

Report No.:

Test Time: 09/10/2024 12:49

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-SL17-03+LLP-03-FK

Lamp Description: F52-40s-120DF2 95cm

Number of Lamps: 1

Lumens per Lamp: 839

Voltage: 24.0 V

Current: 0.346 A

Power: 8.29 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 815.9 lm

Downward Ratio: 97.25%

Total Rated Lamp Lumens: 839.0 lm

Efficiency: 97.25%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.5, 135.1, 136.4, 136.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.3, 102.6, 111.9, 112.0

Luminaire Efficacy Rating (LER): 98.47

Central Intensity: 323.46 cd

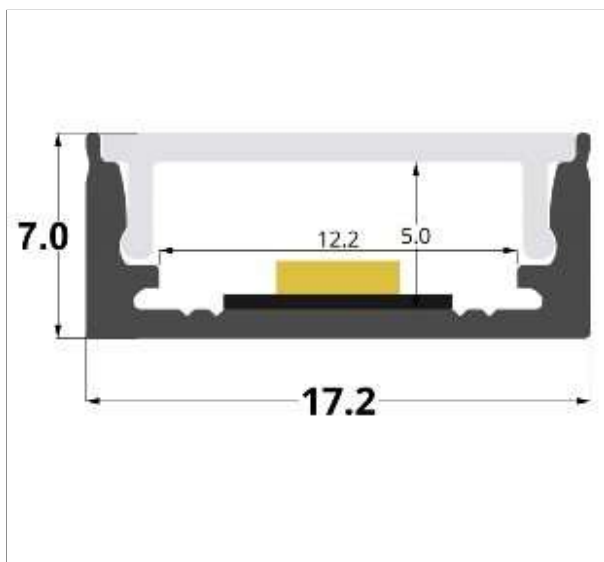
Max. Intensity: 324.27 cd

Pos of Max. Intensity: H90 V2

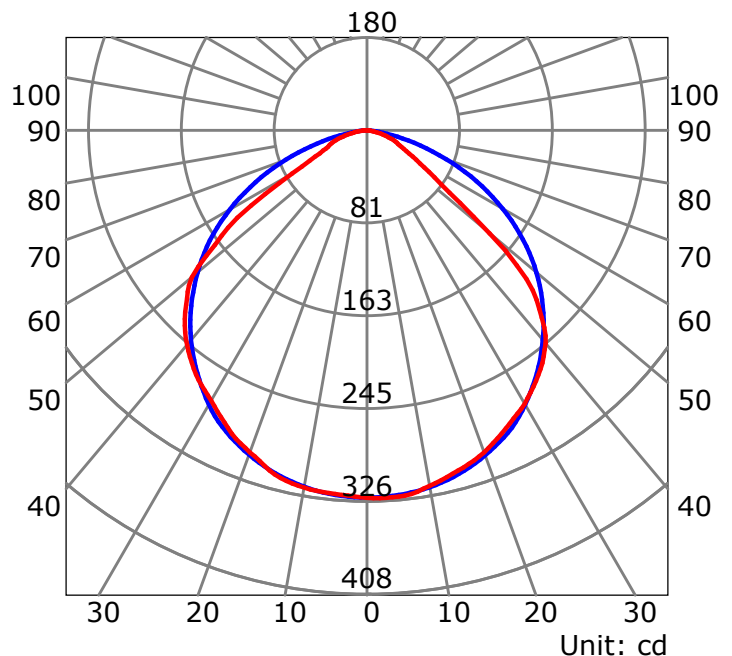
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.27

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

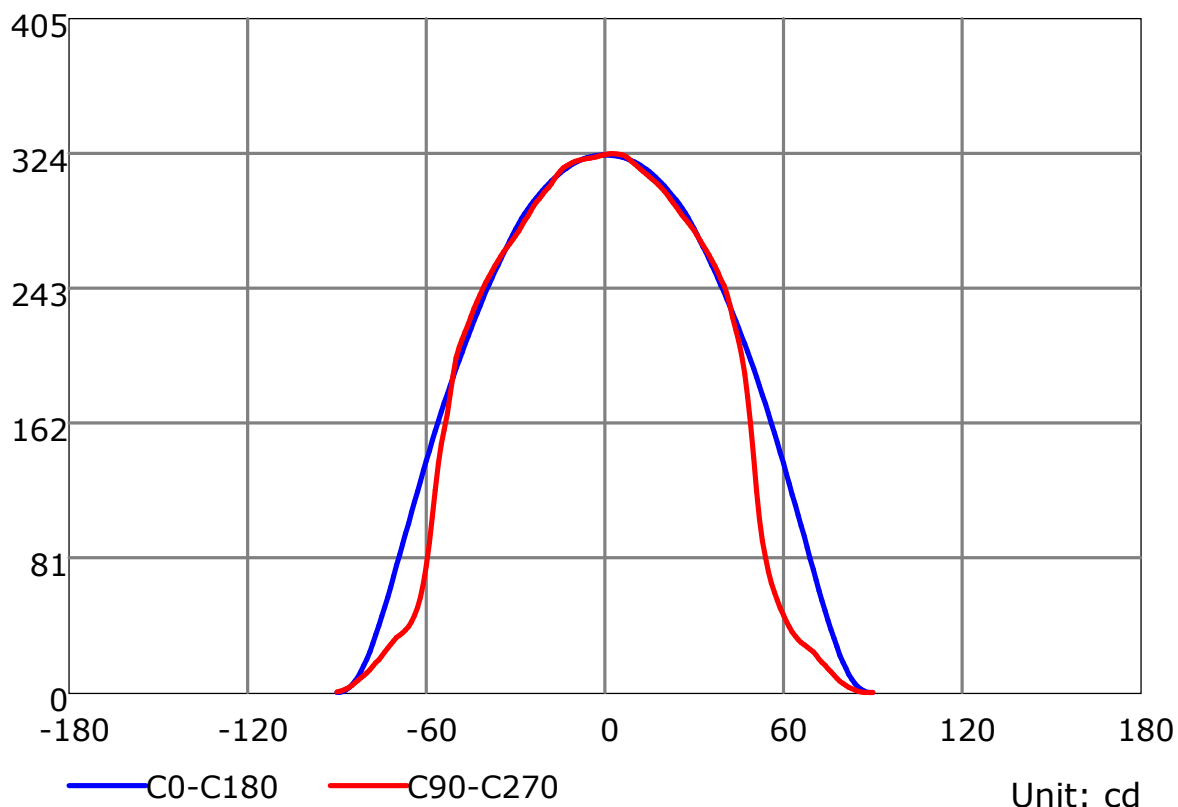
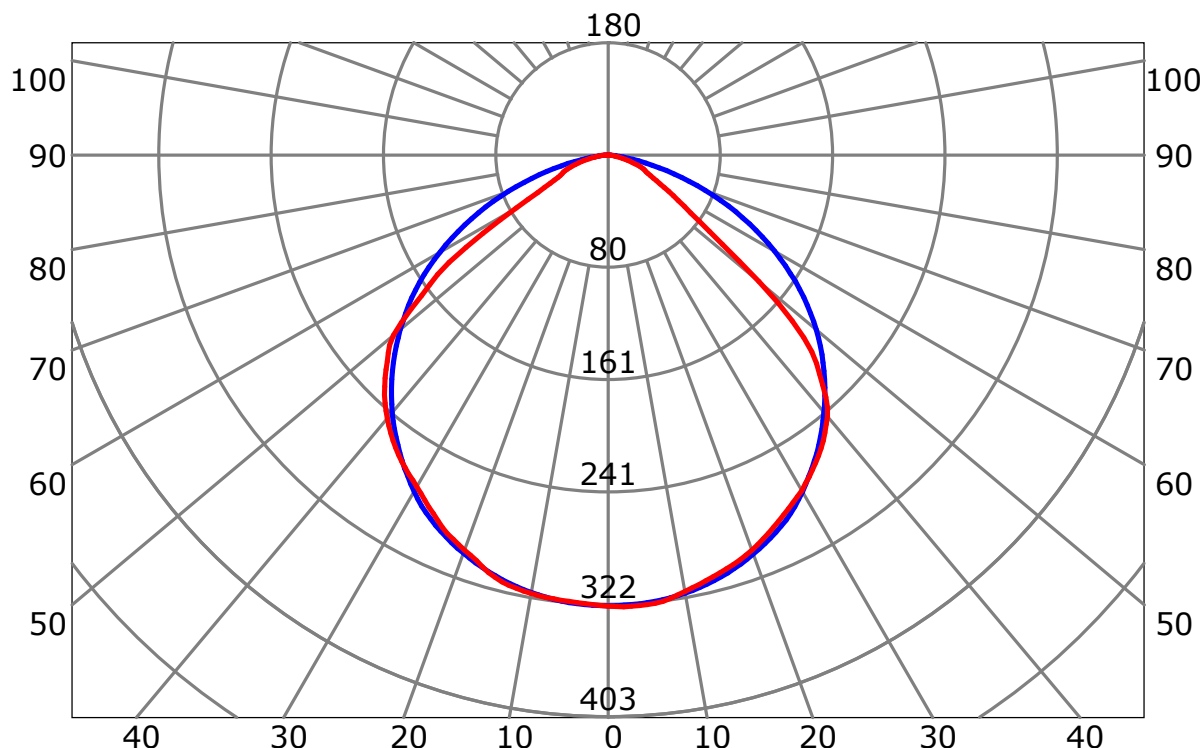
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

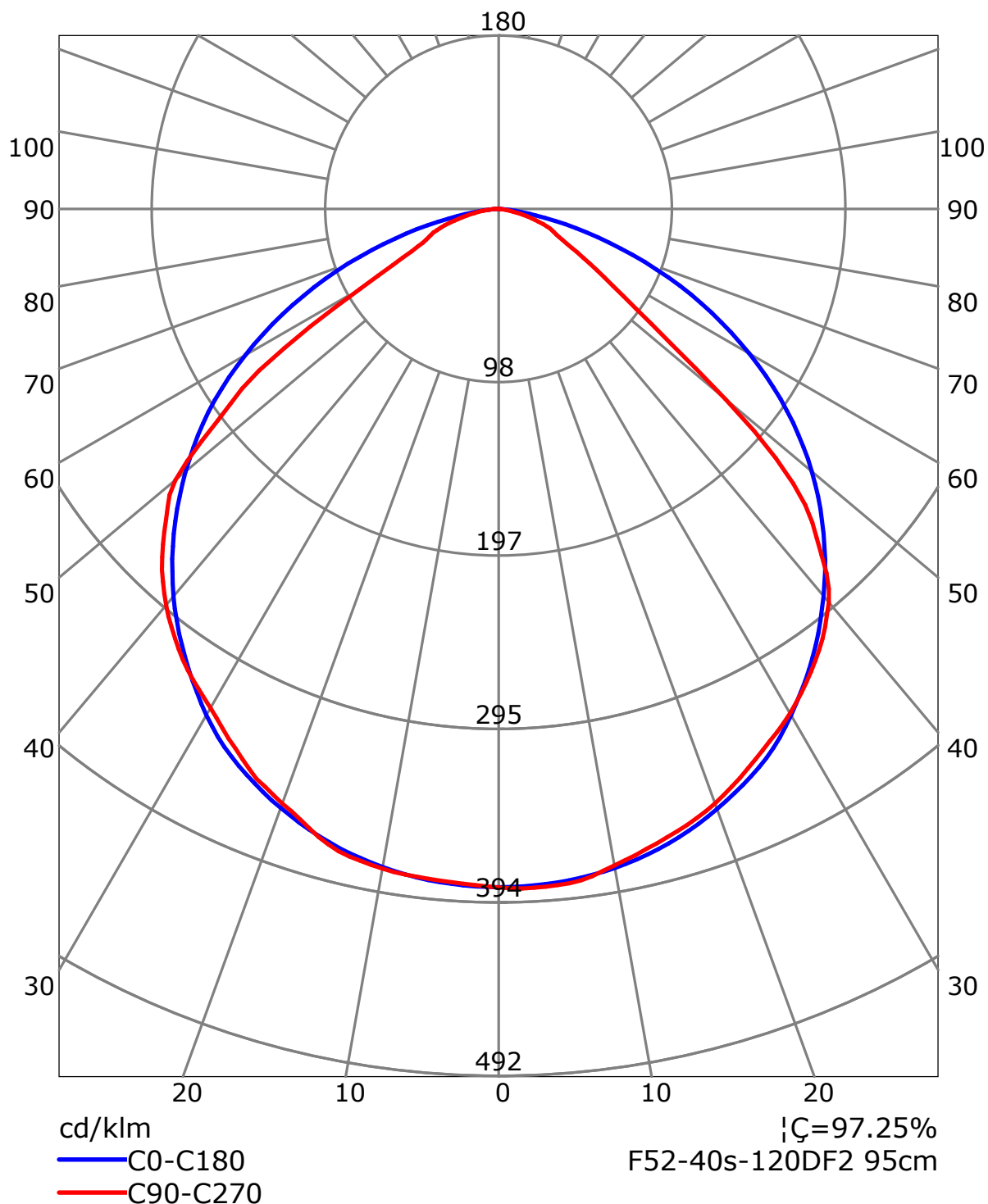
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

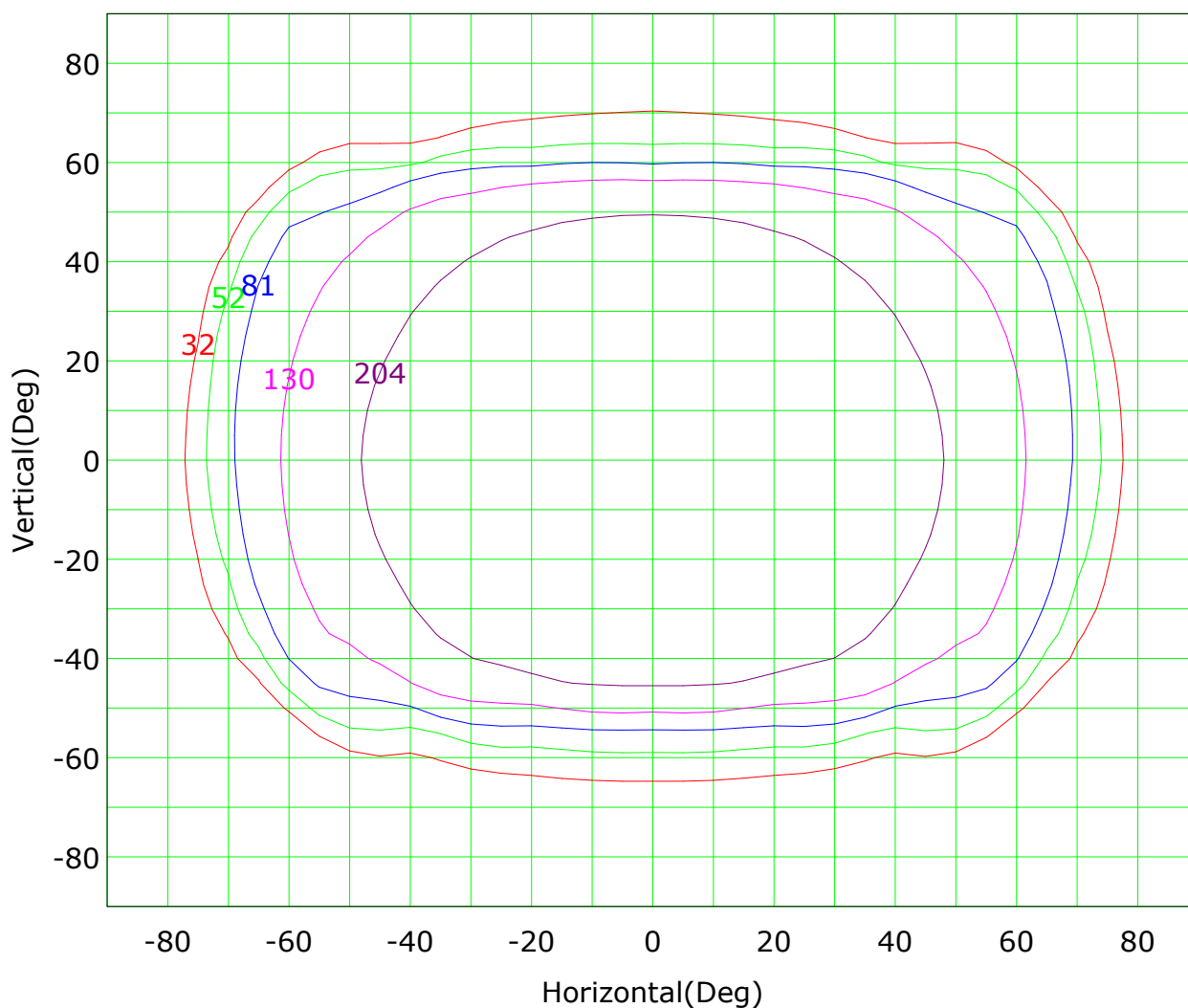
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 324 cd

(10%):	32 cd	(16%):	52 cd
(25%):	81 cd	(40%):	130 cd
(63%):	204 cd	(100%):	324 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

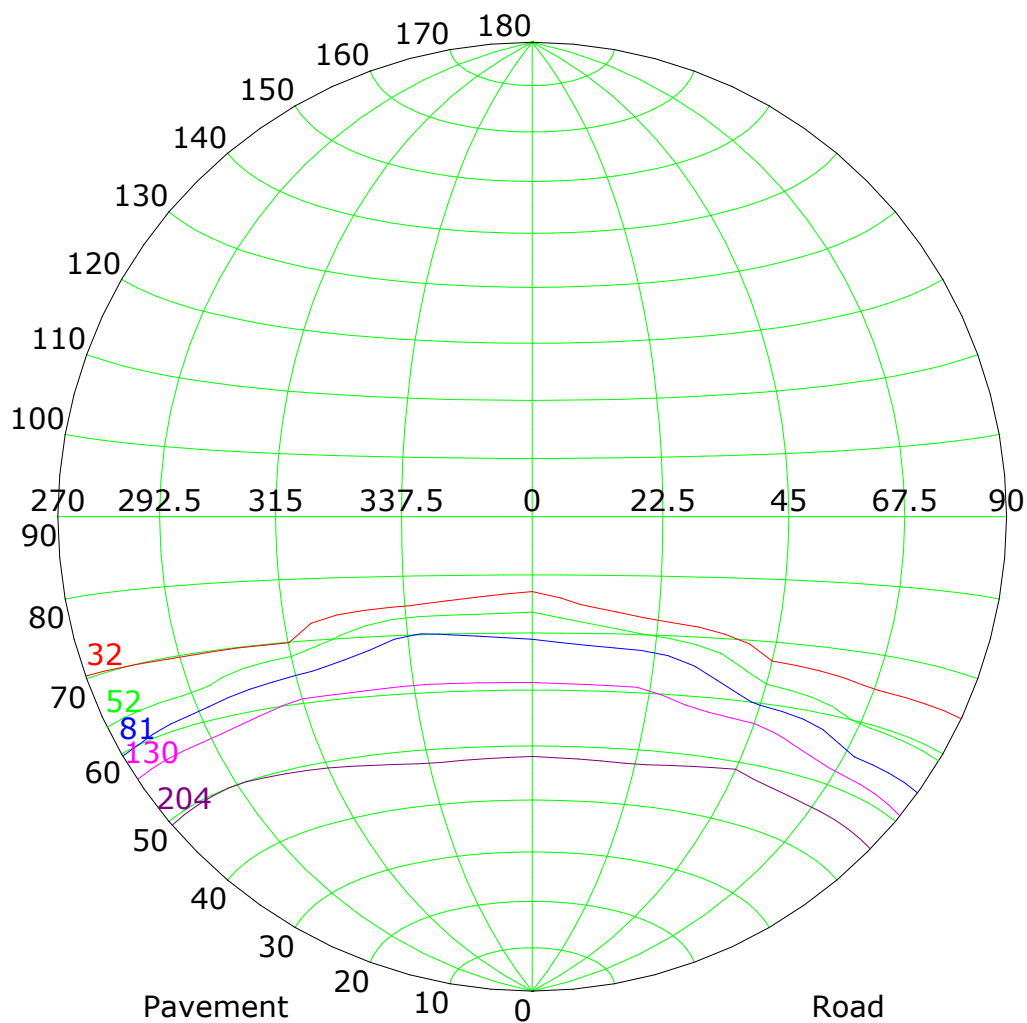
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 324 cd

(10%):	32 cd	(16%):	52 cd
(25%):	81 cd	(40%):	130 cd
(63%):	204 cd	(100%):	324 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

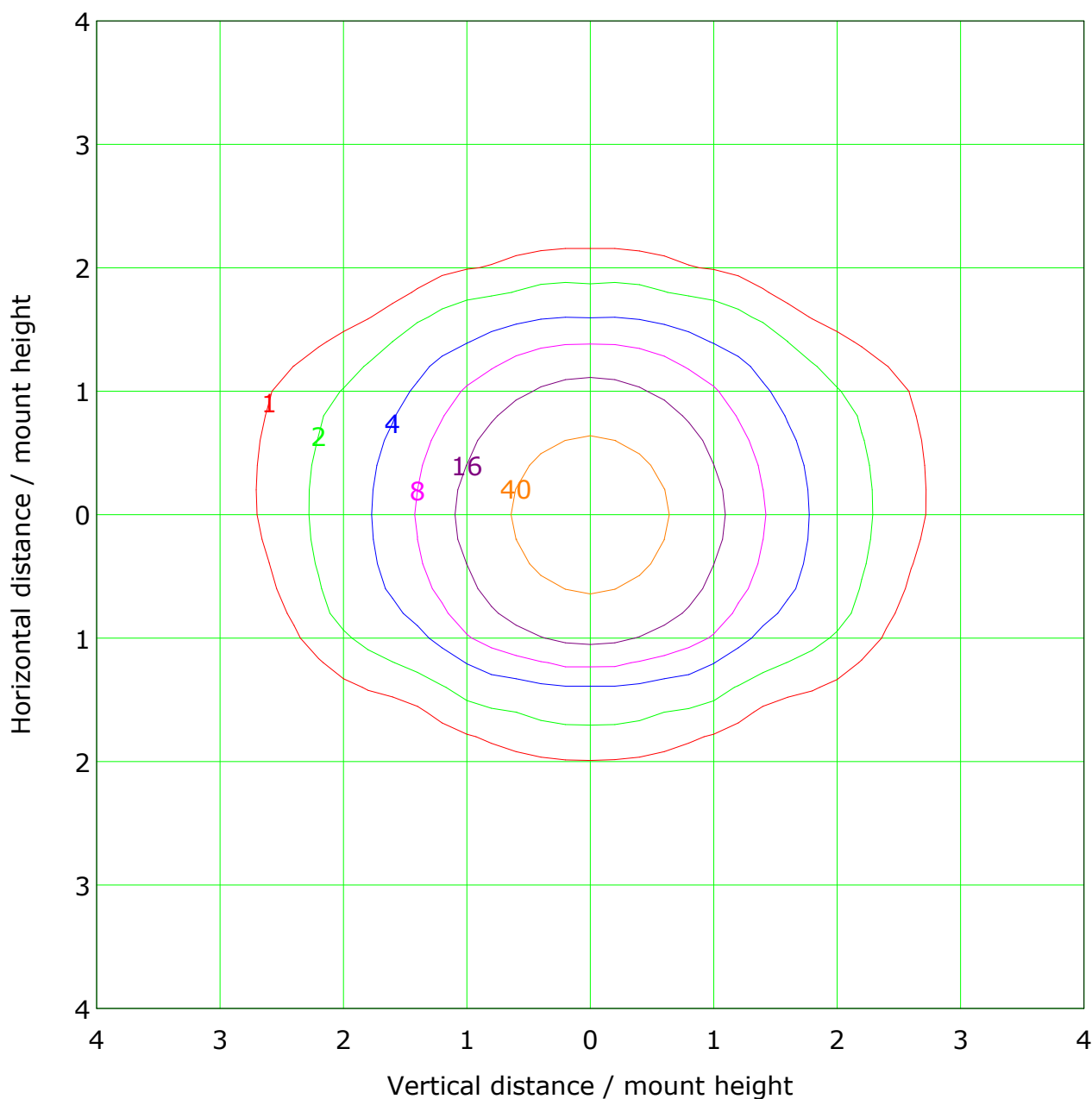
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 81.0 lx	
(1%):	0.8 lx	(2%):	1.6 lx
(5%):	4.0 lx	(10%):	8.1 lx
(20%):	16.2 lx	(50%):	40.5 lx
(100%):	81.0 lx		

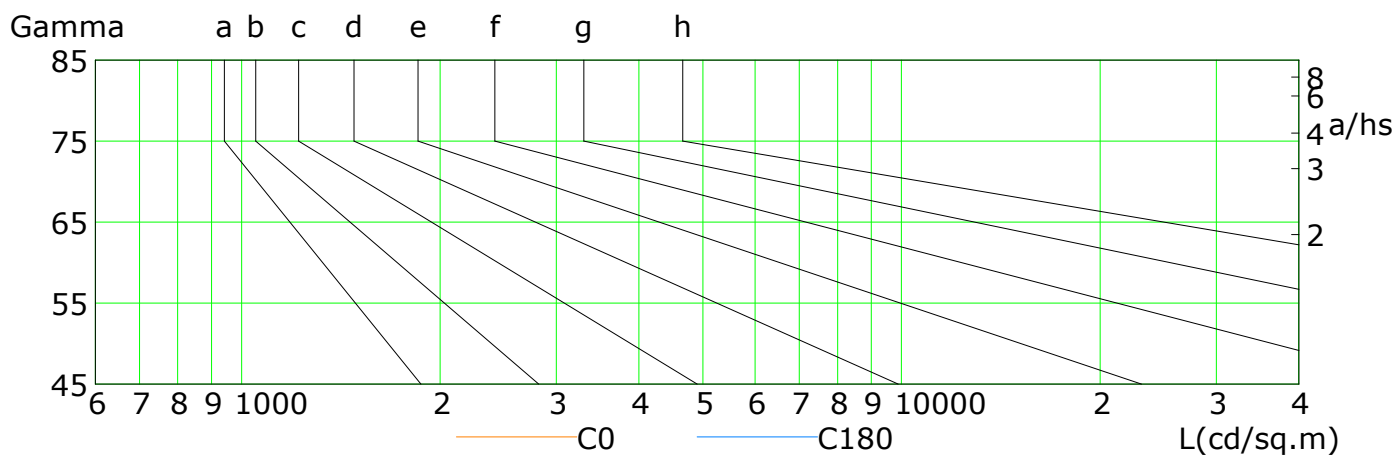
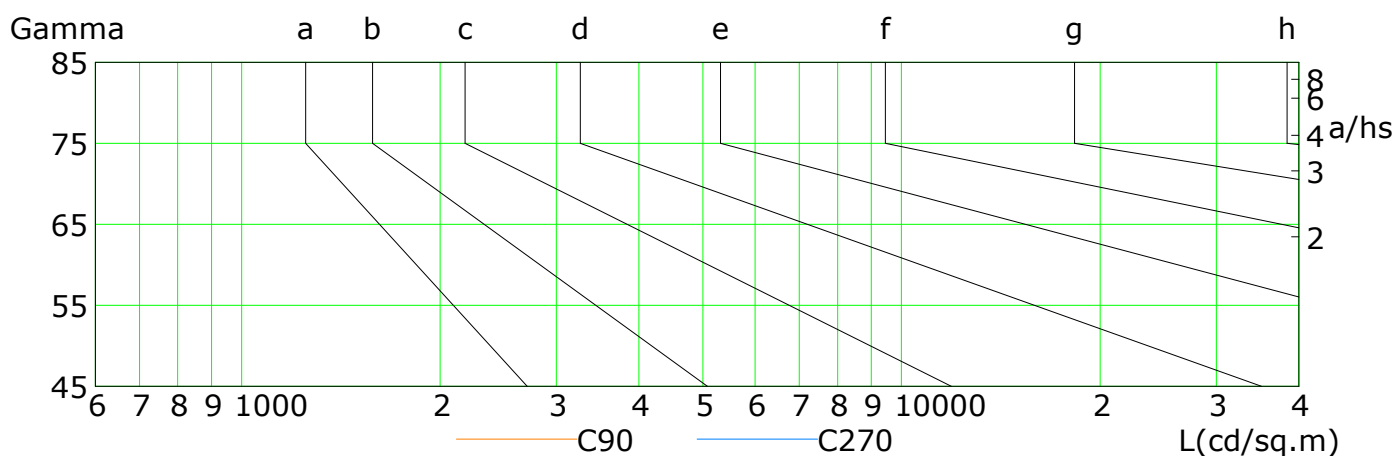
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 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

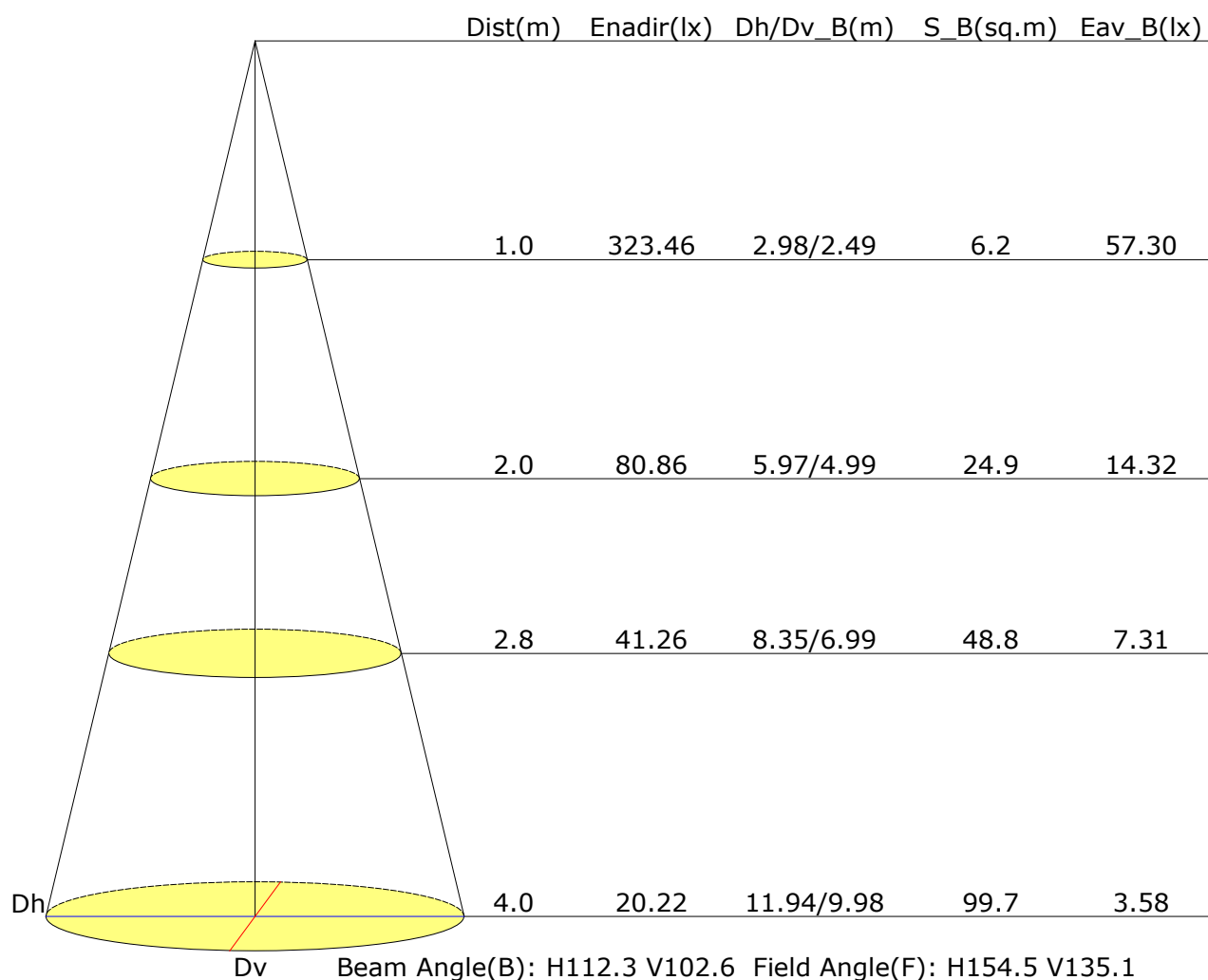


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	219	195	168	138	107	74	43	18	4
C90	212	141	73	47	32	25	14	5	1
C180	219	195	169	139	108	76	46	20	5
C270	226	201	150	76	43	33	22	12	4

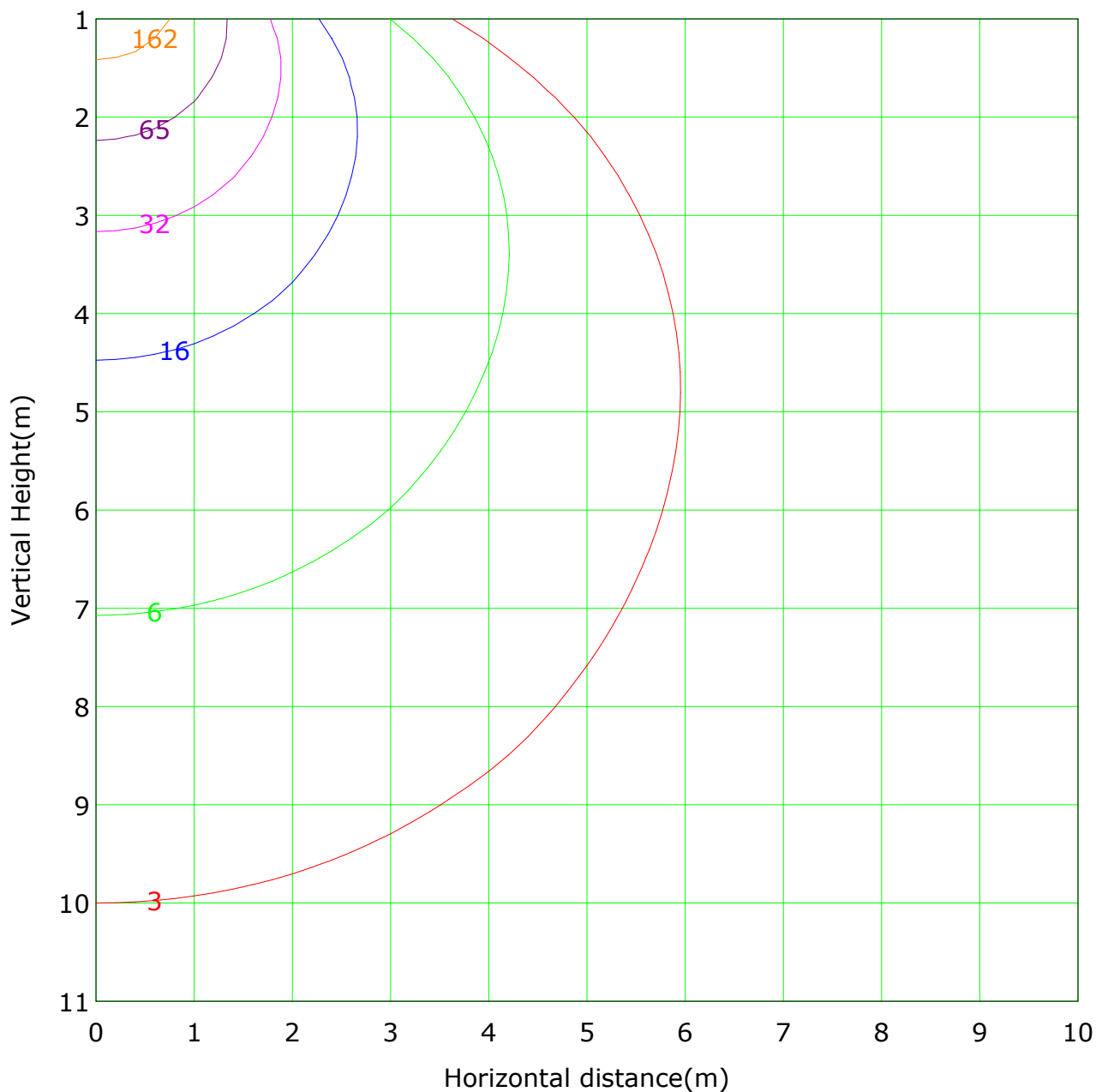
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 323.5 lx

(1%): 3.2 lx	(2%): 6.5 lx
(5%): 16.2 lx	(10%): 32.3 lx
(20%): 64.7 lx	(50%): 161.7 lx
(100%): 323.5 lx	

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

Report No.:

Test Time: 09/10/2024 10:41

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-SL17-03+LLP-03-FH

Lamp Description: F52-40s-120DF2 95cm

Number of Lamps: 1

Lumens per Lamp: 839

Voltage: 24.0 V

Current: 0.346 A

Power: 8.29 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 757.4 lm

Downward Ratio: 90.28%

Total Rated Lamp Lumens: 839.0 lm

Efficiency: 90.28%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 153.7, 148.4, 150.5, 150.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 102.5, 93.8, 98.0, 98.2

Luminaire Efficacy Rating (LER): 91.42

Central Intensity: 317.31 cd

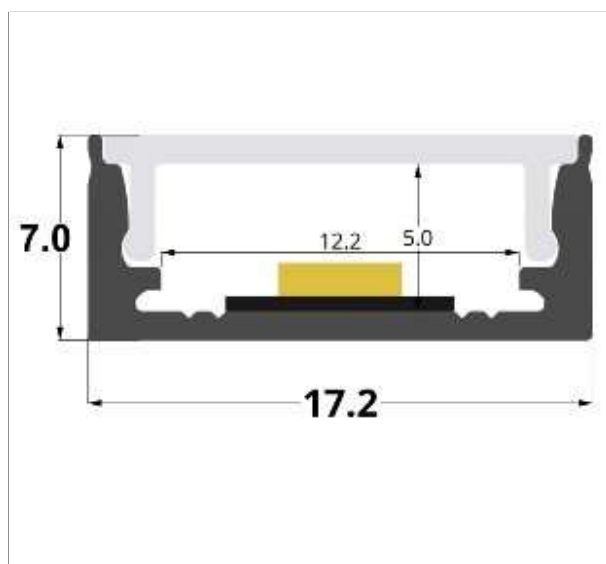
Max. Intensity: 317.68 cd

Pos of Max. Intensity: H270 V1

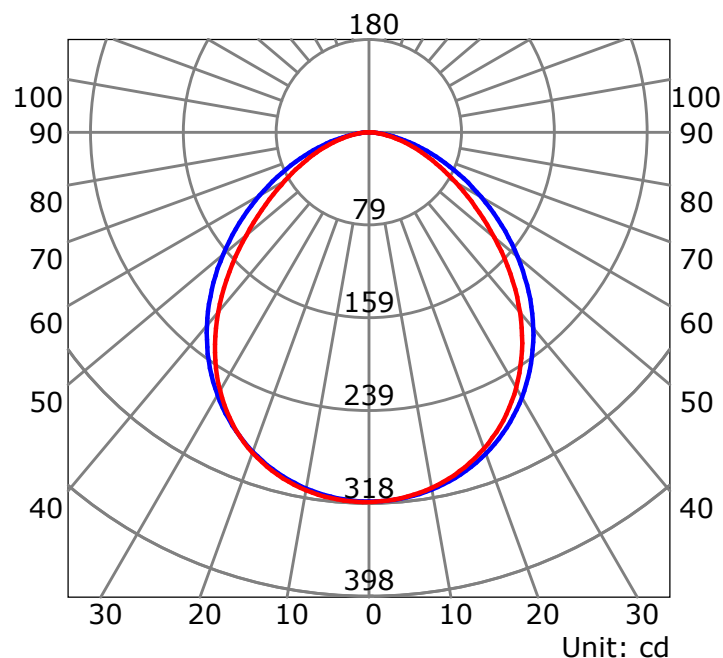
S/MH(C0/C180): 1.23

S/MH(C90/C270): 1.19

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

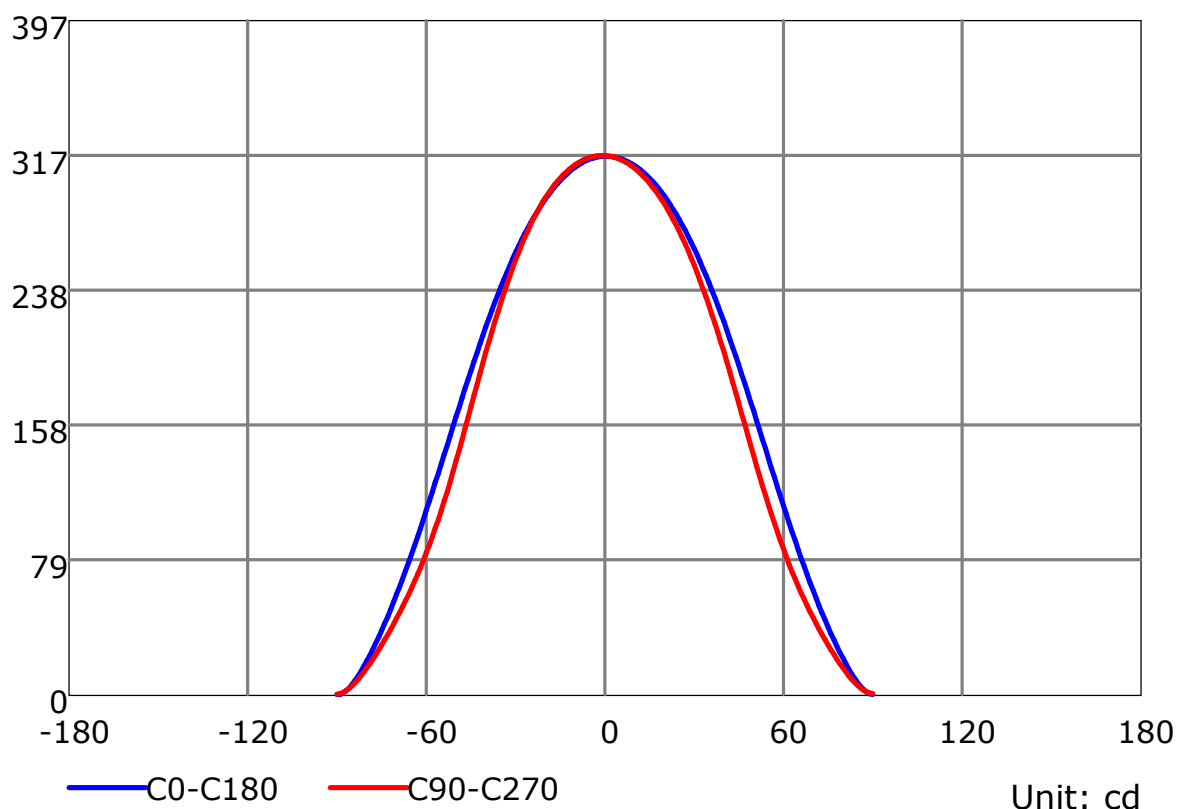
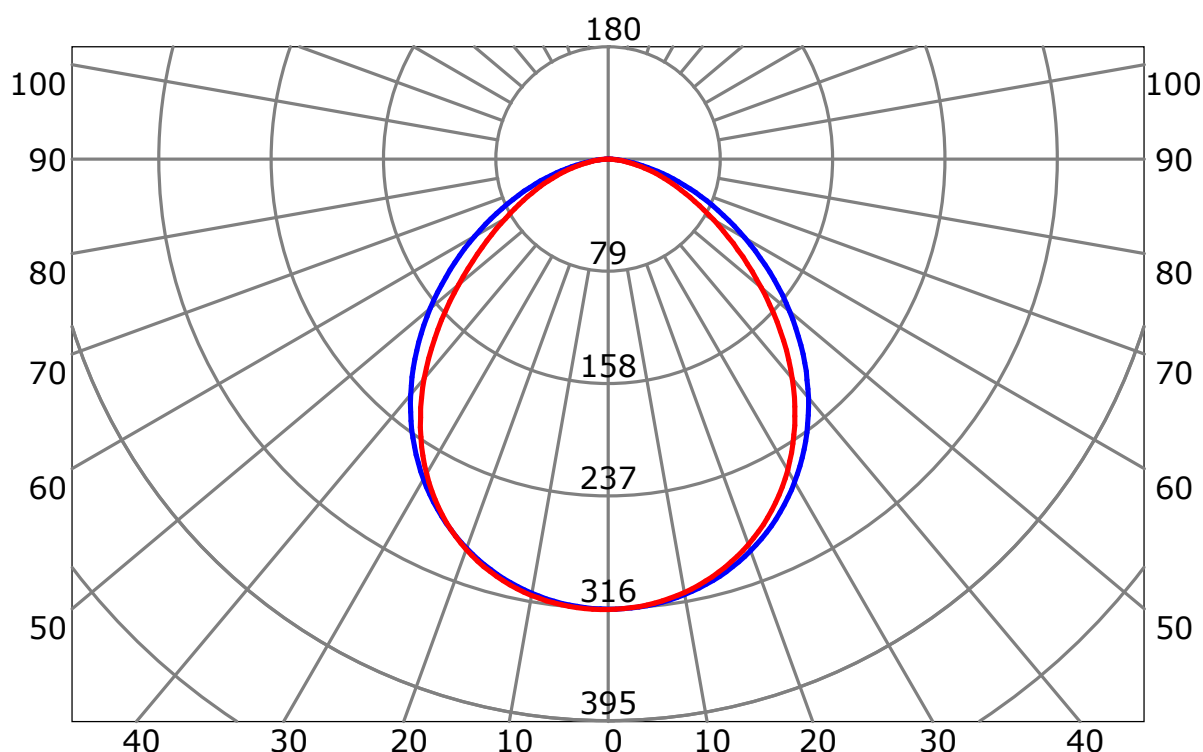
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

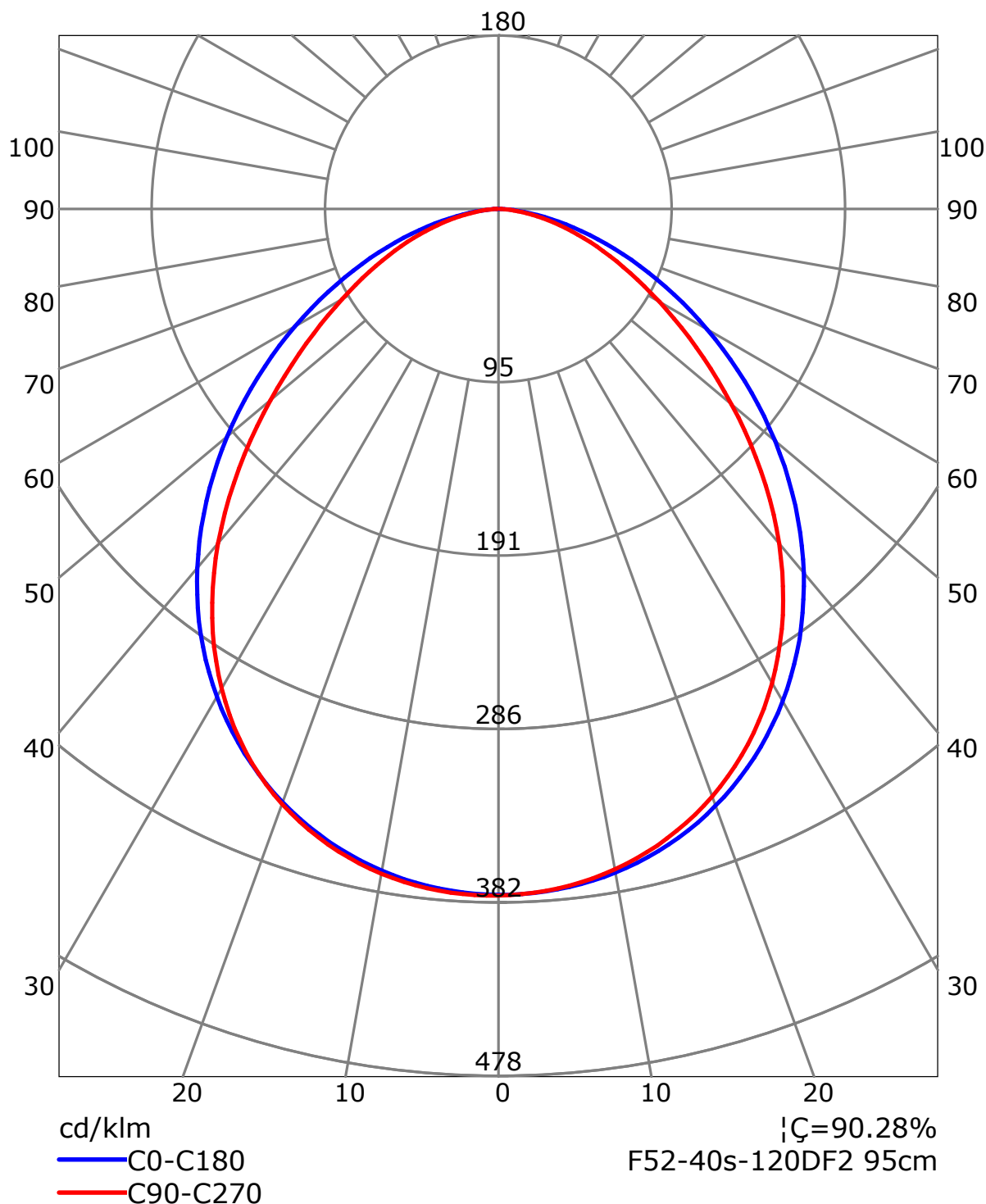


Unit: cd

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

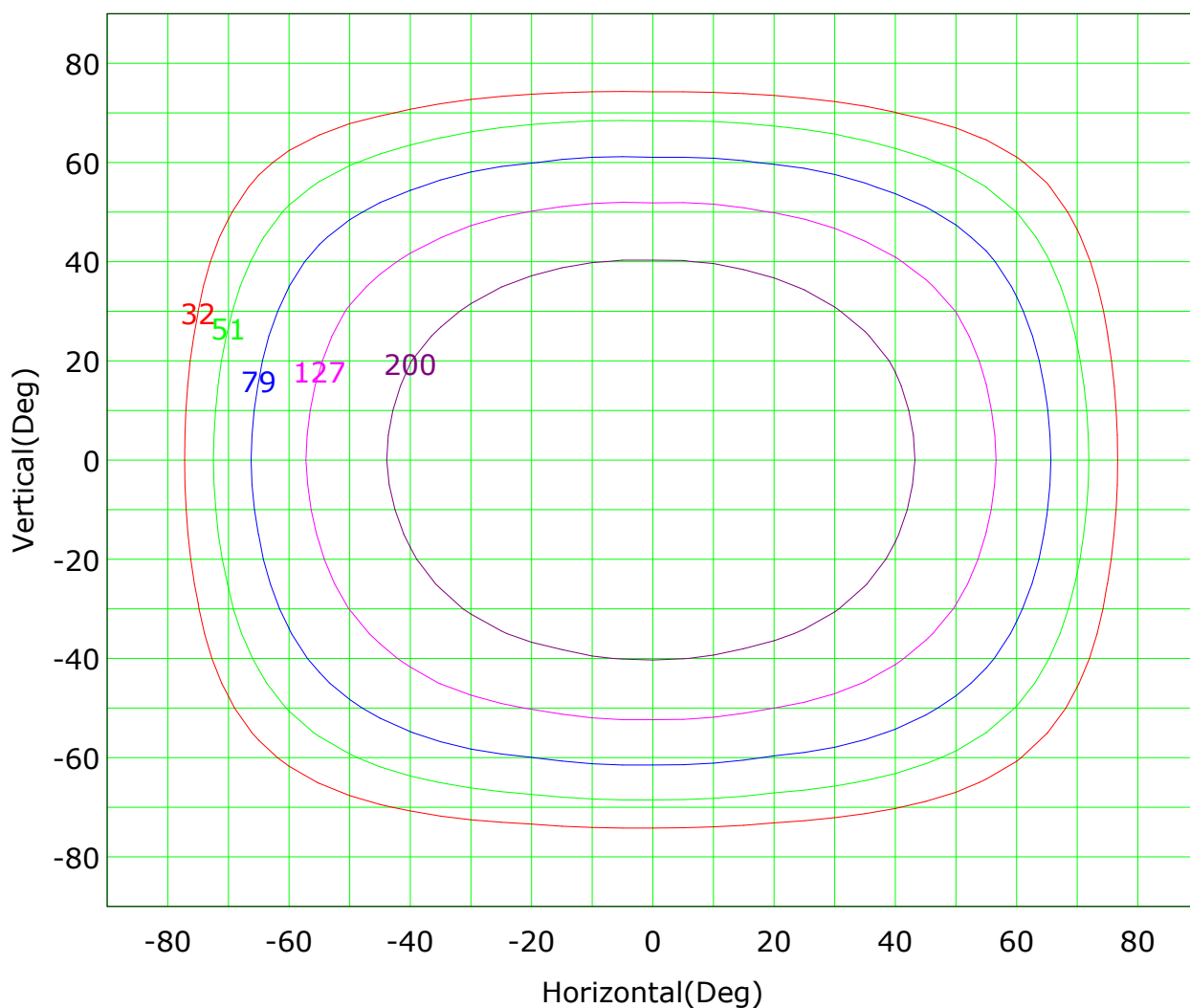
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 318 cd

— (10%):	32 cd	— (16%):	51 cd
— (25%):	79 cd	— (40%):	127 cd
— (63%):	200 cd	— (100%):	318 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

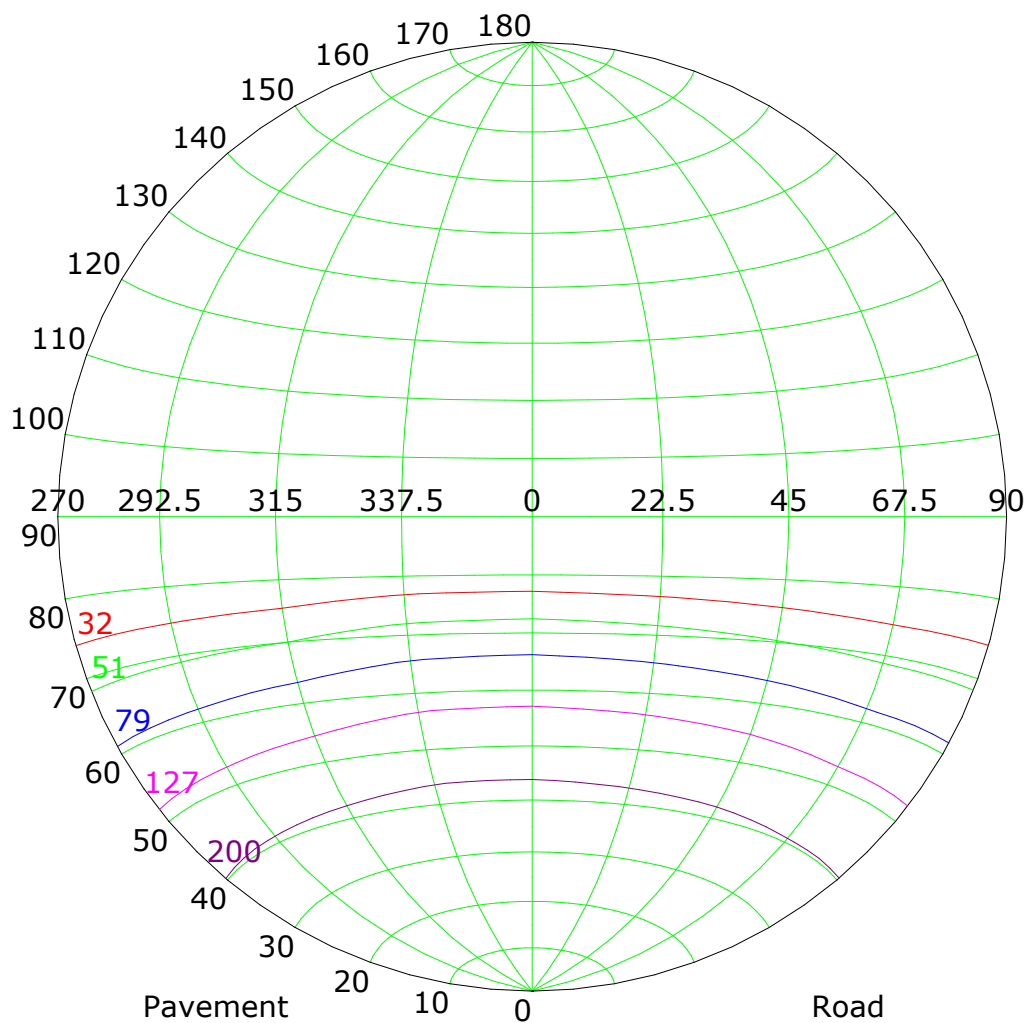
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 318 cd

(10%):	32 cd	(16%):	51 cd
(25%):	79 cd	(40%):	127 cd
(63%):	200 cd	(100%):	318 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

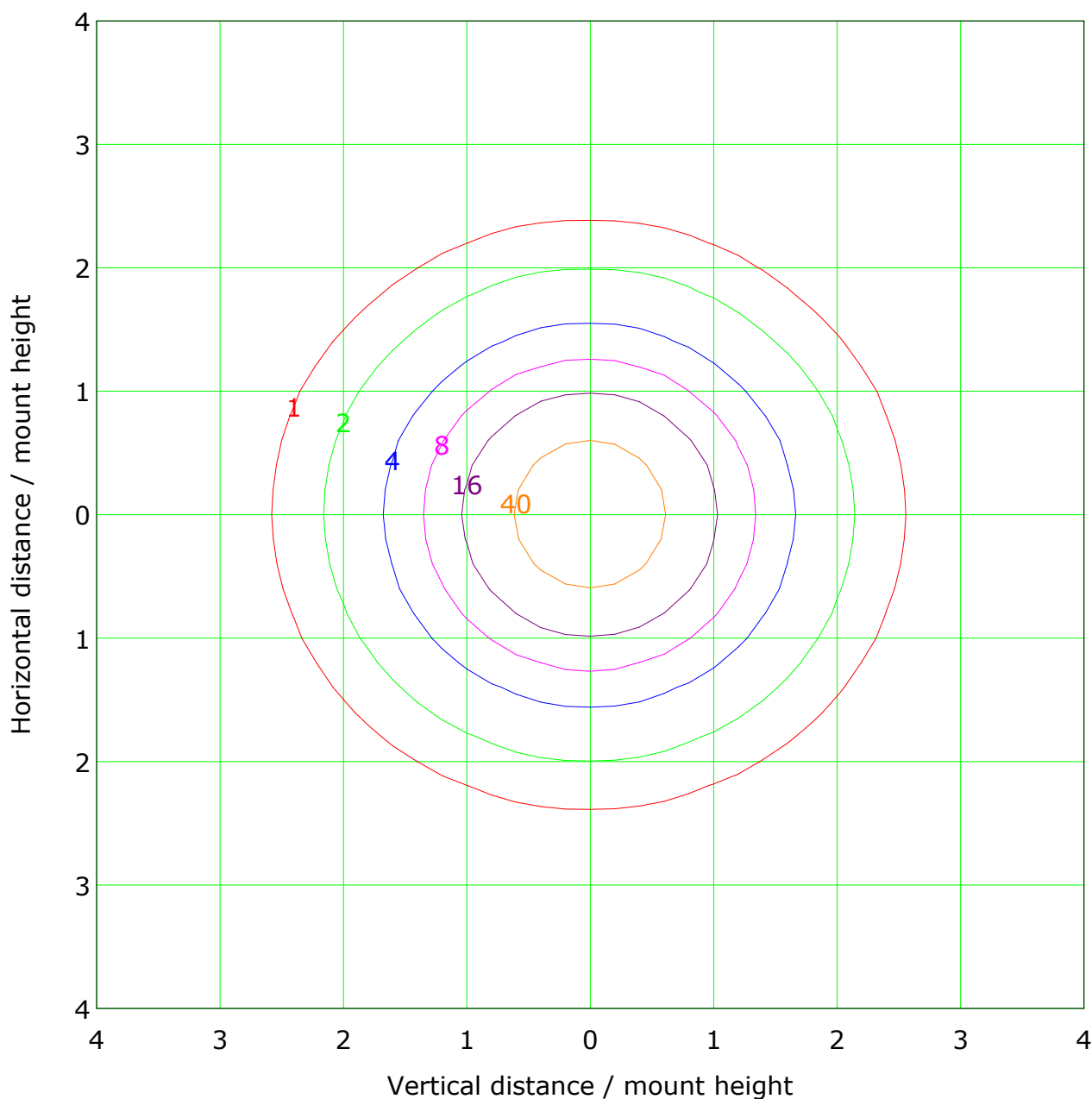
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 79.4 lx	
— (1%):	0.8 lx	— (2%):	1.6 lx
— (5%):	4.0 lx	— (10%):	7.9 lx
— (20%):	15.9 lx	— (50%):	39.7 lx
— (100%):	79.4 lx		

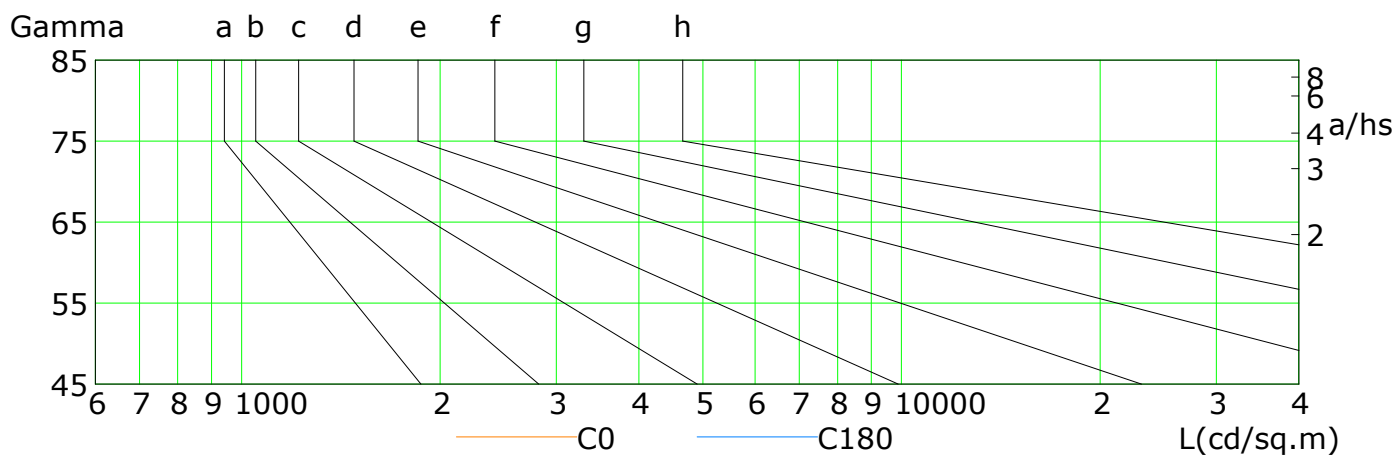
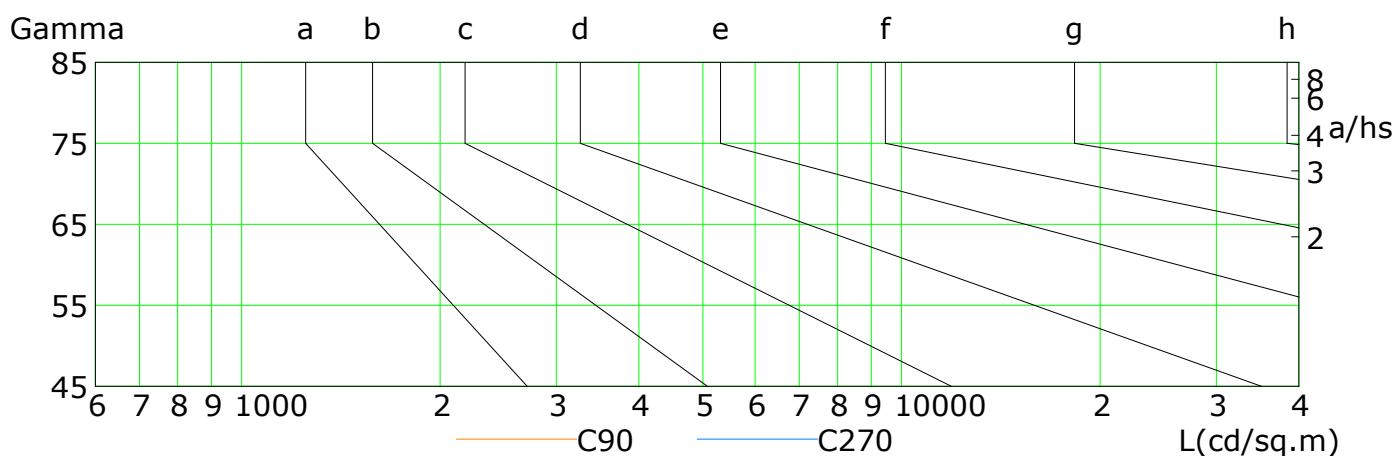
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 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

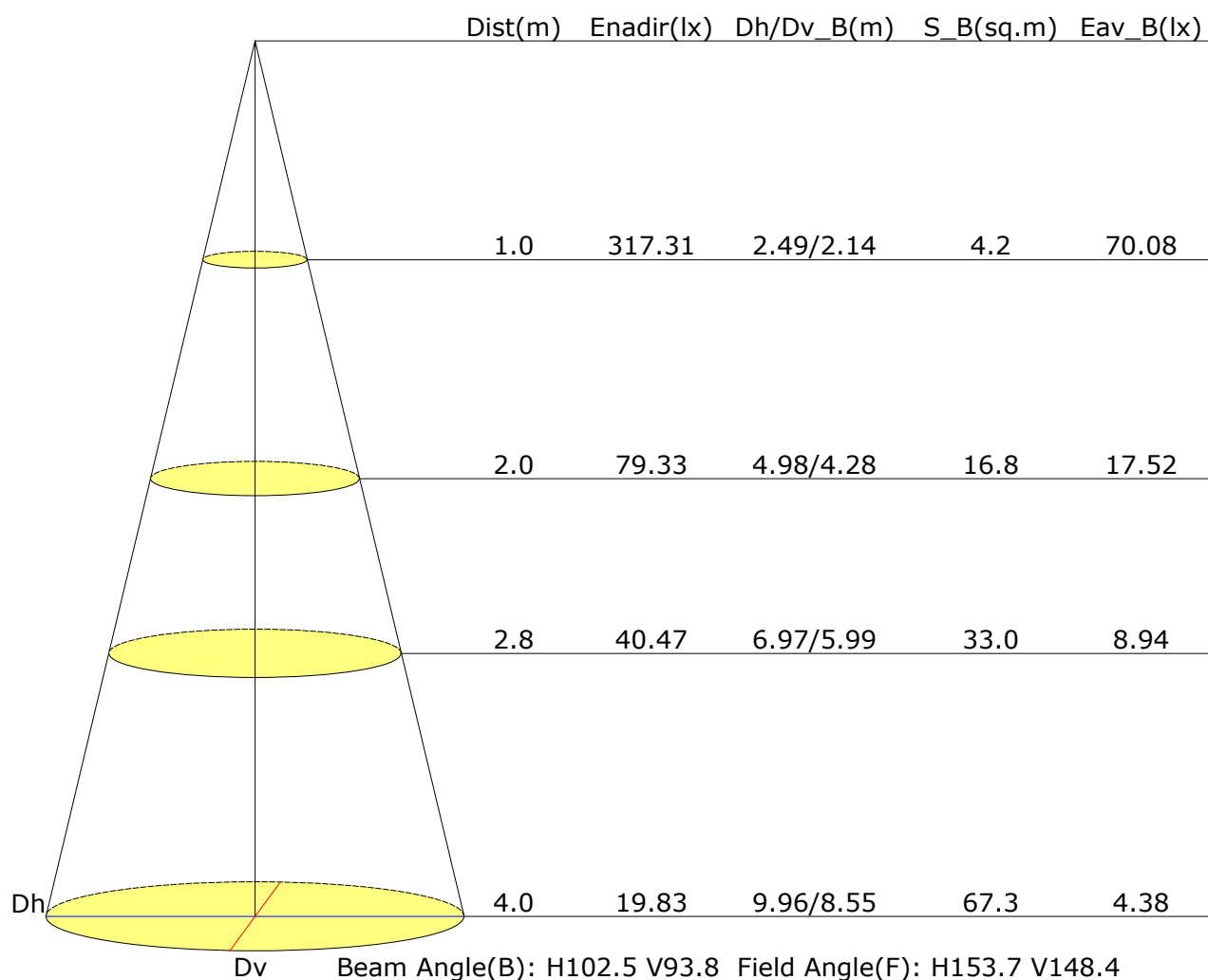


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	194	167	139	111	85	61	40	22	7
C90	172	141	112	86	64	45	29	16	5
C180	191	164	136	109	83	59	38	20	6
C270	170	138	109	84	63	45	29	16	5

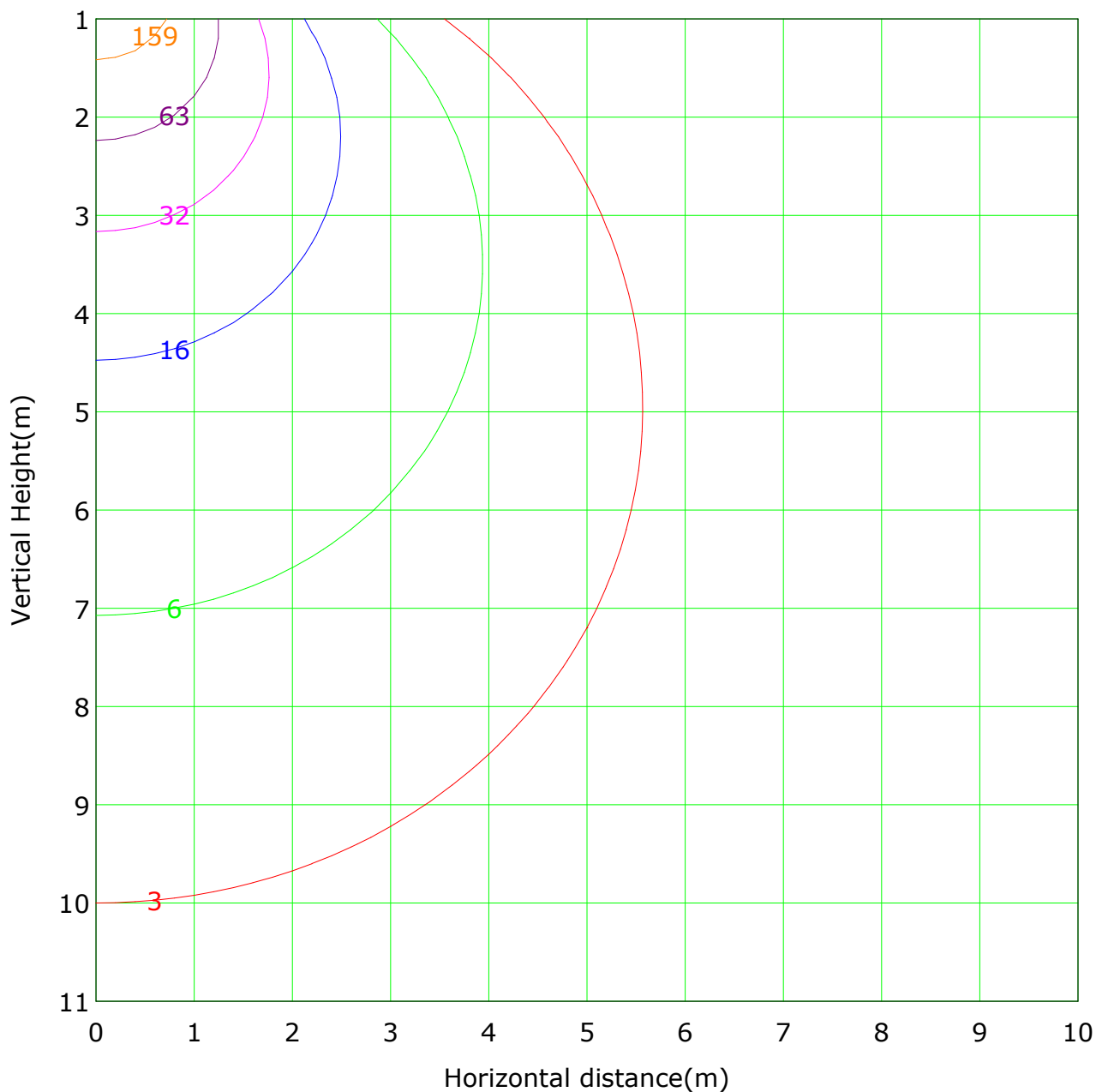
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 317.3 lx

— (1%): 3.2 lx — (2%): 6.3 lx

— (5%): 15.9 lx — (10%): 31.7 lx

— (20%): 63.5 lx — (50%): 158.7 lx

— (100%): 317.3 lx

Report No.:

Test Time: 09/10/2024 15:24

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-SL17-03+LLP-03-FM

Lamp Description: F52-40s-120DF2 95cm

Number of Lamps: 1

Lumens per Lamp: 839

Voltage: 24.0 V

Current: 0.346 A

Power: 8.30 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 636.9 lm

Downward Ratio: 75.91%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.8, 159.7, 159.8, 159.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.5, 111.1, 111.4, 111.5

Luminaire Efficacy Rating (LER): 76.79

Total Rated Lamp Lumens: 839.0 lm

Efficiency: 75.91%

Upward Ratio: 0.00%

Central Intensity: 227.39 cd

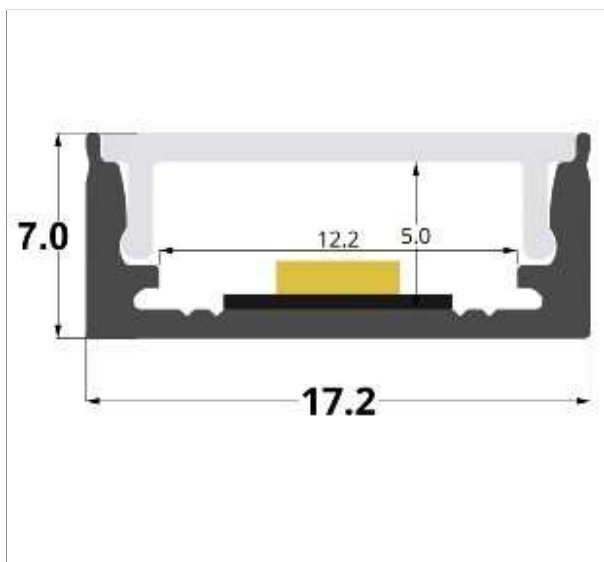
Max. Intensity: 227.42 cd

Pos of Max. Intensity: H22.5 V0

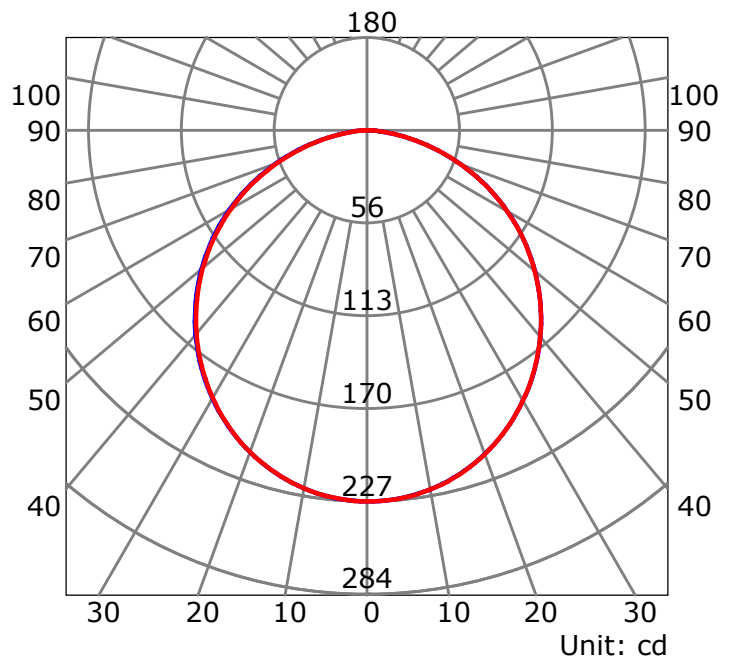
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.24

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

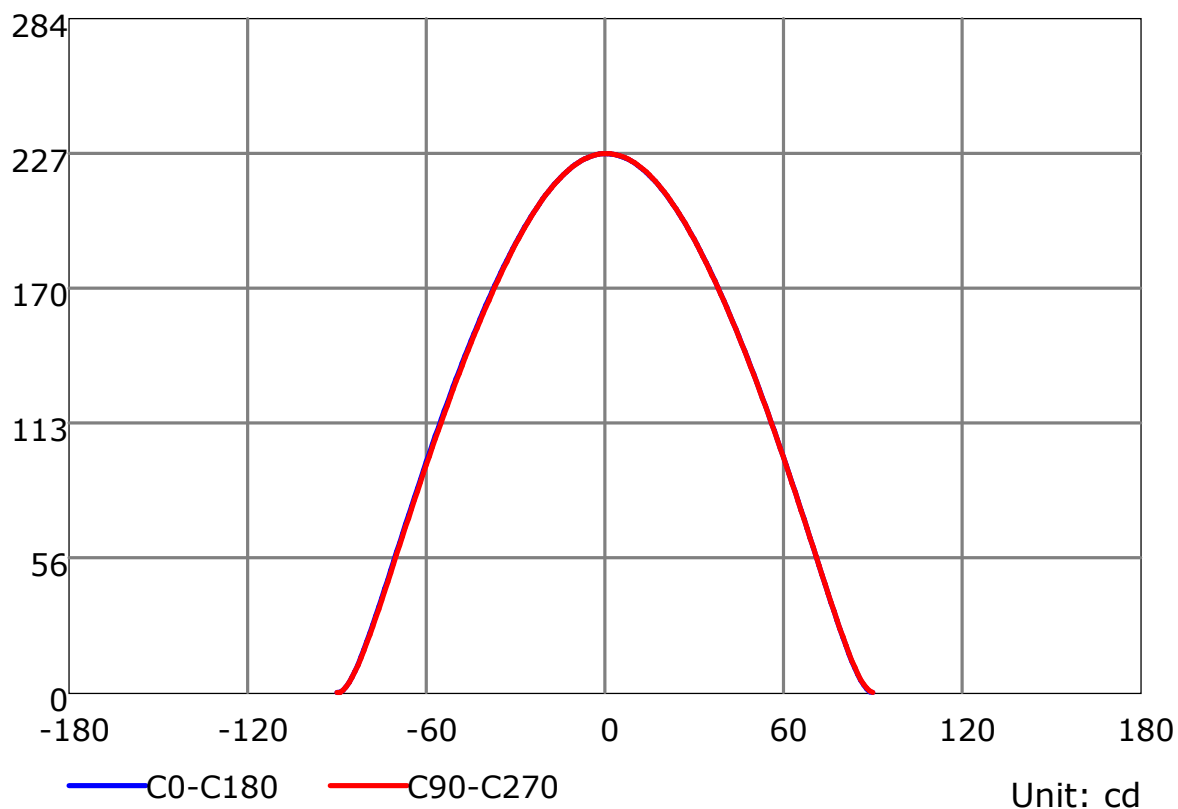
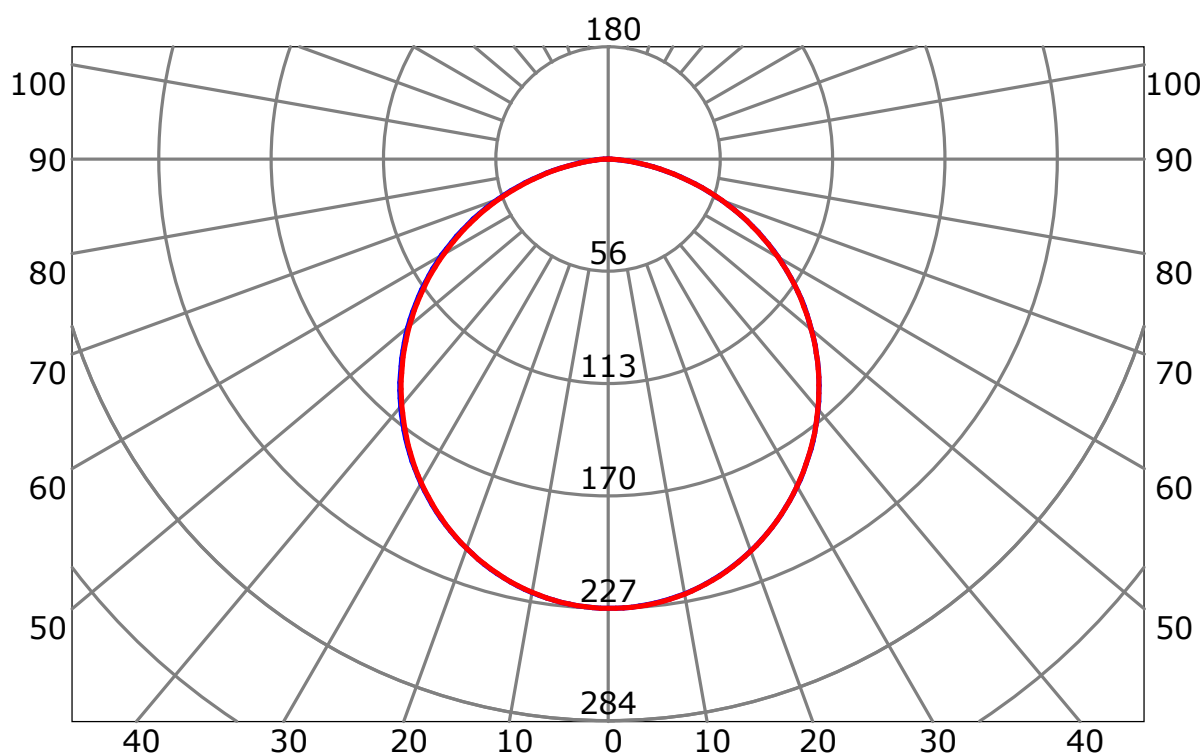
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

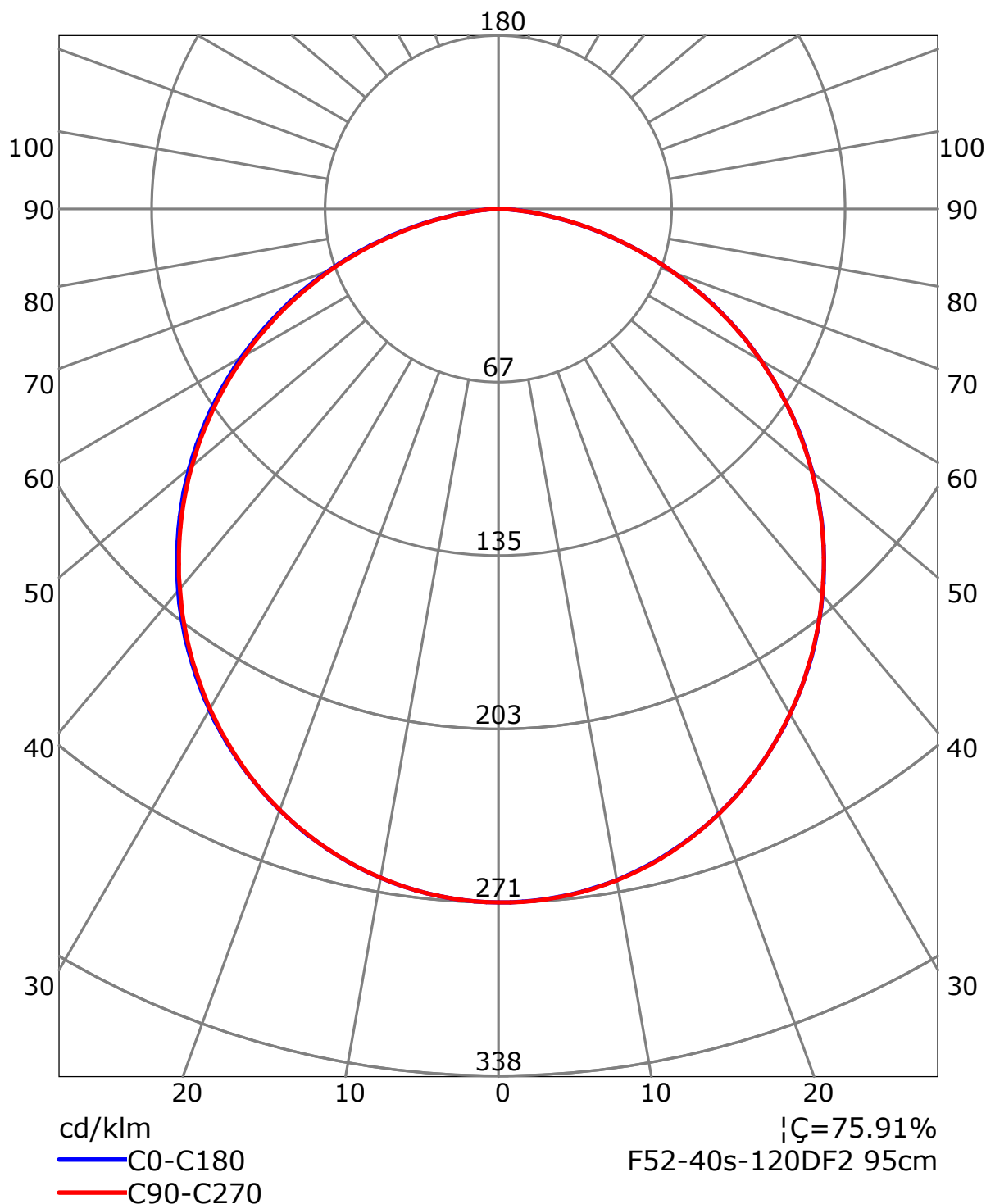
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

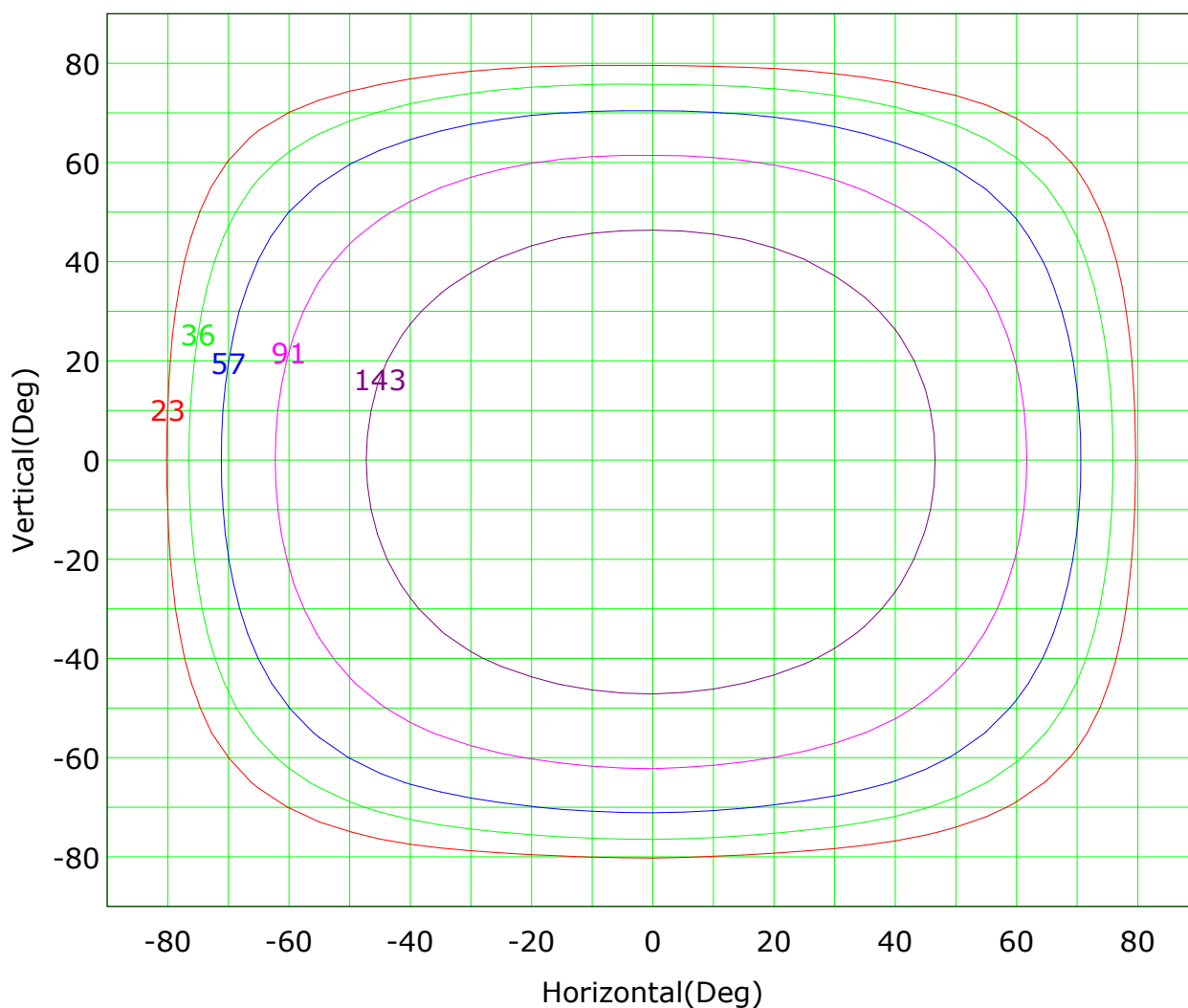
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 7.792 m
 Humidity:
 Inspector:

Isocandela (rectangle)



Imax (100%): 227 cd

(10%):	23 cd	(16%):	36 cd
(25%):	57 cd	(40%):	91 cd
(63%):	143 cd	(100%):	227 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

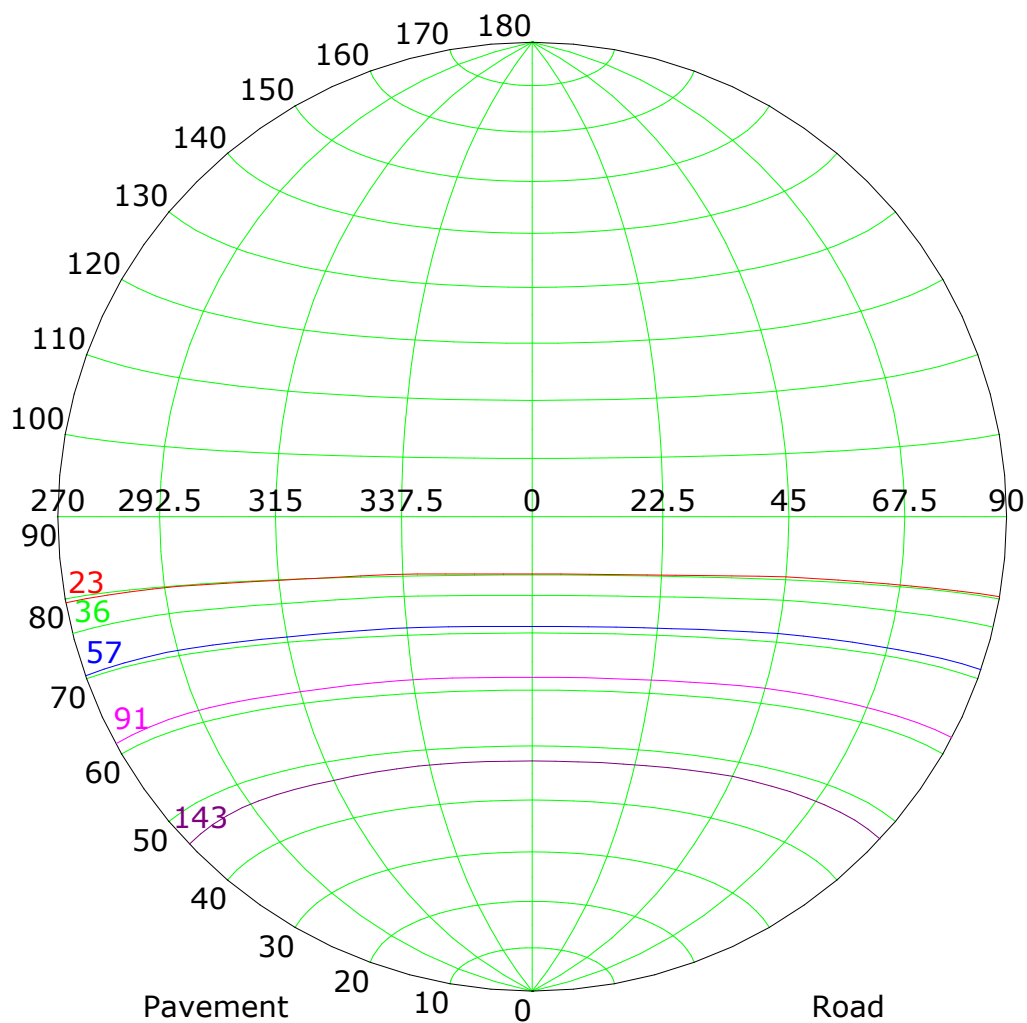
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 227 cd

(10%):	23 cd	(16%):	36 cd
(25%):	57 cd	(40%):	91 cd
(63%):	143 cd	(100%):	227 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

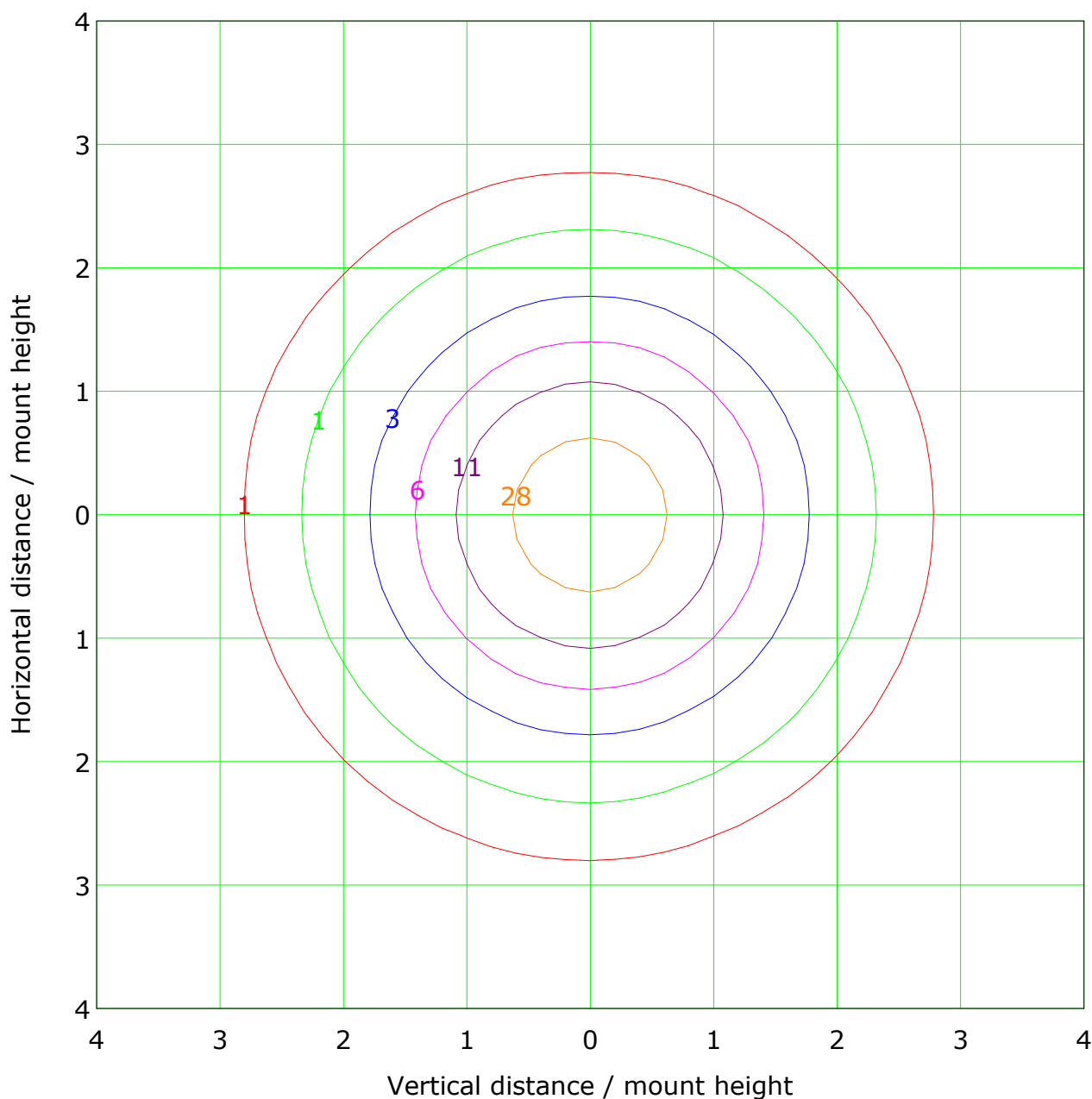
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 56.9 lx	
— (1%):	0.6 lx	— (2%):	1.1 lx
— (5%):	2.8 lx	— (10%):	5.7 lx
— (20%):	11.4 lx	— (50%):	28.4 lx
— (100%):	56.9 lx		

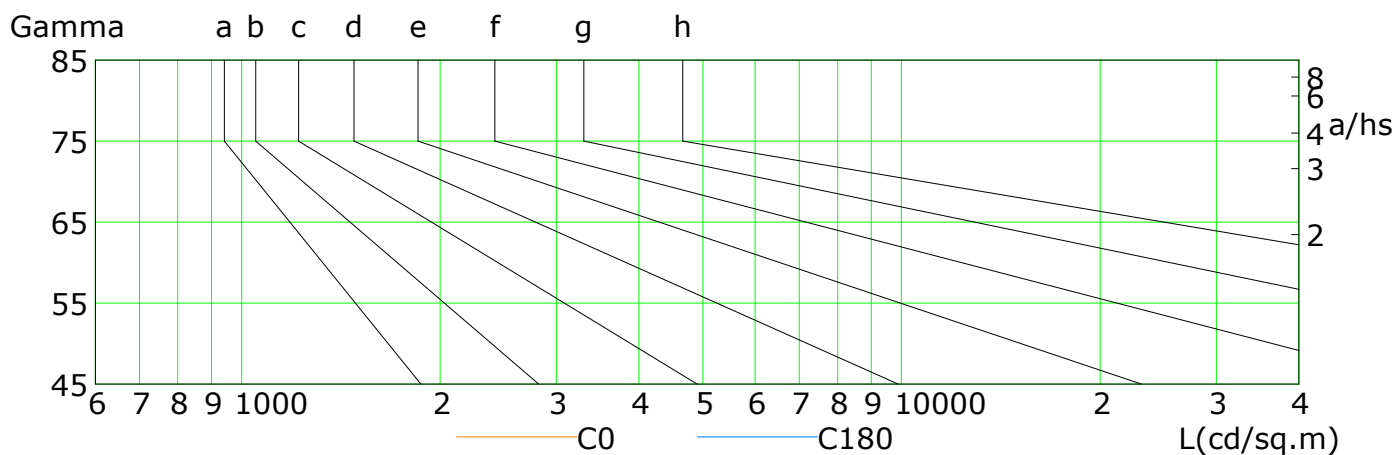
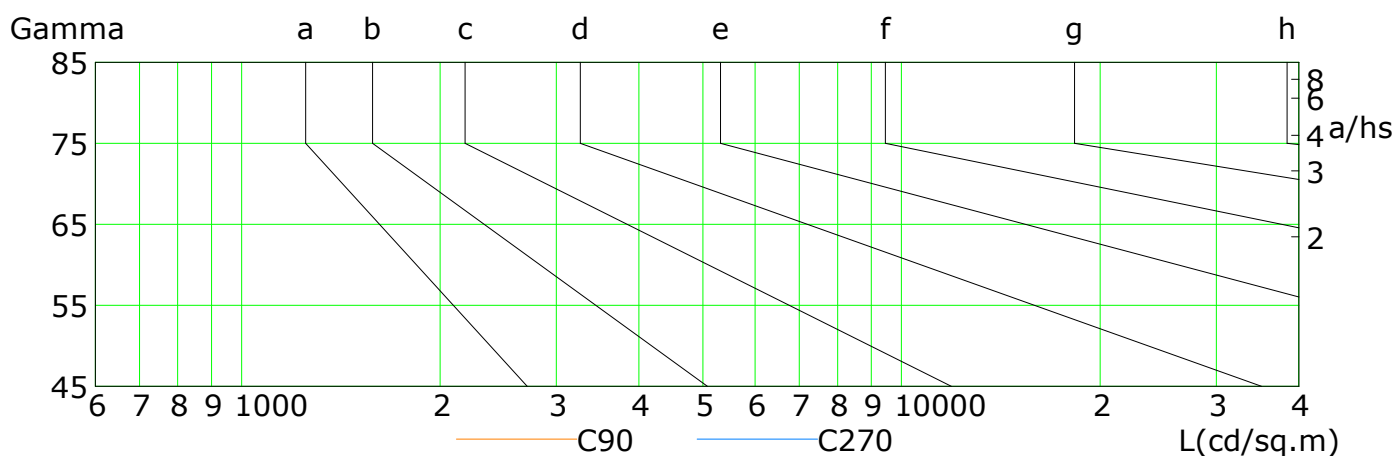
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 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

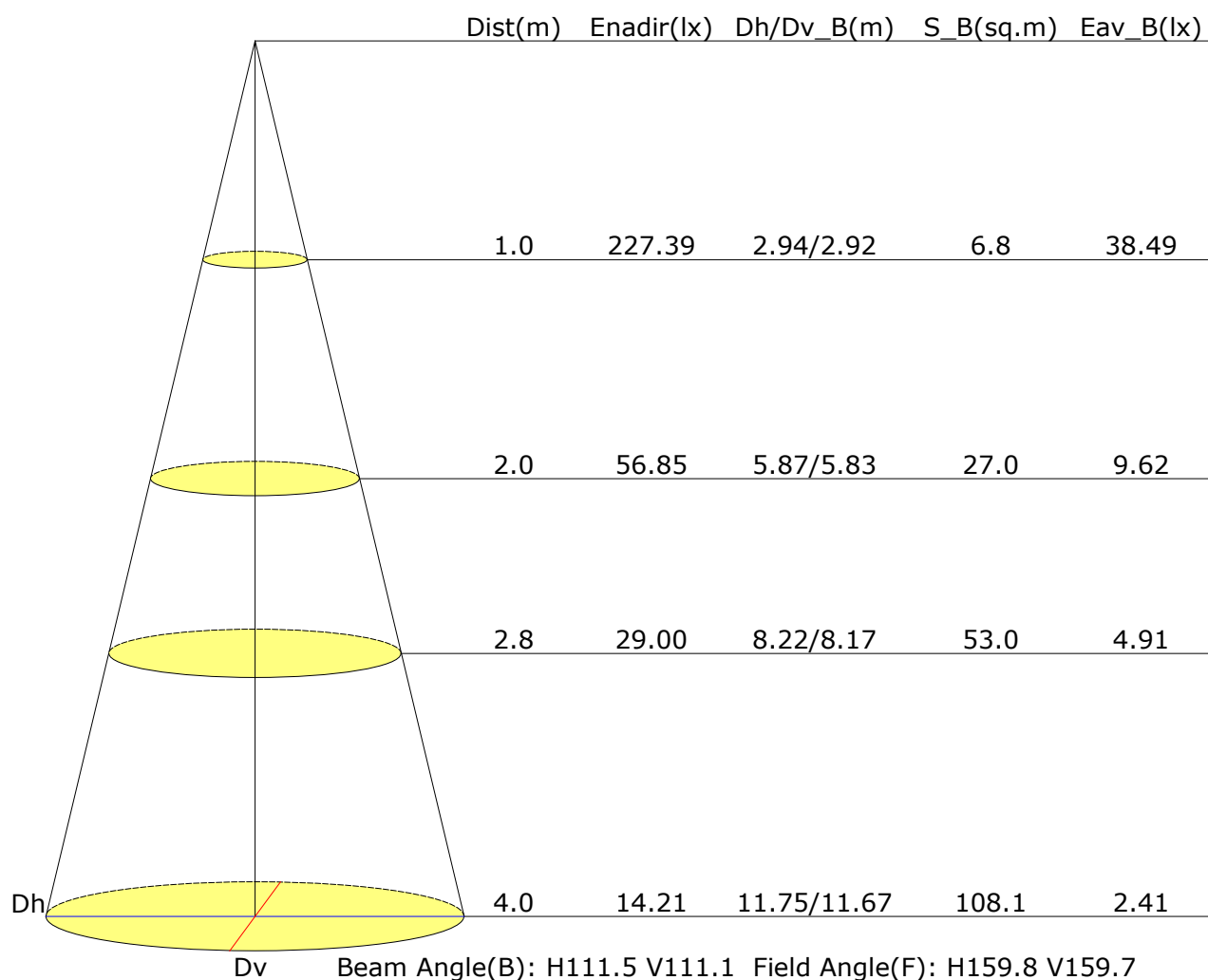


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	151	134	117	99	81	61	42	23	8
C90	150	134	117	99	81	61	42	24	8
C180	148	132	115	97	79	59	40	22	7
C270	147	131	114	96	77	58	39	21	6

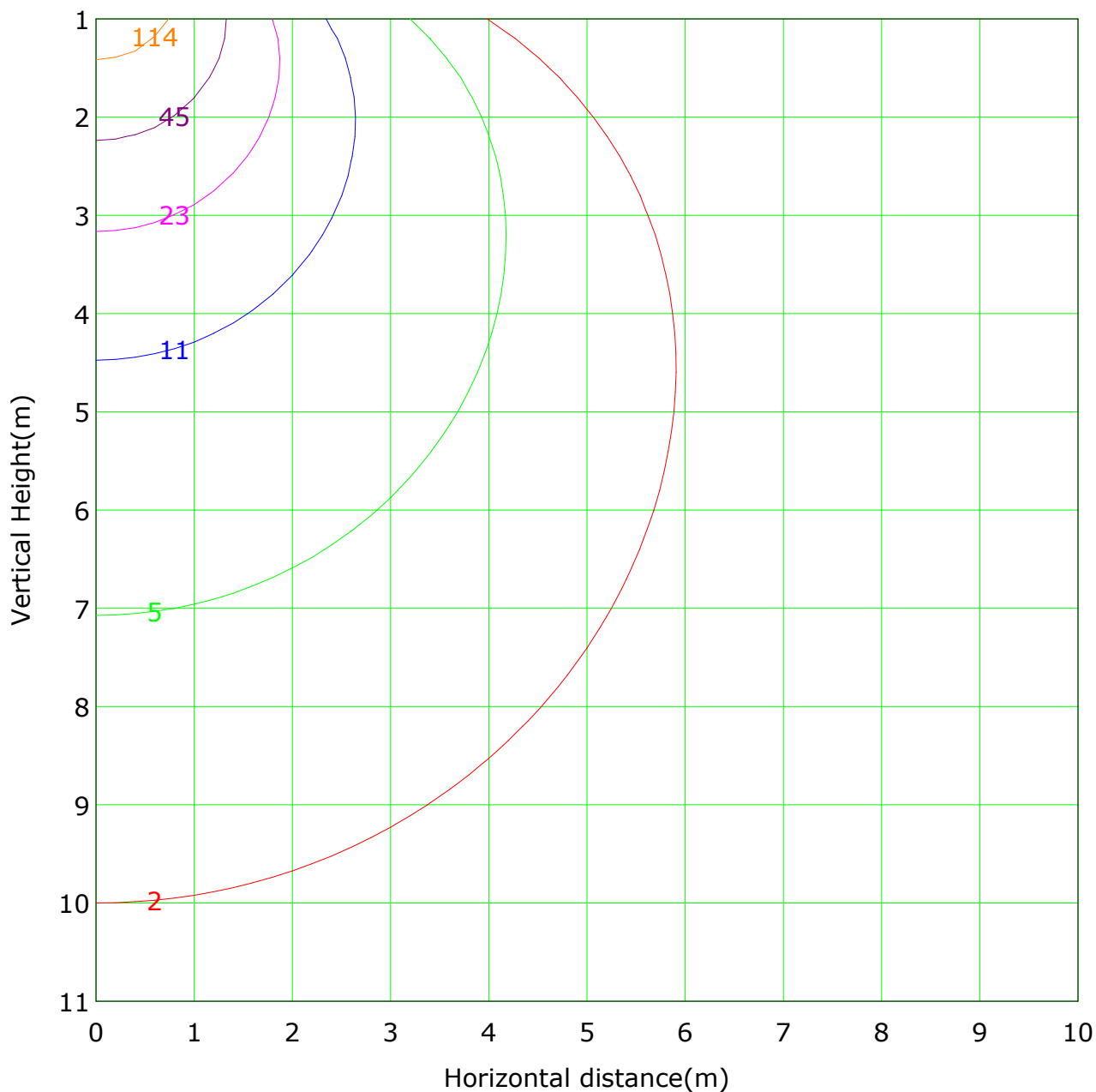
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 227.4 lx

— (1%): 2.3 lx	— (2%): 4.5 lx
— (5%): 11.4 lx	— (10%): 22.7 lx
— (20%): 45.5 lx	— (50%): 113.7 lx
— (100%): 227.4 lx	

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

Report No.:

Test Time: 09/10/2024 16:11

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-SL17-03+LLP-03-FS

Lamp Description: F52-40s-120DF2 95cm

Number of Lamps: 1

Lumens per Lamp: 839

Voltage: 24.0 V

Current: 0.346 A

Power: 8.30 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 650.5 lm

Downward Ratio: 77.53%

Total Rated Lamp Lumens: 839.0 lm

Efficiency: 77.53%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.5, 162.7, 162.6, 162.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.7, 107.2, 107.6, 107.6

Luminaire Efficacy Rating (LER): 78.42

Central Intensity: 237.7 cd

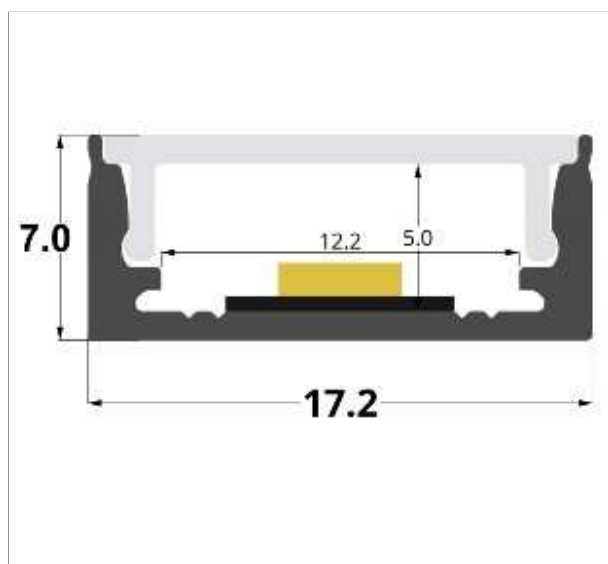
Max. Intensity: 237.73 cd

Pos of Max. Intensity: H22.5 V0

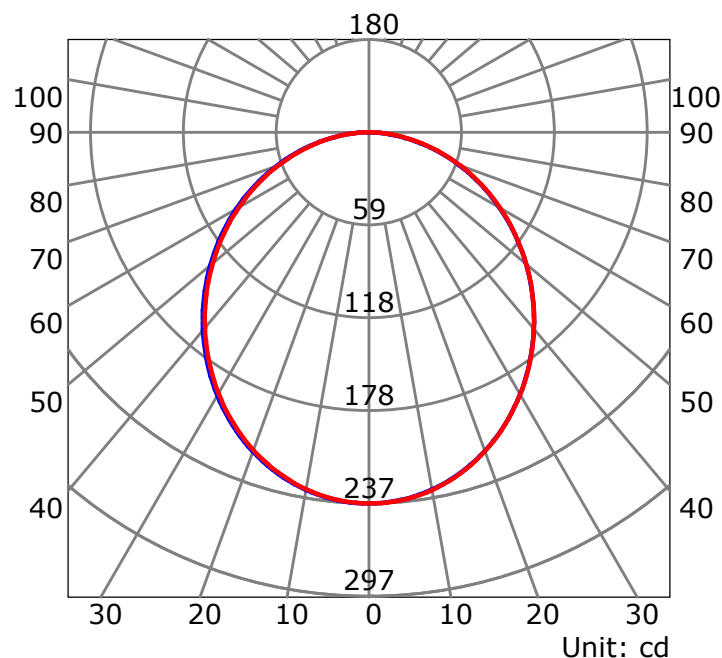
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.21

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

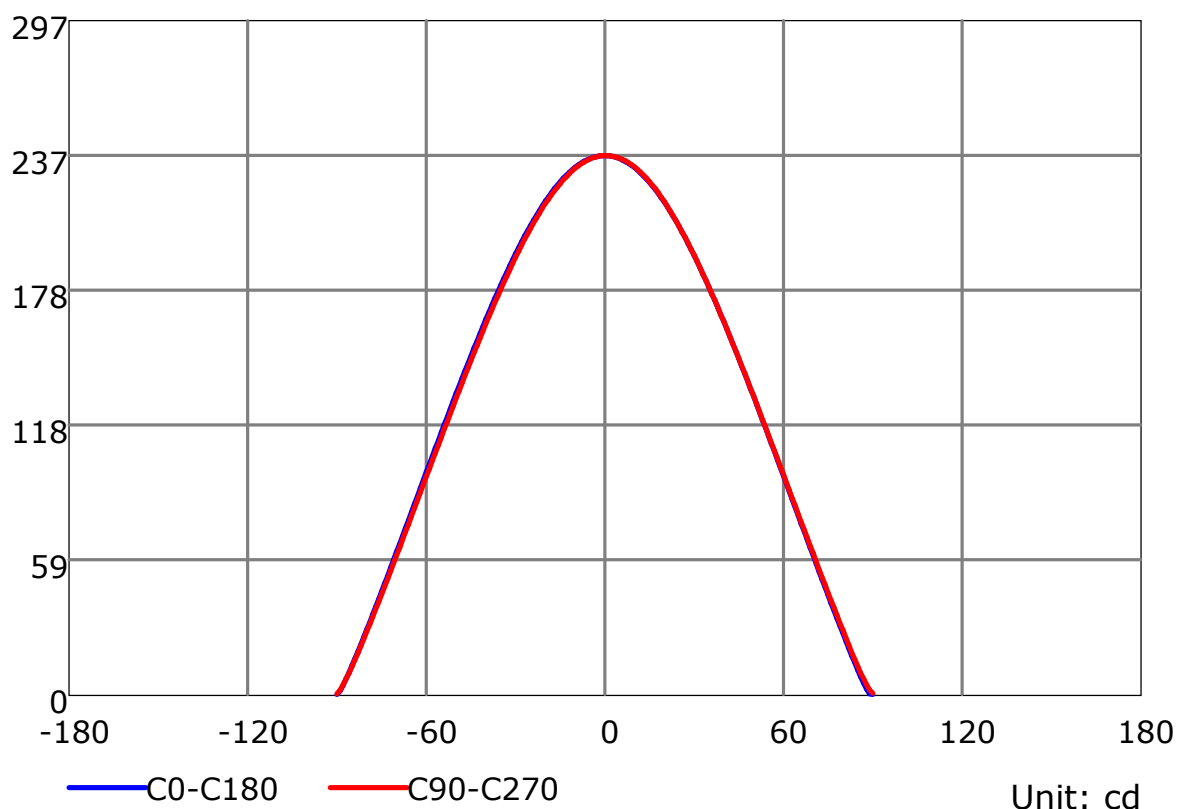
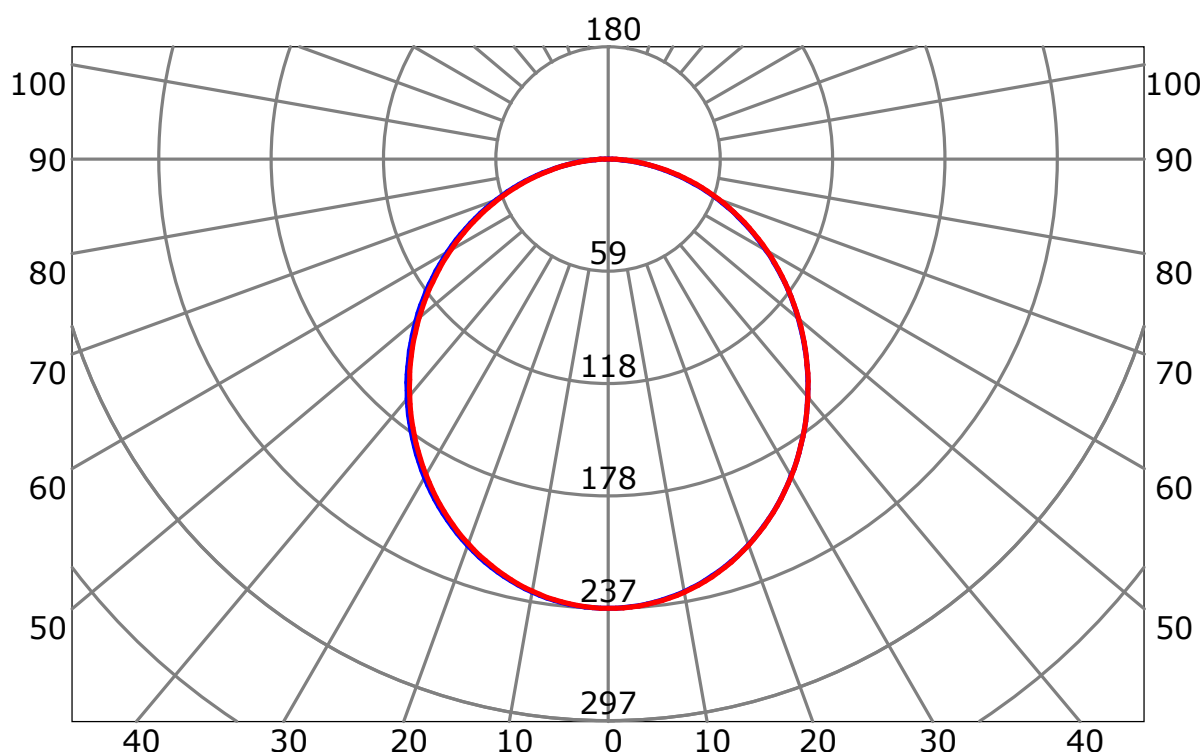
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

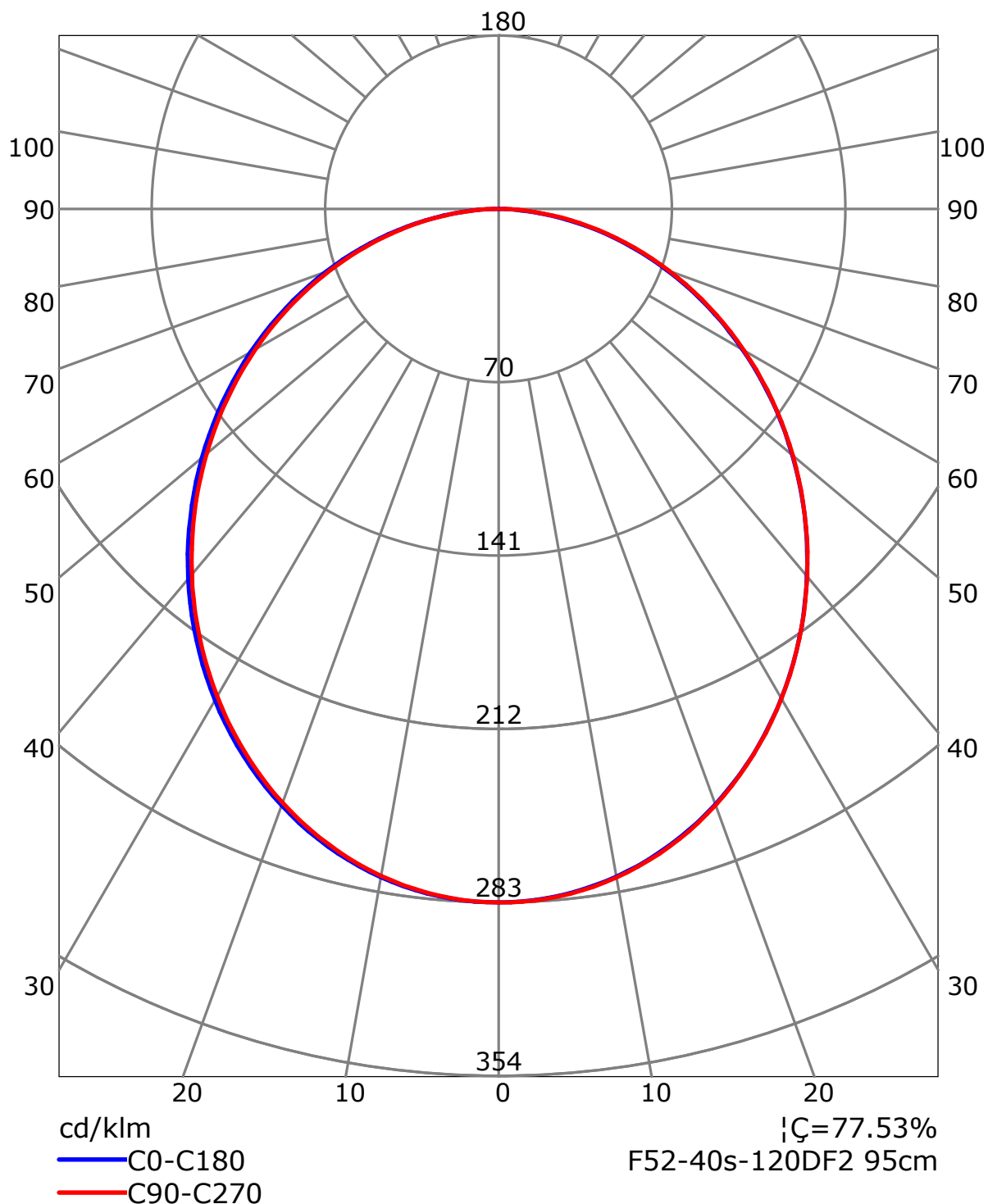
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 7.792 m
 Humidity:
 Inspector:

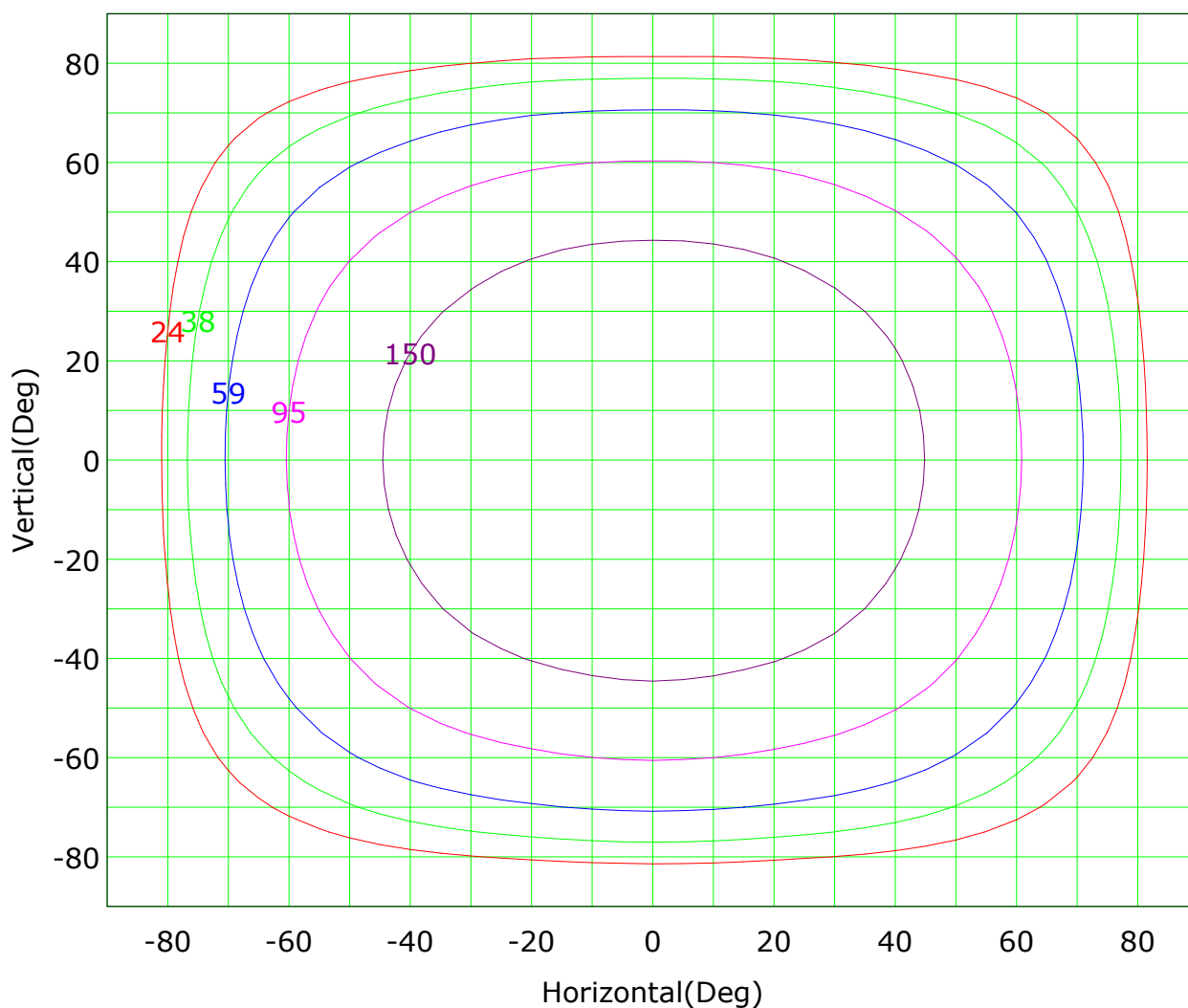
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 7.792 m
 Humidity:
 Inspector:

Isocandela (rectangle)



Imax (100%): 238 cd

(10%):	24 cd	(16%):	38 cd
(25%):	59 cd	(40%):	95 cd
(63%):	150 cd	(100%):	238 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

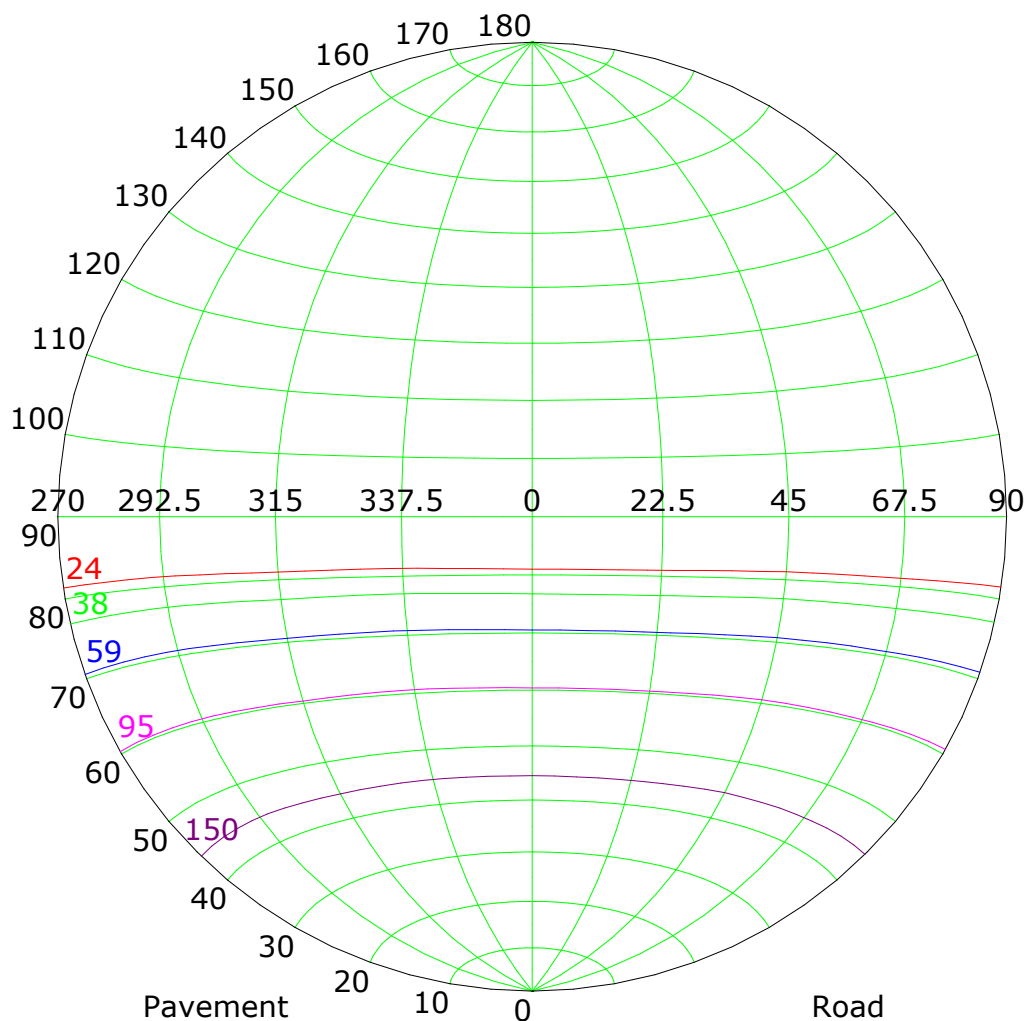
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

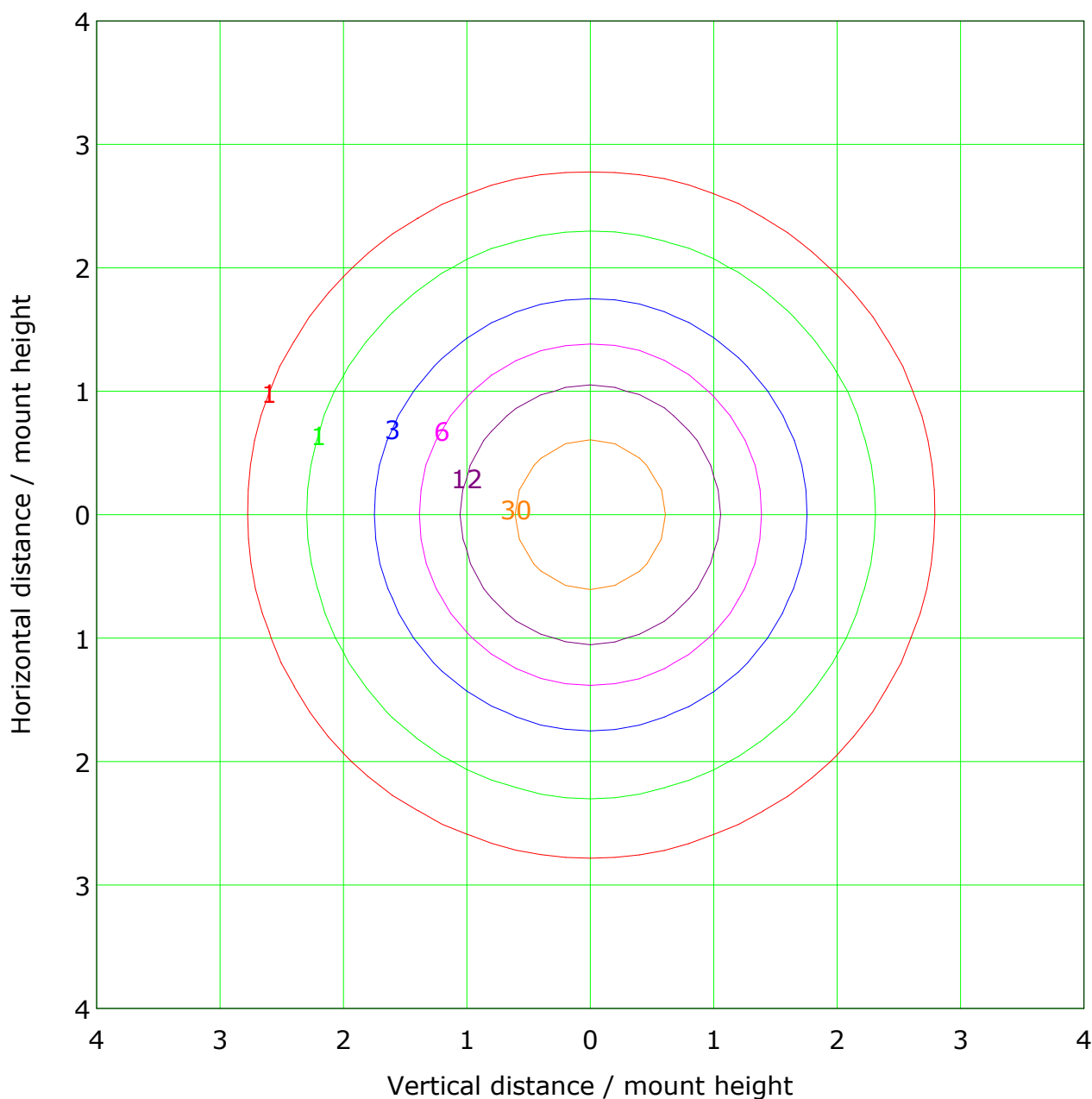
Isocandela (sphere)



Imax (100%): 238 cd

(10%):	24 cd	(16%):	38 cd
(25%):	59 cd	(40%):	95 cd
(63%):	150 cd	(100%):	238 cd

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 59.4 lx	
— (1%):	0.6 lx	— (2%):	1.2 lx
— (5%):	3.0 lx	— (10%):	5.9 lx
— (20%):	11.9 lx	— (50%):	29.7 lx
— (100%):	59.4 lx		

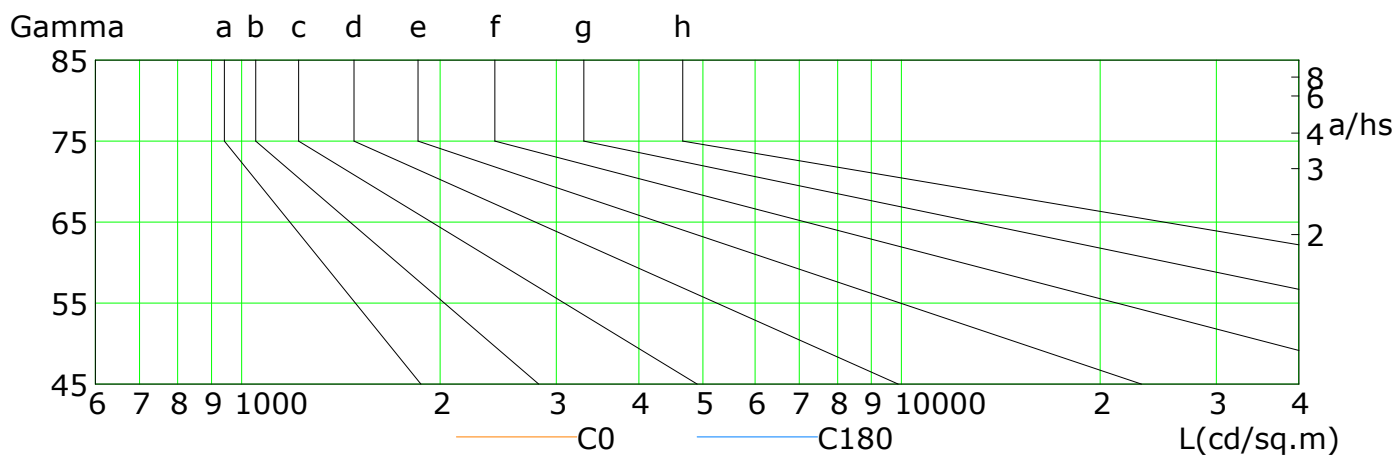
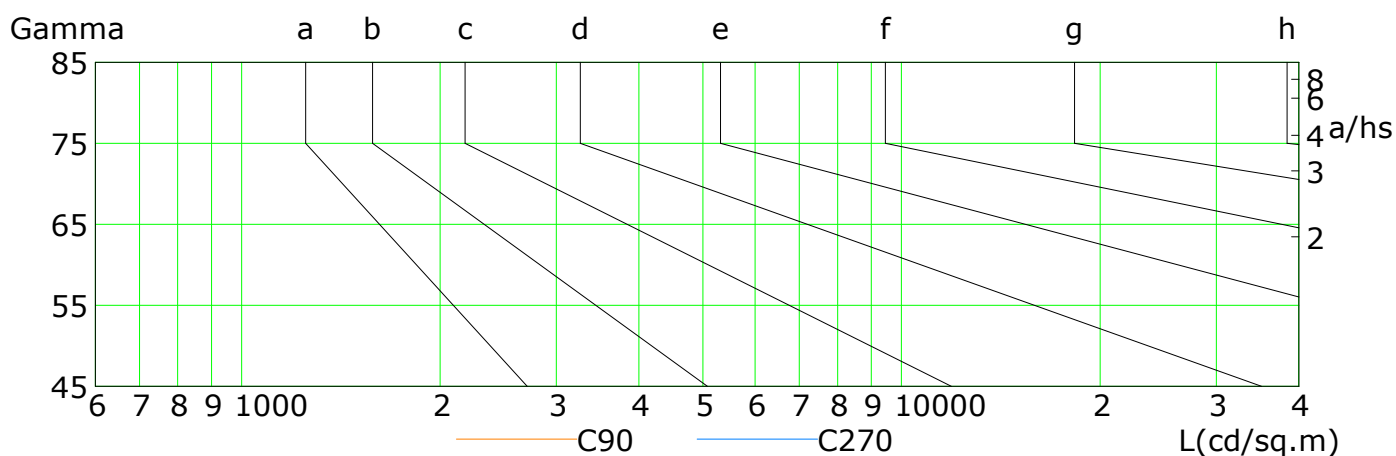
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 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

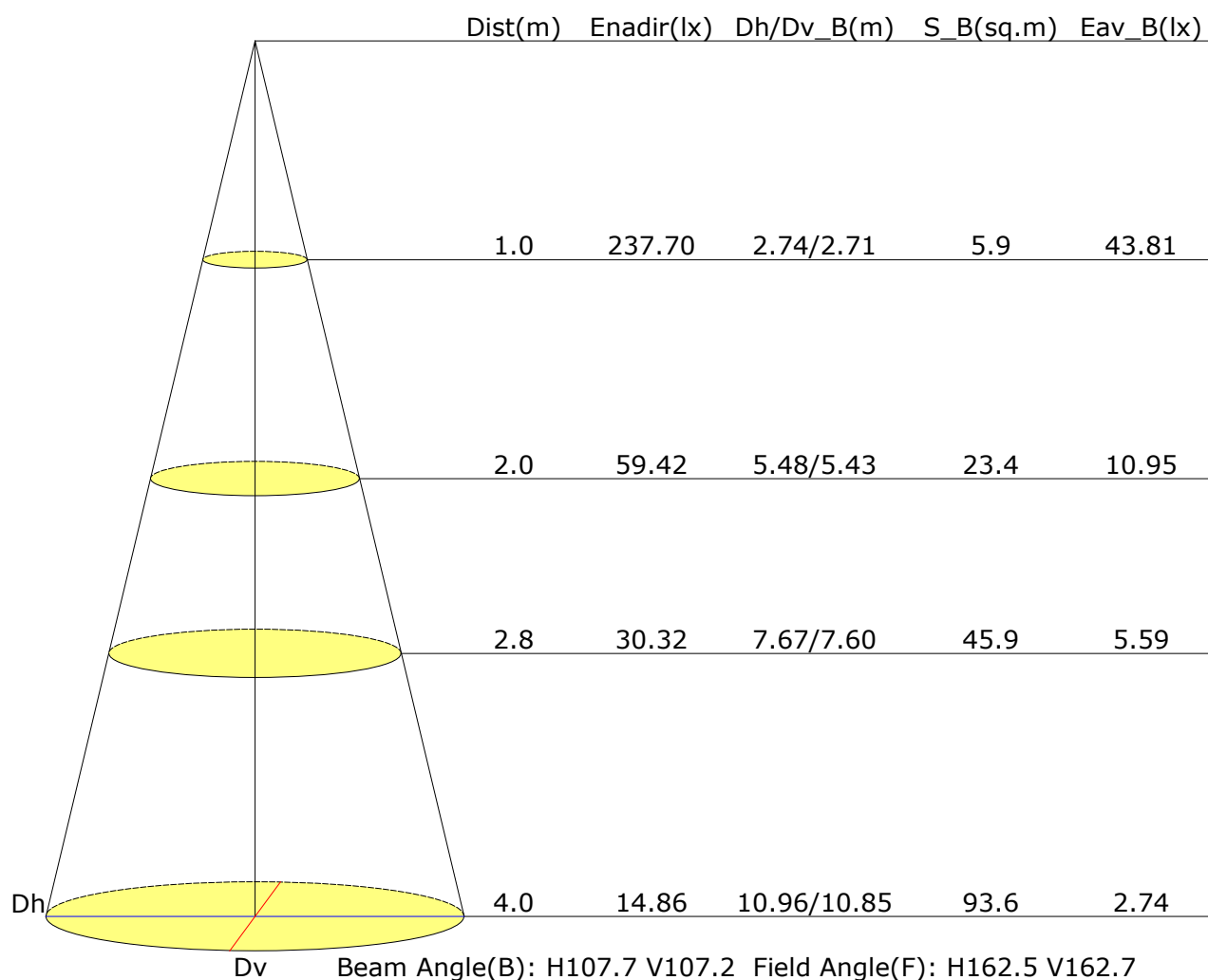


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	148	131	114	97	79	61	44	27	11
C90	148	132	114	97	80	62	45	28	12
C180	149	133	116	98	81	63	46	29	13
C270	147	131	113	96	79	61	44	28	12

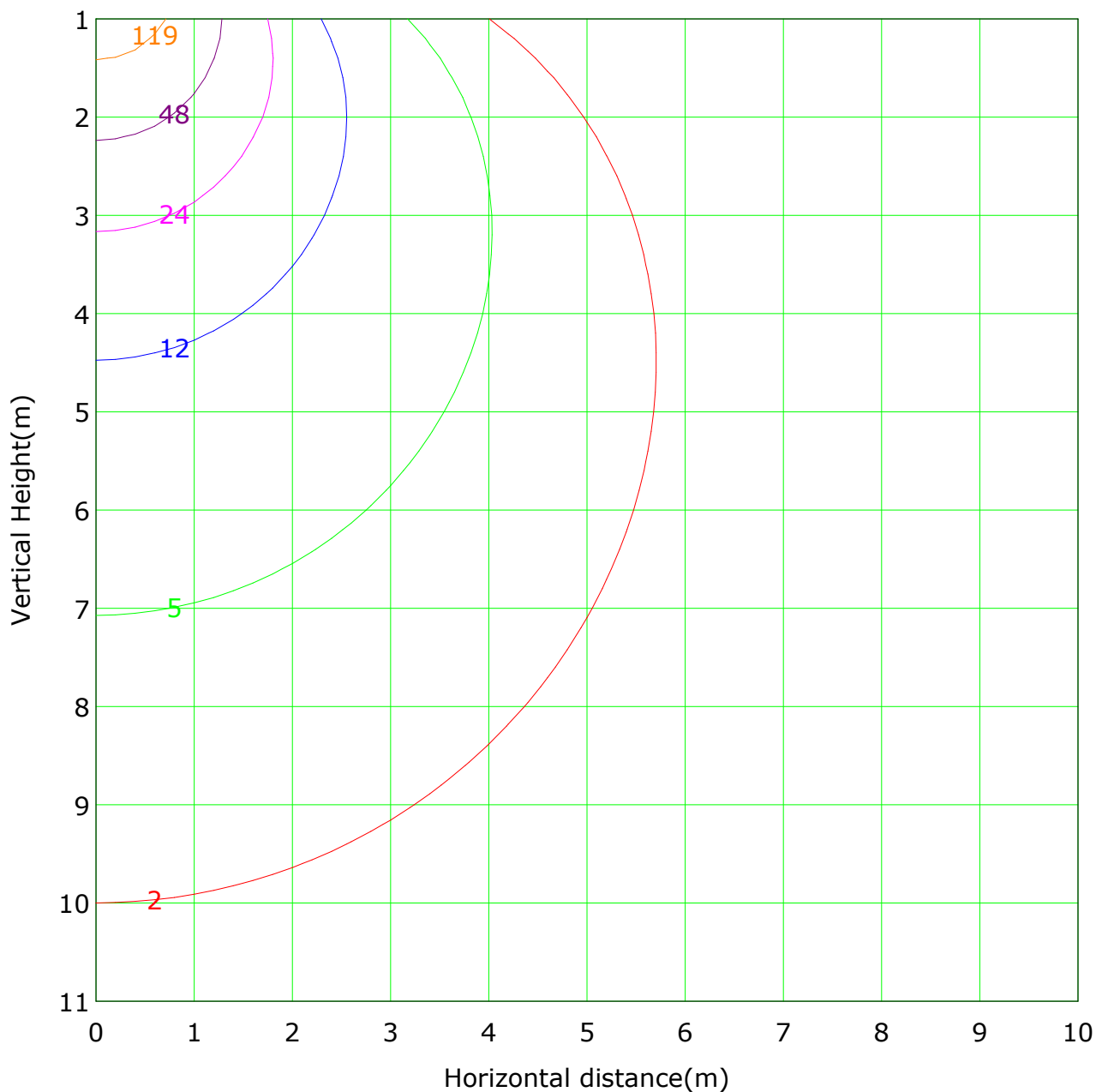
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 237.7 lx

— (1%): 2.4 lx	— (2%): 4.8 lx
— (5%): 11.9 lx	— (10%): 23.8 lx
— (20%): 47.5 lx	— (50%): 118.8 lx
— (100%): 237.7 lx	

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

Report No.:

Test Time: 10/10/2024 12:32

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-SL17-03+LLP-03-FW

Lamp Description: F52-40s-120DF2 95cm

Number of Lamps: 1

Lumens per Lamp: 839

Voltage: 24.0 V

Current: 0.346 A

Power: 8.29 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 545.2 lm

Downward Ratio: 64.81%

Total Rated Lamp Lumens: 839.0 lm

Efficiency: 64.98%

Upward Ratio: 0.17%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.0, 164.1, 164.1, 164.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.7, 114.1, 114.0, 113.9

Luminaire Efficacy Rating (LER): 65.82

Central Intensity: 186.07 cd

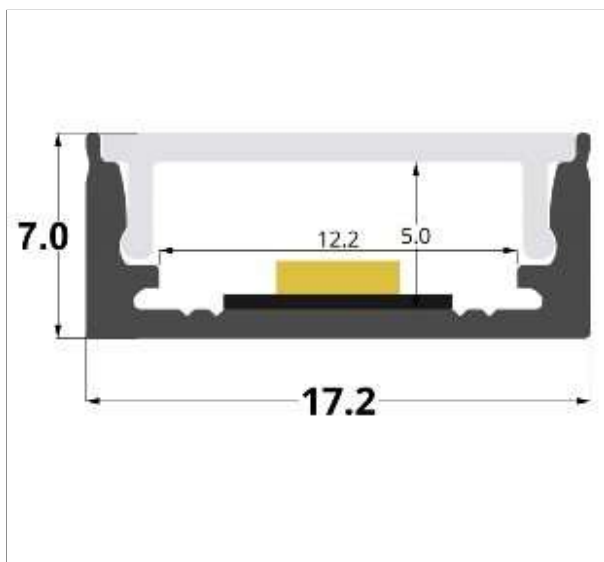
Max. Intensity: 186.14 cd

Pos of Max. Intensity: H0 V1

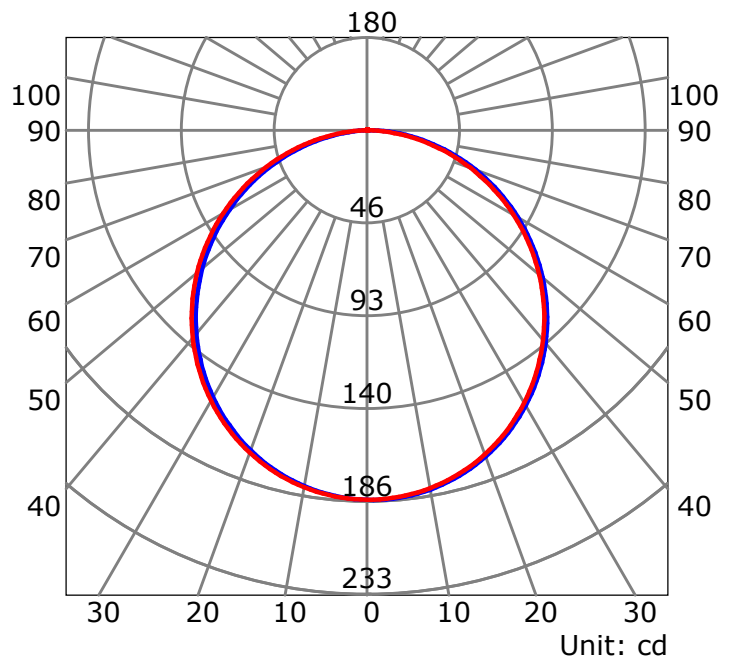
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

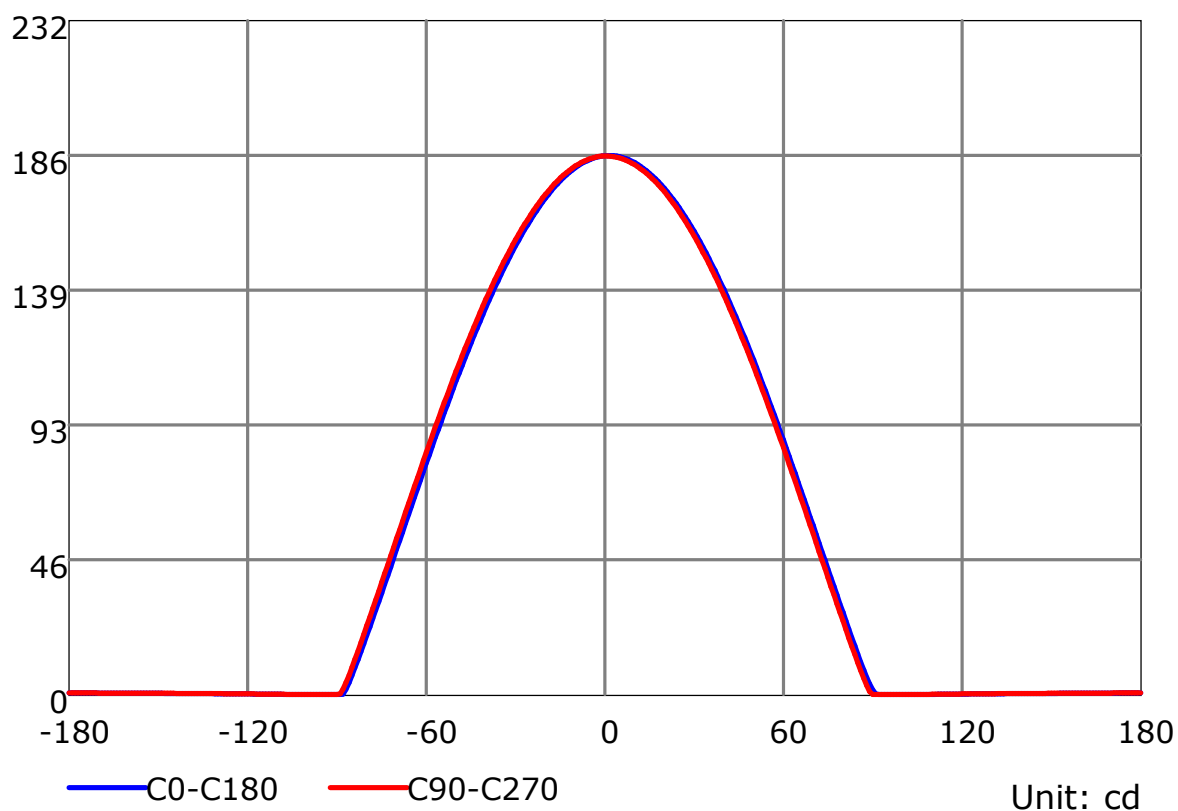
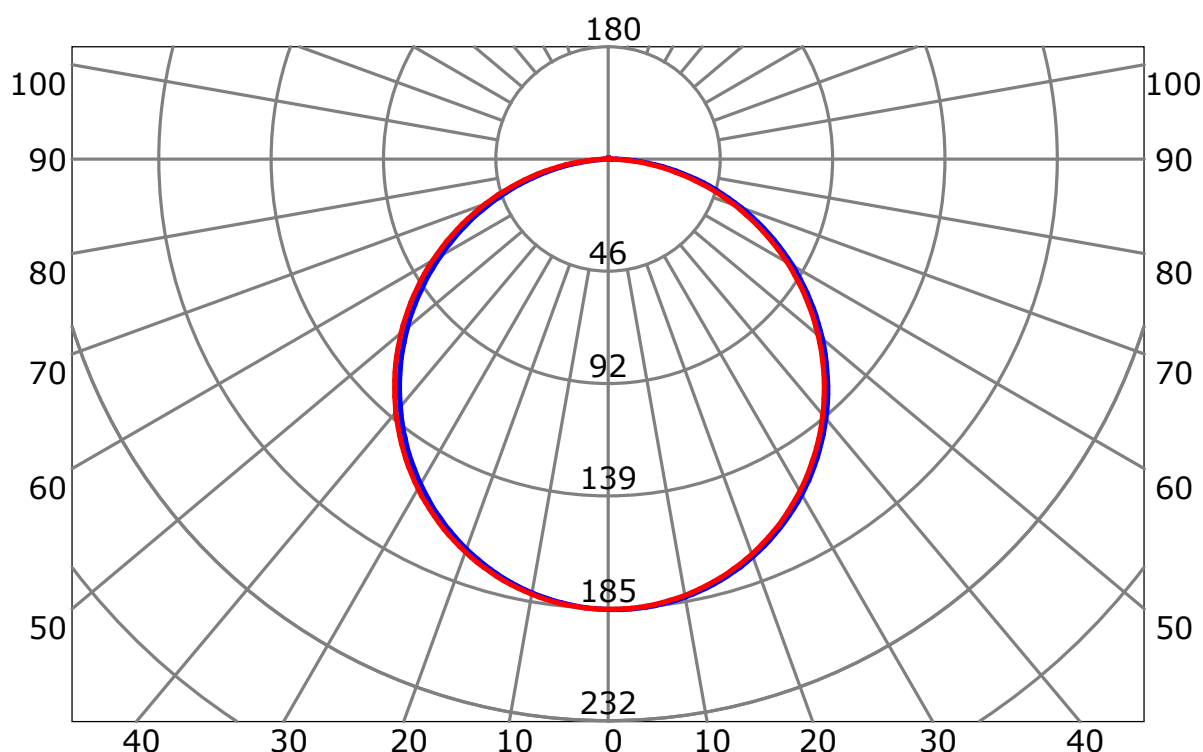
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

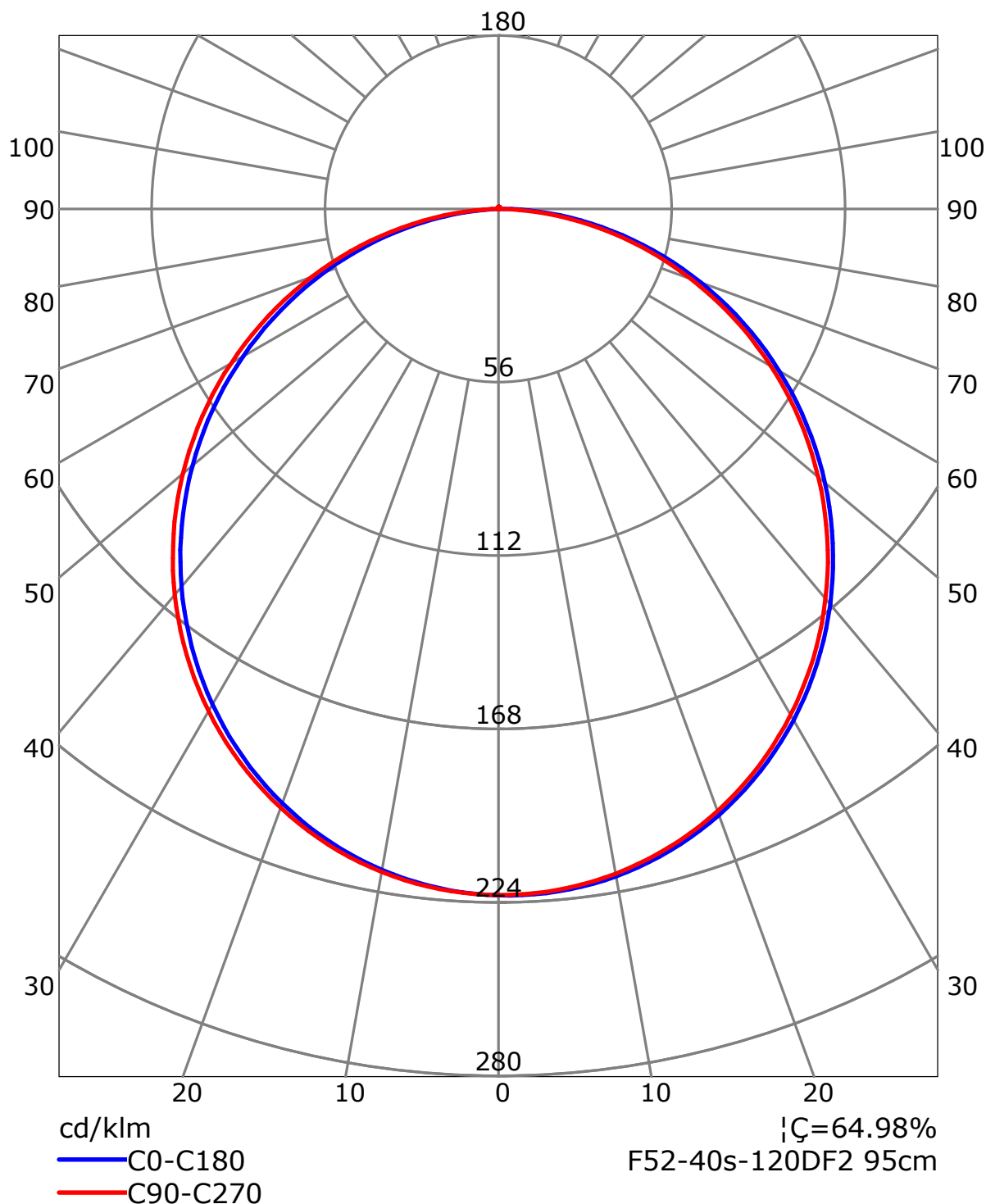
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.792 m
 Humidity:
 Inspector:

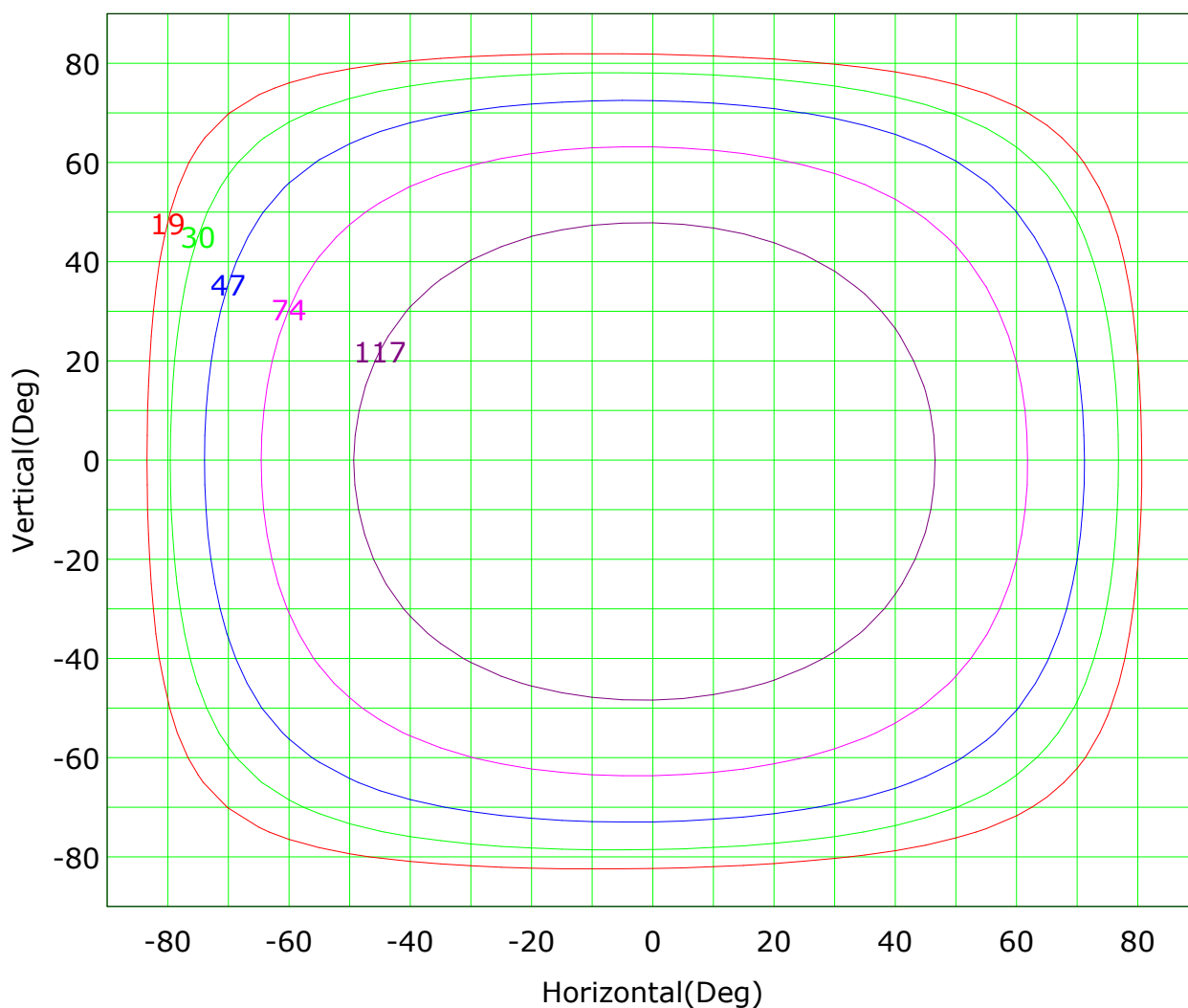
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.792 m
 Humidity:
 Inspector:

Isocandela (rectangle)



Imax (100%): 186 cd

(10%):	19 cd	(16%):	30 cd
(25%):	47 cd	(40%):	74 cd
(63%):	117 cd	(100%):	186 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

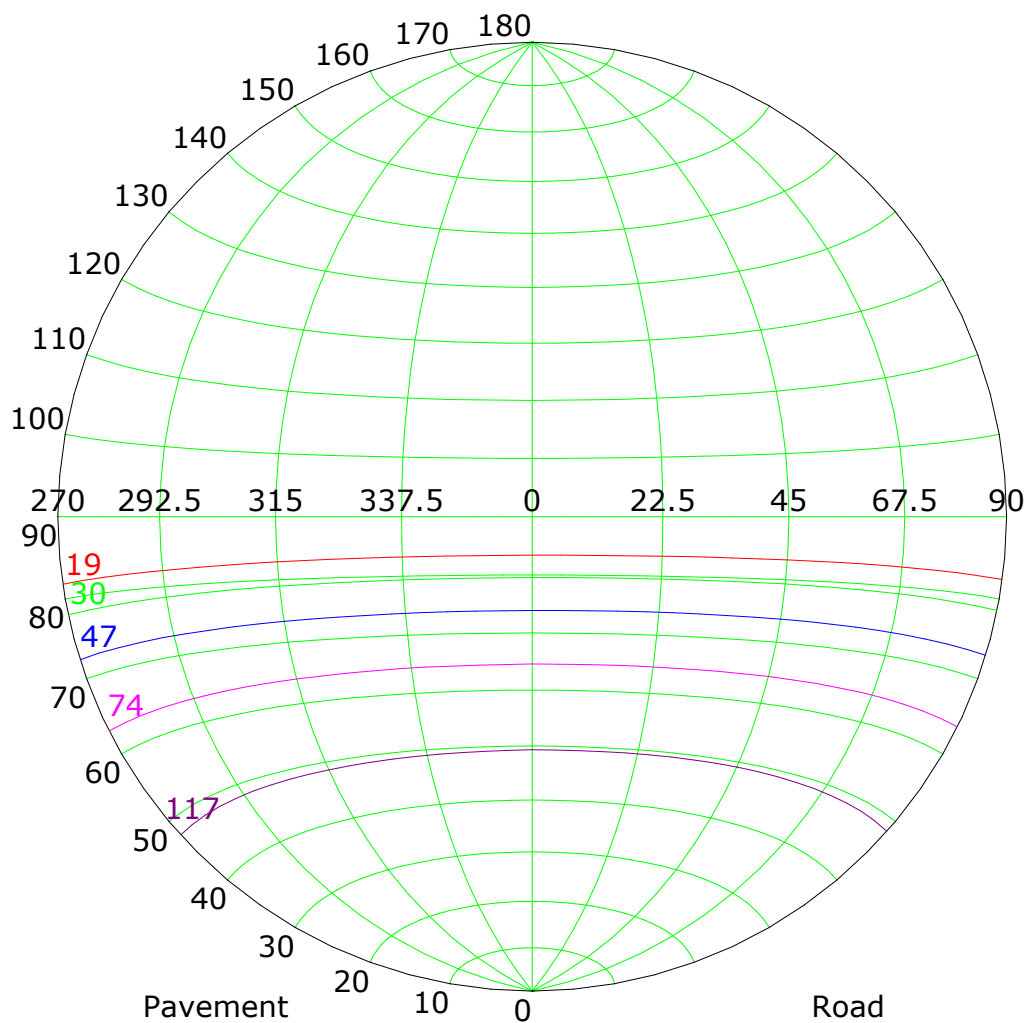
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 186 cd

(10%):	19 cd	(16%):	30 cd
(25%):	47 cd	(40%):	74 cd
(63%):	117 cd	(100%):	186 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

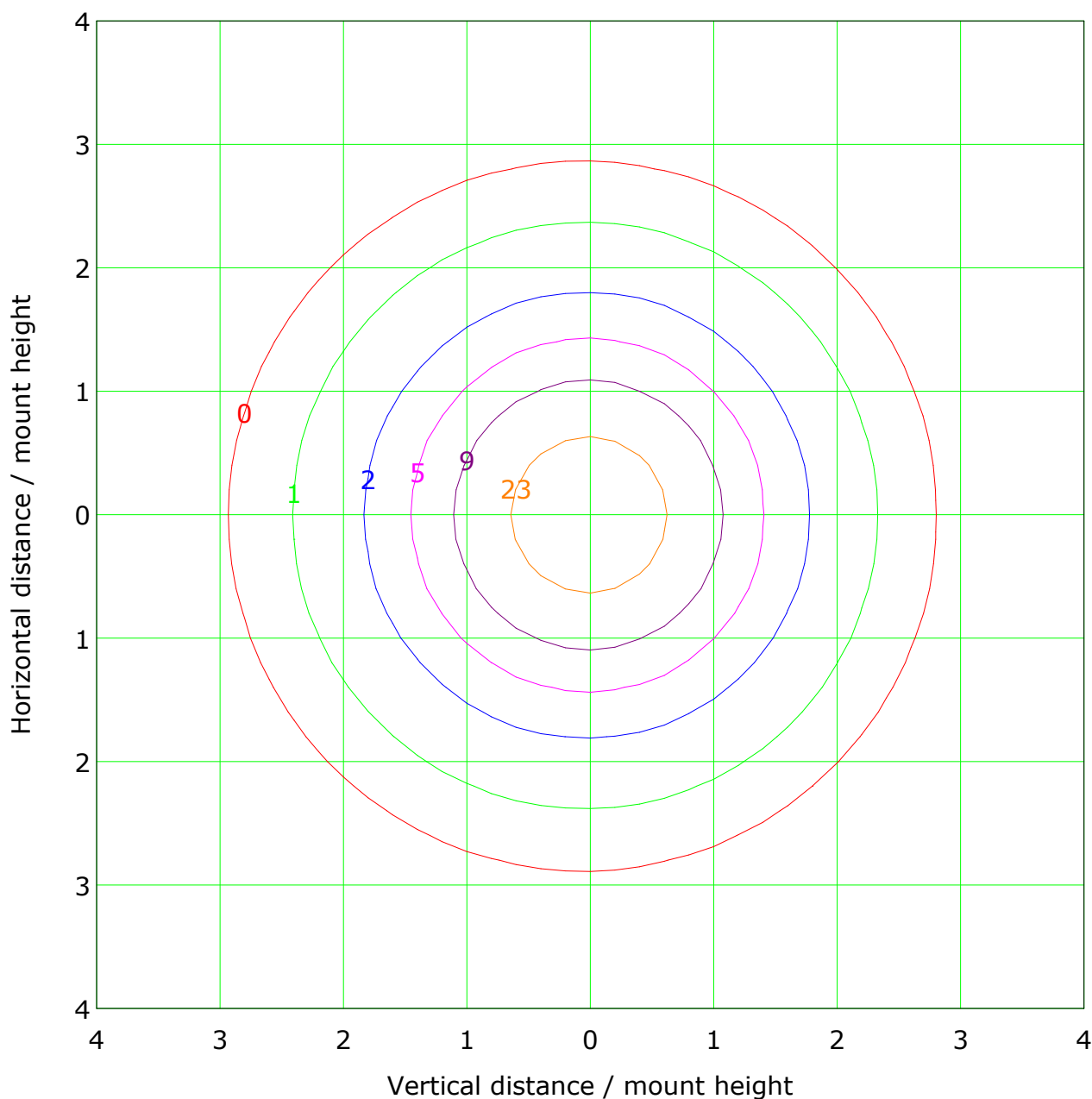
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 46.5 lx	
— (1%):	0.5 lx	— (2%):	0.9 lx
— (5%):	2.3 lx	— (10%):	4.7 lx
— (20%):	9.3 lx	— (50%):	23.3 lx
— (100%):	46.5 lx		

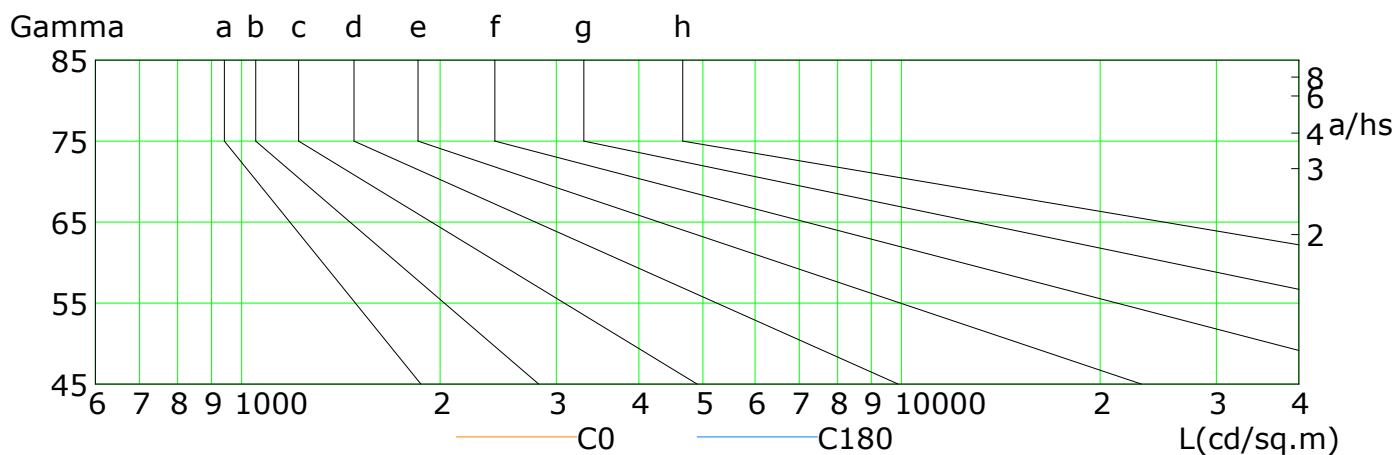
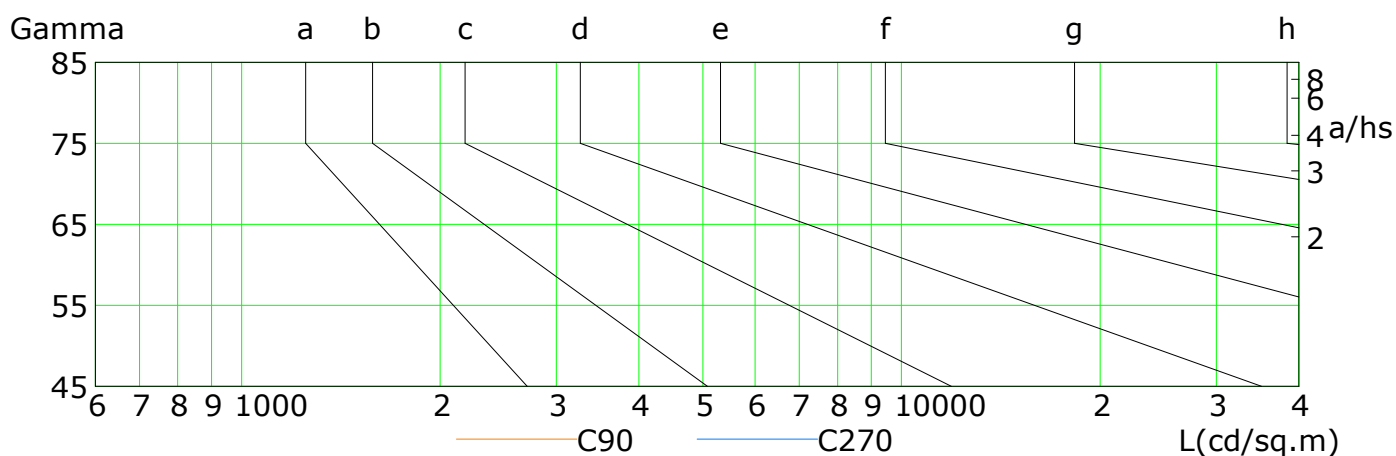
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.792 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

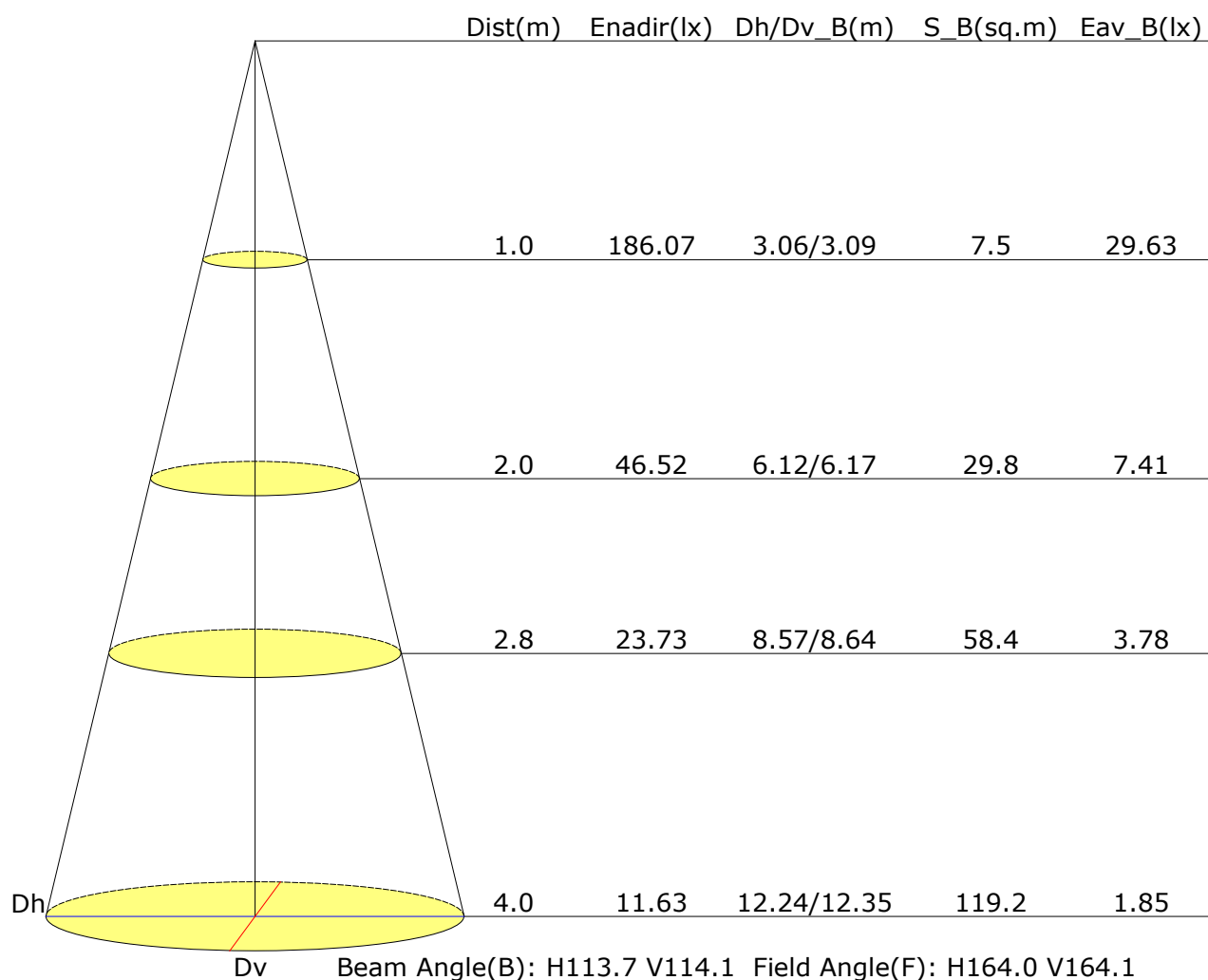


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	128	116	102	88	73	58	43	28	14
C90	126	113	100	85	71	56	40	26	11
C180	121	108	94	80	65	50	35	21	7
C270	125	112	98	84	69	54	39	24	9

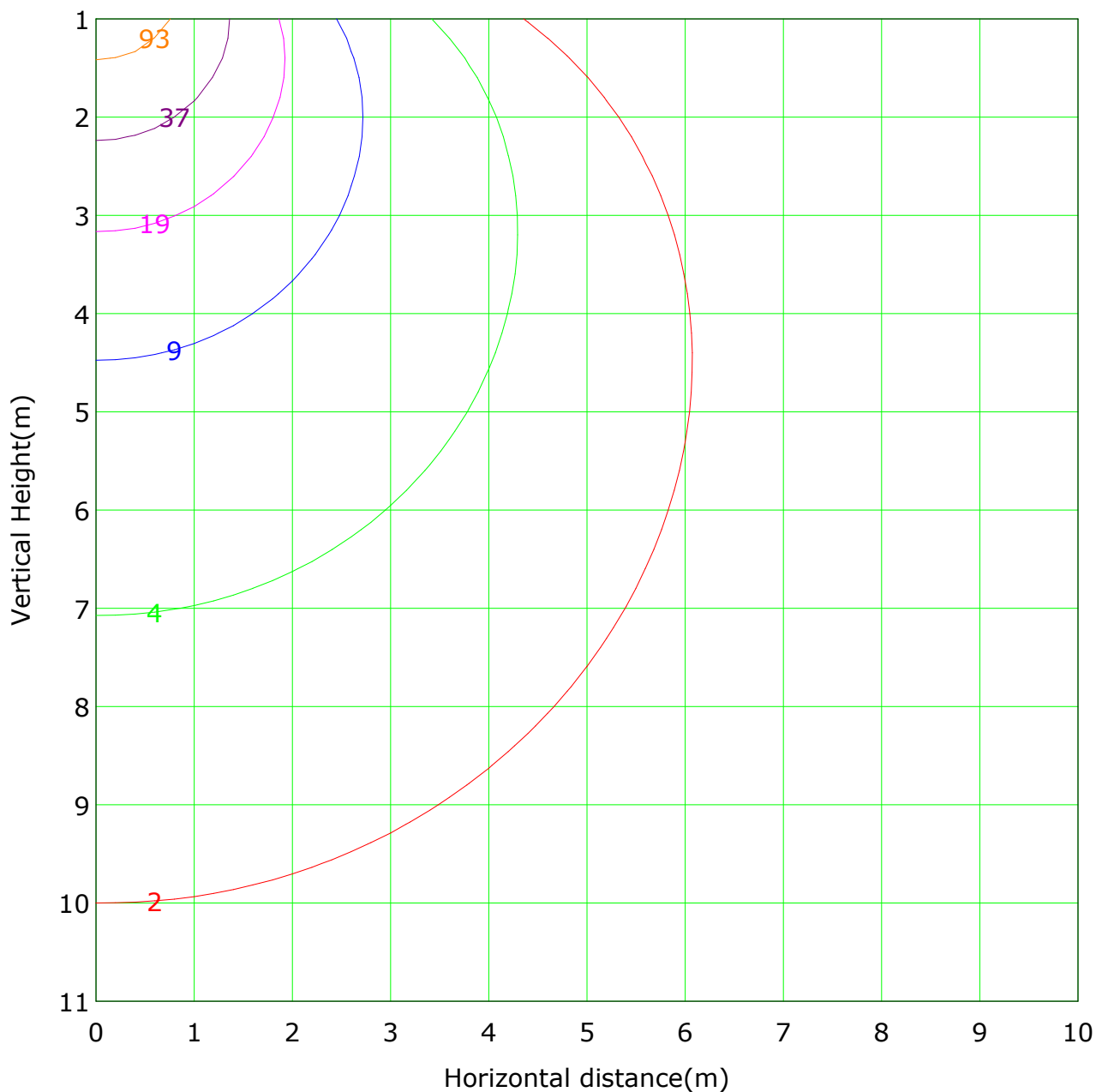
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 186.1 lx

(1%): 1.9 lx	(2%): 3.7 lx
(5%): 9.3 lx	(10%): 18.6 lx
(20%): 37.2 lx	(50%): 93.0 lx
(100%): 186.1 lx	

Report No.:

Test Time: 10/10/2024 11:42

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-SL17-03+LLP-03-FB

Lamp Description: F52-40s-120DF2 95cm

Number of Lamps: 1

Lumens per Lamp: 839

Voltage: 24.0 V

Current: 0.345 A

Power: 8.28 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 116 lm

Downward Ratio: 13.83%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 145.9, 146.5, 146.6, 180.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 83.3, 85.8, 85.5, 180.0

Luminaire Efficacy Rating (LER): 14.06

Central Intensity: 76.88 cd

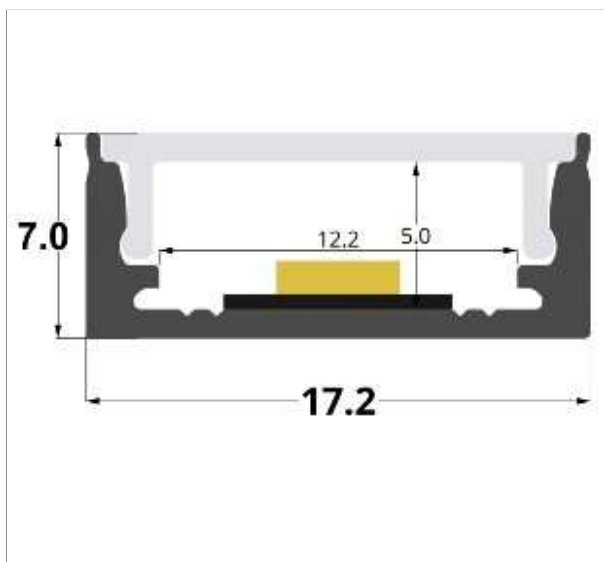
Max. Intensity: 76.88 cd

Pos of Max. Intensity: H0 V0

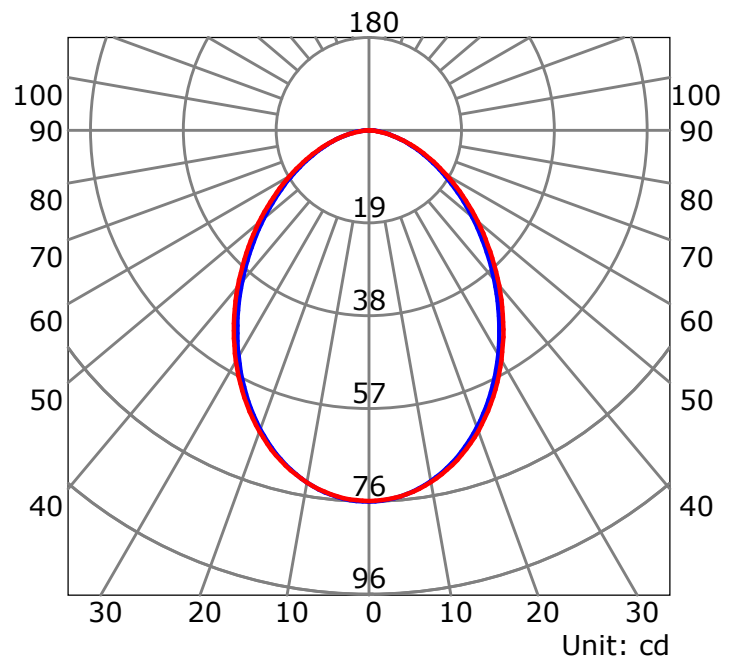
S/MH(C0/C180): 1.07

S/MH(C90/C270): 1.09

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

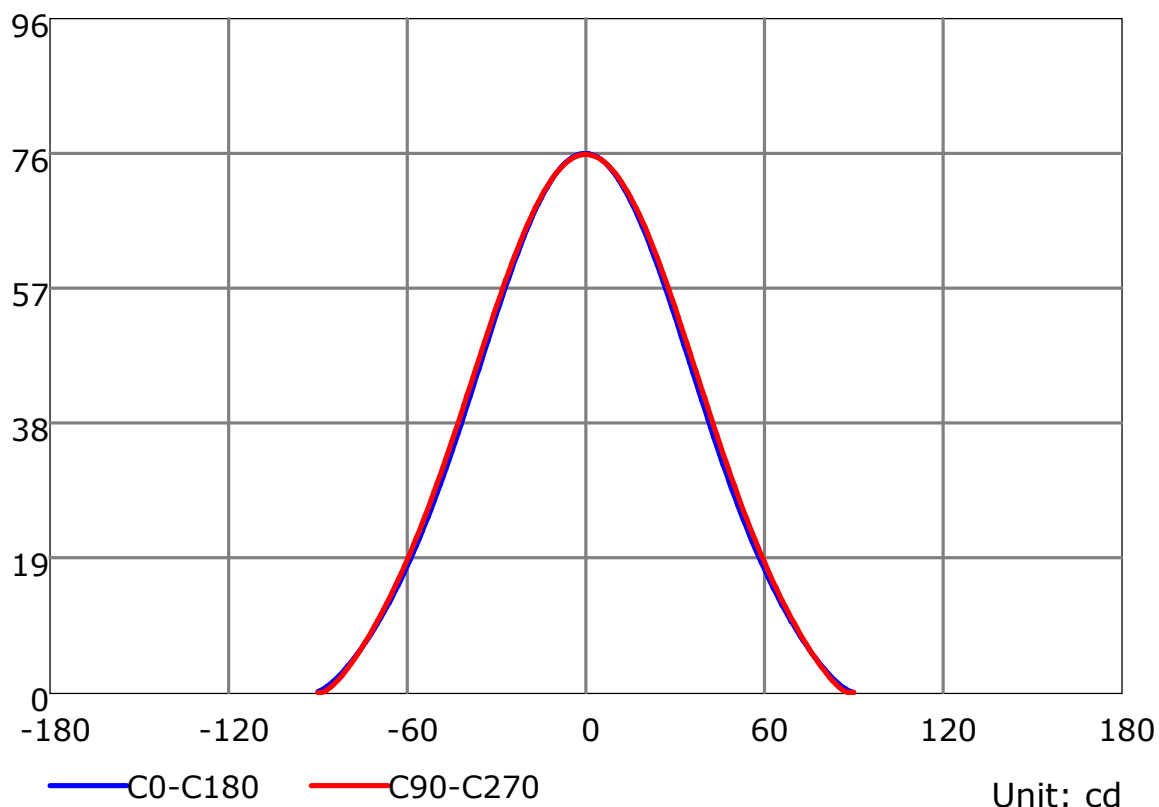
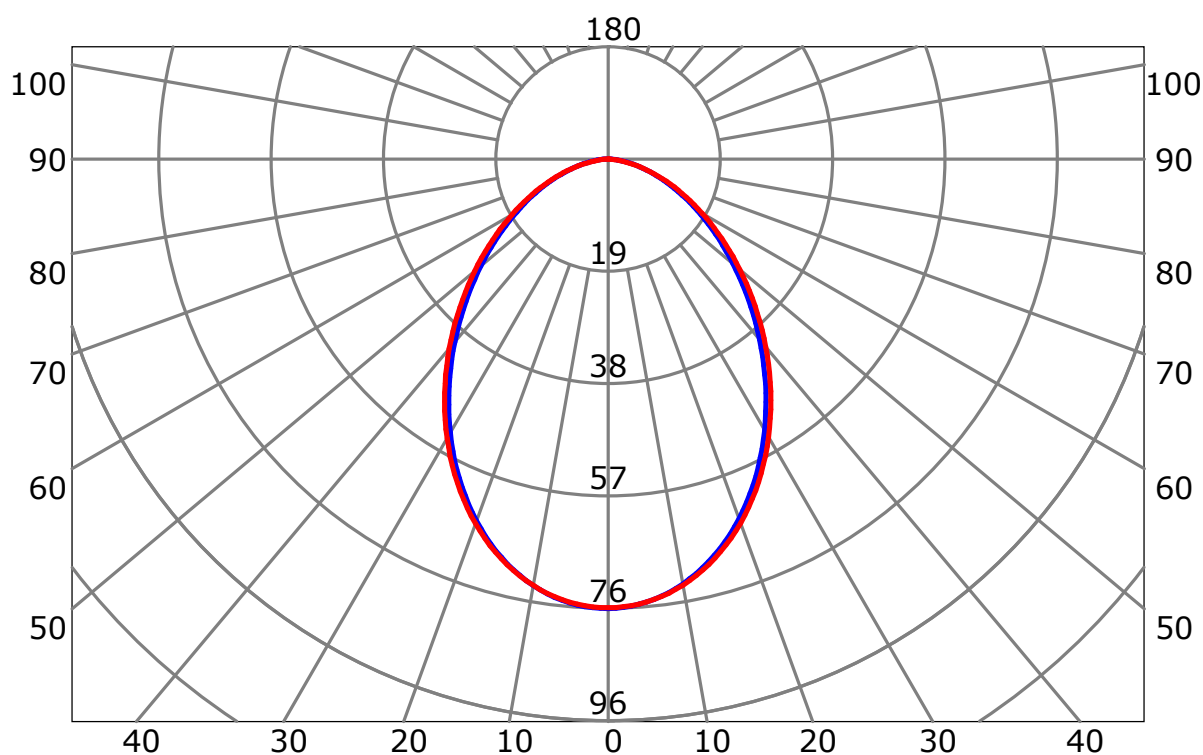
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

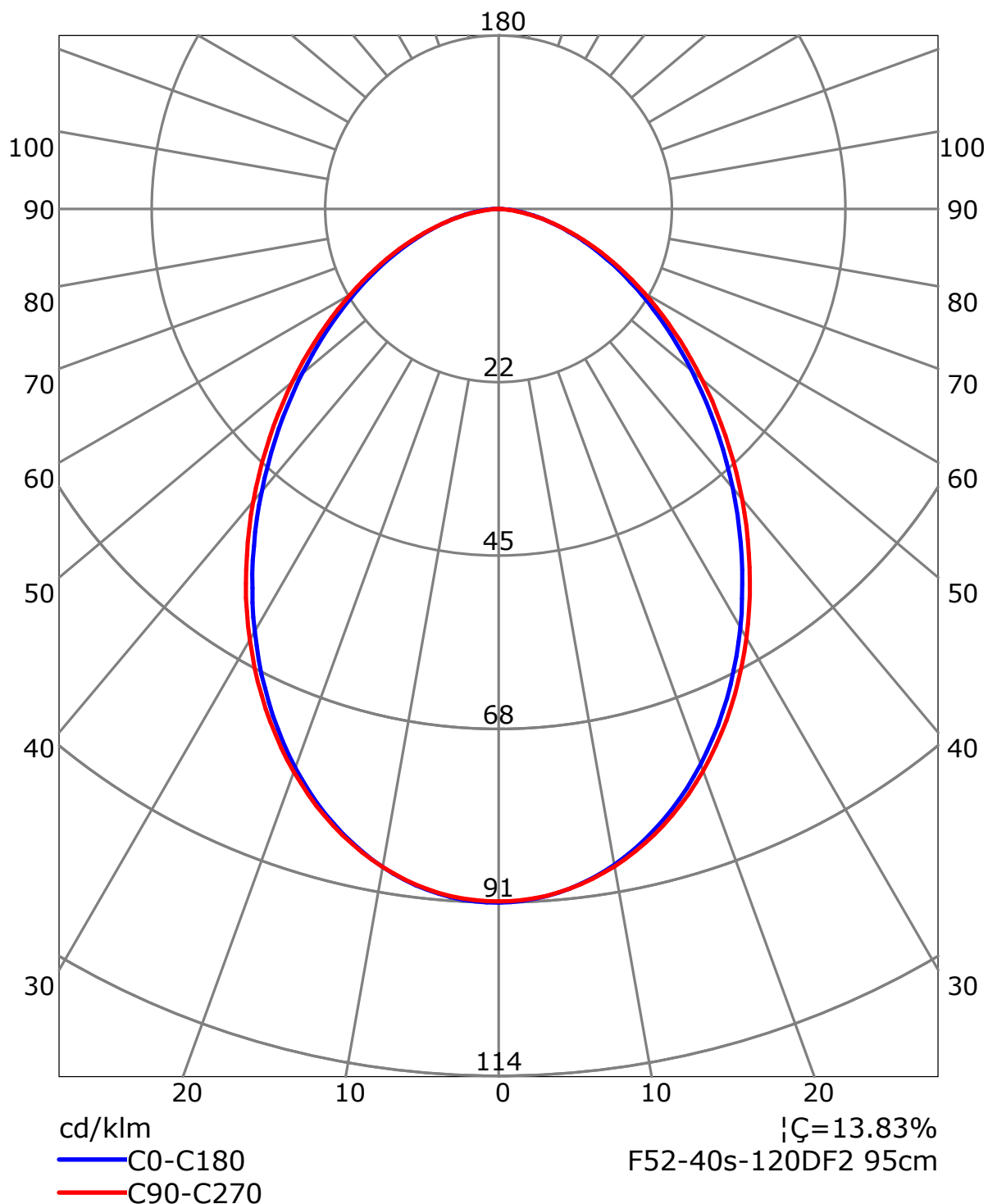


Unit: cd

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

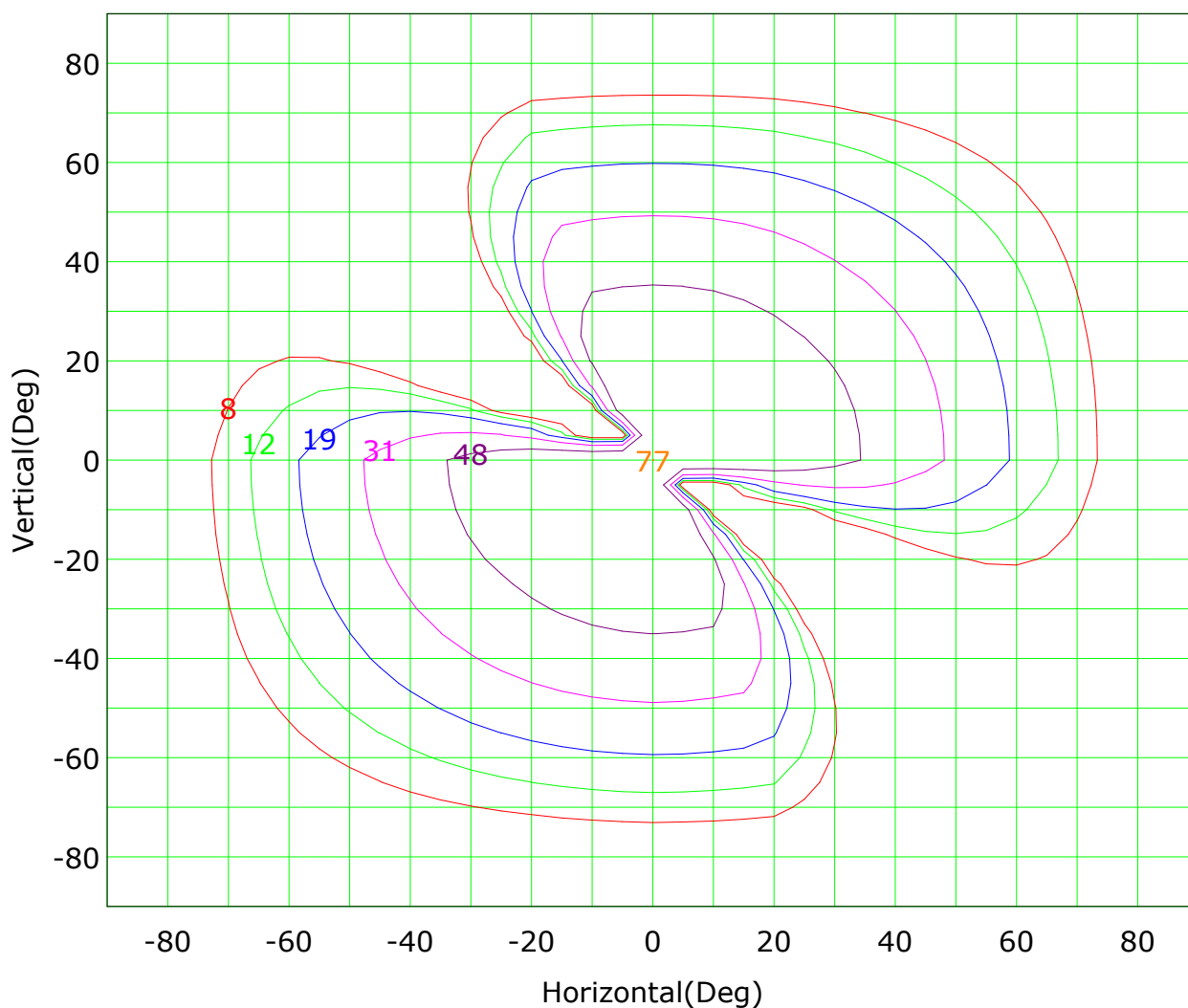
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 77 cd

(10%):	8 cd	(16%):	12 cd
(25%):	19 cd	(40%):	31 cd
(63%):	48 cd	(100%):	77 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

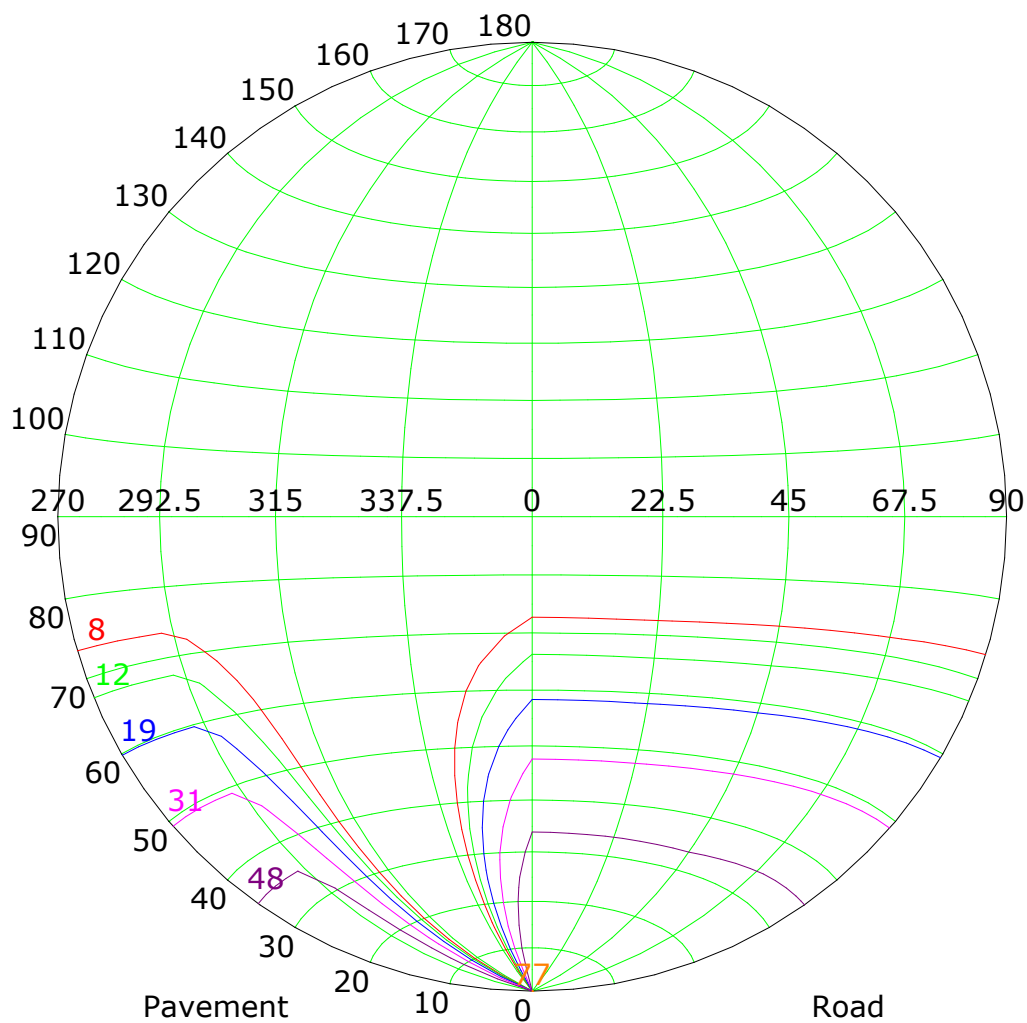
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 77 cd

(10%):	8 cd	(16%):	12 cd
(25%):	19 cd	(40%):	31 cd
(63%):	48 cd	(100%):	77 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

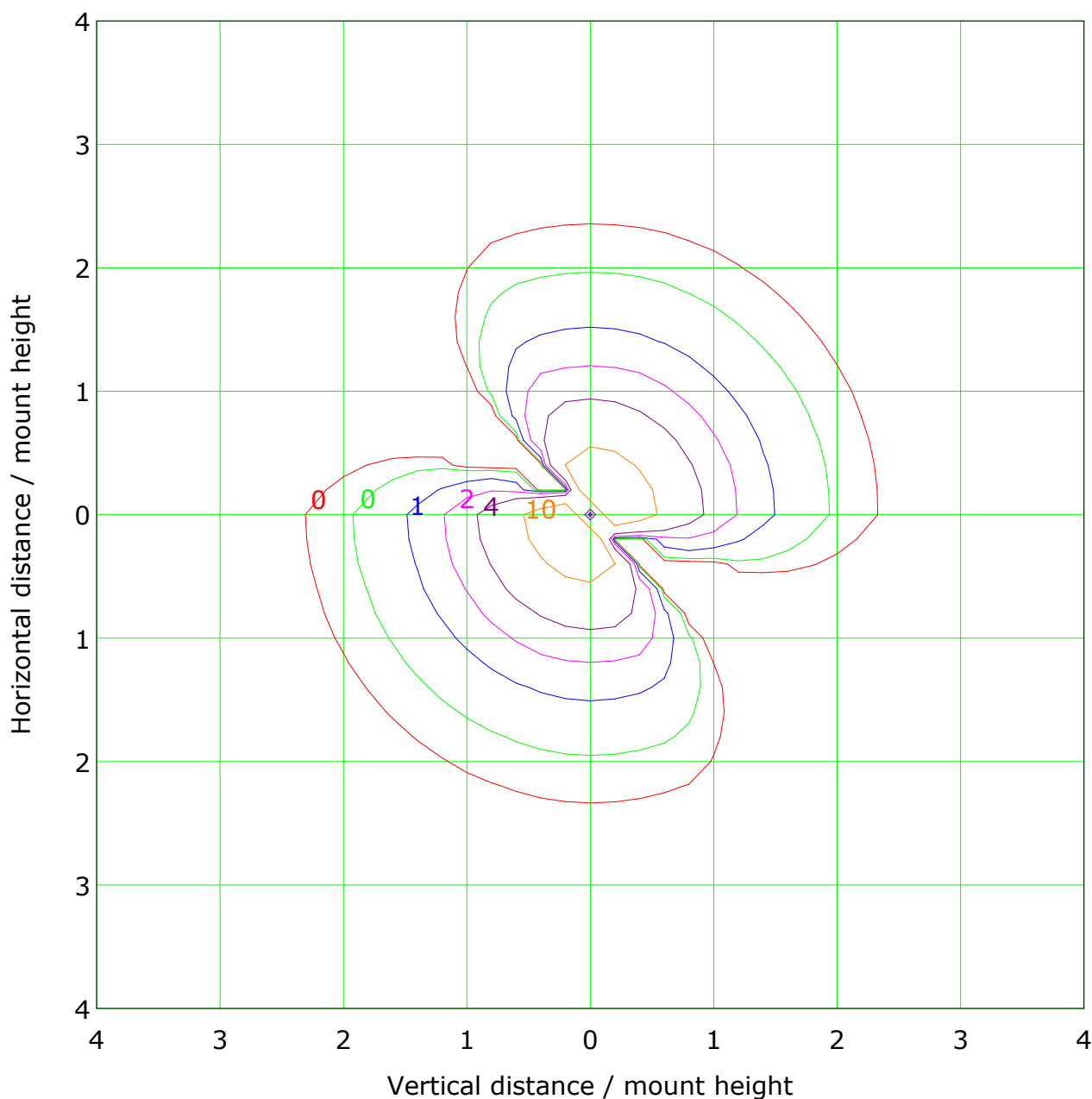
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 19.2 lx	
(1%):	0.2 lx	(2%):	0.4 lx
(5%):	1.0 lx	(10%):	1.9 lx
(20%):	3.8 lx	(50%):	9.6 lx
(100%):	19.2 lx		

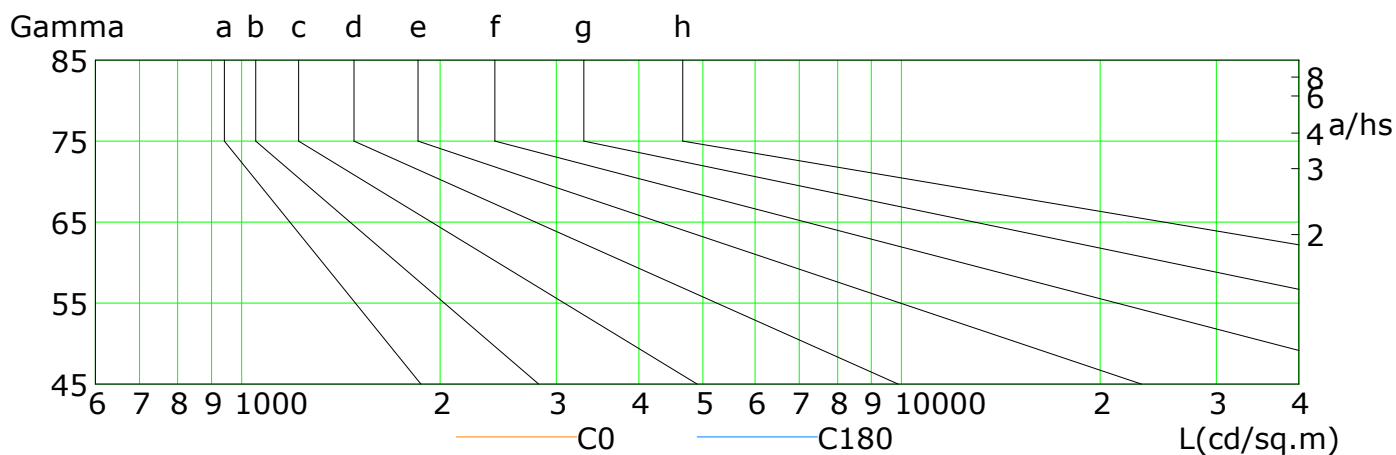
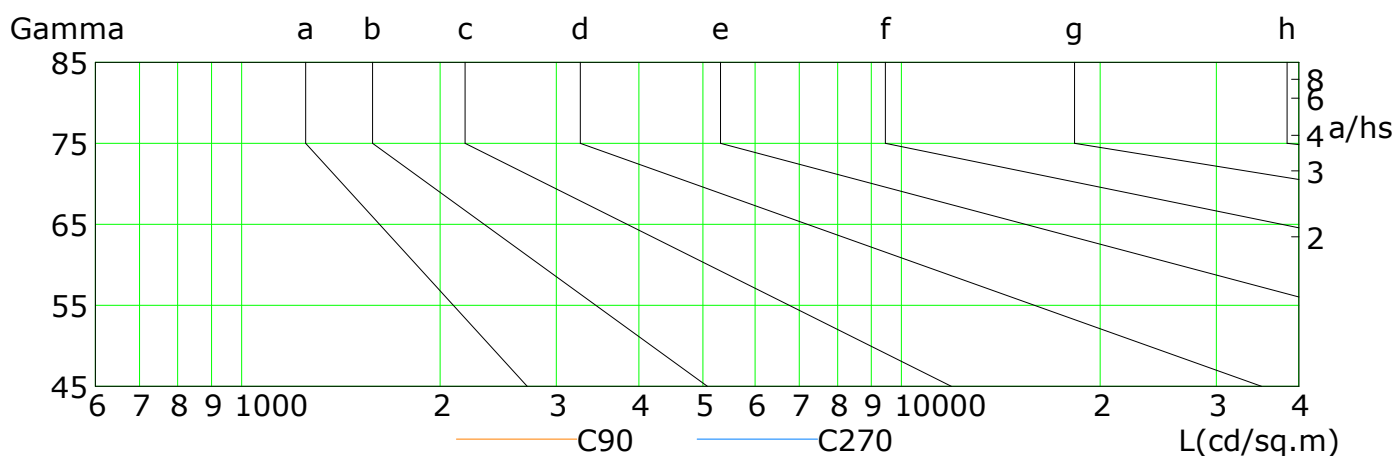
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 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

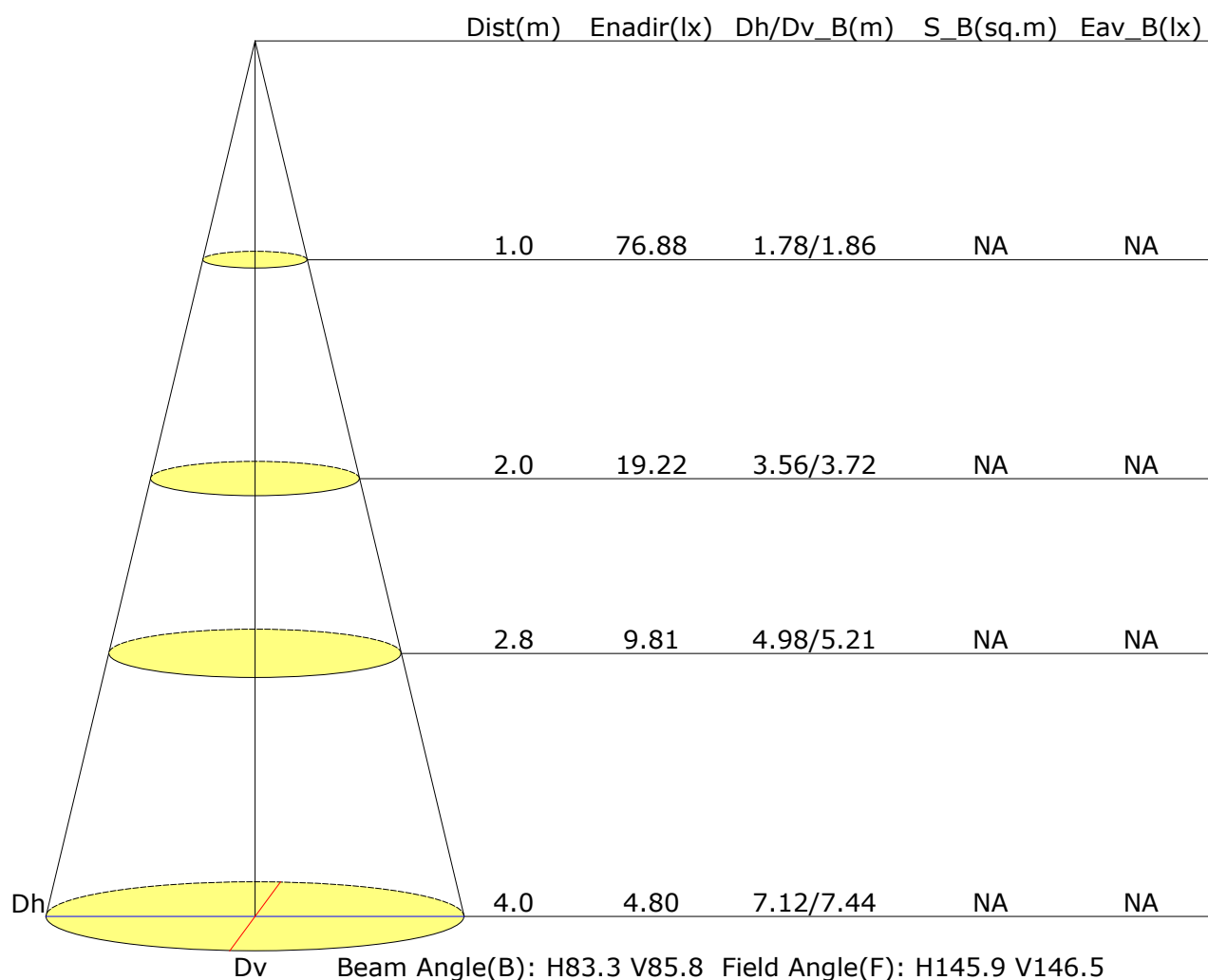


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	34	28	22	18	13	10	6	3	1
C90	36	29	24	19	14	10	6	3	1
C180	34	28	23	18	14	10	7	4	2
C270	36	30	24	19	14	10	7	3	1

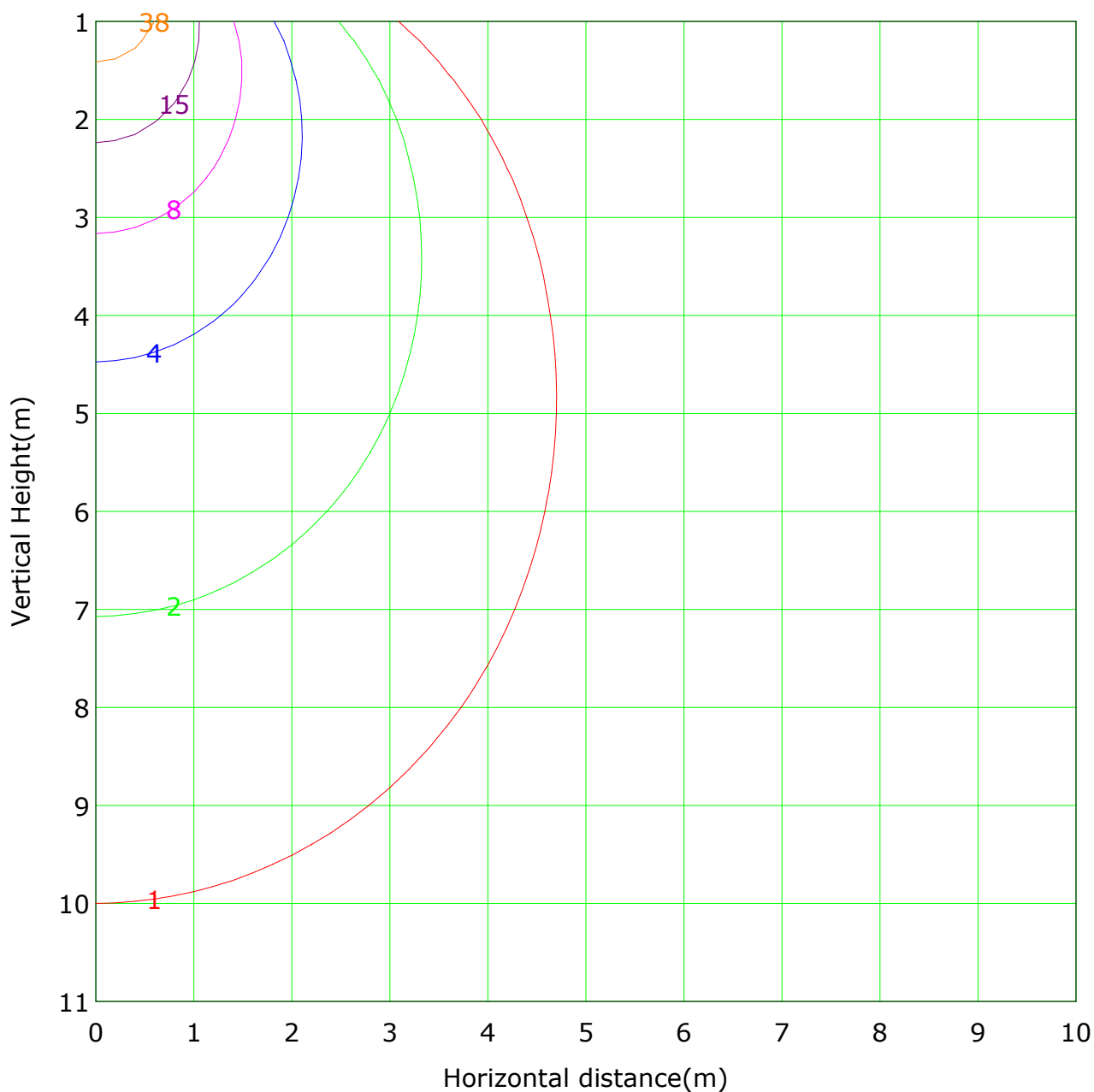
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 76.9 lx

(1%): 0.8 lx	(2%): 1.5 lx
(5%): 3.8 lx	(10%): 7.7 lx
(20%): 15.4 lx	(50%): 38.4 lx
(100%): 76.9 lx	

Report No.:

Test Time: 09/10/2024 14:37

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-SL17-03+LLP-03-XK

Lamp Description: F52-40s-120DF2 95cm

Number of Lamps: 1

Lumens per Lamp: 839

Voltage: 24.0 V

Current: 0.345 A

Power: 8.28 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 813.3 lm

Downward Ratio: 96.94%

Total Rated Lamp Lumens: 839.0 lm

Efficiency: 96.94%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 153.9, 134.6, 119.6, 119.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 135.7, 65.9, 77.4, 77.9

Luminaire Efficacy Rating (LER): 98.27

Central Intensity: 409.28 cd

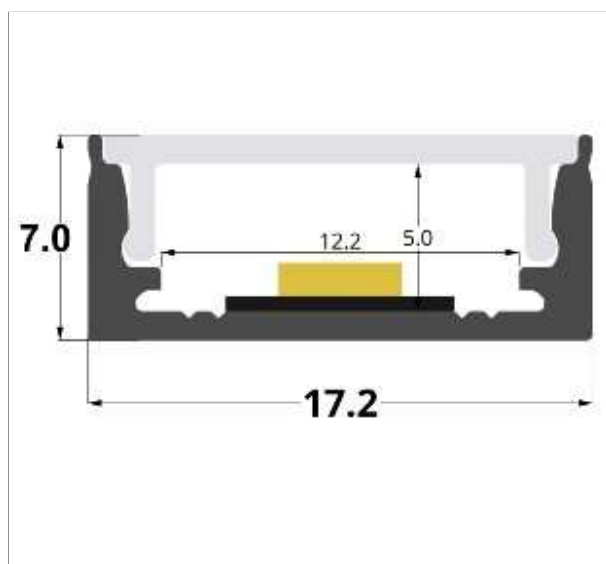
Max. Intensity: 409.71 cd

Pos of Max. Intensity: H202.5 V1

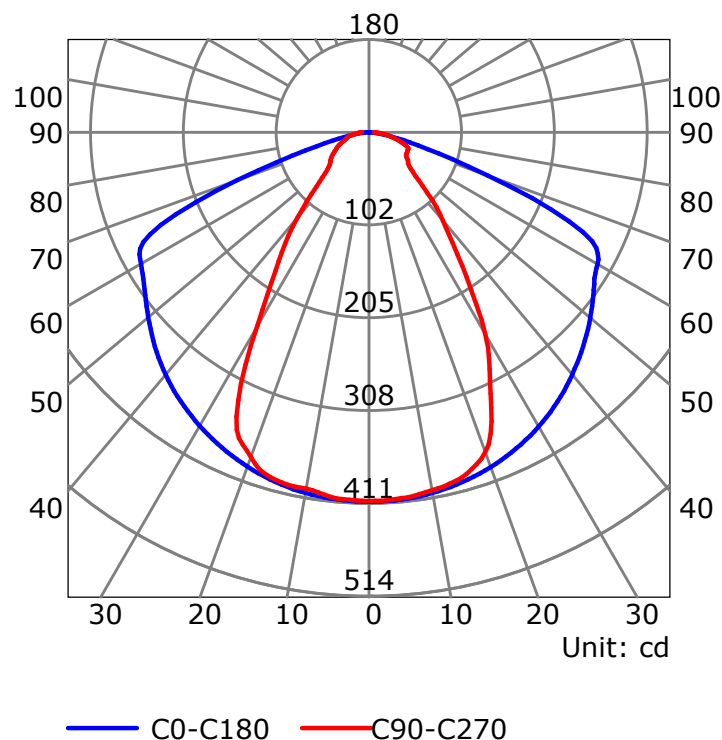
S/MH(C0/C180): 1.37

S/MH(C90/C270): 1.05

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

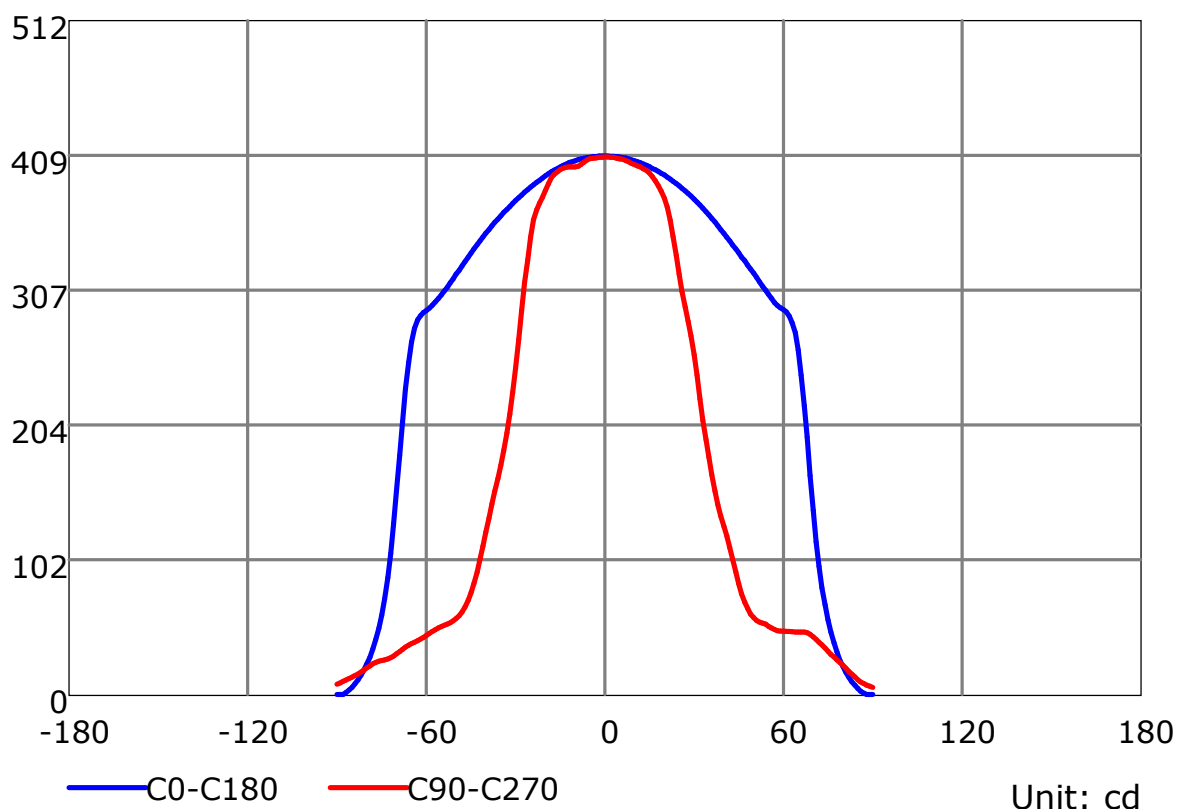
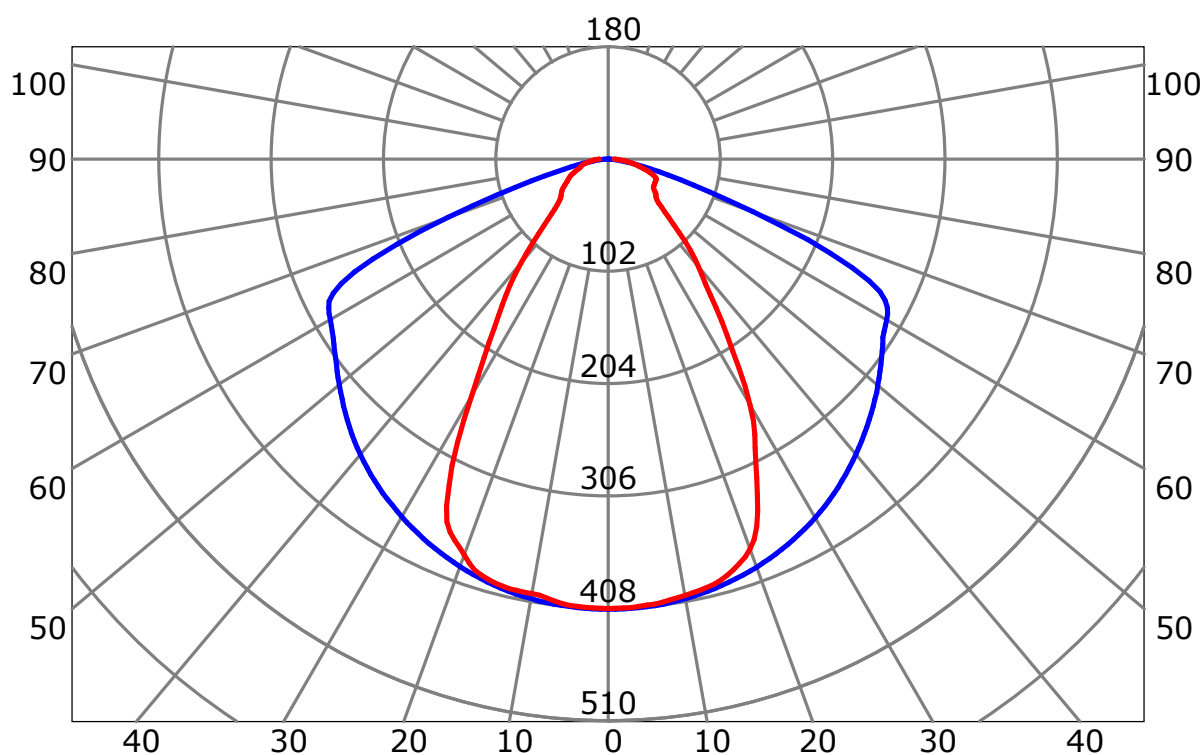
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

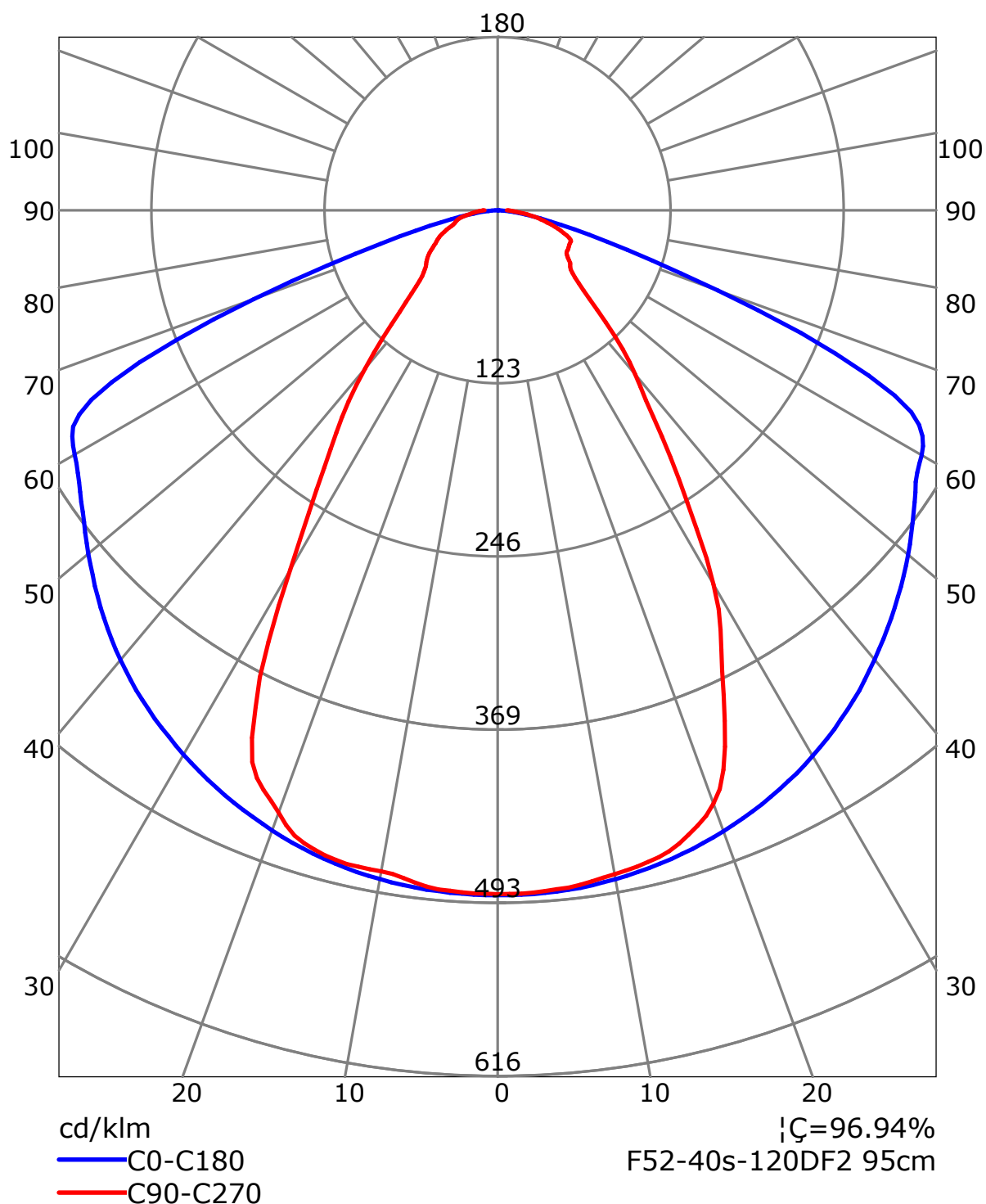


Unit: cd

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

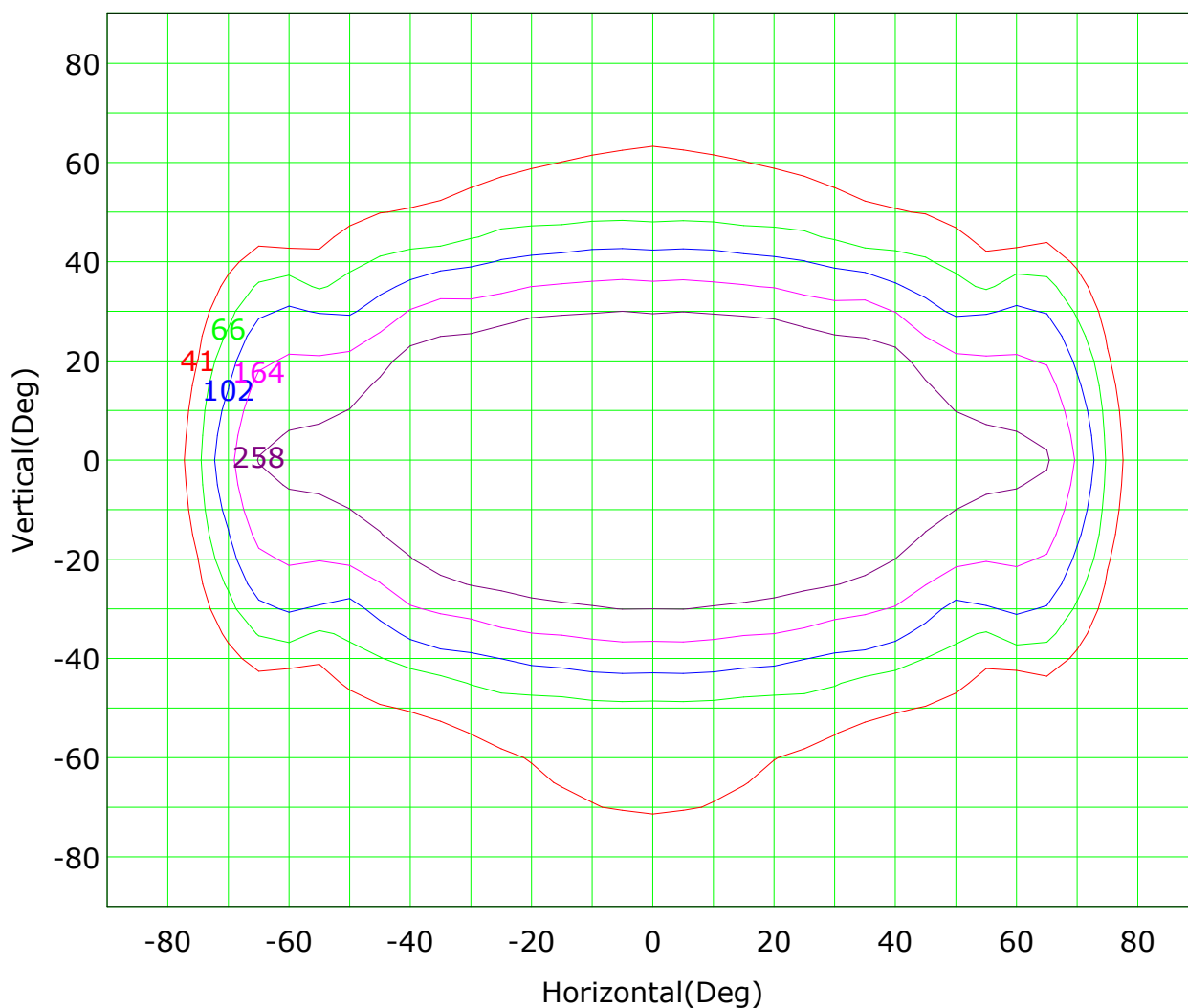
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 7.792 m
 Humidity:
 Inspector:

Isocandela (rectangle)



Imax (100%): 410 cd

(10%):	41 cd	(16%):	66 cd
(25%):	102 cd	(40%):	164 cd
(63%):	258 cd	(100%):	410 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

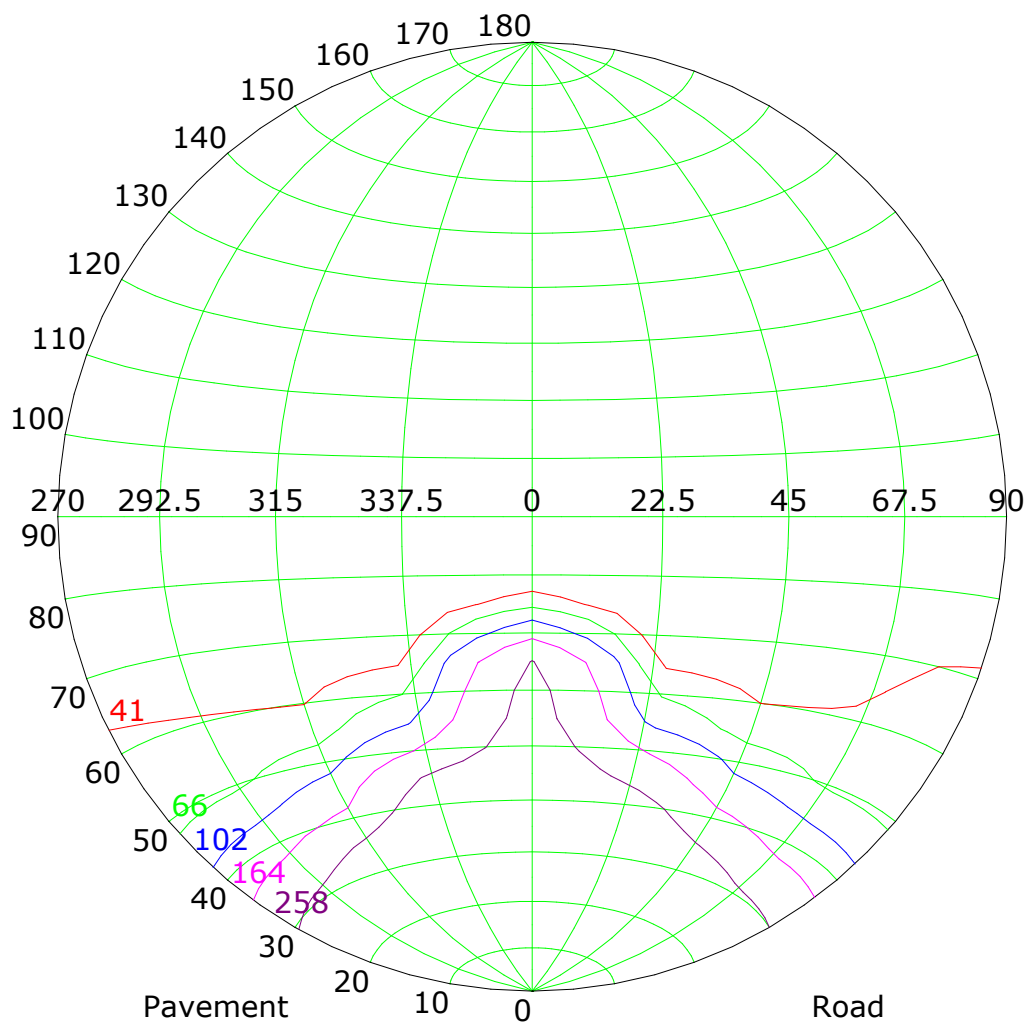
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 410 cd

(10%):	41 cd	(16%):	66 cd
(25%):	102 cd	(40%):	164 cd
(63%):	258 cd	(100%):	410 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

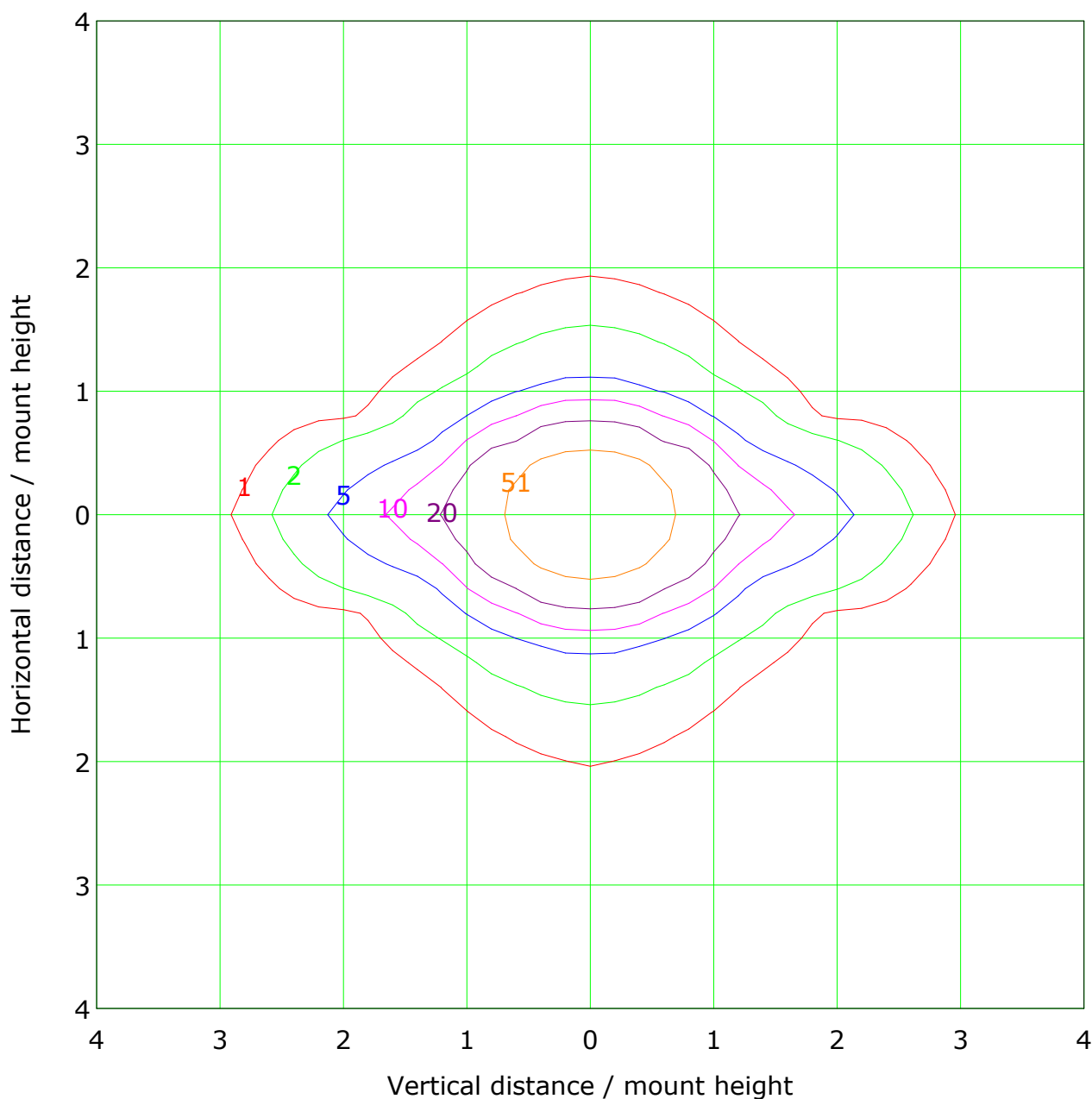
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m Max Lux(100%): 102.4 lx

(1%): 1.0 lx	(2%): 2.0 lx
(5%): 5.1 lx	(10%): 10.2 lx
(20%): 20.5 lx	(50%): 51.2 lx
(100%): 102.4 lx	

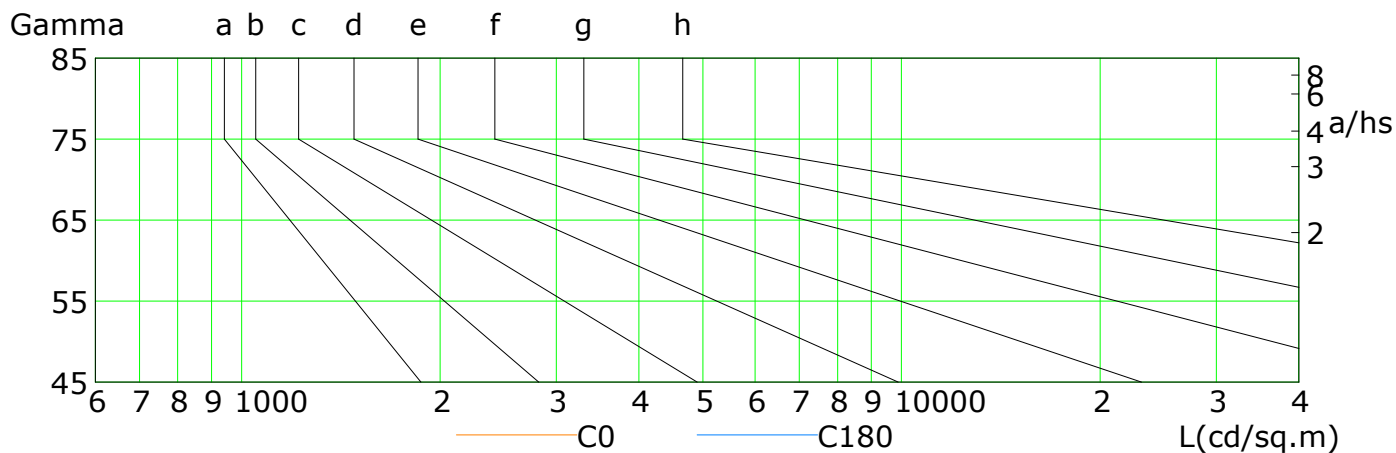
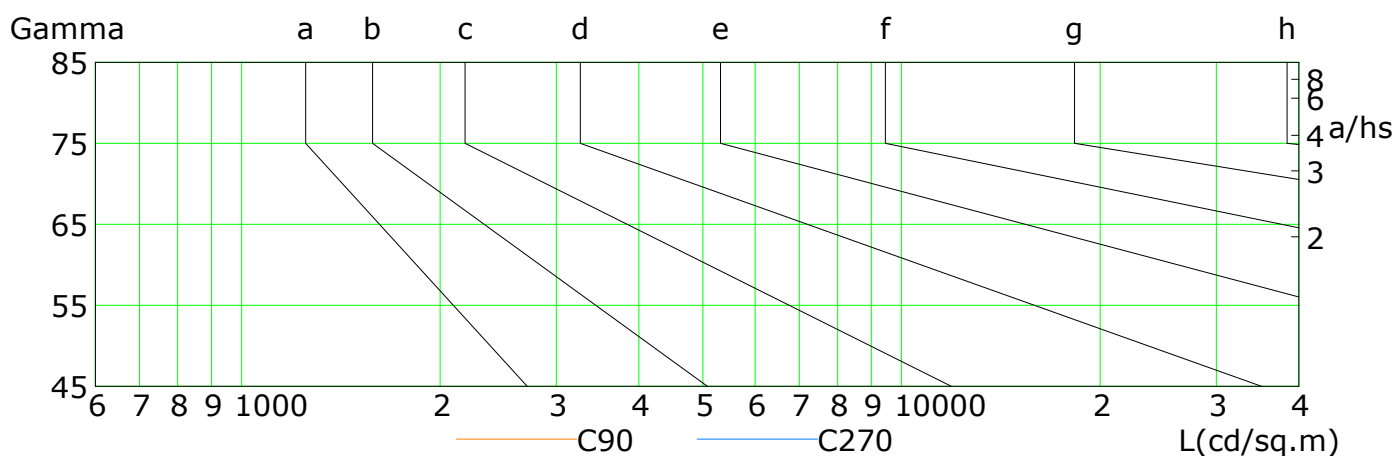
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 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

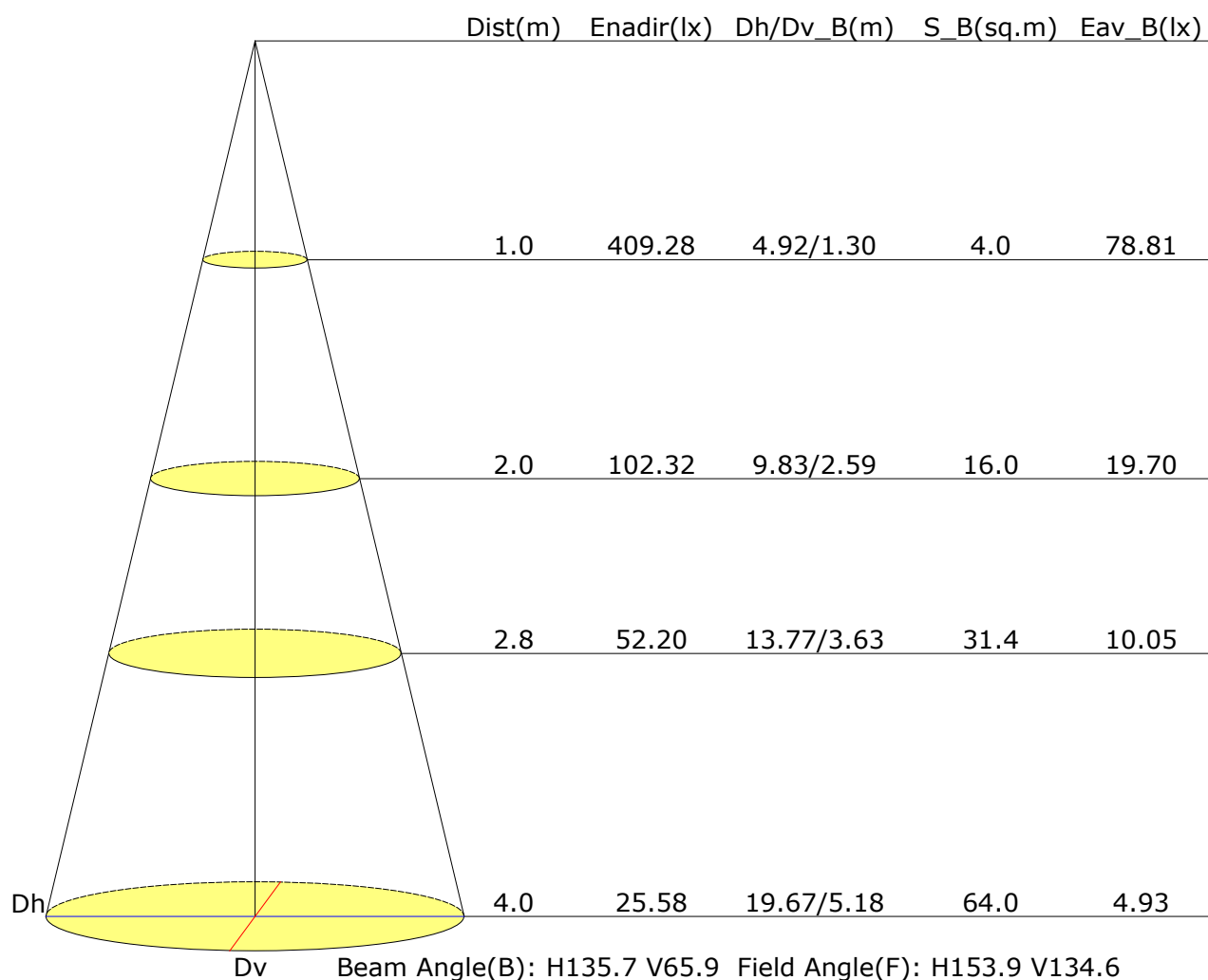


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	336	320	304	293	262	140	57	21	5
C90	84	58	52	48	48	44	33	22	11
C180	336	319	304	292	268	155	60	23	6
C270	78	58	52	45	39	31	26	20	13

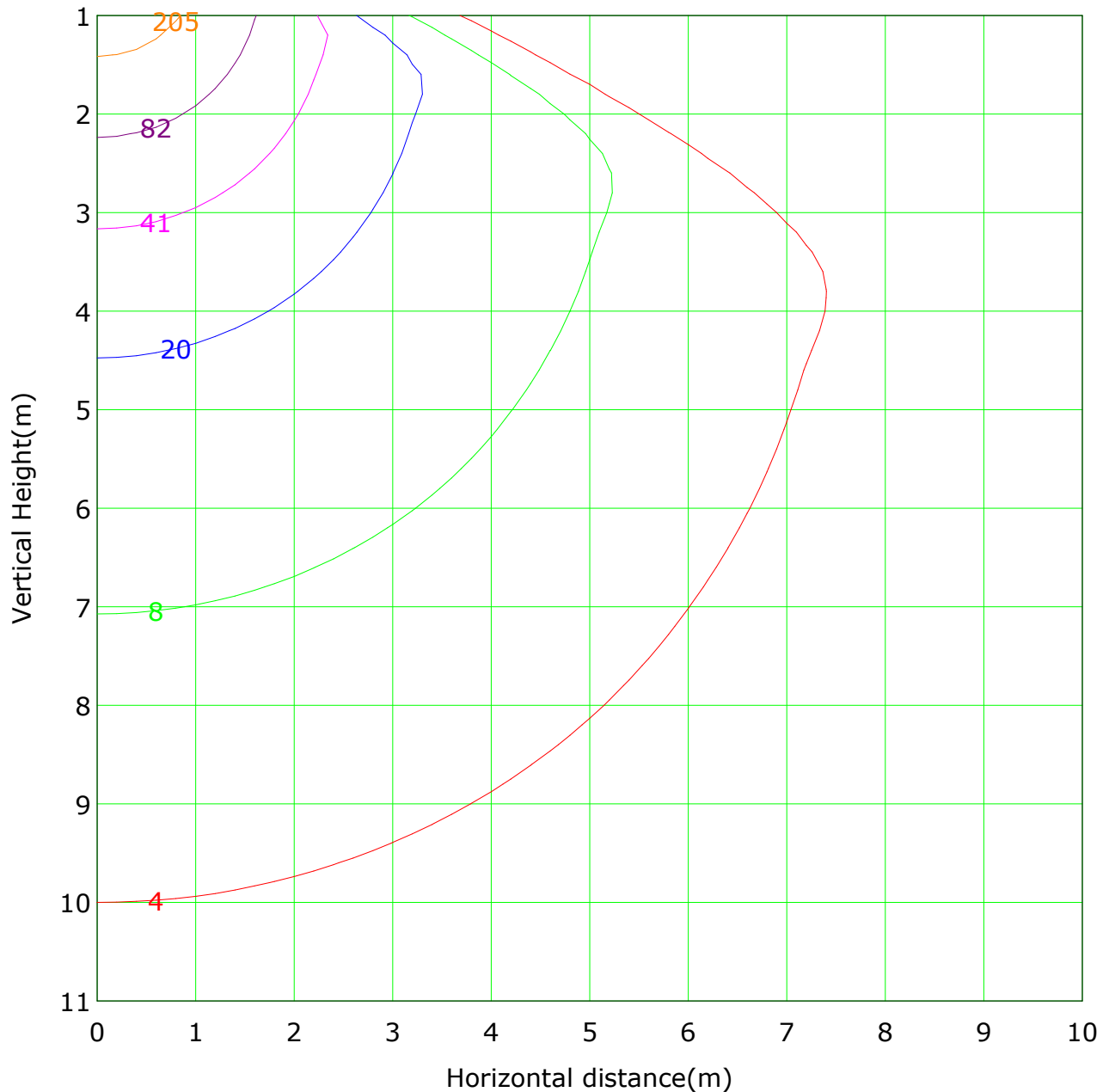
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 7.792 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 409.3 lx

(1%): 4.1 lx	(2%): 8.2 lx
(5%): 20.5 lx	(10%): 40.9 lx
(20%): 81.9 lx	(50%): 204.6 lx
(100%): 409.3 lx	