

Report No.:

Test Time: 31/08/2018 16:02

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-RE02-03 + LLD-03-FK

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1579 lm

Voltage: 24.0 V

Current: 0.601 A

Power: 14.42 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 1045.6 lm

Downward Ratio: 65.99%

Total Rated Lamp Lumens: 1579.0 lm

Efficiency: 66.22%

Upward Ratio: 0.22%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.5, 136.5, 134.9, 134.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.7, 50.4, 66.2, 66.5

Luminaire Efficacy Rating (LER): 72.56

Central Intensity: 554.19 cd

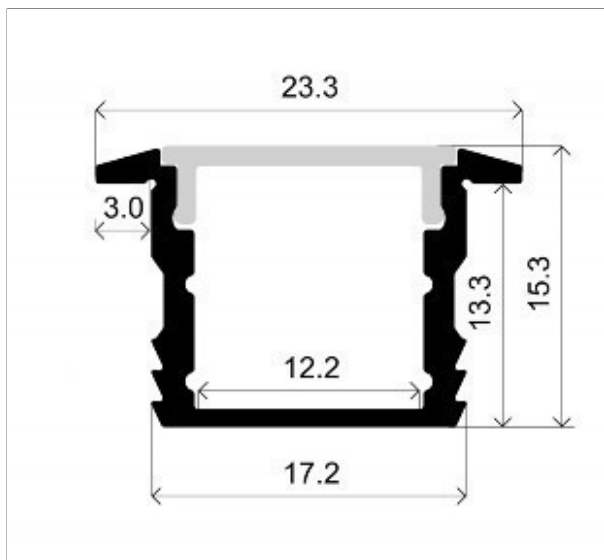
Max. Intensity: 585.65 cd

Pos of Max. Intensity: H90 V16

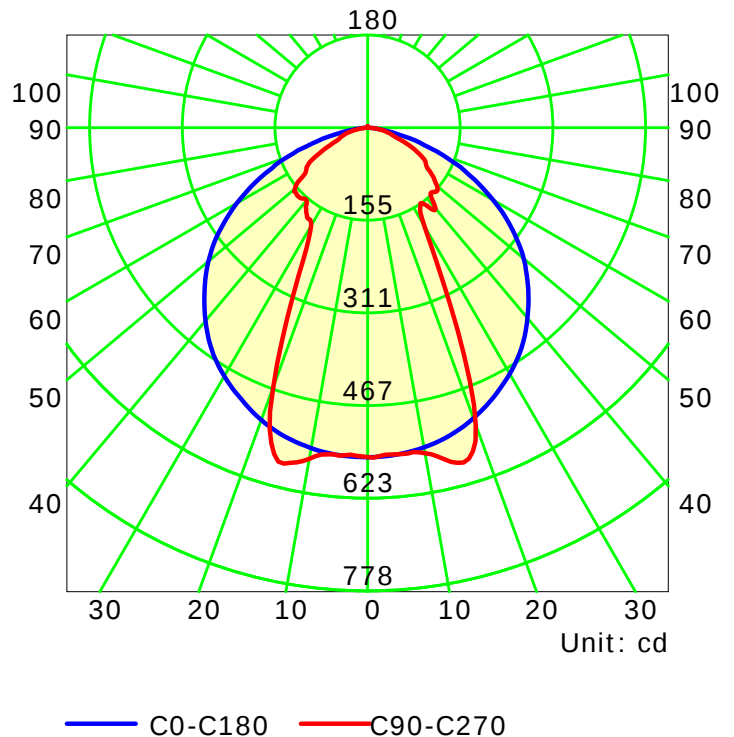
S/MH(C0/C180): 1.29

S/MH(C90/C270): 0.87

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

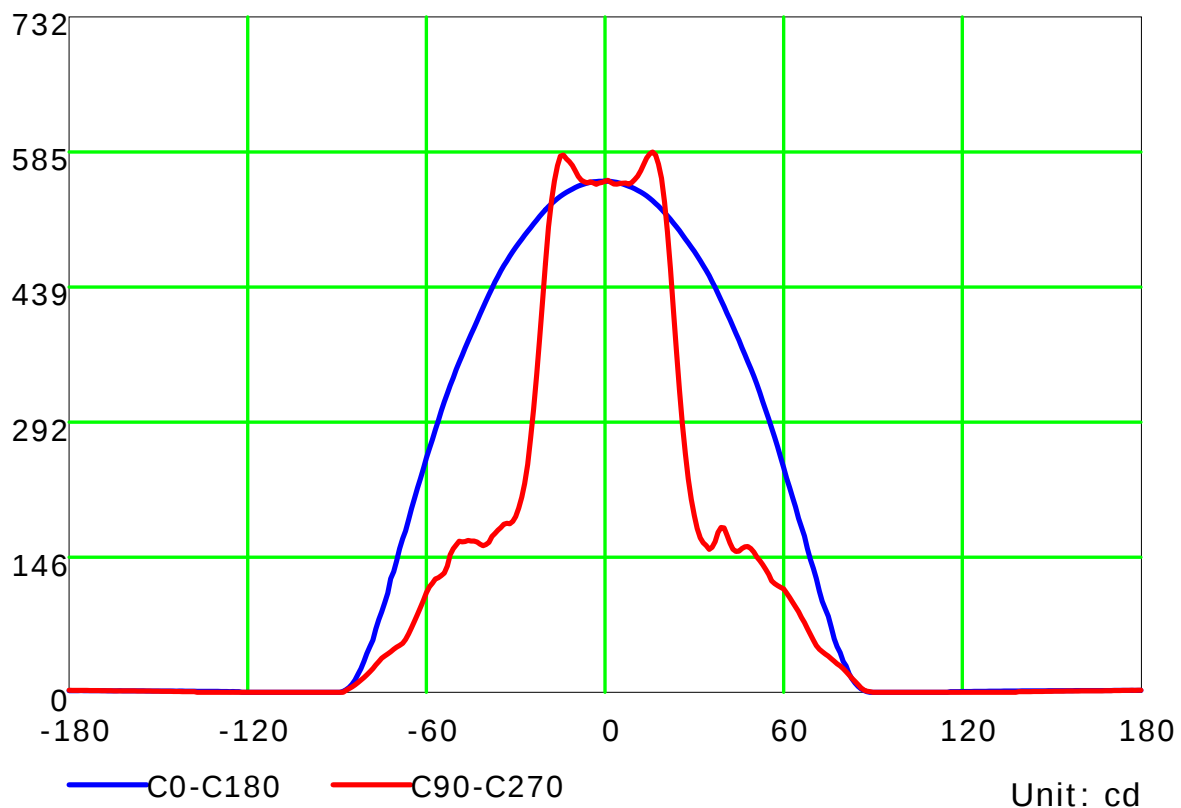
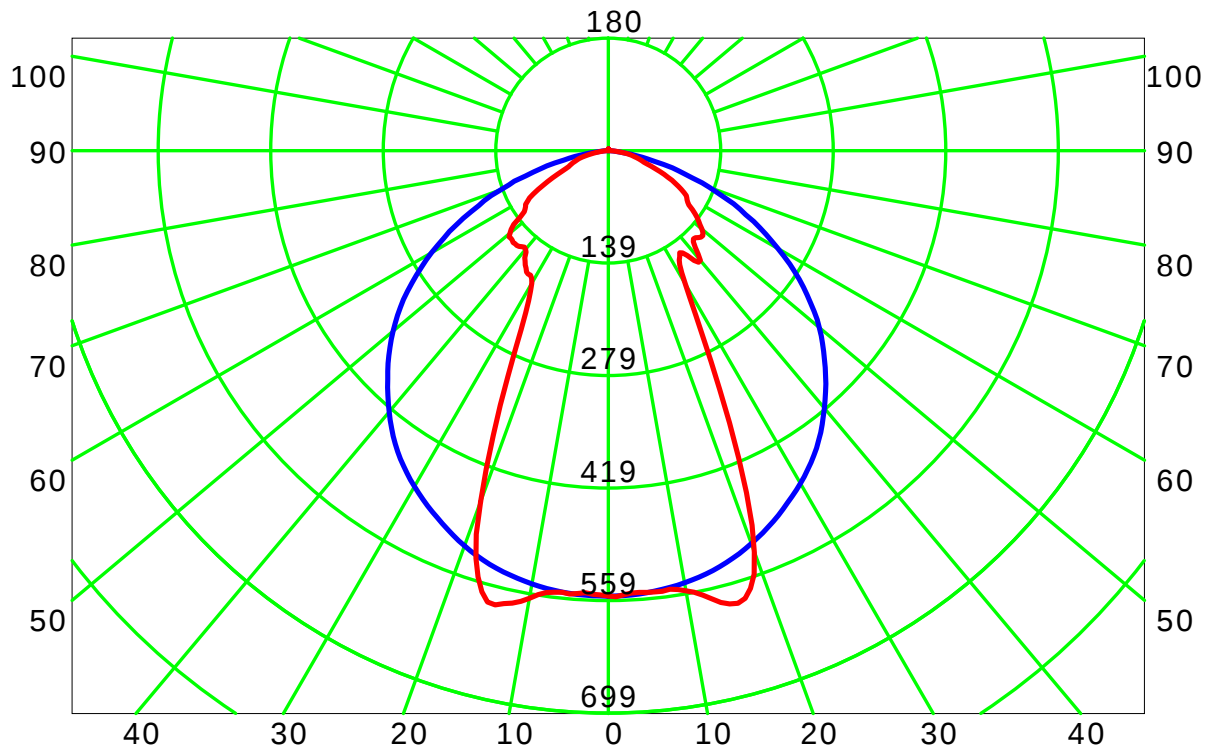
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

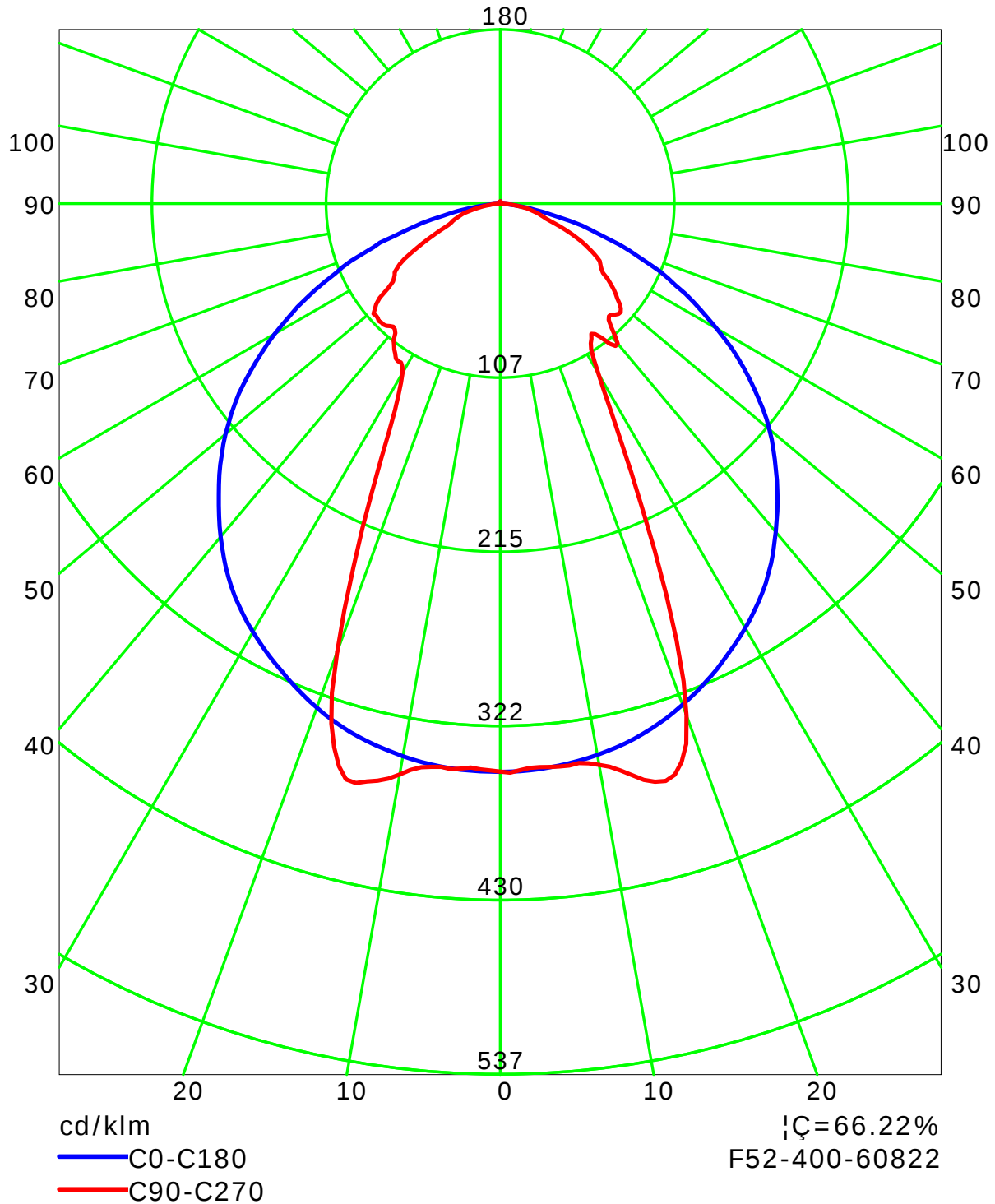
Luminous Intensity Distribution Curve



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:

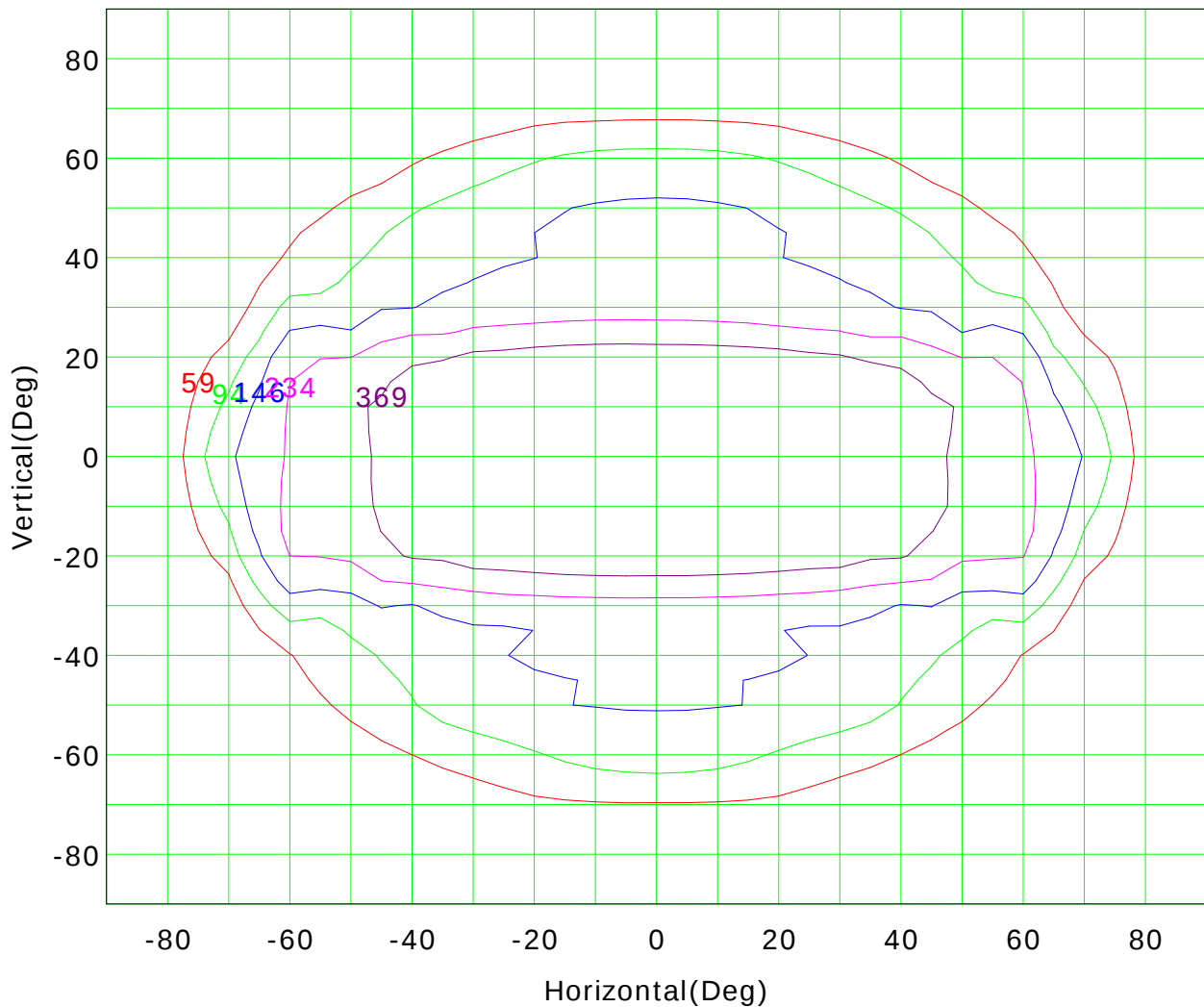
Luminous Intensity Distribution Curve(cd / klm)



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%): 586 cd

(10%):	59 cd	(16%):	94 cd
(25%):	146 cd	(40%):	234 cd
(63%):	369 cd	(100%):	586 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

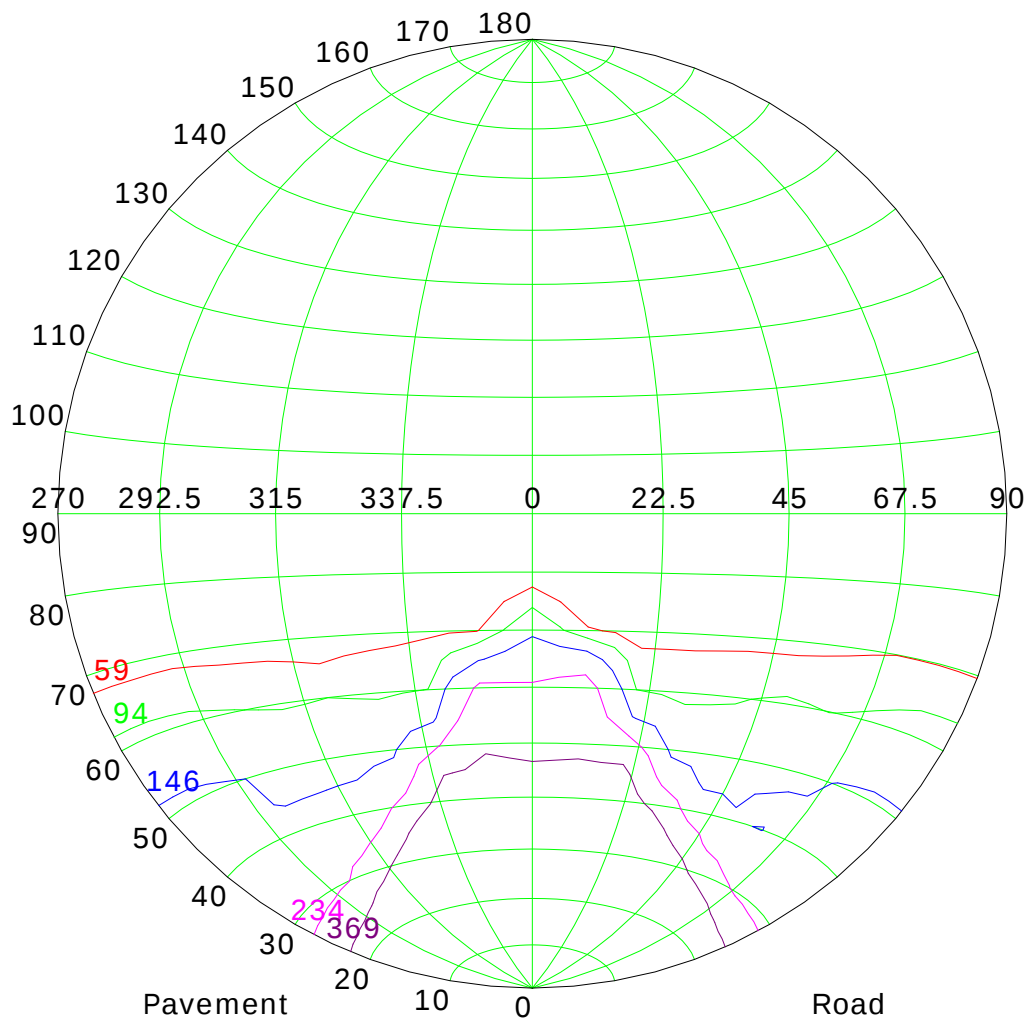
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 586 cd

(10%):	59 cd	(16%):	94 cd
(25%):	146 cd	(40%):	234 cd
(63%):	369 cd	(100%):	586 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

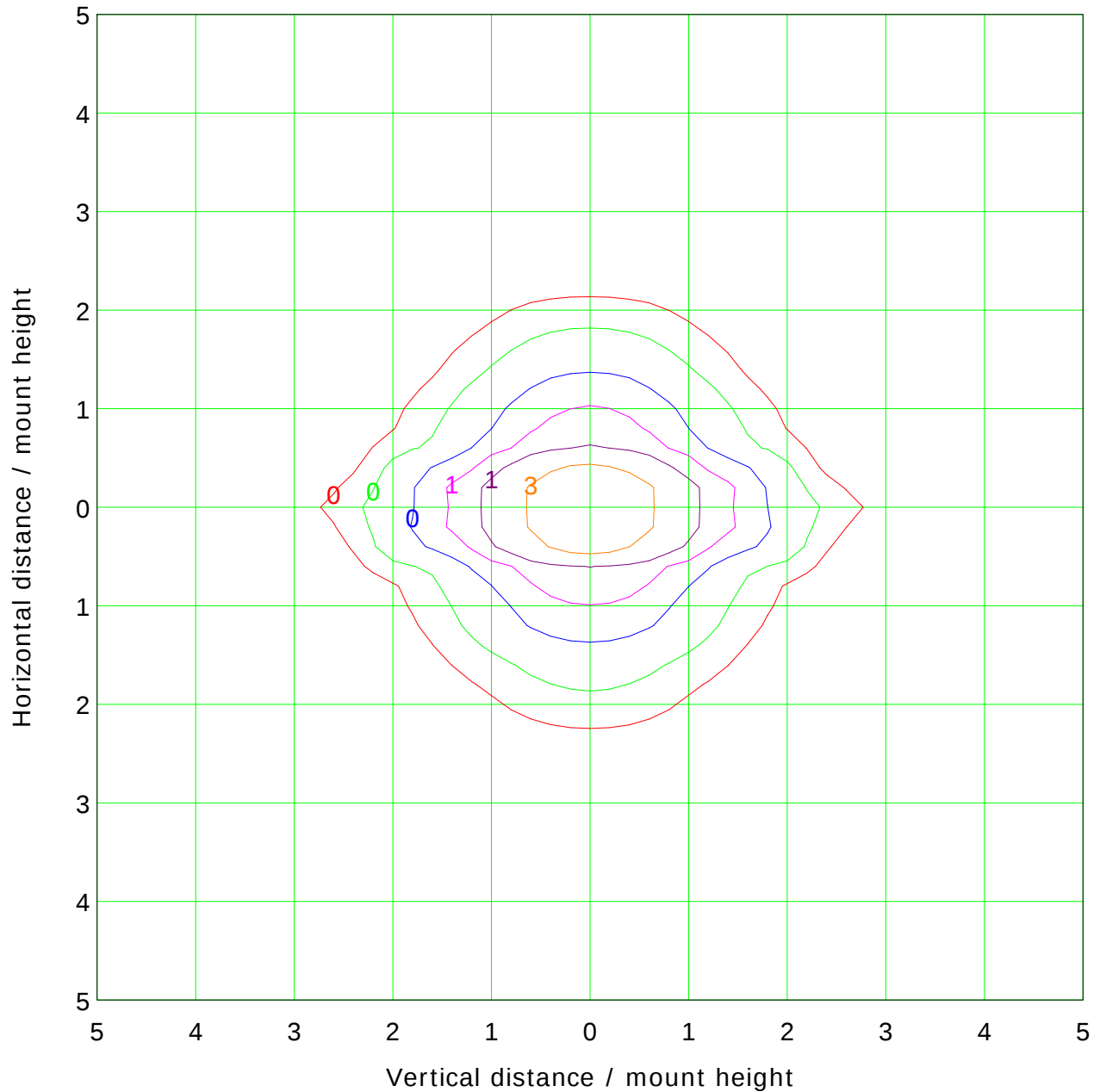
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 5.5 lx

(1%): 0.1 lx	(2%): 0.1 lx
(5%): 0.3 lx	(10%): 0.6 lx
(20%): 1.1 lx	(50%): 2.8 lx
(100%): 5.5 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

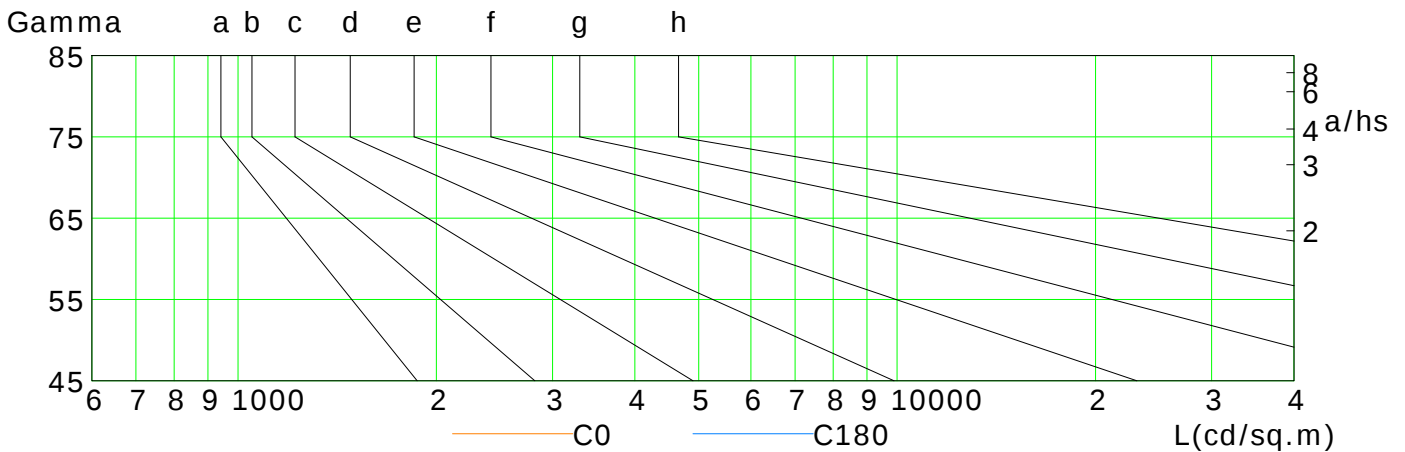
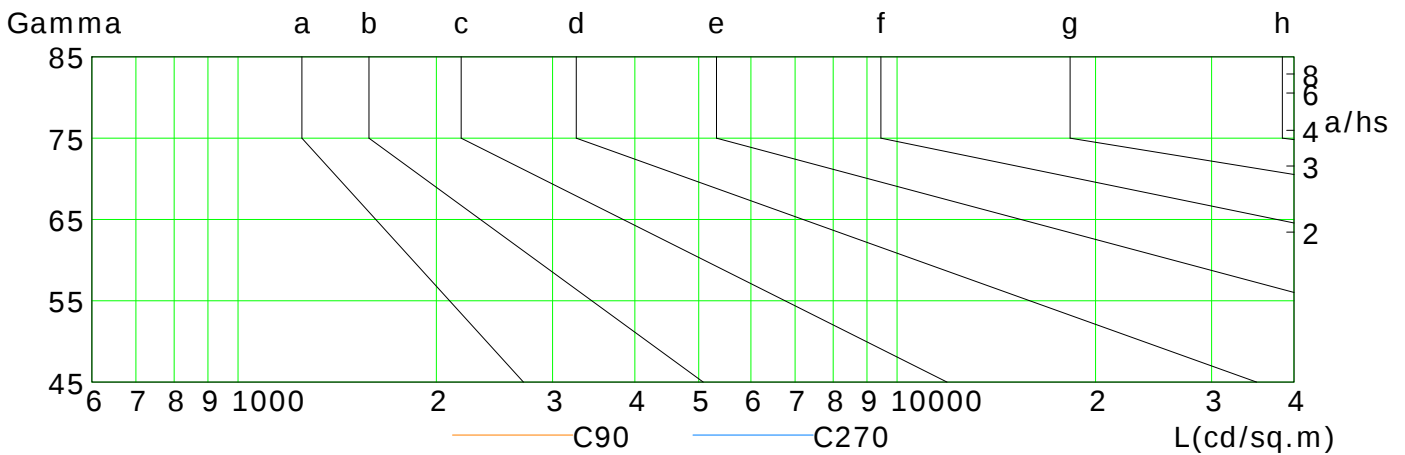
Humidity:

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	382	343	296	244	189	134	82	34	7
C90	153	152	128	112	88	56	39	26	8
C180	388	350	305	254	199	142	87	42	9
C270	164	160	126	108	70	49	37	19	6

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

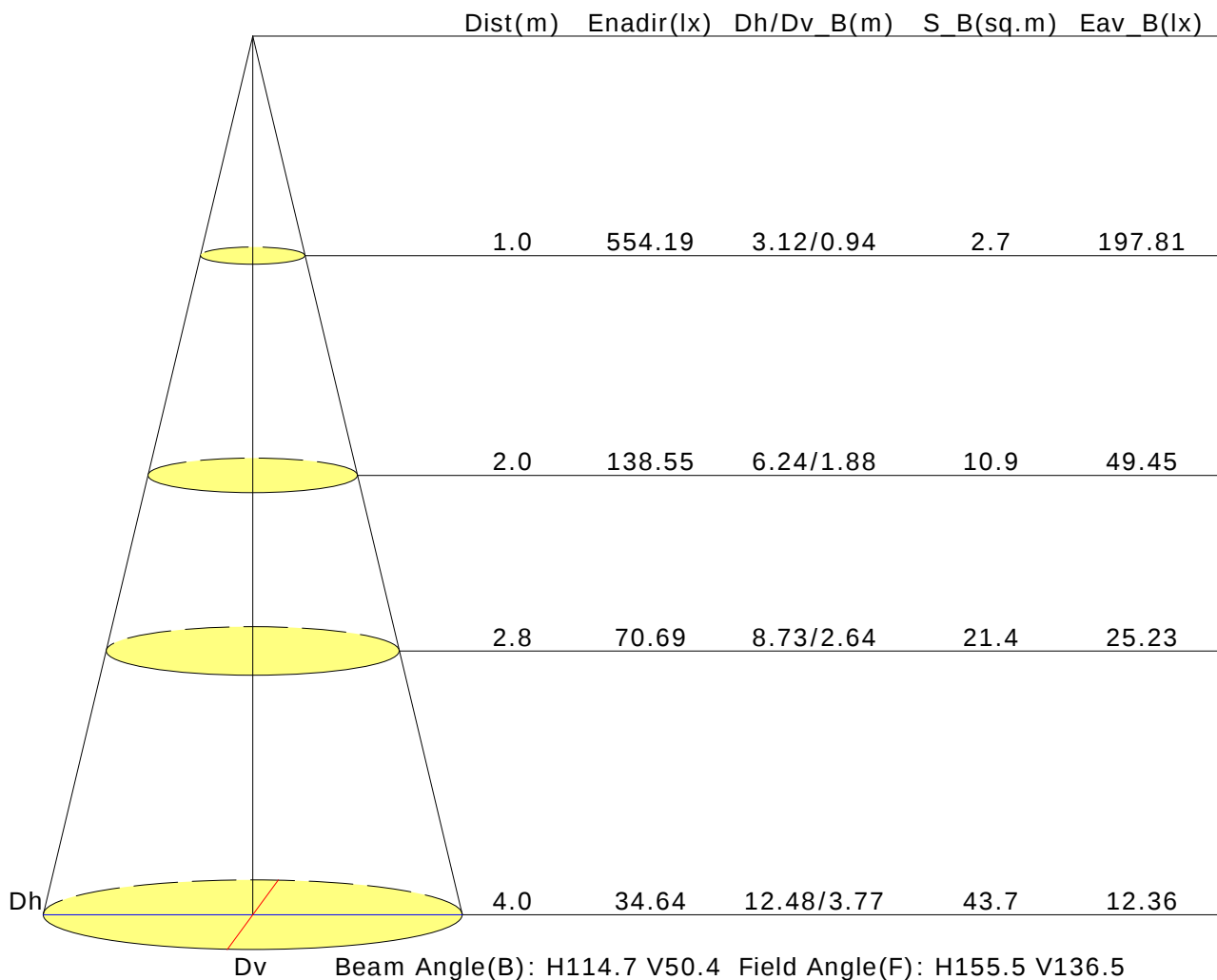
Test Device: GPM-2000

Distance: 7.970 m

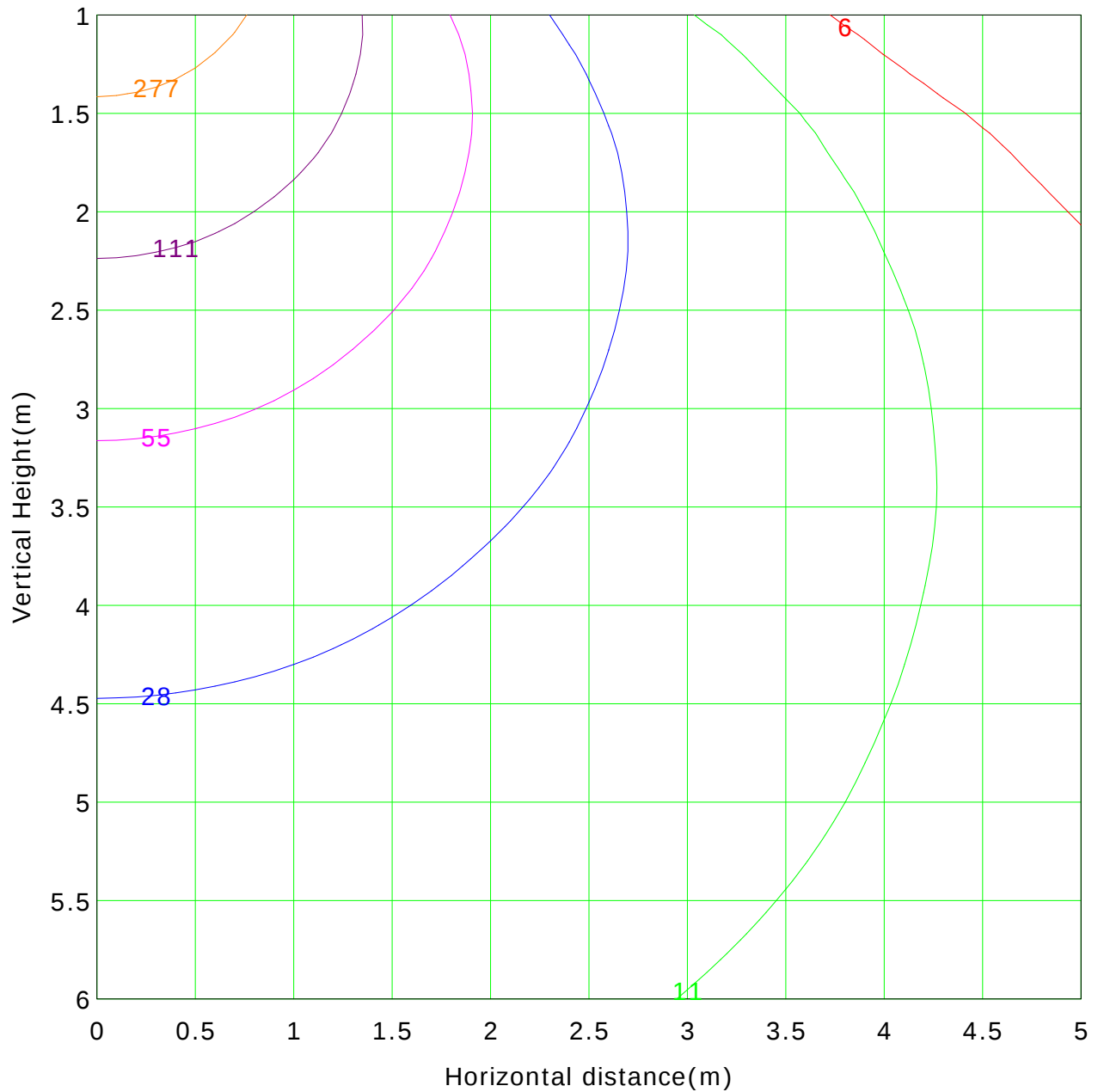
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 6.0m Max Lux: 554.2 lx

(1%): 5.5 lx	(2%): 11.1 lx
(5%): 27.7 lx	(10%): 55.4 lx
(20%): 110.8 lx	(50%): 277.1 lx
(100%): 554.2 lx	

Report No.:

Test Time: 03/09/2018 10:17

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-RE02-03 + LLD-03-FH

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1579 lm

Voltage: 24.0 V

Current: 0.601 A

Power: 14.41 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 985.1 lm

Downward Ratio: 62.18%

Total Rated Lamp Lumens: 1579.0 lm

Efficiency: 62.39%

Upward Ratio: 0.21%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 152.1, 143.5, 145.2, 145.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 98.7, 66.7, 76.5, 77.1

Luminaire Efficacy Rating (LER): 68.41

Central Intensity: 503.59 cd

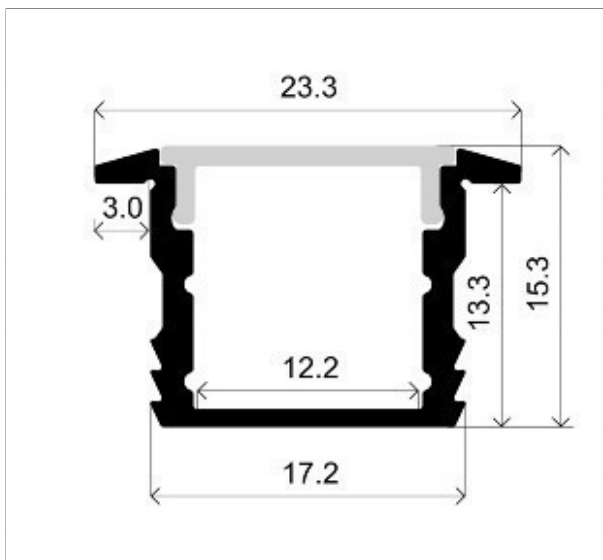
Max. Intensity: 503.64 cd

Pos of Max. Intensity: H0 V1

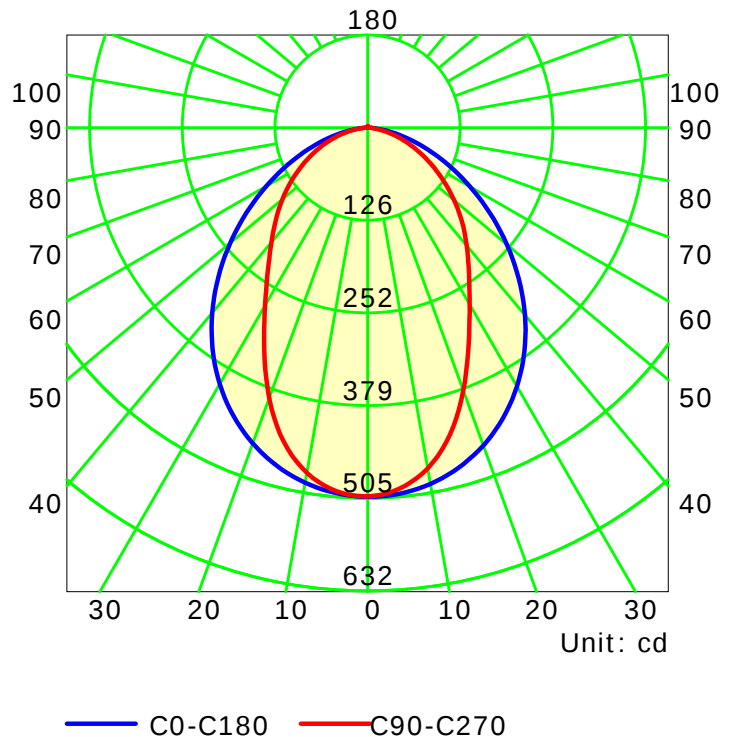
S/MH(C0/C180): 1.20

S/MH(C90/C270): 0.92

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

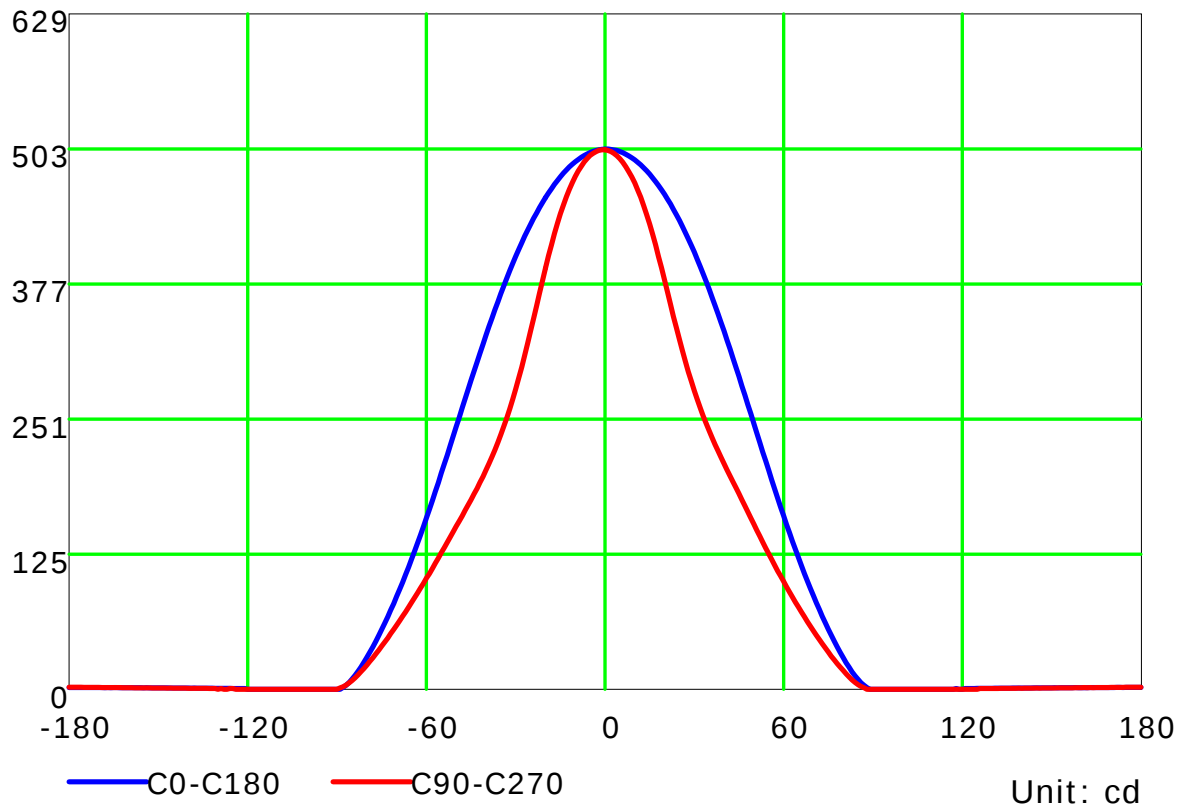
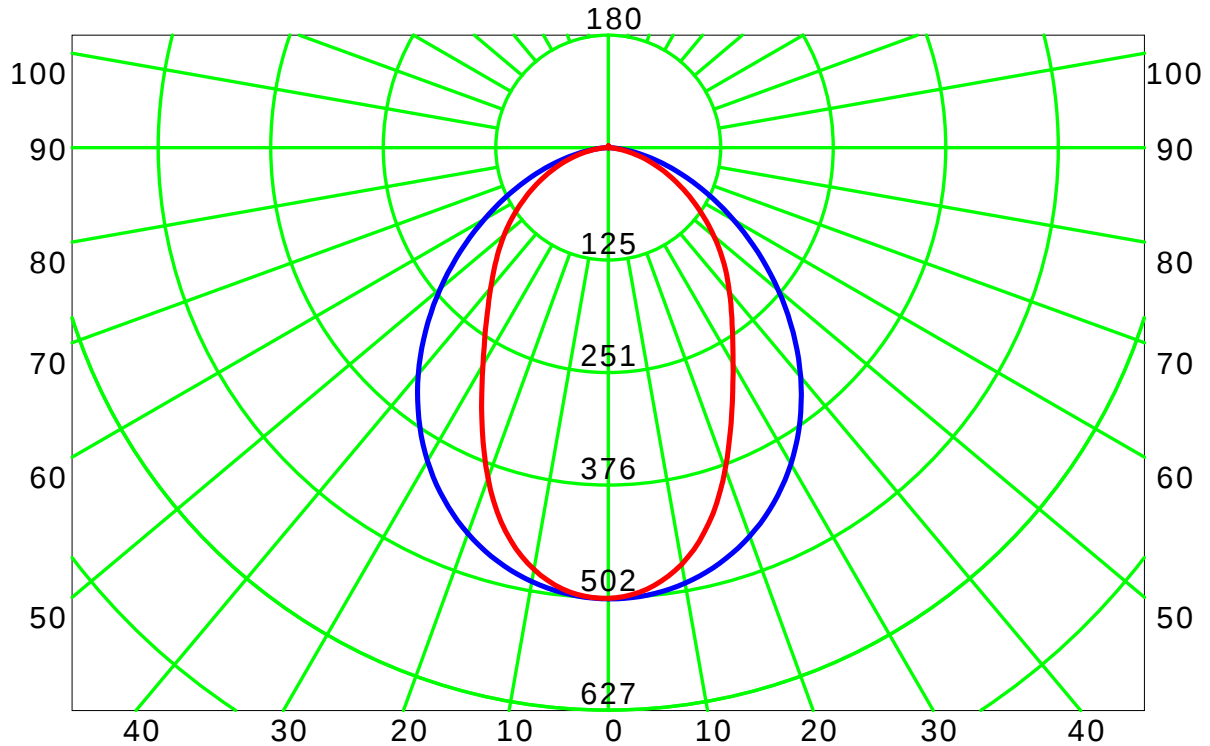
Test Device: GPM-2000

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

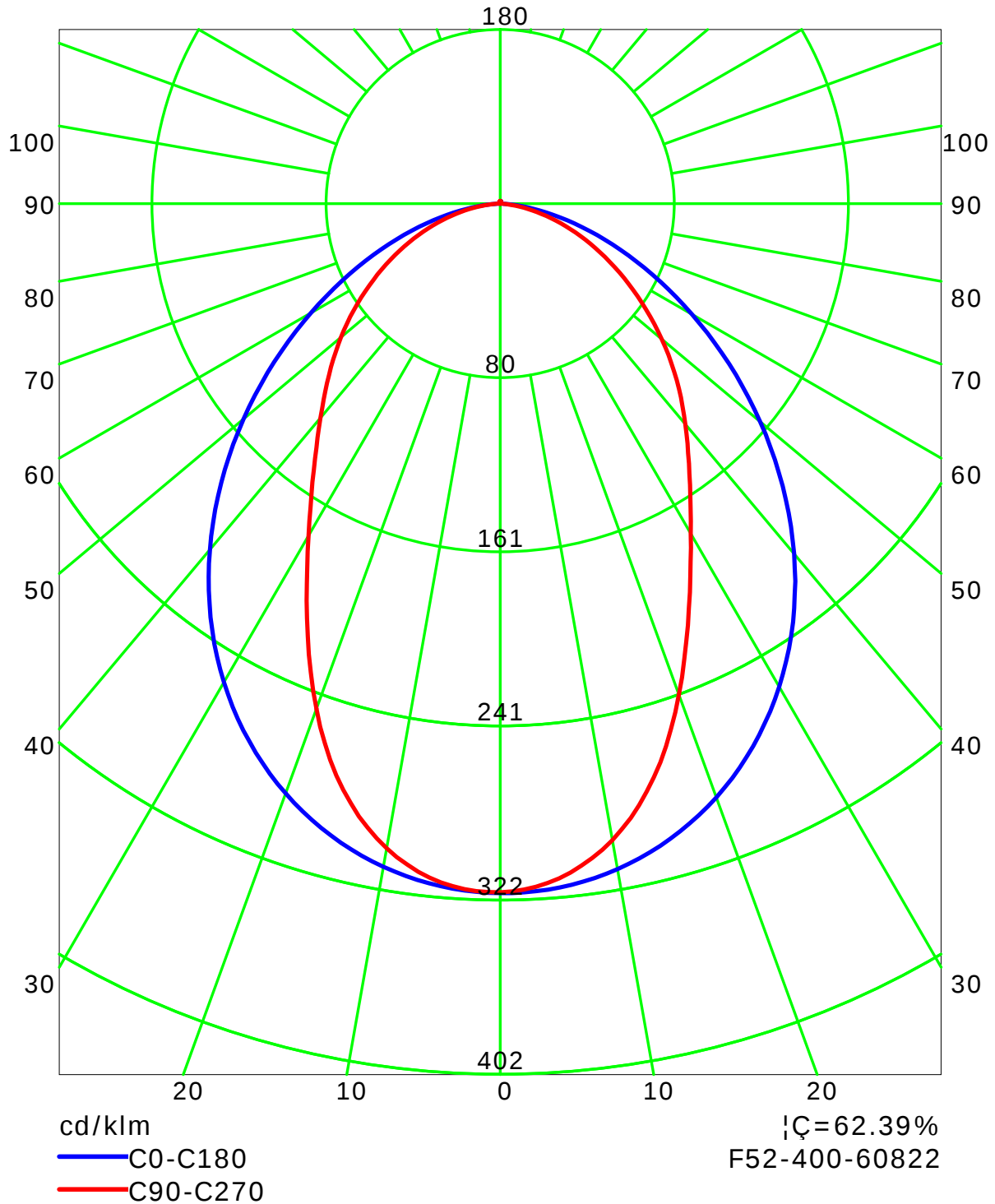
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

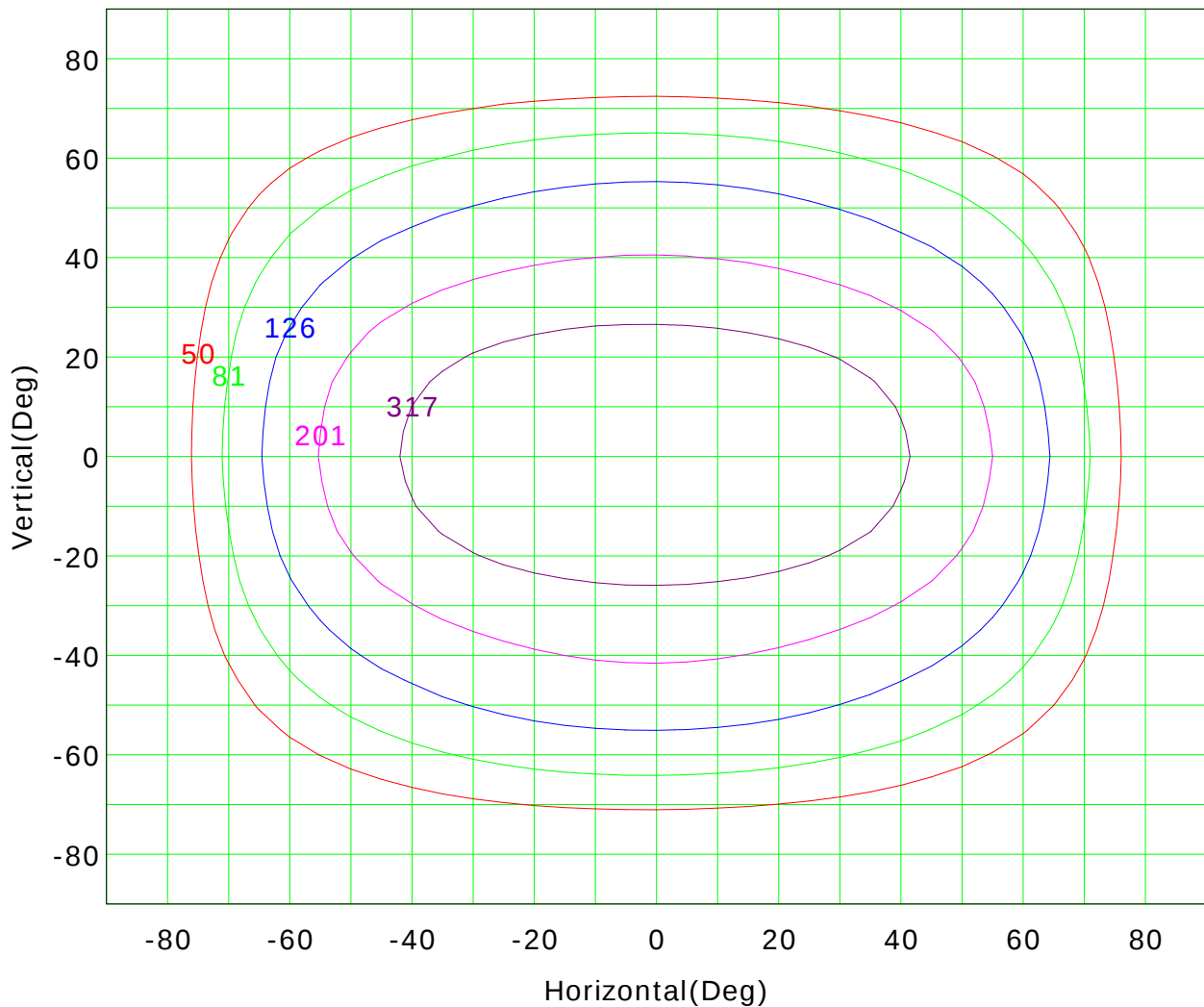
Luminous Intensity Distribution Curve(cd / klm)



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%): 504 cd

(10%):	50 cd	(16%):	81 cd
(25%):	126 cd	(40%):	201 cd
(63%):	317 cd	(100%):	504 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

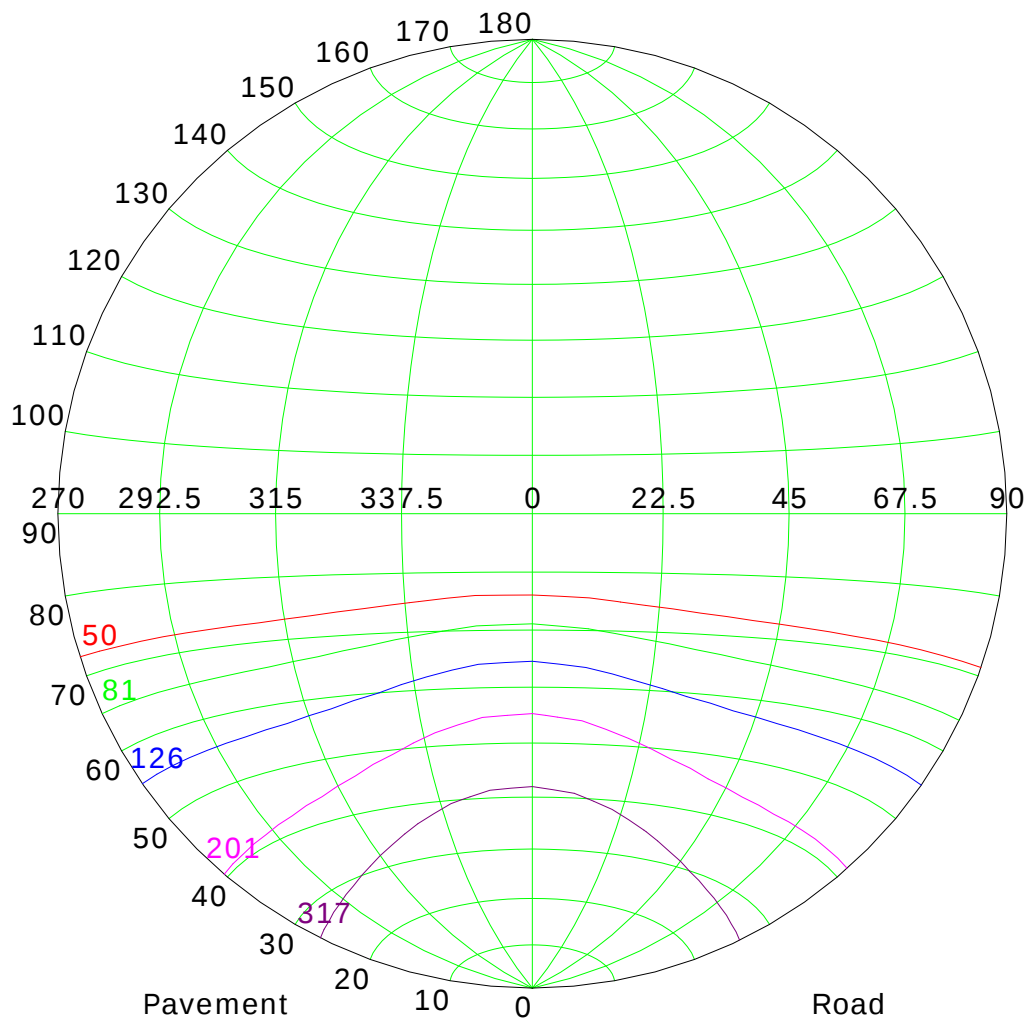
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 504 cd

(10%):	50 cd	(16%):	81 cd
(25%):	126 cd	(40%):	201 cd
(63%):	317 cd	(100%):	504 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

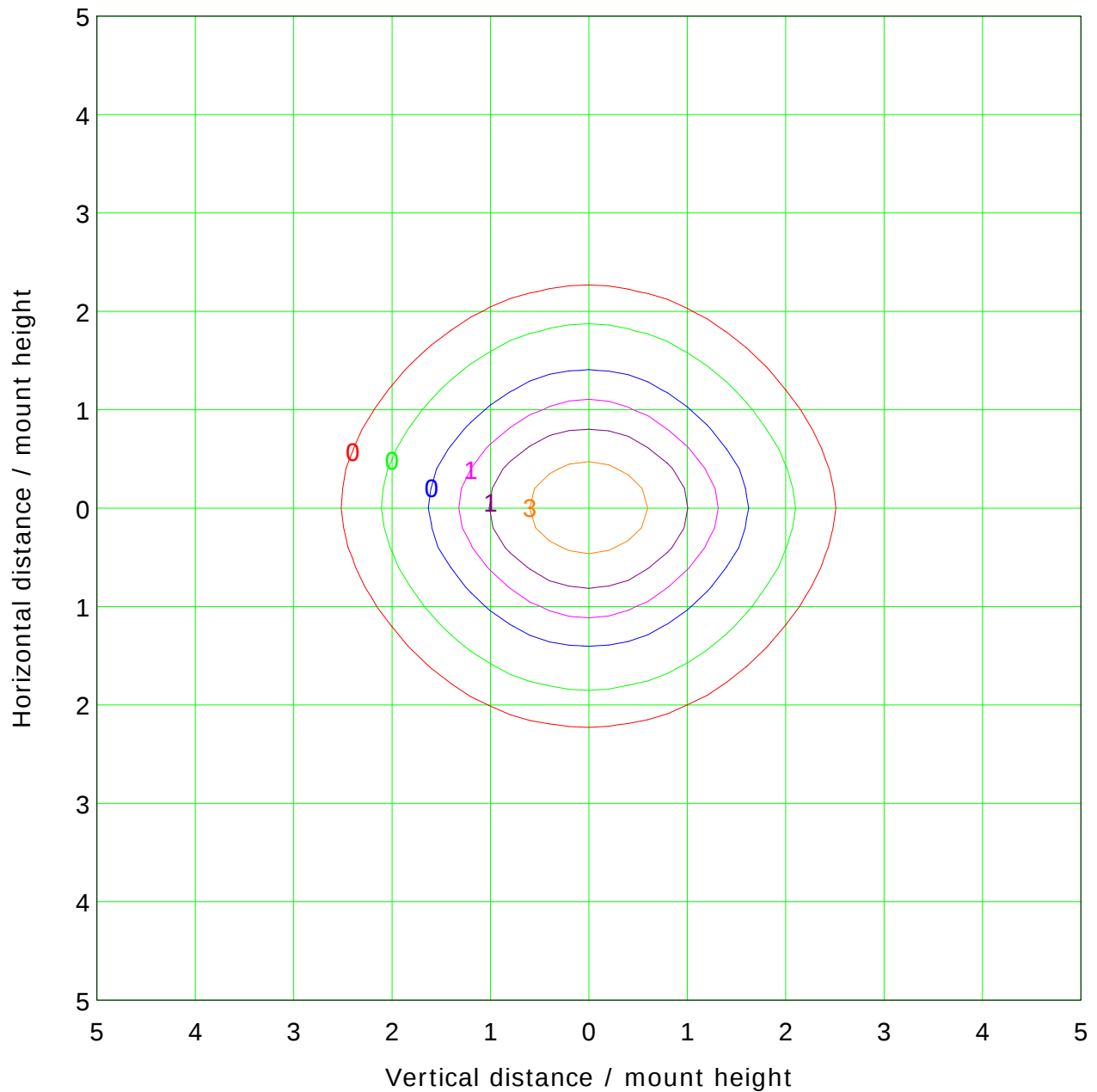
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 5.0 lx

(1%): 0.1 lx	(2%): 0.1 lx
(5%): 0.3 lx	(10%): 0.5 lx
(20%): 1.0 lx	(50%): 2.5 lx
(100%): 5.0 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

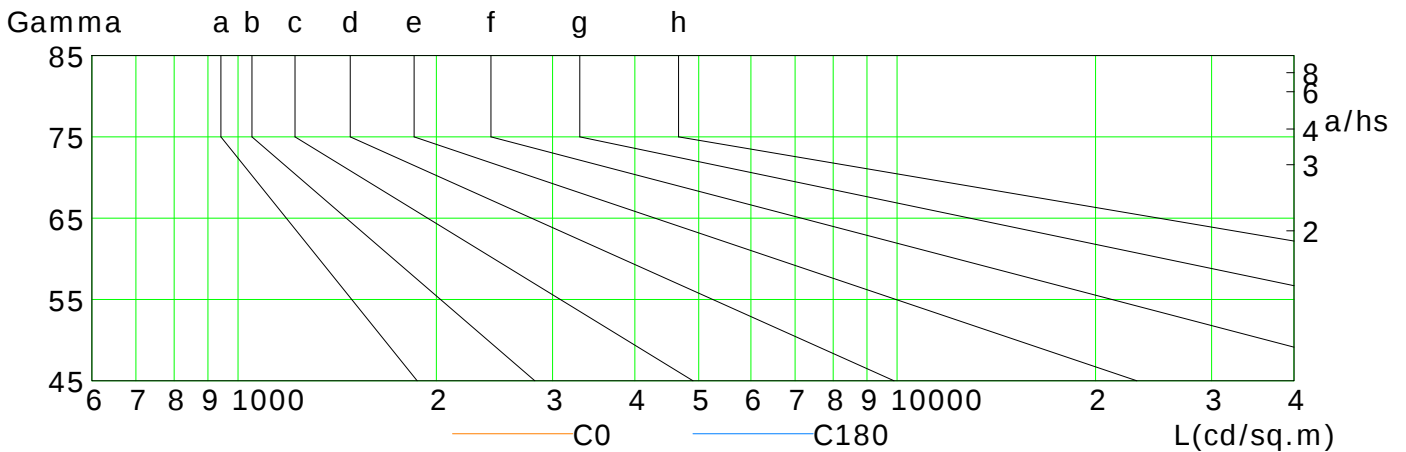
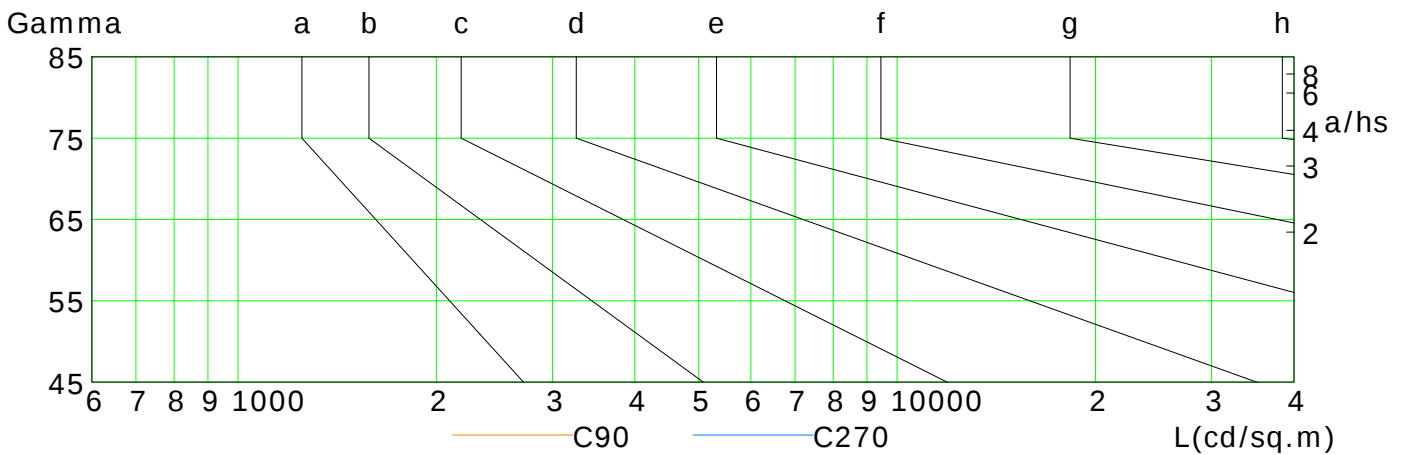
Humidity:

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	292	248	204	162	123	87	56	30	9
C90	182	154	126	101	77	55	35	18	4
C180	288	245	202	160	121	87	56	30	9
C270	177	152	127	104	81	60	40	23	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

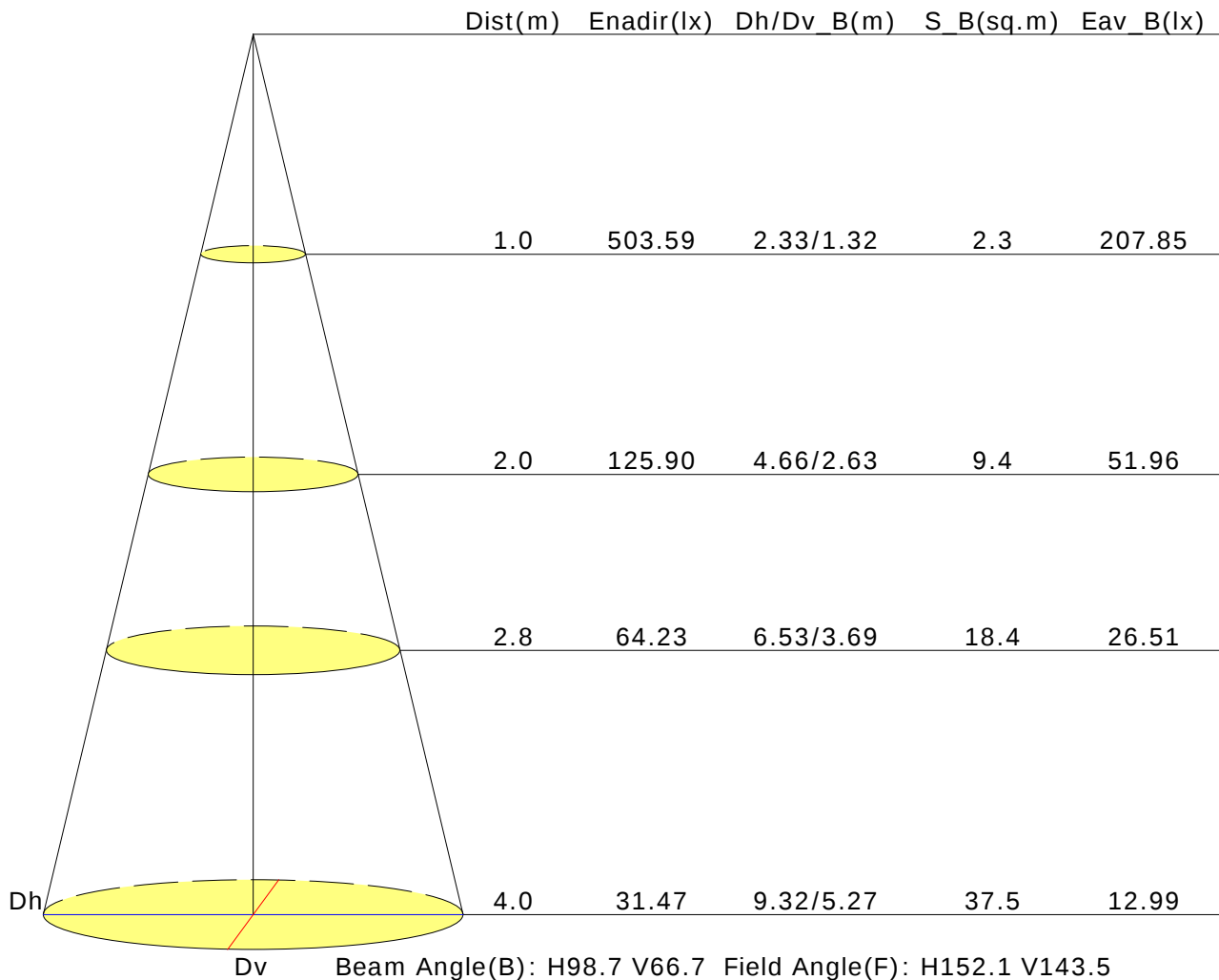
Test Device: GPM-2000

Distance: 7.970 m

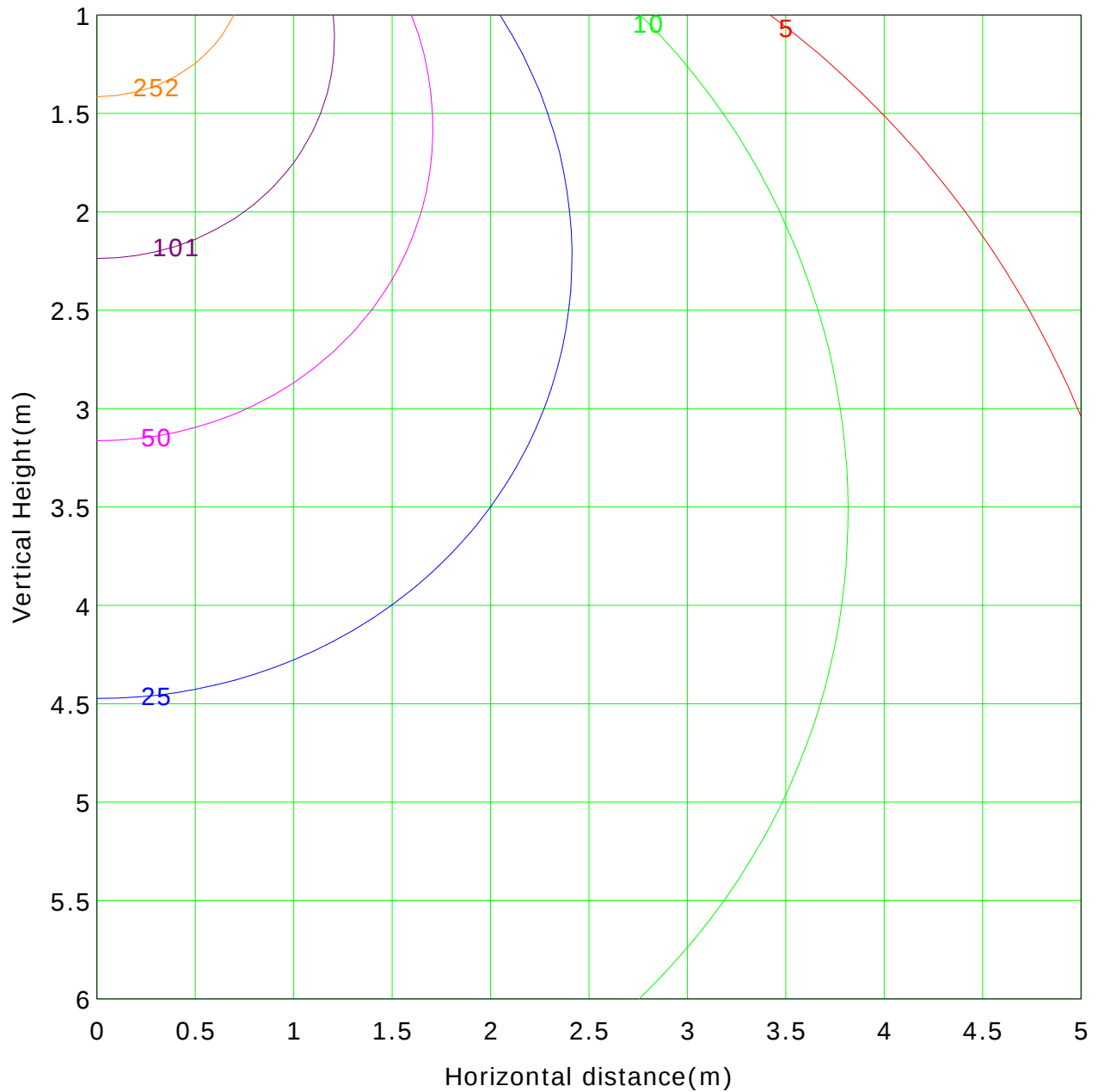
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 6.0m Max Lux: 503.6 lx

(1%): 5.0 lx	(2%): 10.1 lx
(5%): 25.2 lx	(10%): 50.4 lx
(20%): 100.7 lx	(50%): 251.8 lx
(100%): 503.6 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:

Report No.:

Test Time: 31/08/2018 11:57

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-RE02-03 + LLD-03-FM

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1579 lm

Voltage: 24.0 V

Current: 0.593 A

Power: 14.22 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 801.5 lm

Downward Ratio: 50.52%

Total Rated Lamp Lumens: 1579.0 lm

Efficiency: 50.76%

Upward Ratio: 0.24%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.0, 161.2, 160.8, 160.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.8, 111.3, 111.9, 111.9

Luminaire Efficacy Rating (LER): 56.41

Central Intensity: 283.37 cd

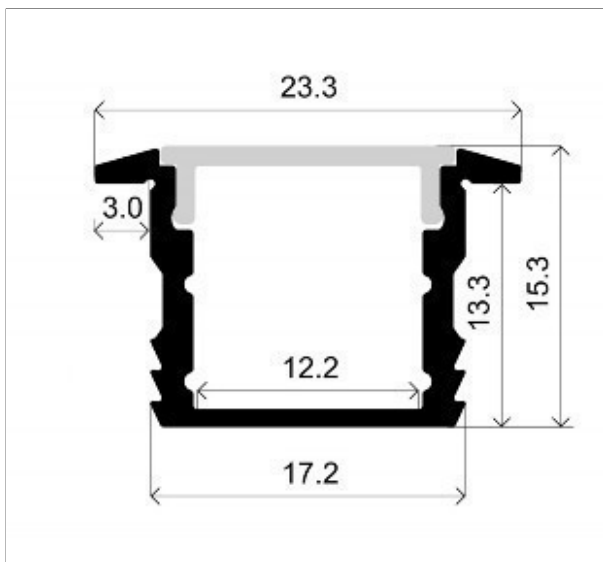
Max. Intensity: 283.37 cd

Pos of Max. Intensity: H0 V0

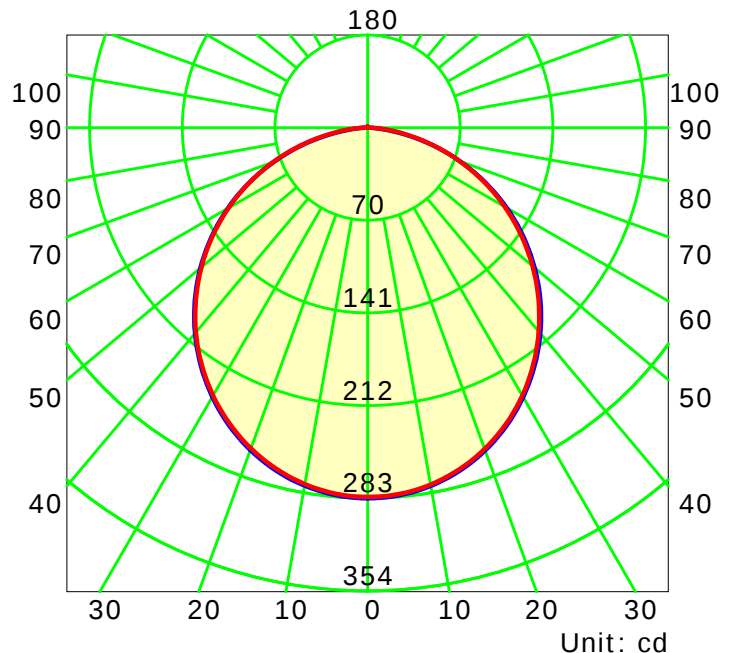
S/MH(C0/C180): 1.25

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

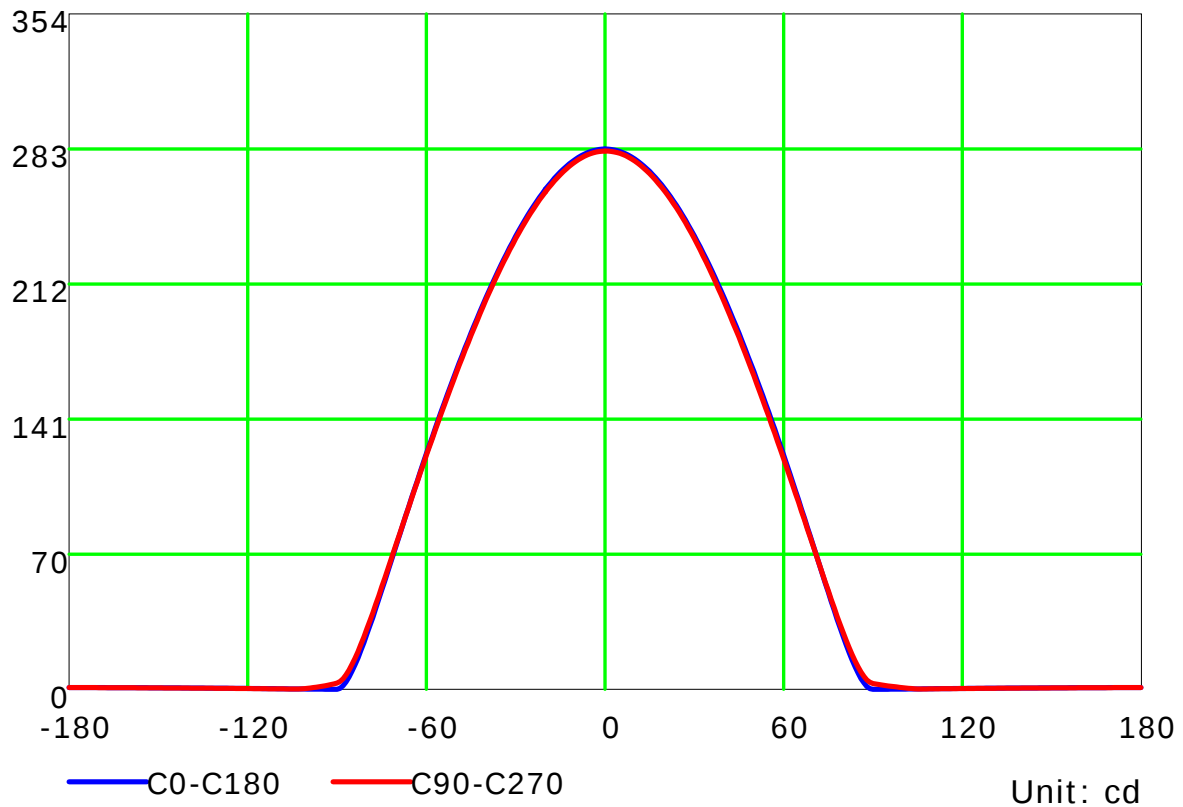
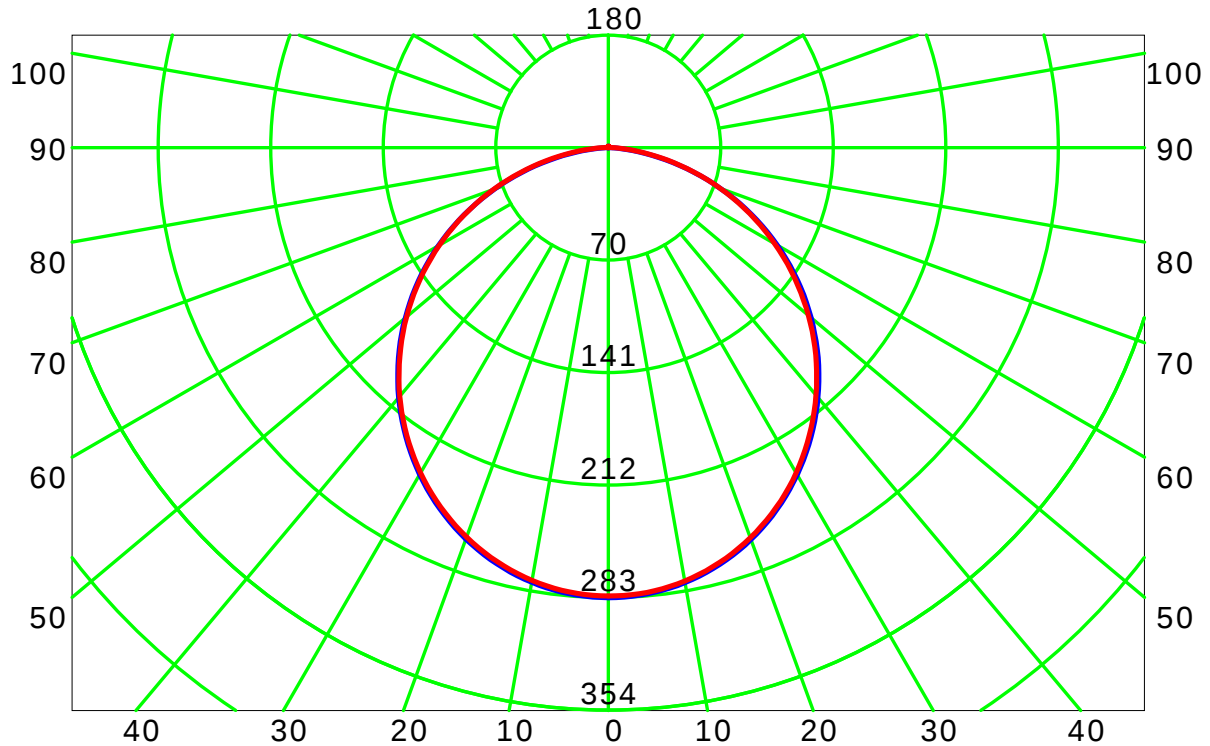
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

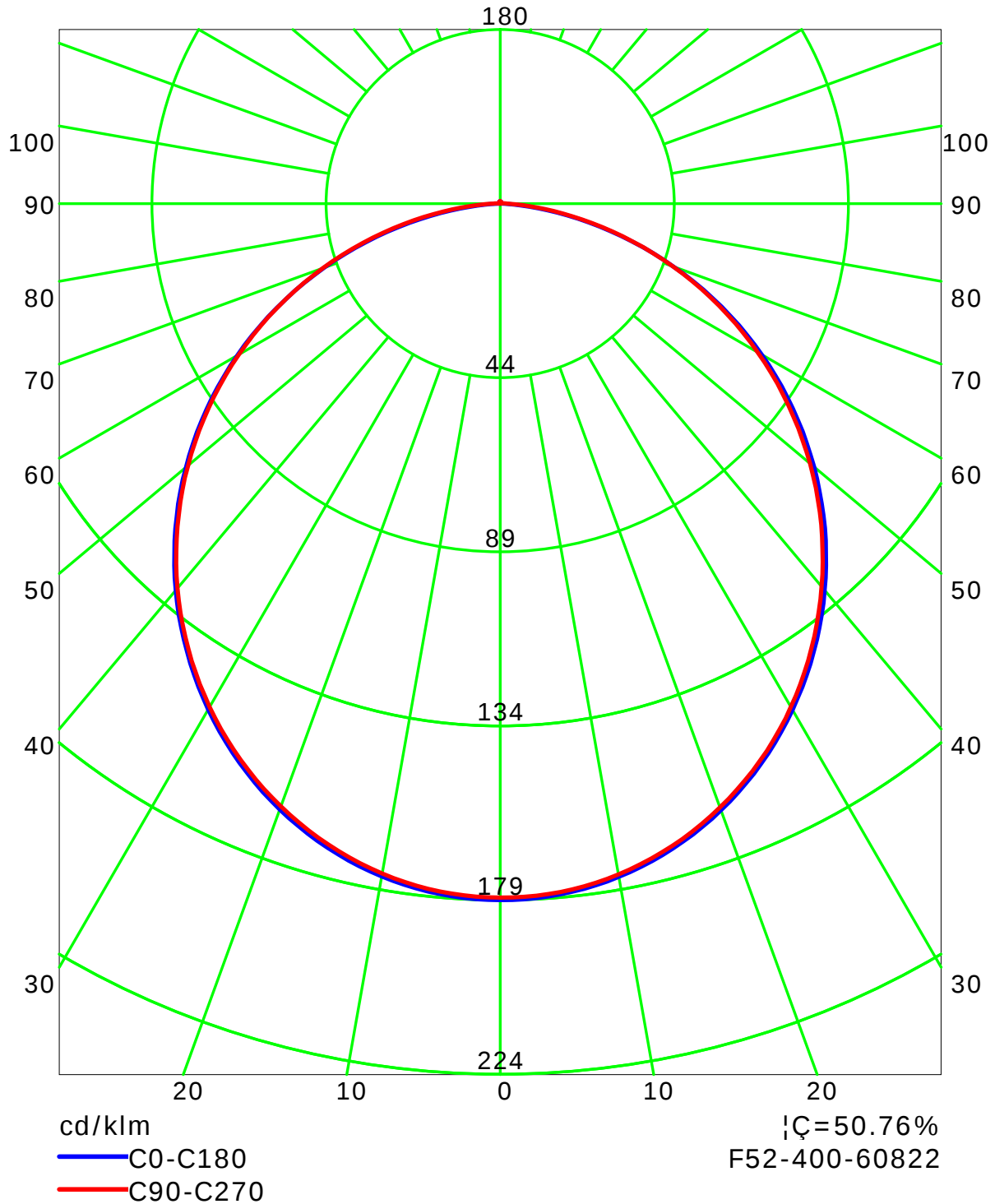
Luminous Intensity Distribution Curve



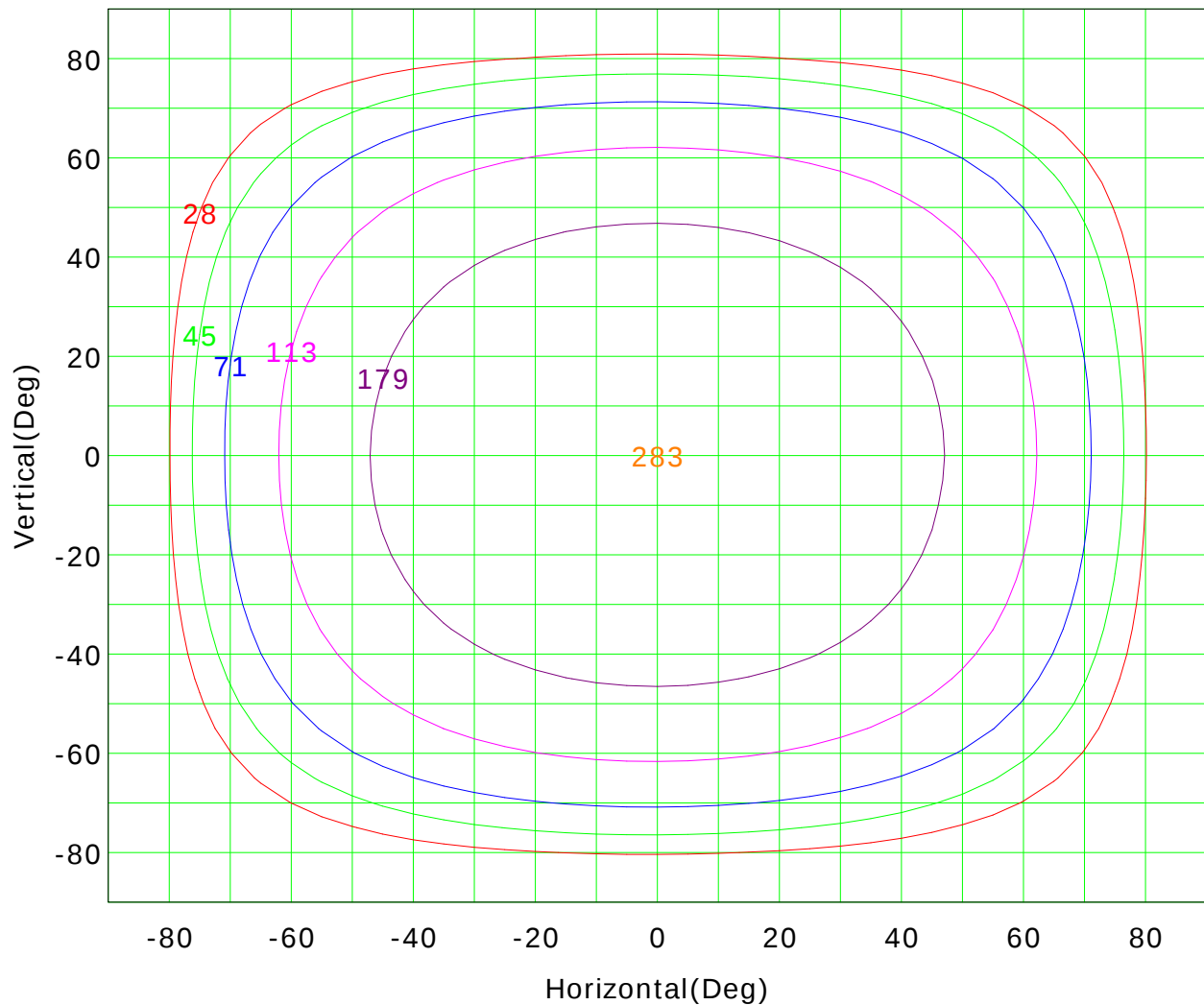
C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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%): 283 cd

(10%):	28 cd	(16%):	45 cd
(25%):	71 cd	(40%):	113 cd
(63%):	179 cd	(100%):	283 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

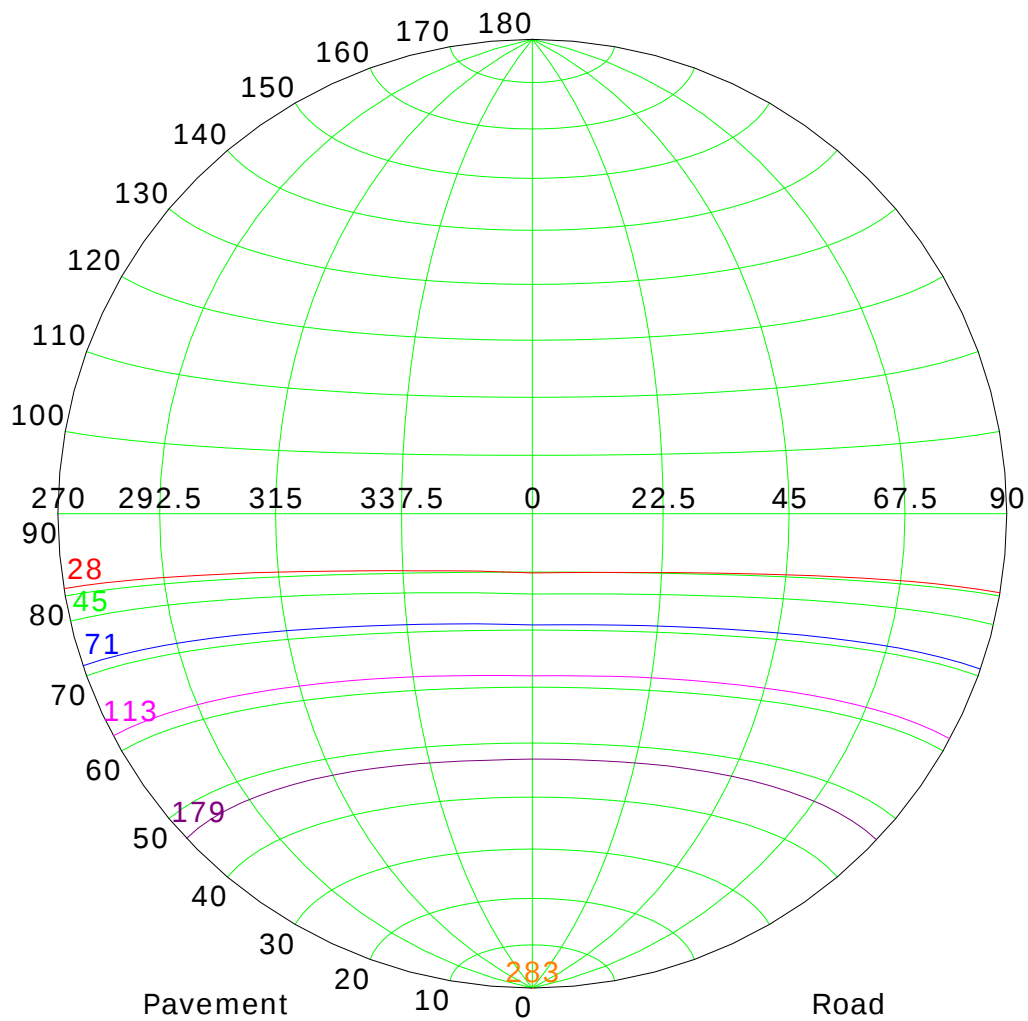
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 283 cd

(10%):	28 cd	(16%):	45 cd
(25%):	71 cd	(40%):	113 cd
(63%):	179 cd	(100%):	283 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

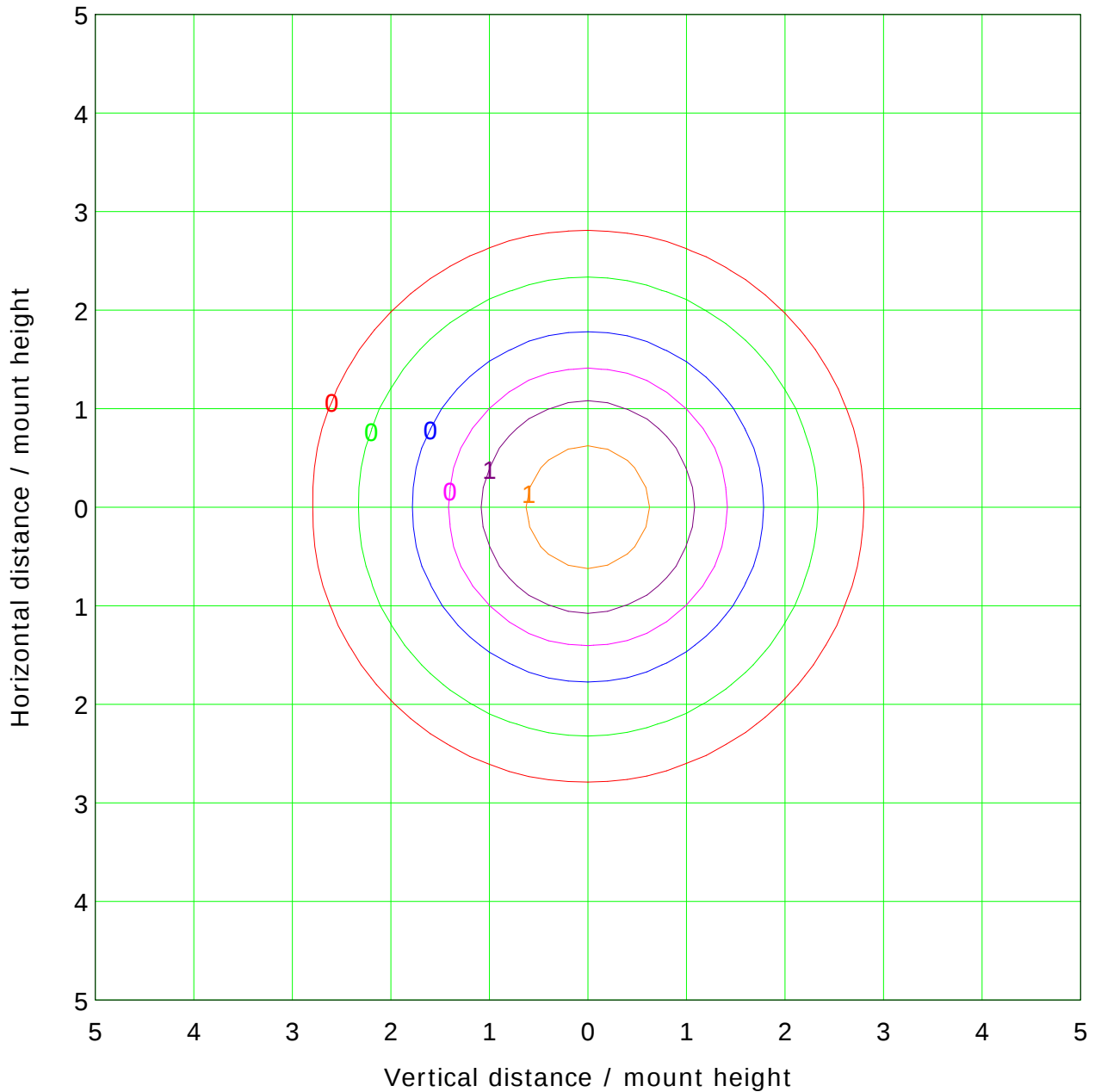
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 2.8 lx

— (1%): 0.0 lx	— (2%): 0.1 lx
— (5%): 0.1 lx	— (10%): 0.3 lx
— (20%): 0.6 lx	— (50%): 1.4 lx
— (100%): 2.8 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

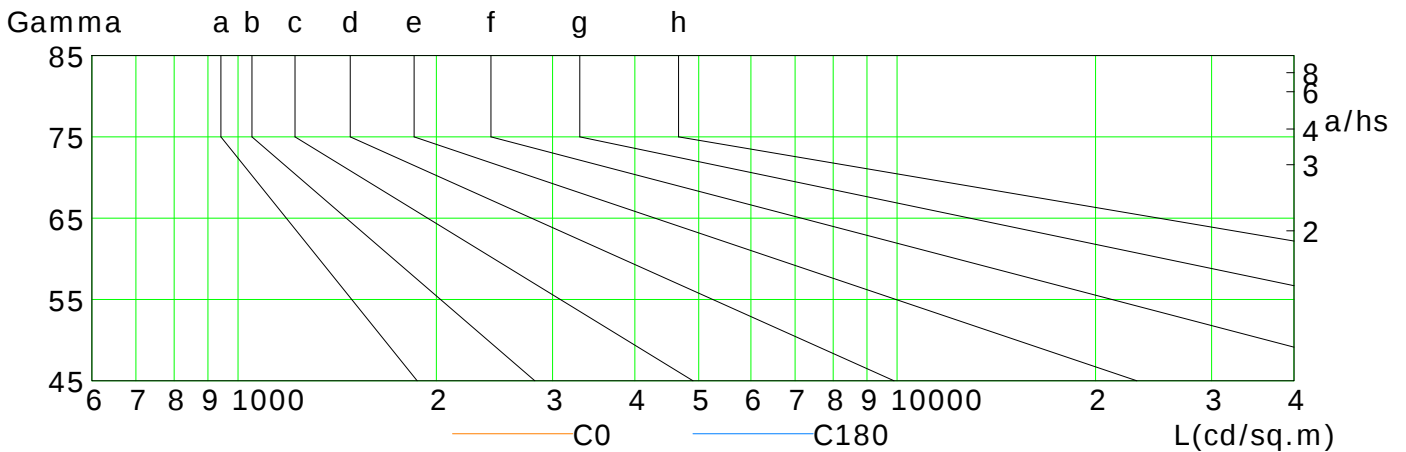
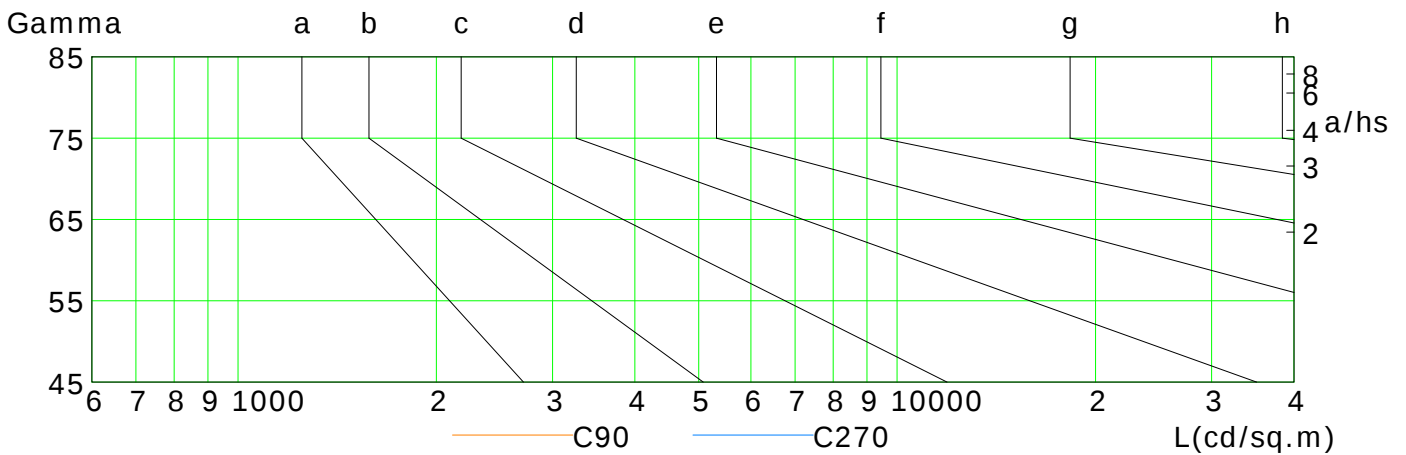
Humidity:

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	187	167	145	123	99	75	51	28	9
C90	185	165	143	121	98	75	52	30	12
C180	187	167	146	124	100	76	52	29	10
C270	186	166	145	123	100	77	54	32	13

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

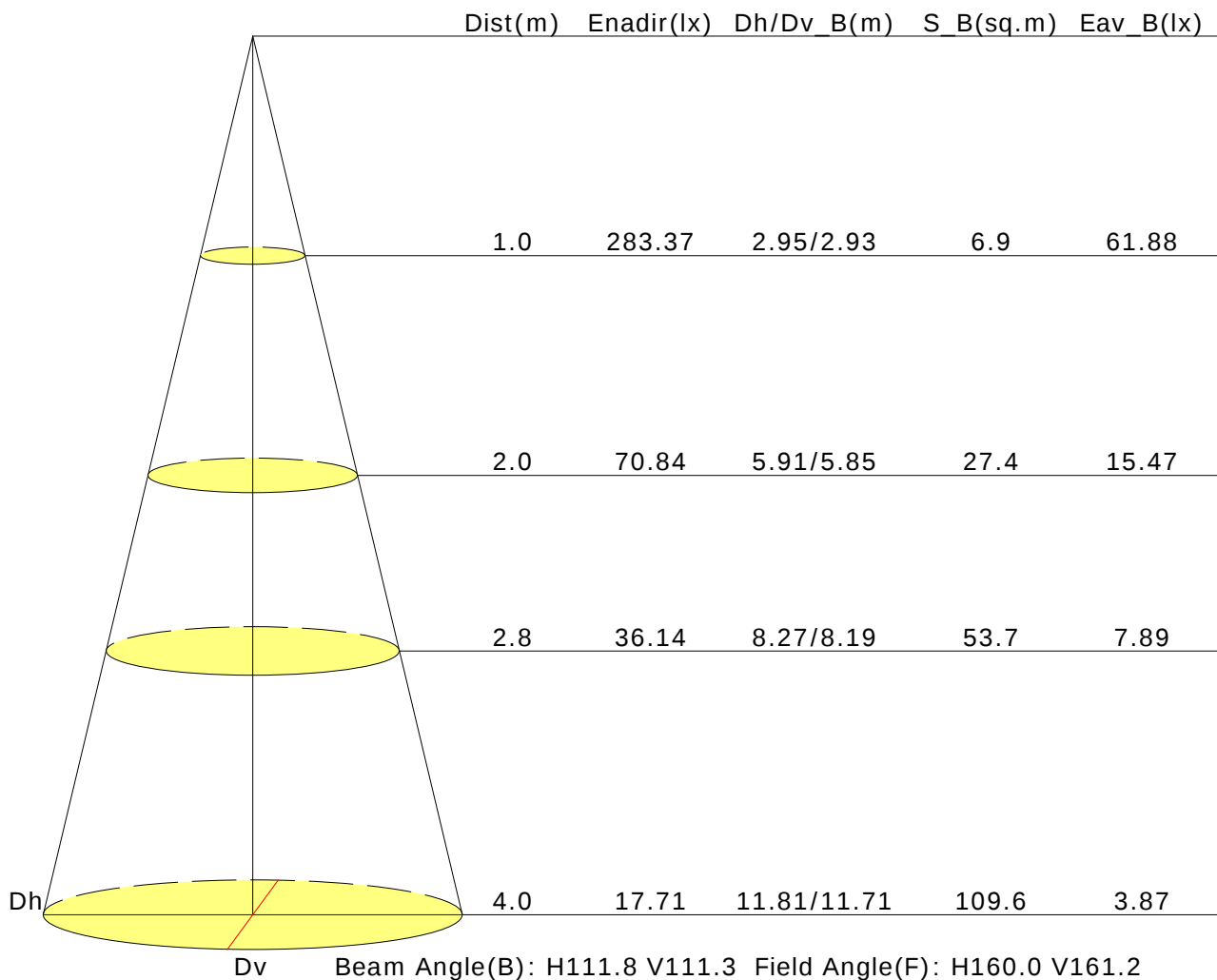
Test Device: GPM-2000

Distance: 7.970 m

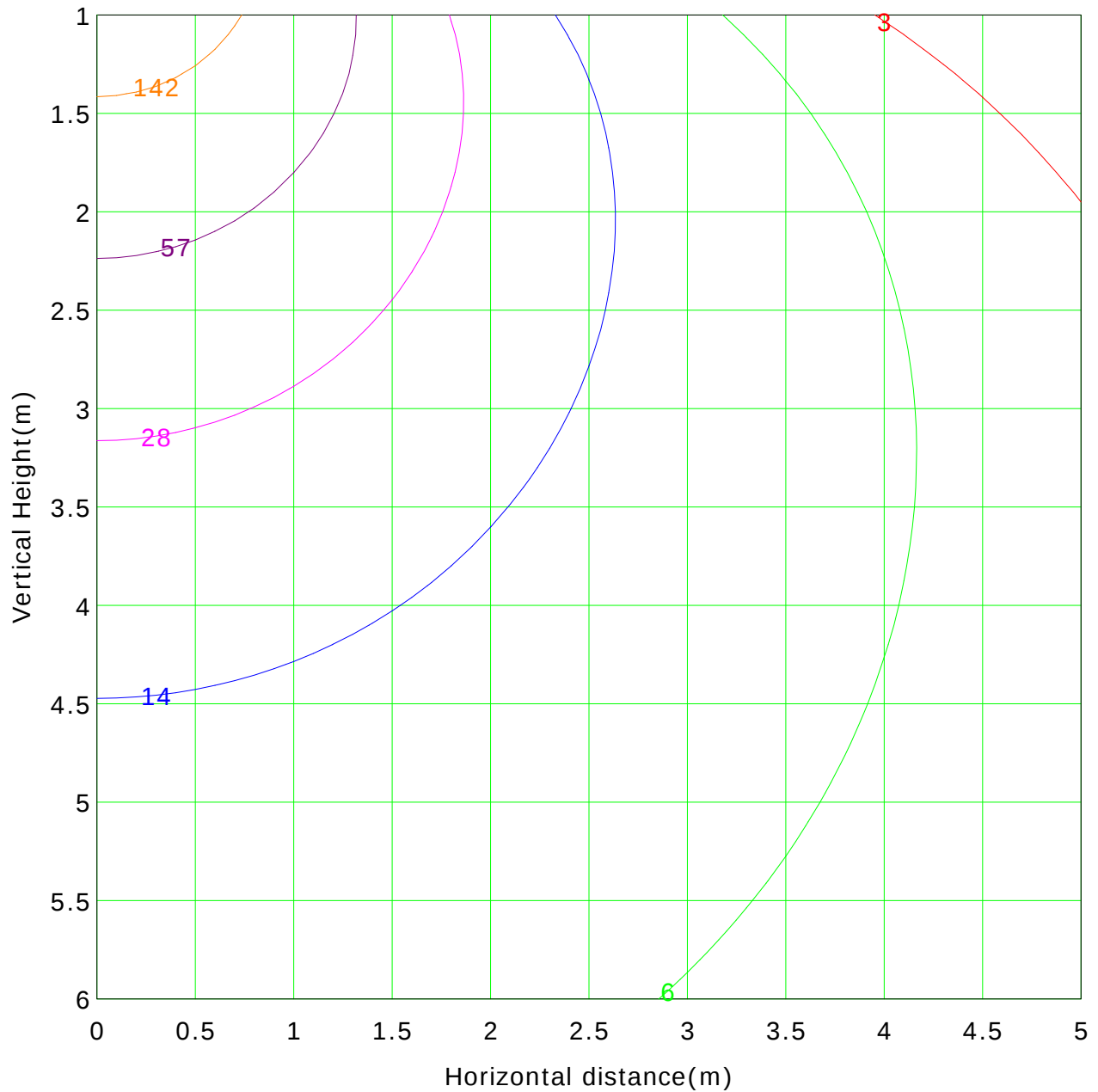
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 6.0m	Max Lux: 283.4 lx
(1%): 2.8 lx	(2%): 5.7 lx	
(5%): 14.2 lx	(10%): 28.3 lx	
(20%): 56.7 lx	(50%): 141.7 lx	
(100%): 283.4 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:

Report No.:

Test Time: 03/09/2018 11:46

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-RE02-03 + LLD-03-FS

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1579 lm

Voltage: 24.0 V

Current: 0.604 A

Power: 14.48 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 712.1 lm

Downward Ratio: 44.94%

Total Rated Lamp Lumens: 1579.0 lm

Efficiency: 45.10%

Upward Ratio: 0.16%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.5, 162.9, 163.2, 163.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.3, 109.6, 110.2, 110.2

Luminaire Efficacy Rating (LER): 49.23

Central Intensity: 252.69 cd

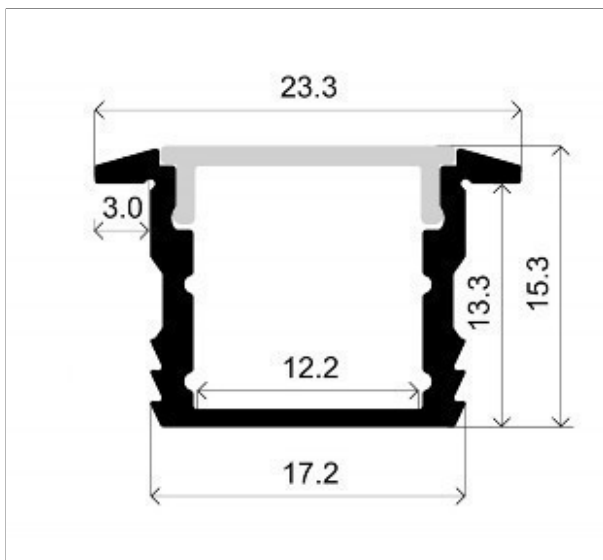
Max. Intensity: 252.7 cd

Pos of Max. Intensity: H270 V1

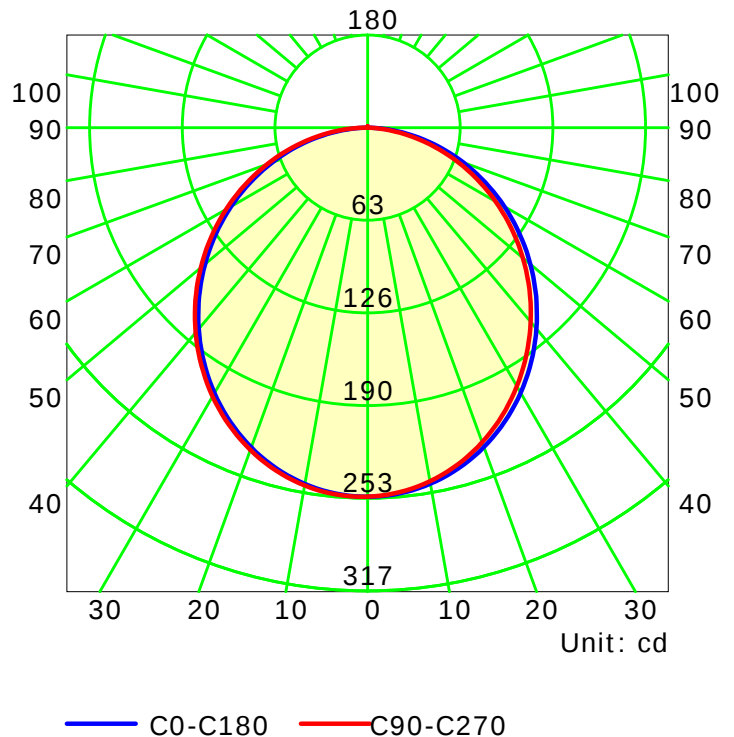
S/MH(C0/C180): 1.23

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

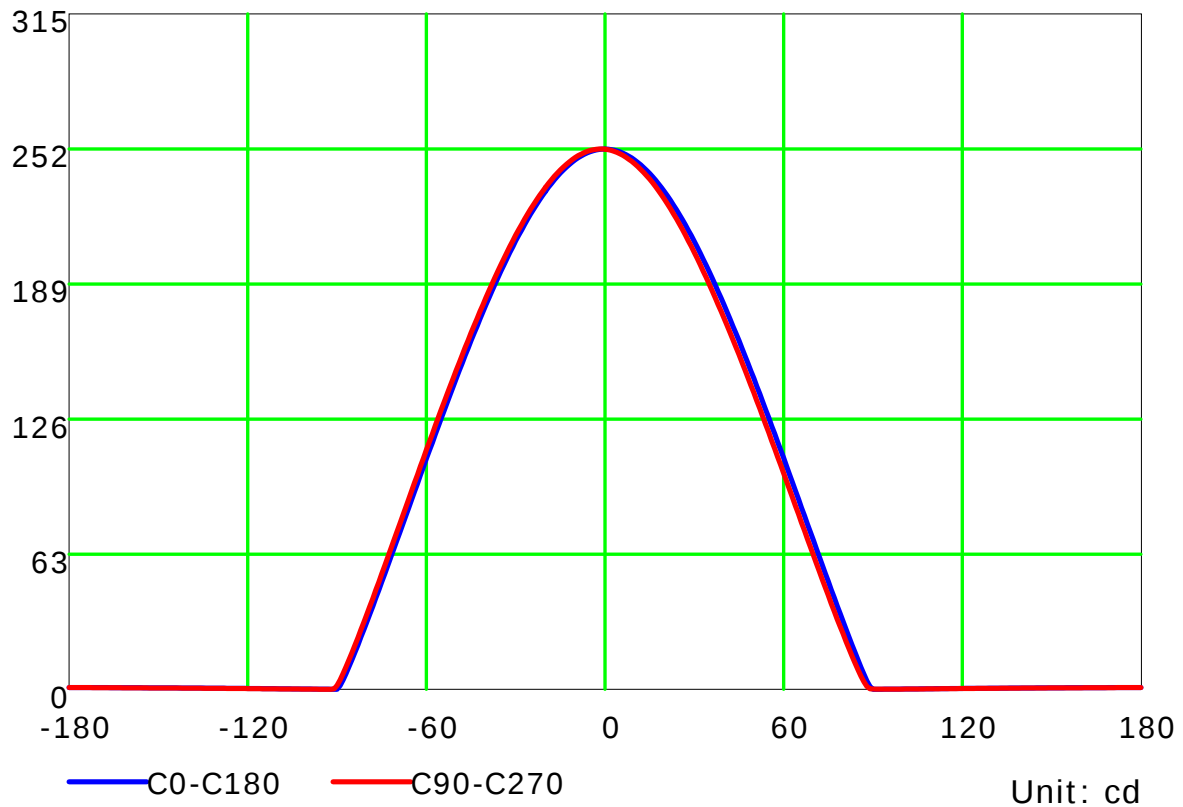
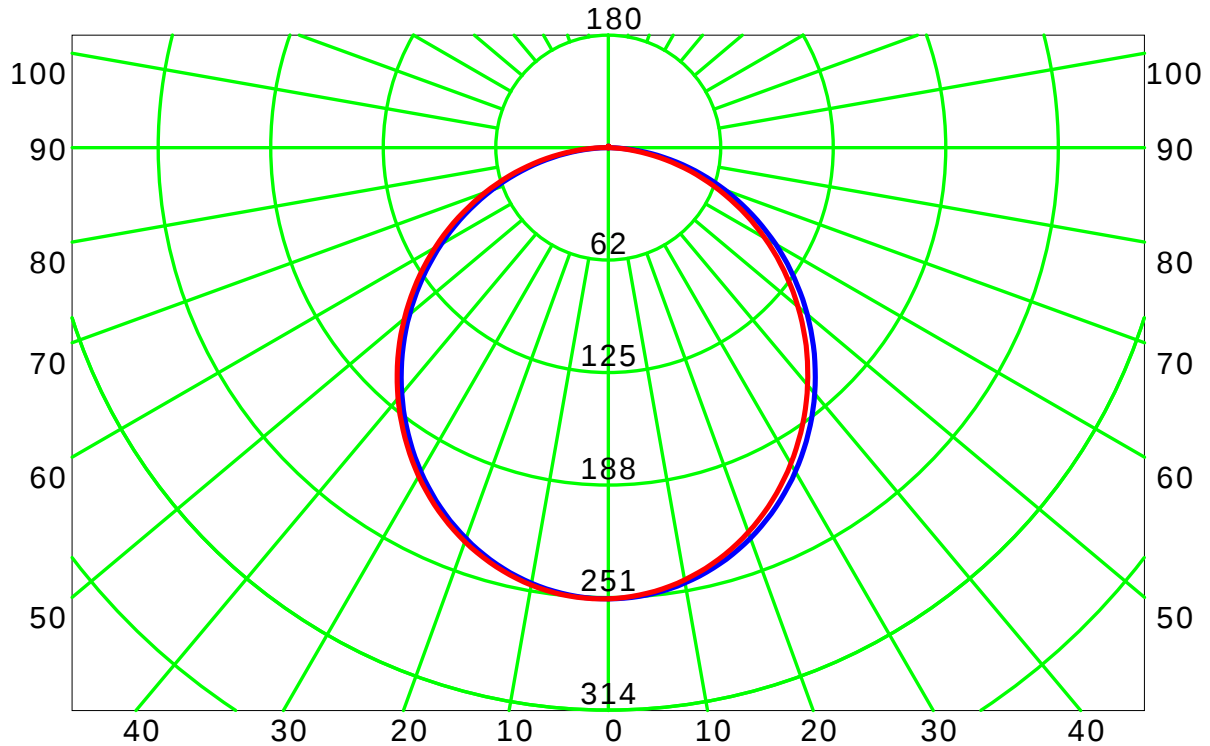
Test Device: GPM-2000

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

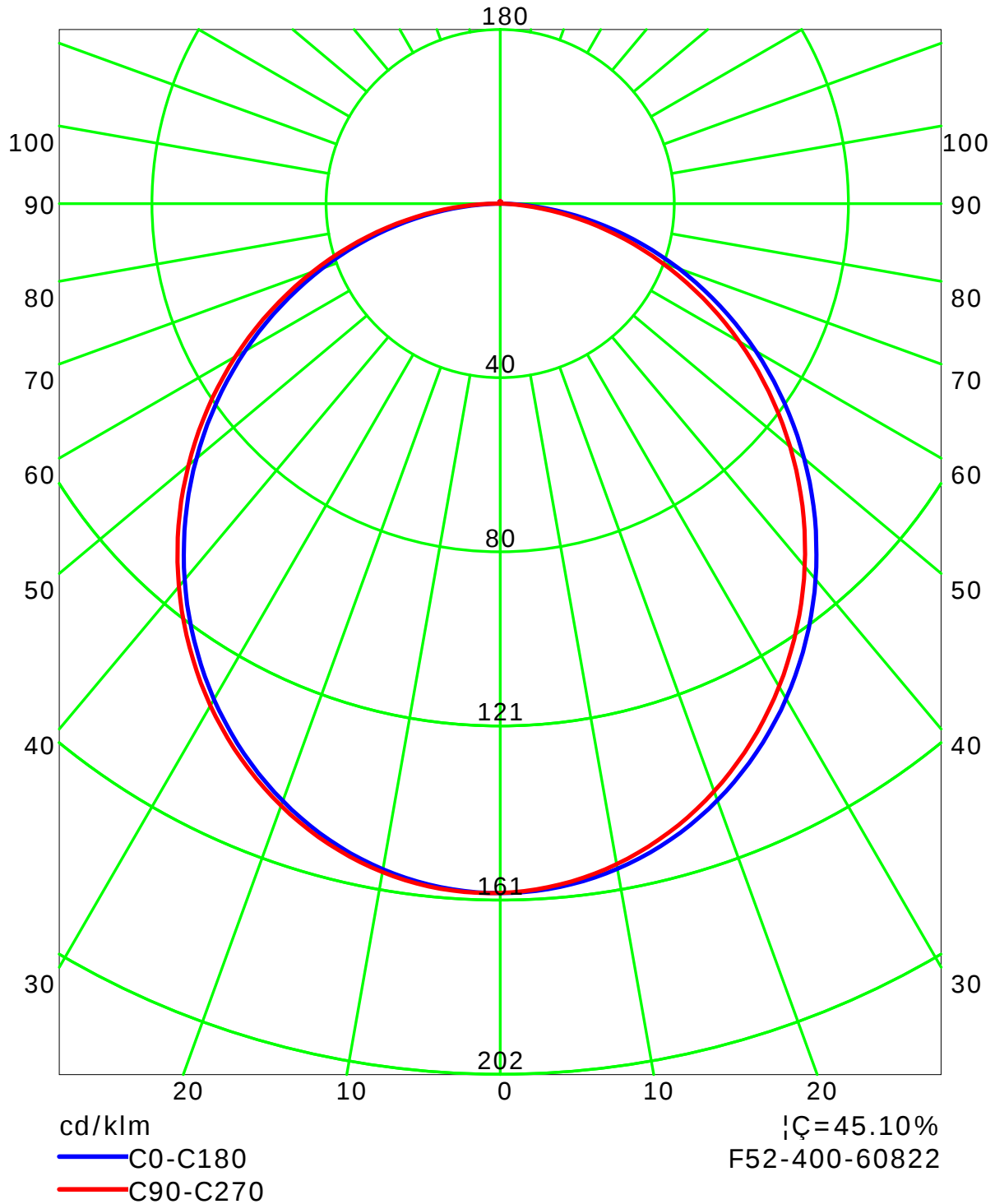
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

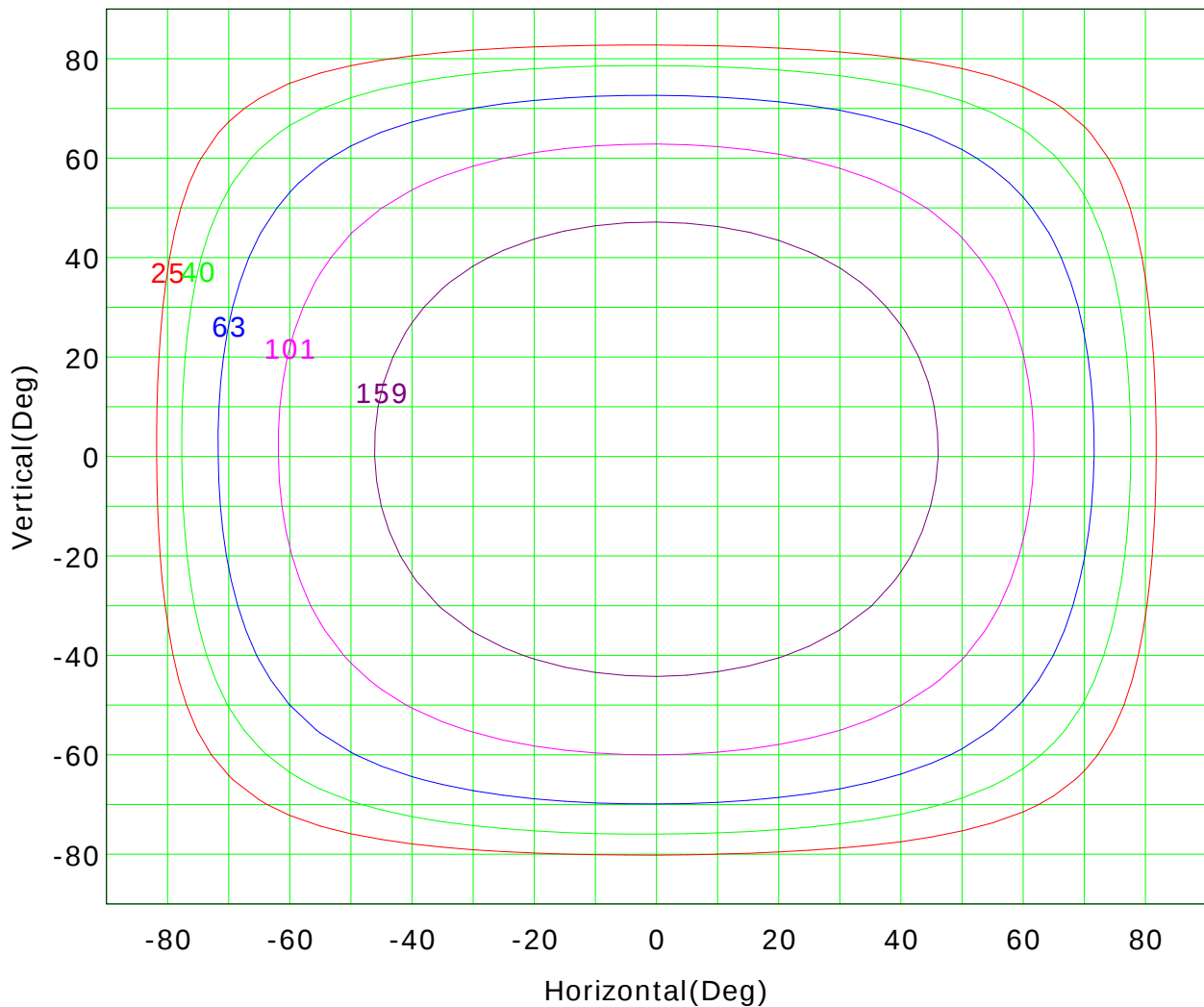
Luminous Intensity Distribution Curve(cd / klm)



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%): 253 cd

(10%):	25 cd	(16%):	40 cd
(25%):	63 cd	(40%):	101 cd
(63%):	159 cd	(100%):	253 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

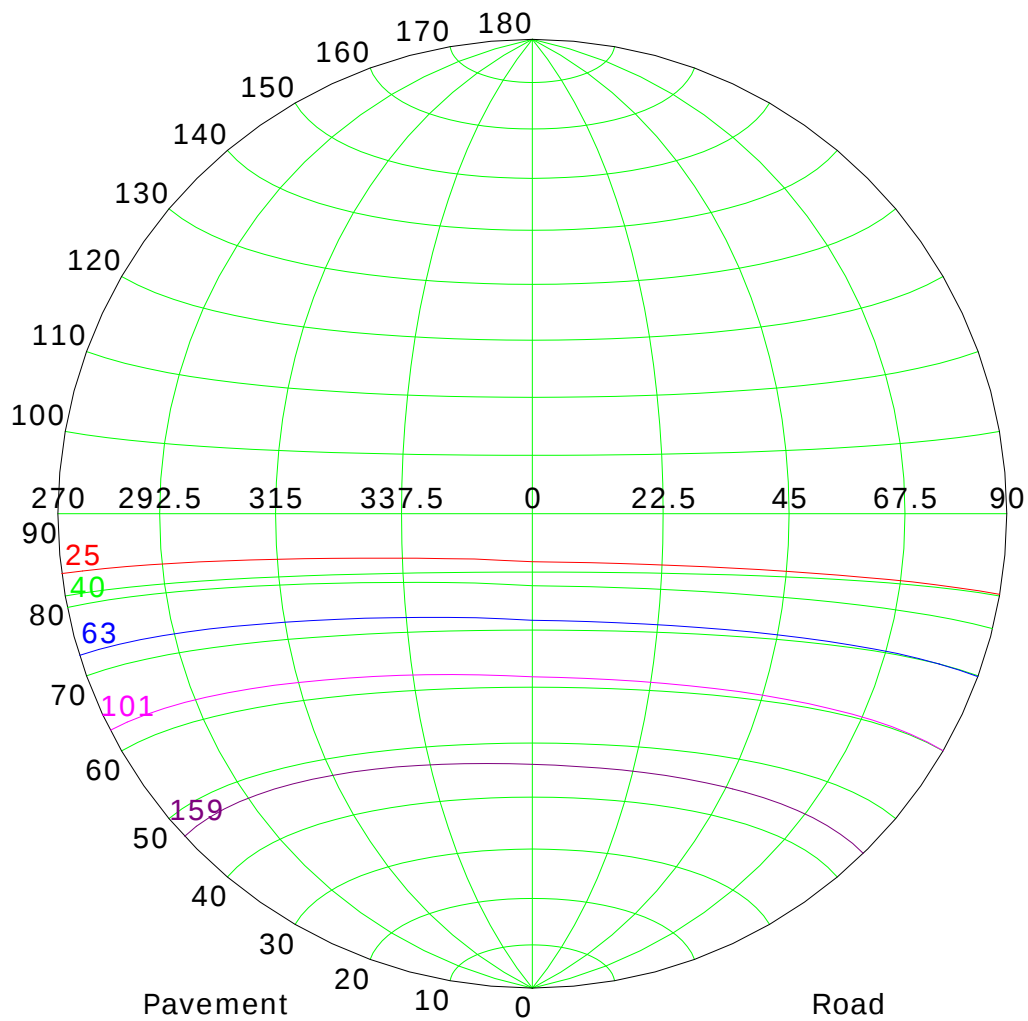
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 253 cd

(10%):	25 cd	(16%):	40 cd
(25%):	63 cd	(40%):	101 cd
(63%):	159 cd	(100%):	253 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

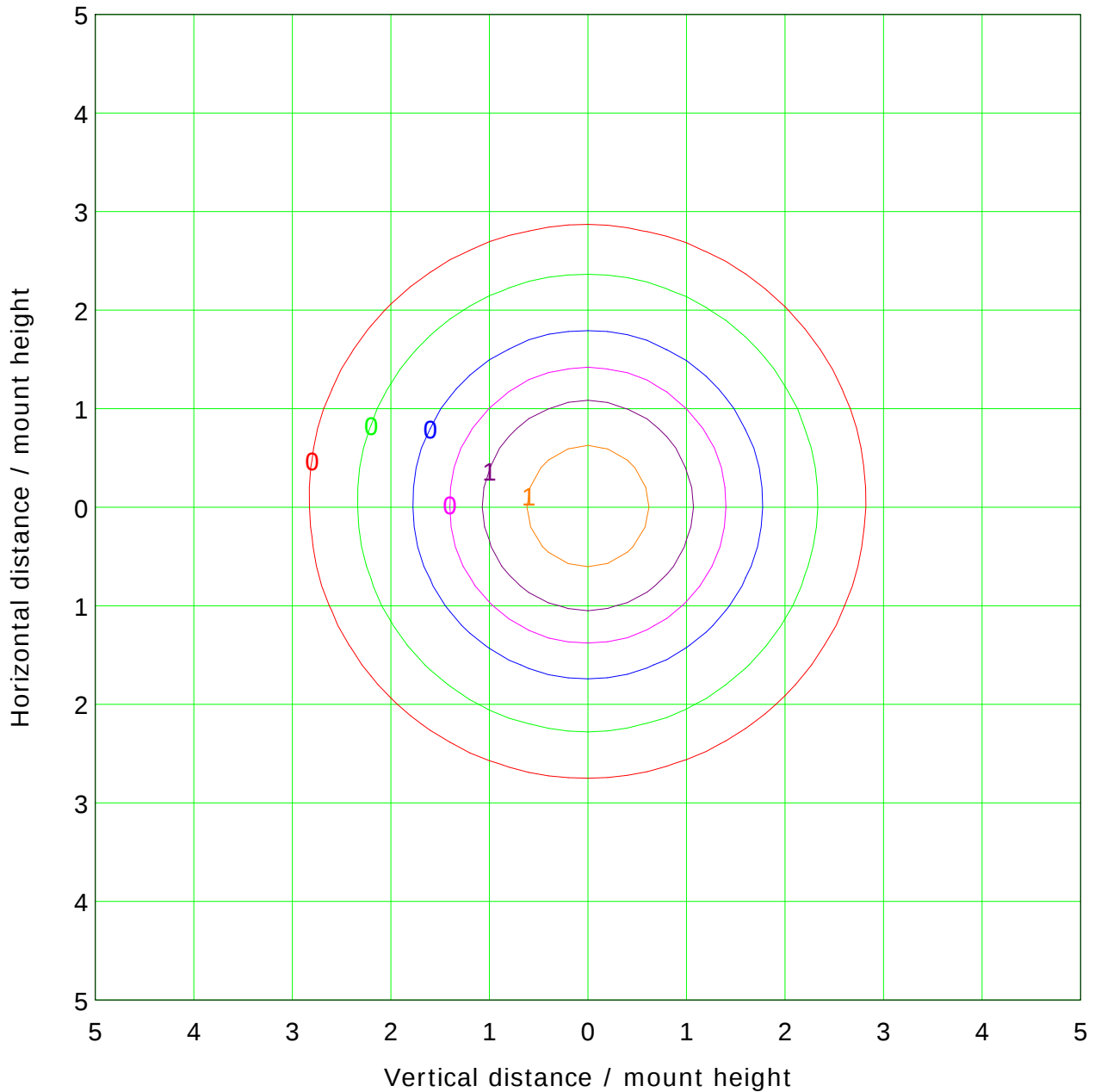
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

IsoLux Plot



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

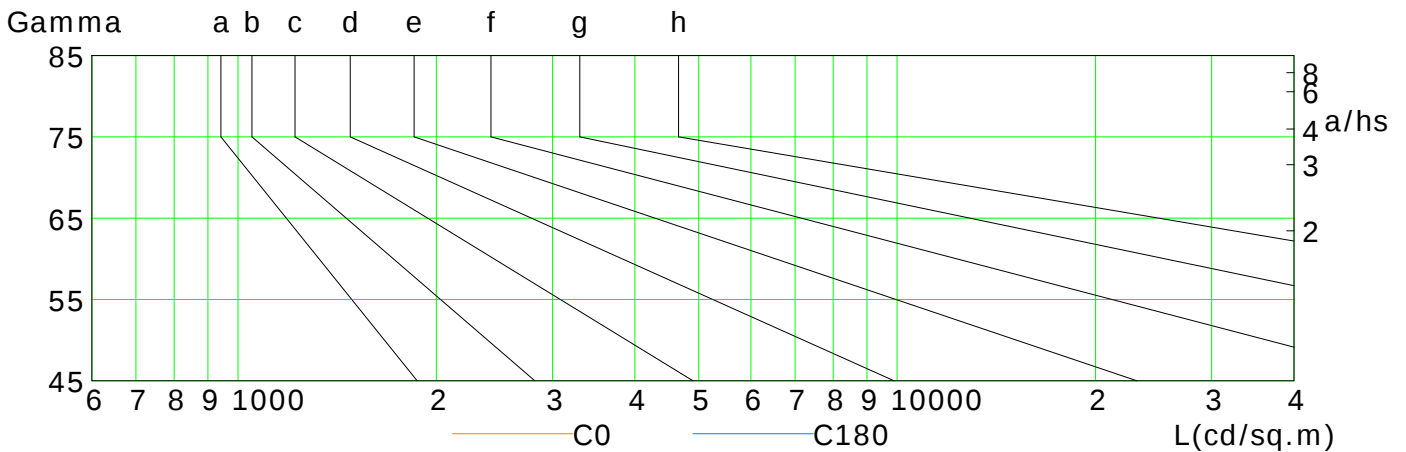
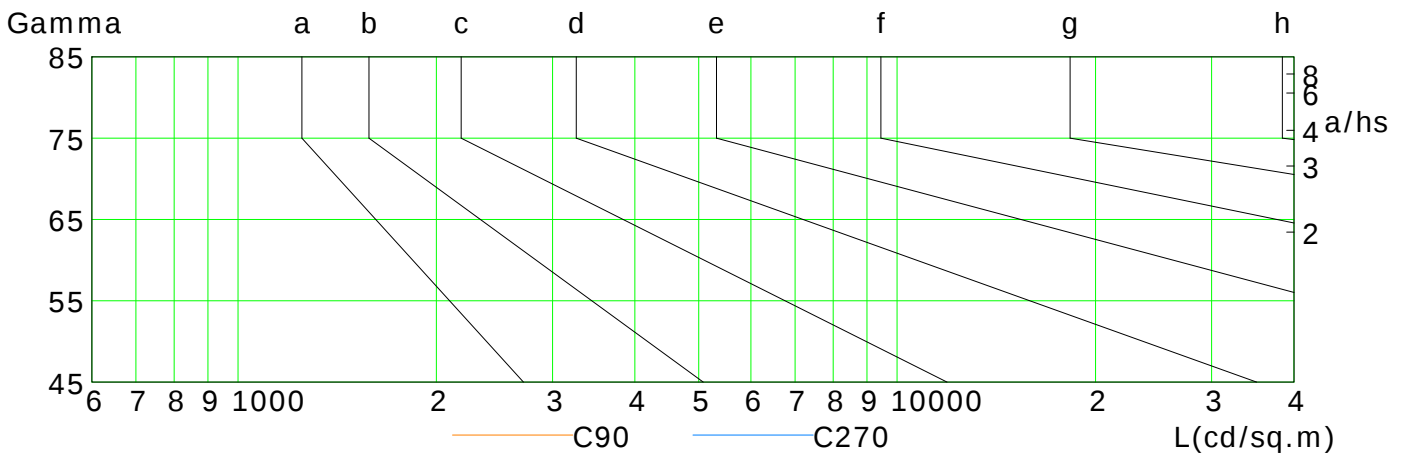
Humidity:

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	163	145	127	108	89	70	50	32	14
C90	157	139	120	101	82	63	44	26	9
C180	163	145	127	108	89	69	50	32	14
C270	167	149	131	112	93	73	54	35	17

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

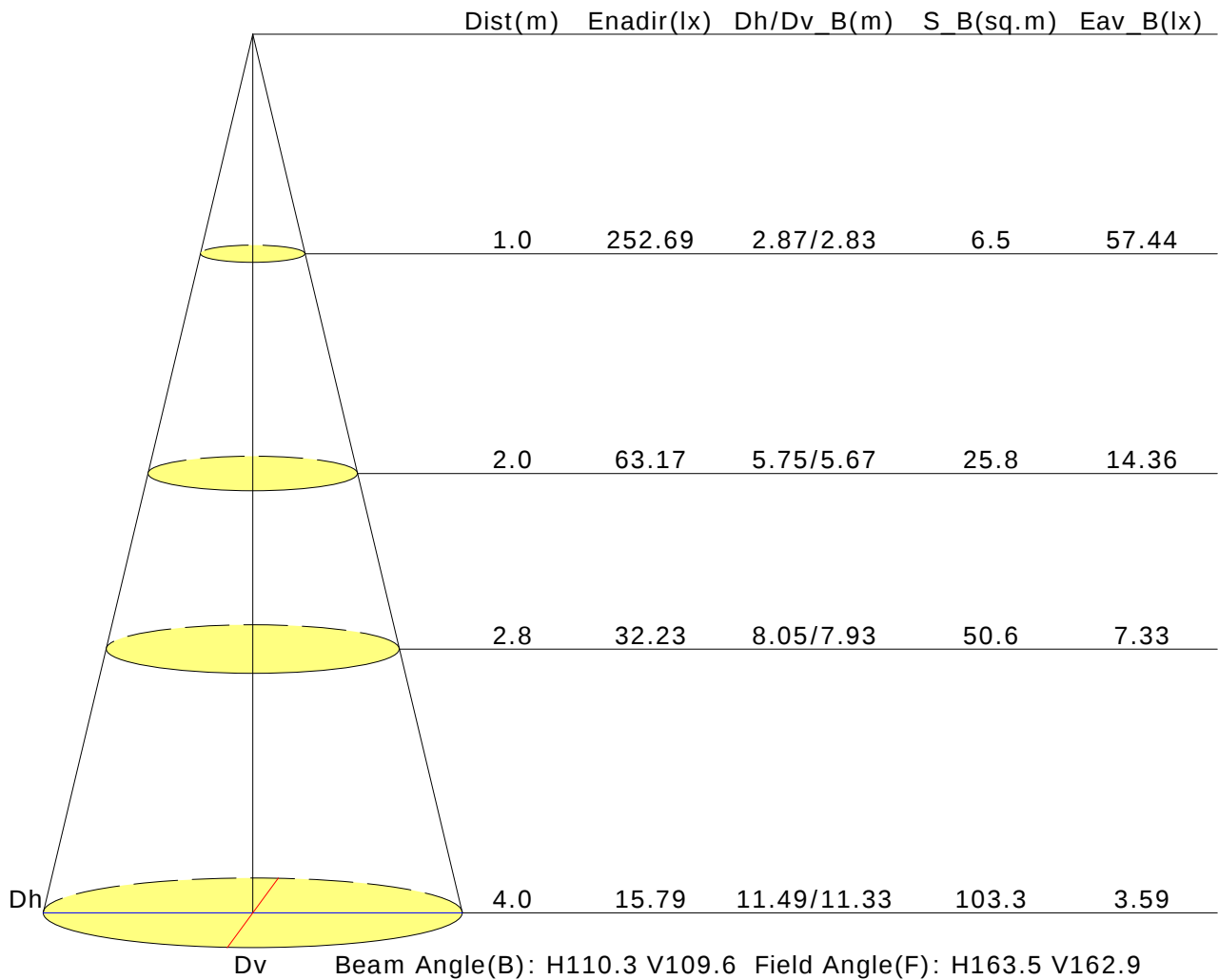
Test Device: GPM-2000

Distance: 7.970 m

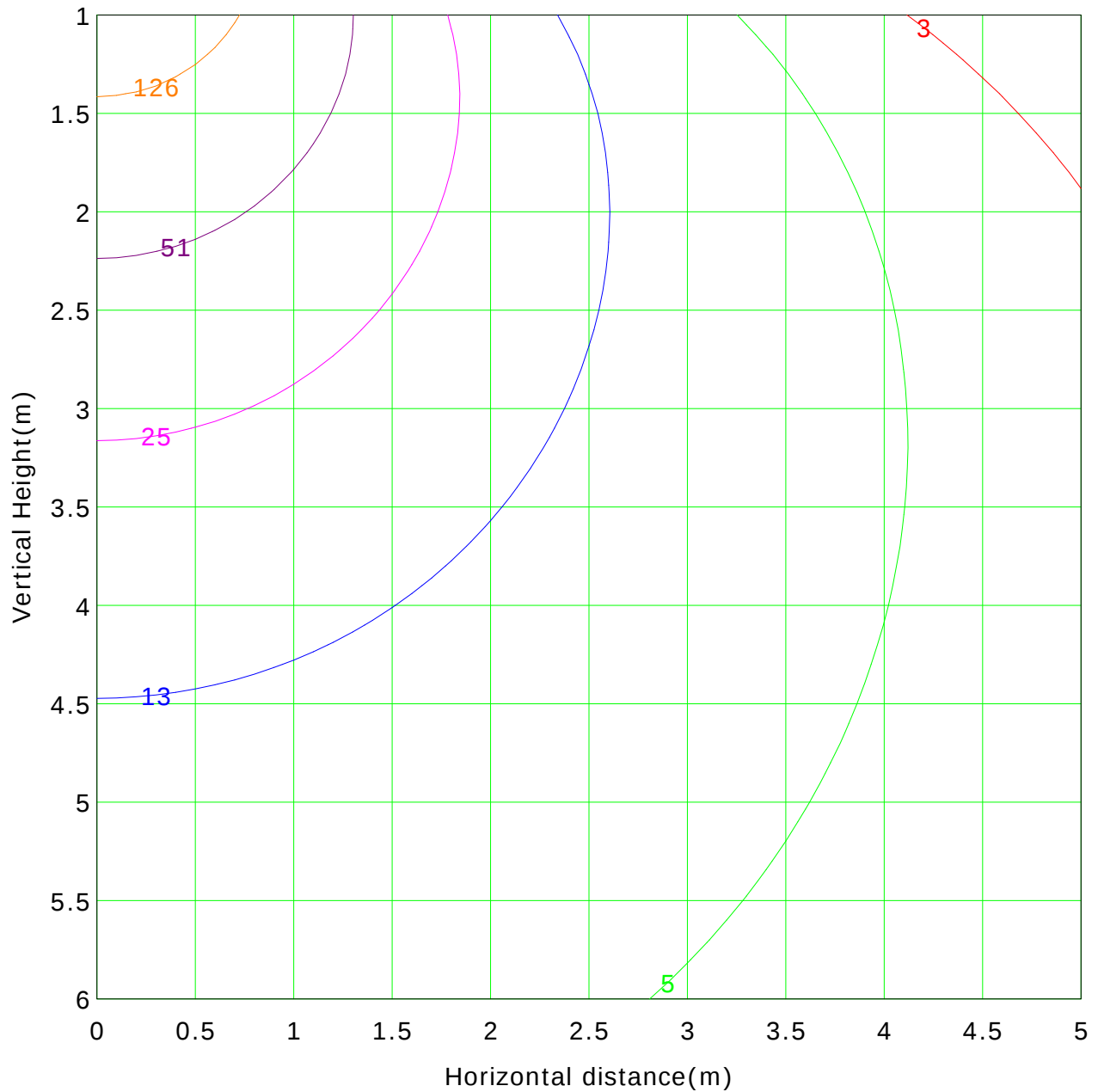
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 6.0m Max Lux: 252.7 lx

(1%): 2.5 lx	(2%): 5.1 lx
(5%): 12.6 lx	(10%): 25.3 lx
(20%): 50.5 lx	(50%): 126.3 lx
(100%): 252.7 lx	

Report No.:

Test Time: 21/09/2018 14:47

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-RE02-03 + LLD-03-XK3-L1

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1579 lm

Voltage: 24.0 V

Current: 0.592 A

Power: 14.20 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 1038.5 lm

Downward Ratio: 65.18%

Total Rated Lamp Lumens: 1579.0 lm

Efficiency: 65.77%

Upward Ratio: 0.59%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 136.3, 103.4, 108.7, 108.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 106.1, 18.3, 25.1, 25.3

Luminaire Efficacy Rating (LER): 73.19

Central Intensity: 1133.64 cd

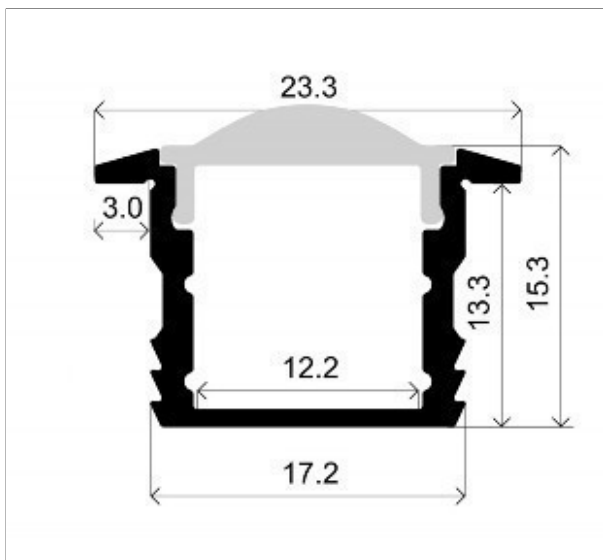
Max. Intensity: 1229.2 cd

Pos of Max. Intensity: H180 V32

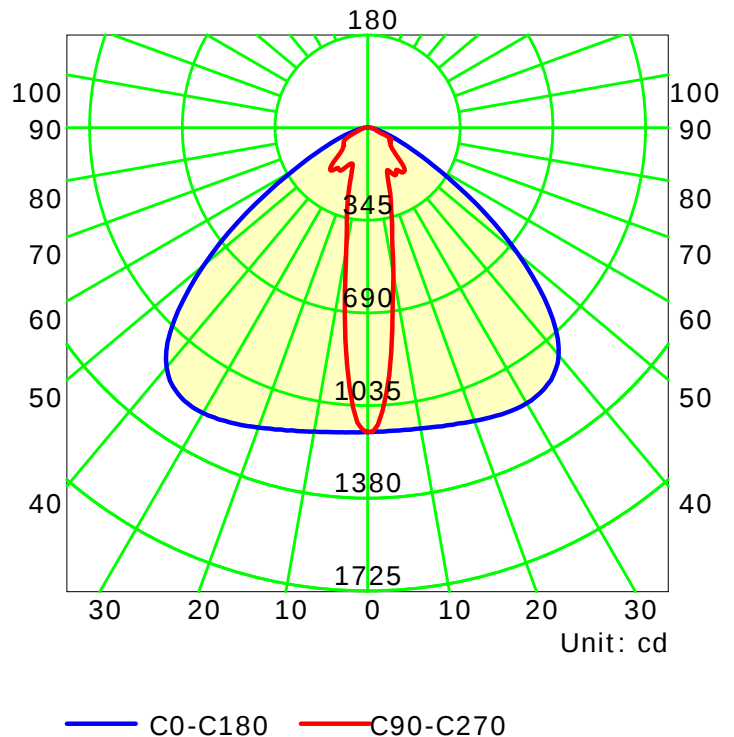
S/MH(C0/C180): 1.57

S/MH(C90/C270): 0.31

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

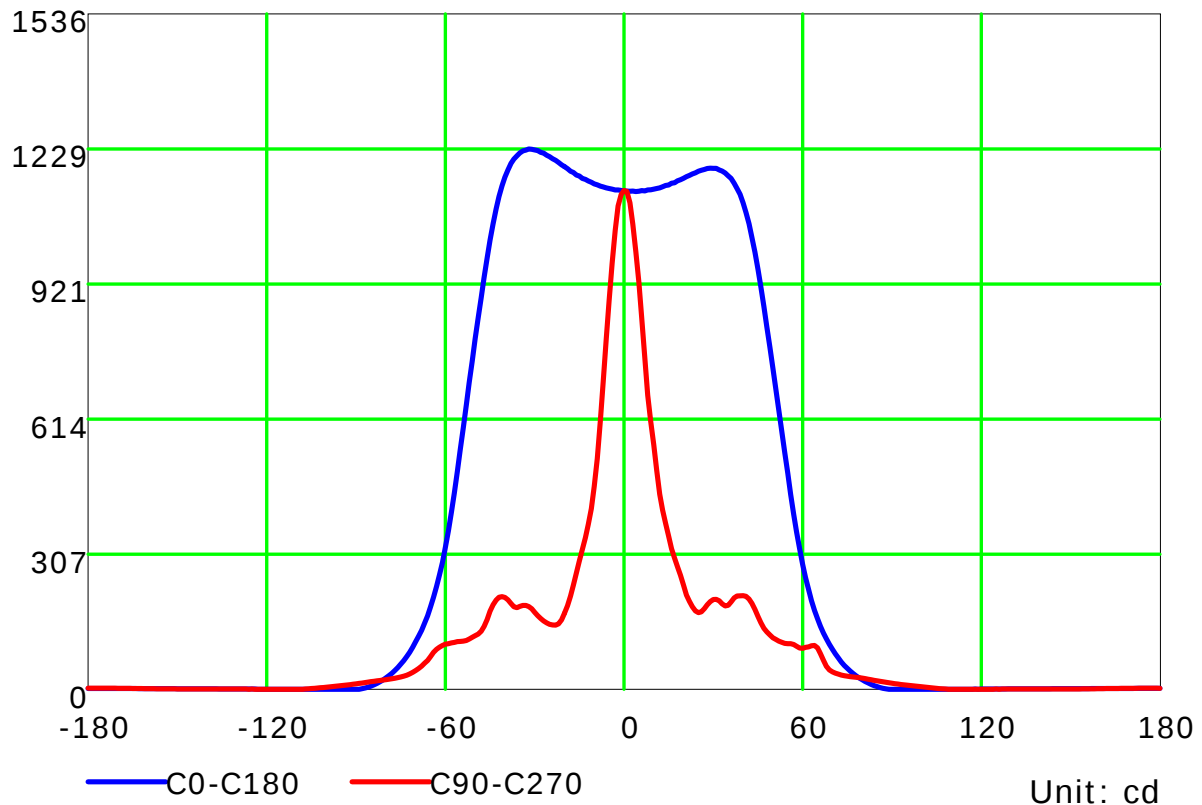
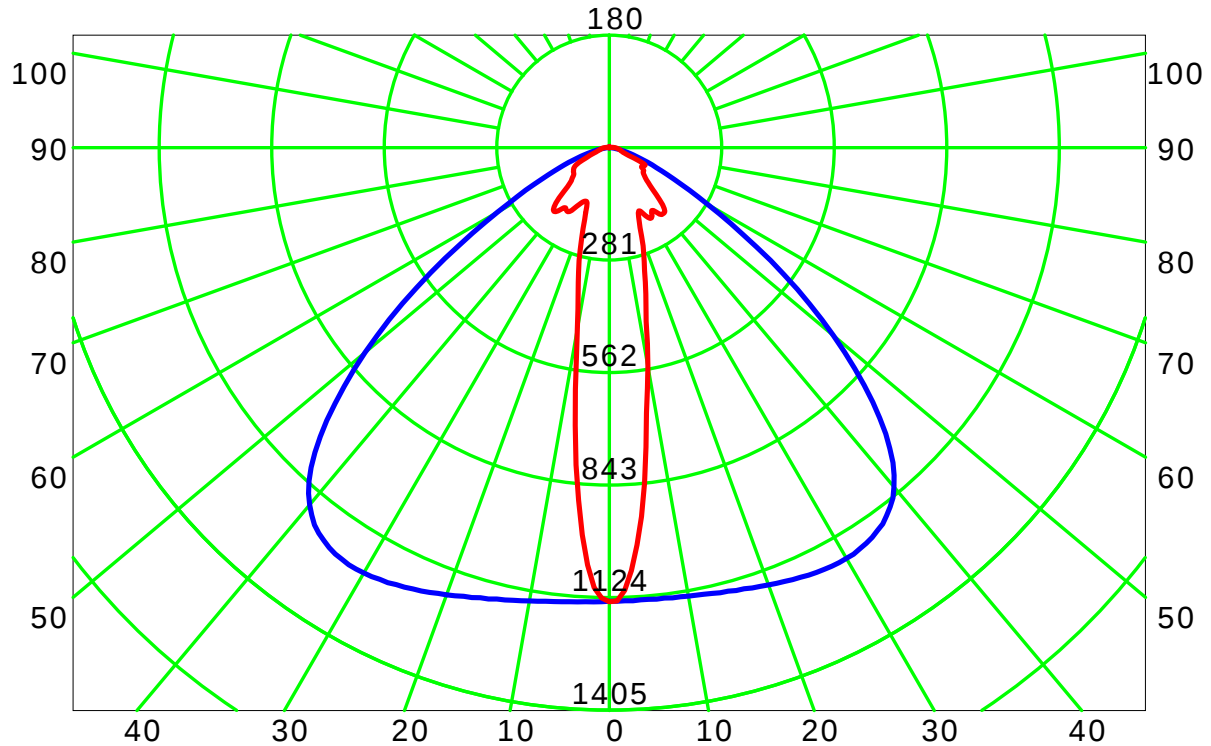
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

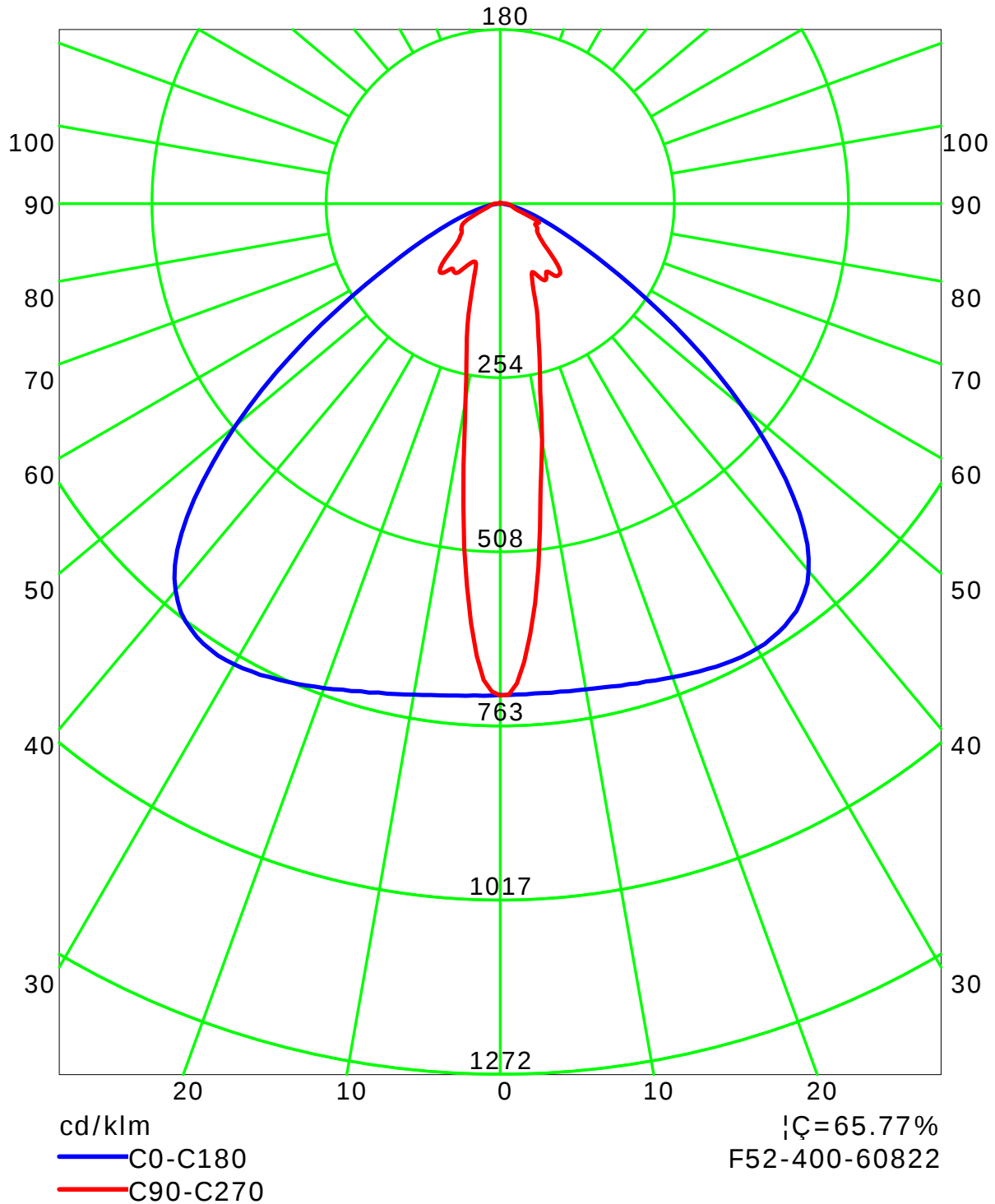
Luminous Intensity Distribution Curve



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:

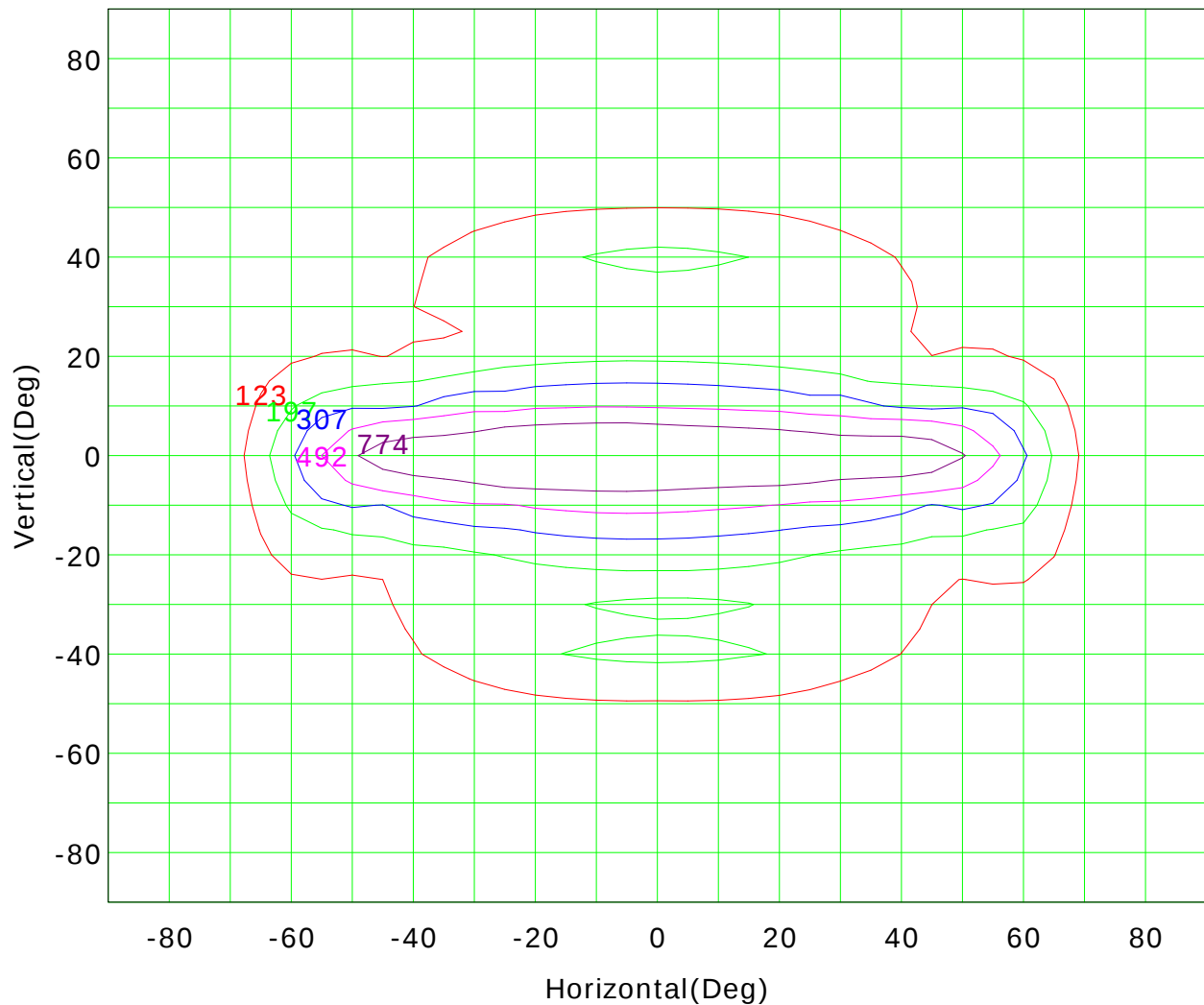
Luminous Intensity Distribution Curve(cd / klm)



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%): 1229 cd

(10%):	123 cd	(16%):	197 cd
(25%):	307 cd	(40%):	492 cd
(63%):	774 cd	(100%):	1229 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

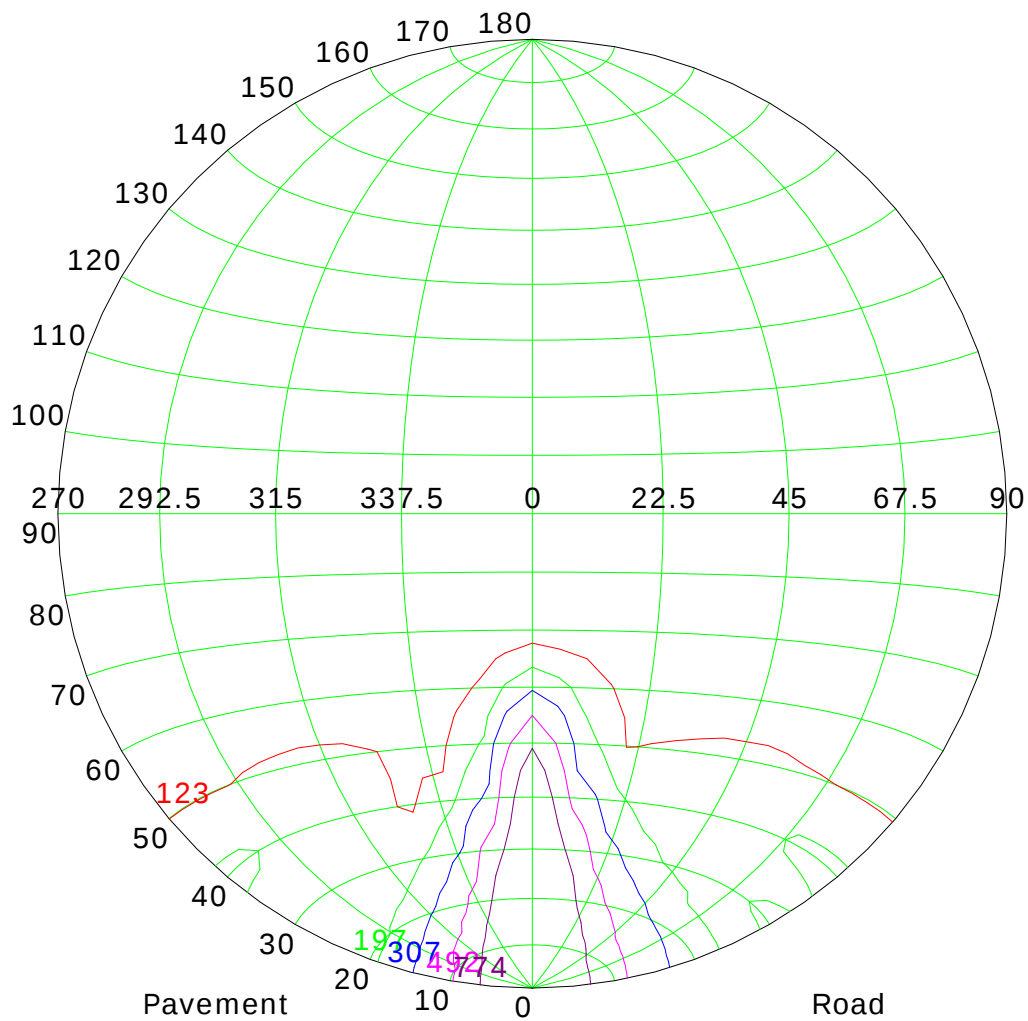
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 1229 cd

(10%): 123 cd	(16%): 197 cd
(25%): 307 cd	(40%): 492 cd
(63%): 774 cd	(100%): 1229 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

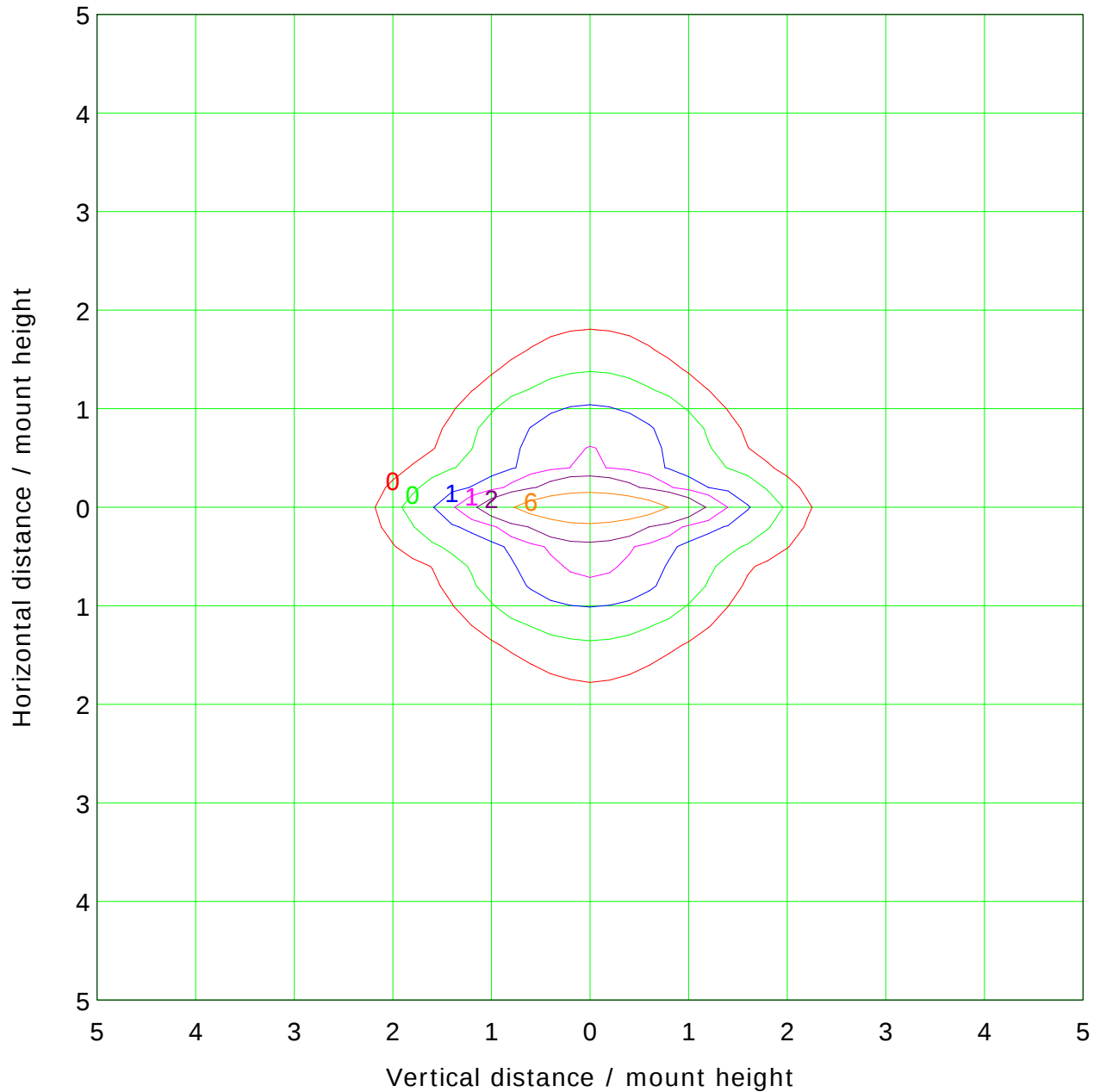
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 11.4 lx	
— (1%):	0.1 lx	— (2%):	0.2 lx
— (5%):	0.6 lx	— (10%):	1.1 lx
— (20%):	2.3 lx	— (50%):	5.7 lx
— (100%):	11.4 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

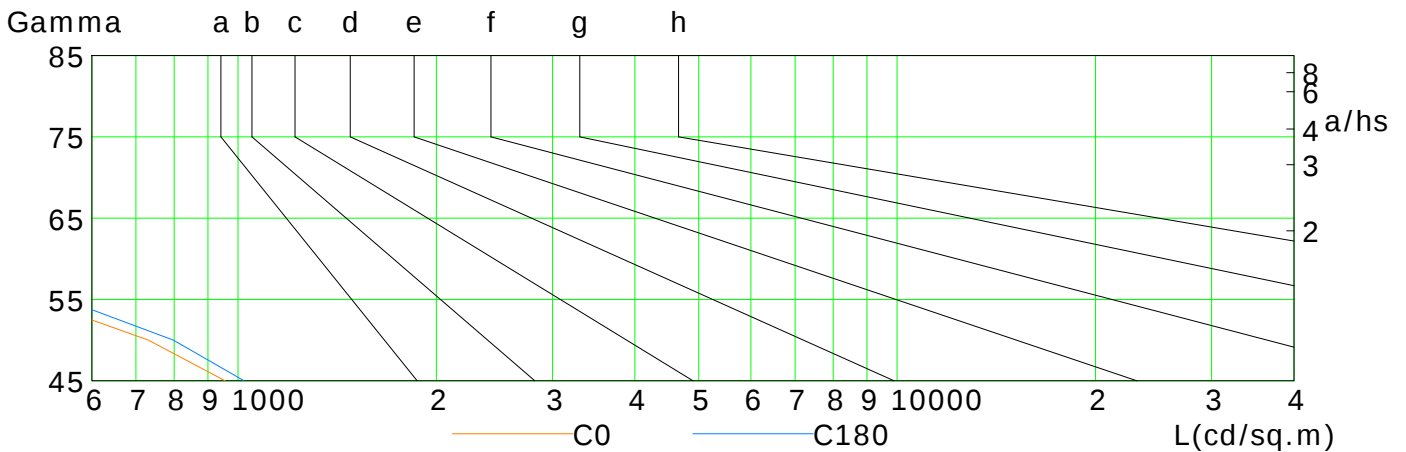
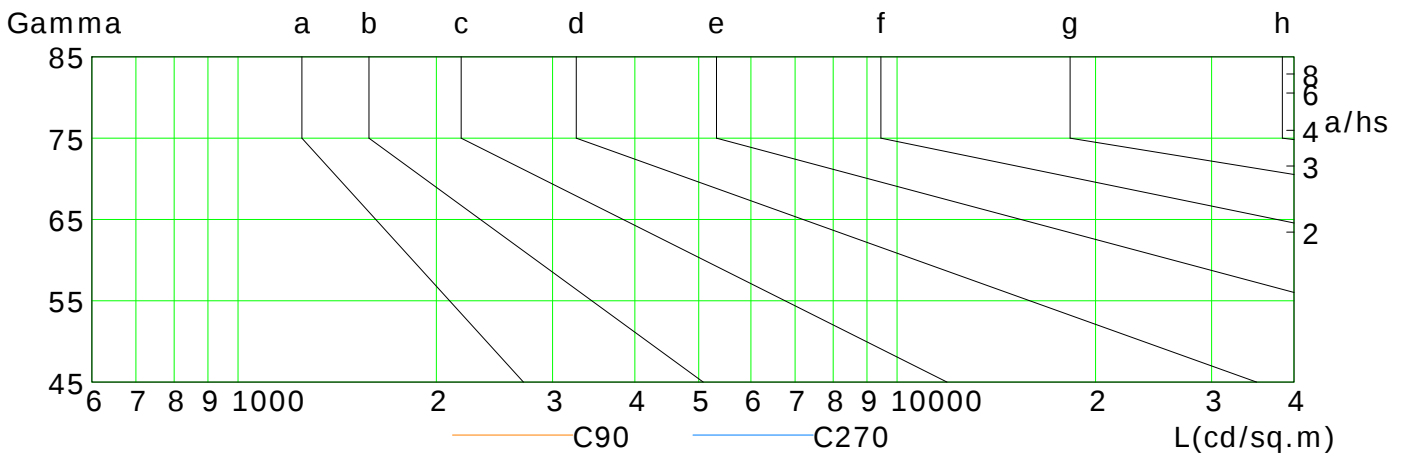
Humidity:

Inspector:

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	956	731	492	284	161	91	48	22	6
C90	166	118	104	93	94	40	30	26	19
C180	1022	798	546	323	187	109	57	26	8
C270	178	122	109	103	74	43	28	22	18

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

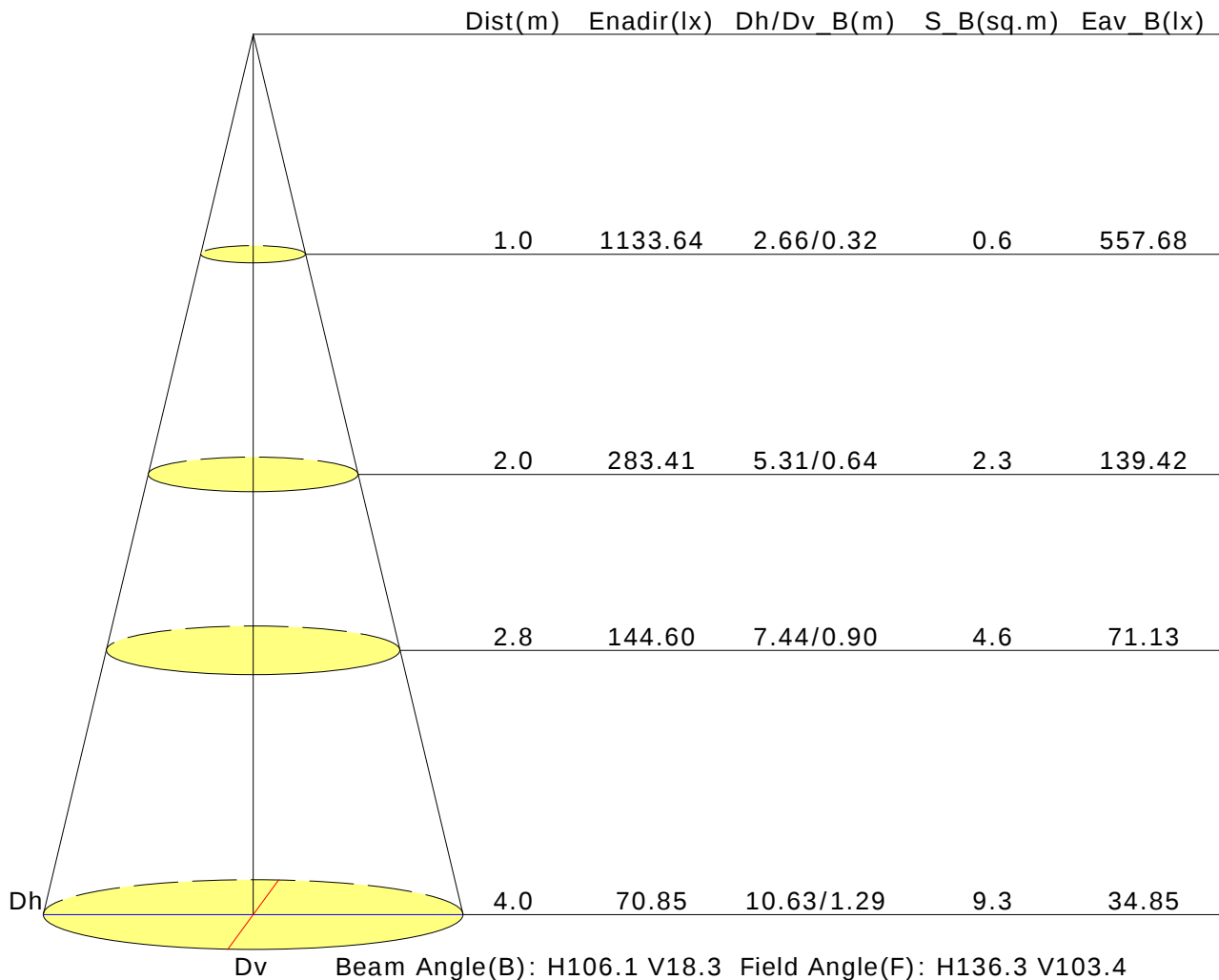
Test Device: GPM-2000

Distance: 7.970 m

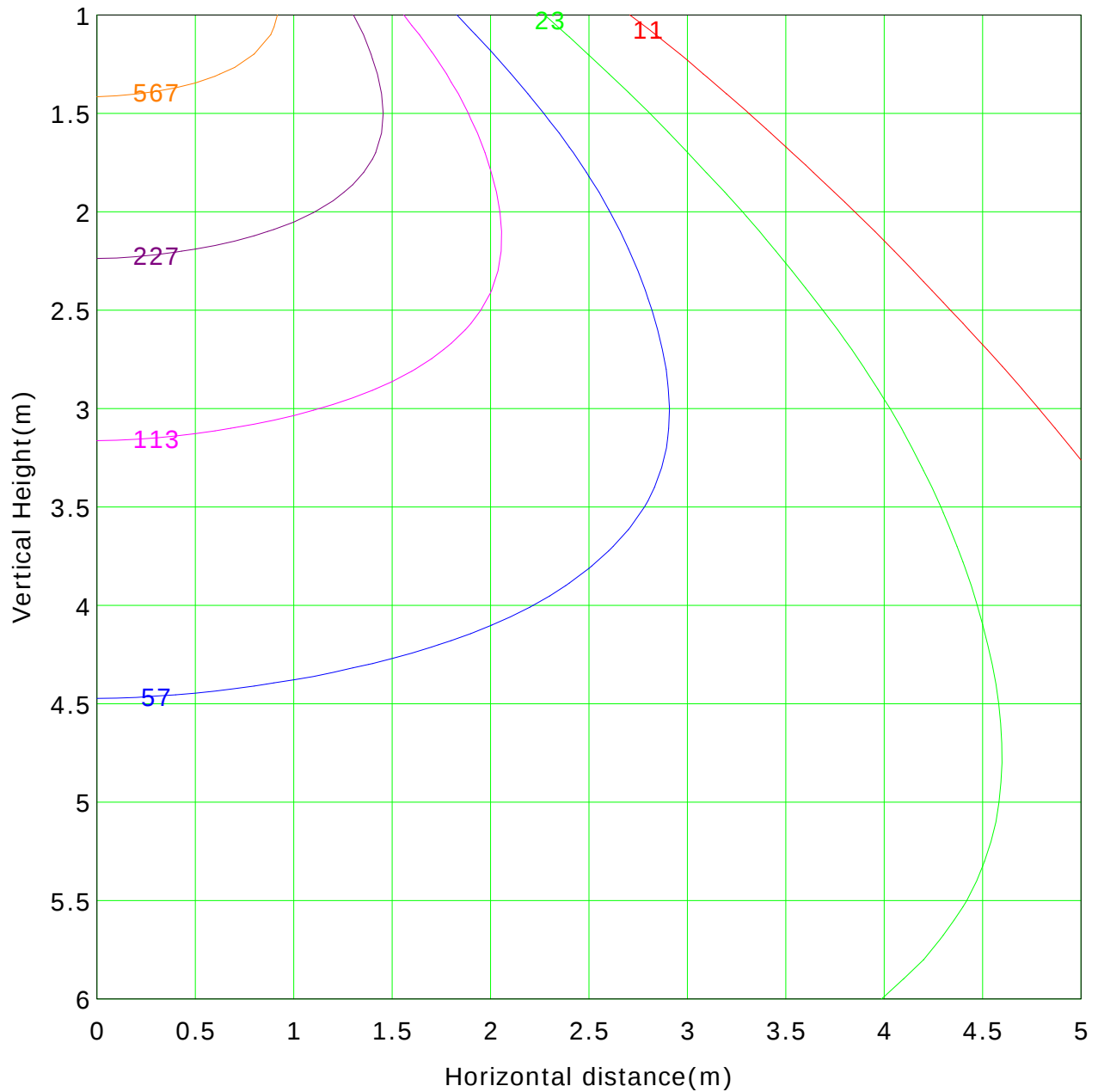
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 6.0m Max Lux: 1133.6 lx

(1%): 11.3 lx	(2%): 22.7 lx
(5%): 56.7 lx	(10%): 113.4 lx
(20%): 226.7 lx	(50%): 566.8 lx
(100%):1133.6 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:

Report No.:

Test Time: 18/11/2020 16:58

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-RE02-03 + LLD-03-FB

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1579 lm

Voltage: 24.0 V

Current: 0.600 A

Power: 14.38 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 181 lm

Downward Ratio: 11.44%

Total Rated Lamp Lumens: 1579.0 lm

Efficiency: 11.46%

Upward Ratio: 0.02%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 149.2, 146.2, 147.6, 147.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 88.1, 81.3, 84.4, 84.5

Luminaire Efficacy Rating (LER): 12.64

Central Intensity: 88.93 cd

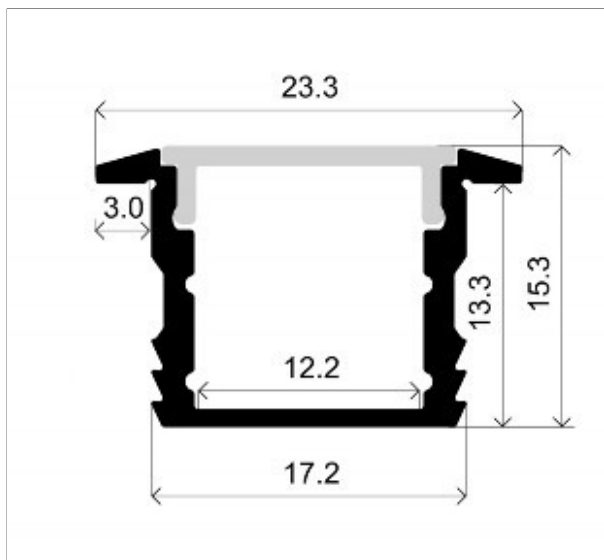
Max. Intensity: 88.94 cd

Pos of Max. Intensity: H0 V0

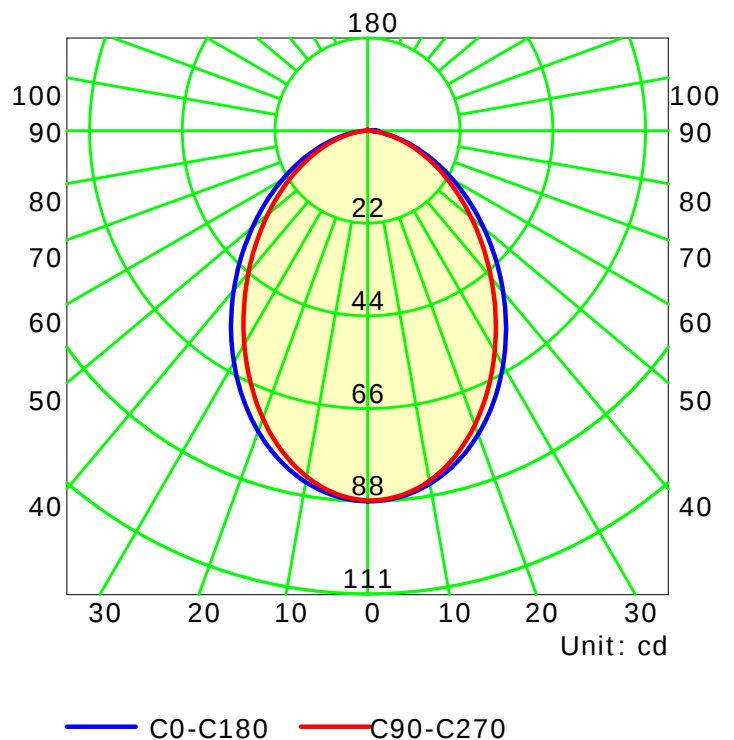
S/MH(C0/C180): 1.10

S/MH(C90/C270): 1.05

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

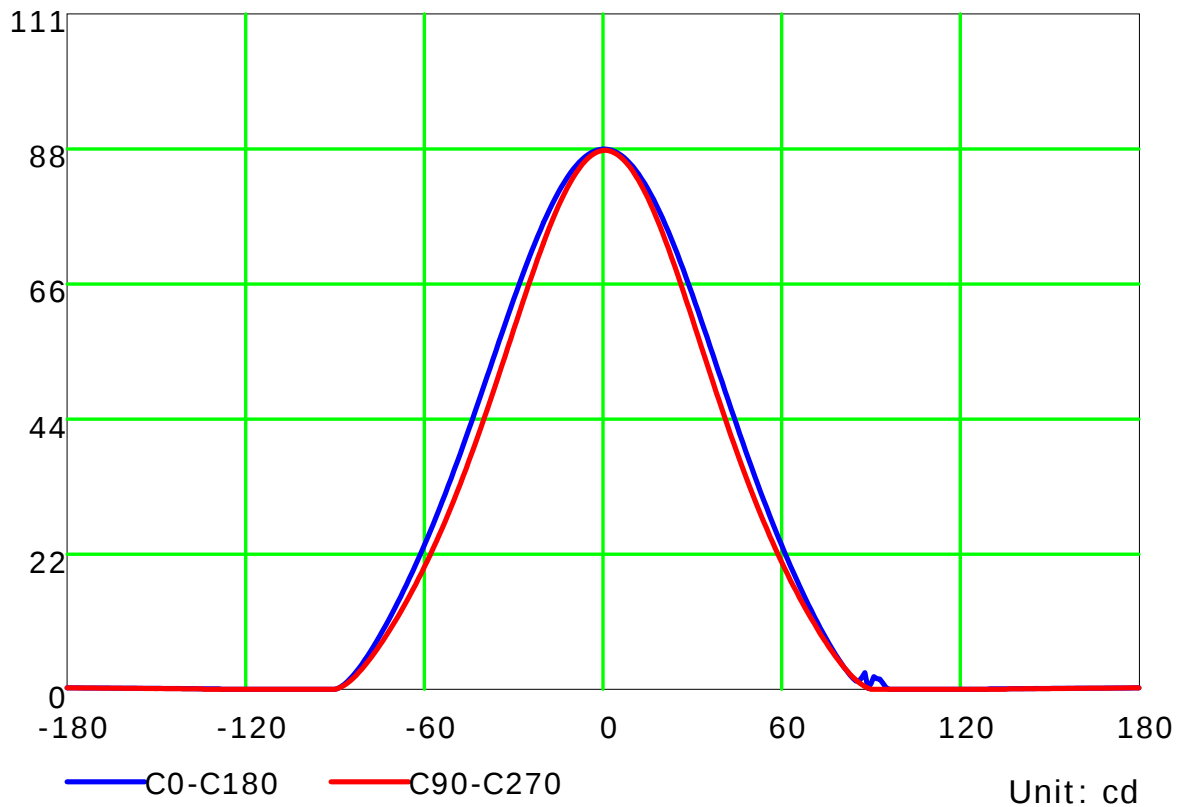
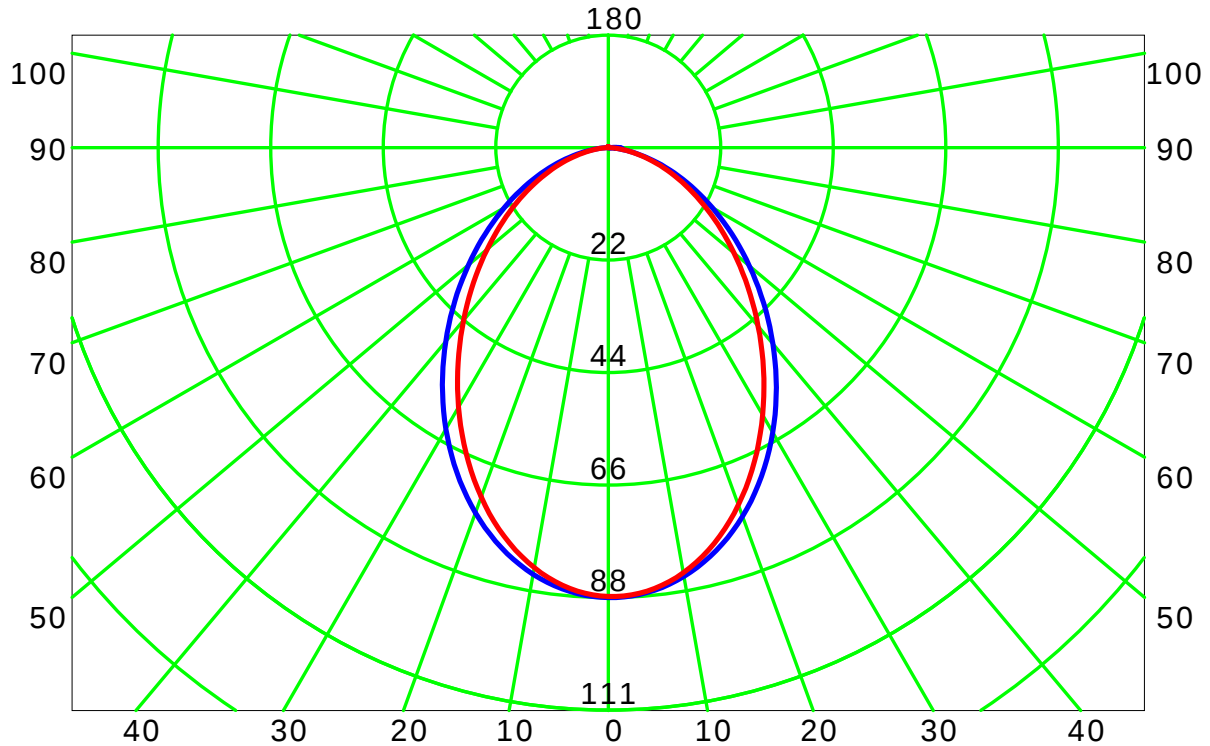
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

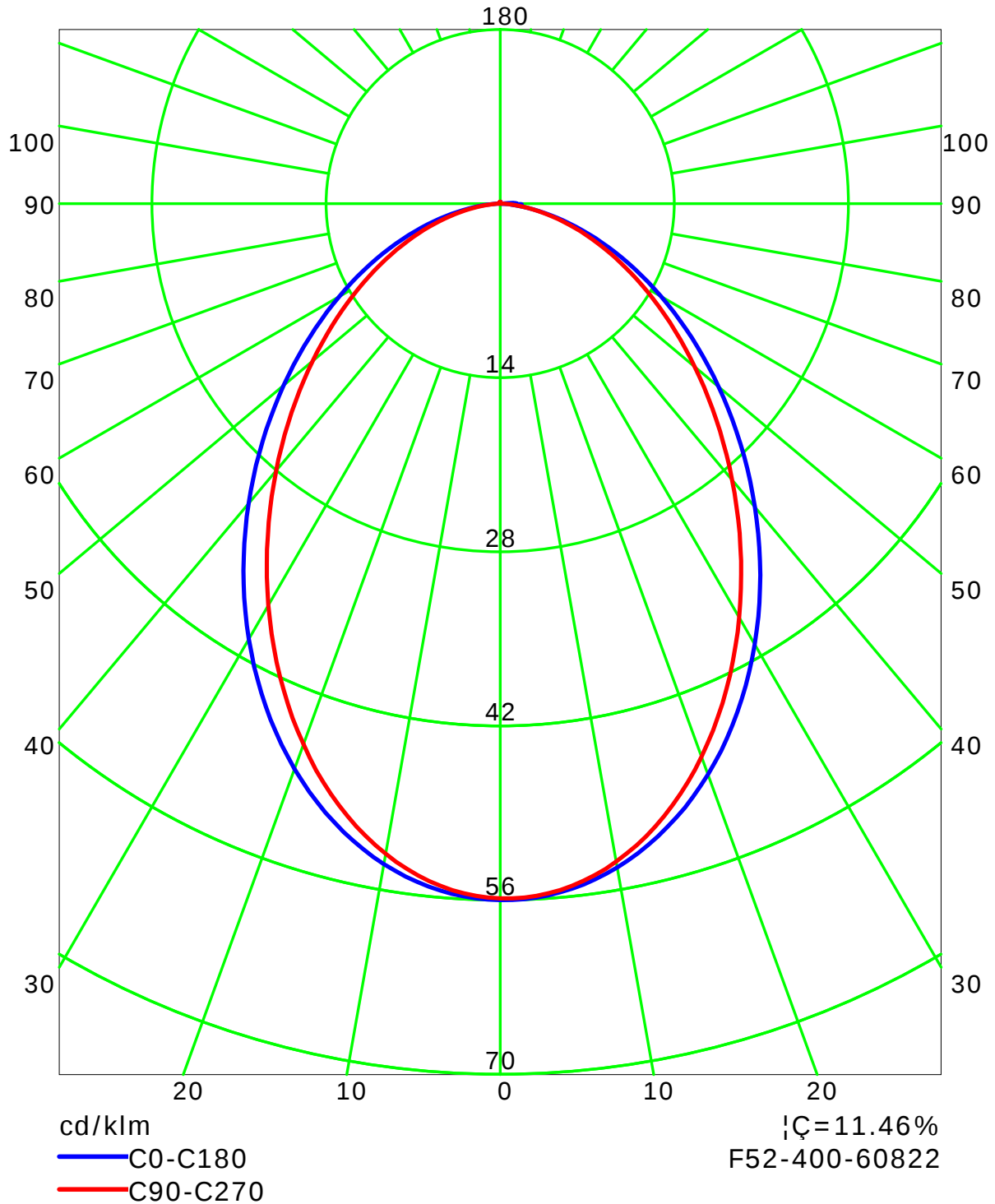
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

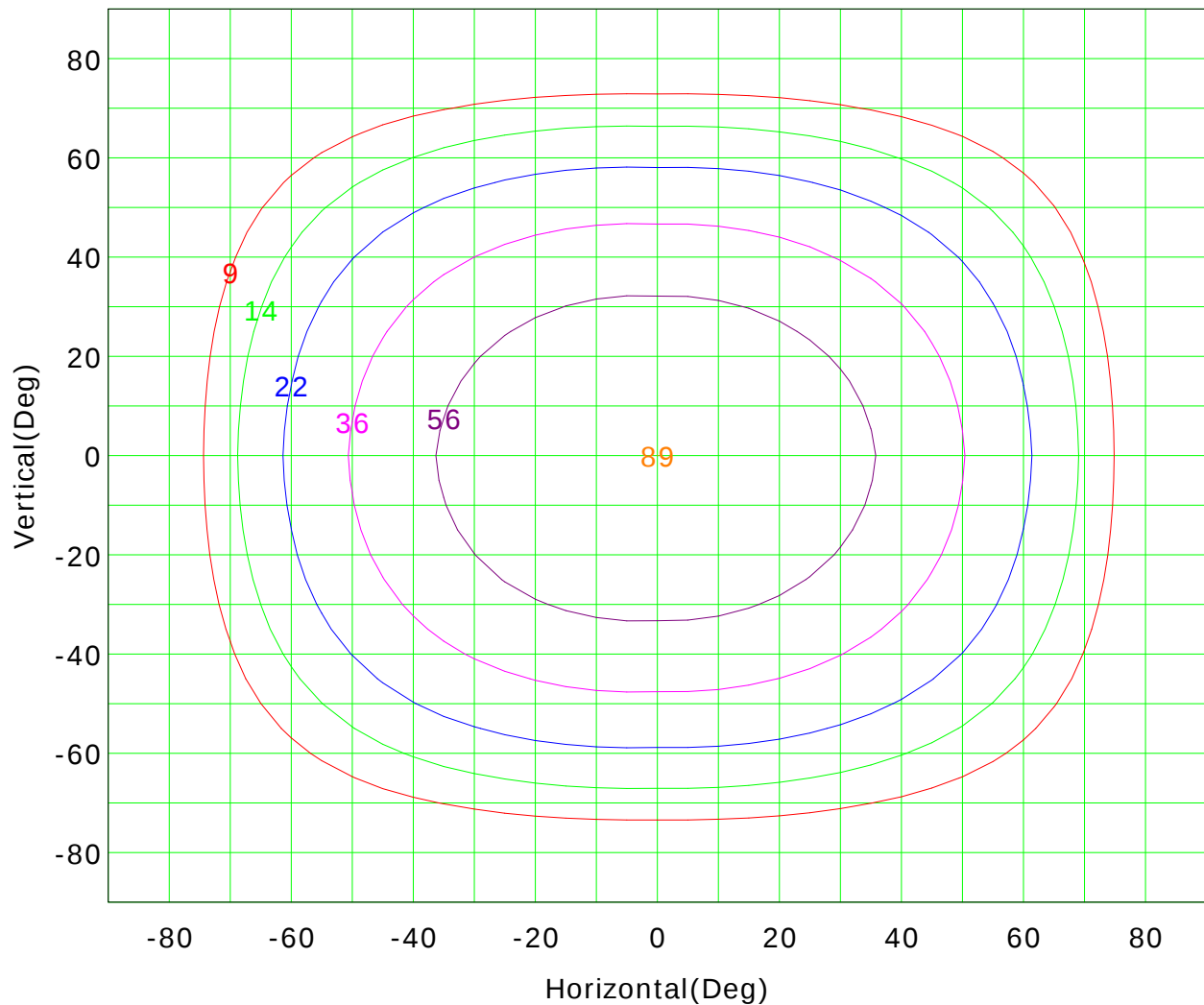
Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:

Isocandela (rectangle)



I_{max} (100%): 89 cd

(10%):	9 cd	(16%):	14 cd
(25%):	22 cd	(40%):	36 cd
(63%):	56 cd	(100%):	89 cd

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

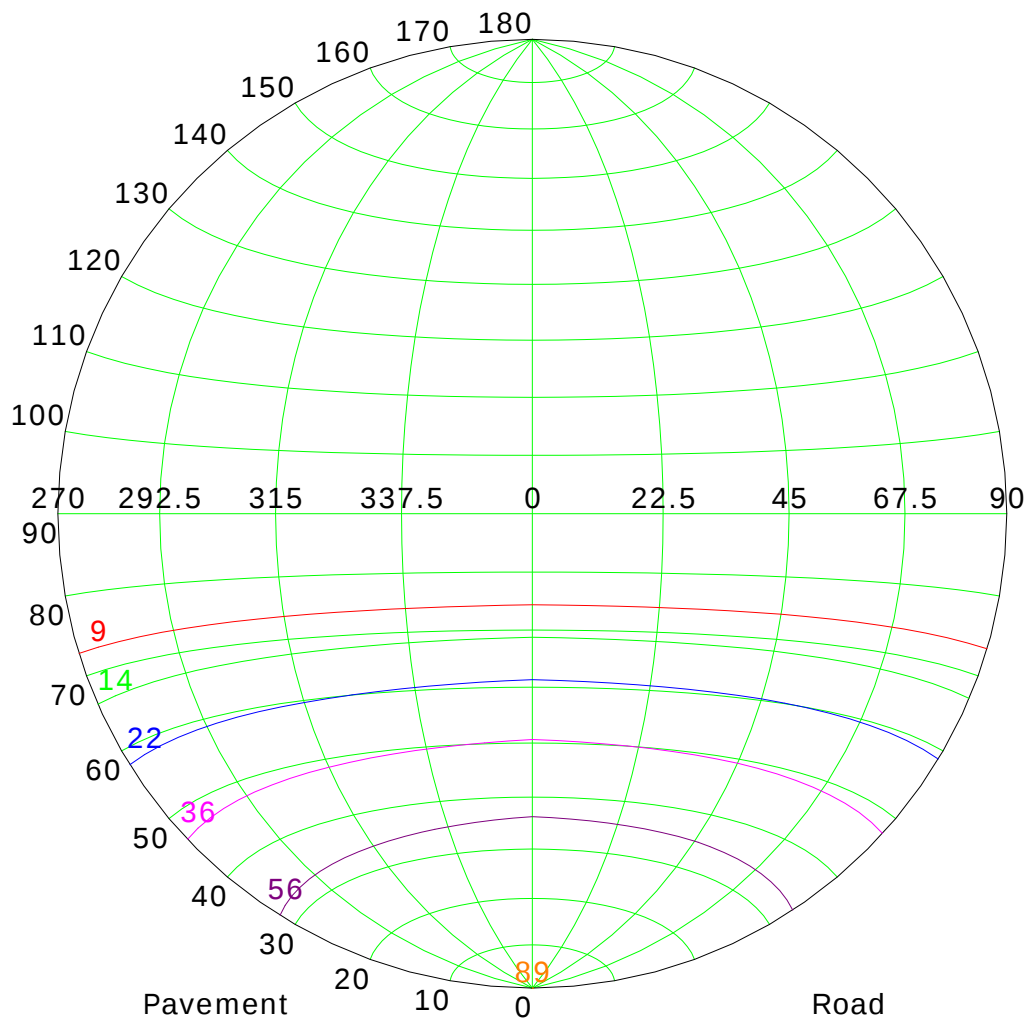
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 89 cd

(10%):	9 cd	(16%):	14 cd
(25%):	22 cd	(40%):	36 cd
(63%):	56 cd	(100%):	89 cd

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

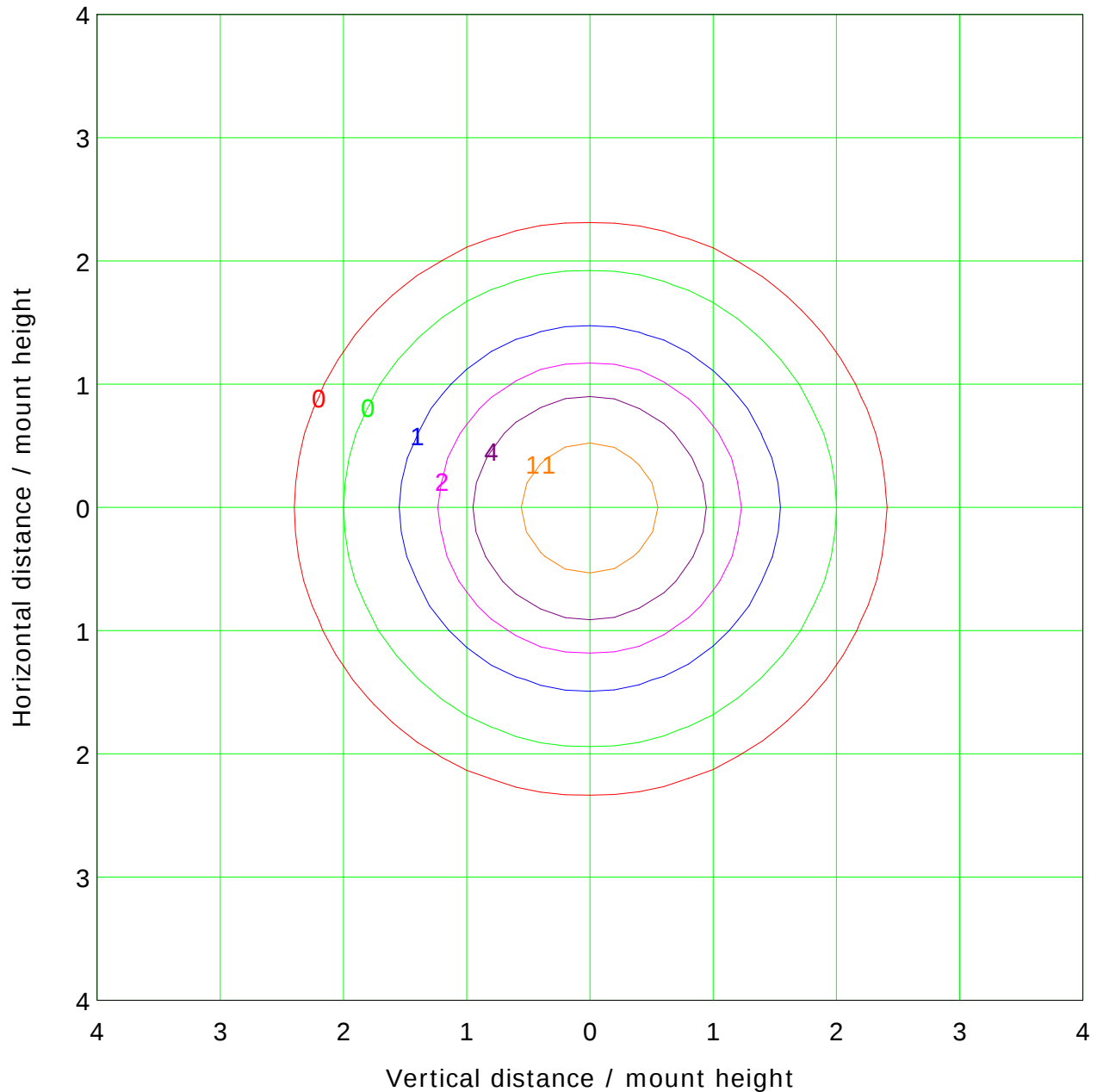
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 22.2 lx	
— (1%):	0.2 lx	— (2%):	0.4 lx
— (5%):	1.1 lx	— (10%):	2.2 lx
— (20%):	4.4 lx	— (50%):	11.1 lx
— (100%):	22.2 lx		

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 7.979 m

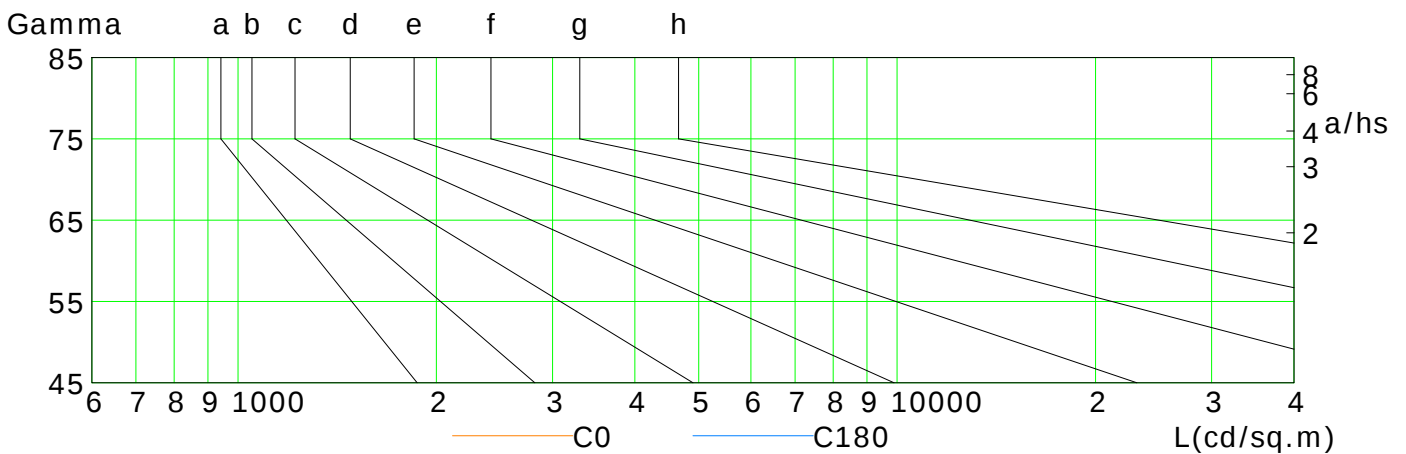
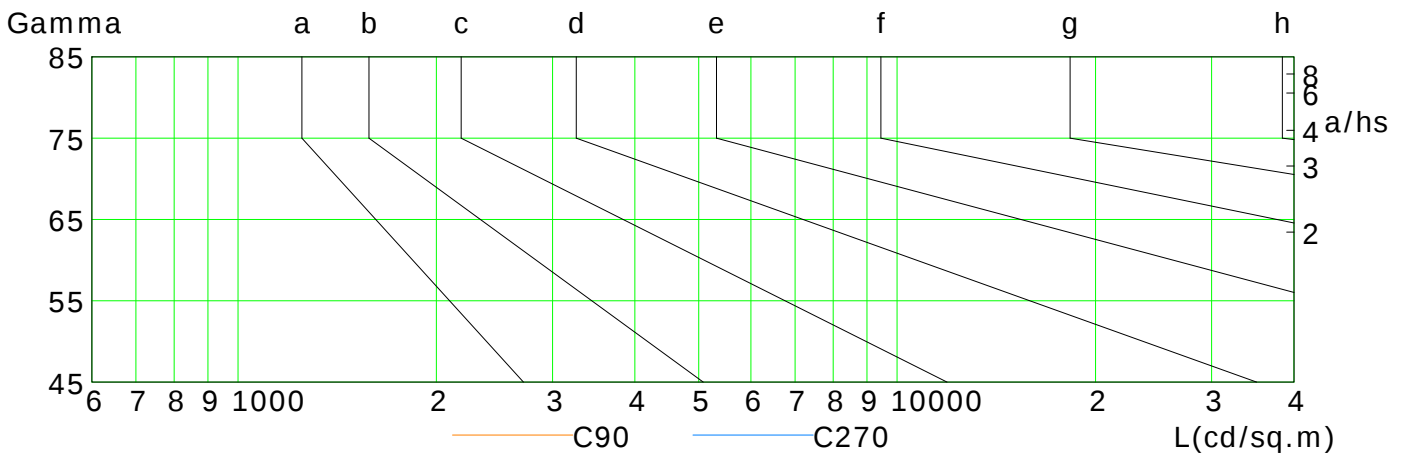
Humidity:

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	43	36	30	24	18	13	8	4	1
C90	39	32	26	21	16	12	8	4	2
C180	43	36	30	24	18	13	9	5	2
C270	38	31	25	20	15	11	7	4	1

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

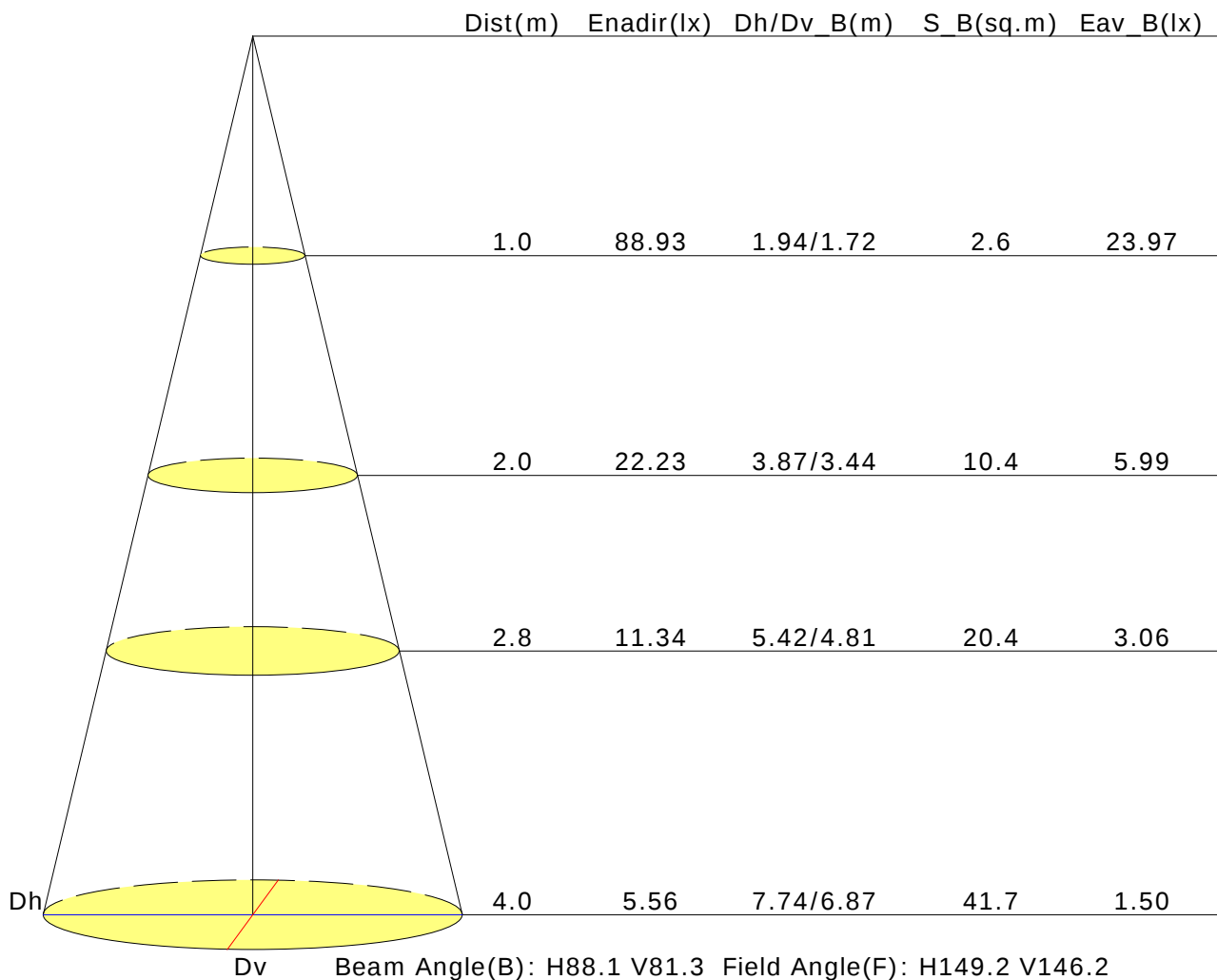
Test Device: GPM-1800B

Distance: 7.979 m

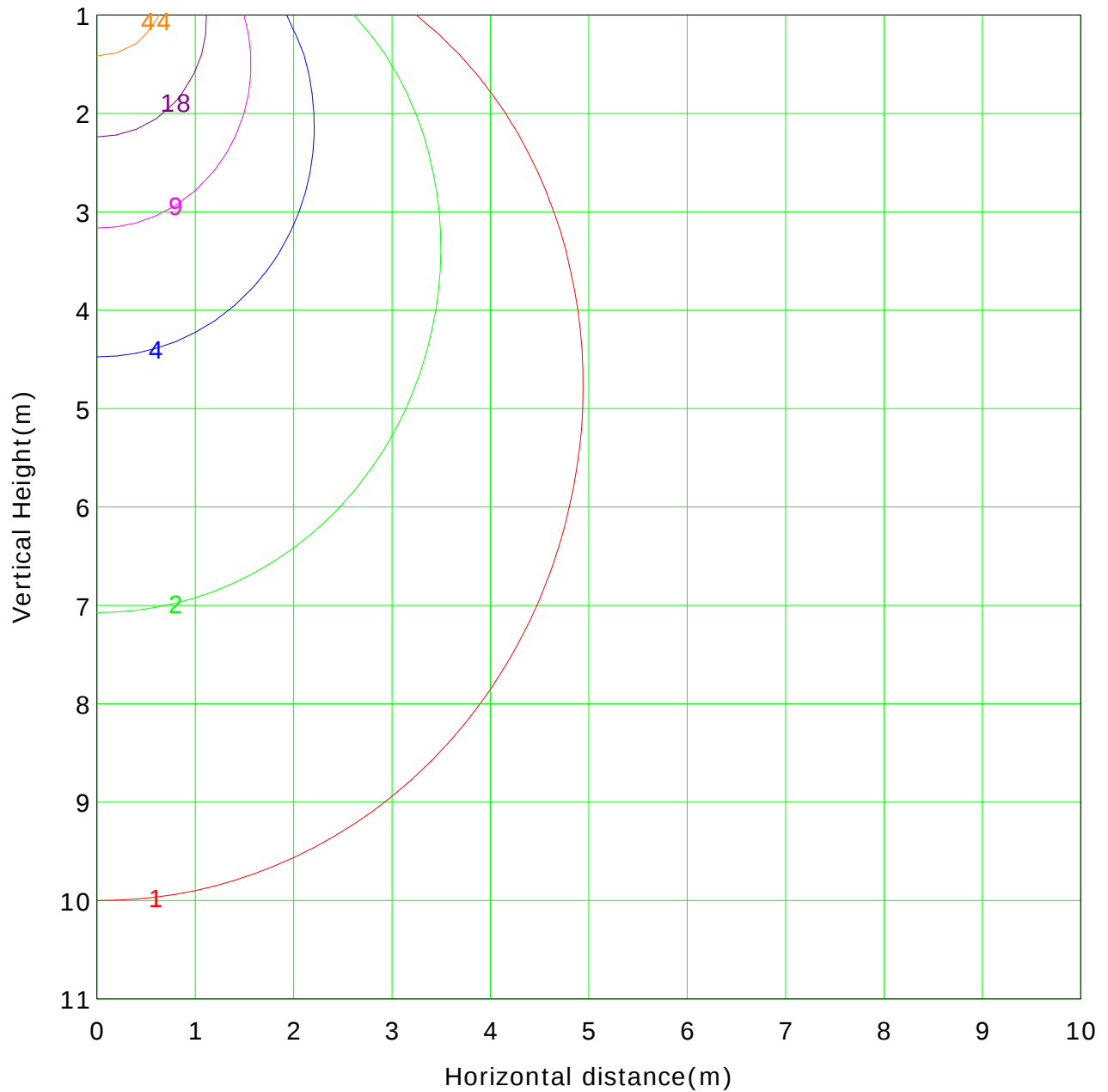
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 88.9 lx

(1%): 0.9 lx	(2%): 1.8 lx
(5%): 4.4 lx	(10%): 8.9 lx
(20%): 17.8 lx	(50%): 44.5 lx
(100%): 88.9 lx	