

Report No.:

Test Time: 12/09/2019 14:09

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW09-01 + LLD-01-FM

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1042 lm

Voltage: 24.0 V

Current: 0.597 A

Power: 14.31 W

Power Factor: 1.000

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 1041.8 lm

Downward Ratio: 86.03%

Total Rated Lamp Lumens: 1042.0 lm

Efficiency: 99.98%

Upward Ratio: 13.95%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.9, 139.5, 141.3, 141.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.5, 104.7, 106.4, 106.8

Luminaire Efficacy Rating (LER): 72.86

Central Intensity: 197.43 cd

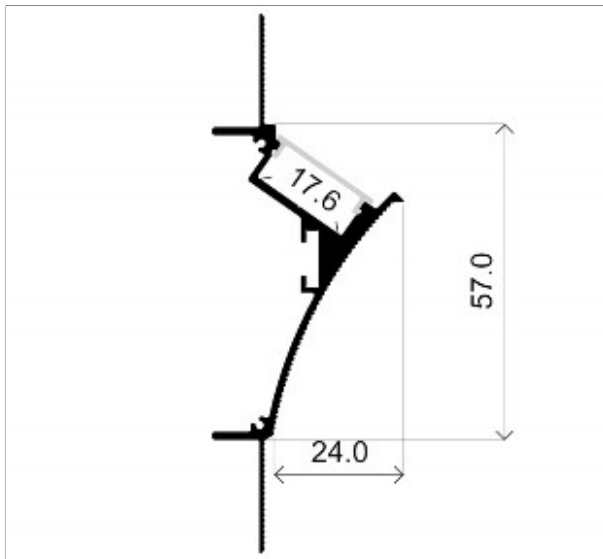
Max. Intensity: 393.49 cd

Pos of Max. Intensity: H90 V53

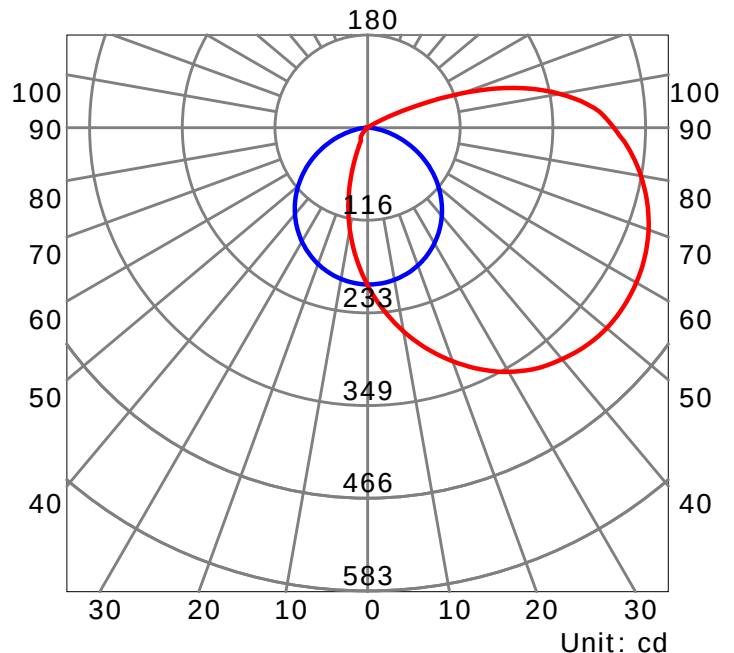
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.50

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

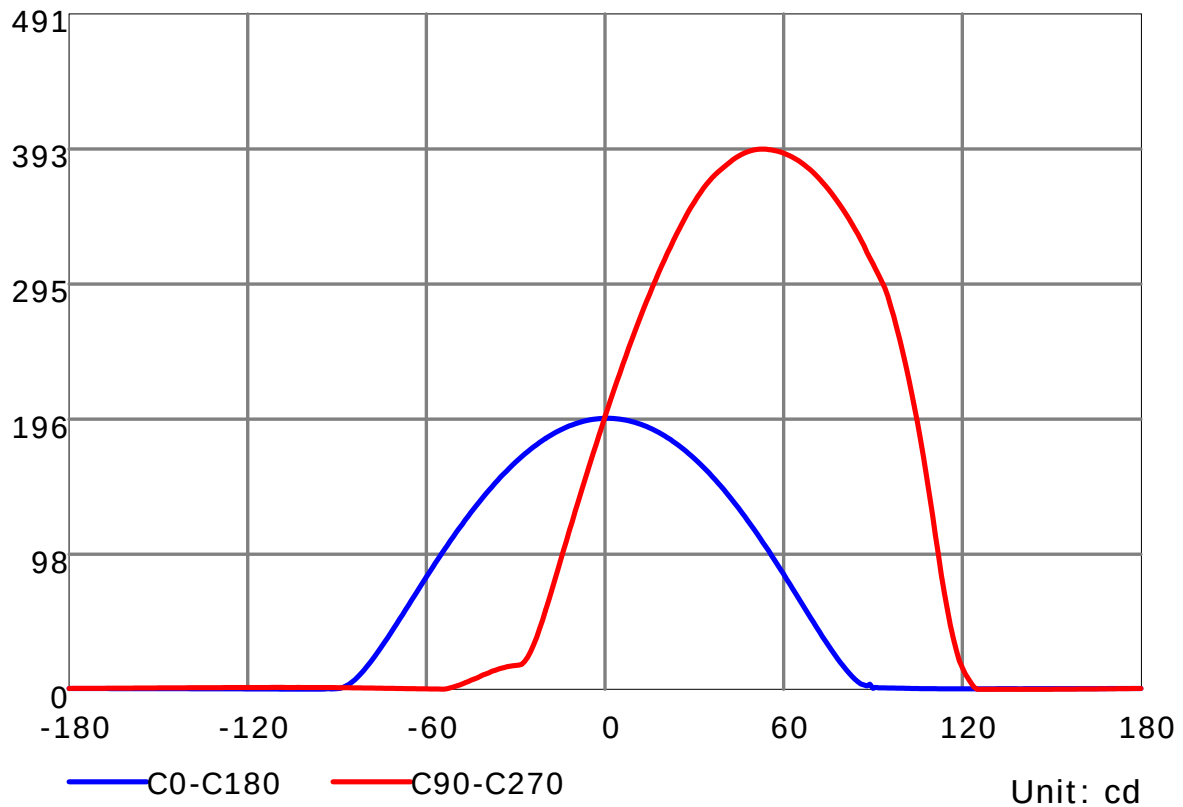
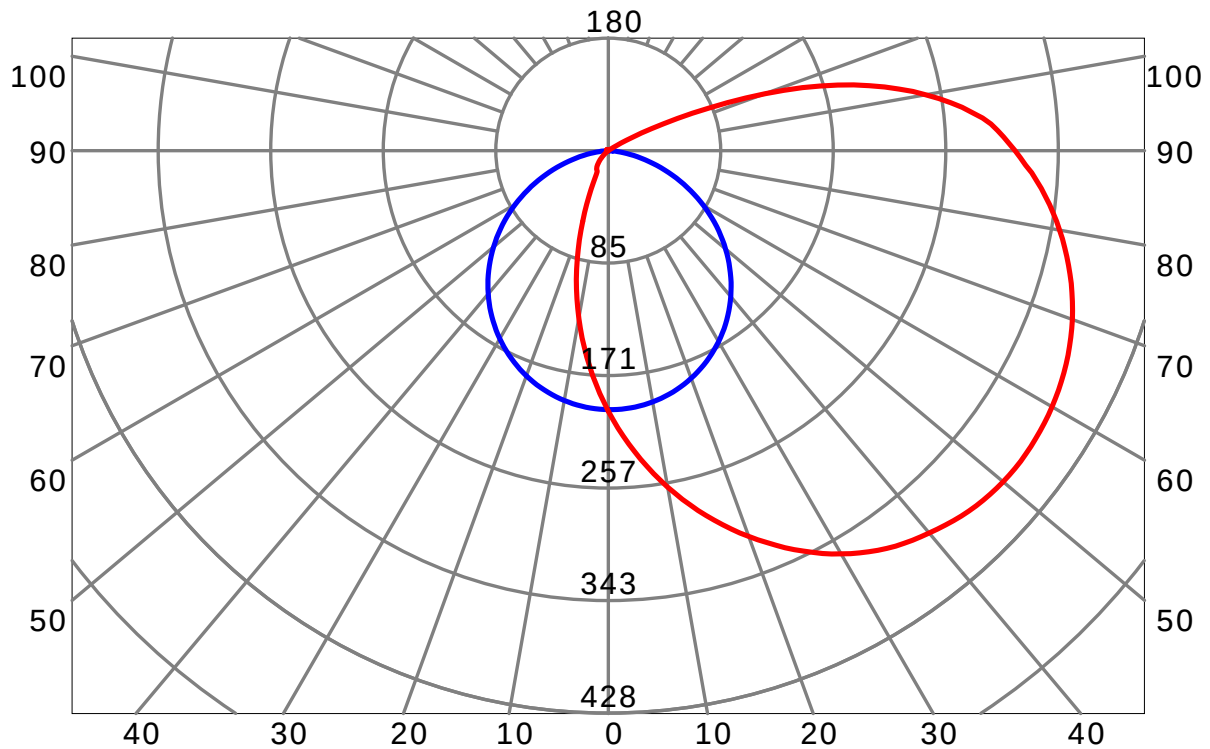
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

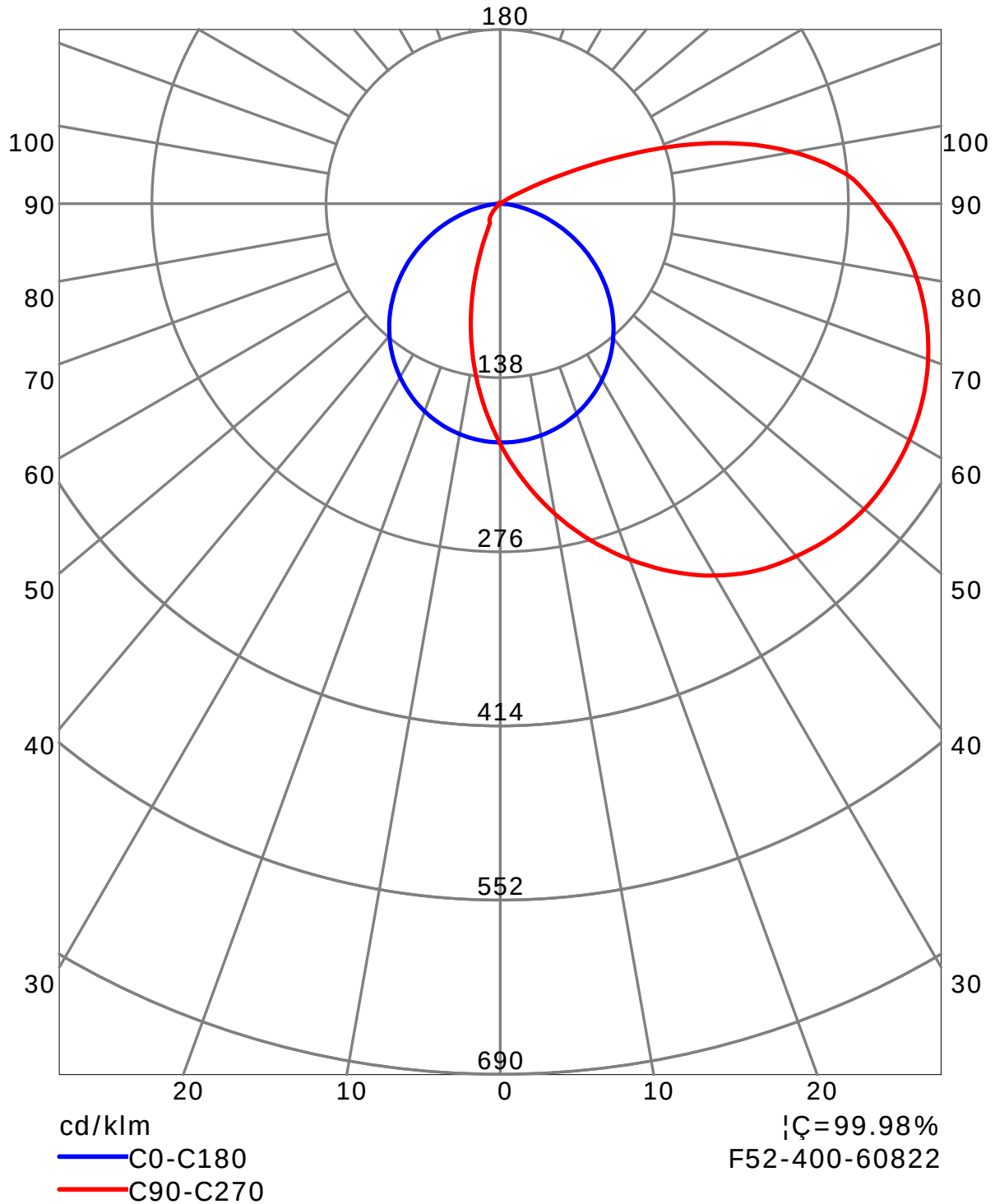
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-2000
Distance: 7.970 m
Humidity:
Inspector:

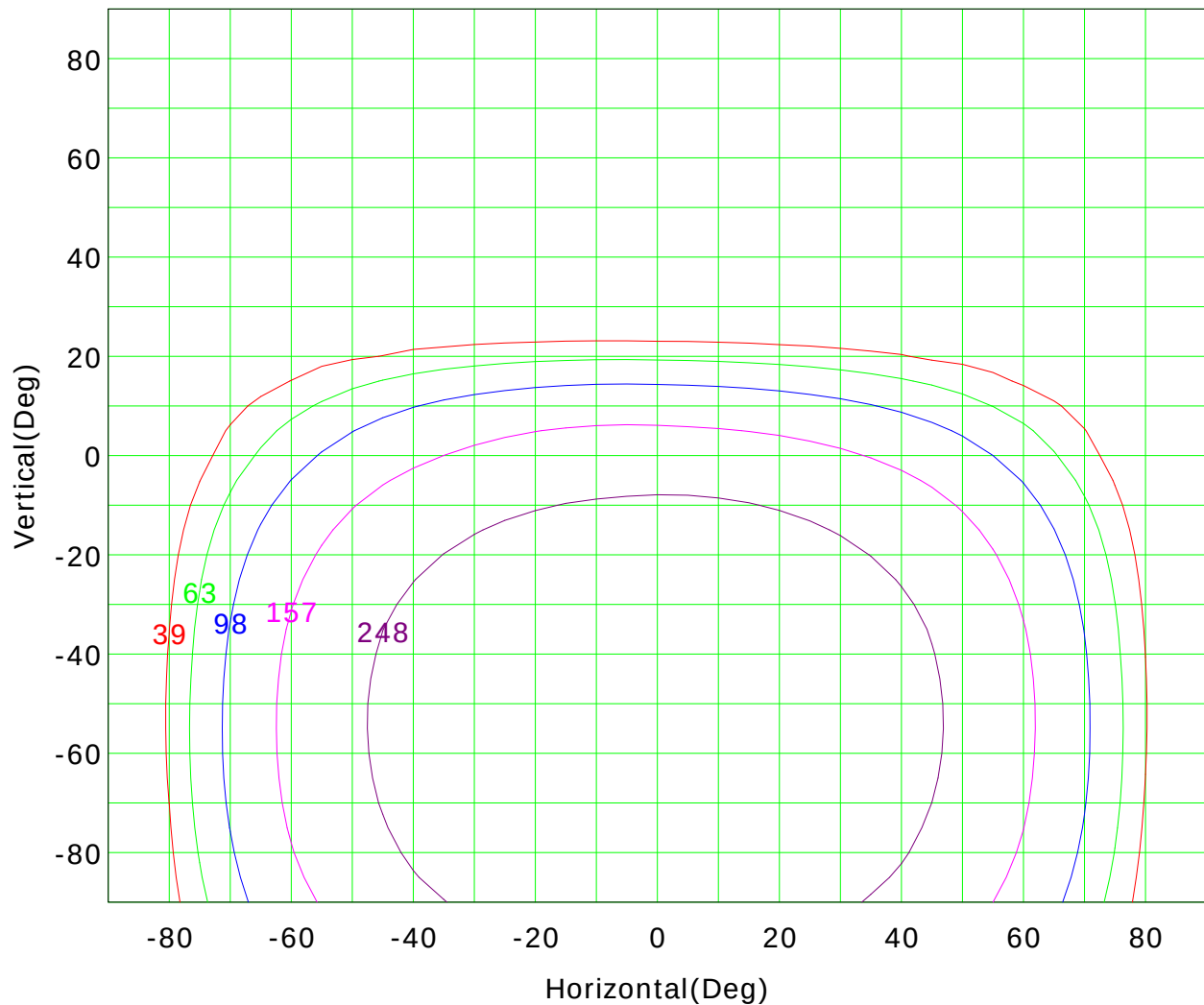
Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-2000
Distance: 7.970 m
Humidity:
Inspector:

Isocandela (rectangle)



I_{max} (100%): 393 cd

(10%):	39 cd	(16%):	63 cd
(25%):	98 cd	(40%):	157 cd
(63%):	248 cd	(100%):	393 cd

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

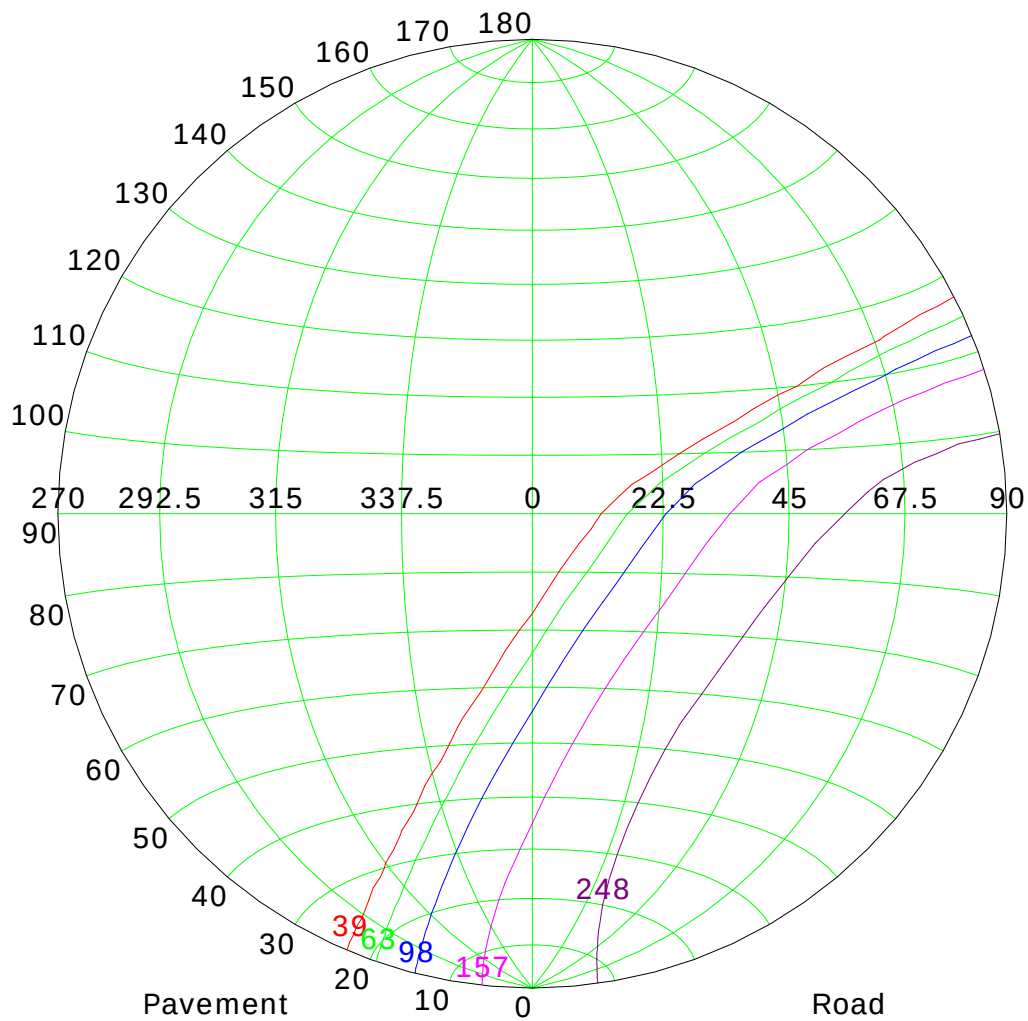
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 393 cd

(10%):	39 cd	(16%):	63 cd
(25%):	98 cd	(40%):	157 cd
(63%):	248 cd	(100%):	393 cd

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

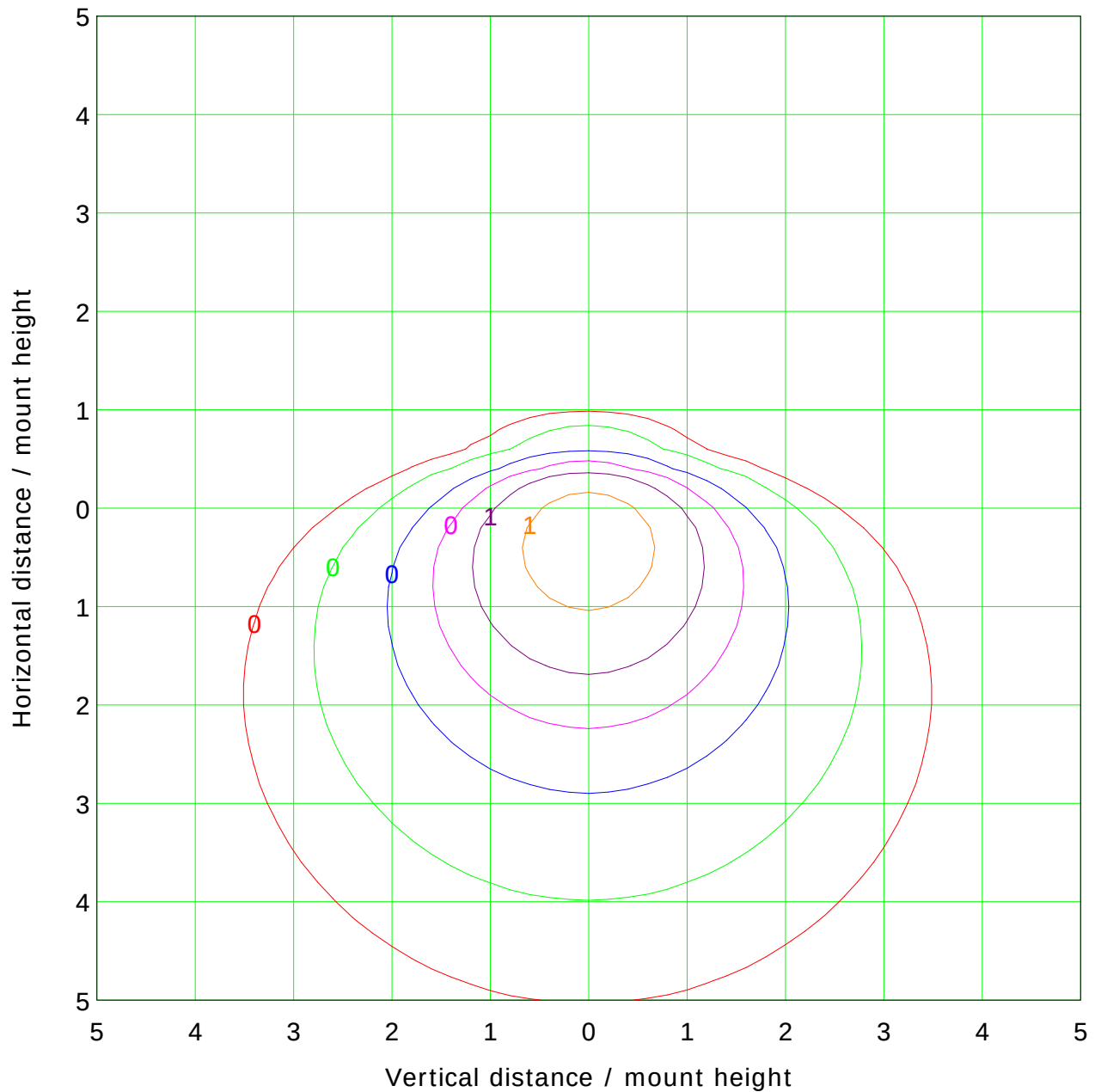
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 2.6 lx

(1%): 0.0 lx	(2%): 0.1 lx
(5%): 0.1 lx	(10%): 0.3 lx
(20%): 0.5 lx	(50%): 1.3 lx
(100%): 2.6 lx	

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-2000

Distance: 7.970 m

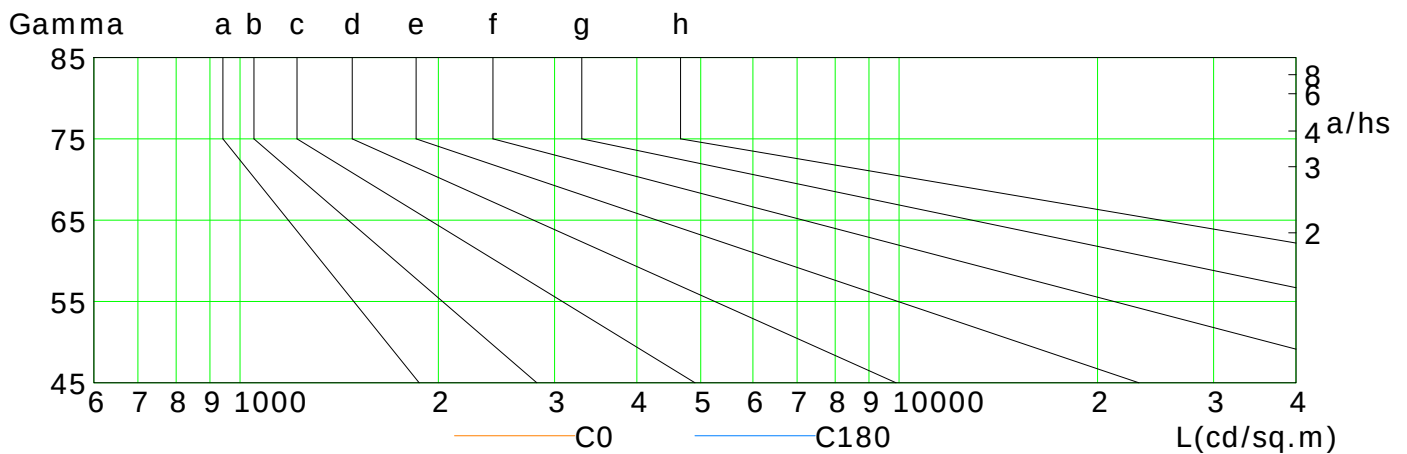
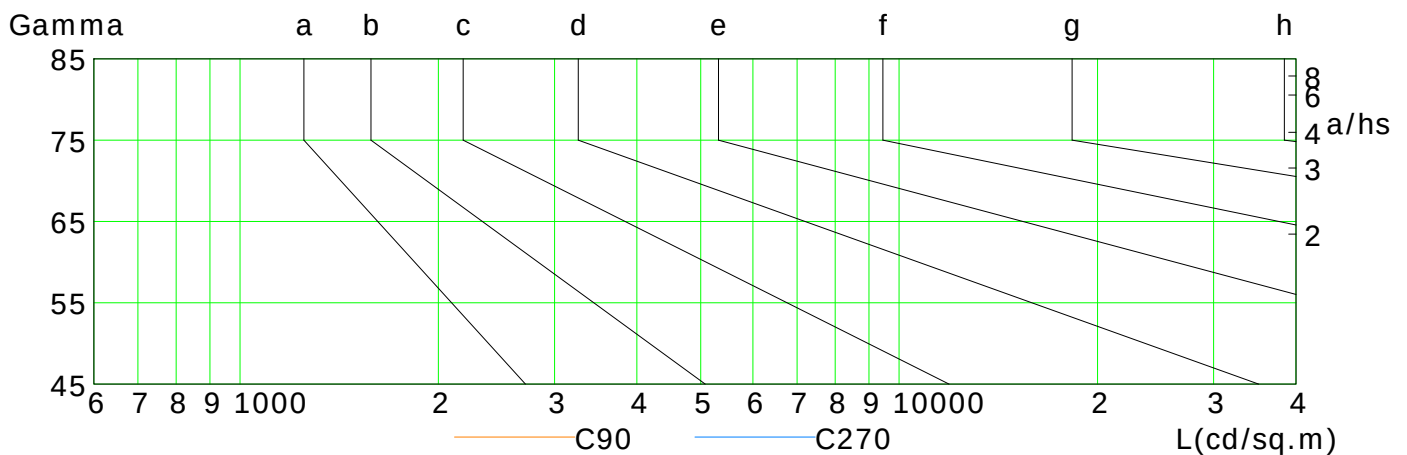
Humidity:

Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	132	117	101	84	66	49	32	17	5
C90	389	393	393	390	385	376	364	349	331
C180	129	114	98	82	65	48	31	17	5
C270	7	2	0	0	1	1	1	1	1

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

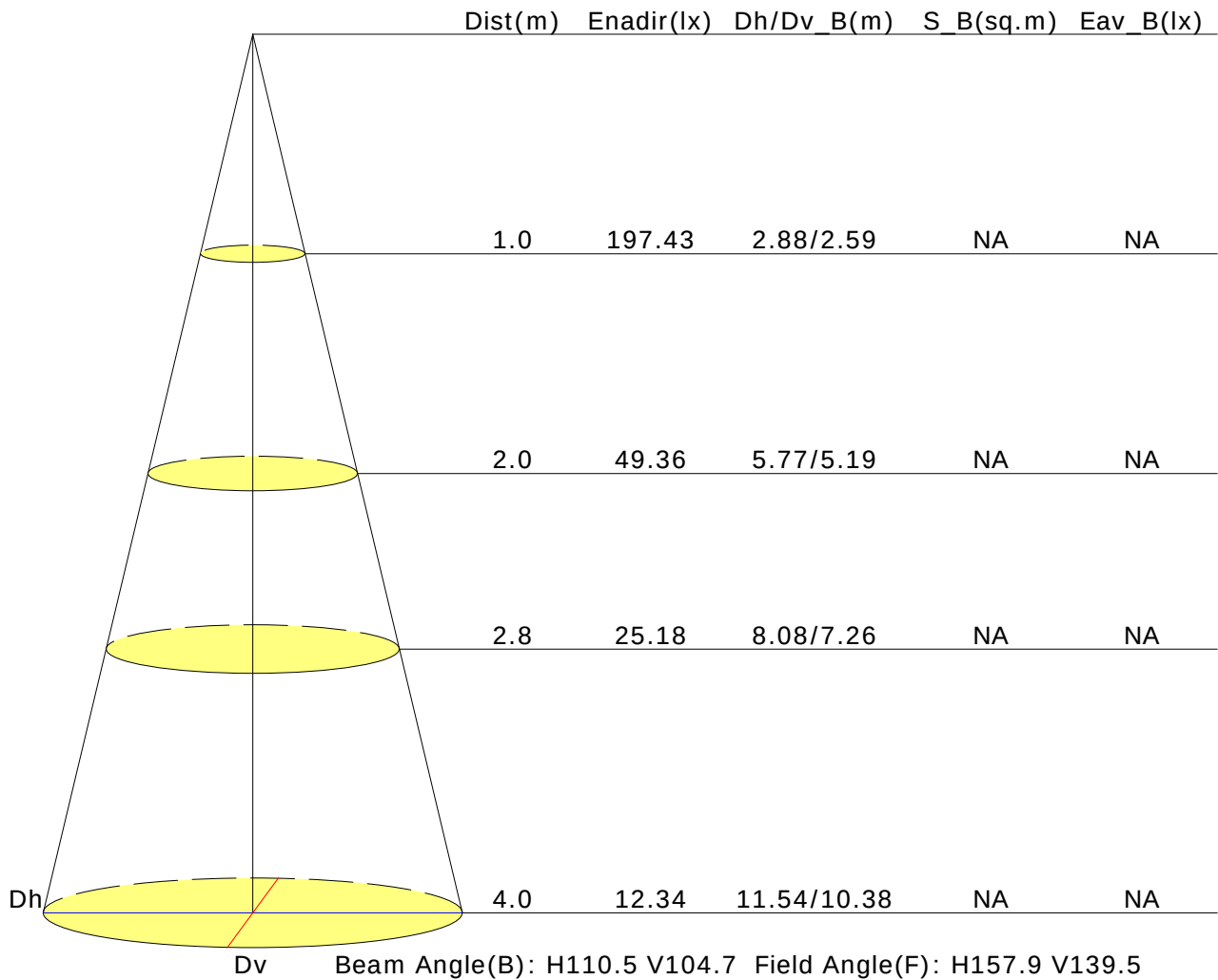
Test Device: GPM-2000

Distance: 7.970 m

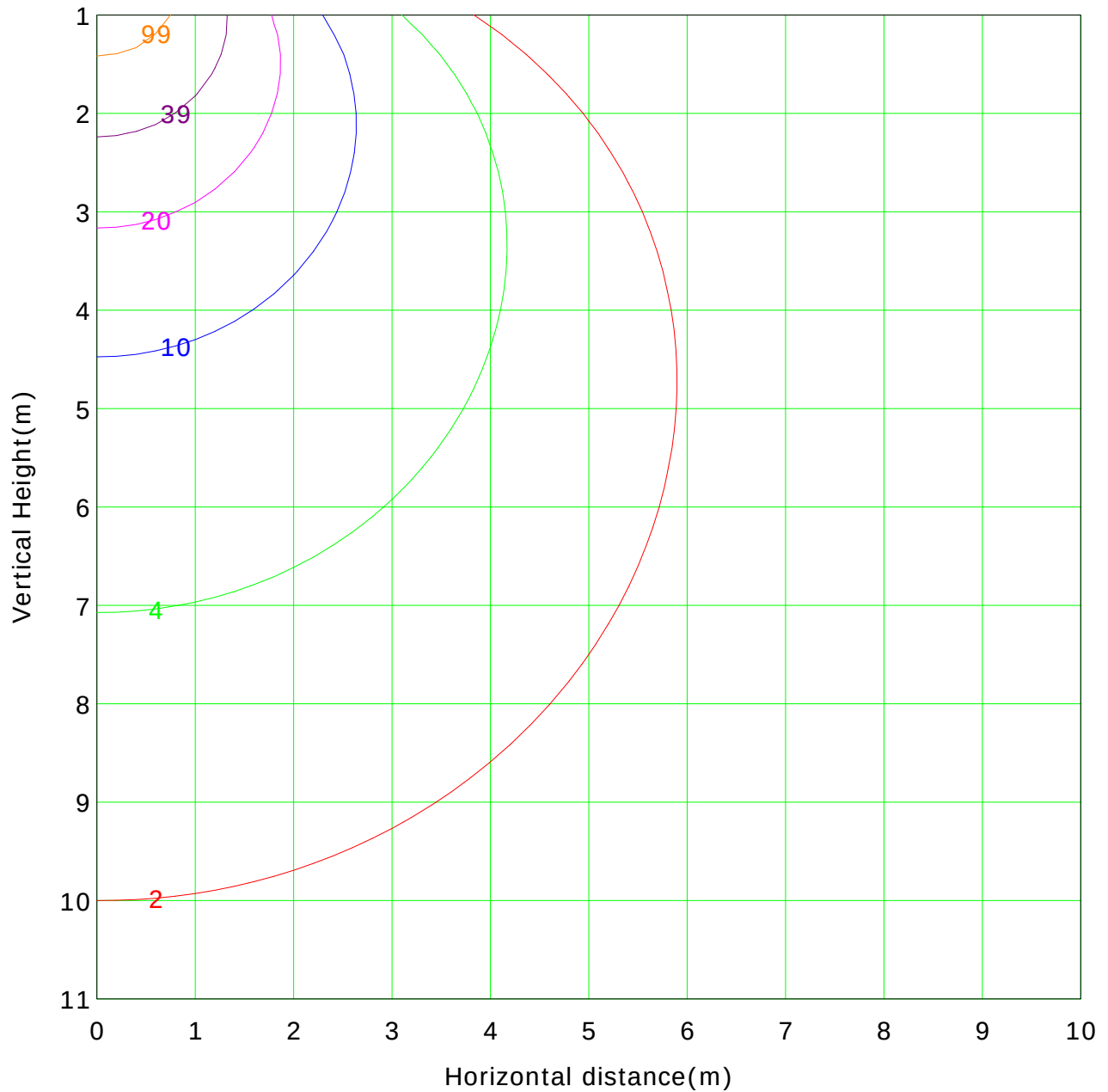
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 197.4 lx

— (1%): 2.0 lx	— (2%): 3.9 lx
— (5%): 9.9 lx	— (10%): 19.7 lx
— (20%): 39.5 lx	— (50%): 98.7 lx
— (100%): 197.4 lx	

C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-2000
Distance: 7.970 m
Humidity:
Inspector: