

Report No.:55.03520 Mine Recessed
Downlight

Test Time: 2024-10-07 20:09

Luminaire Property

Luminaire Category:

Luminaire Description: Bridgelux 5050 4000K CRI90 Voltage: 228.7 V

Current: 0.043 A

Power: 8.30 W

Power Factor: 0.840

Photometric Results

CIE Class: Direct

Measurement Flux: 476.3 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H49.3

Vertical Diffuse Angle(50%): V49.3

Luminaire Efficacy Rating (LER): 57

Max. Intensity: 562.52 cd

Total Rated Lamp Lumens: 476.3 lm

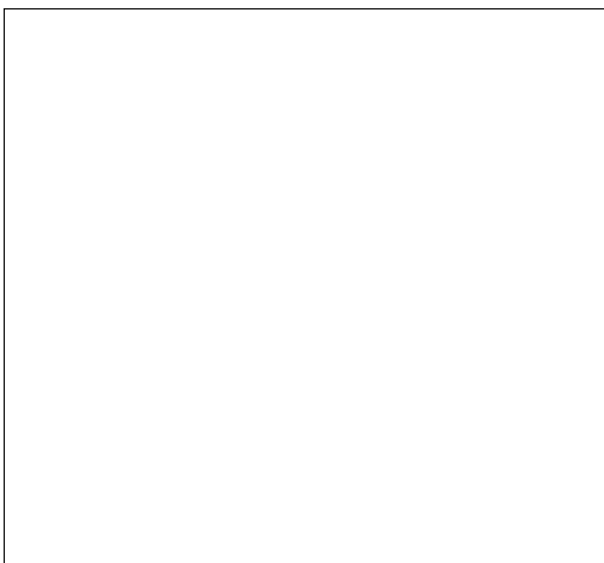
Efficiency: 100%

Upward Ratio: 0%

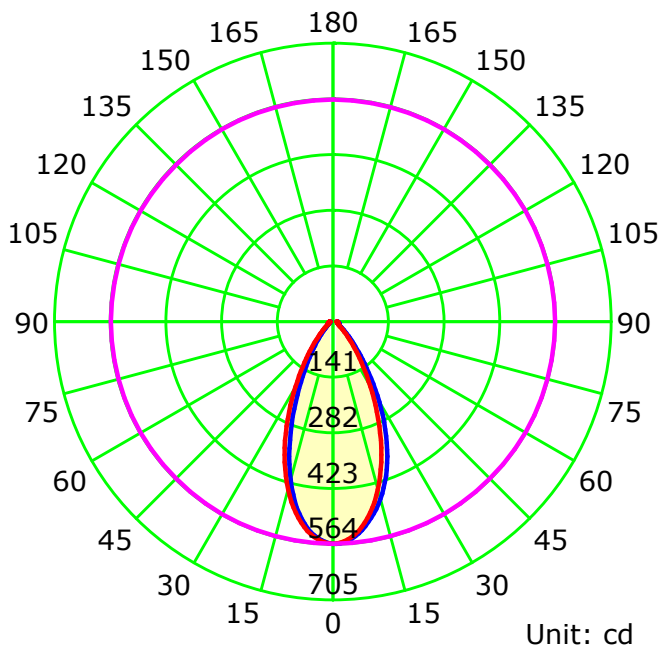
Central Intensity: 562.51 cd

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

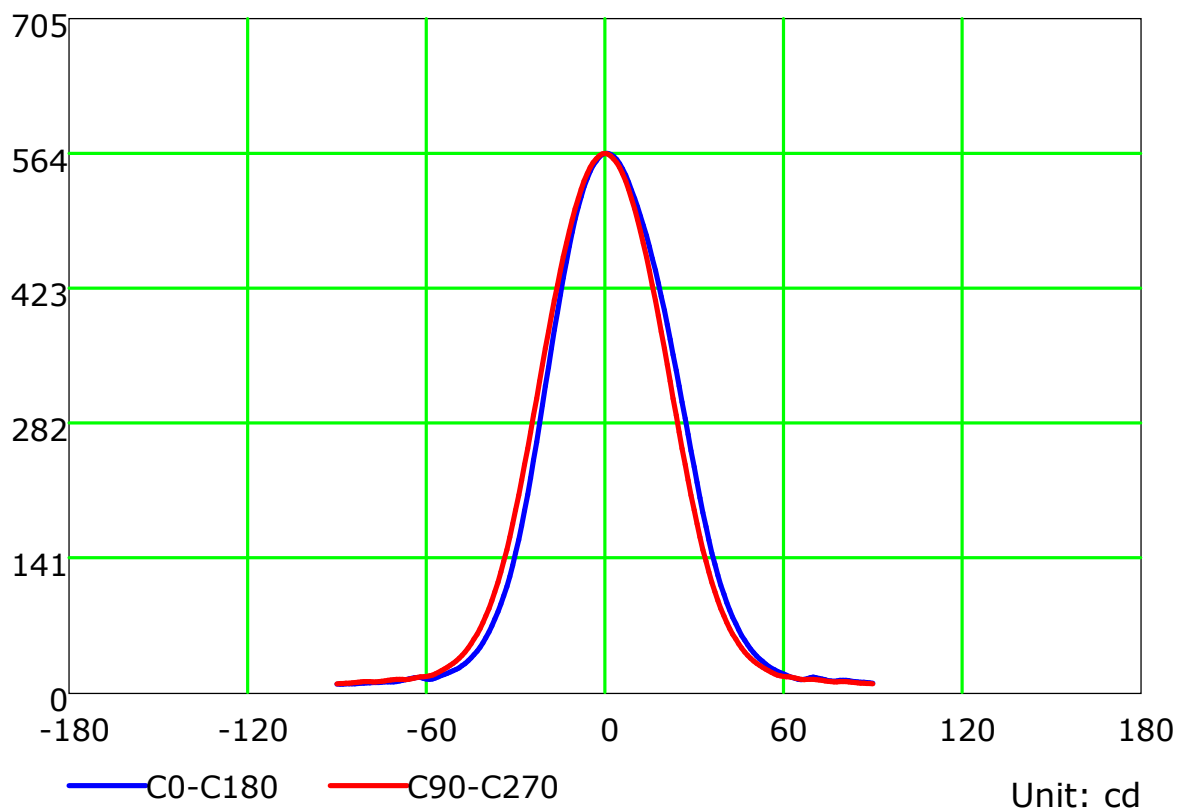
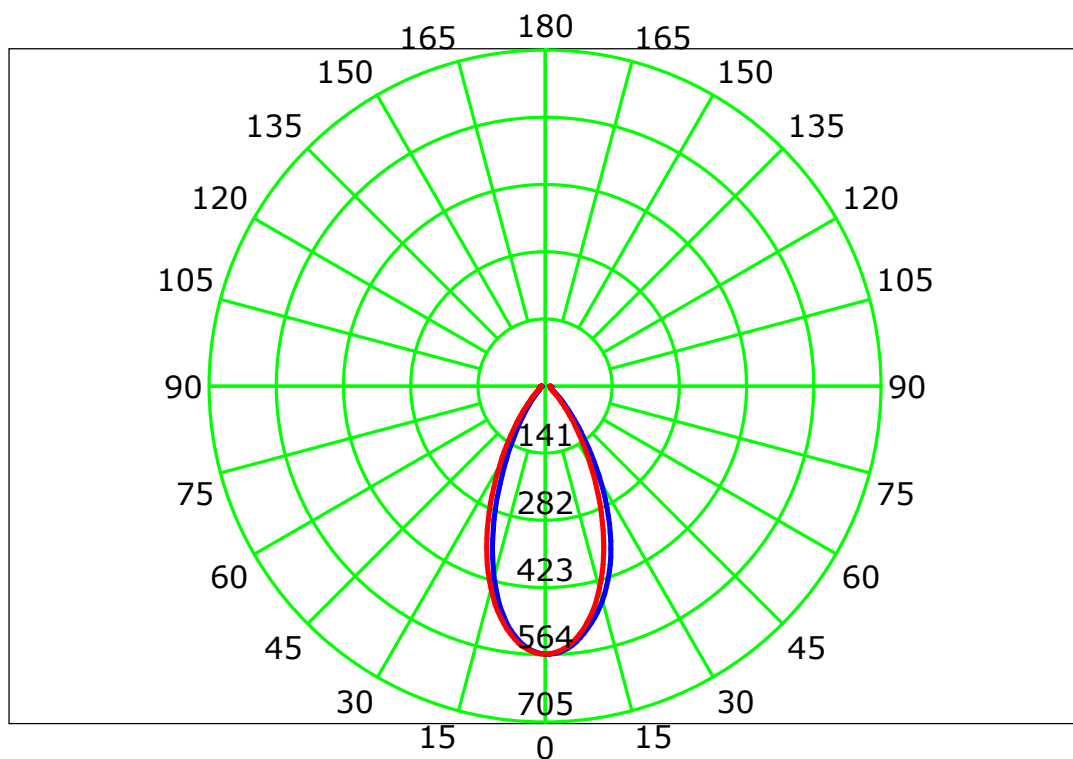
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

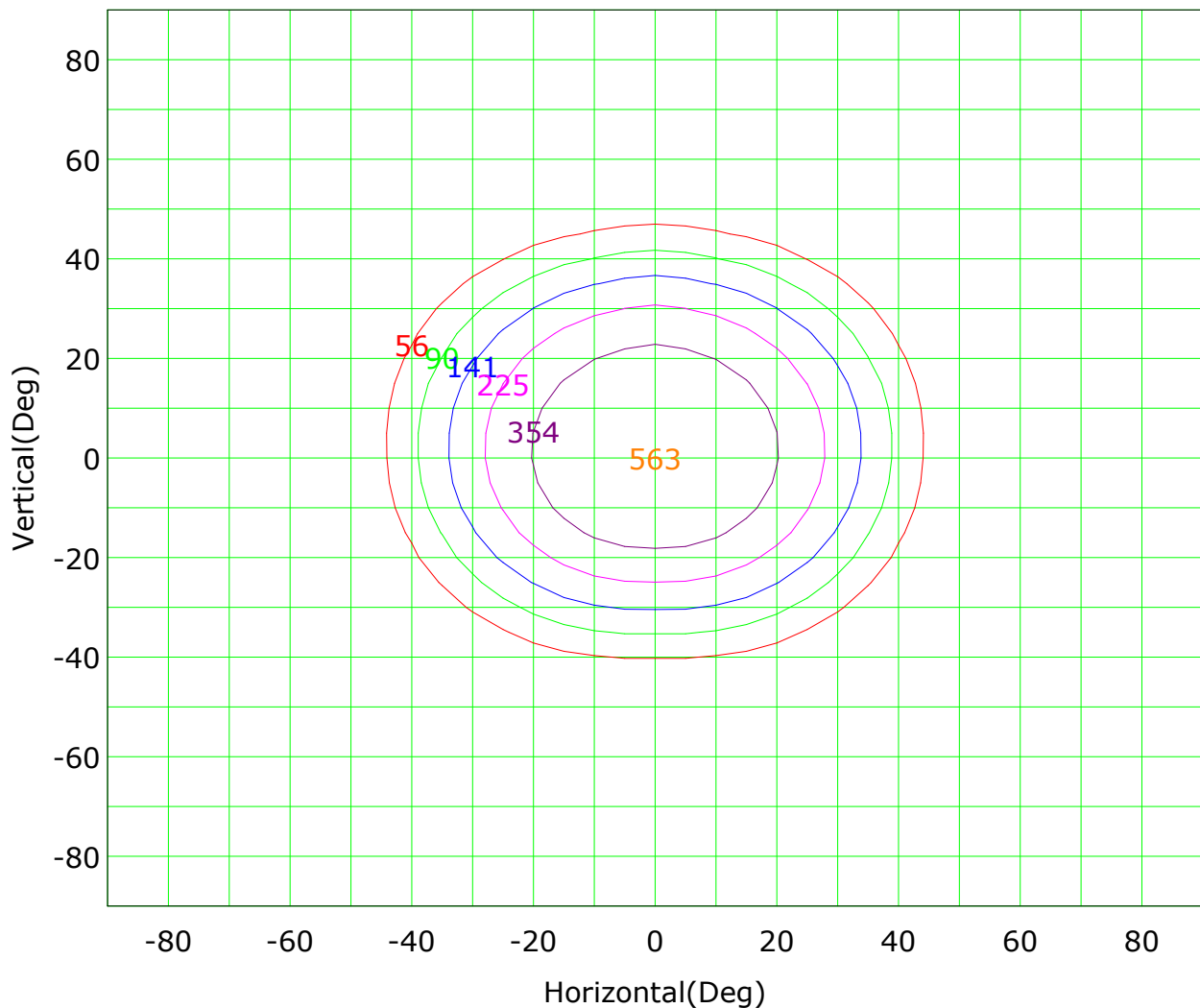
Luminous Intensity Distribution Curve



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%): 563 cd

(10%):	56 cd	(16%):	90 cd
(25%):	141 cd	(40%):	225 cd
(63%):	354 cd	(100%):	563 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

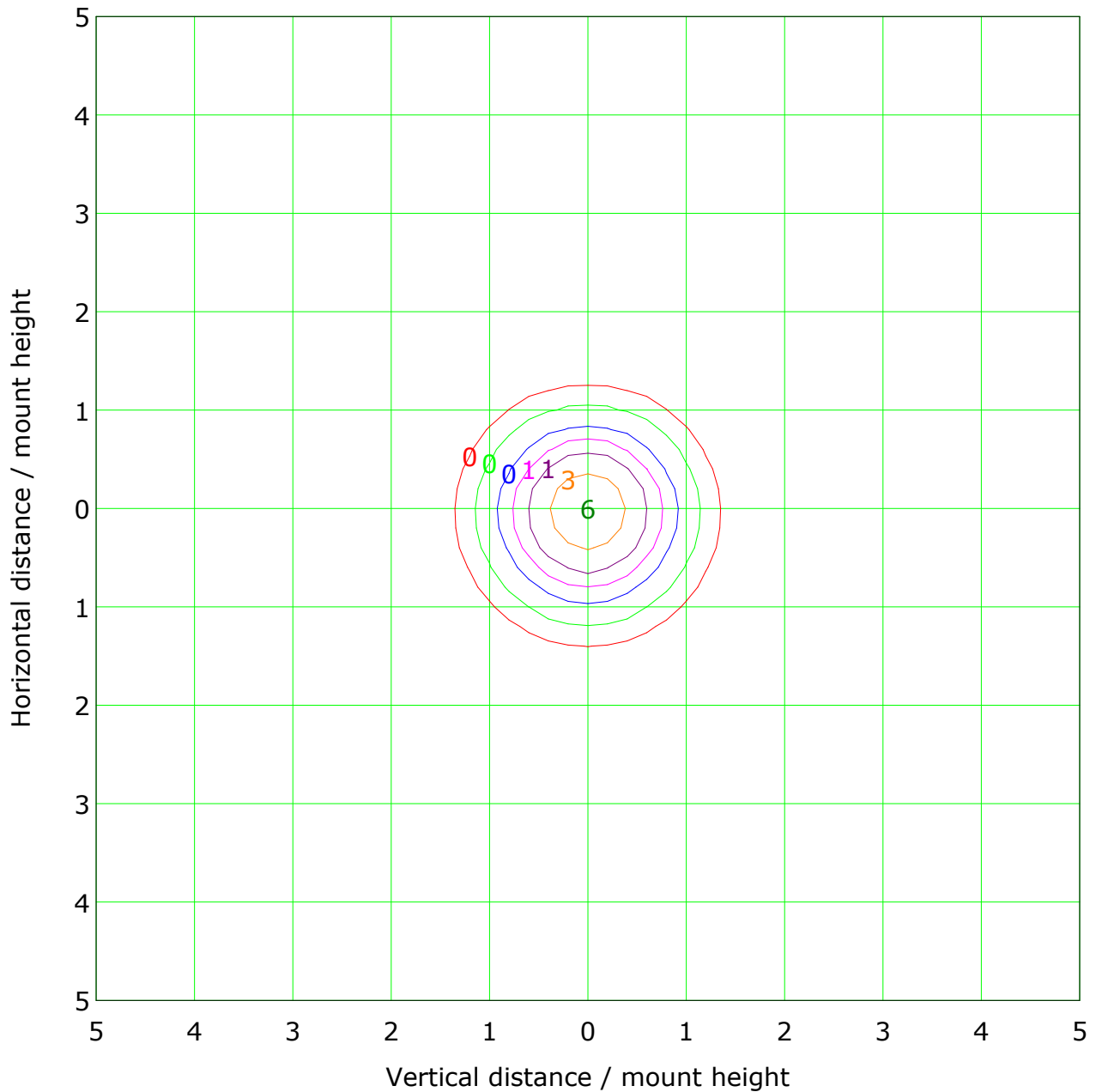
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10m Max Lux(100%): 6 lx			
— (1%):	0 lx	— (2%):	0 lx
— (5%):	0 lx	— (10%):	1 lx
— (20%):	1 lx	— (50%):	3 lx
— (100%):	6 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

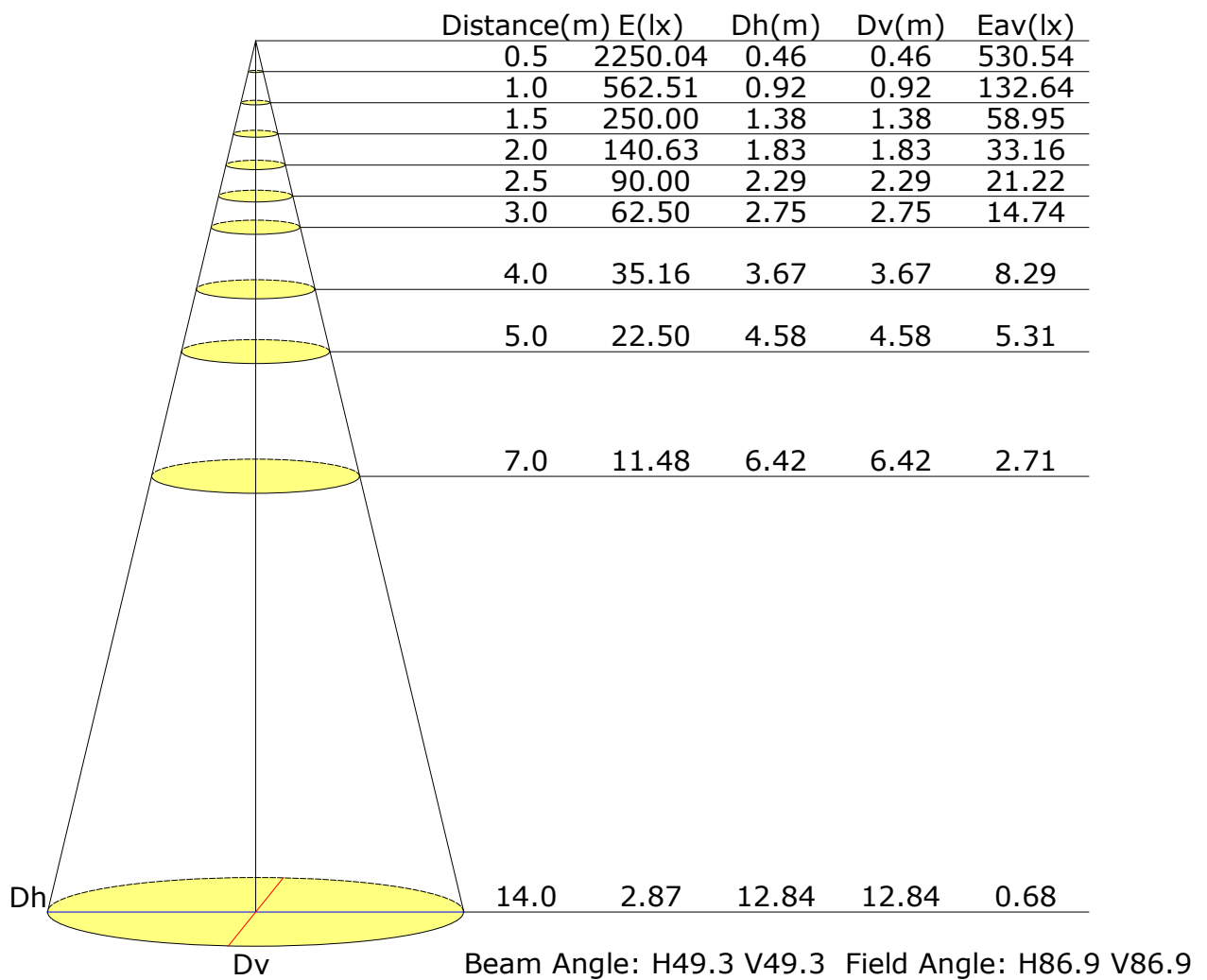
Test Device: CHL-6E

Distance: 3.328 m

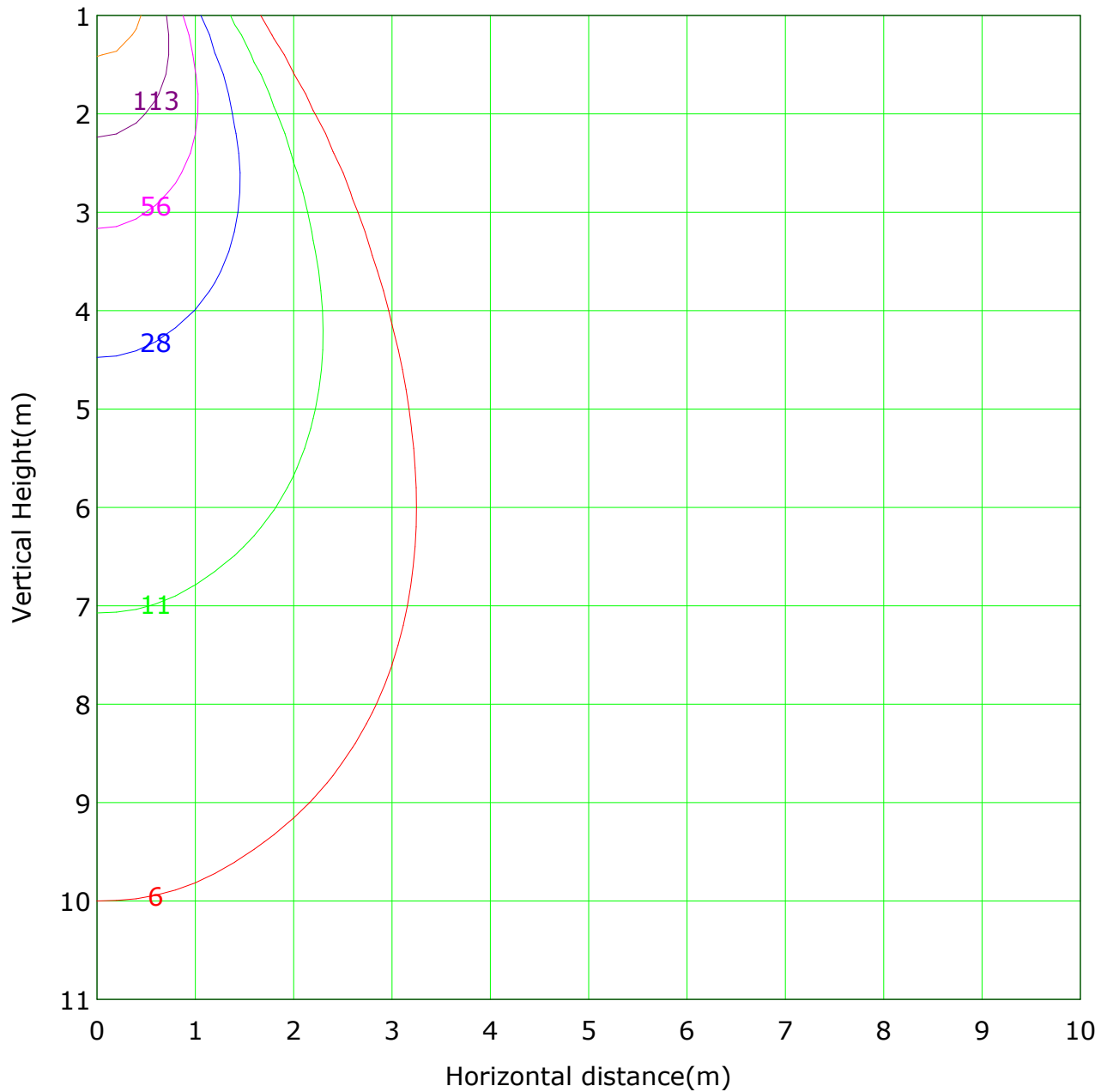
Humidity:

Inspector:

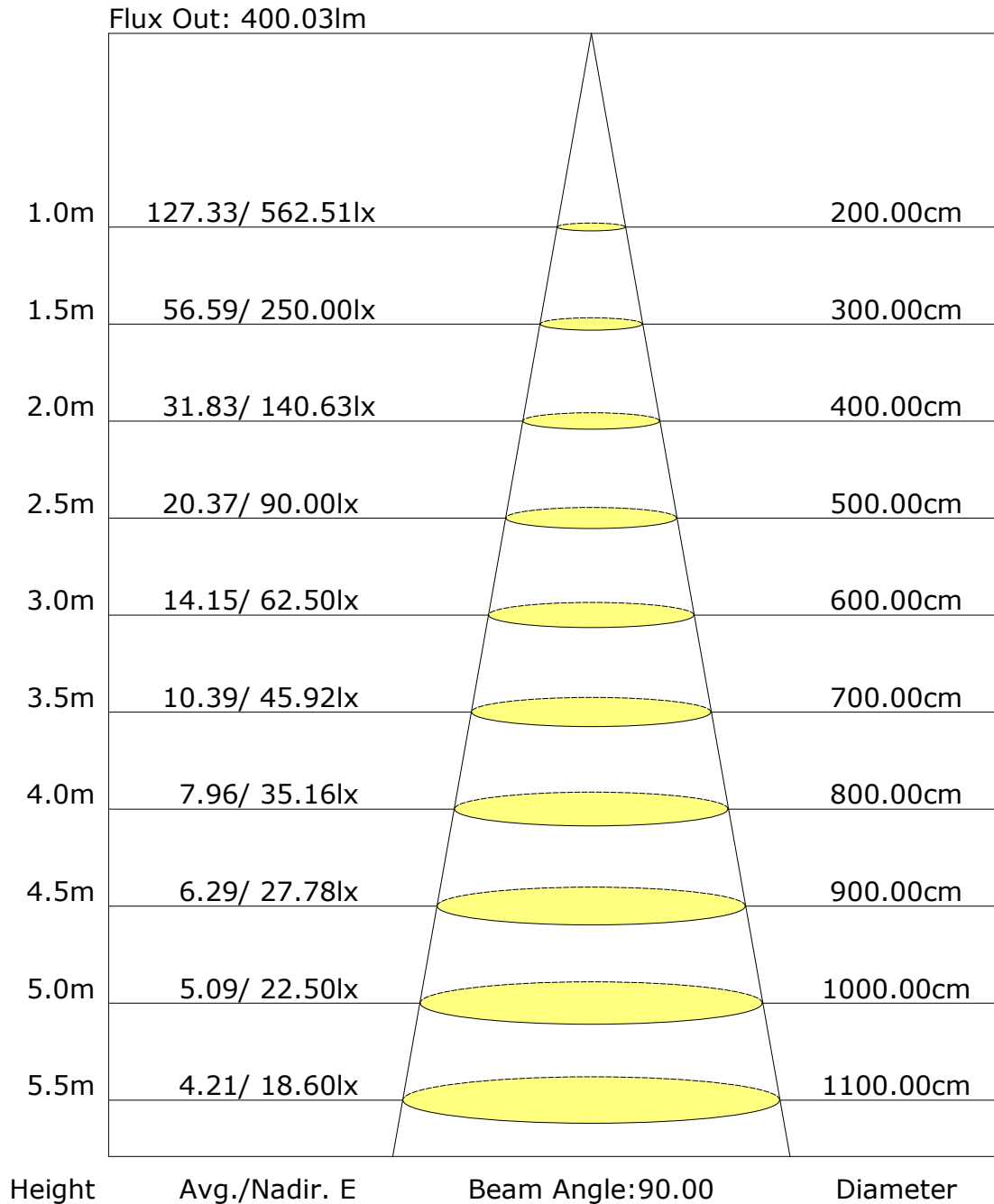
Illuminance at a Distance



Vertical IsoLux Plot



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	562.2	0.5	0.5	0.11	0.11
1.0-2.0	561.0	1.6	2.1	0.34	0.45
2.0-3.0	558.6	2.7	4.8	0.56	1.01
3.0-4.0	555.1	3.7	8.5	0.78	1.79
4.0-5.0	550.6	4.7	13.3	0.99	2.79
5.0-6.0	544.8	5.7	19.0	1.20	3.99
6.0-7.0	537.8	6.7	25.7	1.40	5.39
7.0-8.0	529.6	7.6	33.3	1.59	6.98
8.0-9.0	520.4	8.4	41.7	1.77	8.75
9.0-10.0	510.2	9.2	50.9	1.94	10.69
10.0-11.0	499.3	10.0	60.9	2.09	12.79
11.0-12.0	487.6	10.7	71.6	2.24	15.02
12.0-13.0	475.1	11.3	82.8	2.37	17.39
13.0-14.0	461.8	11.8	94.7	2.48	19.87
14.0-15.0	447.6	12.3	107.0	2.58	22.45
15.0-16.0	432.7	12.7	119.6	2.66	25.12
16.0-17.0	417.3	13.0	132.6	2.73	27.84
17.0-18.0	401.4	13.2	145.9	2.78	30.62
18.0-19.0	384.9	13.4	159.3	2.81	33.43
19.0-20.0	367.9	13.5	172.7	2.83	36.26
20.0-21.0	350.7	13.5	186.2	2.83	39.09
21.0-22.0	333.4	13.4	199.6	2.81	41.90
22.0-23.0	315.8	13.3	212.8	2.78	44.69
23.0-24.0	298.1	13.0	225.9	2.74	47.42
24.0-25.0	280.6	12.8	238.6	2.68	50.10
25.0-26.0	263.3	12.4	251.1	2.61	52.71
26.0-27.0	246.4	12.1	263.1	2.53	55.24
27.0-28.0	229.9	11.6	274.8	2.44	57.69
28.0-29.0	213.8	11.2	286.0	2.35	60.04
29.0-30.0	198.3	10.7	296.7	2.25	62.28
30.0-31.0	183.3	10.2	306.9	2.14	64.43
31.0-32.0	169.1	9.7	316.6	2.03	66.46
32.0-33.0	155.7	9.2	325.7	1.93	68.39
33.0-34.0	143.2	8.7	334.4	1.82	70.21
34.0-35.0	131.5	8.2	342.6	1.71	71.92
35.0-36.0	120.5	7.7	350.2	1.61	73.53

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	110.1	7.2	357.4	1.51	75.04
37.0-38.0	100.6	6.7	364.1	1.41	76.45
38.0-39.0	91.9	6.3	370.4	1.32	77.77
39.0-40.0	83.8	5.8	376.3	1.23	78.99
40.0-41.0	76.4	5.4	381.7	1.14	80.14
41.0-42.0	69.8	5.1	386.8	1.06	81.20
42.0-43.0	63.8	4.7	391.5	0.99	82.19
43.0-44.0	58.4	4.4	395.9	0.93	83.12
44.0-45.0	53.4	4.1	400.0	0.86	83.98
45.0-46.0	48.8	3.8	403.8	0.80	84.78
46.0-47.0	44.5	3.5	407.4	0.74	85.53
47.0-48.0	40.7	3.3	410.7	0.69	86.22
48.0-49.0	37.3	3.1	413.7	0.64	86.86
49.0-50.0	34.4	2.9	416.6	0.60	87.46
50.0-51.0	31.8	2.7	419.3	0.56	88.03
51.0-52.0	29.5	2.5	421.8	0.53	88.56
52.0-53.0	27.4	2.4	424.2	0.50	89.06
53.0-54.0	25.4	2.2	426.4	0.47	89.53
54.0-55.0	23.6	2.1	428.5	0.44	89.97
55.0-56.0	21.9	2.0	430.5	0.42	90.39
56.0-57.0	20.4	1.9	432.4	0.39	90.78
57.0-58.0	19.0	1.8	434.1	0.37	91.15
58.0-59.0	17.8	1.7	435.8	0.35	91.50
59.0-60.0	17.1	1.6	437.4	0.34	91.84
60.0-61.0	16.8	1.6	439.0	0.34	92.17
61.0-62.0	16.6	1.6	440.6	0.34	92.51
62.0-63.0	16.2	1.6	442.2	0.33	92.84
63.0-64.0	15.6	1.5	443.7	0.32	93.16
64.0-65.0	14.8	1.5	445.2	0.31	93.47
65.0-66.0	14.1	1.4	446.6	0.30	93.76
66.0-67.0	13.7	1.4	448.0	0.29	94.05
67.0-68.0	13.7	1.4	449.4	0.29	94.34
68.0-69.0	13.8	1.4	450.8	0.30	94.64
69.0-70.0	13.9	1.4	452.2	0.30	94.94
70.0-71.0	13.7	1.4	453.6	0.30	95.23
71.0-72.0	13.3	1.4	455.0	0.29	95.52

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	562.5	562.5								
G1.0	562.5	561.3								
G2.0	561.5	558.5								
G3.0	559.5	554.7								
G4.0	556.3	549.8								
G5.0	552.1	544.0								
G6.0	546.6	536.7								
G7.0	540.0	527.9								
G8.0	532.7	517.7								
G9.0	524.4	506.8								
G10.0	515.7	494.1								
G11.0	506.8	480.5								
G12.0	497.3	465.7								
G13.0	487.6	449.8								
G14.0	476.9	432.9								
G15.0	465.4	415.1								
G16.0	453.1	397.0								
G17.0	440.6	378.4								
G18.0	427.3	359.3								
G19.0	413.4	339.5								
G20.0	398.9	319.8								
G21.0	384.1	300.2								
G22.0	368.7	280.7								
G23.0	352.5	261.3								
G24.0	336.2	242.6								
G25.0	319.8	223.8								
G26.0	303.0	206.6								
G27.0	286.0	189.9								
G28.0	269.4	174.2								
G29.0	252.3	159.5								
G30.0	235.5	145.8								
G31.0	219.2	132.8								
G32.0	203.2	121.2								
G33.0	187.8	110.6								
G34.0	173.1	101.2								
G35.0	159.3	92.4								
G36.0	145.9	84.3								

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:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	133.7	76.6								
G38.0	122.4	69.8								
G39.0	112.1	63.3								
G40.0	102.6	57.4								
G41.0	93.9	52.0								
G42.0	85.9	47.4								
G43.0	78.7	43.3								
G44.0	72.0	39.7								
G45.0	65.6	36.4								
G46.0	59.7	33.4								
G47.0	54.5	30.3								
G48.0	49.8	28.1								
G49.0	45.6	26.0								
G50.0	41.7	24.3								
G51.0	38.2	22.7								
G52.0	35.4	21.5								
G53.0	32.8	20.1								
G54.0	30.0	18.9								
G55.0	27.7	17.8								
G56.0	25.7	16.5								
G57.0	24.0	15.3								
G58.0	22.4	14.3								
G59.0	20.9	13.9								
G60.0	19.5	14.3								
G61.0	18.3	15.0								
G62.0	17.0	16.0								
G63.0	15.9	16.0								
G64.0	14.9	15.5								
G65.0	13.9	14.9								
G66.0	13.4	14.1								
G67.0	13.9	13.4								
G68.0	14.6	12.8								
G69.0	15.6	12.2								
G70.0	16.1	11.6								
G71.0	15.6	11.3								
G72.0	14.9	11.3								
G73.0	14.1	11.3								

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: