

Report No.: 55.05015 Mine Recessed
Downlight

Test Time: 2024-09-29 20:41

Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.080 A

Power Factor: 0.631

Voltage: 230.6 V

Power: 11.70 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1049.4 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H50.3

Vertical Diffuse Angle(50%): V50.3

Luminaire Efficacy Rating (LER): 90

Max. Intensity: 1446.82 cd

Total Rated Lamp Lumens: 1049.4 lm

Efficiency: 100%

Upward Ratio: 0%

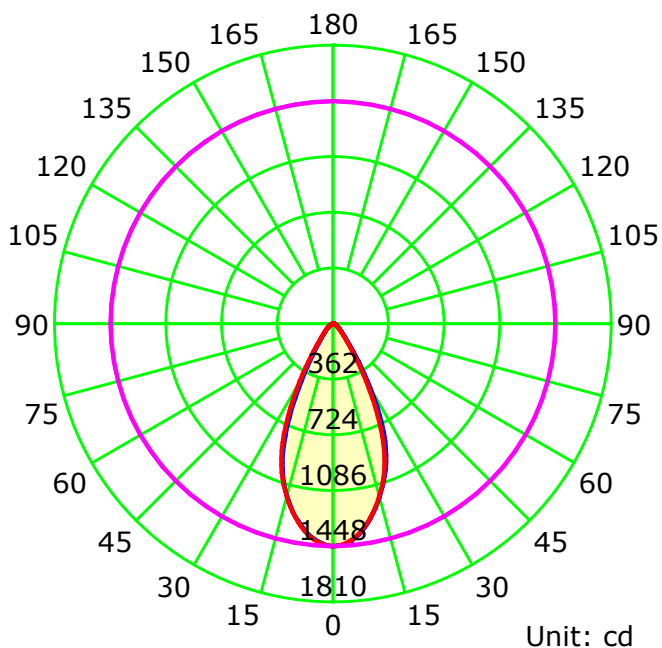
Central Intensity: 1446.81 cd

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

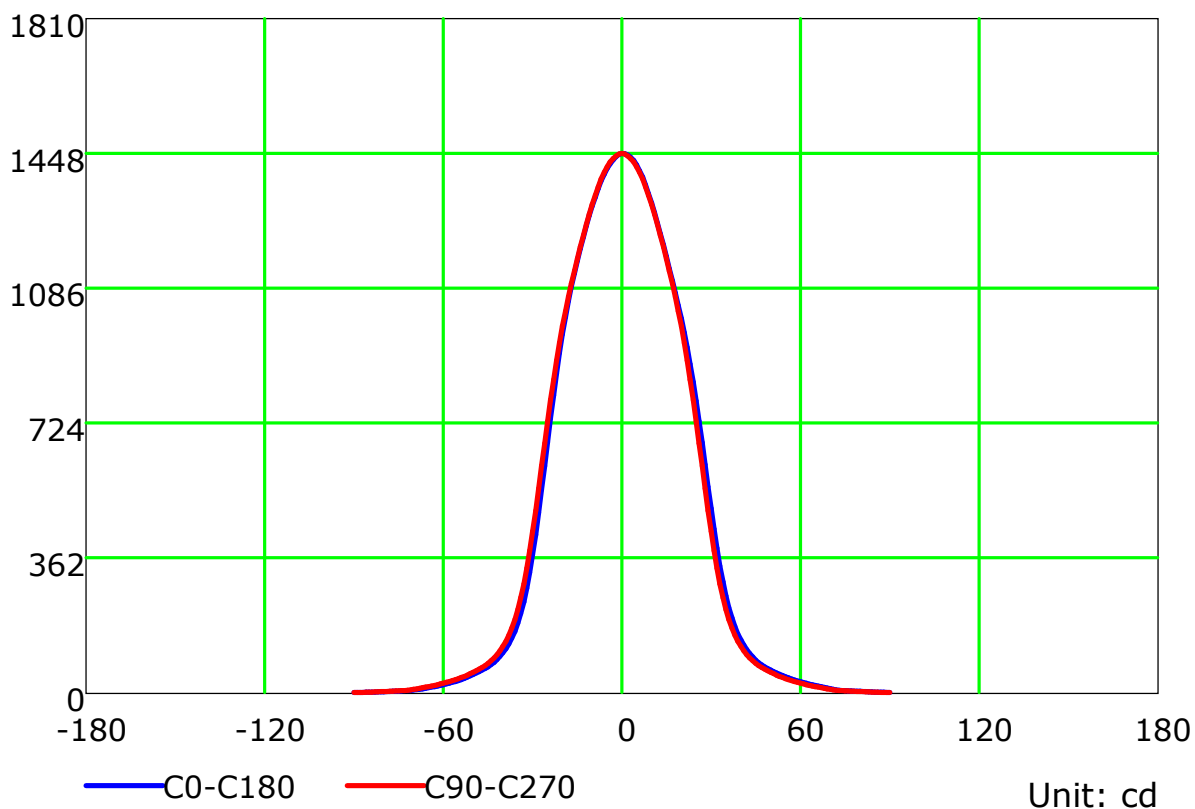
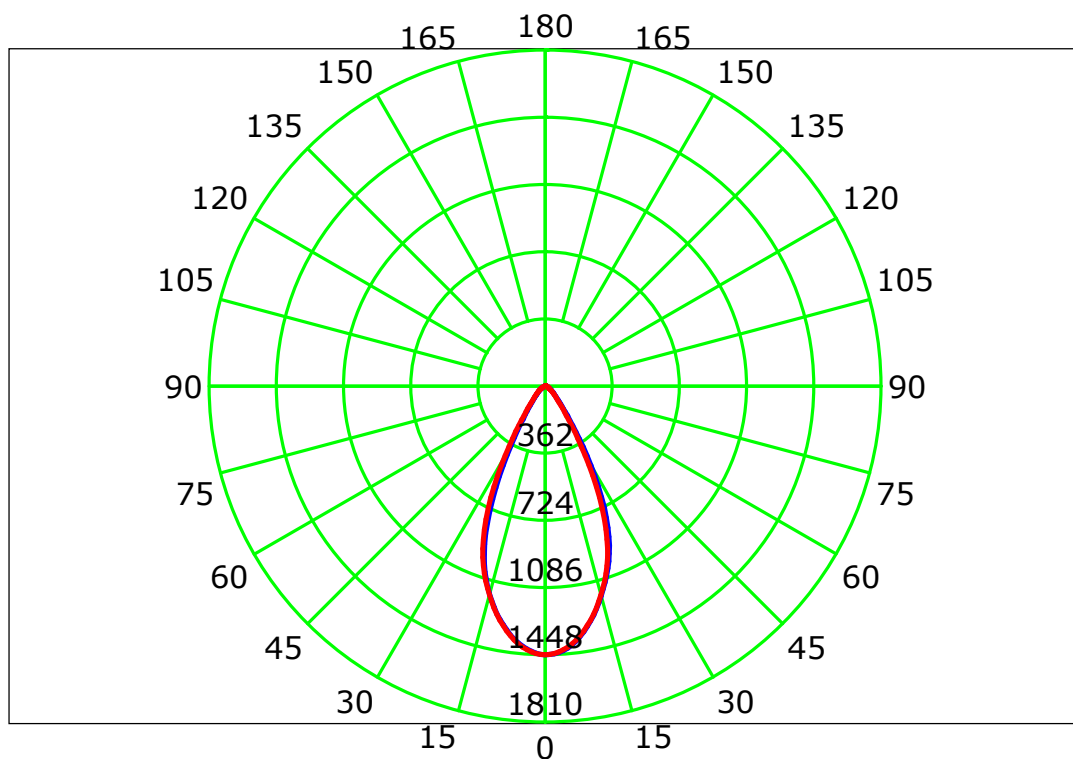
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

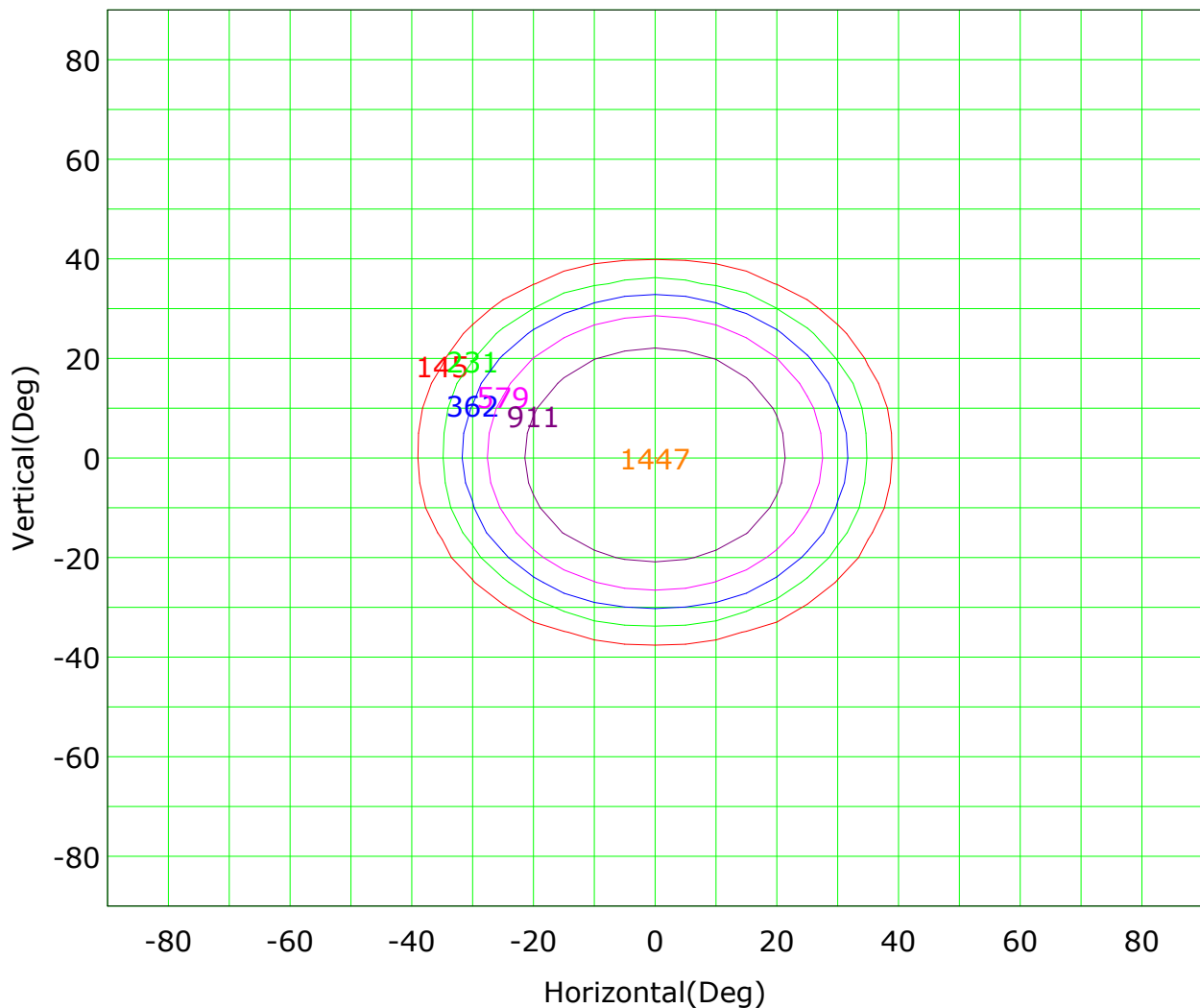
Luminous Intensity Distribution Curve



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%): 1447 cd

(10%): 145 cd	(16%): 231 cd
(25%): 362 cd	(40%): 579 cd
(63%): 911 cd	(100%): 1447 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

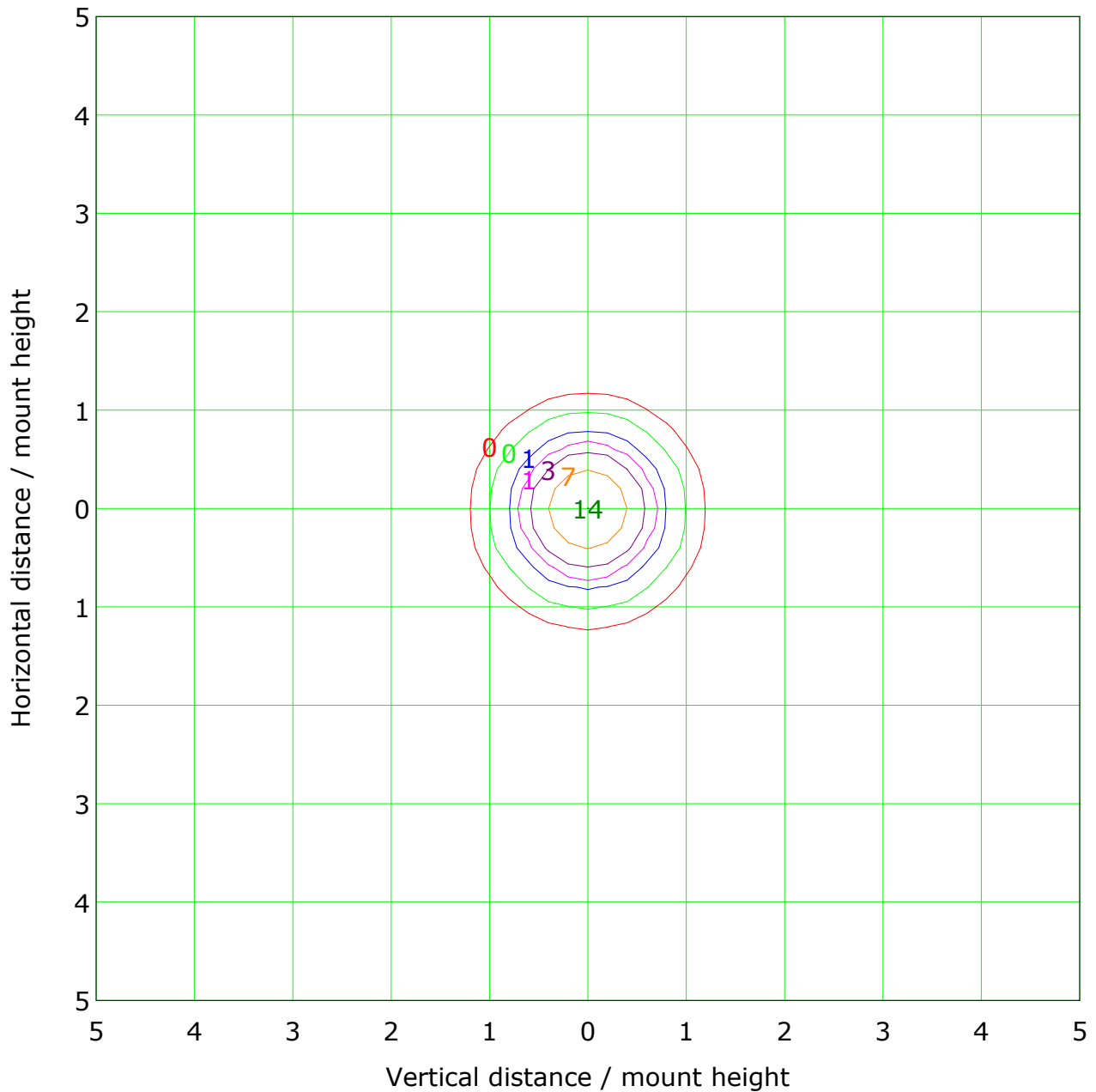
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

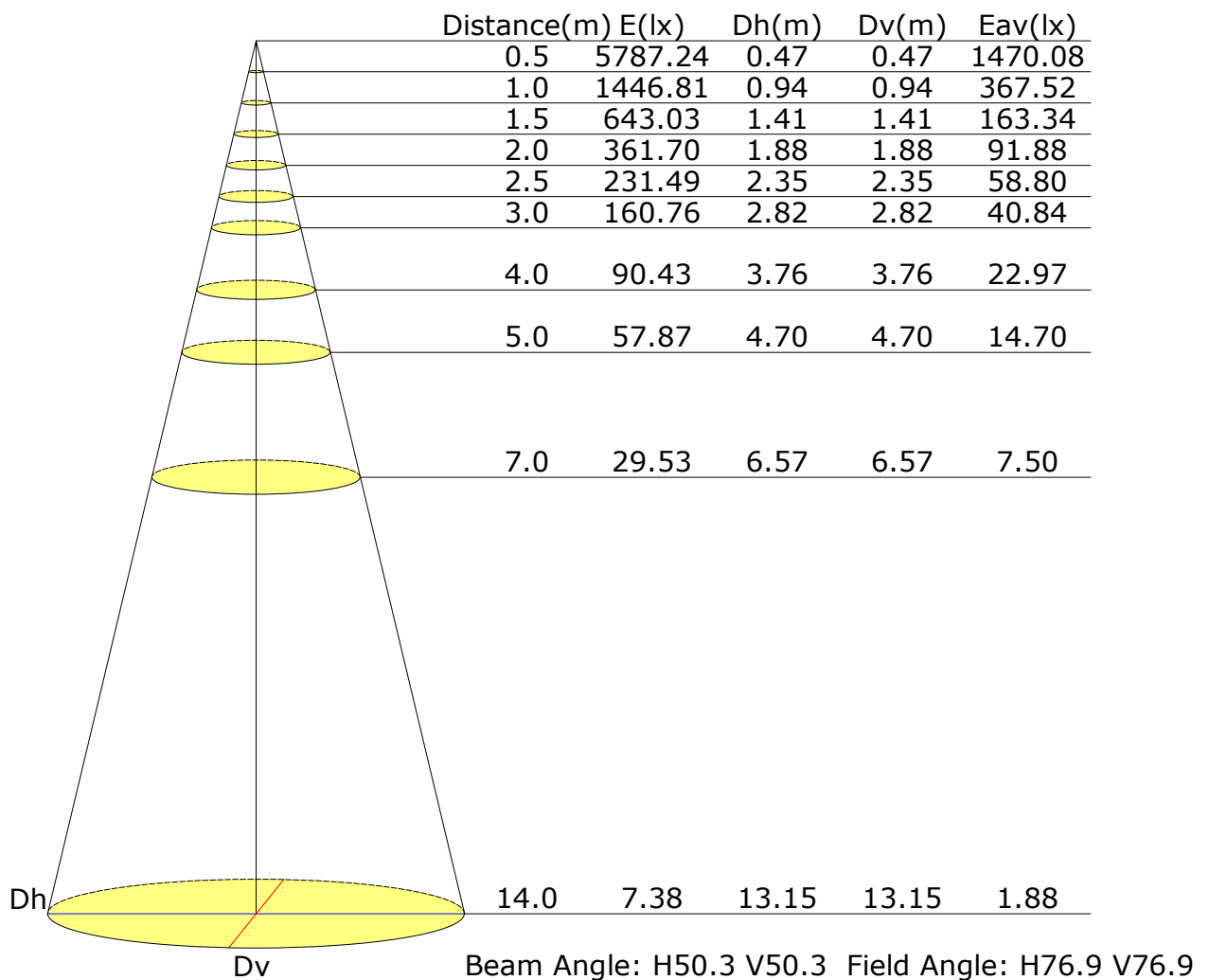


Mounting Height: 10m Max Lux(100%): 14 lx			
— (1%):	0 lx	— (2%):	0 lx
— (5%):	1 lx	— (10%):	1 lx
— (20%):	3 lx	— (50%):	7 lx
— (100%):	14 lx		

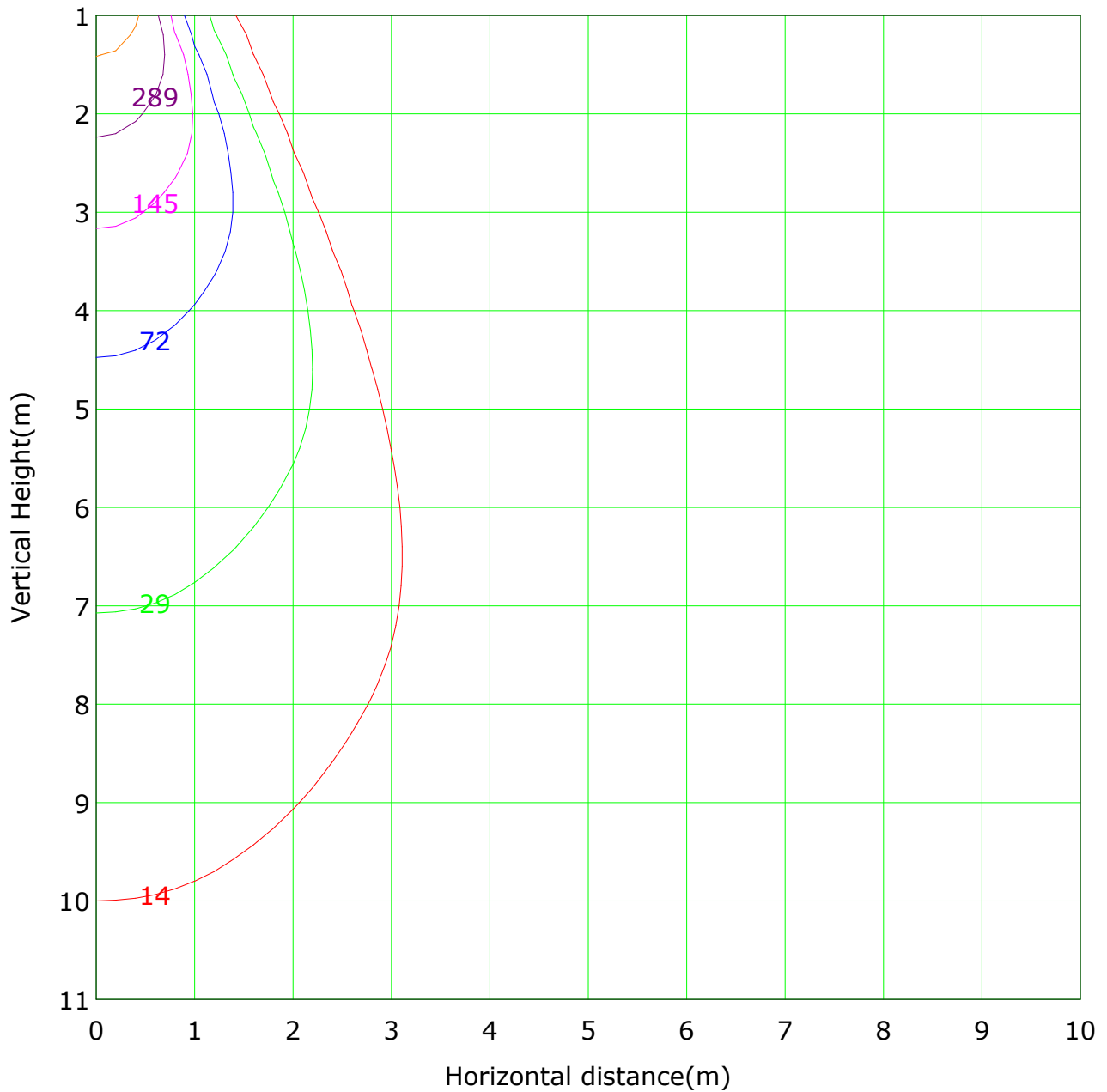
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 1447

(1%): 14 lx	(2%): 29 lx
(5%): 72 lx	(10%): 145 lx
(20%): 289 lx	(50%): 723 lx
(100%): 1447 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

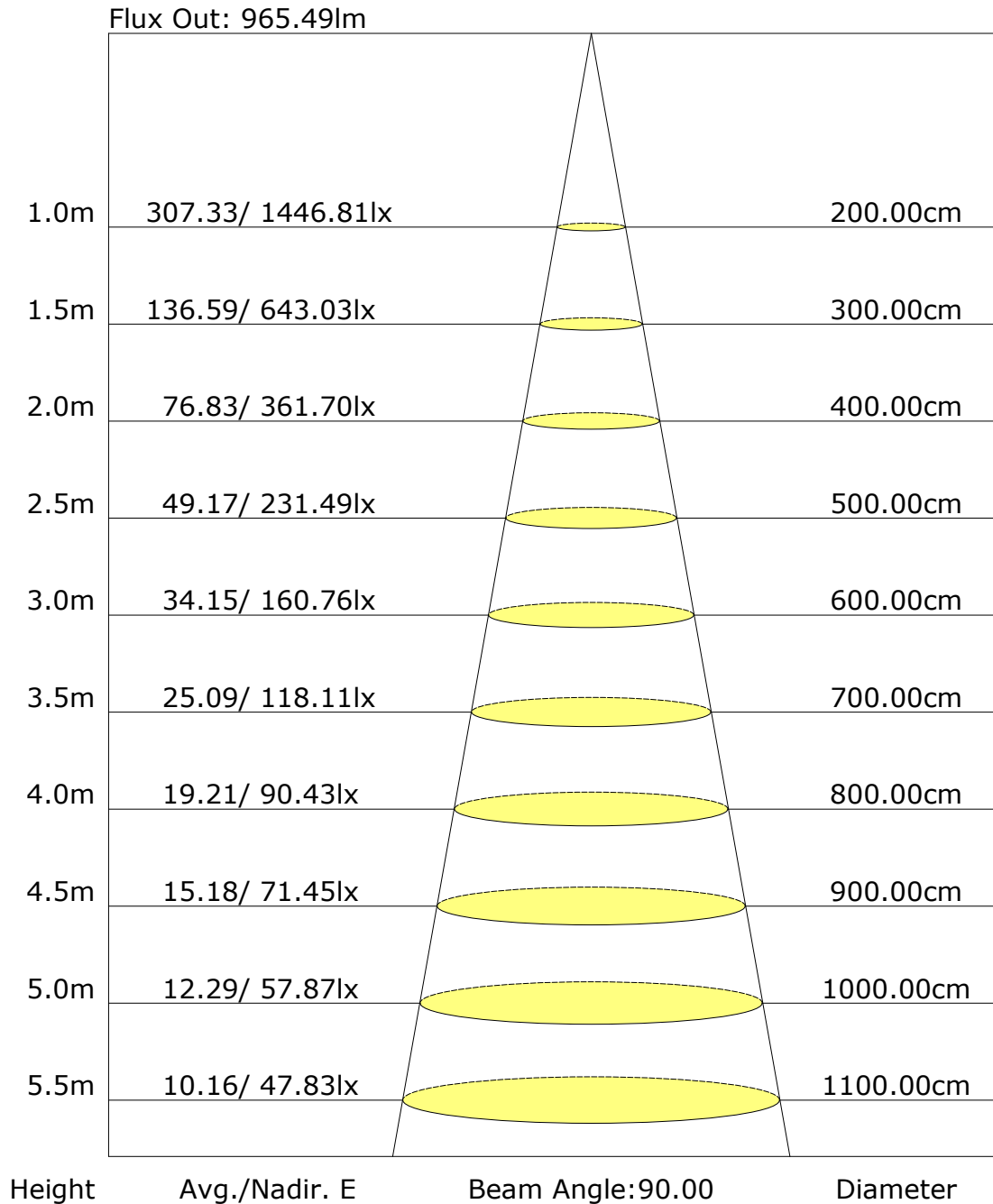
Test Device: CHL-6E

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	1446.2	1.4	1.4	0.13	0.13
1.0-2.0	1443.1	4.1	5.5	0.39	0.53
2.0-3.0	1437.1	6.9	12.4	0.66	1.18
3.0-4.0	1428.6	9.6	22.0	0.91	2.09
4.0-5.0	1417.6	12.2	34.2	1.16	3.26
5.0-6.0	1403.9	14.8	48.9	1.41	4.66
6.0-7.0	1387.4	17.2	66.1	1.64	6.30
7.0-8.0	1367.9	19.6	85.7	1.87	8.17
8.0-9.0	1345.8	21.8	107.5	2.08	10.25
9.0-10.0	1322.1	23.9	131.5	2.28	12.53
10.0-11.0	1297.1	25.9	157.4	2.47	15.00
11.0-12.0	1270.6	27.8	185.2	2.65	17.65
12.0-13.0	1241.9	29.5	214.6	2.81	20.45
13.0-14.0	1211.9	31.0	245.7	2.96	23.41
14.0-15.0	1180.7	32.4	278.1	3.09	26.50
15.0-16.0	1148.3	33.7	311.7	3.21	29.71
16.0-17.0	1114.7	34.7	346.5	3.31	33.02
17.0-18.0	1079.8	35.6	382.1	3.39	36.41
18.0-19.0	1042.7	36.3	418.3	3.46	39.87
19.0-20.0	1003.2	36.7	455.1	3.50	43.37
20.0-21.0	960.9	36.9	492.0	3.52	46.88
21.0-22.0	915.4	36.8	528.8	3.51	50.39
22.0-23.0	866.0	36.3	565.1	3.46	53.85
23.0-24.0	812.9	35.5	600.6	3.39	57.24
24.0-25.0	756.7	34.4	635.1	3.28	60.52
25.0-26.0	698.2	33.0	668.0	3.14	63.66
26.0-27.0	638.5	31.2	699.3	2.98	66.64
27.0-28.0	578.0	29.3	728.5	2.79	69.43
28.0-29.0	518.1	27.1	755.6	2.58	72.01
29.0-30.0	460.7	24.9	780.5	2.37	74.38
30.0-31.0	406.9	22.6	803.2	2.16	76.54
31.0-32.0	357.4	20.5	823.6	1.95	78.49
32.0-33.0	312.8	18.4	842.1	1.76	80.25
33.0-34.0	273.4	16.5	858.6	1.58	81.82
34.0-35.0	239.2	14.9	873.5	1.42	83.24
35.0-36.0	209.8	13.4	886.8	1.27	84.51

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	184.9	12.1	898.9	1.15	85.66
37.0-38.0	163.8	10.9	909.8	1.04	86.70
38.0-39.0	146.2	10.0	919.8	0.95	87.65
39.0-40.0	131.2	9.1	929.0	0.87	88.53
40.0-41.0	118.4	8.4	937.4	0.80	89.33
41.0-42.0	107.4	7.8	945.2	0.74	90.07
42.0-43.0	97.7	7.2	952.4	0.69	90.76
43.0-44.0	89.4	6.7	959.2	0.64	91.41
44.0-45.0	82.0	6.3	965.5	0.60	92.01
45.0-46.0	75.5	5.9	971.4	0.56	92.57
46.0-47.0	70.0	5.6	977.0	0.53	93.10
47.0-48.0	65.1	5.3	982.2	0.50	93.60
48.0-49.0	60.7	5.0	987.2	0.47	94.08
49.0-50.0	56.6	4.7	991.9	0.45	94.53
50.0-51.0	52.7	4.5	996.4	0.42	94.95
51.0-52.0	49.0	4.2	1000.6	0.40	95.35
52.0-53.0	45.4	4.0	1004.5	0.38	95.73
53.0-54.0	42.1	3.7	1008.3	0.35	96.08
54.0-55.0	39.1	3.5	1011.7	0.33	96.41
55.0-56.0	36.2	3.3	1015.0	0.31	96.73
56.0-57.0	33.5	3.1	1018.1	0.29	97.02
57.0-58.0	31.0	2.9	1020.9	0.27	97.29
58.0-59.0	28.7	2.7	1023.6	0.26	97.55
59.0-60.0	26.5	2.5	1026.1	0.24	97.79
60.0-61.0	24.4	2.3	1028.5	0.22	98.01
61.0-62.0	22.4	2.2	1030.6	0.21	98.21
62.0-63.0	20.5	2.0	1032.6	0.19	98.40
63.0-64.0	18.7	1.8	1034.5	0.17	98.58
64.0-65.0	17.0	1.7	1036.1	0.16	98.74
65.0-66.0	15.5	1.5	1037.7	0.15	98.89
66.0-67.0	13.8	1.4	1039.1	0.13	99.02
67.0-68.0	12.3	1.2	1040.3	0.12	99.14
68.0-69.0	10.8	1.1	1041.4	0.11	99.24
69.0-70.0	9.4	1.0	1042.4	0.09	99.33
70.0-71.0	8.1	0.8	1043.2	0.08	99.41
71.0-72.0	7.0	0.7	1043.9	0.07	99.48

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	1446.8	1446.8								
G1.0	1446.1	1444.9								
G2.0	1442.6	1438.9								
G3.0	1437.0	1429.9								
G4.0	1428.6	1419.0								
G5.0	1416.4	1406.6								
G6.0	1401.3	1391.6								
G7.0	1383.4	1373.4								
G8.0	1362.1	1352.6								
G9.0	1338.9	1329.7								
G10.0	1314.5	1305.4								
G11.0	1288.3	1280.3								
G12.0	1260.3	1253.3								
G13.0	1231.4	1222.7								
G14.0	1201.7	1191.6								
G15.0	1170.2	1159.3								
G16.0	1137.8	1126.0								
G17.0	1105.0	1090.1								
G18.0	1072.6	1051.3								
G19.0	1038.9	1008.1								
G20.0	1003.7	962.0								
G21.0	966.2	911.7								
G22.0	926.3	857.2								
G23.0	881.8	798.5								
G24.0	834.1	736.9								
G25.0	783.0	672.8								
G26.0	728.6	608.6								
G27.0	671.5	545.1								
G28.0	612.5	482.9								
G29.0	552.7	424.2								
G30.0	494.7	371.1								
G31.0	439.2	322.7								
G32.0	387.6	280.3								
G33.0	339.5	243.8								
G34.0	297.7	212.5								
G35.0	260.2	186.5								
G36.0	228.1	164.6								

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	200.6	146.3								
G38.0	177.4	131.1								
G39.0	157.9	118.2								
G40.0	141.5	107.0								
G41.0	127.8	97.3								
G42.0	115.7	88.6								
G43.0	105.5	81.1								
G44.0	96.0	75.0								
G45.0	87.4	69.5								
G46.0	80.4	64.7								
G47.0	74.6	60.2								
G48.0	69.4	56.1								
G49.0	64.7	52.5								
G50.0	60.6	48.7								
G51.0	56.6	44.9								
G52.0	52.9	41.5								
G53.0	49.4	38.0								
G54.0	45.9	35.1								
G55.0	42.7	32.5								
G56.0	39.7	29.8								
G57.0	36.8	27.7								
G58.0	34.1	25.5								
G59.0	31.8	23.5								
G60.0	29.5	21.4								
G61.0	27.2	19.6								
G62.0	25.0	17.9								
G63.0	22.8	16.3								
G64.0	20.9	14.6								
G65.0	19.4	13.2								
G66.0	17.5	11.8								
G67.0	15.9	10.2								
G68.0	14.0	8.9								
G69.0	12.4	7.8								
G70.0	10.6	6.9								
G71.0	8.8	6.0								
G72.0	7.7	5.5								
G73.0	6.7	5.2								

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:

Unit: cd

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