

Report No.:55.05016 Mine Recessed
Downlight

Test Time: 2024-09-29 20:09

Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.092 A

Power Factor: 0.942

Voltage: 228.9 V

Power: 20.00 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1748.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H23.4

Vertical Diffuse Angle(50%): V23.4

Luminaire Efficacy Rating (LER): 87

Max. Intensity: 7295.36 cd

Total Rated Lamp Lumens: 1748.7 lm

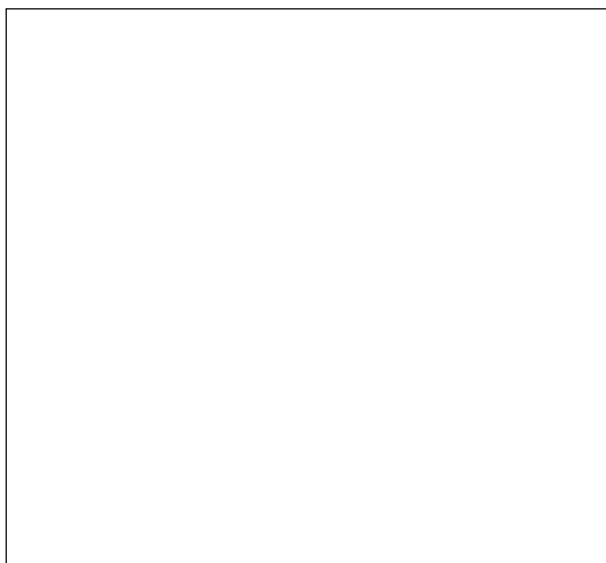
Efficiency: 100%

Upward Ratio: 0%

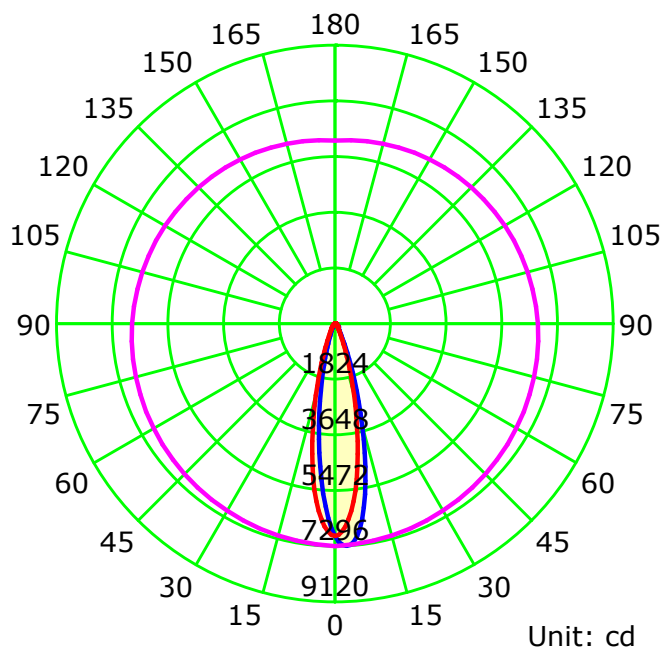
Central Intensity: 6956.27 cd

Pos of Max. Intensity: H0 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G3

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

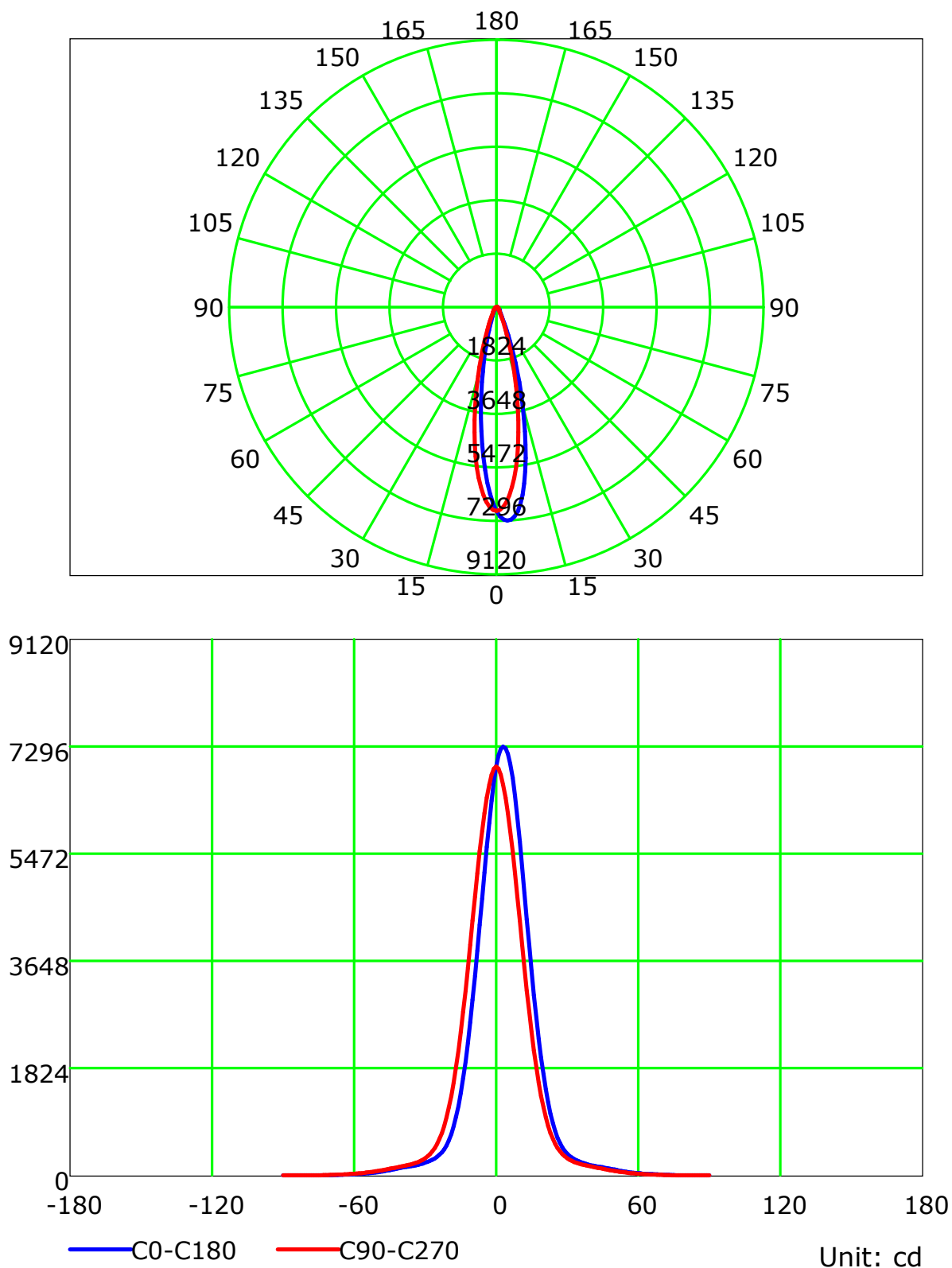
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

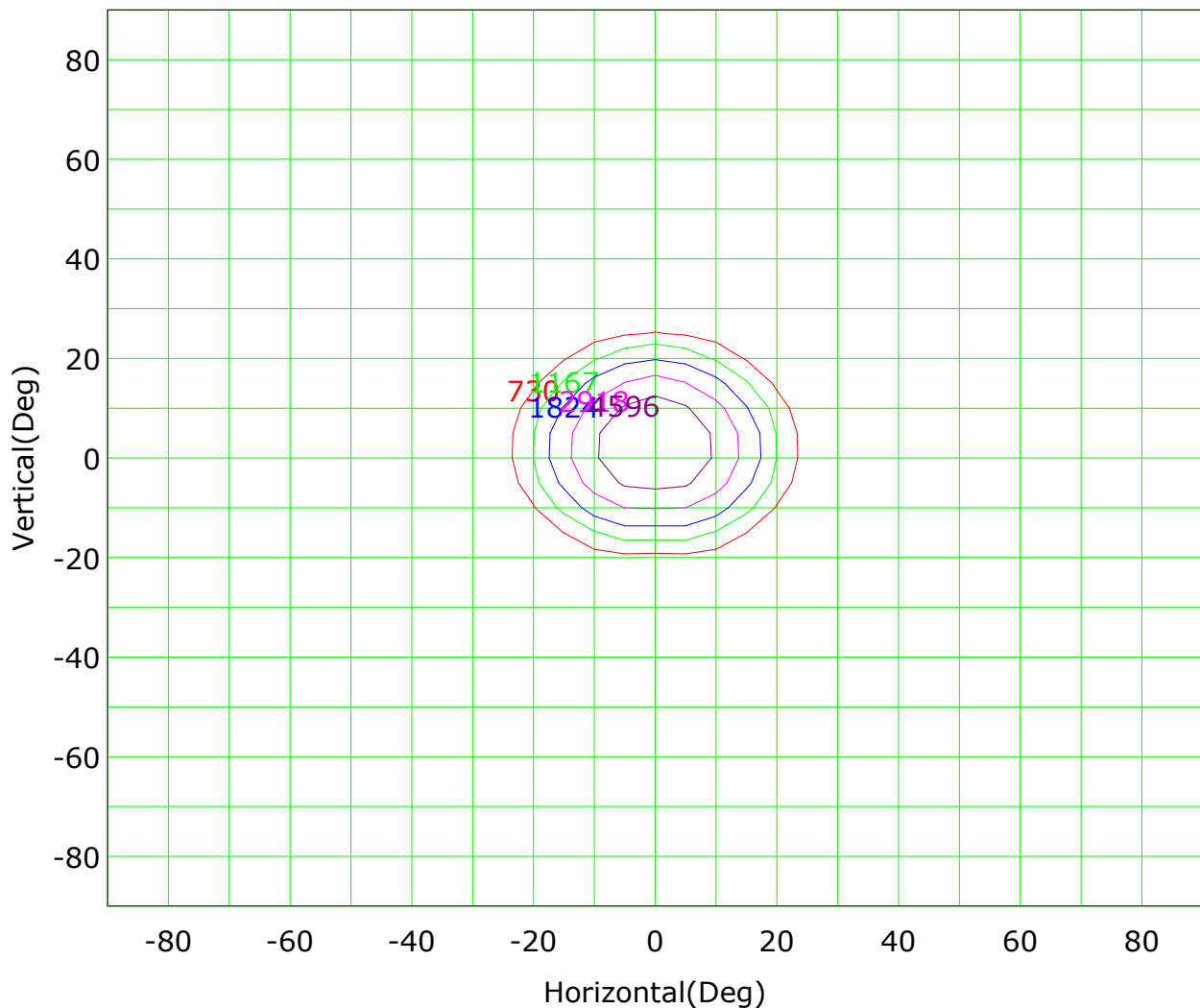
Luminous Intensity Distribution Curve



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%): 7295 cd

(10%): 730 cd	(16%): 1167 cd
(25%): 1824 cd	(40%): 2918 cd
(63%): 4596 cd	(100%): 7295 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

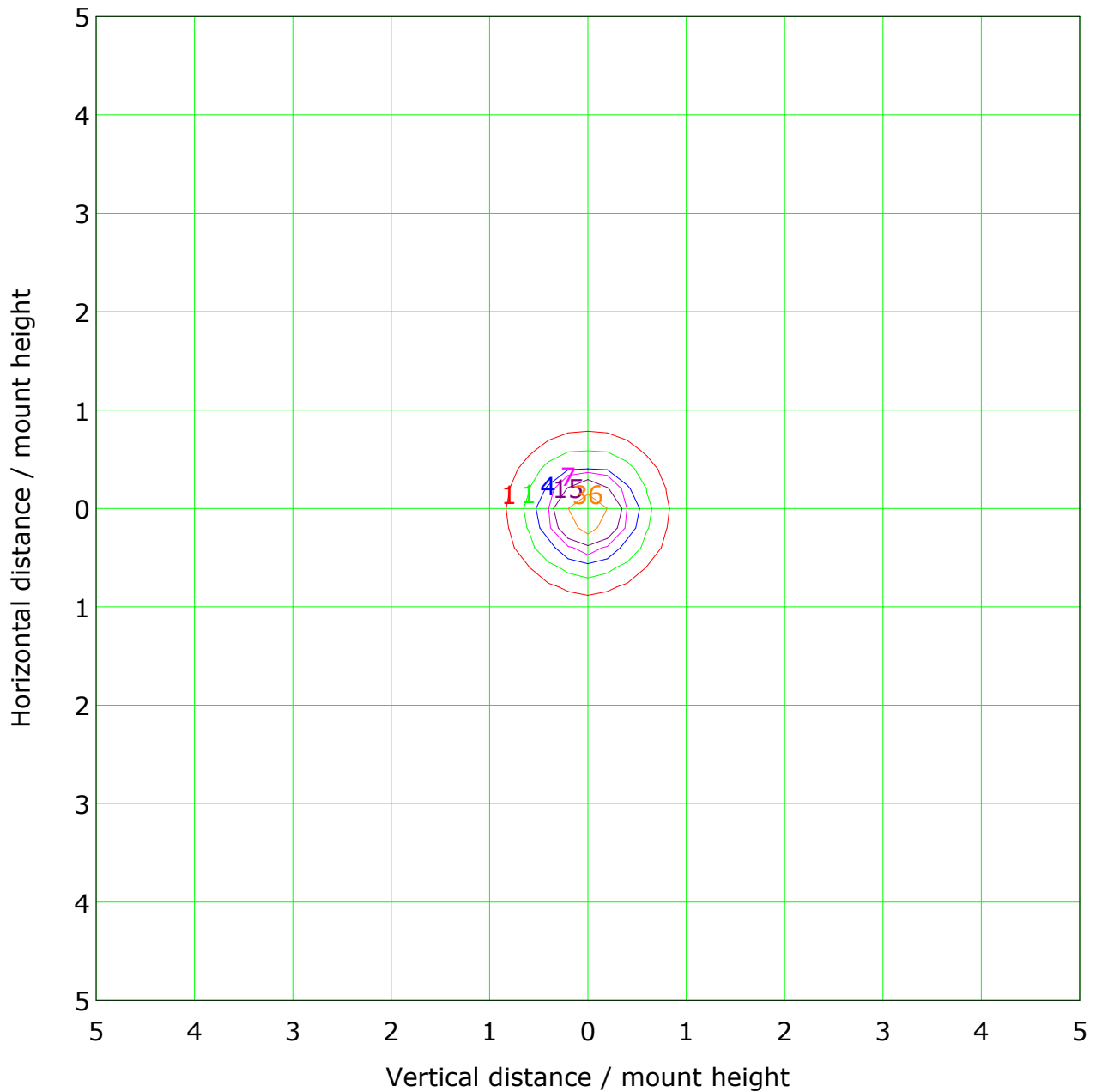
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

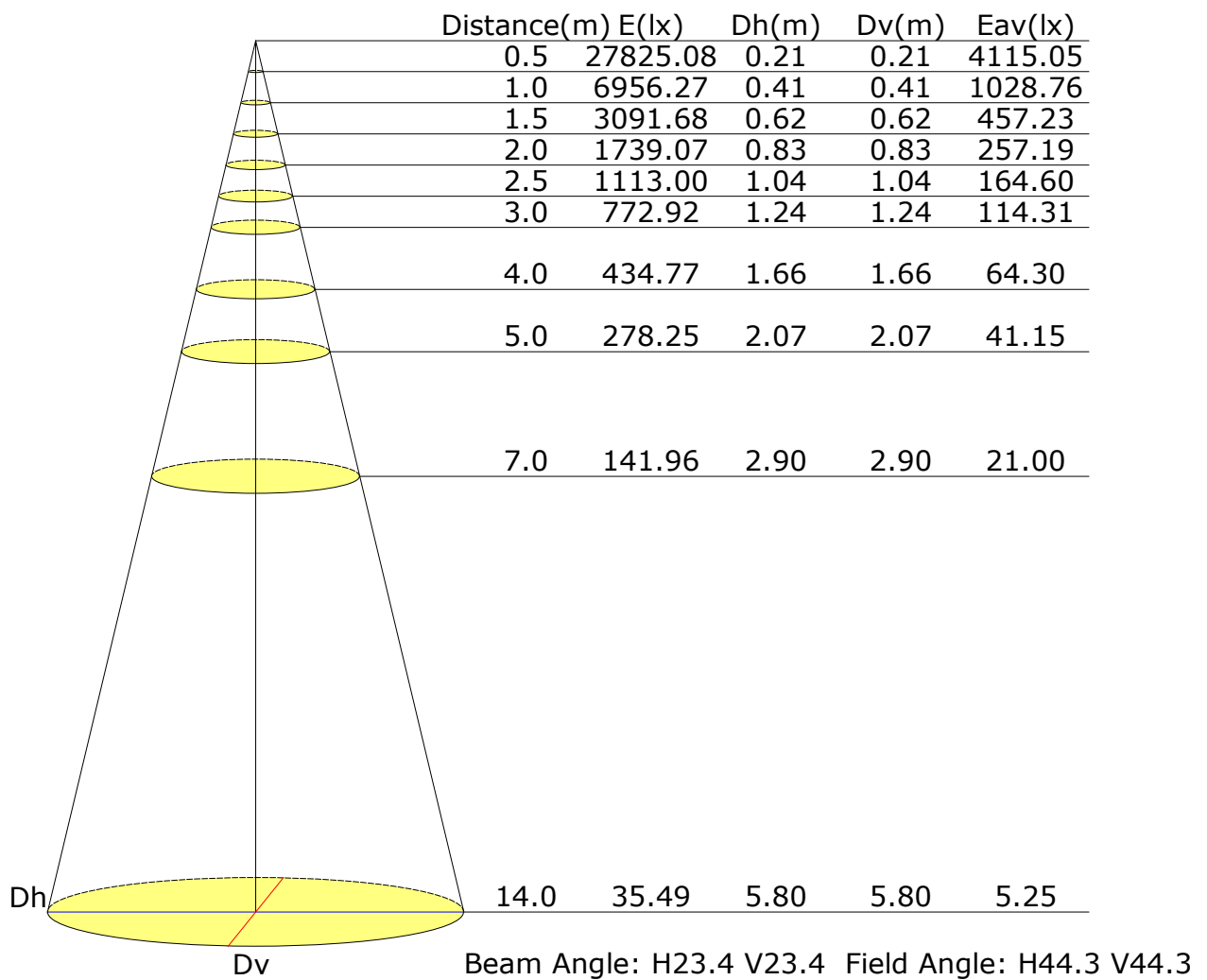


Mounting Height: 10m		Max Lux(100%): 73 lx	
(1%):	1 lx	(2%):	1 lx
(5%):	4 lx	(10%):	7 lx
(20%):	15 lx	(50%):	36 lx
(100%):	73 lx		

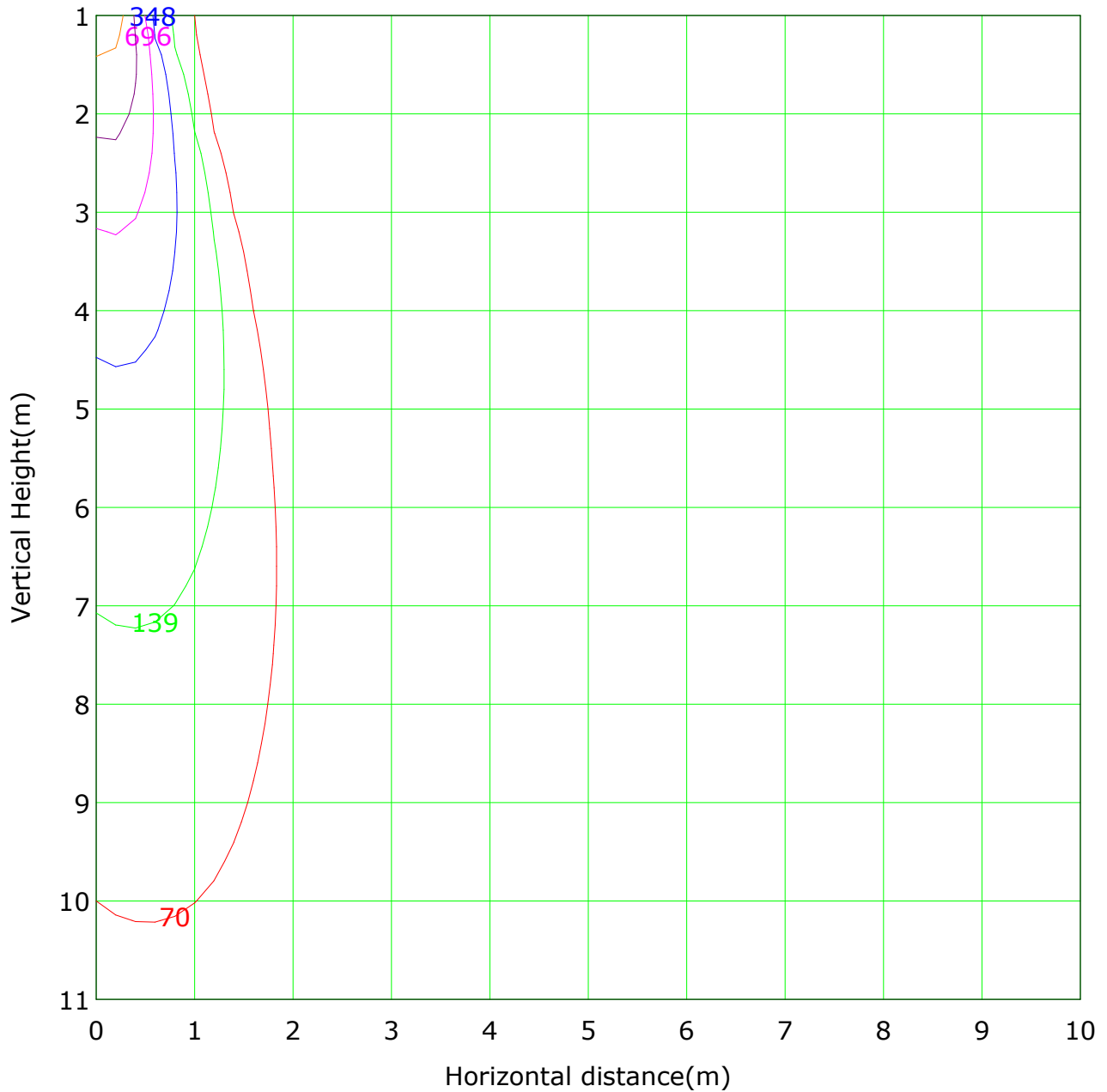
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



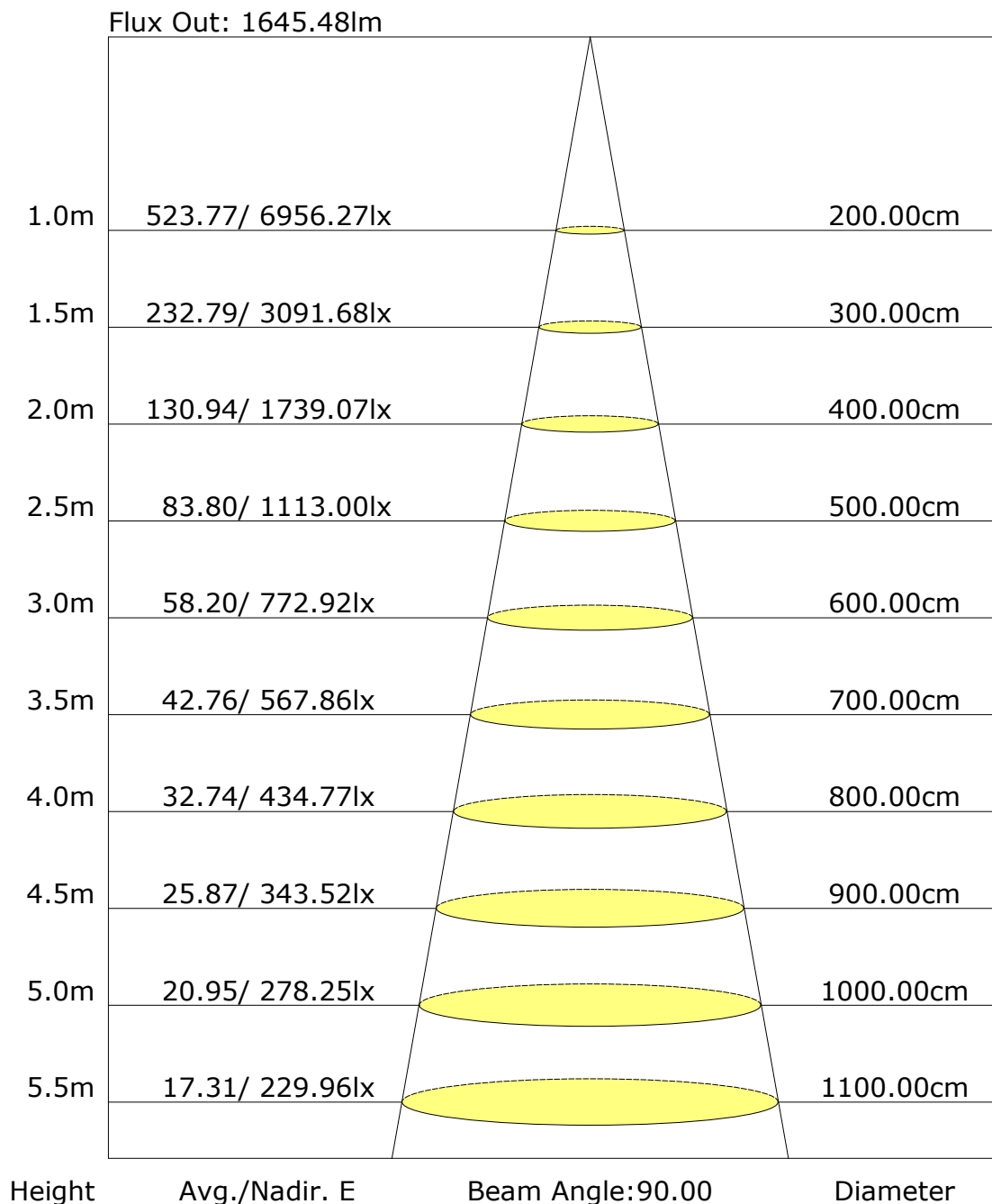
Lowest(m): 1m Highest(m): 11 Max Lux: 6956

(1%): 70 lx	(2%): 139 lx
(5%): 348 lx	(10%): 696 lx
(20%): 1391 lx	(50%): 3478 lx
(100%): 6956 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	6939.4	6.6	6.6	0.38	0.38
1.0-2.0	6869.0	19.7	26.4	1.13	1.51
2.0-3.0	6731.3	32.2	58.6	1.84	3.35
3.0-4.0	6536.5	43.8	102.3	2.50	5.85
4.0-5.0	6293.7	54.2	156.5	3.10	8.95
5.0-6.0	6009.4	63.2	219.6	3.61	12.56
6.0-7.0	5685.9	70.6	290.2	4.04	16.60
7.0-8.0	5327.8	76.3	366.5	4.36	20.96
8.0-9.0	4942.6	80.1	446.6	4.58	25.54
9.0-10.0	4539.0	82.2	528.7	4.70	30.24
10.0-11.0	4128.9	82.5	611.3	4.72	34.95
11.0-12.0	3725.6	81.5	692.7	4.66	39.61
12.0-13.0	3336.0	79.2	771.9	4.53	44.14
13.0-14.0	2963.9	75.9	847.8	4.34	48.48
14.0-15.0	2611.7	71.7	919.5	4.10	52.58
15.0-16.0	2282.3	66.9	986.4	3.82	56.40
16.0-17.0	1980.6	61.7	1048.0	3.53	59.93
17.0-18.0	1708.8	56.4	1104.4	3.22	63.15
18.0-19.0	1467.9	51.1	1155.5	2.92	66.07
19.0-20.0	1256.6	46.0	1201.5	2.63	68.71
20.0-21.0	1073.0	41.2	1242.7	2.36	71.06
21.0-22.0	916.3	36.8	1279.5	2.11	73.17
22.0-23.0	782.9	32.9	1312.4	1.88	75.05
23.0-24.0	670.4	29.3	1341.7	1.68	76.72
24.0-25.0	577.2	26.2	1367.9	1.50	78.22
25.0-26.0	499.3	23.6	1391.5	1.35	79.57
26.0-27.0	436.3	21.3	1412.8	1.22	80.79
27.0-28.0	385.8	19.5	1432.4	1.12	81.91
28.0-29.0	344.1	18.0	1450.4	1.03	82.94
29.0-30.0	309.5	16.7	1467.1	0.96	83.89
30.0-31.0	280.8	15.6	1482.7	0.89	84.79
31.0-32.0	257.7	14.8	1497.5	0.84	85.63
32.0-33.0	238.4	14.0	1511.5	0.80	86.44
33.0-34.0	221.9	13.4	1525.0	0.77	87.20
34.0-35.0	207.9	12.9	1537.9	0.74	87.94
35.0-36.0	195.4	12.4	1550.3	0.71	88.65

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	184.5	12.0	1562.4	0.69	89.34
37.0-38.0	175.2	11.7	1574.1	0.67	90.01
38.0-39.0	166.4	11.4	1585.4	0.65	90.66
39.0-40.0	157.1	11.0	1596.4	0.63	91.29
40.0-41.0	148.0	10.5	1606.9	0.60	91.89
41.0-42.0	140.2	10.2	1617.1	0.58	92.47
42.0-43.0	132.5	9.8	1626.9	0.56	93.03
43.0-44.0	125.3	9.5	1636.4	0.54	93.57
44.0-45.0	118.4	9.1	1645.5	0.52	94.10
45.0-46.0	110.6	8.7	1654.1	0.49	94.59
46.0-47.0	102.5	8.2	1662.3	0.47	95.06
47.0-48.0	94.4	7.6	1669.9	0.44	95.49
48.0-49.0	87.3	7.2	1677.1	0.41	95.90
49.0-50.0	80.7	6.7	1683.8	0.38	96.29
50.0-51.0	73.9	6.3	1690.1	0.36	96.65
51.0-52.0	66.7	5.7	1695.8	0.33	96.97
52.0-53.0	60.2	5.2	1701.0	0.30	97.27
53.0-54.0	55.2	4.9	1705.9	0.28	97.55
54.0-55.0	50.5	4.5	1710.4	0.26	97.81
55.0-56.0	45.2	4.1	1714.5	0.23	98.04
56.0-57.0	40.2	3.7	1718.2	0.21	98.25
57.0-58.0	36.8	3.4	1721.6	0.19	98.45
58.0-59.0	33.7	3.1	1724.7	0.18	98.63
59.0-60.0	30.9	2.9	1727.6	0.17	98.79
60.0-61.0	28.4	2.7	1730.3	0.15	98.95
61.0-62.0	24.9	2.4	1732.7	0.14	99.09
62.0-63.0	21.5	2.1	1734.8	0.12	99.20
63.0-64.0	19.3	1.9	1736.7	0.11	99.31
64.0-65.0	17.5	1.7	1738.4	0.10	99.41
65.0-66.0	15.9	1.6	1740.0	0.09	99.50
66.0-67.0	14.3	1.4	1741.5	0.08	99.59
67.0-68.0	12.8	1.3	1742.8	0.07	99.66
68.0-69.0	11.2	1.1	1743.9	0.07	99.72
69.0-70.0	9.7	1.0	1744.9	0.06	99.78
70.0-71.0	8.7	0.9	1745.8	0.05	99.83
71.0-72.0	7.2	0.7	1746.6	0.04	99.88

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	6956.3	6956.3								
G1.0	7143.3	6702.0								
G2.0	7255.5	6375.3								
G3.0	7295.4	5998.9								
G4.0	7266.7	5585.0								
G5.0	7171.9	5151.1								
G6.0	7004.9	4709.8								
G7.0	6766.8	4262.3								
G8.0	6458.9	3823.4								
G9.0	6093.6	3394.6								
G10.0	5682.2	2985.7								
G11.0	5243.4	2604.2								
G12.0	4799.6	2255.2								
G13.0	4354.5	1934.8								
G14.0	3913.2	1653.1								
G15.0	3480.6	1400.0								
G16.0	3066.7	1181.8								
G17.0	2679.0	994.8								
G18.0	2325.0	836.5								
G19.0	2007.1	703.1								
G20.0	1721.6	594.7								
G21.0	1467.3	508.6								
G22.0	1246.6	442.6								
G23.0	1052.2	390.2								
G24.0	887.6	351.5								
G25.0	751.7	317.9								
G26.0	638.3	289.2								
G27.0	549.8	268.0								
G28.0	476.2	249.3								
G29.0	417.6	233.1								
G30.0	369.0	218.2								
G31.0	332.9	203.2								
G32.0	304.2	190.7								
G33.0	278.0	180.8								
G34.0	258.1	170.8								
G35.0	239.4	163.3								
G36.0	221.9	157.1								

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	208.2	150.8								
G38.0	197.0	144.6								
G39.0	184.5	139.6								
G40.0	173.3	130.9								
G41.0	165.8	122.2								
G42.0	157.1	115.9								
G43.0	150.8	106.0								
G44.0	145.9	98.5								
G45.0	139.6	89.8								
G46.0	129.6	83.5								
G47.0	122.2	74.8								
G48.0	113.4	67.3								
G49.0	107.2	61.1								
G50.0	99.7	54.8								
G51.0	91.0	49.9								
G52.0	81.0	44.9								
G53.0	74.8	39.9								
G54.0	68.6	37.4								
G55.0	61.1	34.9								
G56.0	54.8	29.9								
G57.0	49.9	26.2								
G58.0	47.4	23.7								
G59.0	41.1	22.4								
G60.0	39.9	20.0								
G61.0	34.9	18.7								
G62.0	29.9	16.2								
G63.0	26.2	13.7								
G64.0	23.7	13.7								
G65.0	22.4	10.0								
G66.0	22.4	8.7								
G67.0	18.7	7.5								
G68.0	18.7	6.2								
G69.0	16.2	3.7								
G70.0	15.0	3.7								
G71.0	12.5	3.7								
G72.0	10.0	2.5								
G73.0	8.7	1.3								

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: