

Report No.:

Test Time: 04/10/2018 16:31

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-BB01-02 + LLD-02-FM

Lamp Description: F52-400-1208C2-W5

Number of Lamps: 1

Lumens per Lamp: 1000 lm

Voltage: 24.0 V

Current: 0.373 A

Power: 8.94 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 319.5 lm

Downward Ratio: 31.79%

Total Rated Lamp Lumens: 1000.0 lm

Efficiency: 31.95%

Upward Ratio: 0.17%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.9, 163.7, 162.2, 162.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.6, 112.4, 112.4, 112.4

Luminaire Efficacy Rating (LER): 35.79

Central Intensity: 111.38 cd

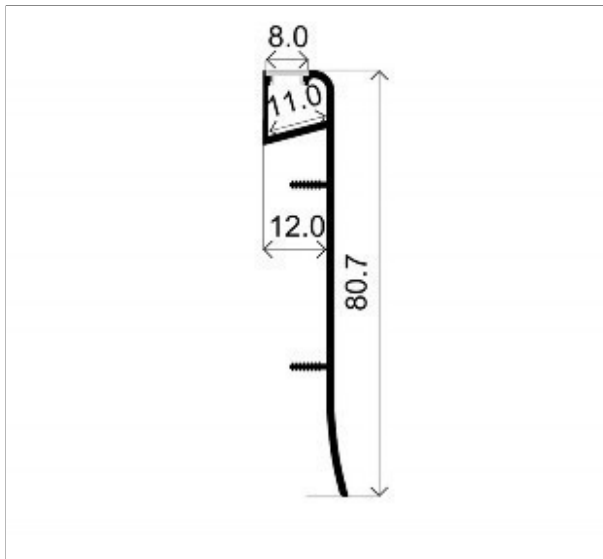
Max. Intensity: 111.42 cd

Pos of Max. Intensity: H30 V1

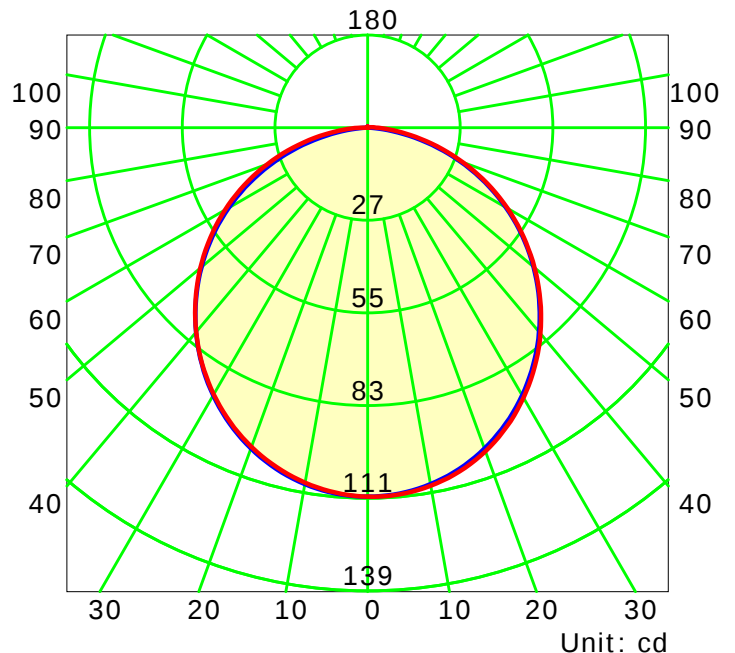
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.25

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

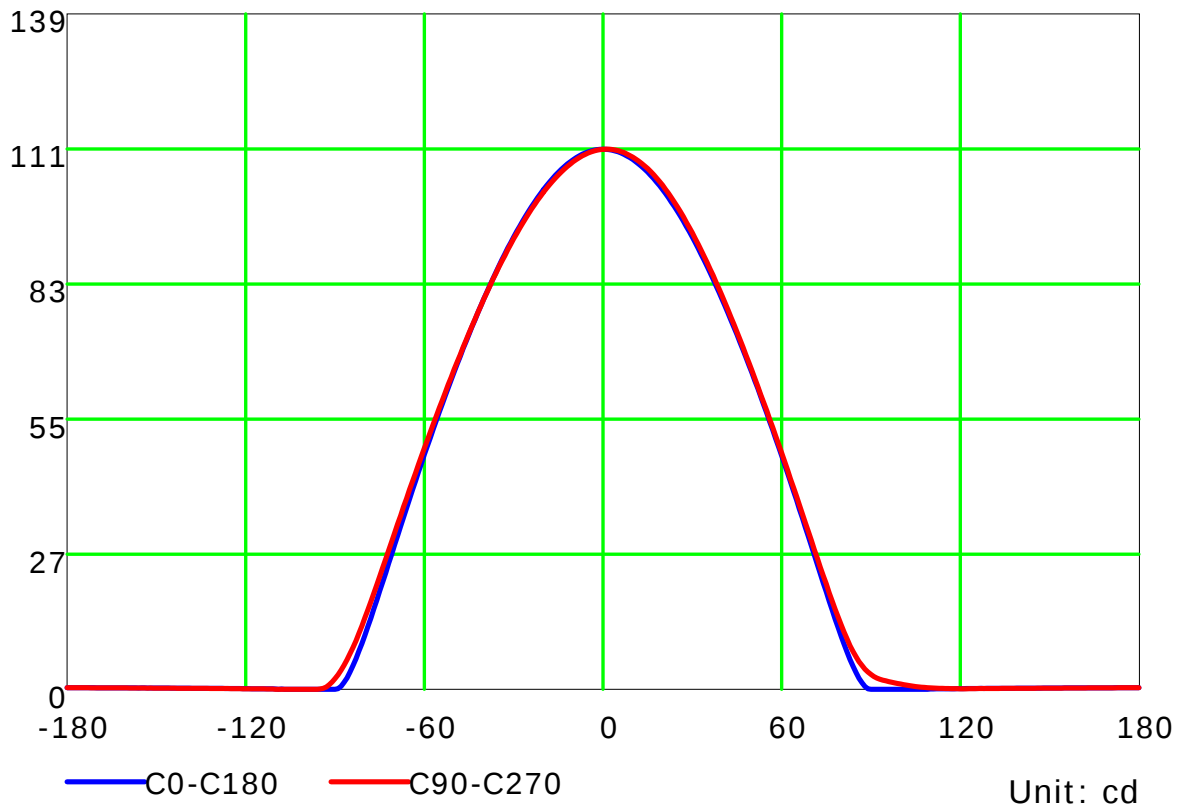
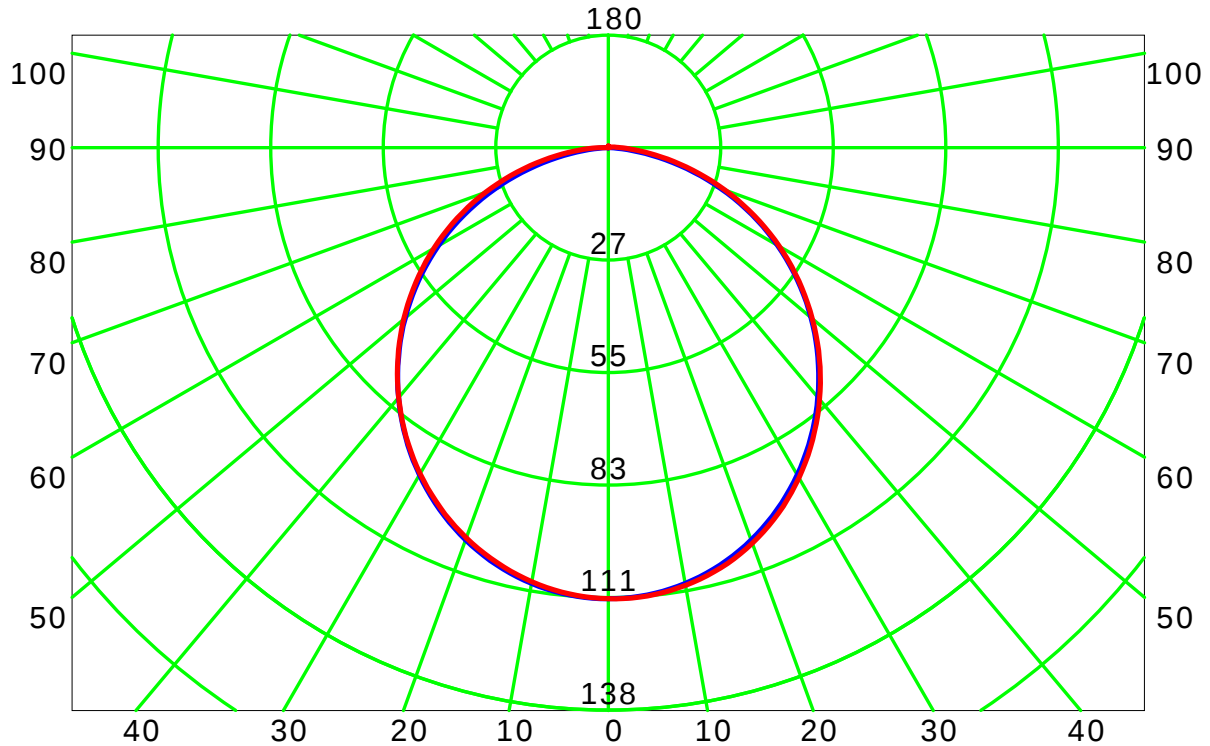
Test Device: GPM-2000

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

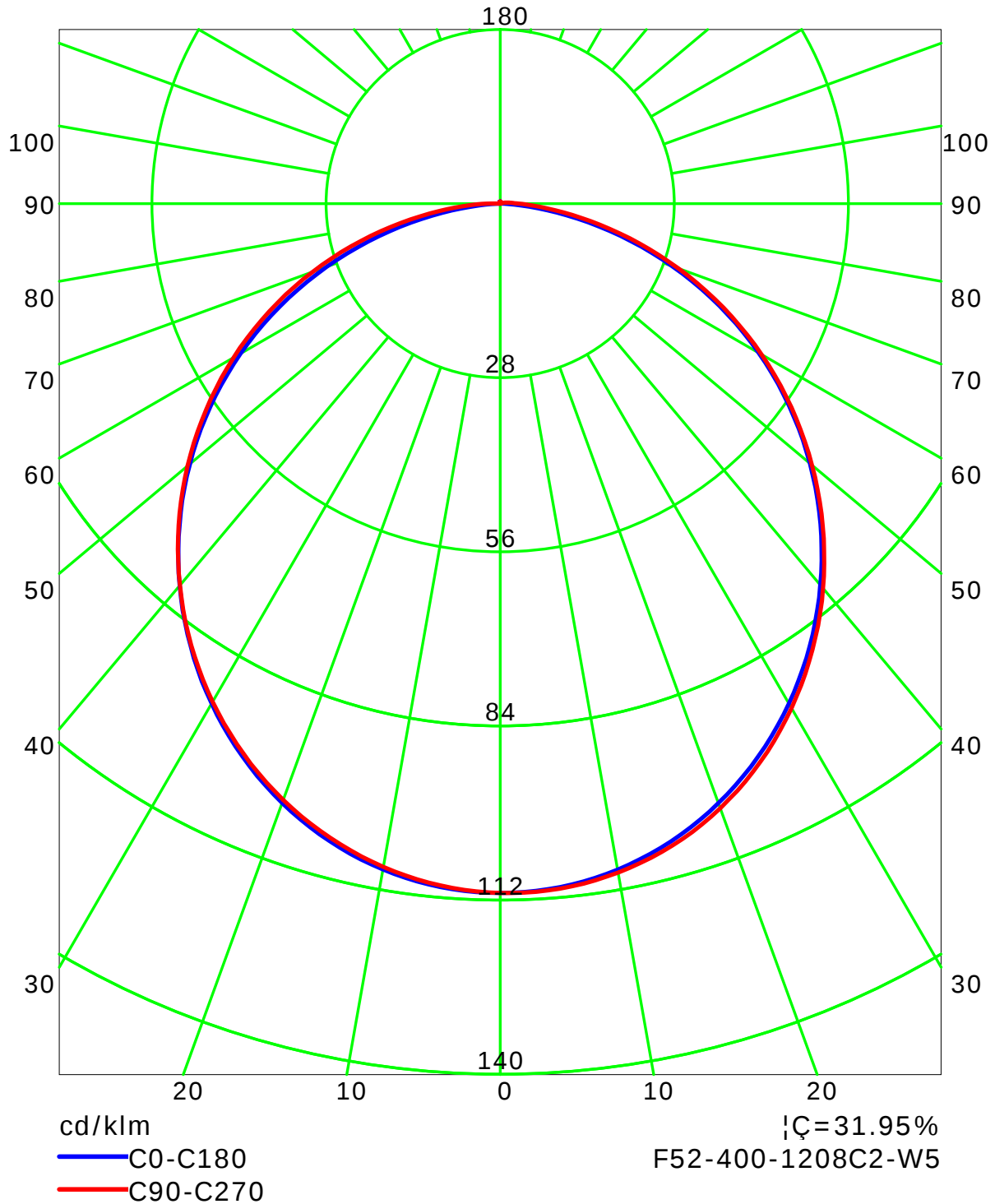
Test Device: GPM-2000

Distance: 7.970 m

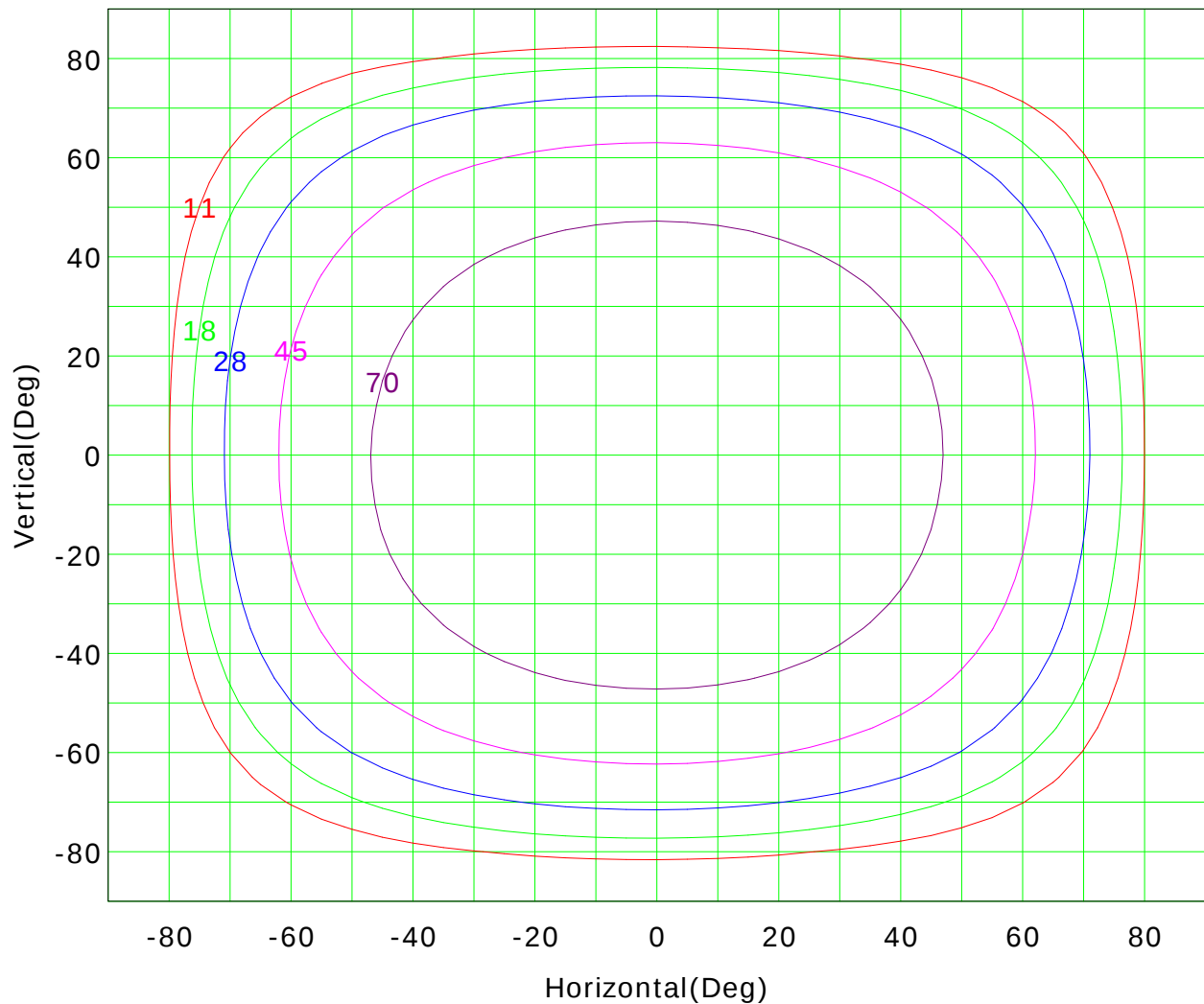
Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



Isocandela (rectangle)



I_{max} (100%): 111 cd

(10%):	11 cd	(16%):	18 cd
(25%):	28 cd	(40%):	45 cd
(63%):	70 cd	(100%):	111 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

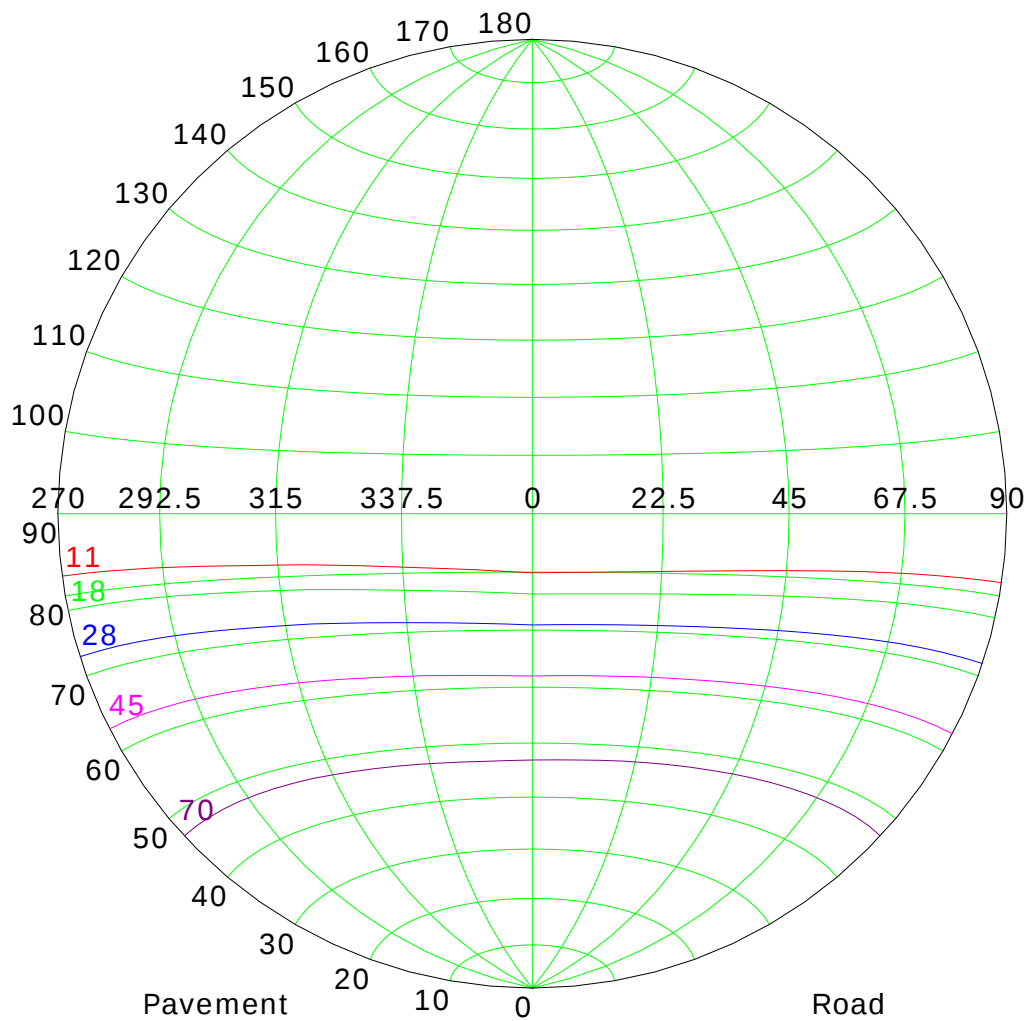
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 111 cd

(10%):	11 cd	(16%):	18 cd
(25%):	28 cd	(40%):	45 cd
(63%):	70 cd	(100%):	111 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

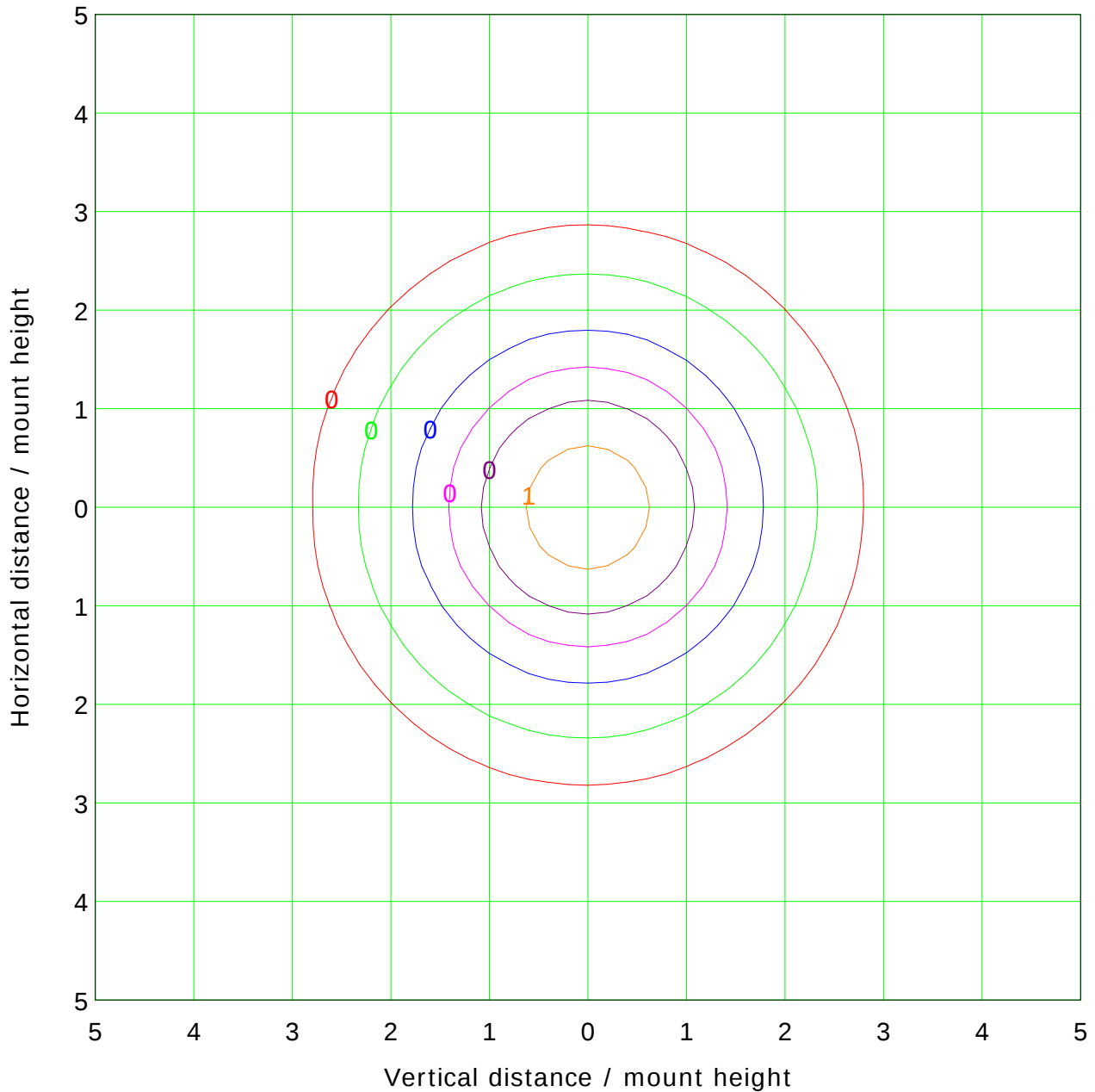
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 1.1 lx

(1%): 0.0 lx	(2%): 0.0 lx
(5%): 0.1 lx	(10%): 0.1 lx
(20%): 0.2 lx	(50%): 0.6 lx
(100%): 1.1 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

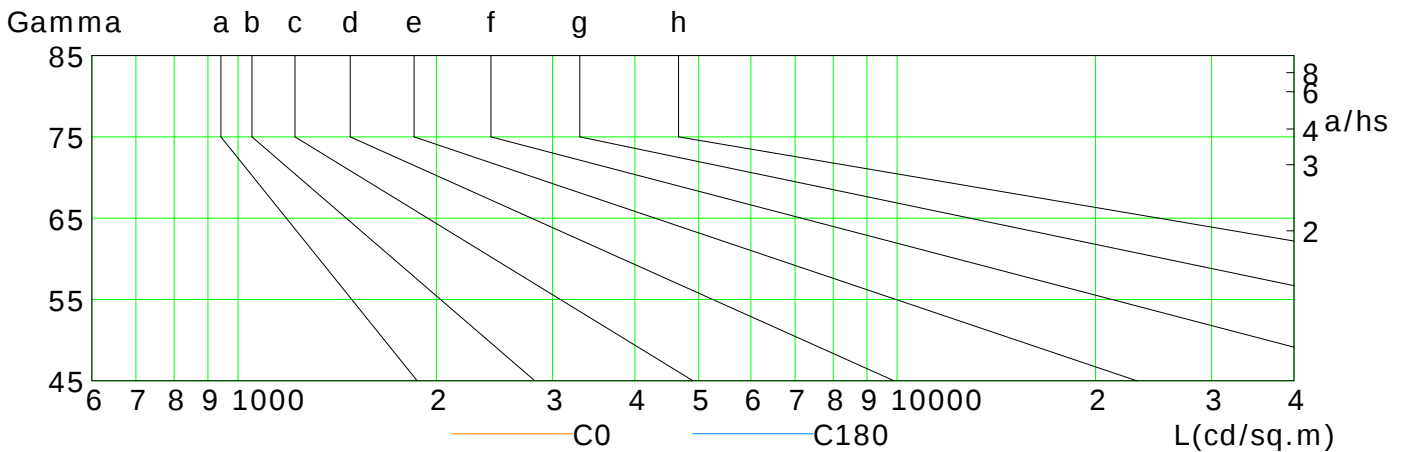
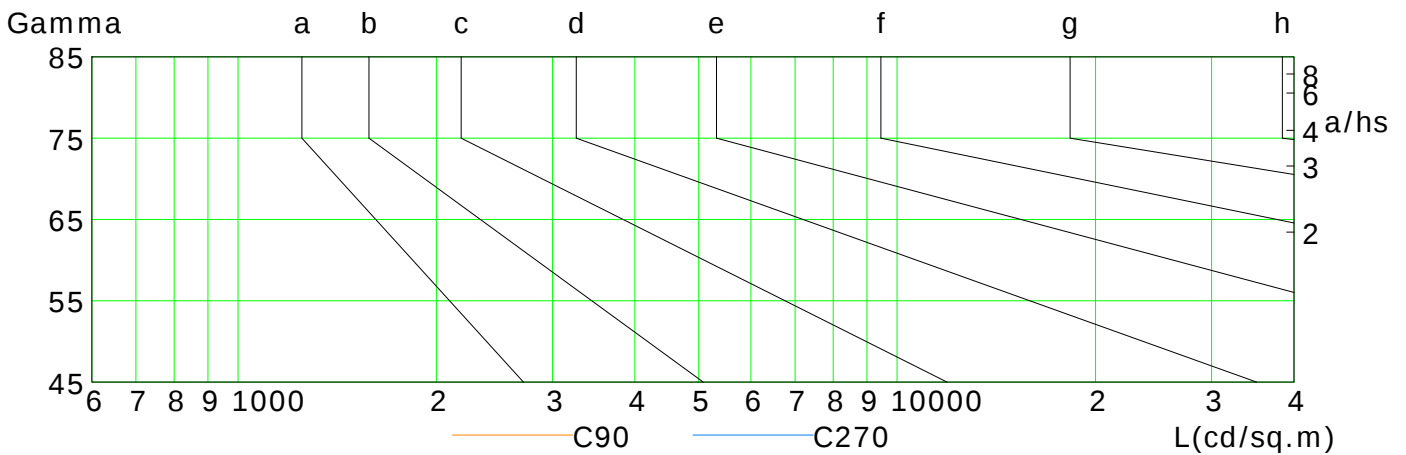
Humidity:

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	73	65	57	48	39	30	20	11	3
C90	74	66	57	49	40	31	22	13	7
C180	73	65	57	48	39	30	20	11	4
C270	73	66	58	50	41	32	23	15	7

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

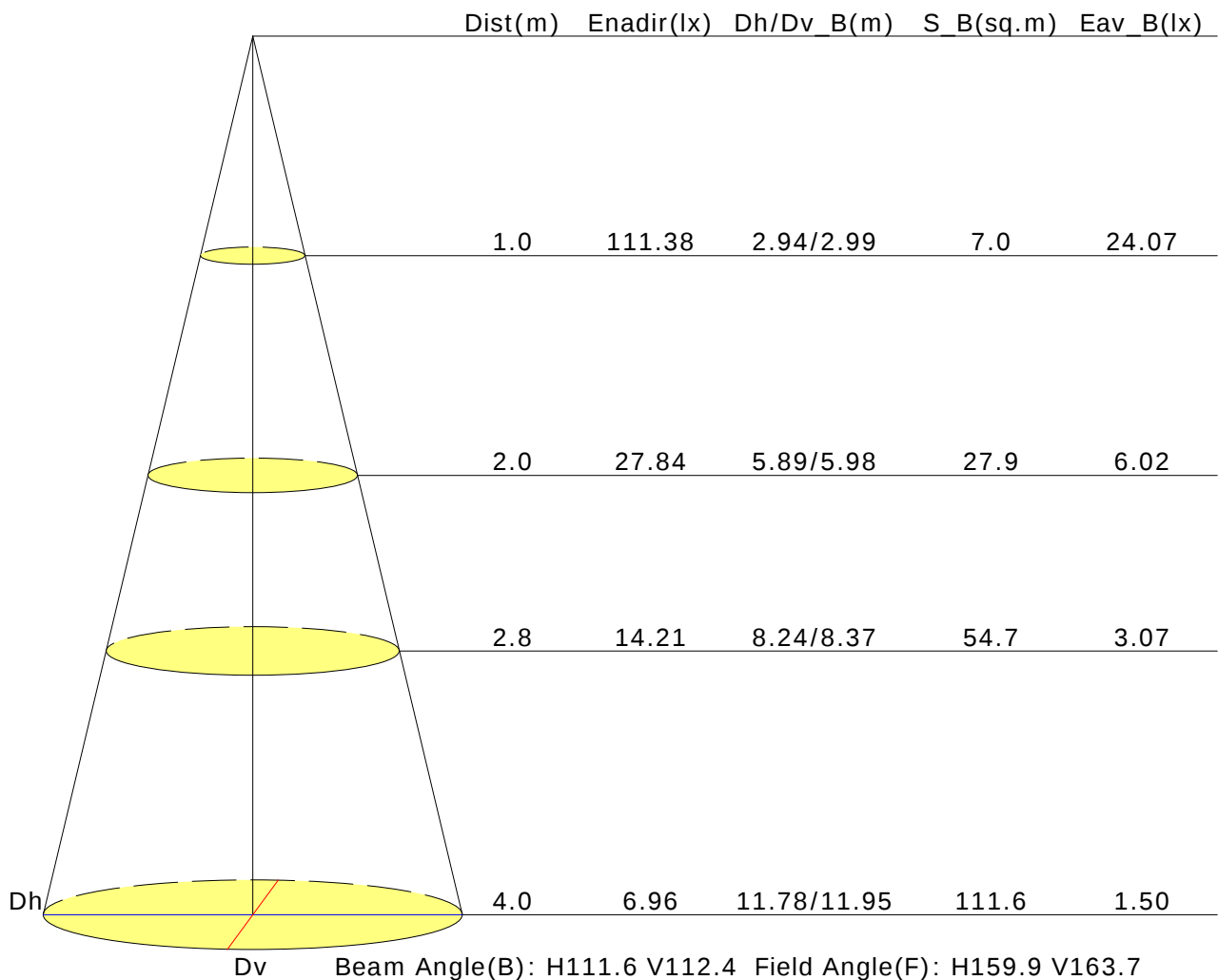
Test Device: GPM-2000

Distance: 7.970 m

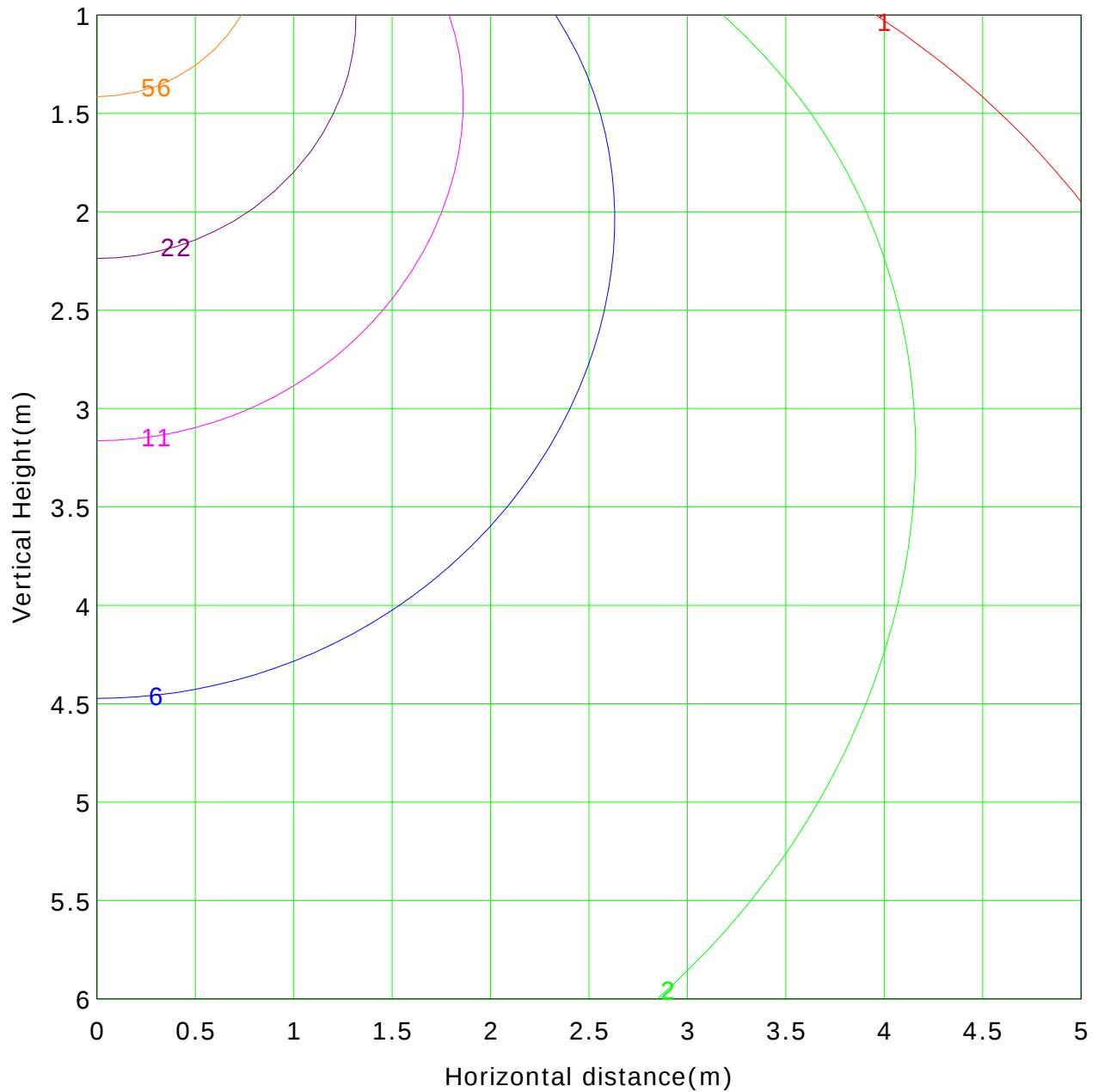
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 6.0m Max Lux: 111.4 lx

(1%): 1.1 lx	(2%): 2.2 lx
(5%): 5.6 lx	(10%): 11.1 lx
(20%): 22.3 lx	(50%): 55.7 lx
(100%): 111.4 lx	

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Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-BB01-02 + LLD-02-FS

Lamp Description: F52-400-1208C2-W5

Number of Lamps: 1

Lumens per Lamp: 1000 lm

Voltage: 24.0 V

Current: 0.372 A

Power: 8.92 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 306.3 lm

Downward Ratio: 30.40%

Total Rated Lamp Lumens: 1000.0 lm

Efficiency: 30.63%

Upward Ratio: 0.23%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.3, 167.5, 165.8, 165.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.8, 110.7, 110.6, 110.6

Luminaire Efficacy Rating (LER): 34.39

Central Intensity: 106.71 cd

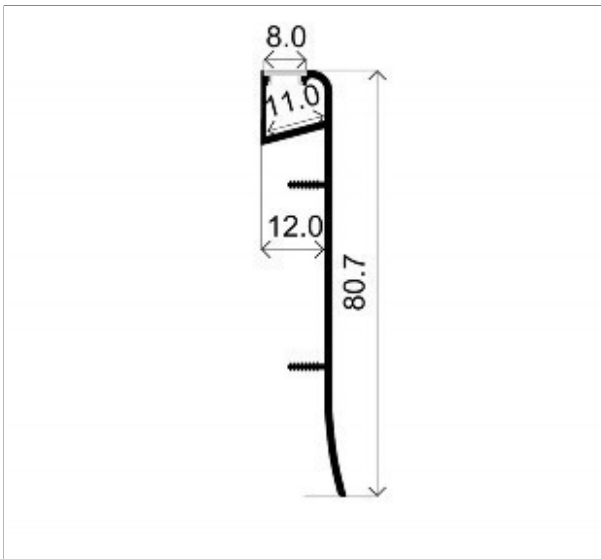
Max. Intensity: 106.71 cd

Pos of Max. Intensity: H0 V0

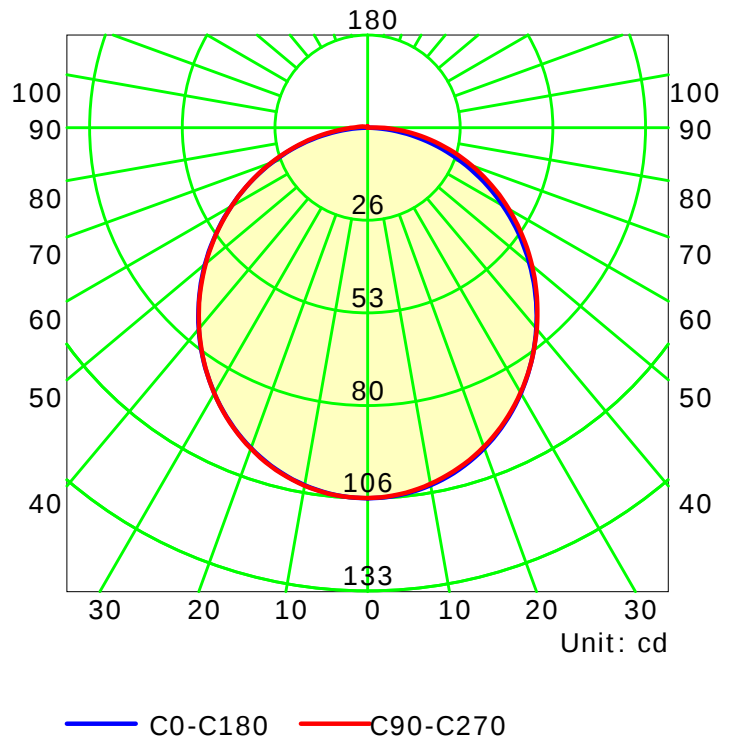
S/MH(C0/C180): 1.23

S/MH(C90/C270): 1.23

Picture Of Luminaire



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

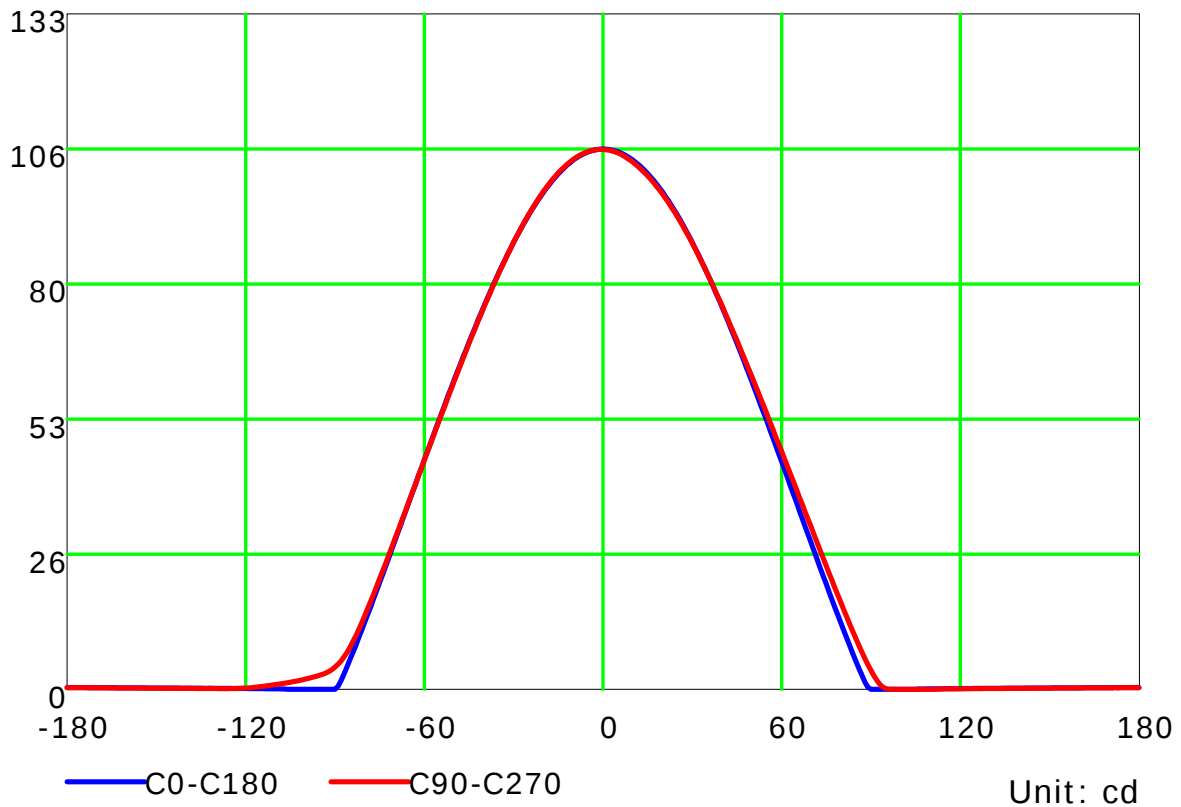
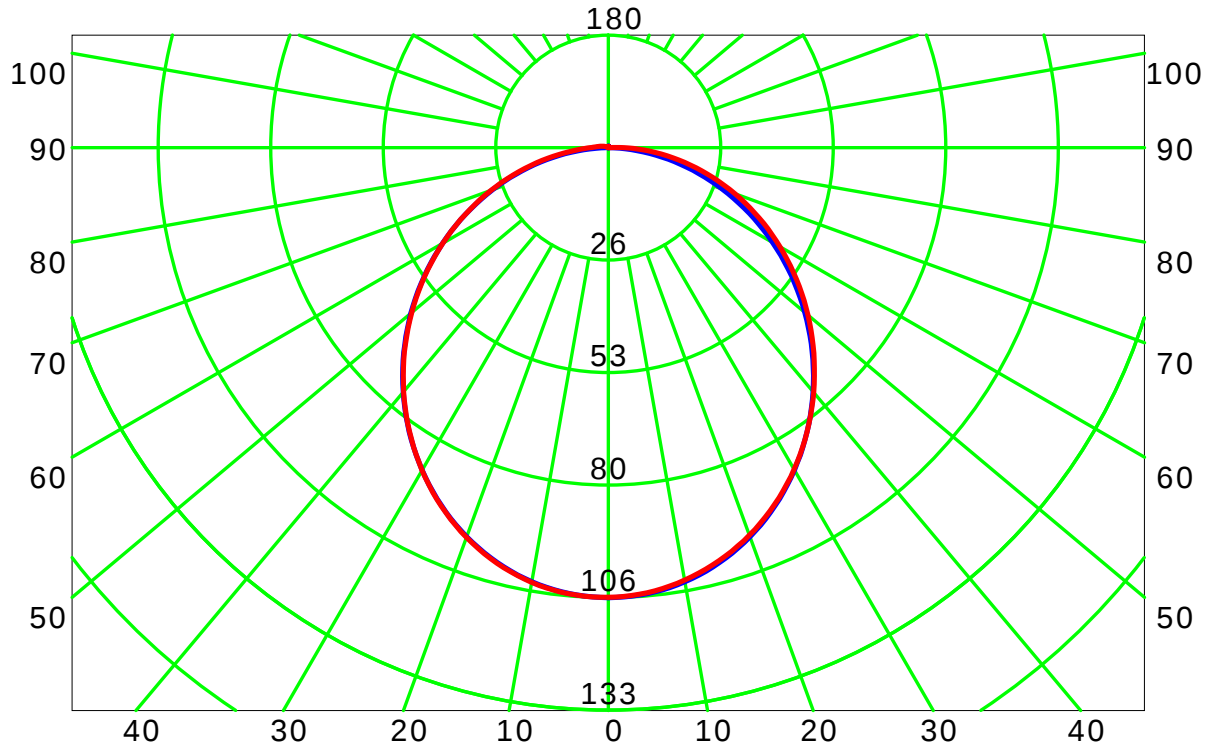
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

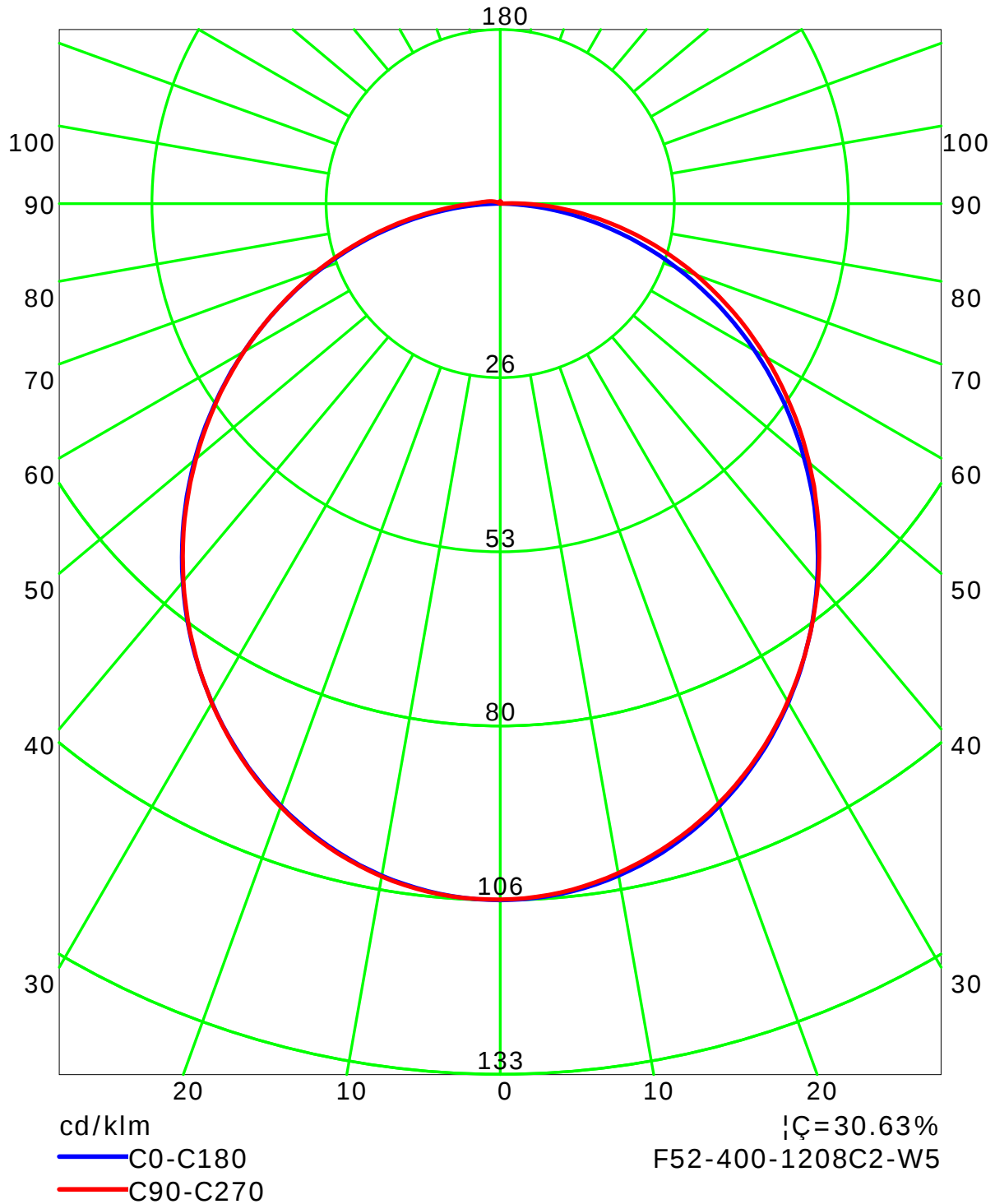
Test Device: GPM-2000

Distance: 7.970 m

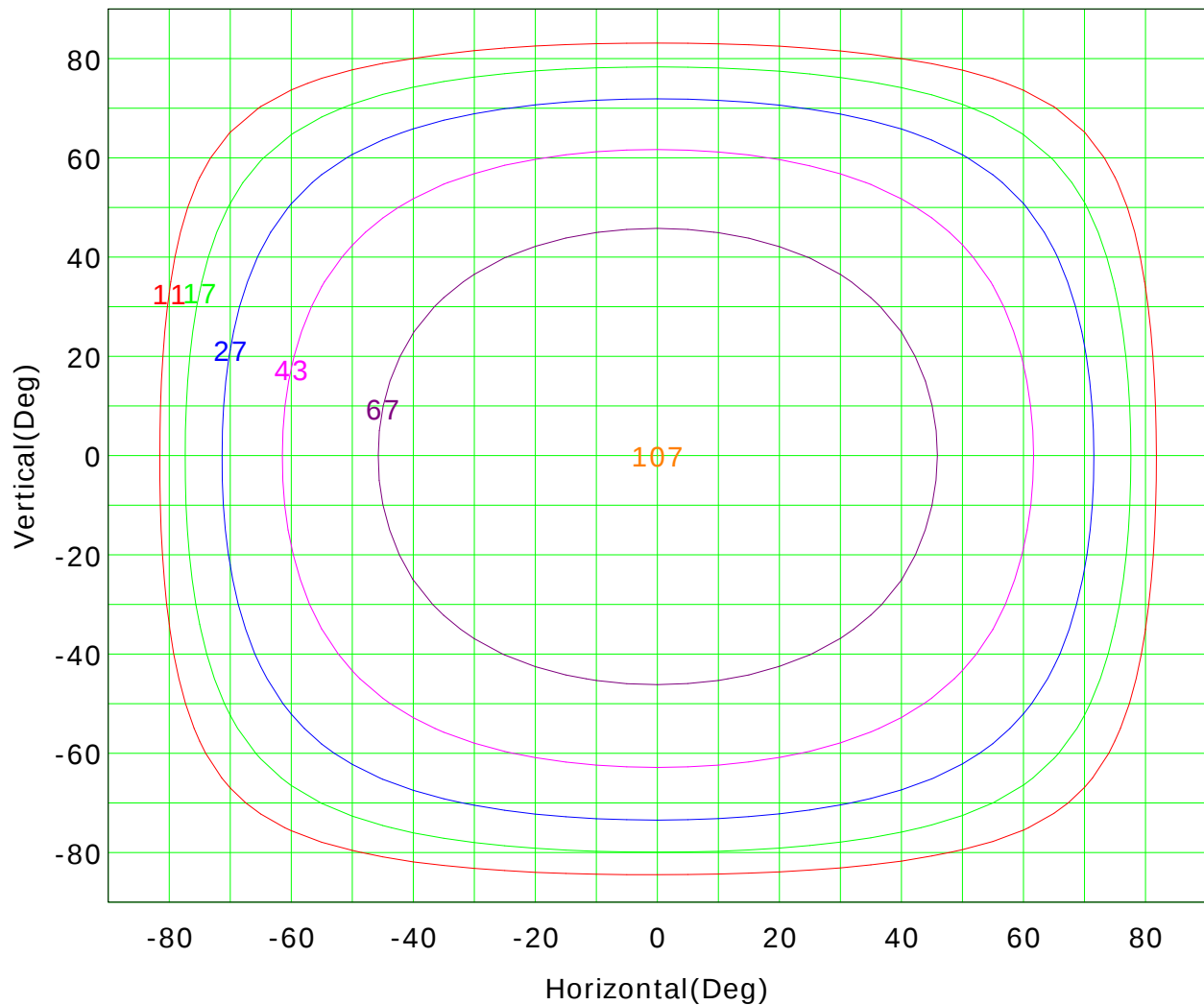
Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



Isocandela (rectangle)



I_{max} (100%): 107 cd

(10%):	11 cd	(16%):	17 cd
(25%):	27 cd	(40%):	43 cd
(63%):	67 cd	(100%):	107 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

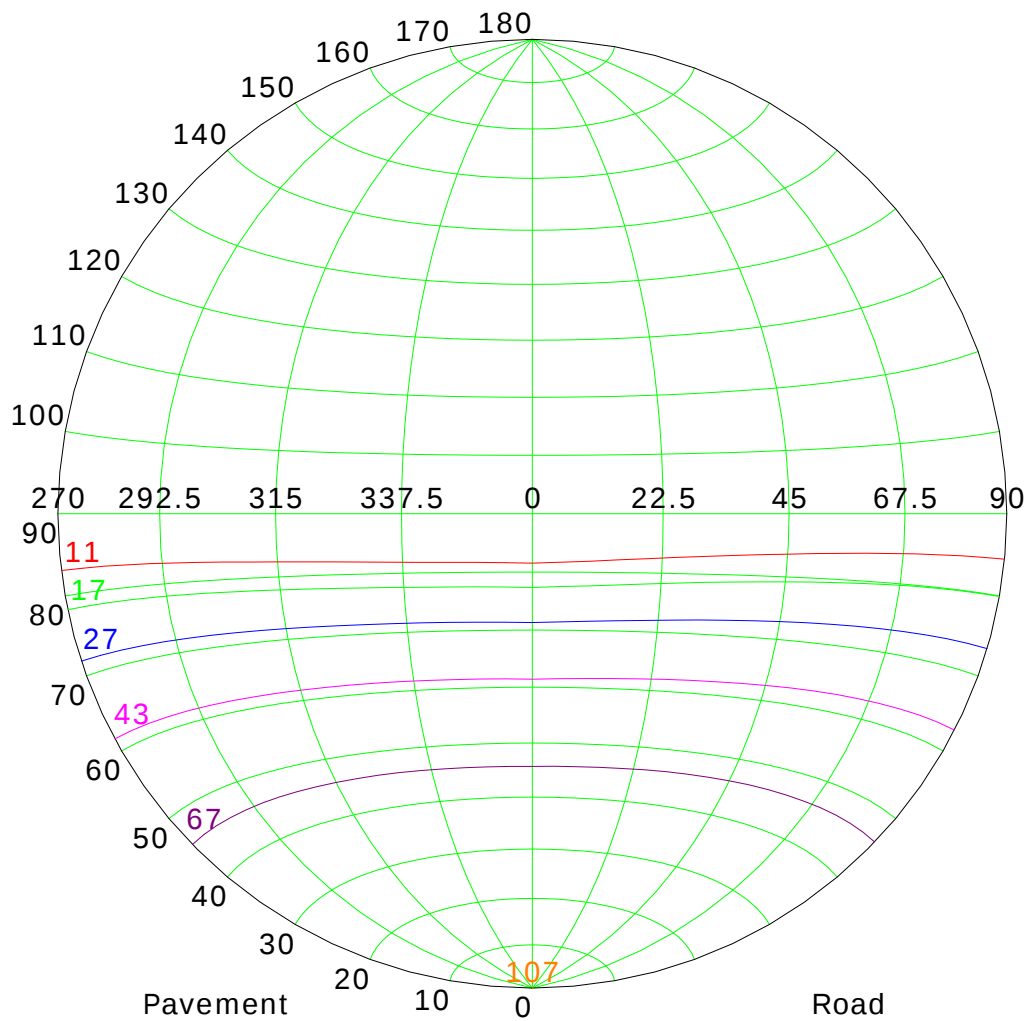
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 107 cd

(10%):	11 cd	(16%):	17 cd
(25%):	27 cd	(40%):	43 cd
(63%):	67 cd	(100%):	107 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

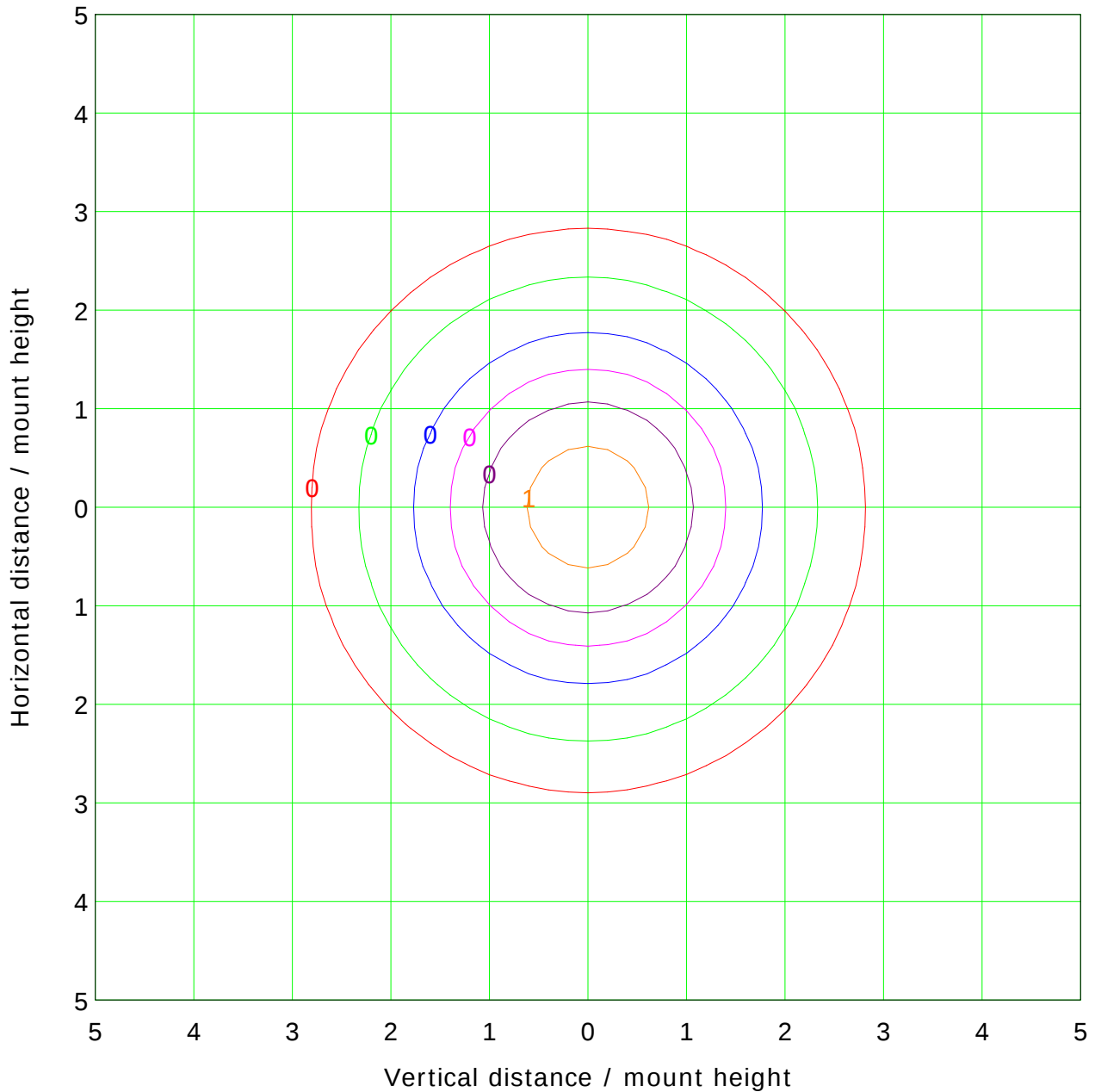
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 1.1 lx

(1%): 0.0 lx	(2%): 0.0 lx
(5%): 0.1 lx	(10%): 0.1 lx
(20%): 0.2 lx	(50%): 0.5 lx
(100%): 1.1 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

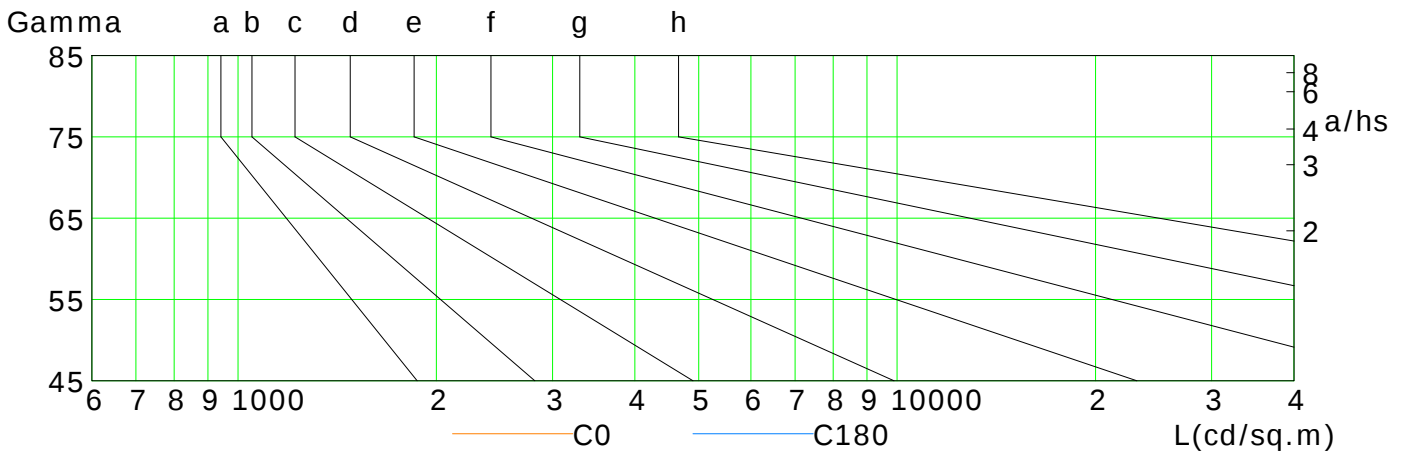
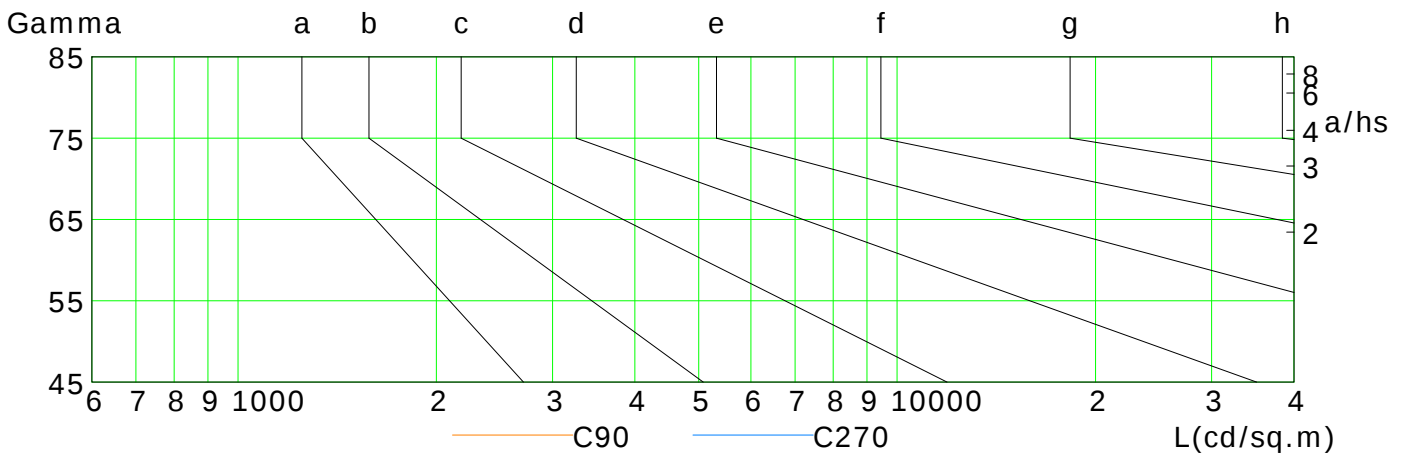
Humidity:

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	68	61	53	45	37	29	21	13	5
C90	69	62	54	47	39	32	24	17	10
C180	69	61	53	45	37	29	21	13	6
C270	68	61	53	45	37	30	22	15	8

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

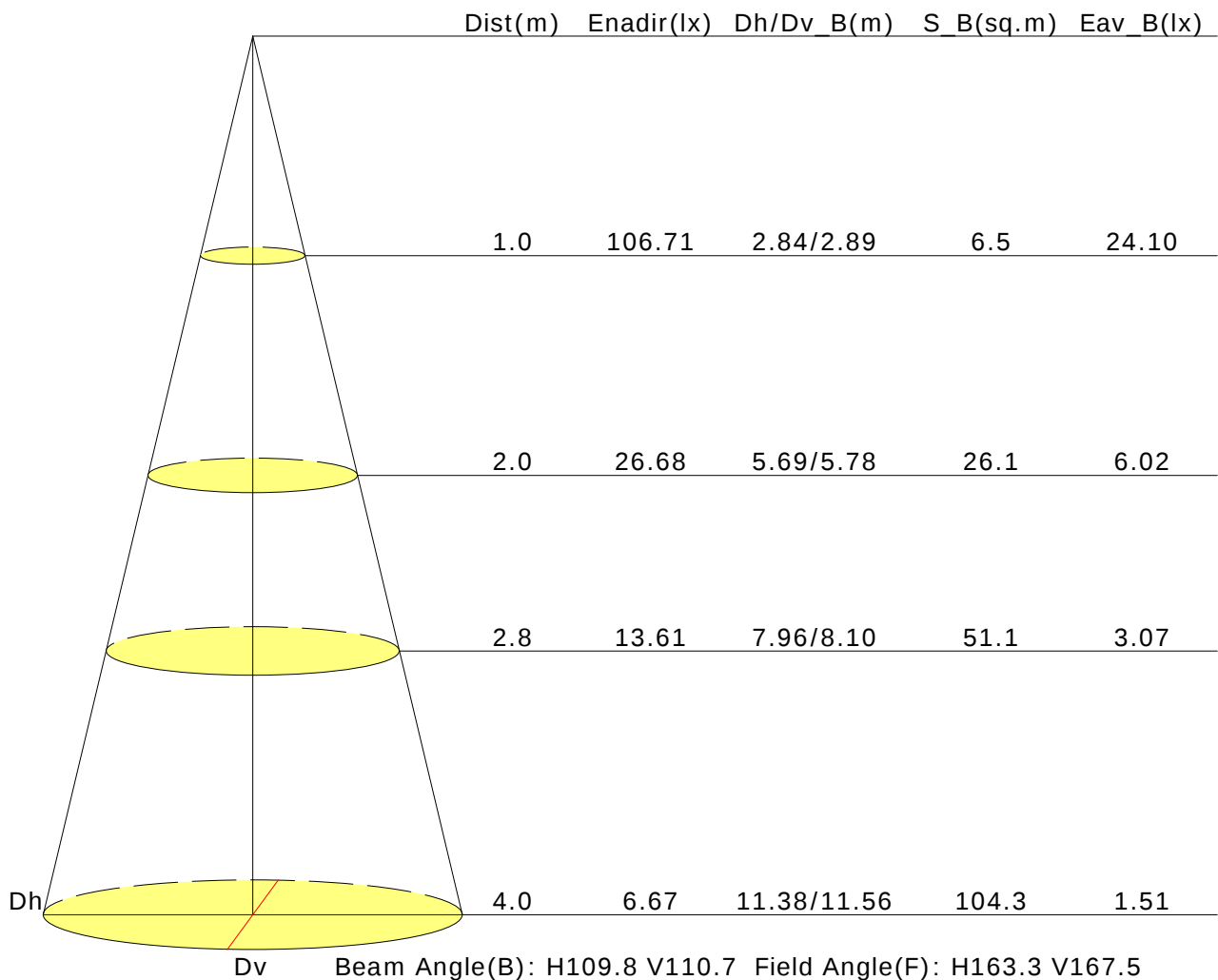
Test Device: GPM-2000

Distance: 7.970 m

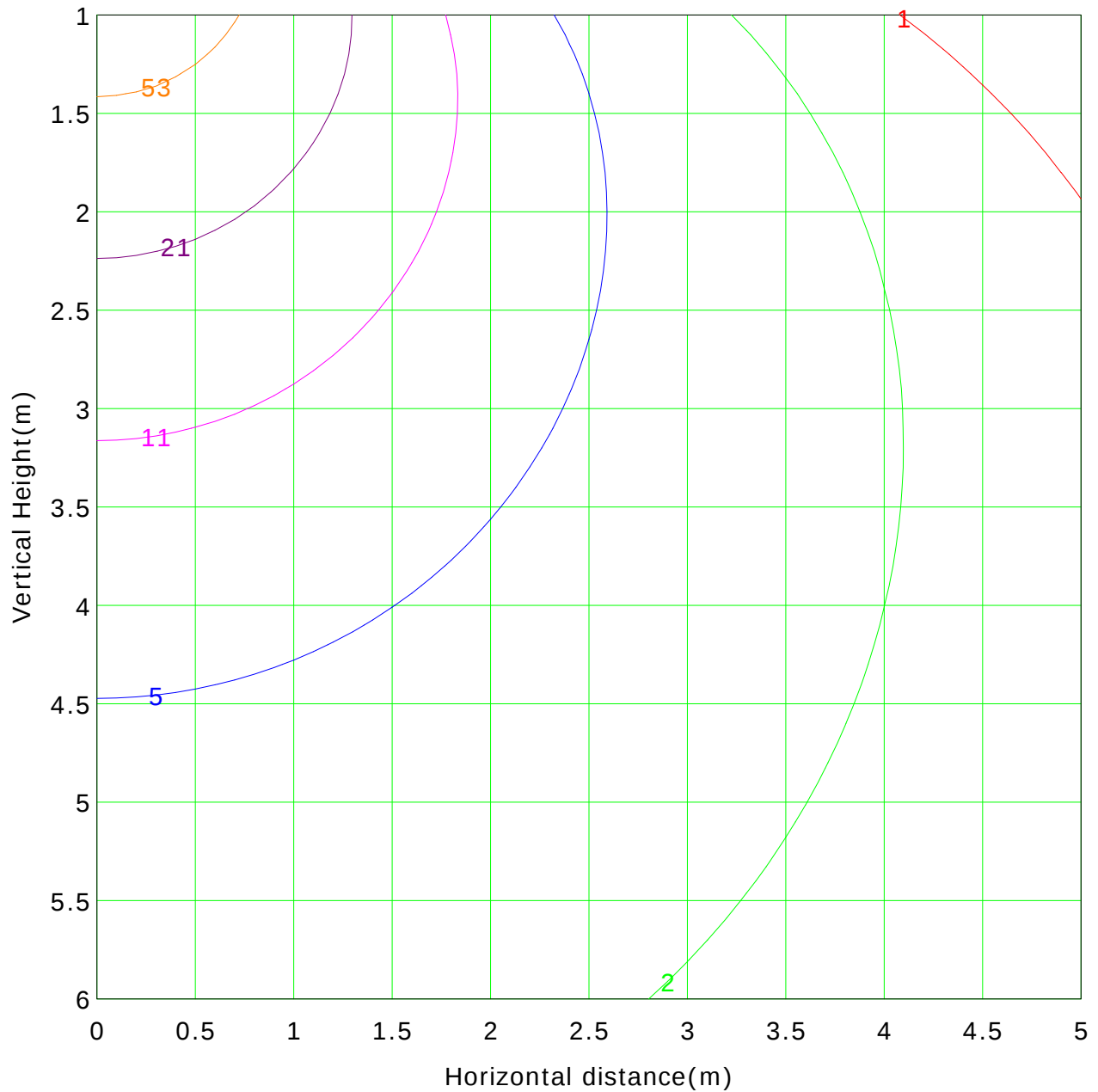
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 6.0m Max Lux: 106.7 lx

(1%): 1.1 lx	(2%): 2.1 lx
(5%): 5.3 lx	(10%): 10.7 lx
(20%): 21.3 lx	(50%): 53.4 lx
(100%): 106.7 lx	