

Report No.:

Test Time: 01/08/2019 11:02

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW10-05 + LLD-05-FK

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1271 lm

Voltage: 24.0 V

Current: 0.598 A

Power: 14.35 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 1270.9 lm

Downward Ratio: 98.36%

Total Rated Lamp Lumens: 1271.0 lm

Efficiency: 99.99%

Upward Ratio: 1.63%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 153.7, 113.2, 117.3, 116.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.1, 72.9, 86.6, 86.8

Luminaire Efficacy Rating (LER): 88.62

Central Intensity: 517.05 cd

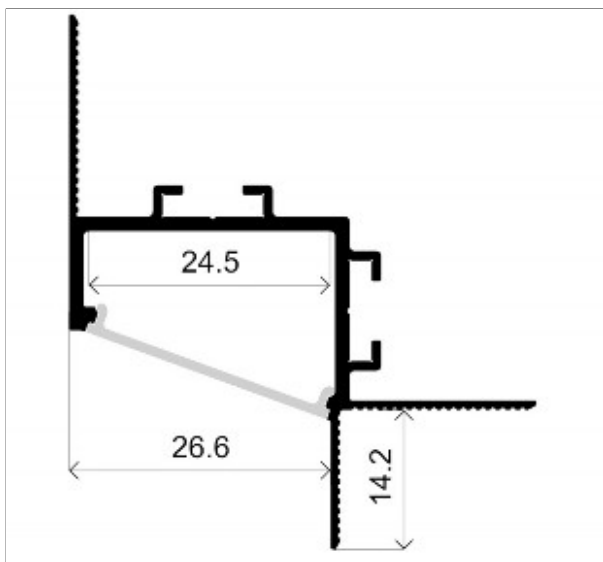
Max. Intensity: 629.24 cd

Pos of Max. Intensity: H270 V26

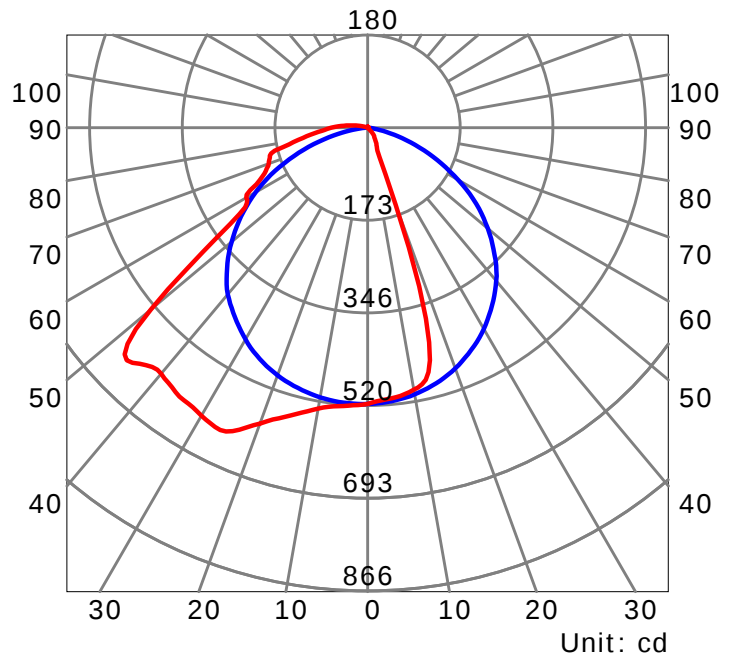
S/MH(C0/C180): 1.28

S/MH(C90/C270): 0.85

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

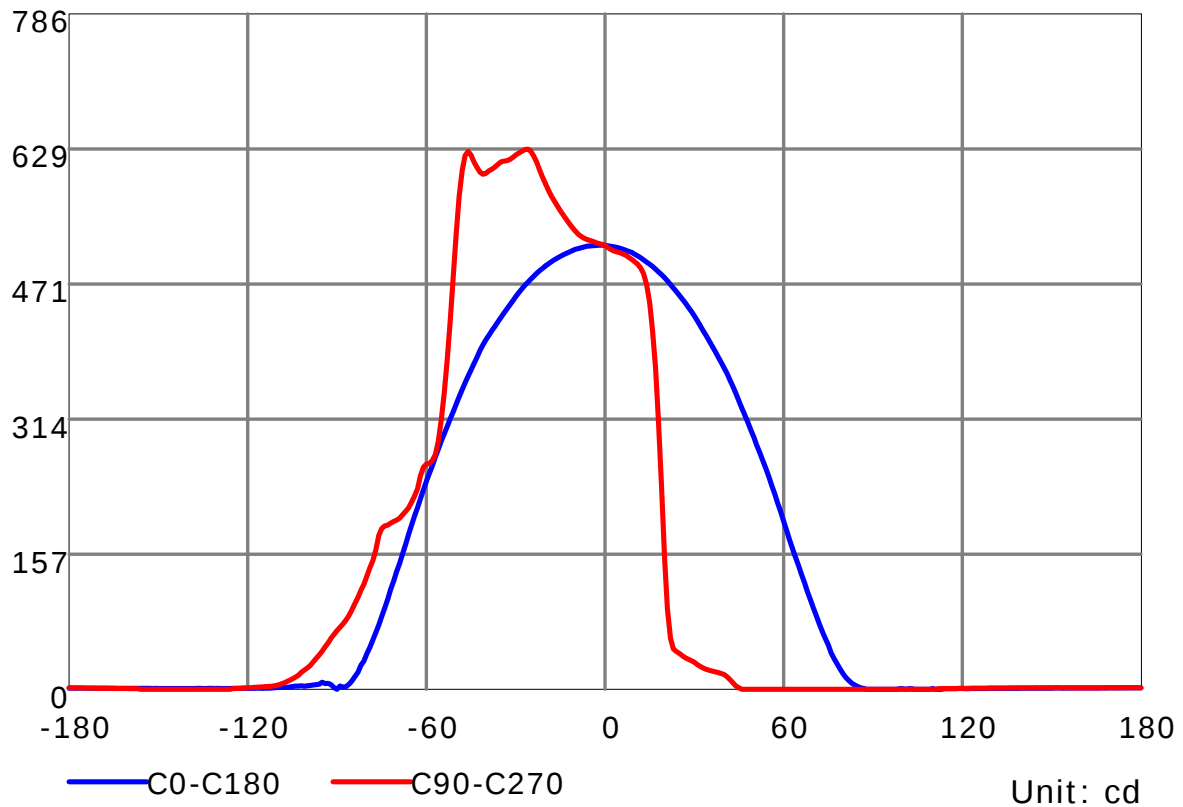
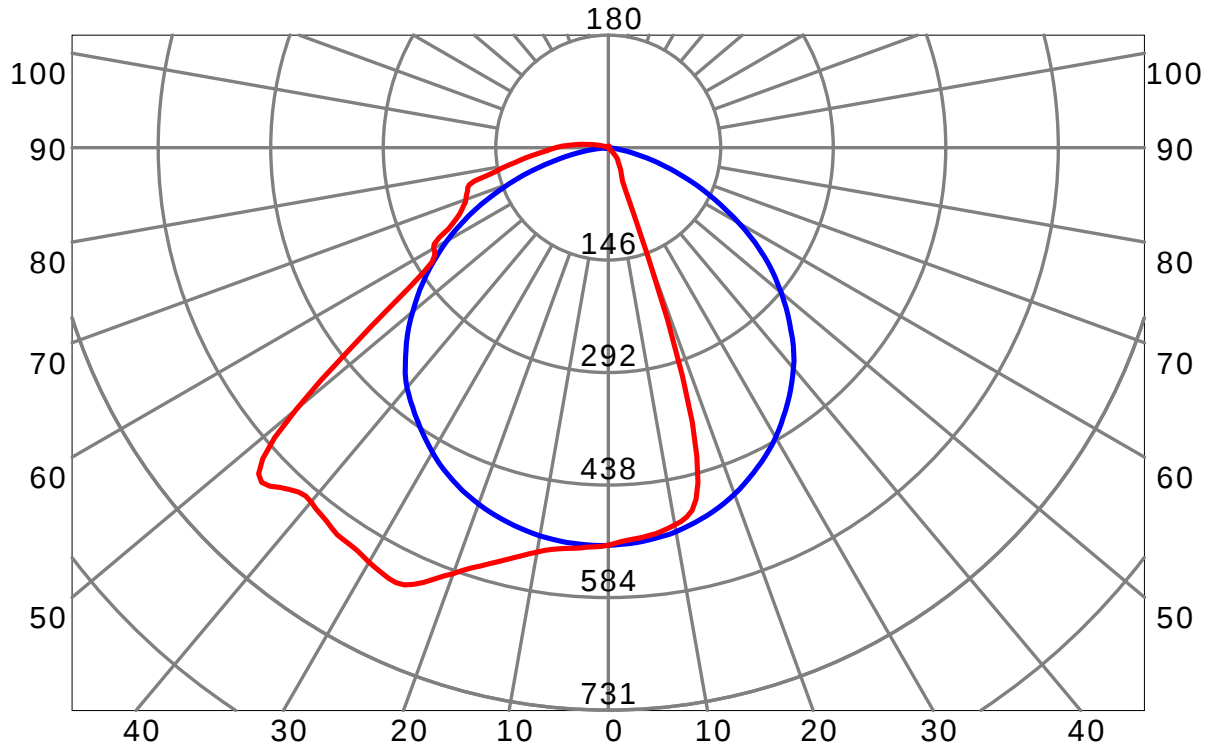
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

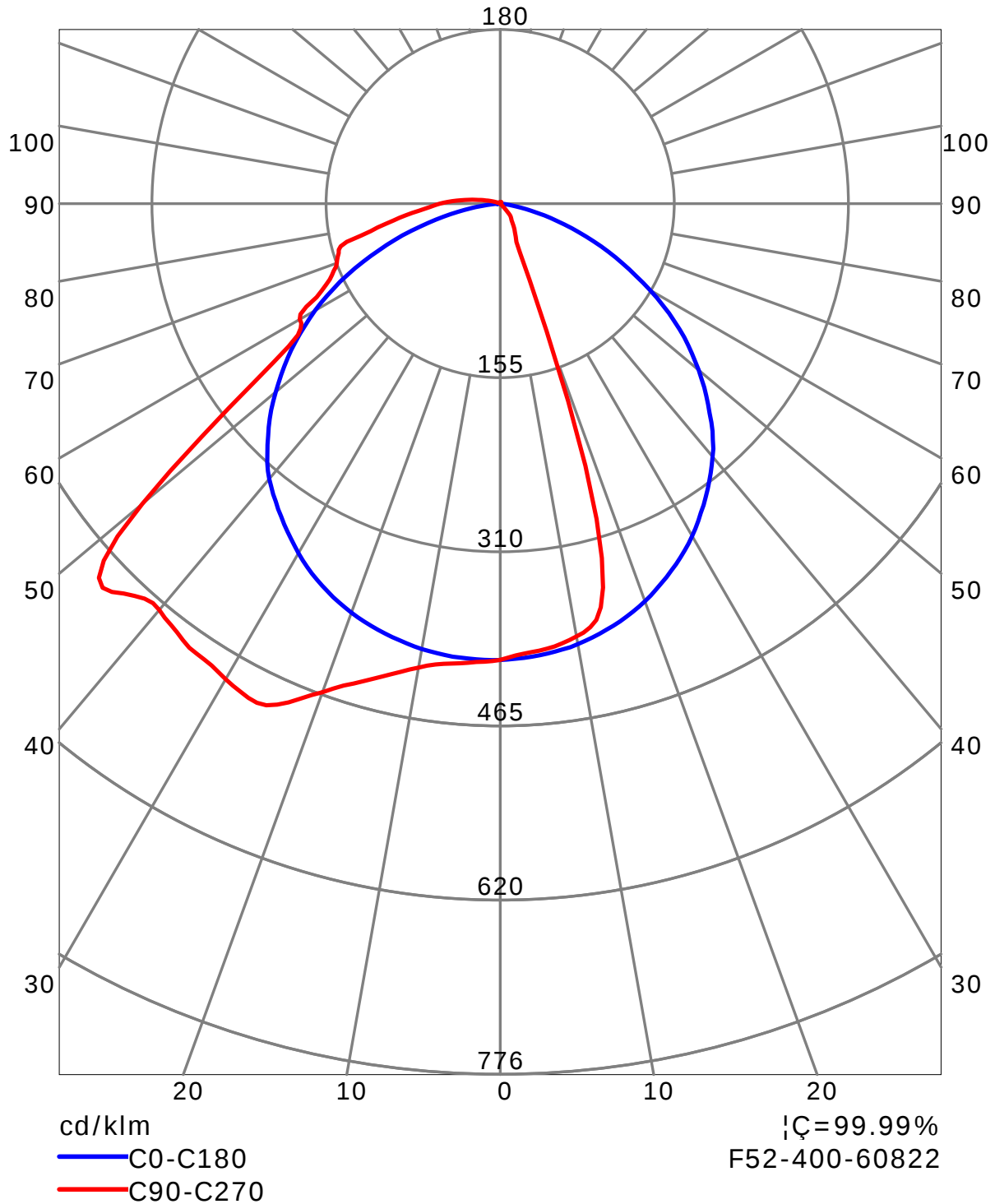
Luminous Intensity Distribution Curve



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:

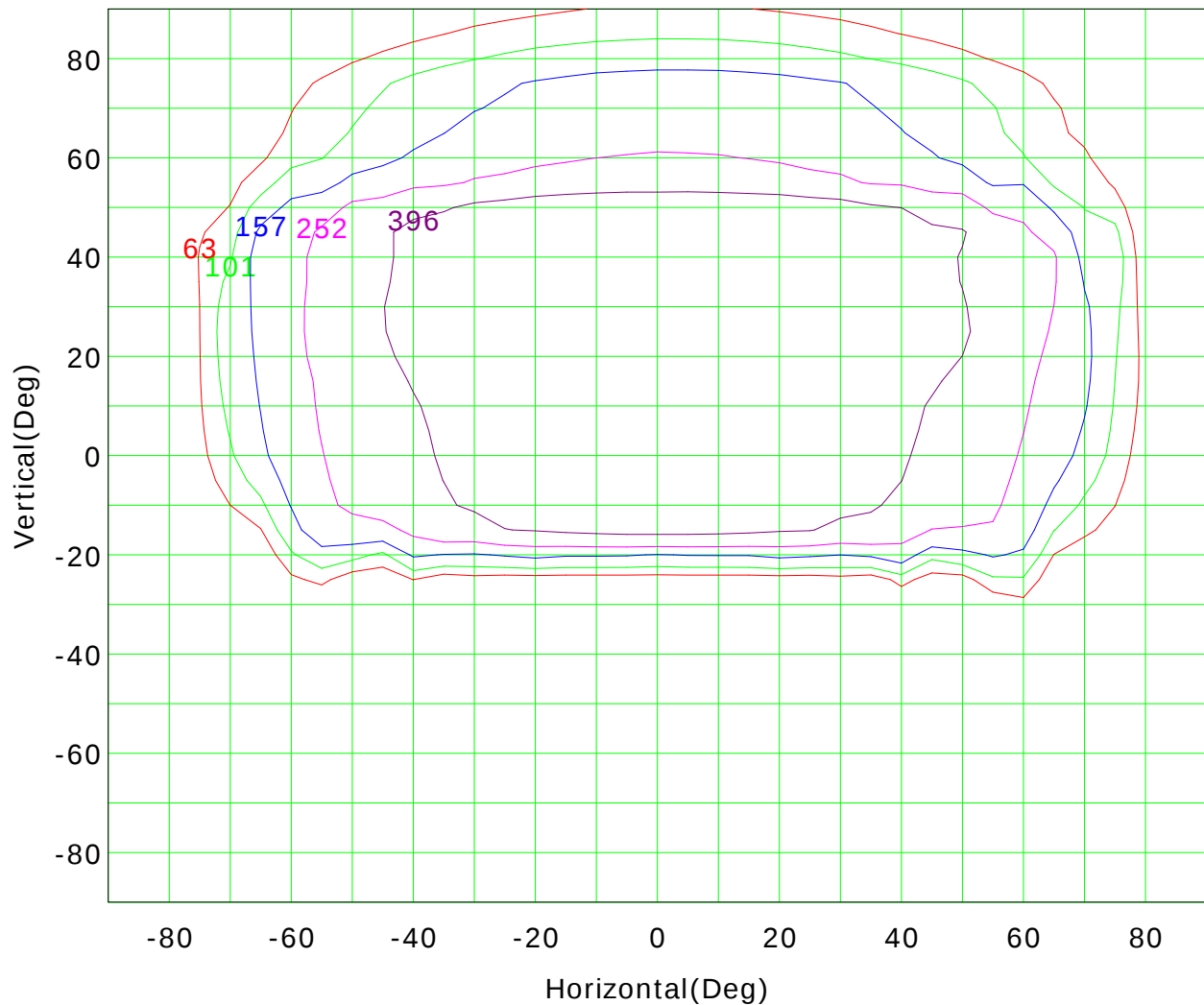
Luminous Intensity Distribution Curve(cd / klm)



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%): 629 cd

(10%):	63 cd	(16%):	101 cd
(25%):	157 cd	(40%):	252 cd
(63%):	396 cd	(100%):	629 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

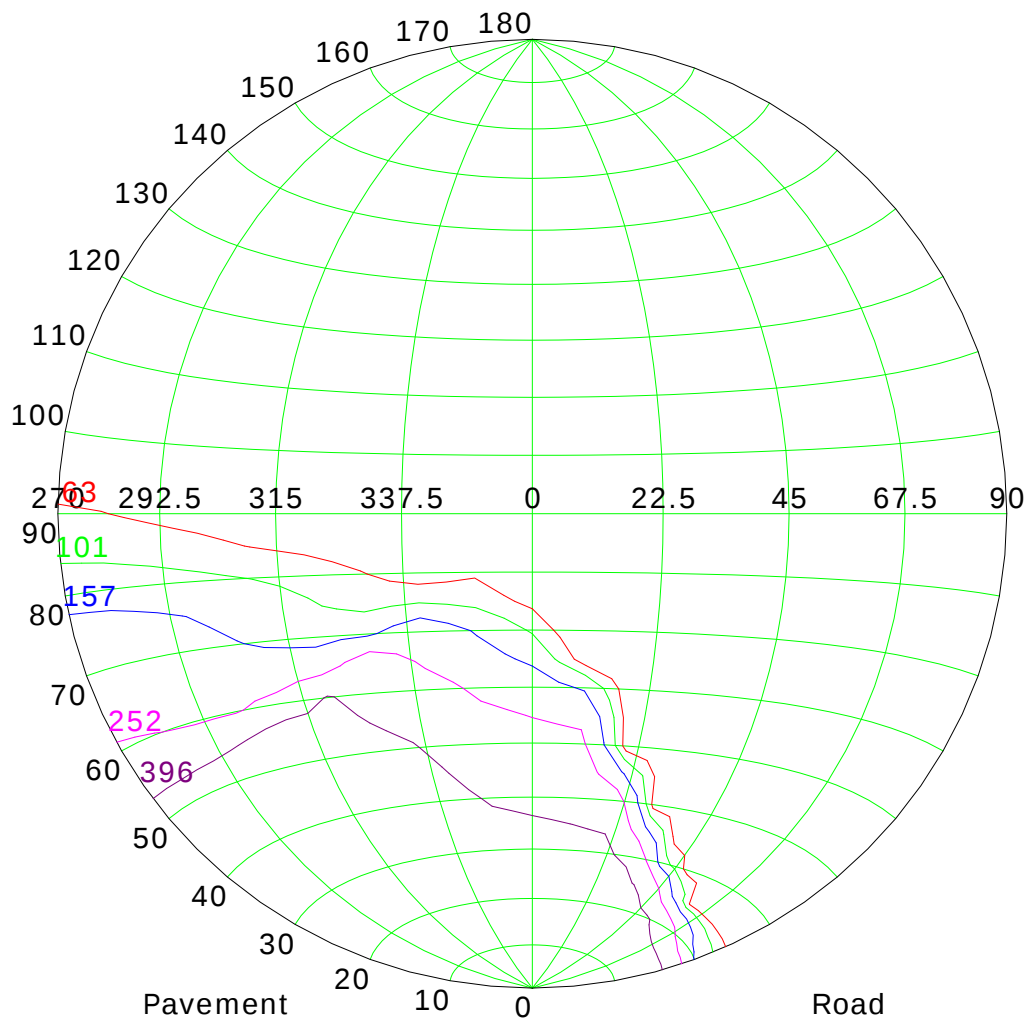
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 629 cd

(10%):	63 cd	(16%):	101 cd
(25%):	157 cd	(40%):	252 cd
(63%):	396 cd	(100%):	629 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

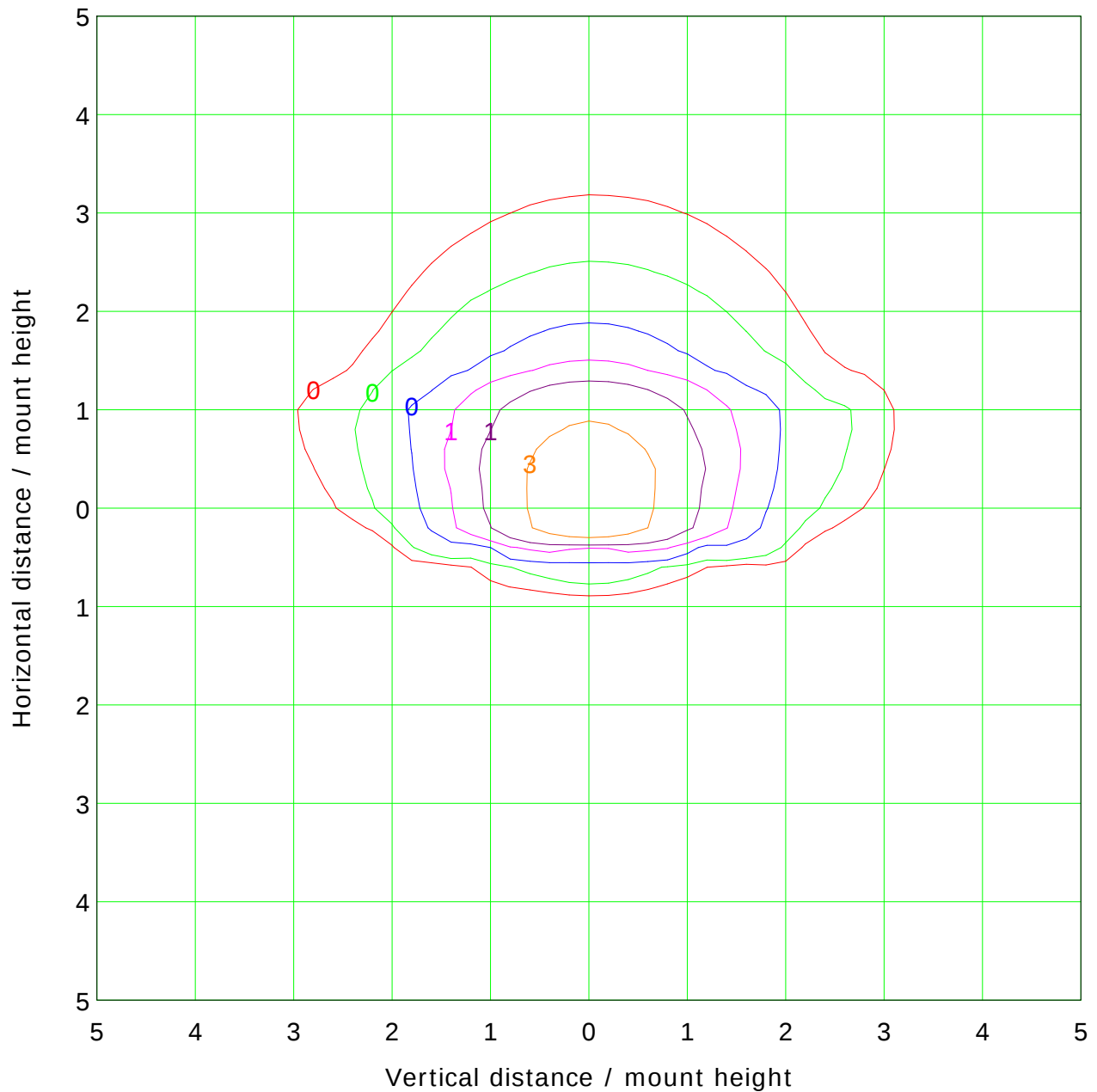
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 5.2 lx

(1%): 0.1 lx	(2%): 0.1 lx
(5%): 0.3 lx	(10%): 0.5 lx
(20%): 1.0 lx	(50%): 2.6 lx
(100%): 5.2 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

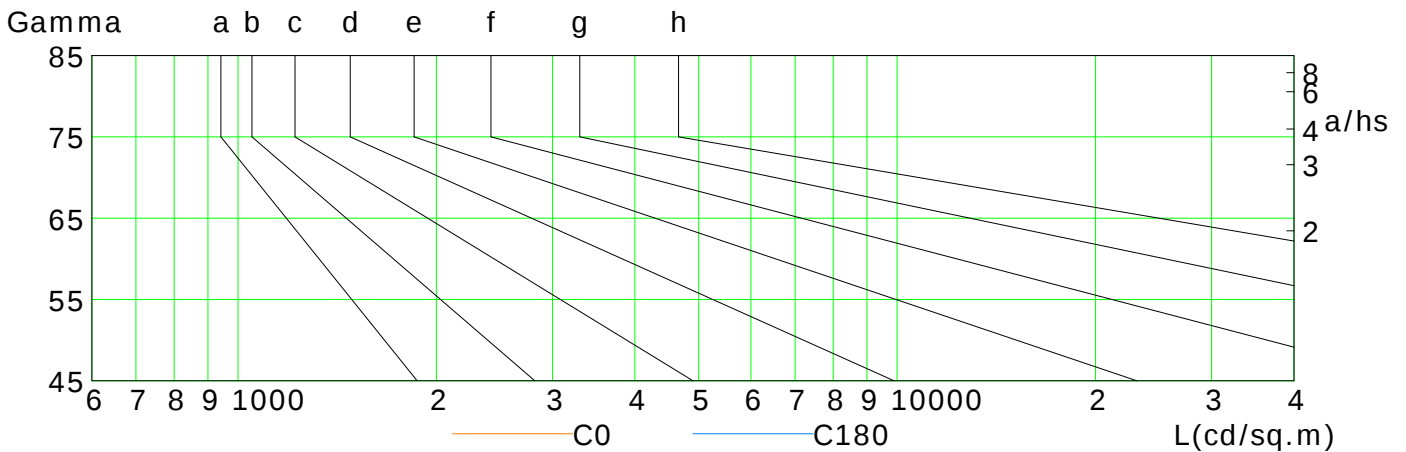
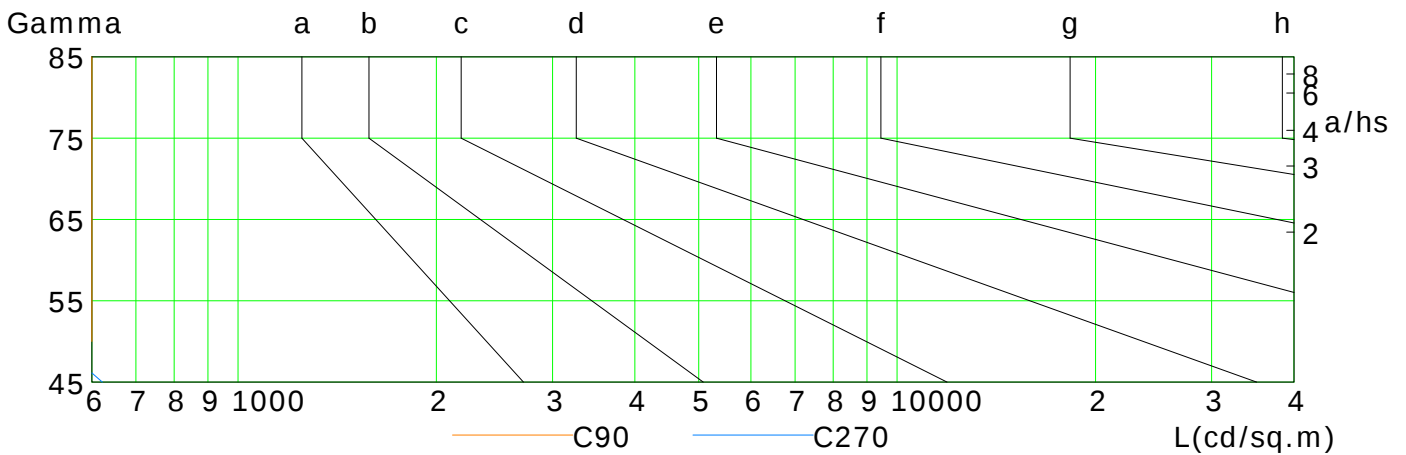
Humidity:

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	336	294	248	196	144	95	52	18	3
C90	2	0	0	0	0	0	0	0	0
C180	372	332	289	242	191	137	85	41	10
C270	622	530	314	262	218	197	187	132	93

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

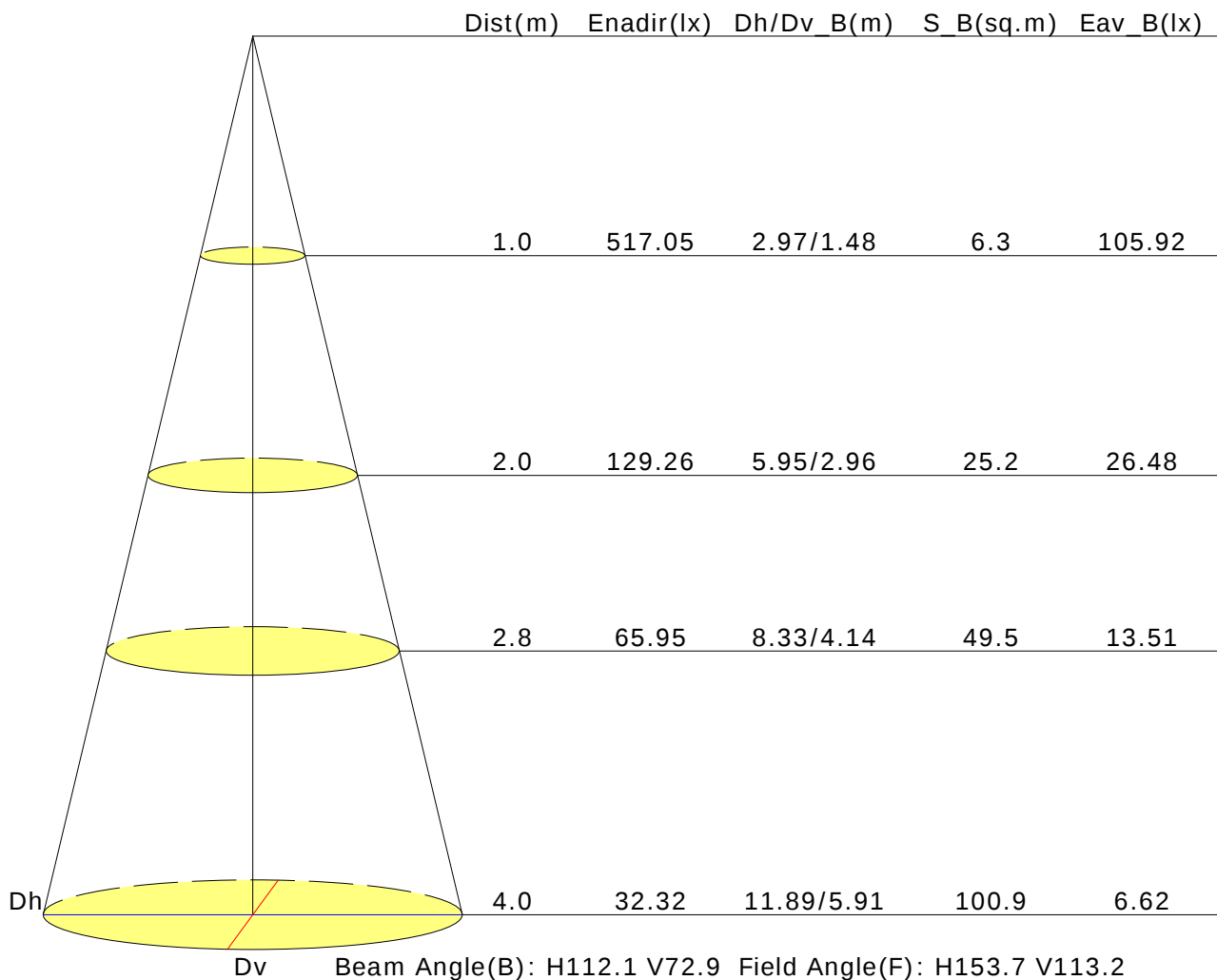
Test Device: GPM-2000

Distance: 7.970 m

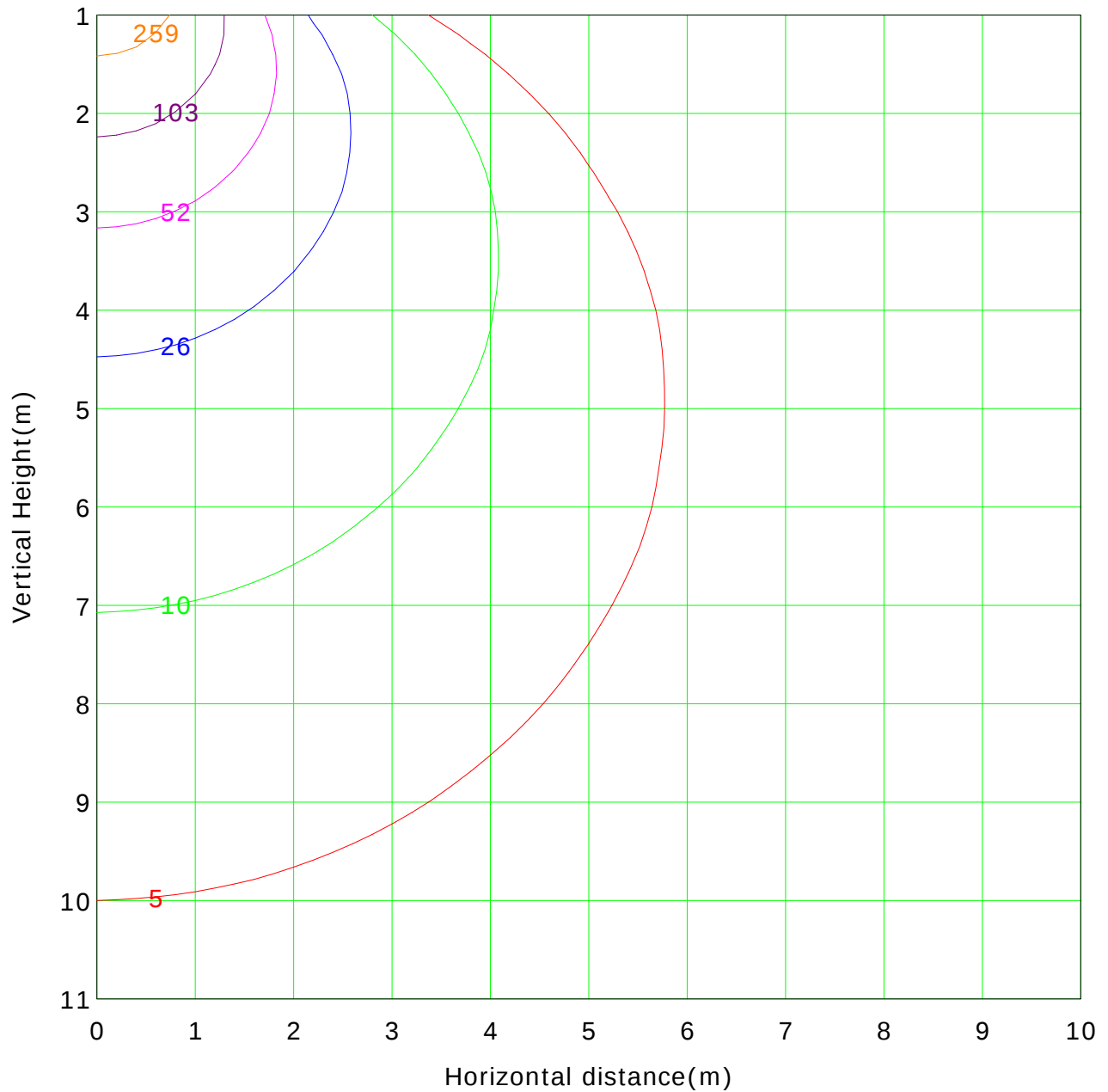
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 517.0 lx

— (1%): 5.2 lx	— (2%): 10.3 lx
— (5%): 25.9 lx	— (10%): 51.7 lx
— (20%): 103.4 lx	— (50%): 258.5 lx
— (100%): 517.0 lx	

Report No.:

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Luminaire Property

Luminaire Manufacturer: Lightng Line

Luminaire Description: LLP-DW10-05 + LLD-05-FM

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1005 lm

Voltage: 24.0 V

Current: 0.602 A

Power: 14.44 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 1004.5 lm

Downward Ratio: 96.53%

Total Rated Lamp Lumens: 1005.0 lm

Efficiency: 99.95%

Upward Ratio: 3.42%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.0, 140.8, 145.2, 144.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.5, 95.0, 99.2, 99.6

Luminaire Efficacy Rating (LER): 69.61

Central Intensity: 334.07 cd

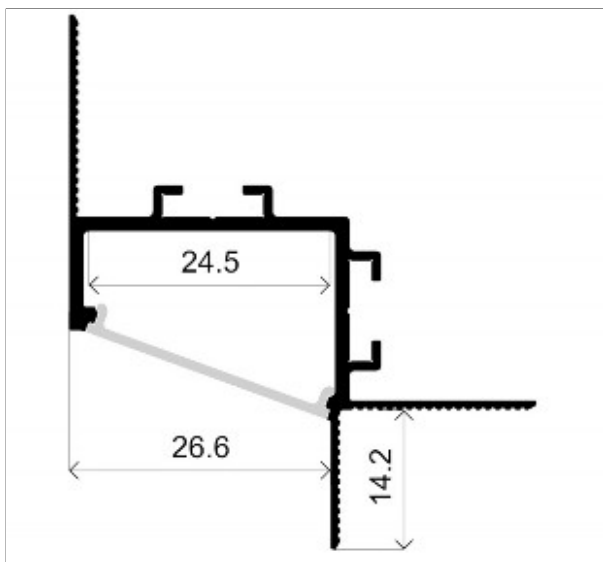
Max. Intensity: 410.18 cd

Pos of Max. Intensity: H90 V30

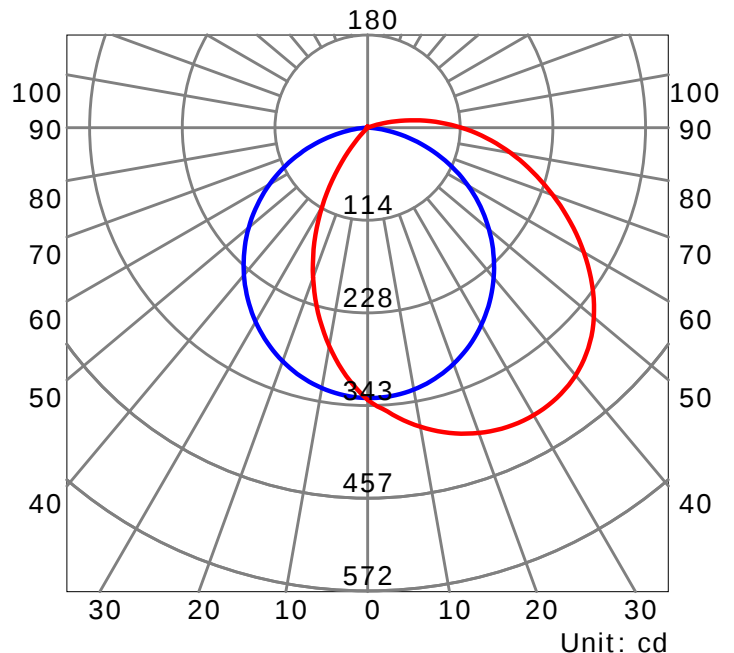
S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.16

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

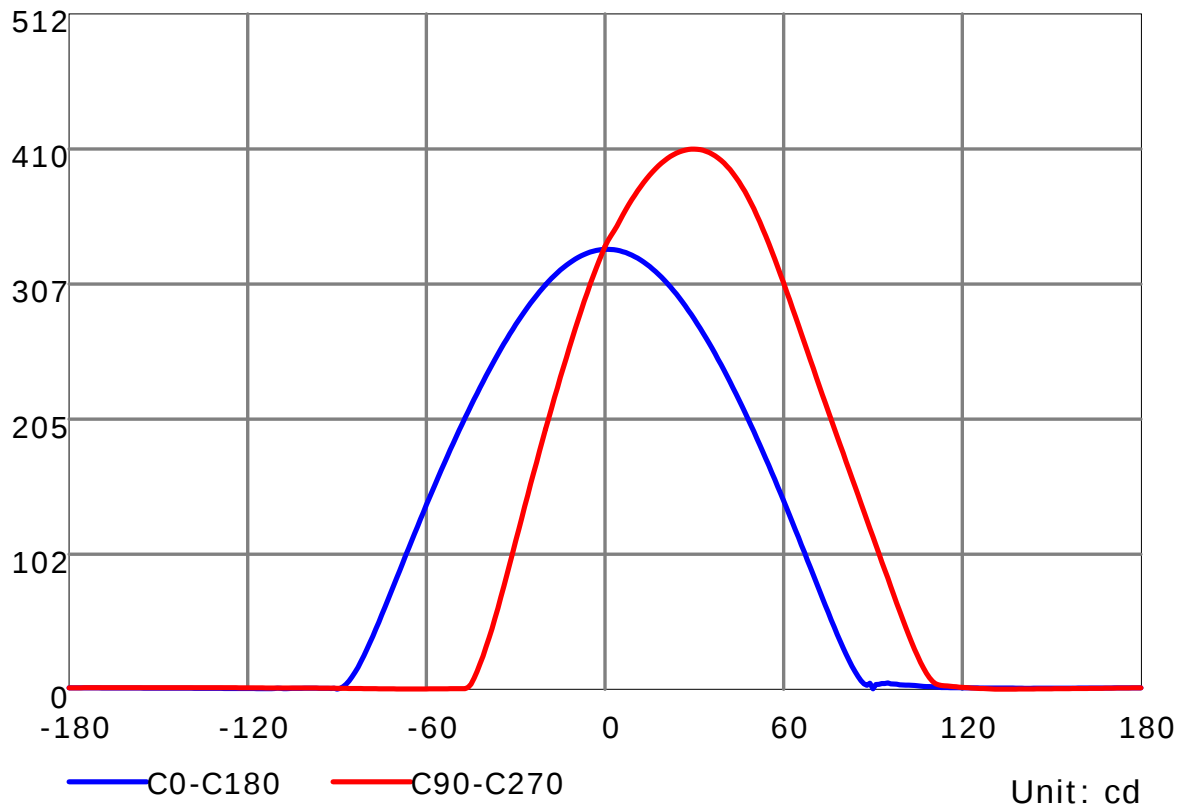
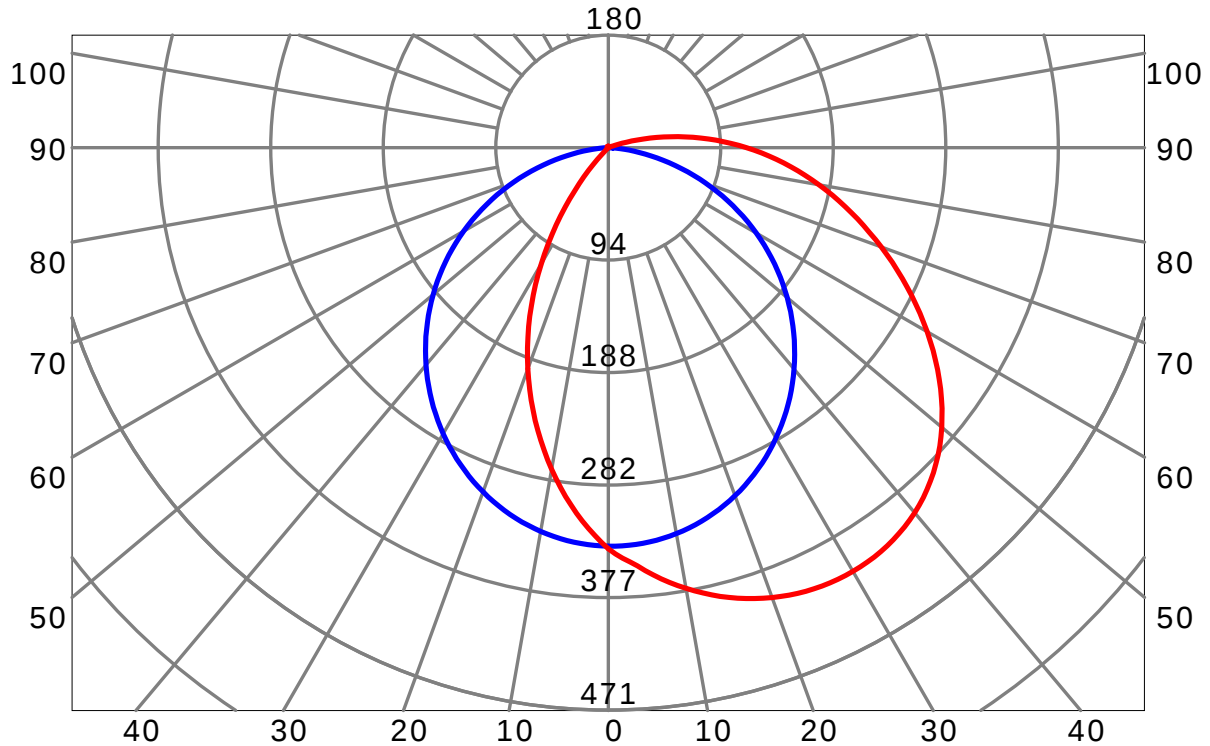
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

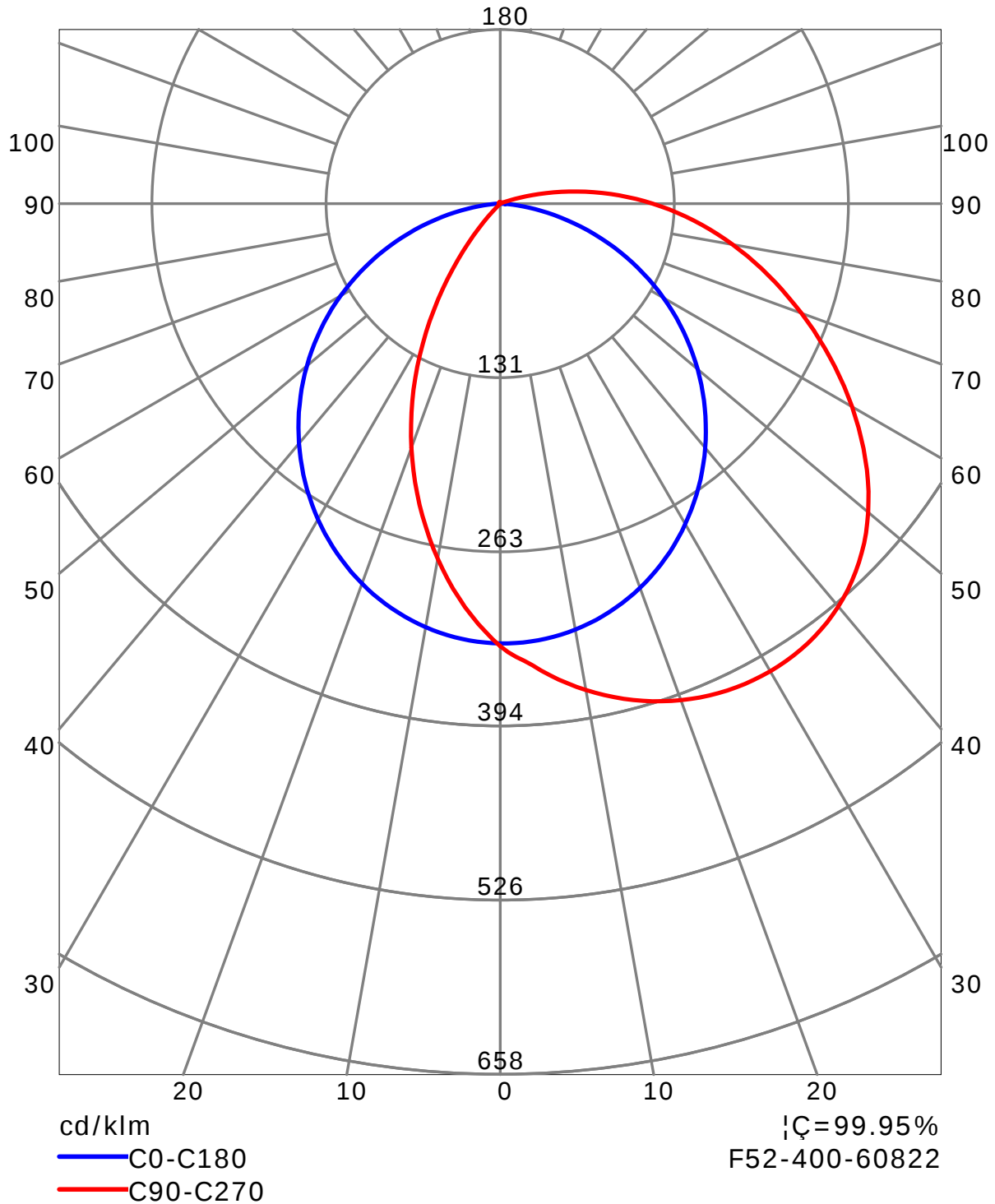
Luminous Intensity Distribution Curve



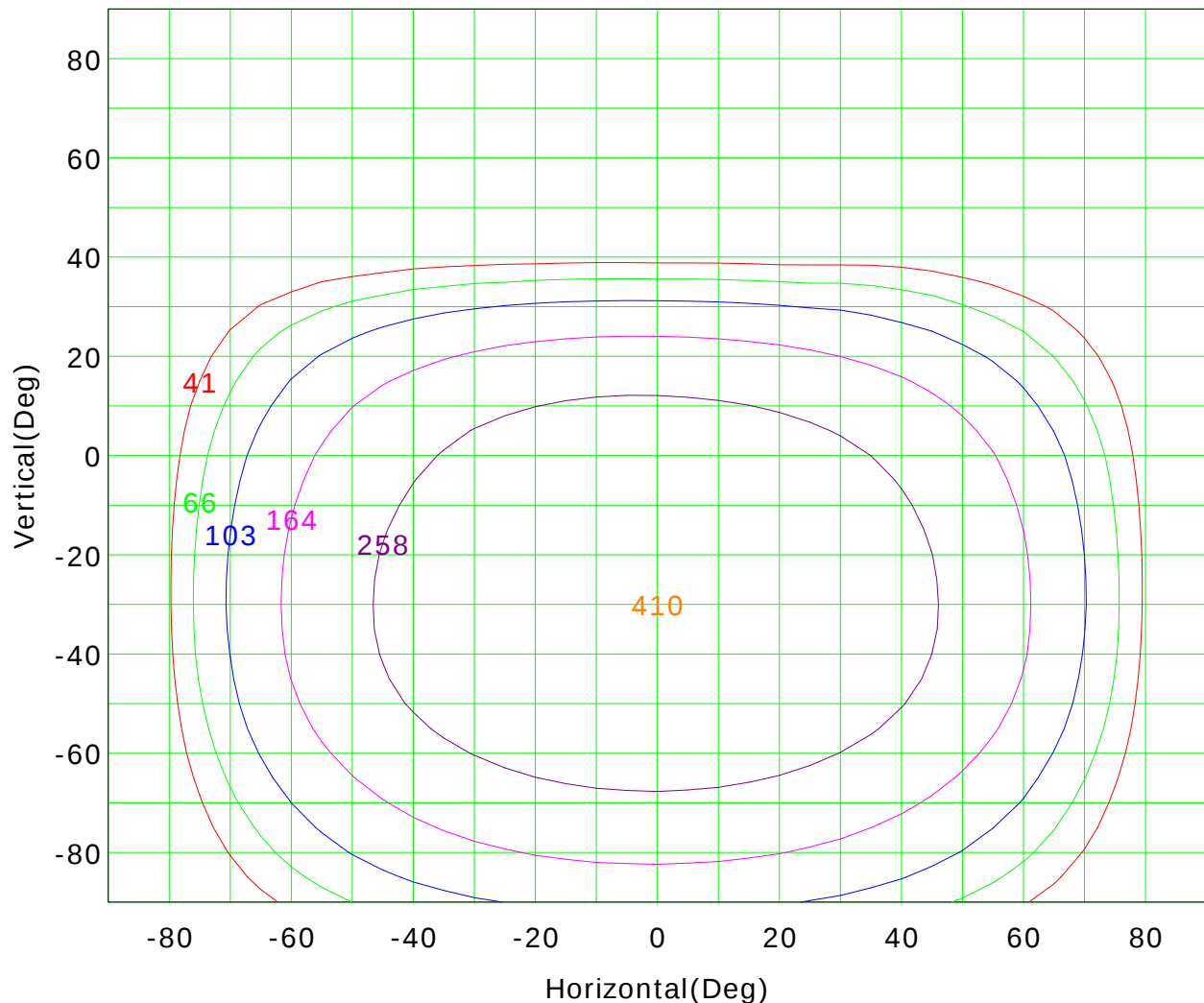
C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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%): 410 cd

(10%):	41 cd	(16%):	66 cd
(25%):	103 cd	(40%):	164 cd
(63%):	258 cd	(100%):	410 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

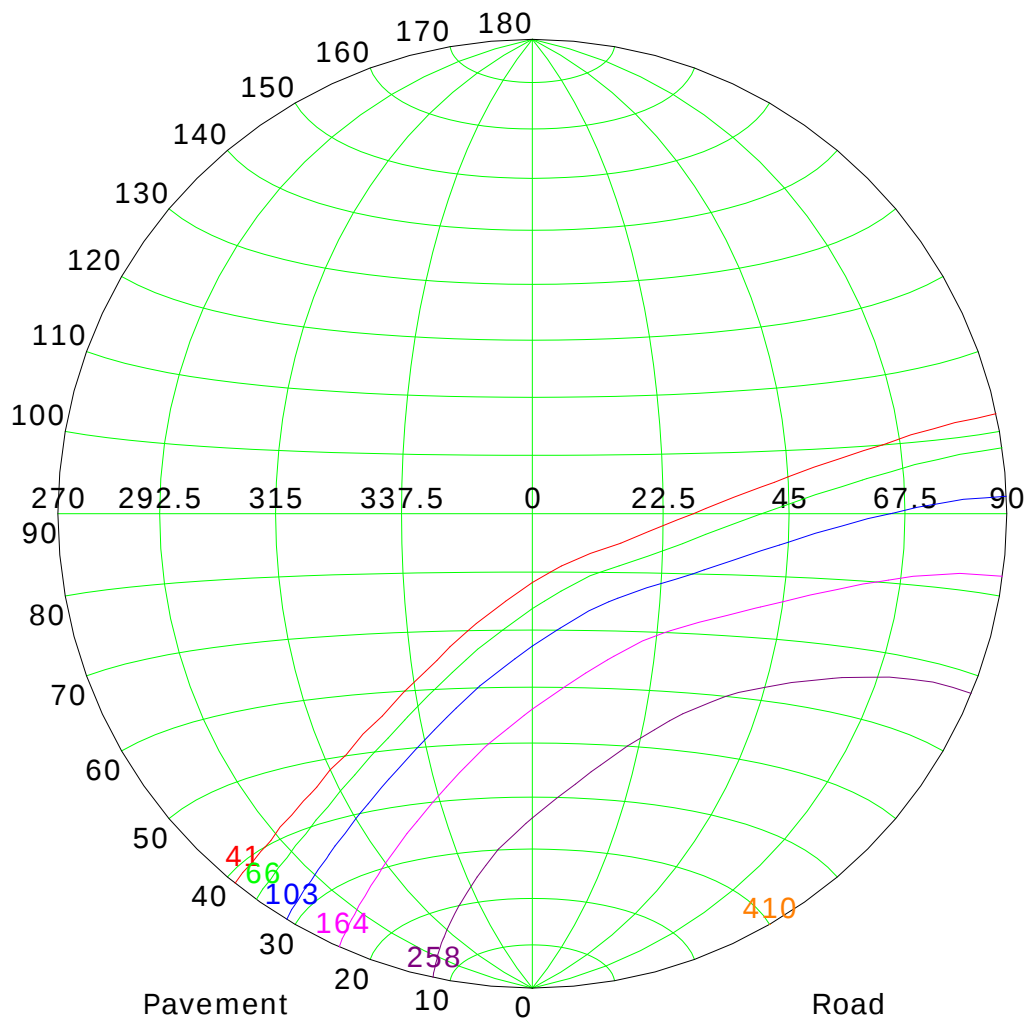
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 410 cd

(10%):	41 cd	(16%):	66 cd
(25%):	103 cd	(40%):	164 cd
(63%):	258 cd	(100%):	410 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

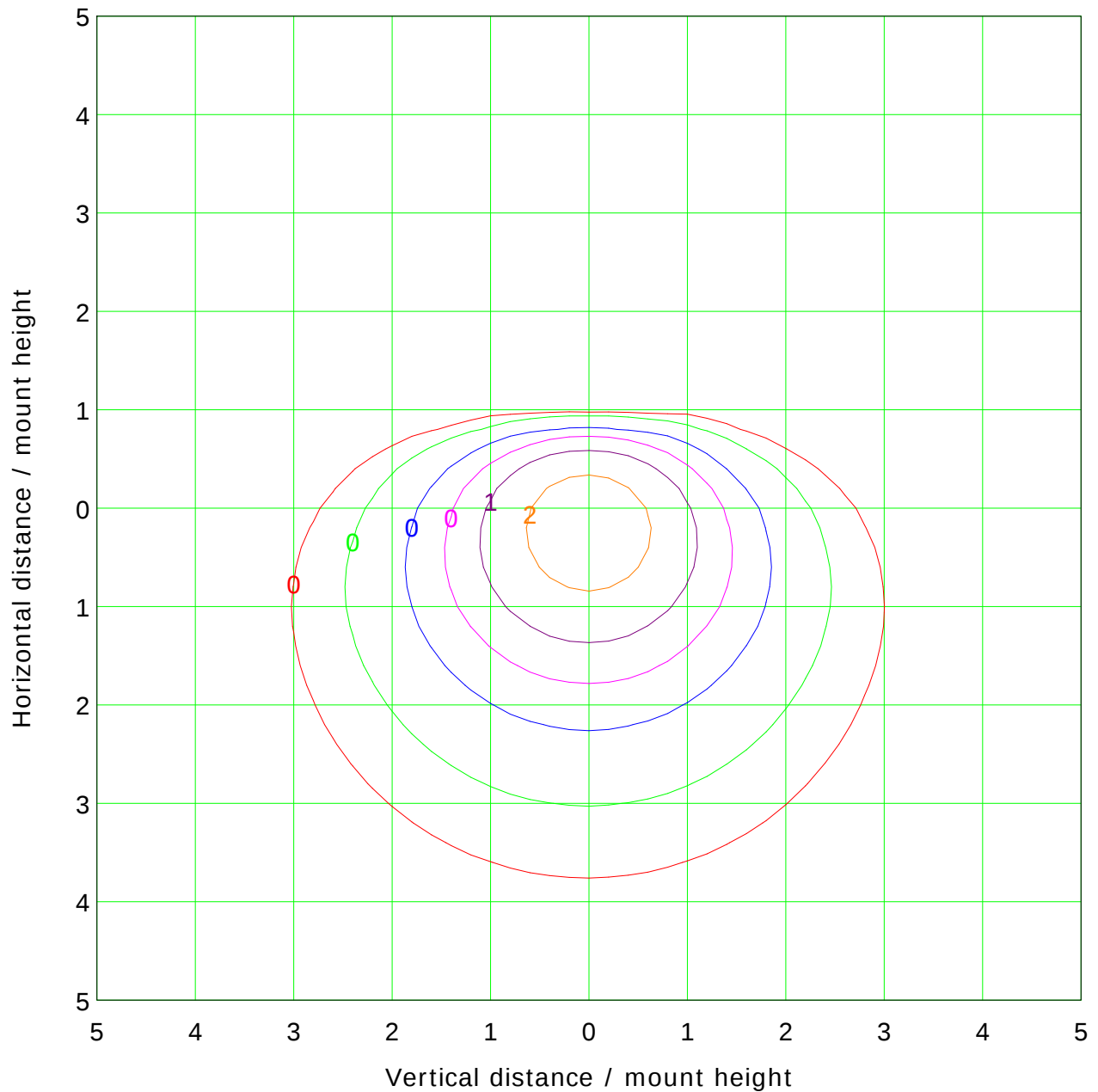
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 3.6 lx	
— (1%):	0.0 lx	— (2%):	0.1 lx
— (5%):	0.2 lx	— (10%):	0.4 lx
— (20%):	0.7 lx	— (50%):	1.8 lx
— (100%):	3.6 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

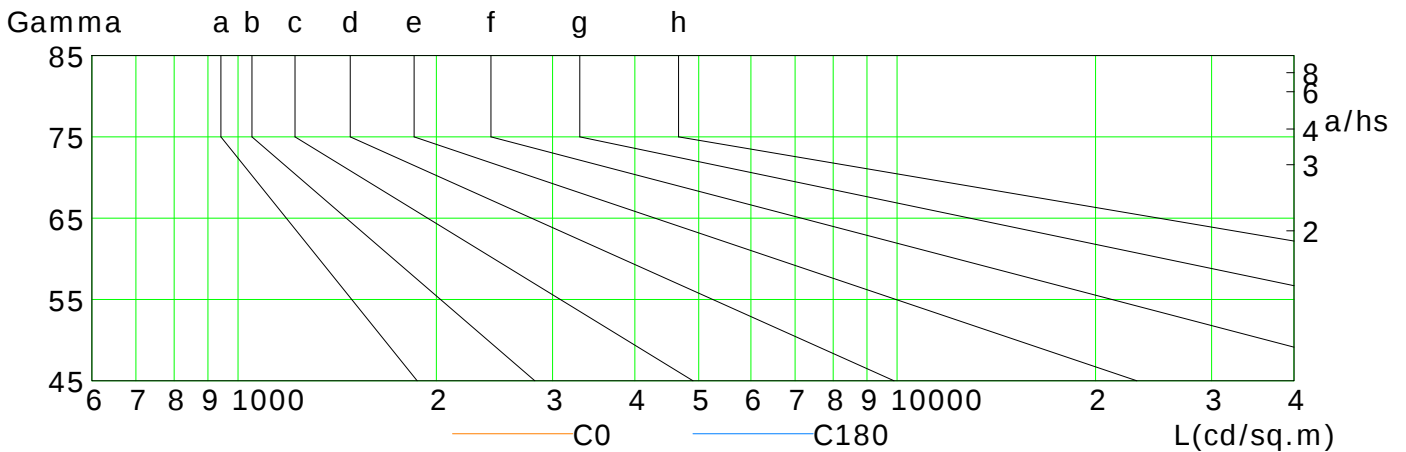
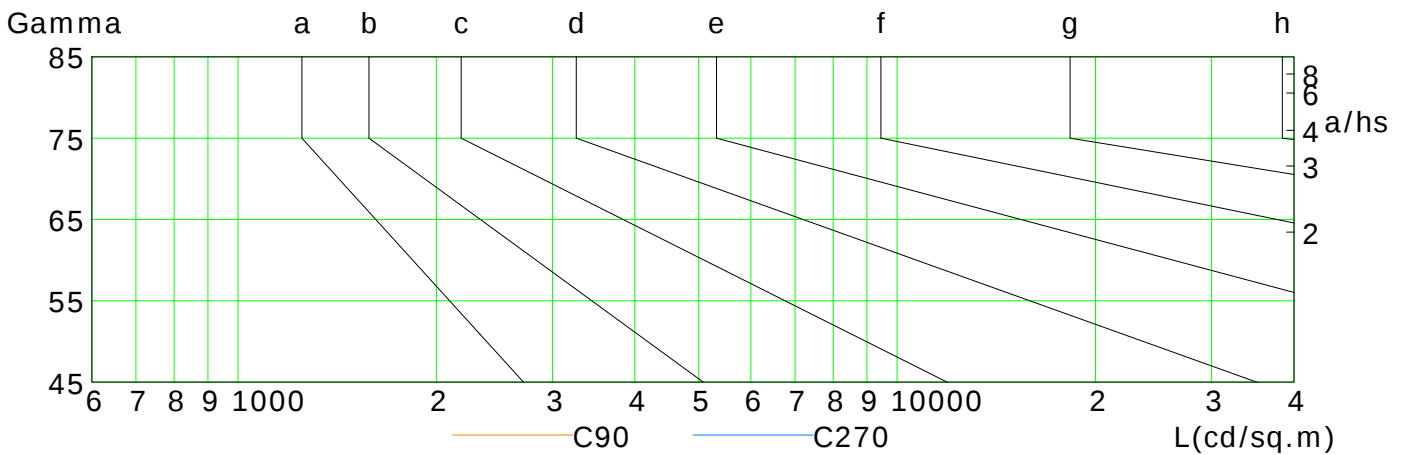
Humidity:

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	220	196	170	143	115	87	58	31	10
C90	385	365	339	309	276	244	211	179	148
C180	215	192	167	140	112	84	57	30	9
C270	4	1	0	0	0	0	0	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

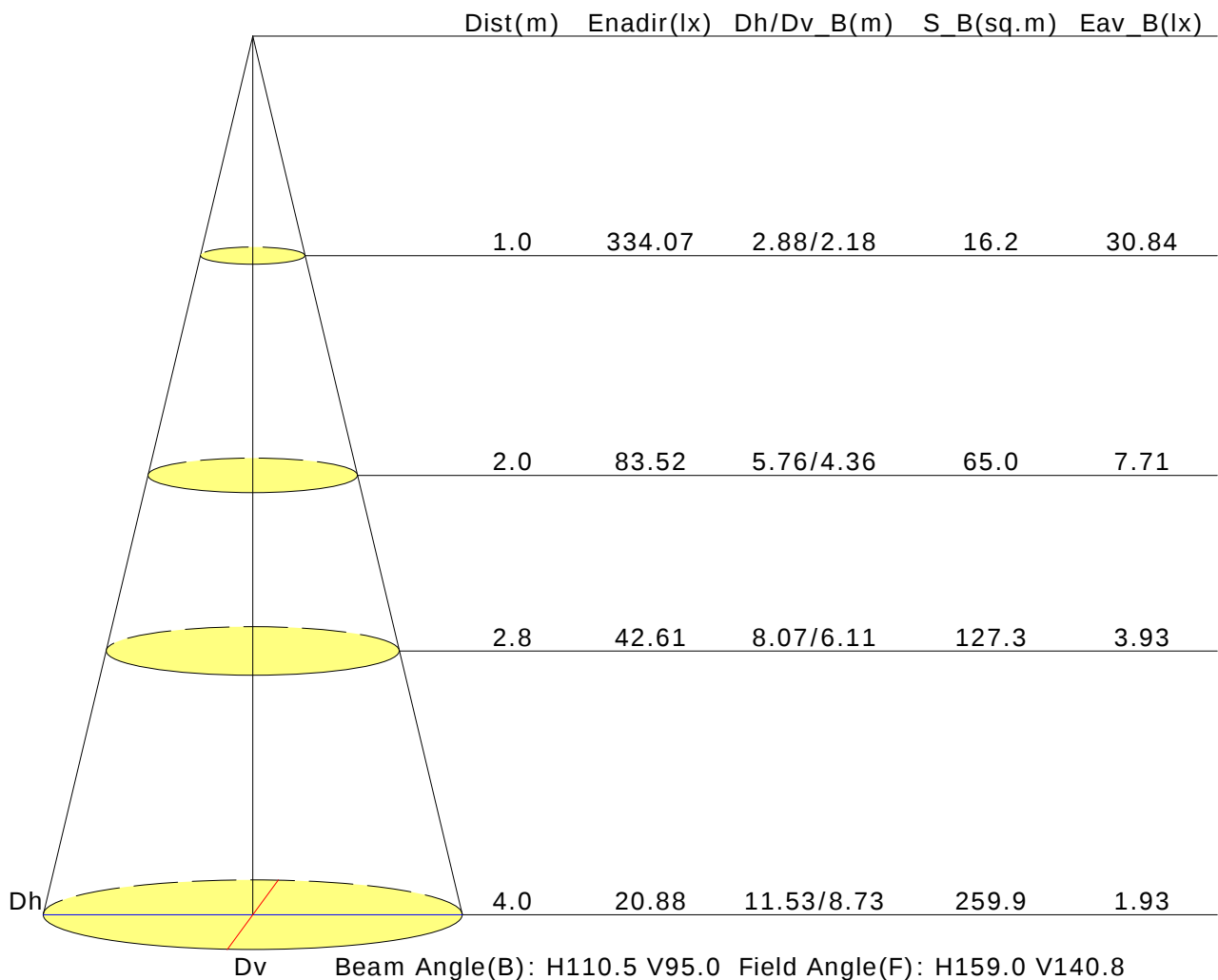
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

