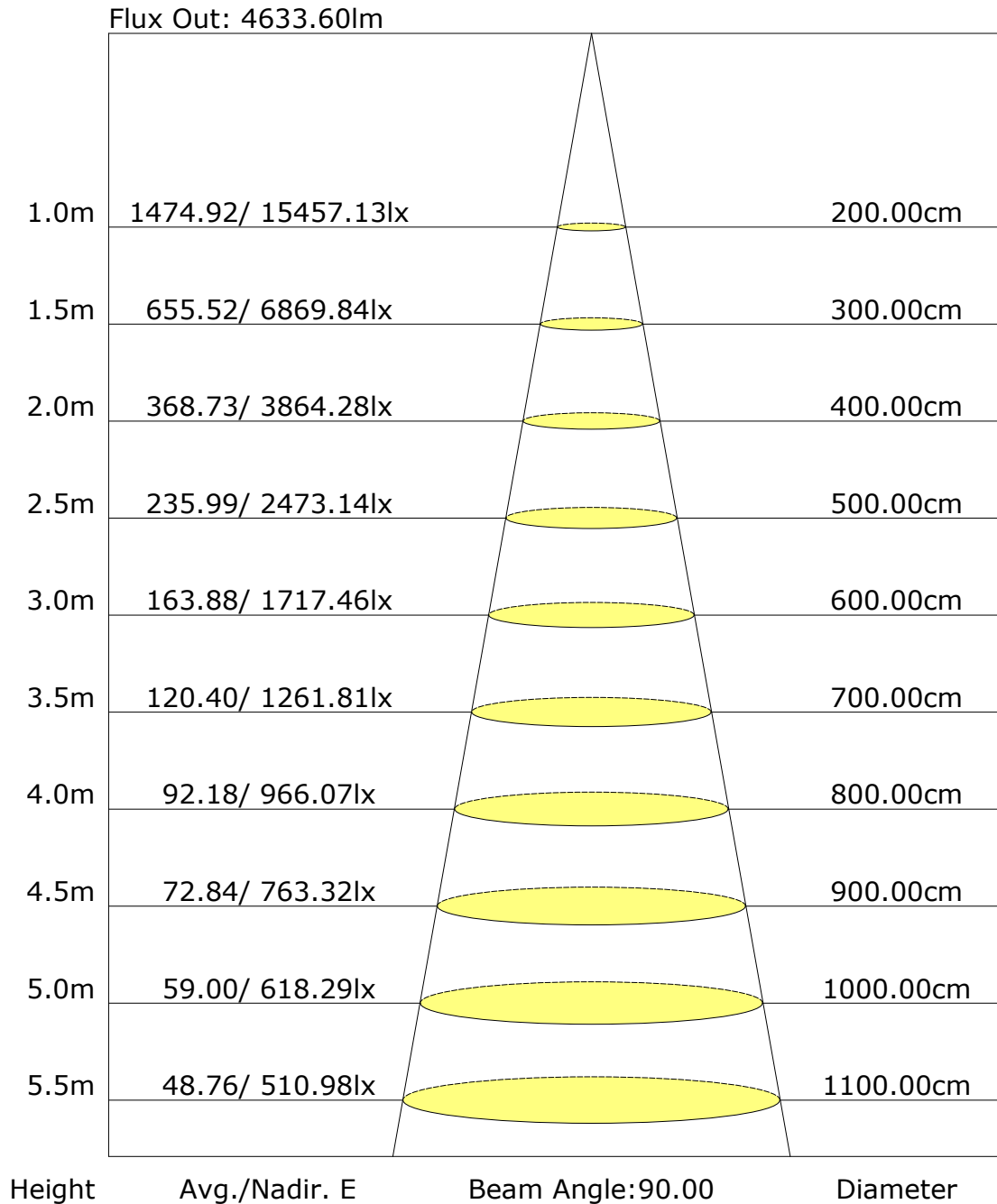


Vertical IsoLux Plot



Lowest(m): 1m Highest(m): 11 Max Lux: 15457
— (1%): 155 lx — (2%): 309 lx
— (5%): 773 lx — (10%): 1546 lx
— (20%): 3091 lx — (50%): 7729 lx
— (100%): 15457 lx

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	15440.3	14.8	14.8	0.31	0.31
1.0-2.0	15377.0	44.1	58.9	0.93	1.24
2.0-3.0	15243.0	72.9	131.8	1.53	2.77
3.0-4.0	15033.0	100.6	232.5	2.12	4.89
4.0-5.0	14742.5	126.8	359.3	2.67	7.56
5.0-6.0	14374.1	151.1	510.4	3.18	10.73
6.0-7.0	13944.0	173.1	683.5	3.64	14.37
7.0-8.0	13459.4	192.7	876.1	4.05	18.42
8.0-9.0	12934.9	209.7	1085.8	4.41	22.83
9.0-10.0	12377.0	224.0	1309.8	4.71	27.54
10.0-11.0	11780.2	235.4	1545.2	4.95	32.50
11.0-12.0	11145.9	243.7	1788.9	5.12	37.62
12.0-13.0	10462.1	248.3	2037.2	5.22	42.84
13.0-14.0	9714.2	248.7	2285.9	5.23	48.07
14.0-15.0	8898.9	244.3	2530.3	5.14	53.21
15.0-16.0	8014.7	234.9	2765.1	4.94	58.15
16.0-17.0	7082.8	220.6	2985.7	4.64	62.79
17.0-18.0	6147.8	202.7	3188.5	4.26	67.05
18.0-19.0	5244.3	182.5	3370.9	3.84	70.89
19.0-20.0	4405.9	161.3	3532.2	3.39	74.28
20.0-21.0	3668.2	140.9	3673.1	2.96	77.24
21.0-22.0	3039.3	122.2	3795.2	2.57	79.81
22.0-23.0	2513.9	105.5	3900.7	2.22	82.03
23.0-24.0	2084.7	91.2	3991.9	1.92	83.95
24.0-25.0	1734.4	78.9	4070.8	1.66	85.61
25.0-26.0	1446.1	68.3	4139.0	1.44	87.04
26.0-27.0	1209.6	59.2	4198.2	1.24	88.29
27.0-28.0	1014.1	51.4	4249.6	1.08	89.37
28.0-29.0	854.0	44.7	4294.3	0.94	90.31
29.0-30.0	724.6	39.1	4333.4	0.82	91.13
30.0-31.0	619.9	34.5	4367.9	0.73	91.85
31.0-32.0	536.1	30.7	4398.6	0.65	92.50
32.0-33.0	468.1	27.6	4426.2	0.58	93.08
33.0-34.0	413.0	25.0	4451.2	0.53	93.61
34.0-35.0	368.1	22.9	4474.0	0.48	94.09
35.0-36.0	329.1	21.0	4495.0	0.44	94.53

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	296.7	19.4	4514.4	0.41	94.93
37.0-38.0	270.5	18.1	4532.4	0.38	95.31
38.0-39.0	248.7	17.0	4549.4	0.36	95.67
39.0-40.0	229.1	16.0	4565.4	0.34	96.01
40.0-41.0	211.9	15.1	4580.5	0.32	96.32
41.0-42.0	197.3	14.3	4594.8	0.30	96.63
42.0-43.0	183.3	13.6	4608.4	0.29	96.91
43.0-44.0	171.1	12.9	4621.3	0.27	97.18
44.0-45.0	160.2	12.3	4633.6	0.26	97.44
45.0-46.0	149.6	11.7	4645.3	0.25	97.69
46.0-47.0	139.6	11.1	4656.4	0.23	97.92
47.0-48.0	130.6	10.6	4667.0	0.22	98.14
48.0-49.0	122.5	10.1	4677.0	0.21	98.35
49.0-50.0	114.4	9.5	4686.6	0.20	98.56
50.0-51.0	106.0	9.0	4695.5	0.19	98.74
51.0-52.0	97.9	8.4	4703.9	0.18	98.92
52.0-53.0	89.4	7.8	4711.7	0.16	99.08
53.0-54.0	80.4	7.1	4718.8	0.15	99.23
54.0-55.0	71.4	6.4	4725.2	0.13	99.37
55.0-56.0	62.6	5.7	4730.8	0.12	99.49
56.0-57.0	54.9	5.0	4735.8	0.11	99.59
57.0-58.0	47.1	4.4	4740.2	0.09	99.68
58.0-59.0	39.0	3.6	4743.8	0.08	99.76
59.0-60.0	31.5	3.0	4746.8	0.06	99.82
60.0-61.0	25.6	2.4	4749.3	0.05	99.87
61.0-62.0	19.9	1.9	4751.2	0.04	99.91
62.0-63.0	15.0	1.5	4752.6	0.03	99.94
63.0-64.0	10.6	1.0	4753.7	0.02	99.97
64.0-65.0	7.2	0.7	4754.4	0.01	99.98
65.0-66.0	5.0	0.5	4754.9	0.01	99.99
66.0-67.0	2.8	0.3	4755.2	0.01	100.00
67.0-68.0	0.9	0.1	4755.3	0.00	100.00
68.0-69.0	0.0	0.0	4755.3	0.00	100.00
69.0-70.0	0.0	0.0	4755.3	0.00	100.00
70.0-71.0	0.0	0.0	4755.3	0.00	100.00
71.0-72.0	0.0	0.0	4755.3	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	15457.1	15457.1								
G1.0	15440.9	15406.0								
G2.0	15373.6	15287.6								
G3.0	15248.9	15061.9								
G4.0	15066.9	14754.0								
G5.0	14781.5	14367.6								
G6.0	14411.2	13936.2								
G7.0	13982.3	13446.3								
G8.0	13483.7	12925.2								
G9.0	12947.6	12382.9								
G10.0	12364.2	11813.2								
G11.0	11745.9	11197.3								
G12.0	11102.6	10537.9								
G13.0	10408.2	9799.9								
G14.0	9640.3	9008.2								
G15.0	8787.6	8159.3								
G16.0	7852.6	7259.2								
G17.0	6871.5	6347.9								
G18.0	5907.8	5464.0								
G19.0	4989.1	4616.3								
G20.0	4151.3	3867.1								
G21.0	3432.0	3222.6								
G22.0	2824.9	2677.8								
G23.0	2325.0	2227.8								
G24.0	1924.8	1861.2								
G25.0	1599.4	1552.1								
G26.0	1331.4	1301.5								
G27.0	1113.3	1092.1								
G28.0	931.2	920.0								
G29.0	784.1	780.4								
G30.0	665.7	668.2								
G31.0	571.0	574.7								
G32.0	498.7	499.9								
G33.0	435.1	438.8								
G34.0	389.0	389.0								
G35.0	345.3	349.1								
G36.0	309.2	312.9								

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	280.5	284.2								
G38.0	258.1	259.3								
G39.0	238.1	239.4								
G40.0	219.4	219.4								
G41.0	204.4	204.4								
G42.0	190.7	189.5								
G43.0	177.0	175.8								
G44.0	168.3	163.3								
G45.0	155.8	153.3								
G46.0	144.6	144.6								
G47.0	134.6	134.6								
G48.0	128.4	124.7								
G49.0	120.9	115.9								
G50.0	114.7	106.0								
G51.0	104.7	98.5								
G52.0	98.5	89.8								
G53.0	89.8	79.8								
G54.0	81.0	71.1								
G55.0	73.6	59.8								
G56.0	64.8	52.4								
G57.0	57.3	44.9								
G58.0	48.6	37.4								
G59.0	39.9	29.9								
G60.0	32.4	23.7								
G61.0	27.4	18.7								
G62.0	20.0	13.7								
G63.0	16.2	10.0								
G64.0	11.2	5.0								
G65.0	8.7	3.7								
G66.0	6.2	1.3								
G67.0	3.7	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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Temperature:

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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: