

Report No.:

Test Time: 18/04/2025 16:07

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-AN07-03+LLD-03-FK

Lamp Description: F52-40s-1208F2/14.4

Number of Lamps: 1

Lumens per Lamp: 1491

Voltage: 24.01 V

Current: 0.502 A

Power: 13,26 W

Power Factor: 1

Photometric Results

CIE Class: Direct

Measurement Flux: 1149.2 lm

Downward Ratio: 77.07%

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 77.07%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.3, 137.5, 133.1, 132.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.5, 79.5, 93.8, 92.8

Luminaire Efficacy Rating (LER): 88.45

Central Intensity: 521.88 cd

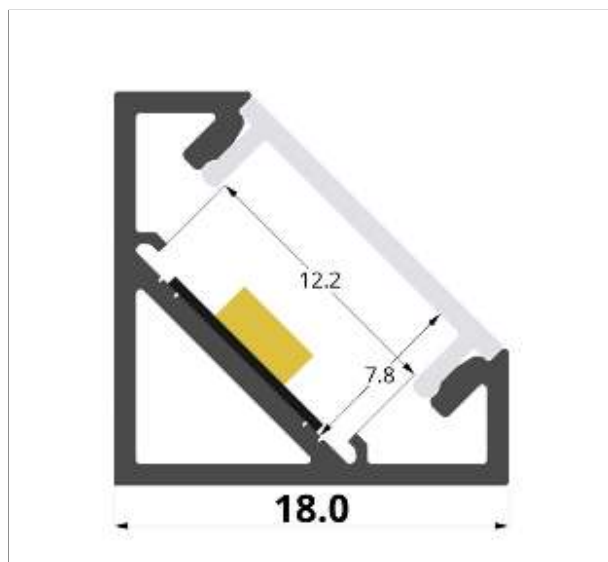
Max. Intensity: 522.09 cd

Pos of Max. Intensity: H22.5 V0

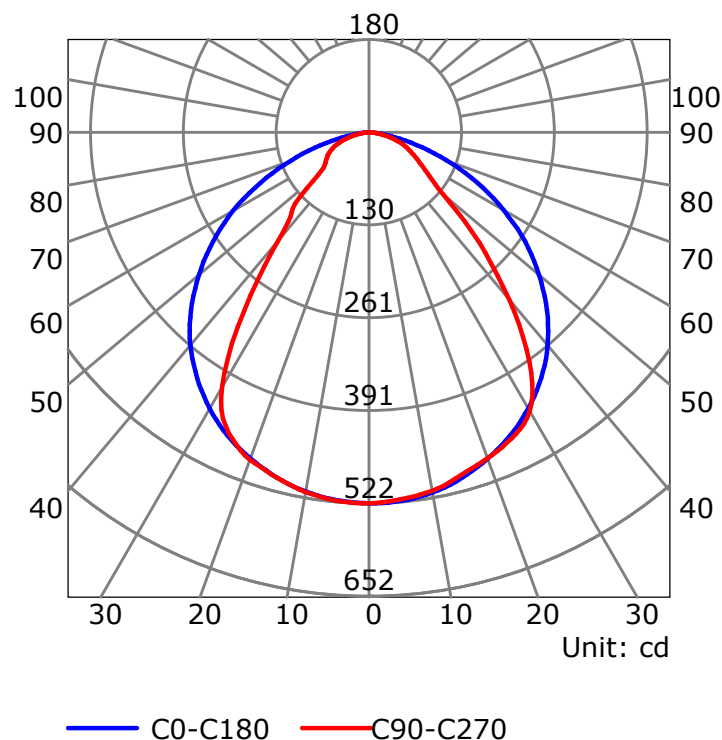
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.21

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

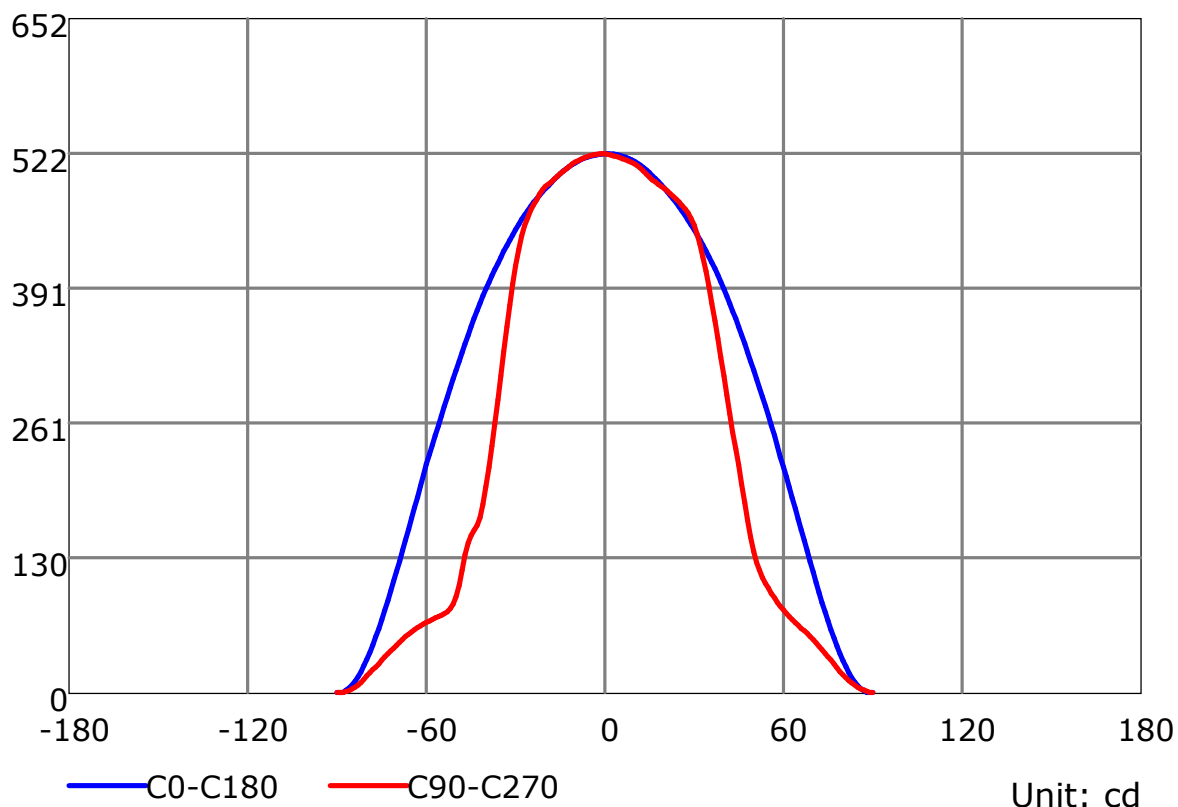
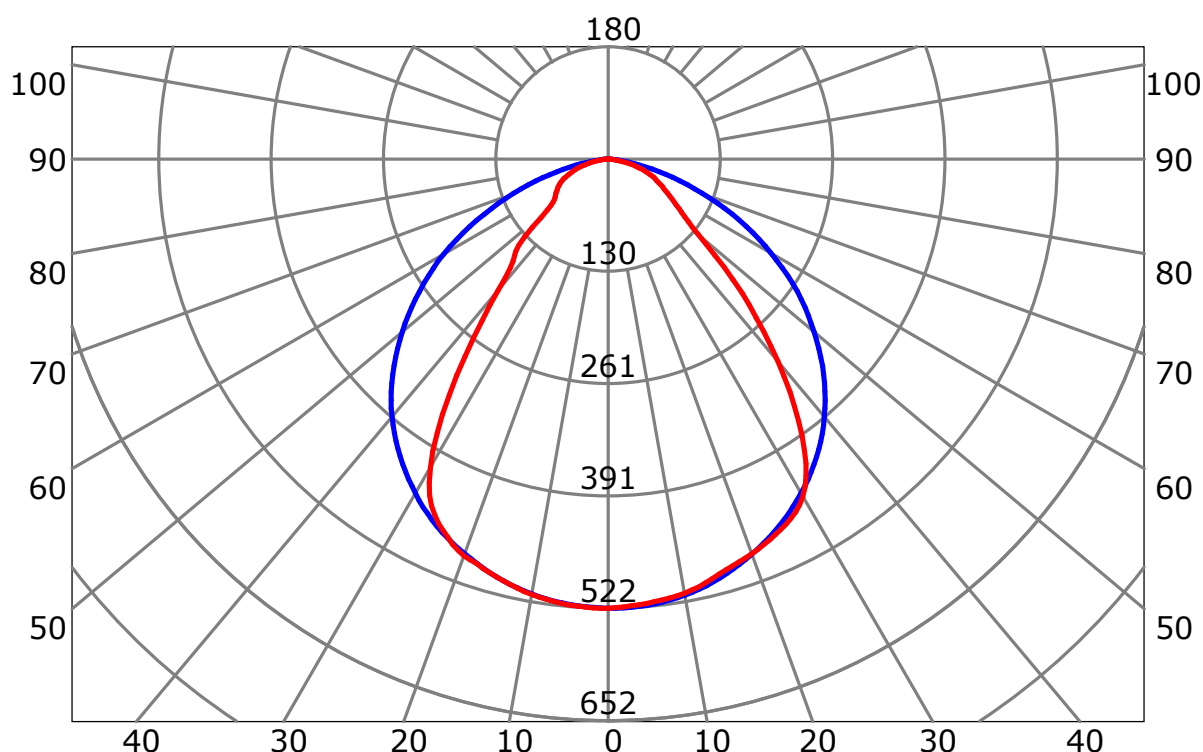
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

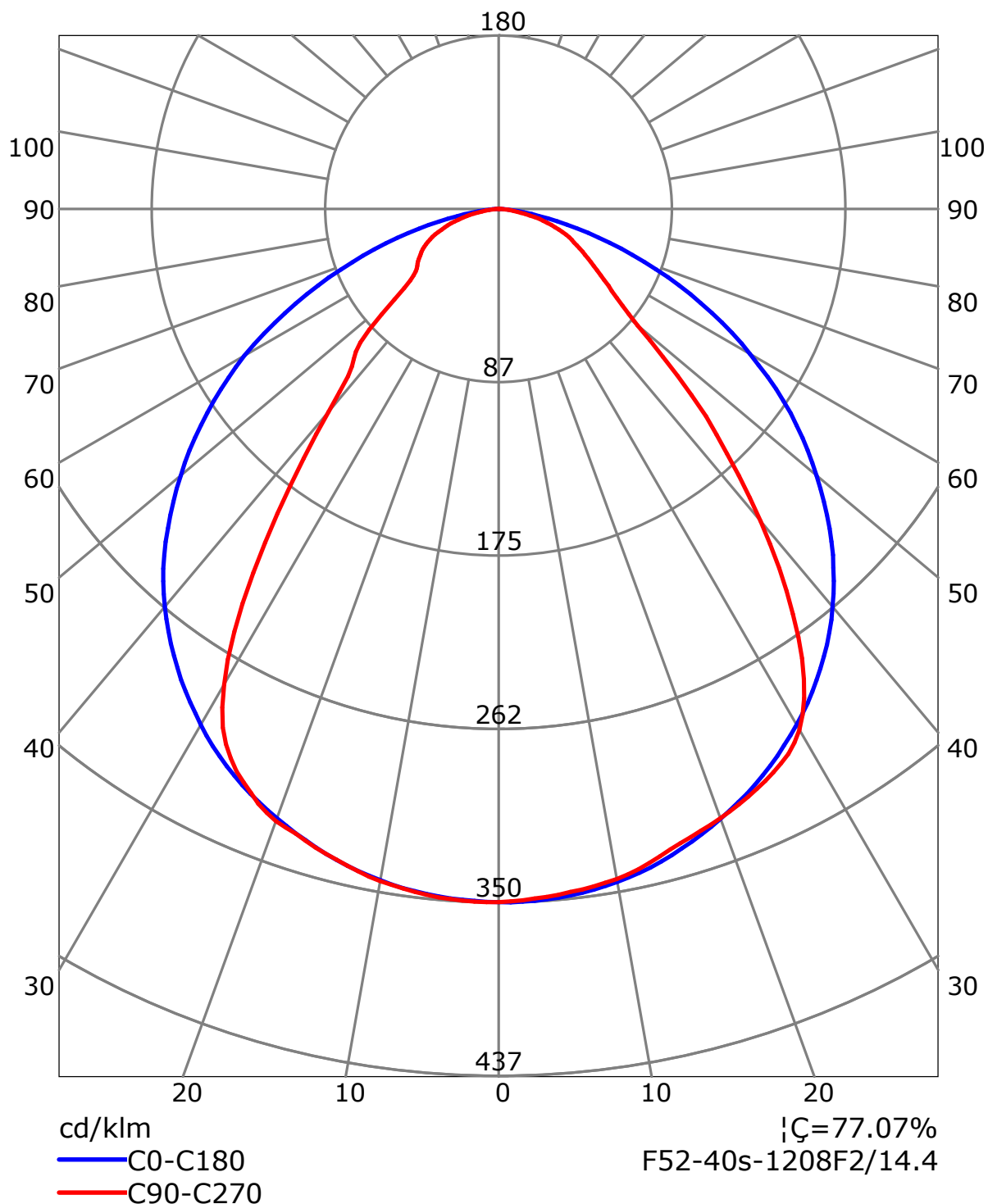
Luminous Intensity Distribution Curve



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:

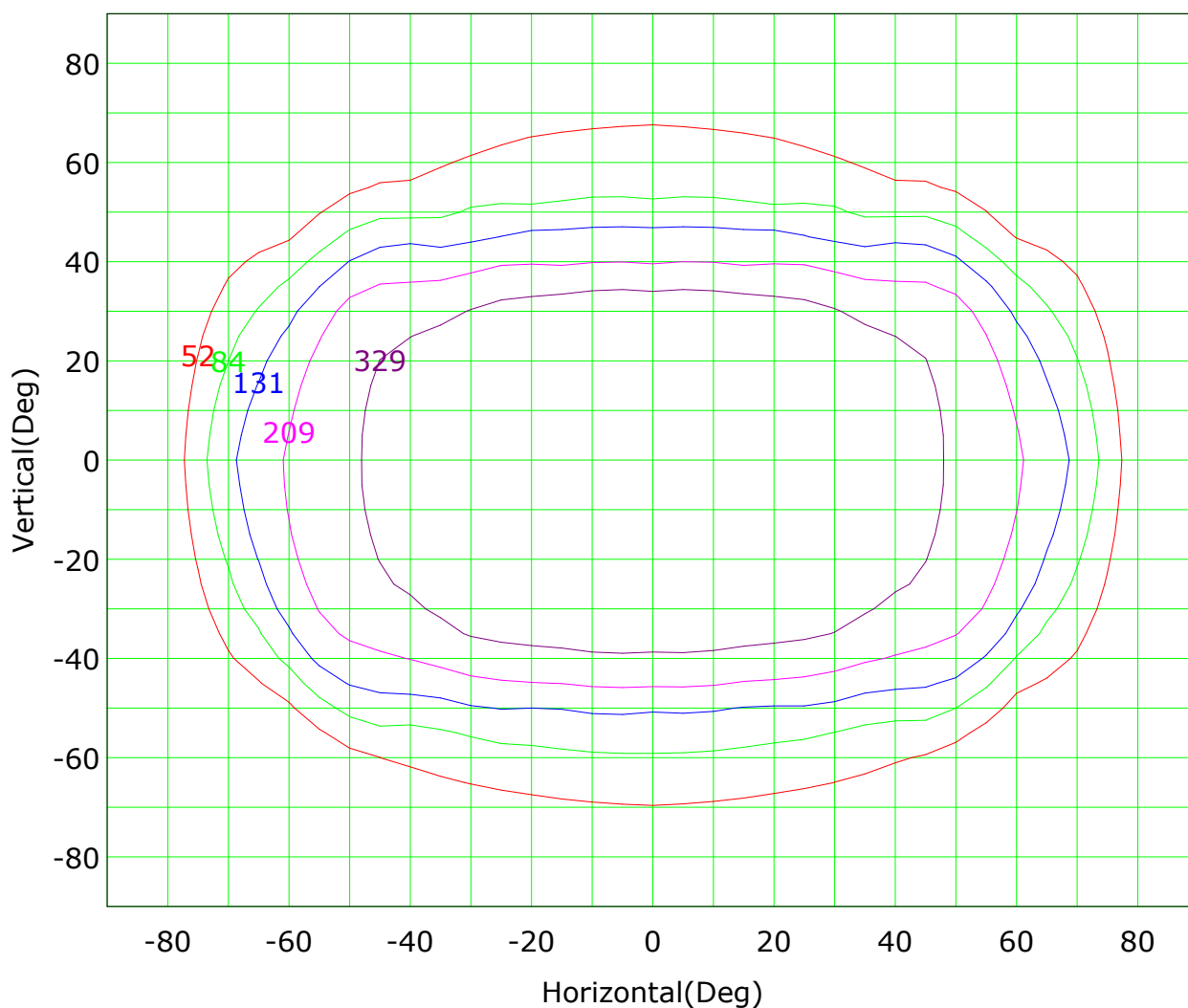
Luminous Intensity Distribution Curve(cd/klm)



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%): 522 cd

(10%):	52 cd	(16%):	84 cd
(25%):	131 cd	(40%):	209 cd
(63%):	329 cd	(100%):	522 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

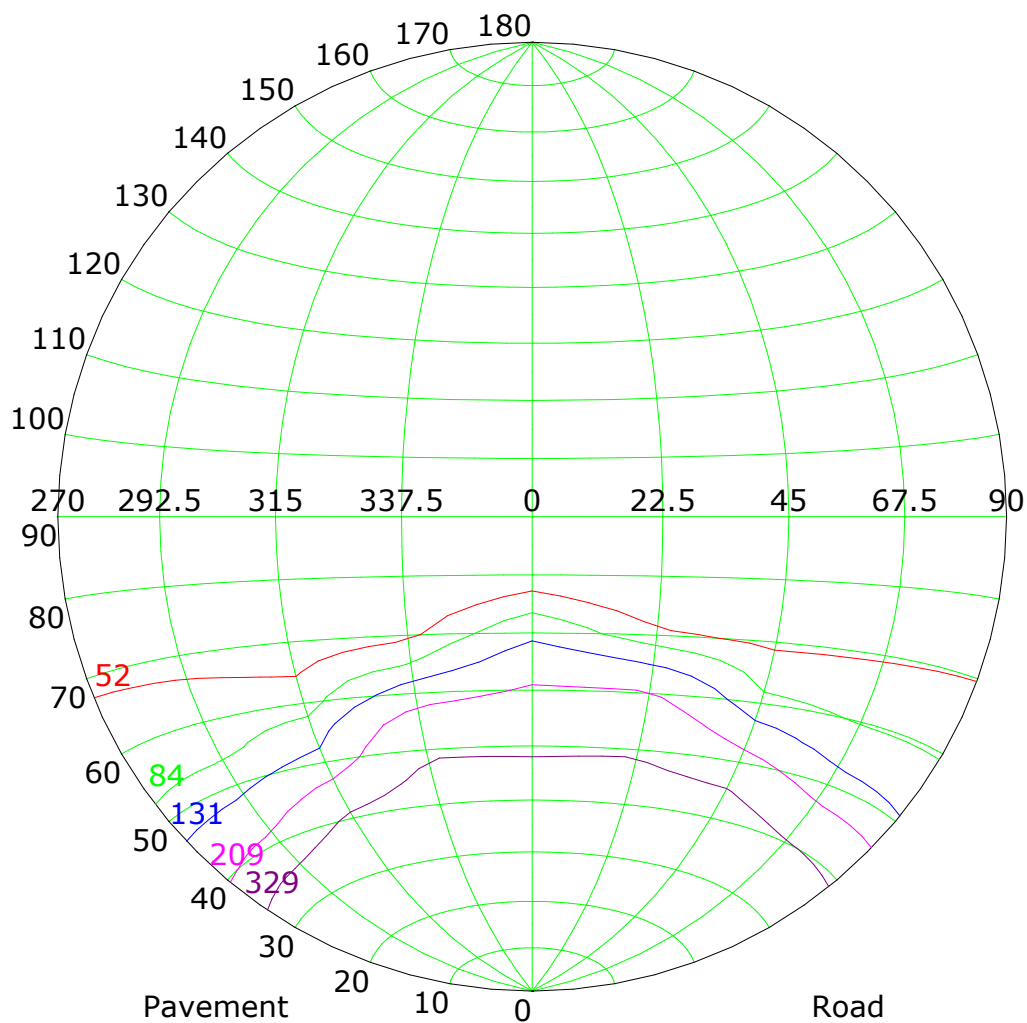
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 522 cd

(10%):	52 cd	(16%):	84 cd
(25%):	131 cd	(40%):	209 cd
(63%):	329 cd	(100%):	522 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

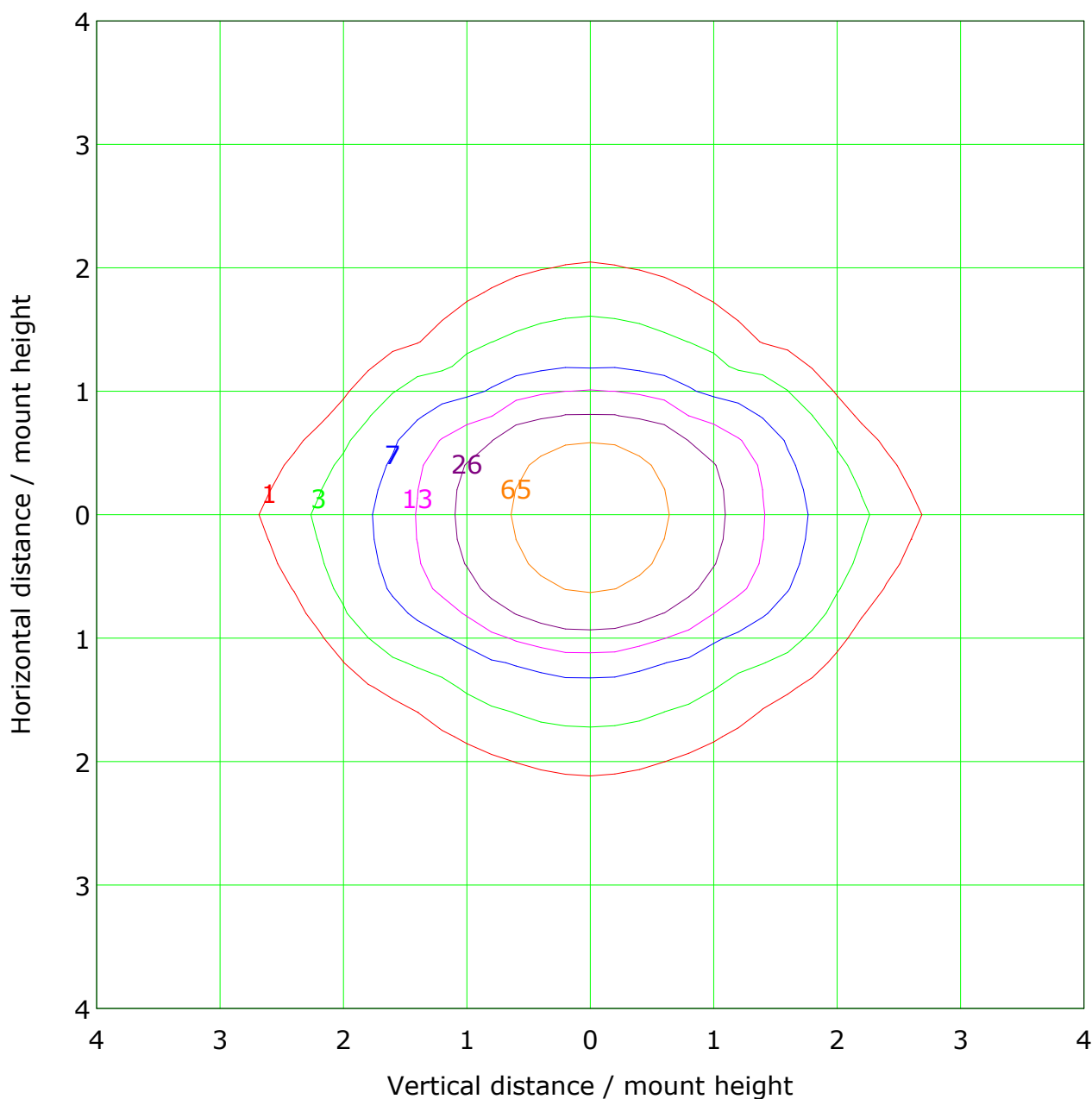
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m Max Lux(100%): 130.5 lx

(1%): 1.3 lx	(2%): 2.6 lx
(5%): 6.5 lx	(10%): 13.1 lx
(20%): 26.1 lx	(50%): 65.3 lx
(100%): 130.5 lx	

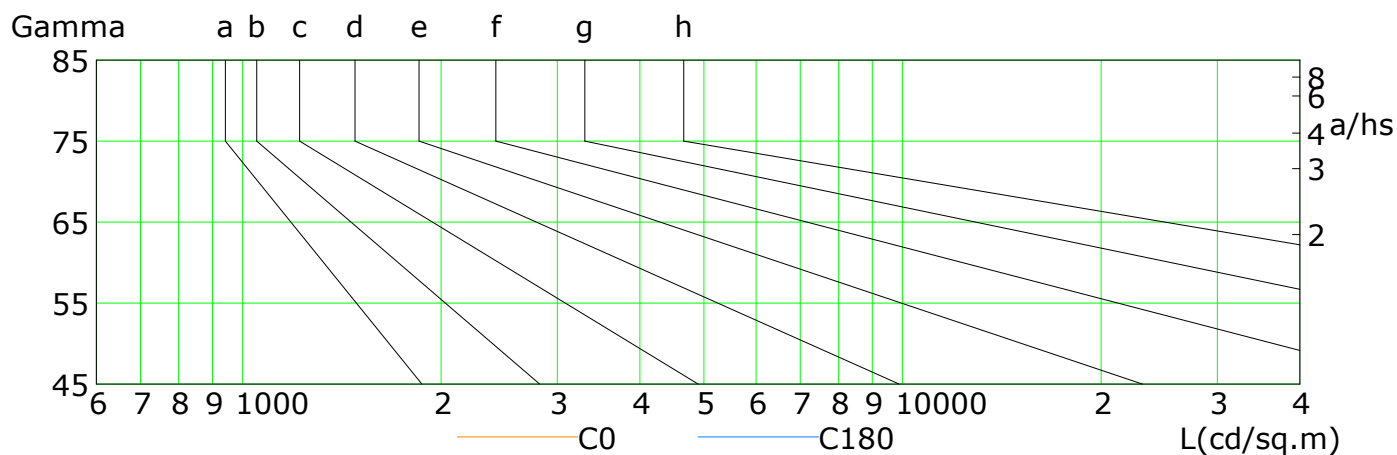
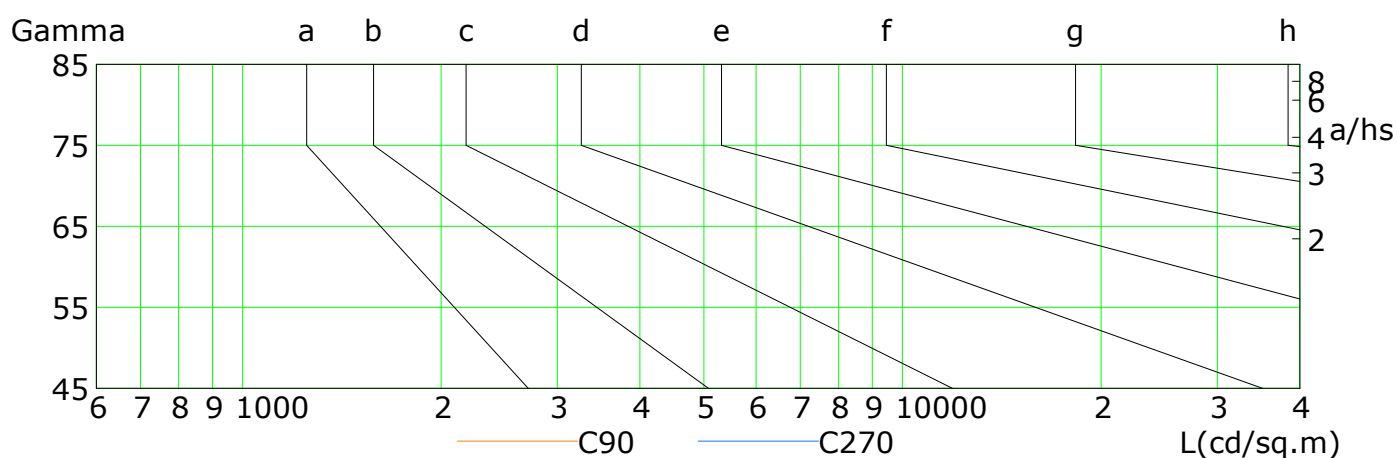
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

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

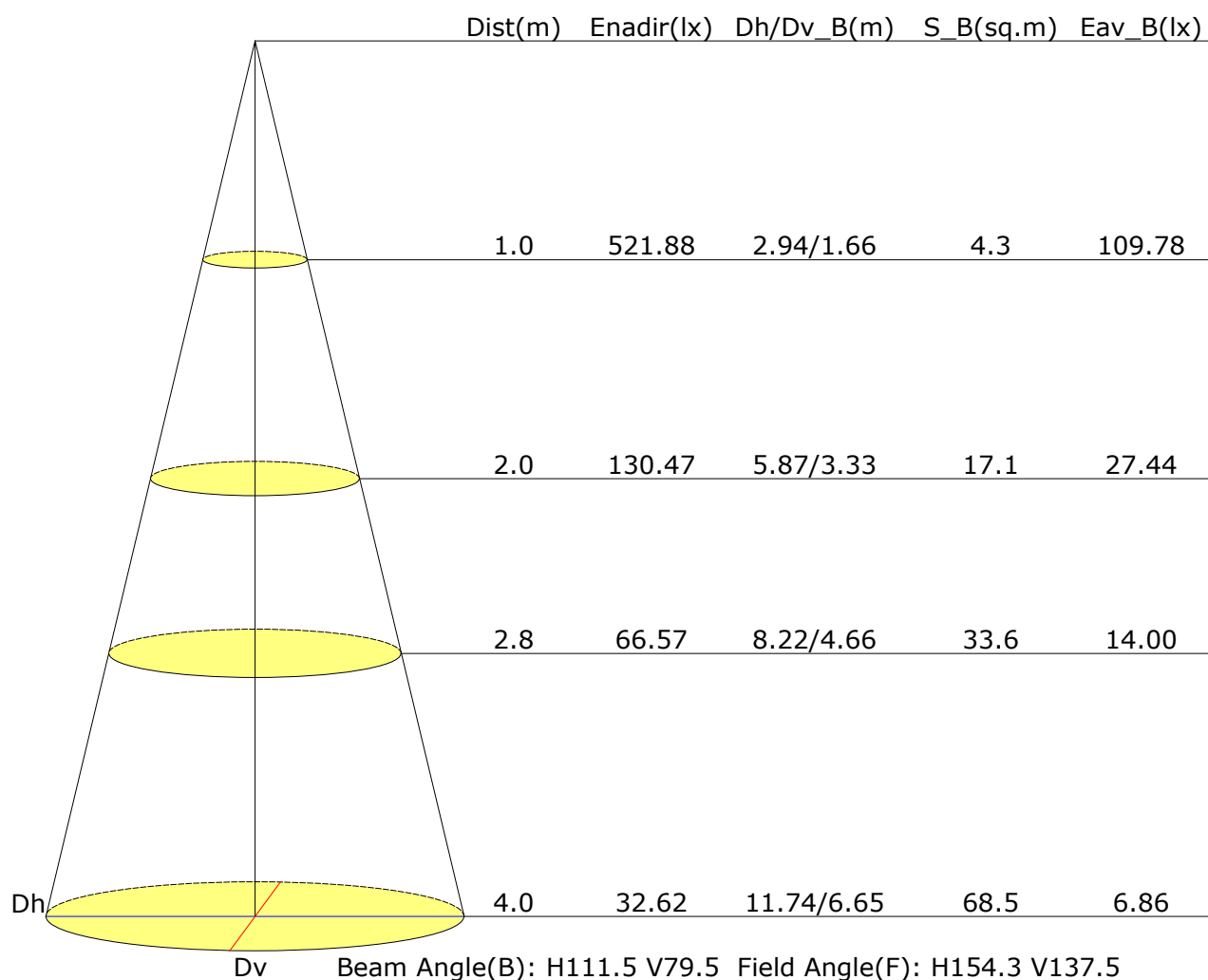


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	354	312	268	218	168	117	70	31	7
C90	221	136	101	80	65	51	35	17	5
C180	354	312	268	221	169	117	71	32	7
C270	152	93	75	68	59	46	31	16	3

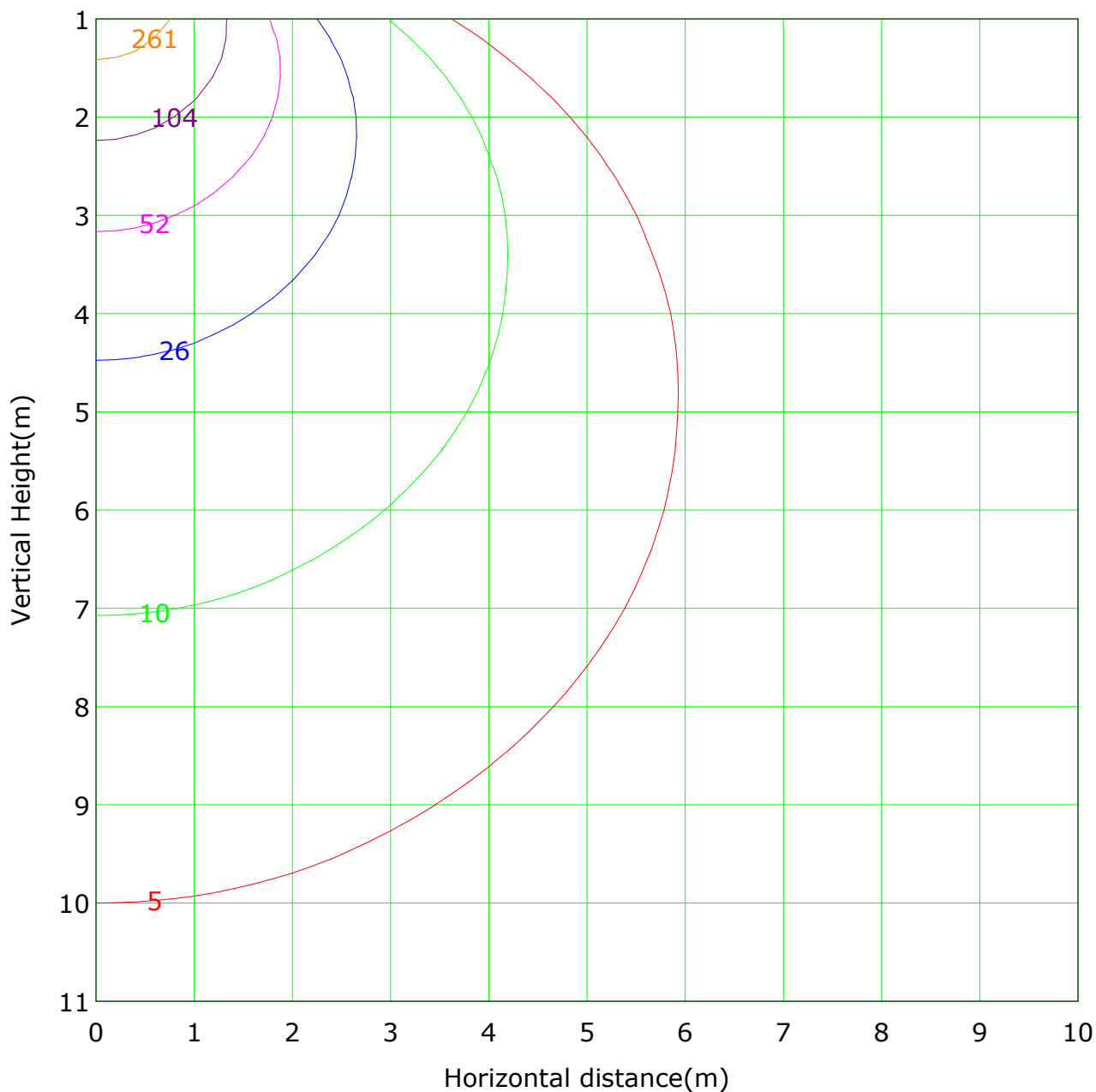
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 521.9 lx

— (1%): 5.2 lx	— (2%): 10.4 lx
— (5%): 26.1 lx	— (10%): 52.2 lx
— (20%): 104.4 lx	— (50%): 260.9 lx
— (100%): 521.9 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:

Report No.:

Test Time: 18/04/2025 16:32

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-AN07-03+LLD-03-FH

Lamp Description: F52-40s-1208F2/14.4

Number of Lamps: 1

Lumens per Lamp: 1491

Voltage: 24.01 V

Current: 0.502 A

Power: 13.26 W

Power Factor: 1

Photometric Results

CIE Class: Direct

Measurement Flux: 1091.8 lm

Downward Ratio: 73.22%

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 73.22%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 152.9, 145.8, 148.4, 148.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.2, 81.3, 89.6, 89.1

Luminaire Efficacy Rating (LER): 82.39

Central Intensity: 499.83 cd

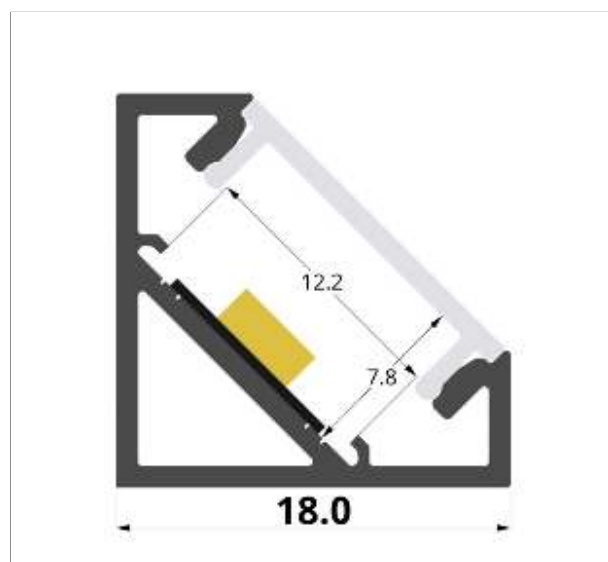
Max. Intensity: 500.87 cd

Pos of Max. Intensity: H90 V3

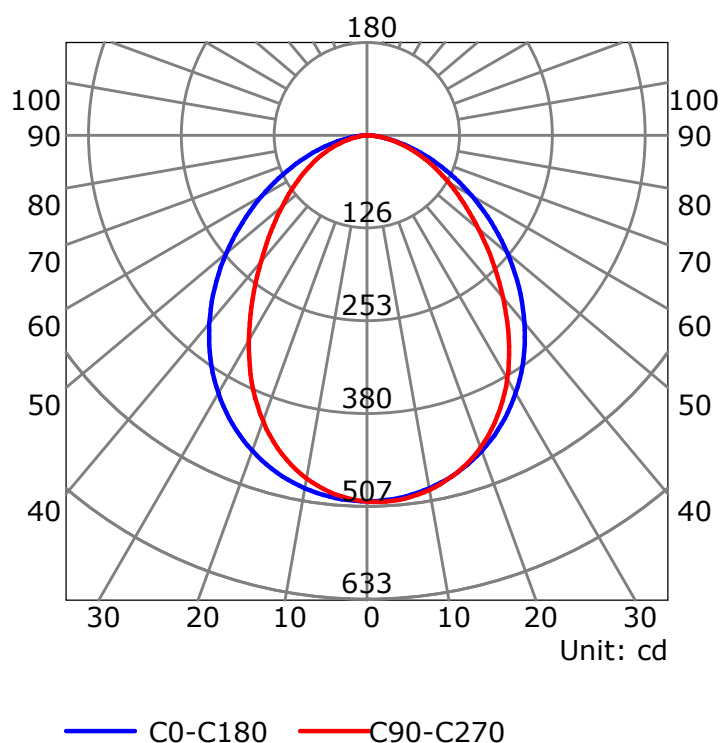
S/MH(C0/C180): 1.21

S/MH(C90/C270): 1.08

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

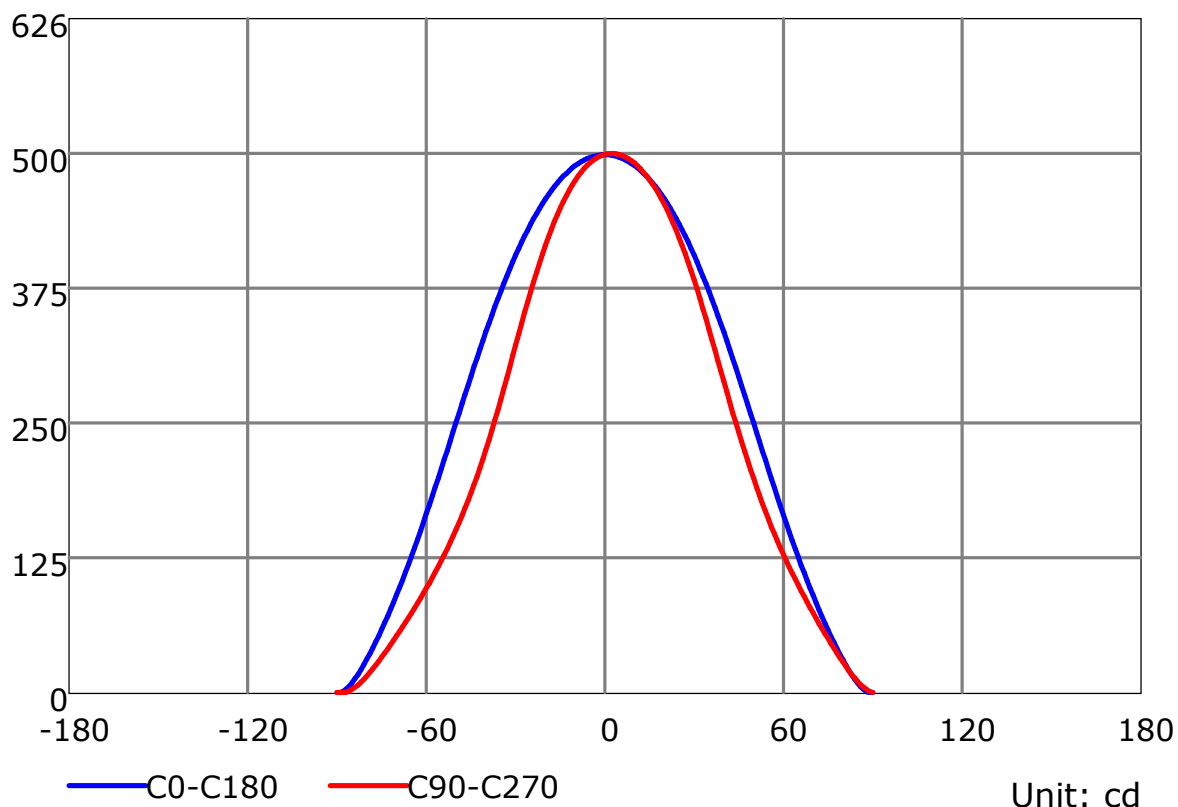
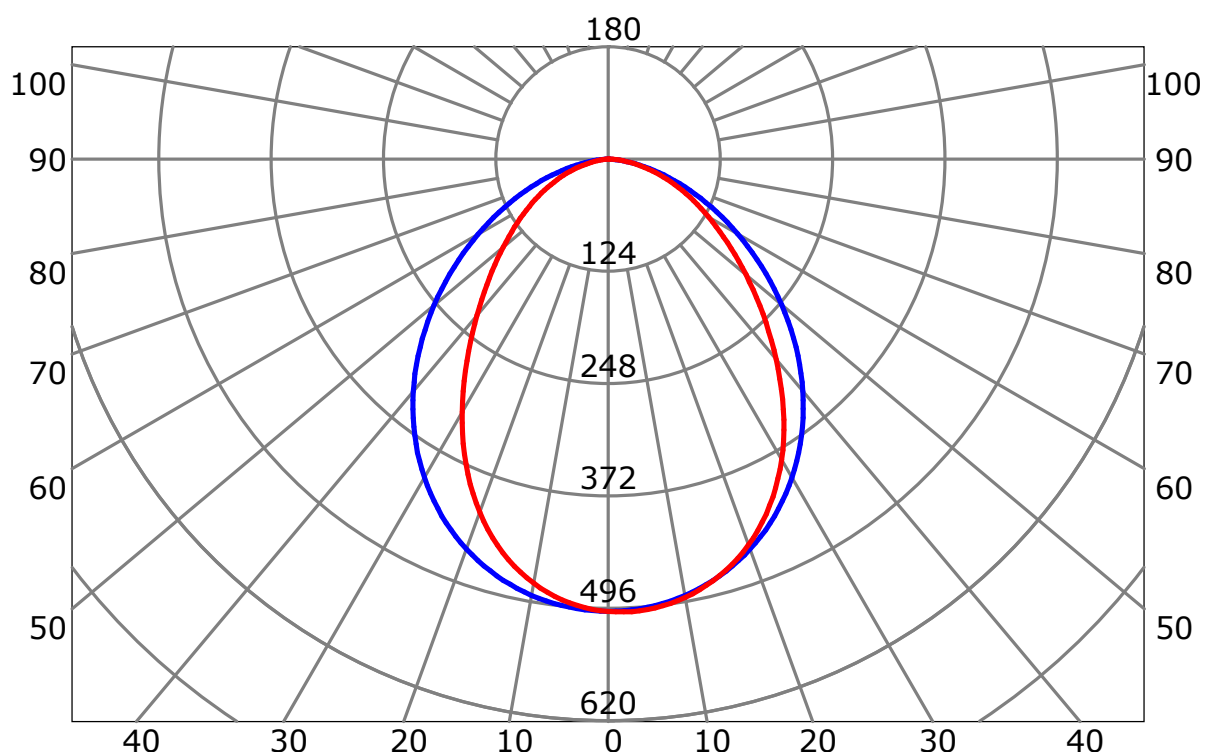
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

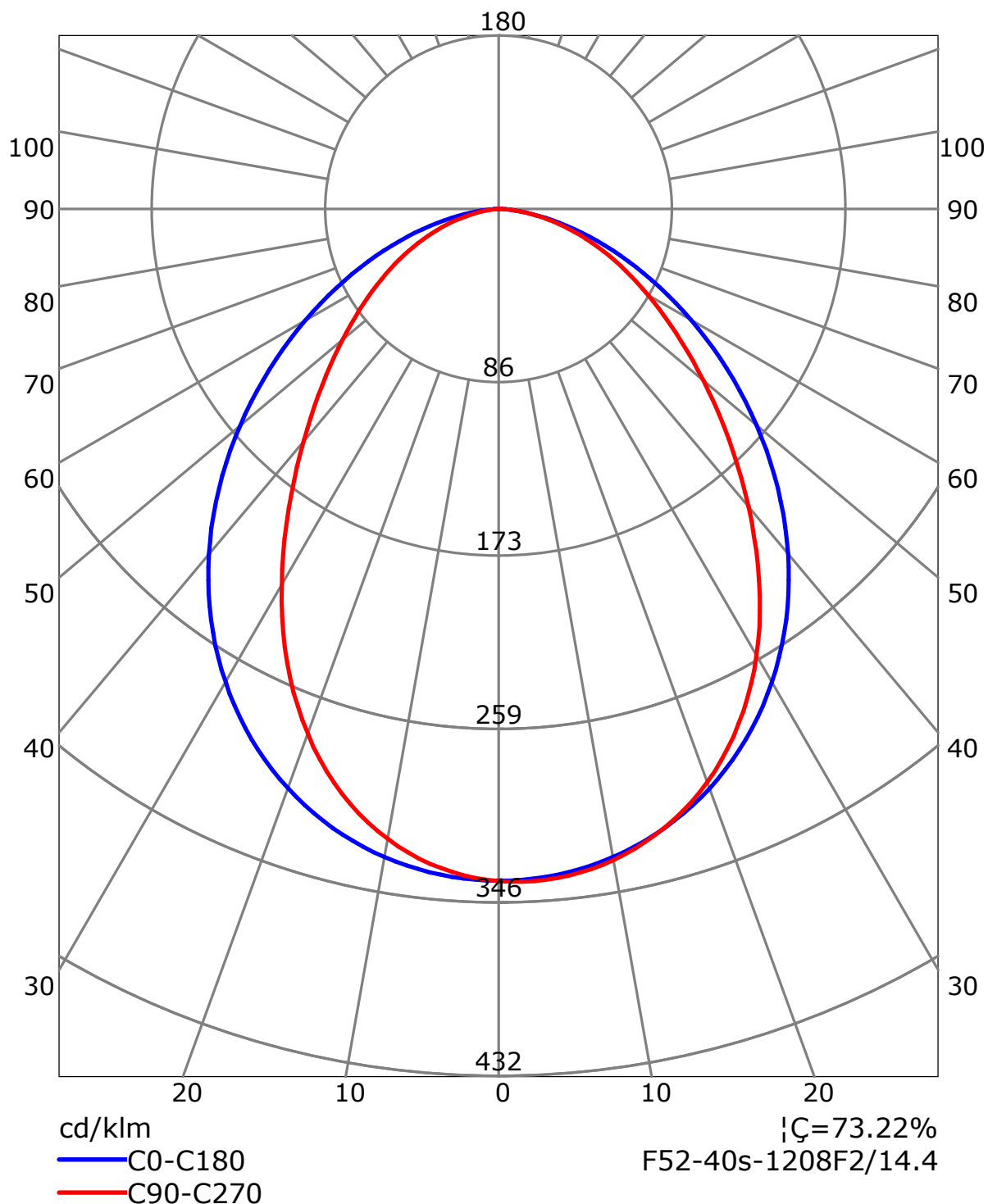
Luminous Intensity Distribution Curve



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:

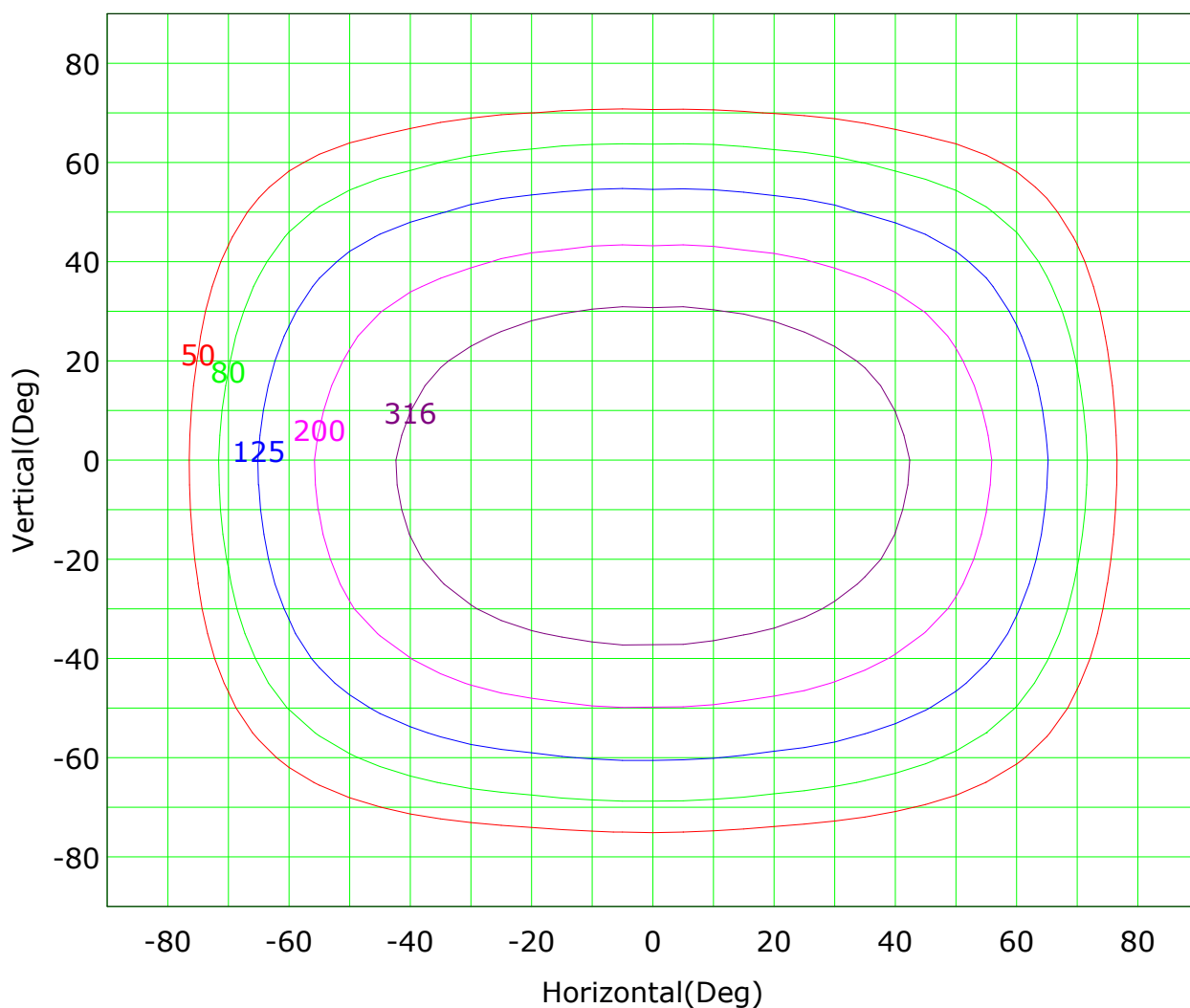
Luminous Intensity Distribution Curve(cd/klm)



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%): 501 cd

(10%):	50 cd	(16%):	80 cd
(25%):	125 cd	(40%):	200 cd
(63%):	316 cd	(100%):	501 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

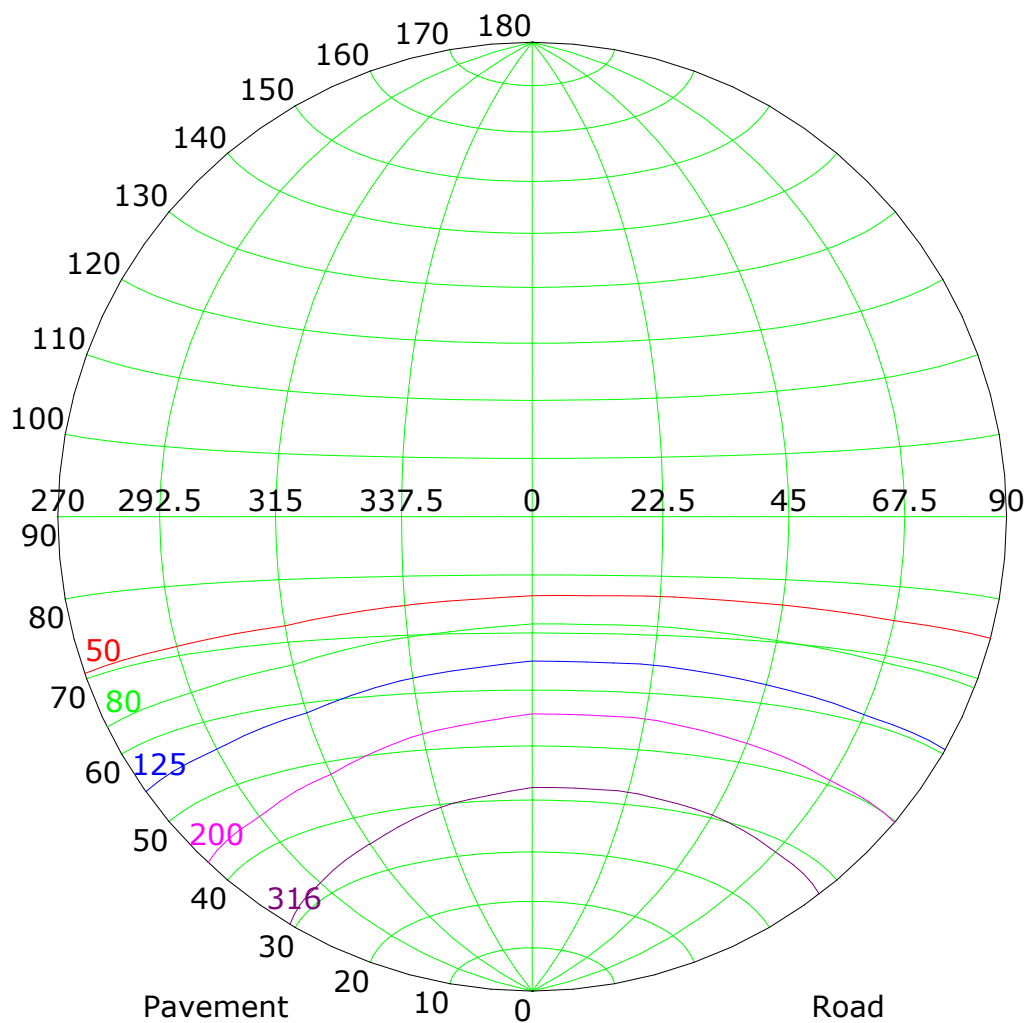
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 501 cd

(10%):	50 cd	(16%):	80 cd
(25%):	125 cd	(40%):	200 cd
(63%):	316 cd	(100%):	501 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

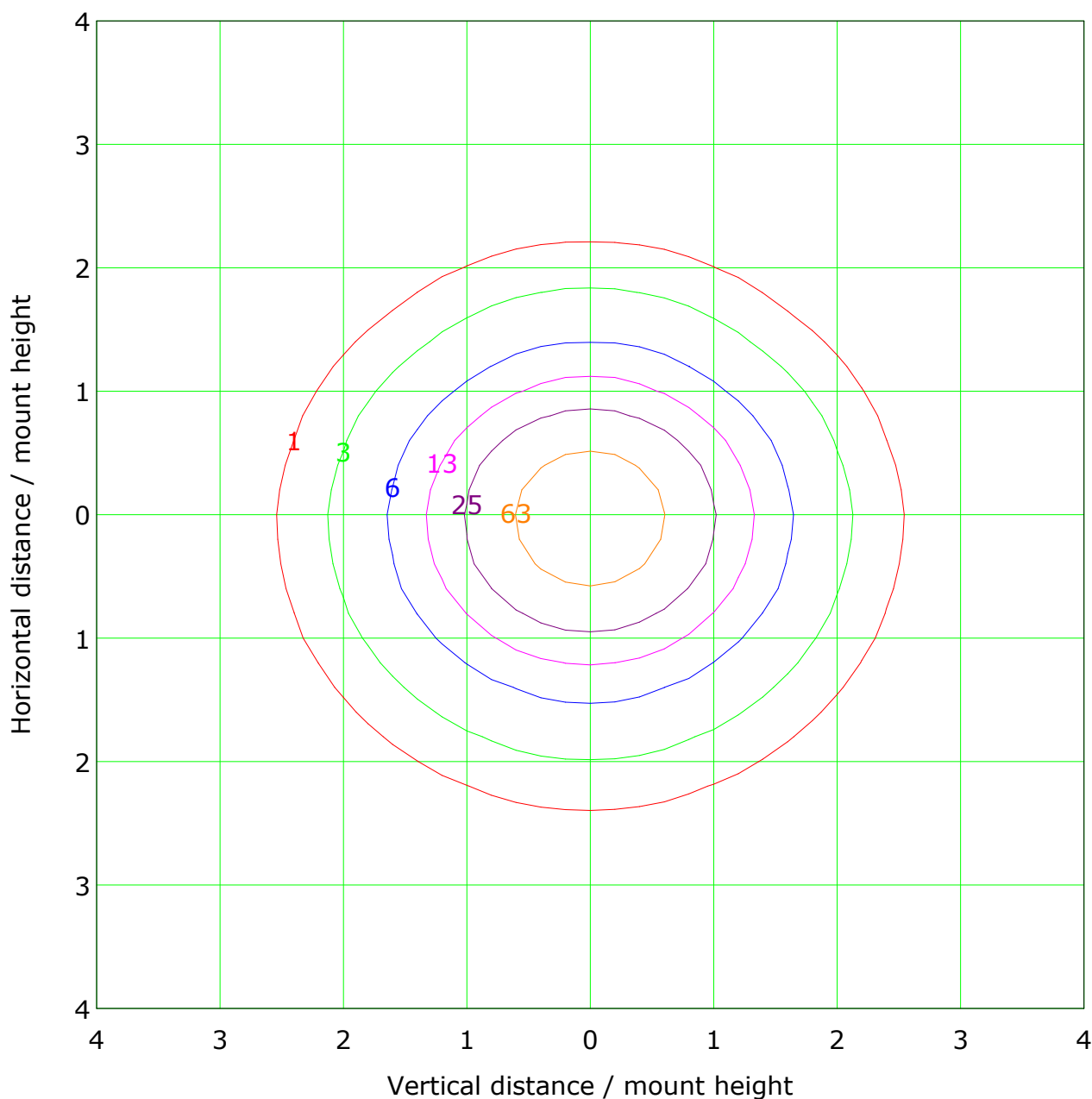
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 125.1 lx	
— (1%):	1.3 lx	— (2%):	2.5 lx
— (5%):	6.3 lx	— (10%):	12.5 lx
— (20%):	25.0 lx	— (50%):	62.5 lx
— (100%):	125.1 lx		

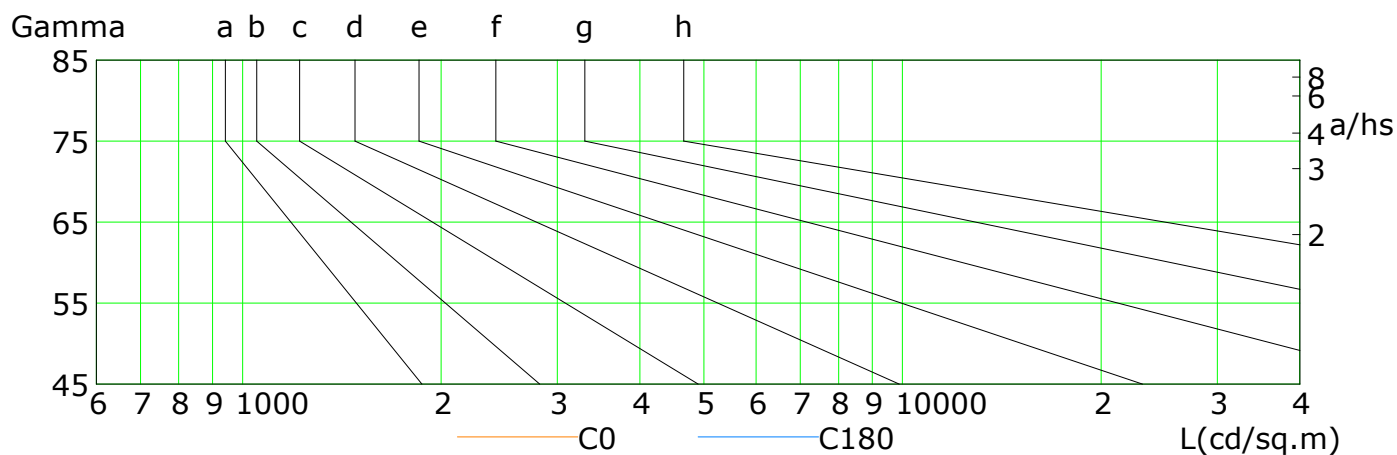
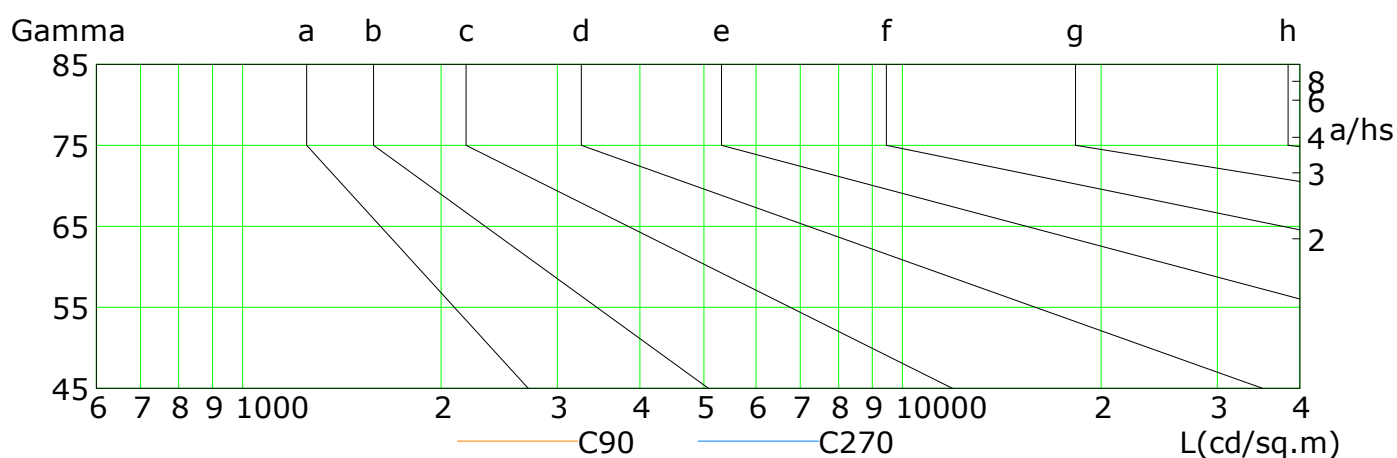
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

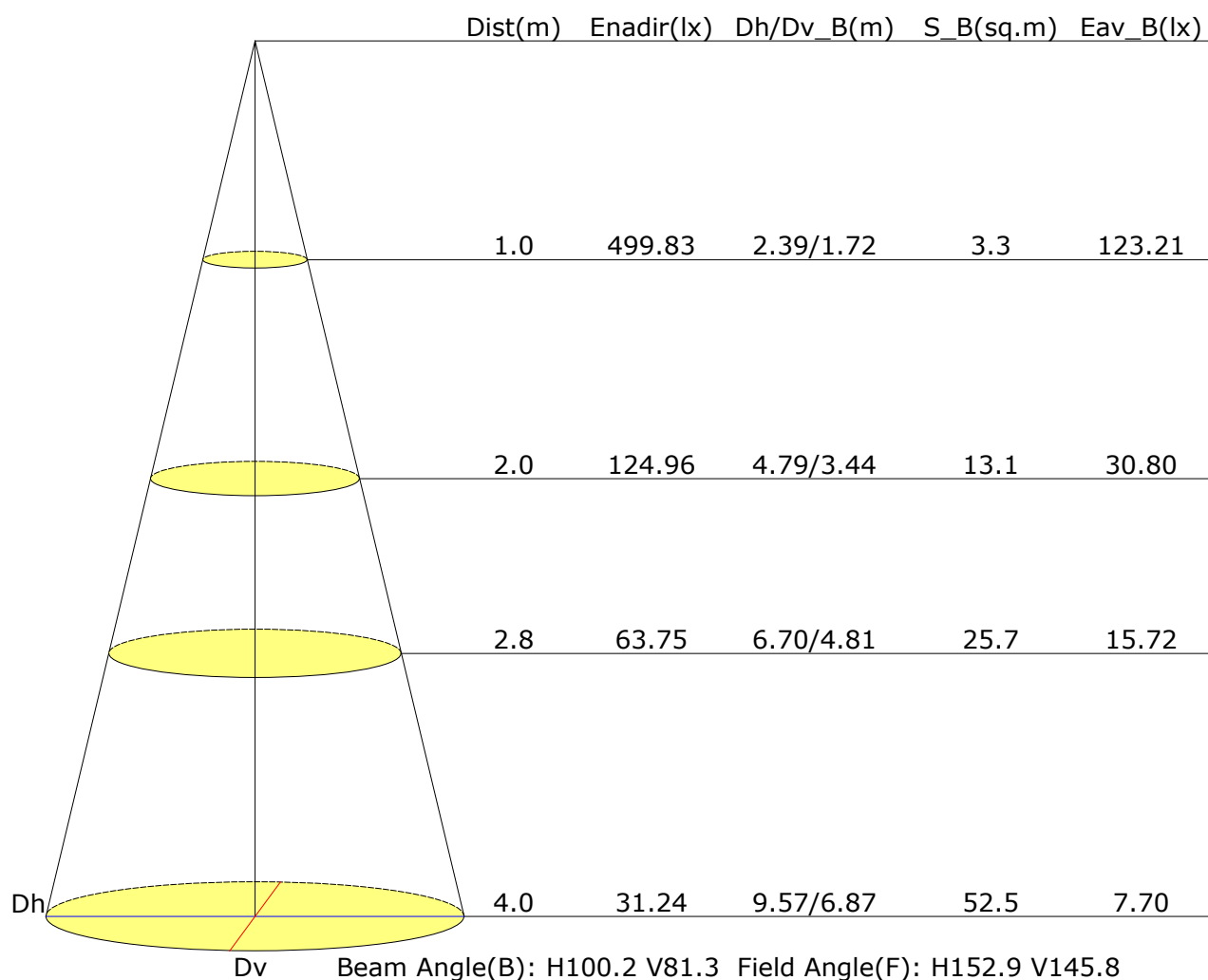


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	294	251	207	165	126	90	58	30	9
C90	242	199	161	128	100	74	51	28	10
C180	294	251	208	166	127	91	59	31	9
C270	186	152	123	97	74	53	33	15	3

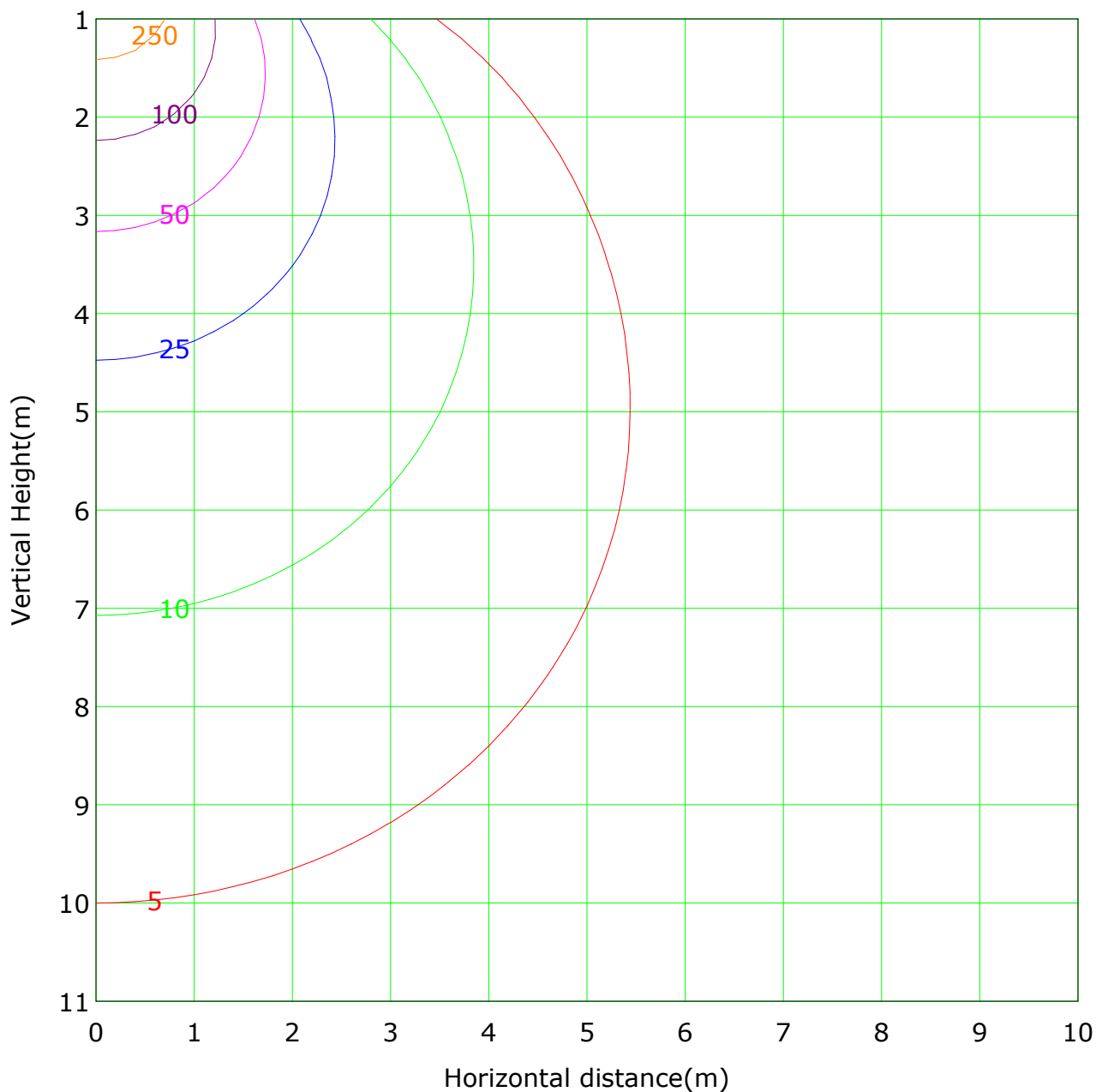
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 499.8 lx

— (1%): 5.0 lx	— (2%): 10.0 lx
— (5%): 25.0 lx	— (10%): 50.0 lx
— (20%): 100.0 lx	— (50%): 249.9 lx
— (100%): 499.8 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: 18/04/2025 15:17

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-AN07-03+LLD-03-FM

Lamp Description: F52-40s-1208F2/14.4

Number of Lamps: 1

Lumens per Lamp: 1491

Voltage: 24.01 V

Current: 0.502 A

Power: 13.26 W

Power Factor: 1

Photometric Results

CIE Class: Direct

Measurement Flux: 921.2 lm

Downward Ratio: 61.78%

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 61.78%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.7, 159.1, 159.4, 159.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.7, 109.4, 110.2, 110.1

Luminaire Efficacy Rating (LER): 69.52

Central Intensity: 334.07 cd

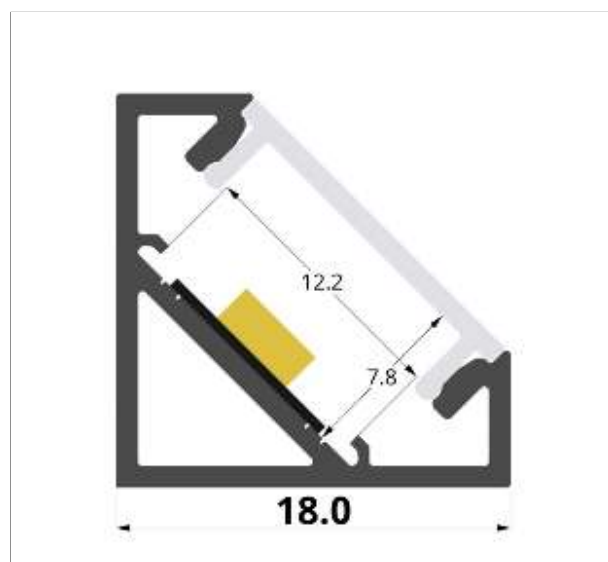
Max. Intensity: 334.08 cd

Pos of Max. Intensity: H0 V0

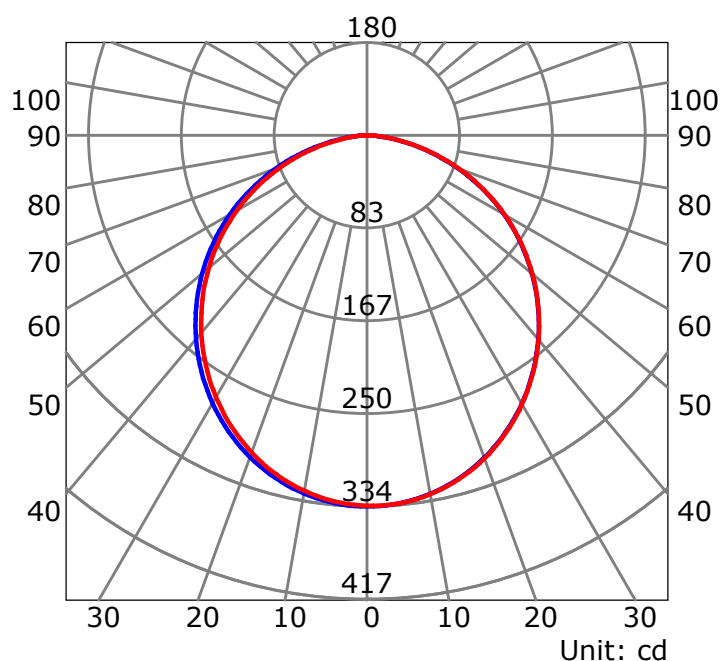
S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.23

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

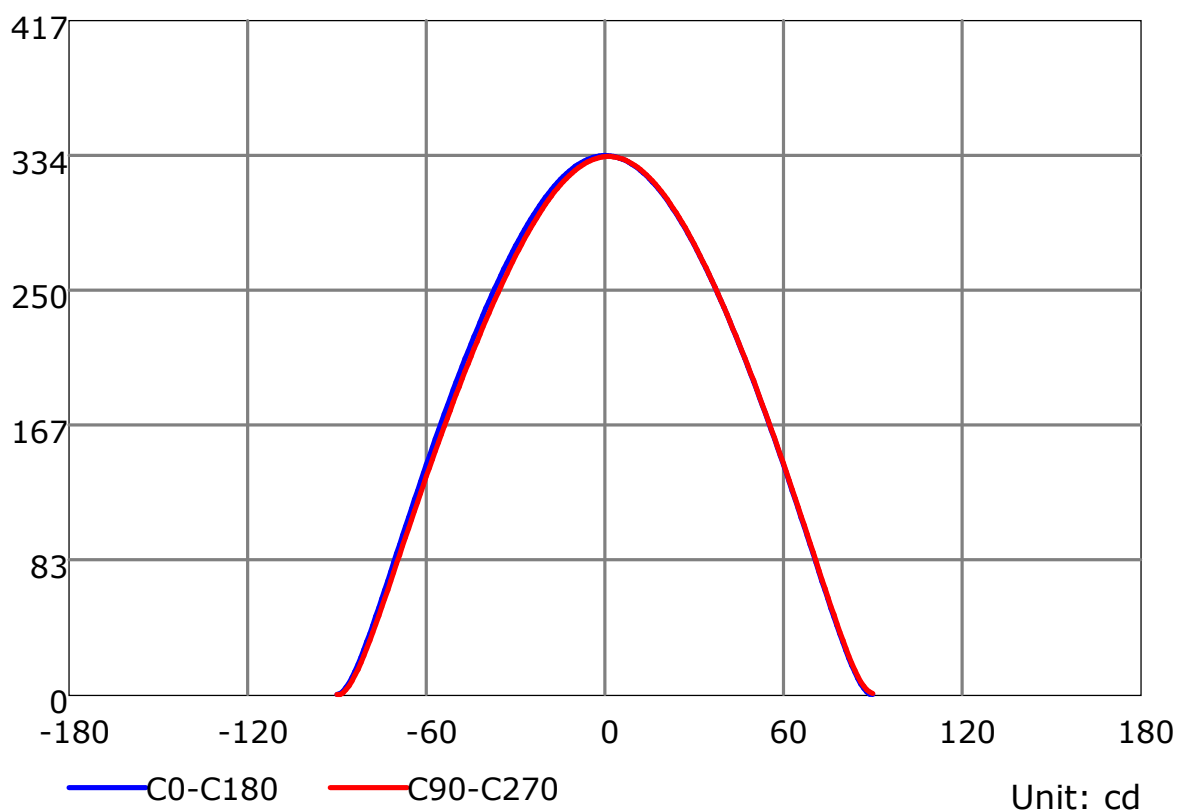
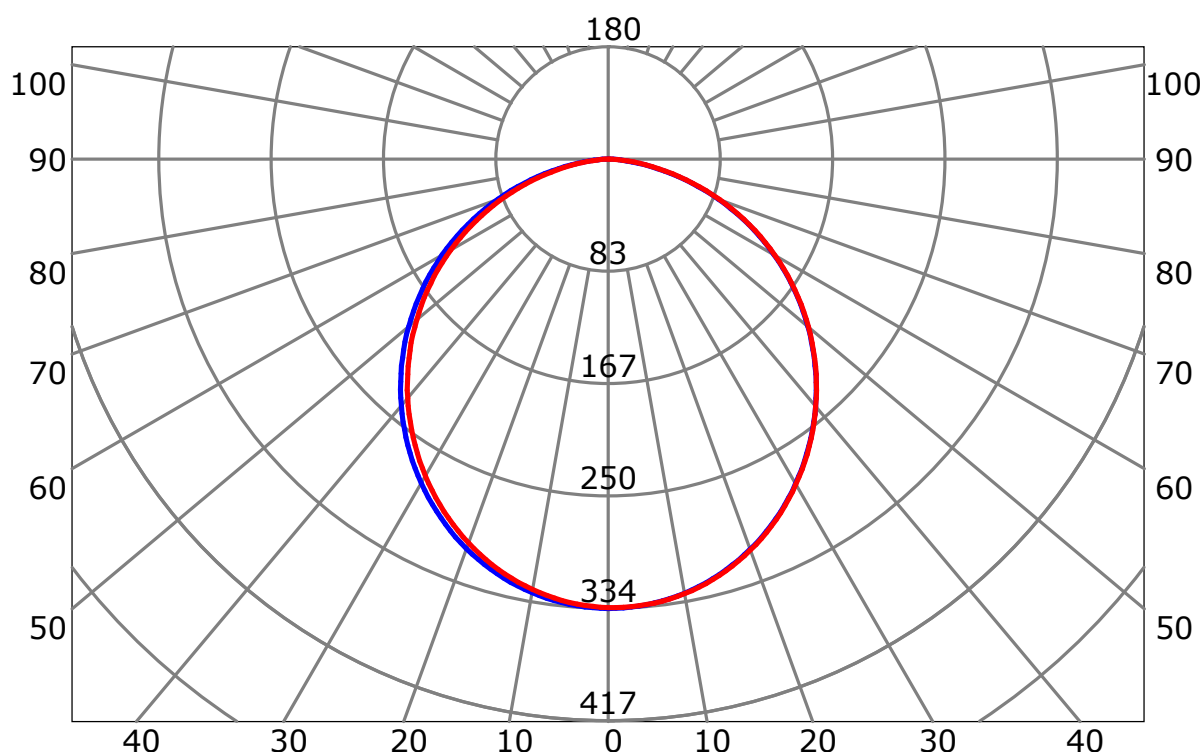
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

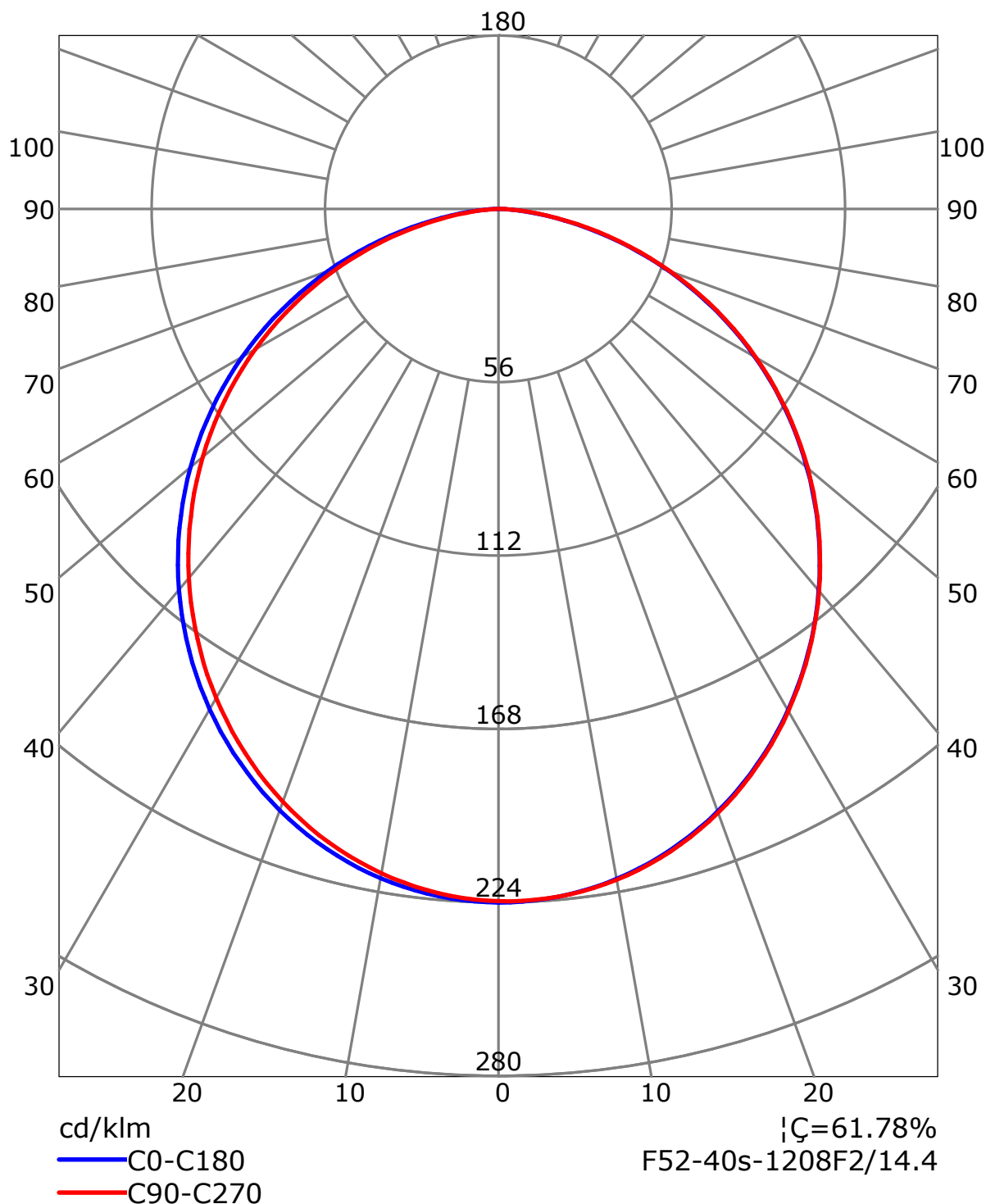
Luminous Intensity Distribution Curve



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:

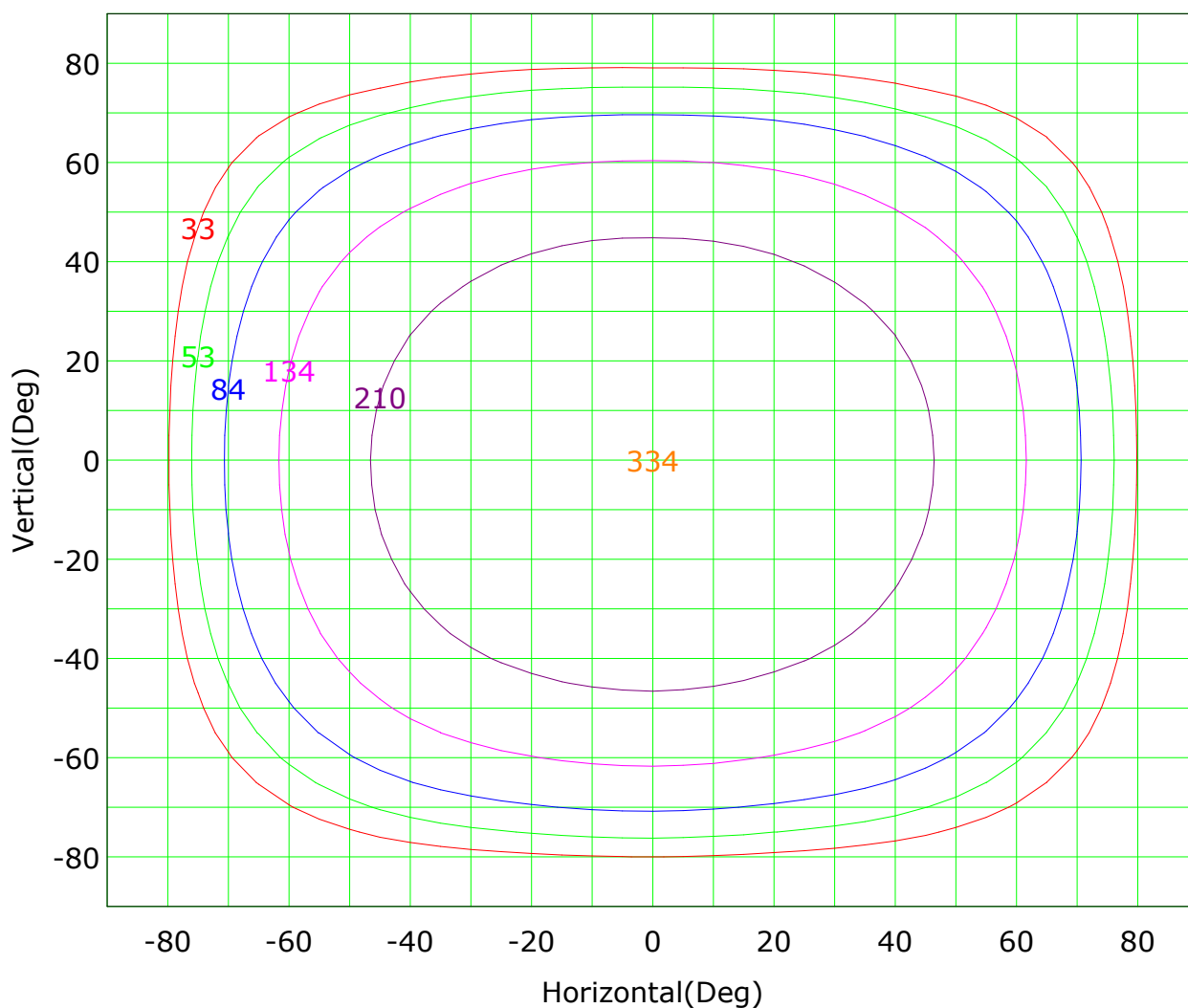
Luminous Intensity Distribution Curve(cd/klm)



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%): 334 cd

(10%):	33 cd	(16%):	53 cd
(25%):	84 cd	(40%):	134 cd
(63%):	210 cd	(100%):	334 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

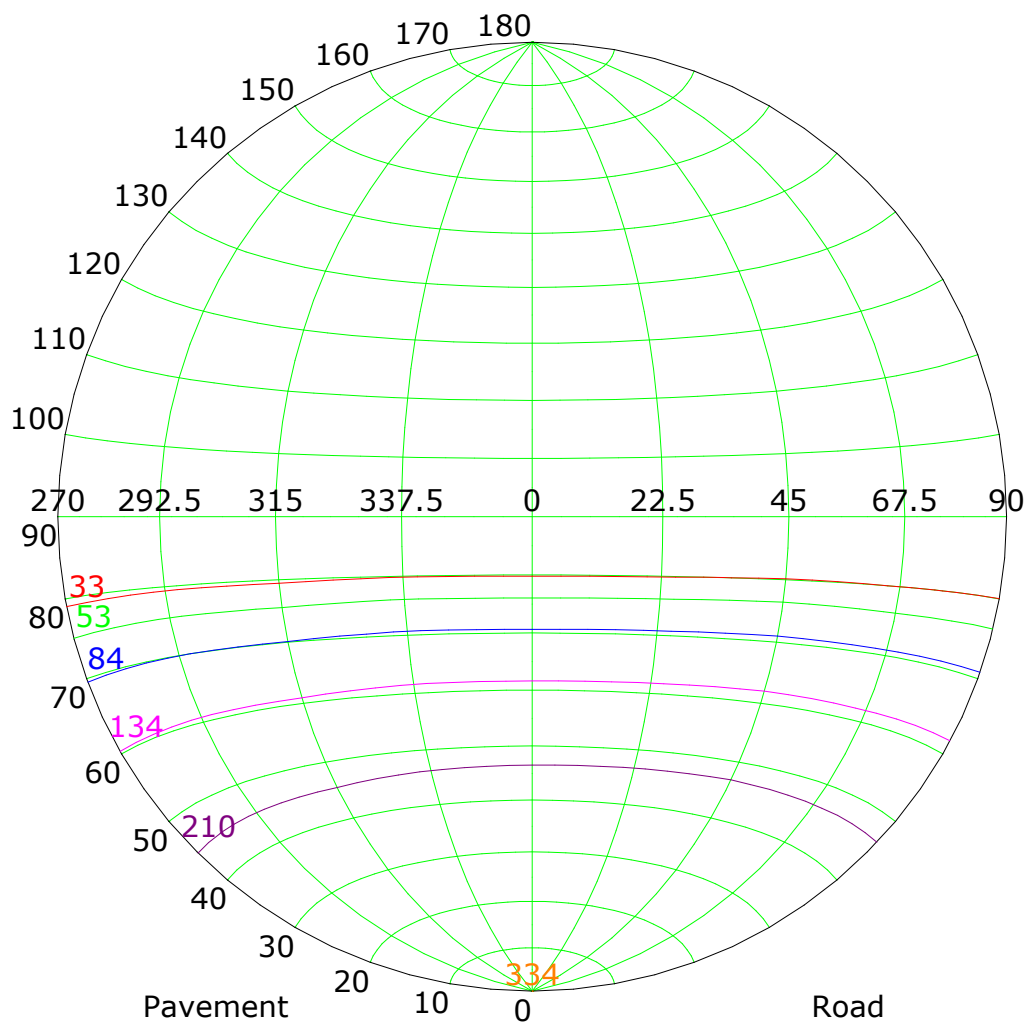
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 334 cd

(10%):	33 cd	(16%):	53 cd
(25%):	84 cd	(40%):	134 cd
(63%):	210 cd	(100%):	334 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

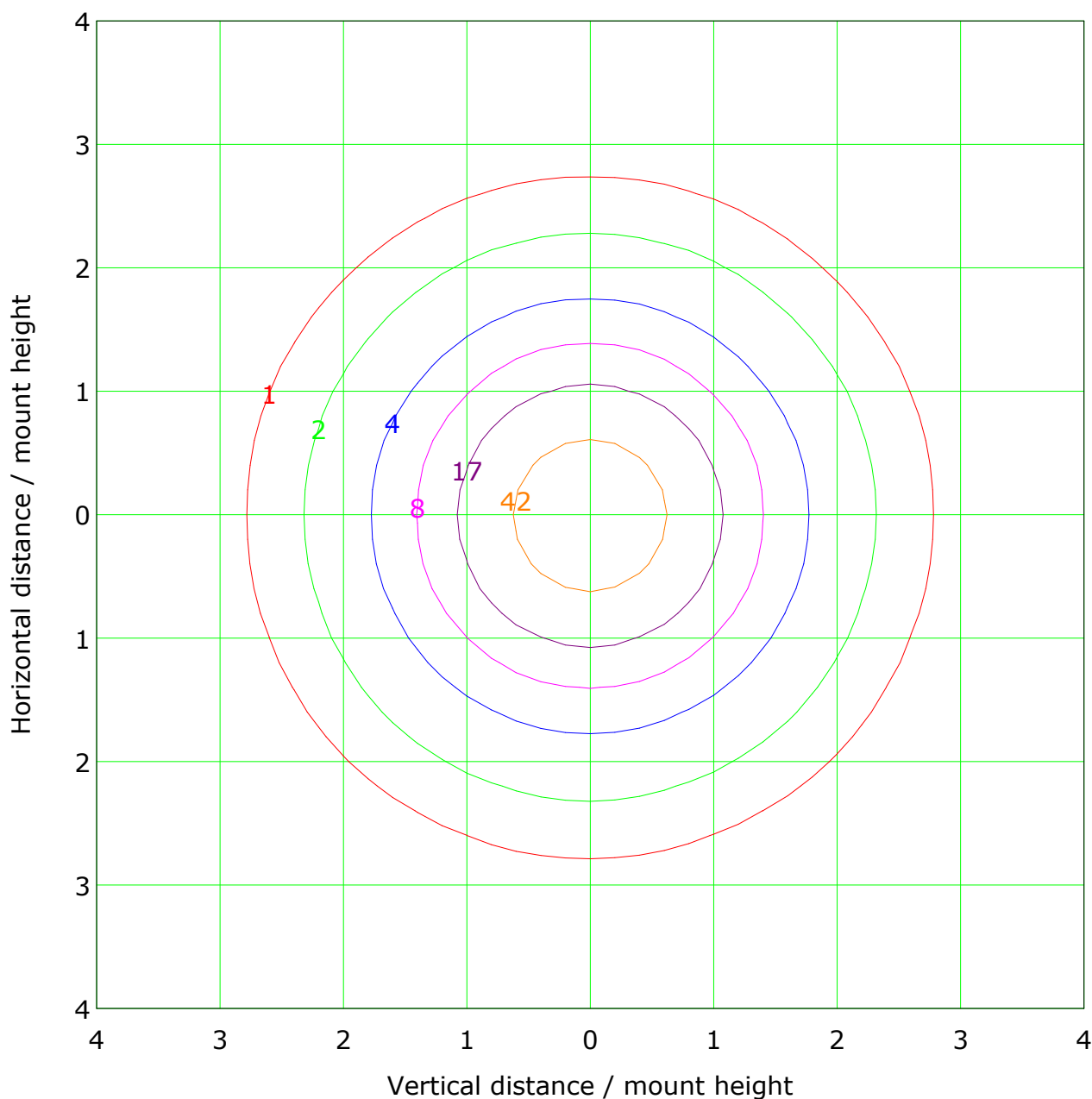
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 83.5 lx	
— (1%):	0.8 lx	— (2%):	1.7 lx
— (5%):	4.2 lx	— (10%):	8.4 lx
— (20%):	16.7 lx	— (50%):	41.8 lx
— (100%):	83.5 lx		

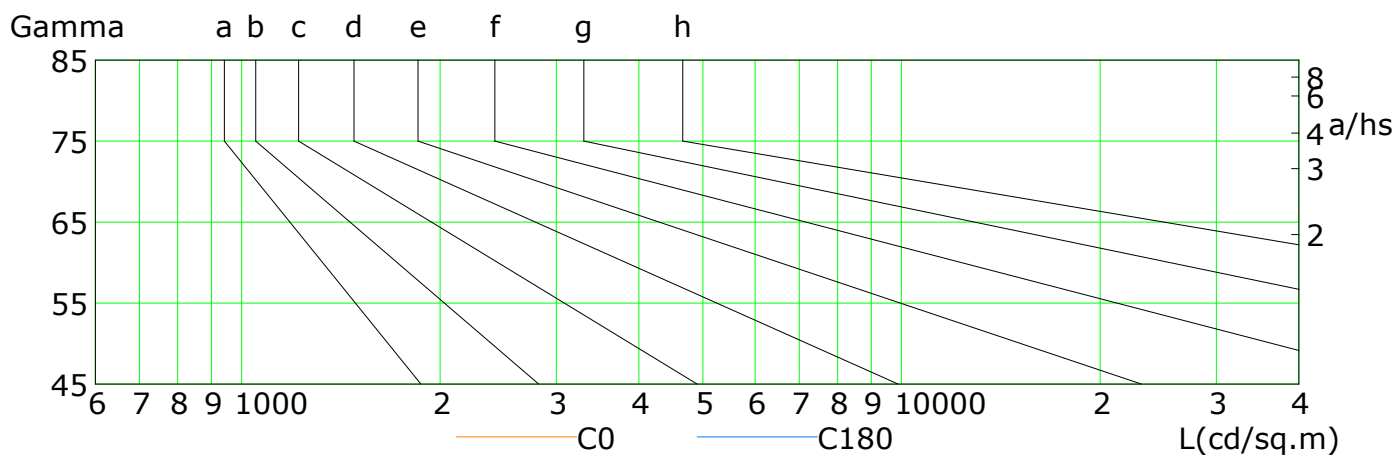
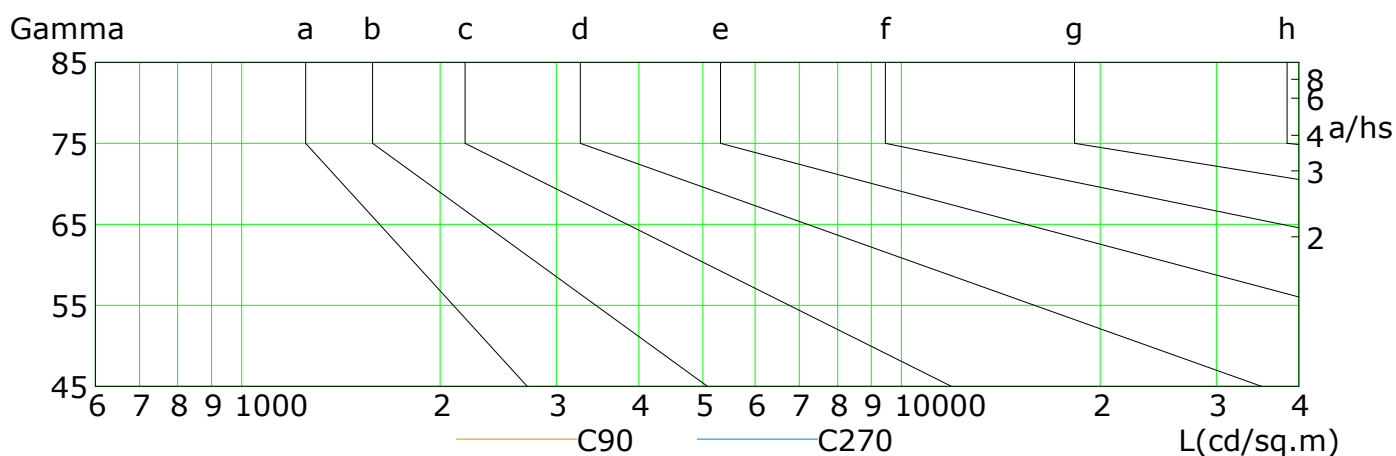
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

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

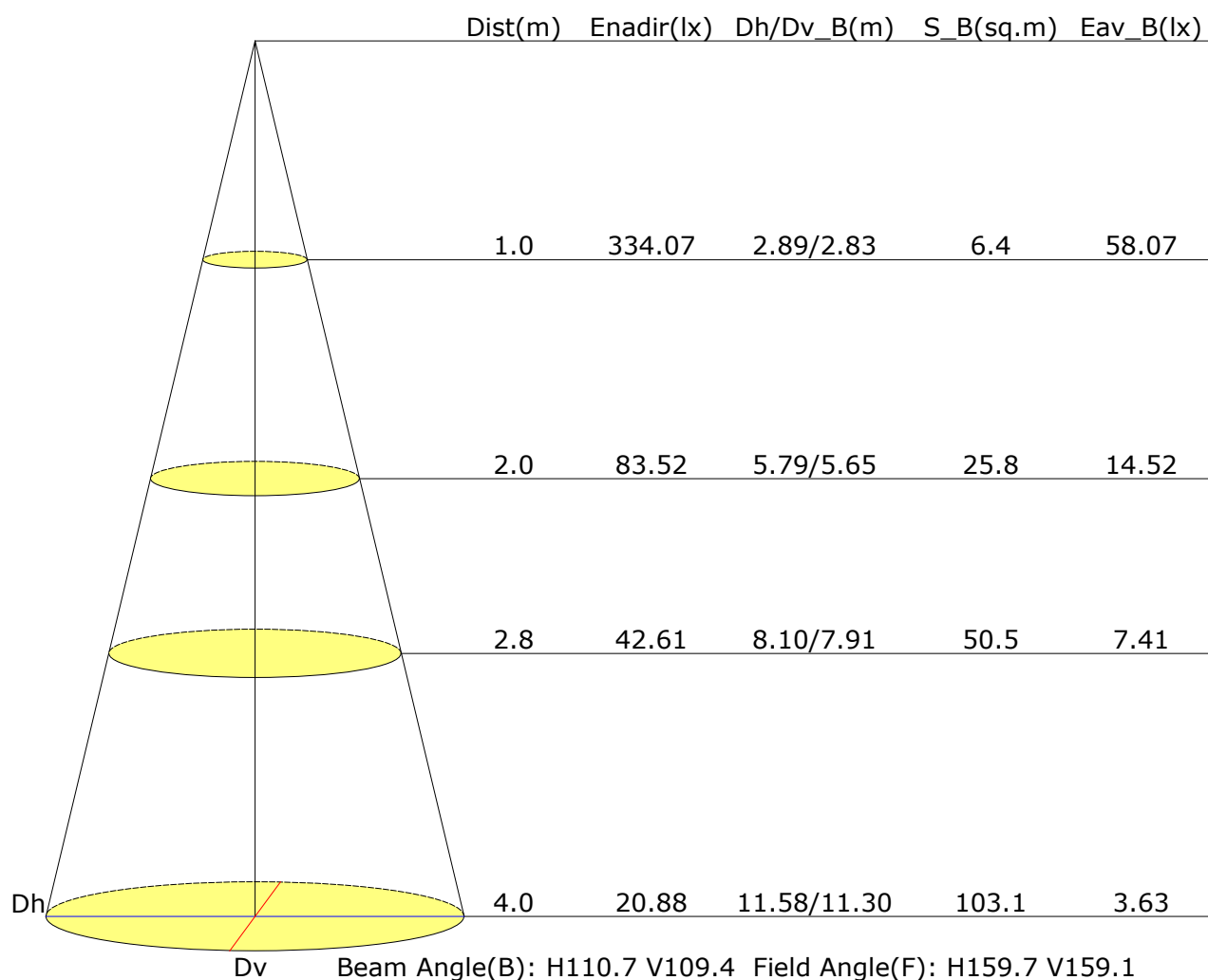


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	218	194	169	143	115	87	59	32	10
C90	218	195	170	143	116	88	60	34	12
C180	217	194	169	143	115	87	59	33	11
C270	210	186	161	135	108	81	54	29	9

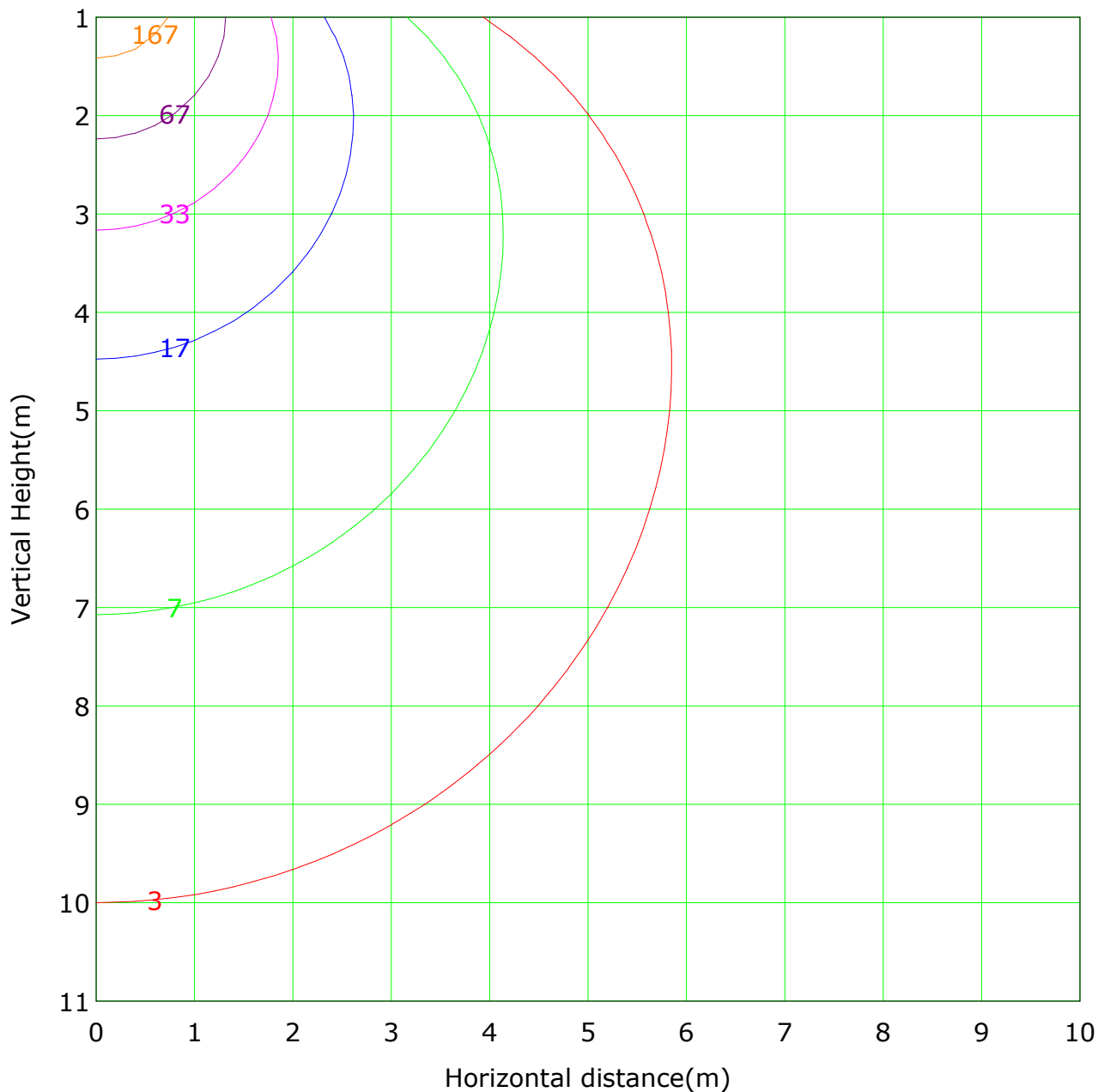
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 334.1 lx

— (1%): 3.3 lx	— (2%): 6.7 lx
— (5%): 16.7 lx	— (10%): 33.4 lx
— (20%): 66.8 lx	— (50%): 167.0 lx
— (100%): 334.1 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: 18/04/2025 15:36

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-AN07-03+LLD-03-FS

Lamp Description: F52-40s-1208F2/14.4

Number of Lamps: 1

Lumens per Lamp: 1491

Voltage: 24.01 V

Current: 0.502 A

Power: 13.26 W

Power Factor: 1

Photometric Results

CIE Class: Direct

Measurement Flux: 822 lm

Downward Ratio: 55.13%

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 55.13%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.5, 163.2, 163.4, 163.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.5, 109.8, 110.3, 110.3

Luminaire Efficacy Rating (LER): 62.04

Central Intensity: 292.06 cd

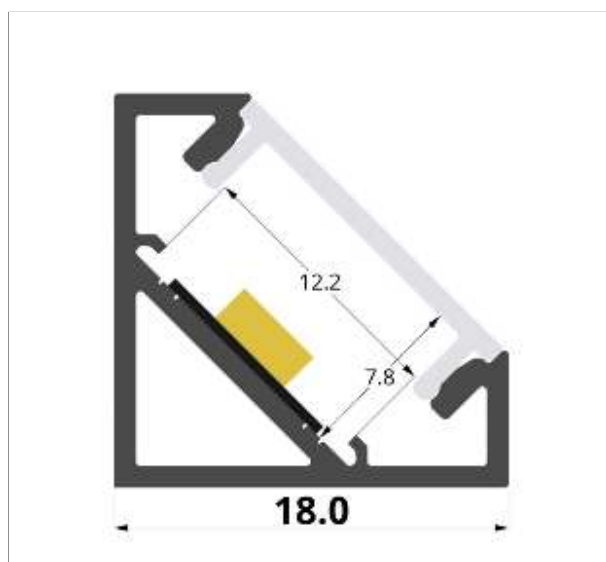
Max. Intensity: 292.06 cd

Pos of Max. Intensity: H0 V0

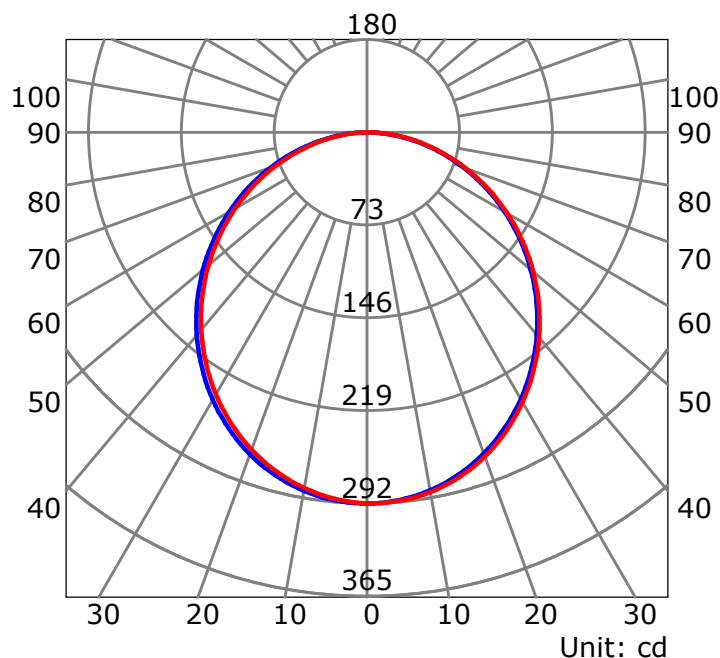
S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.23

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

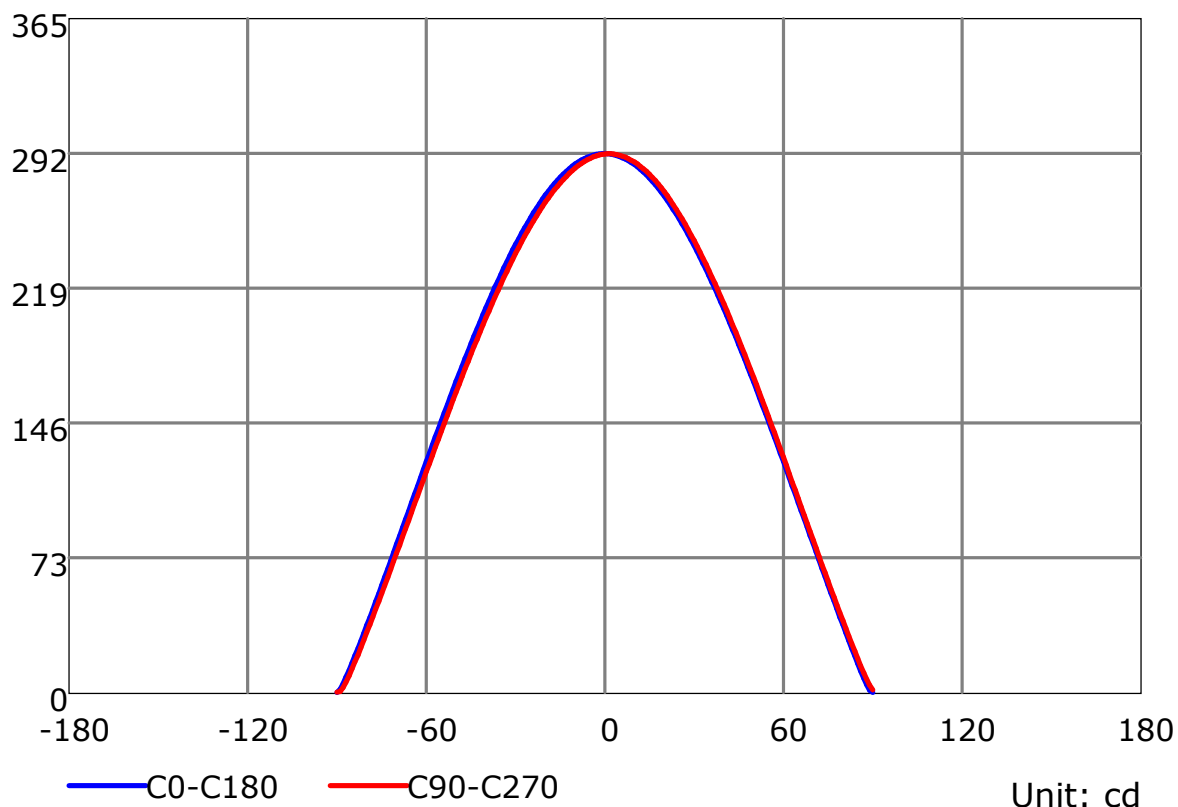
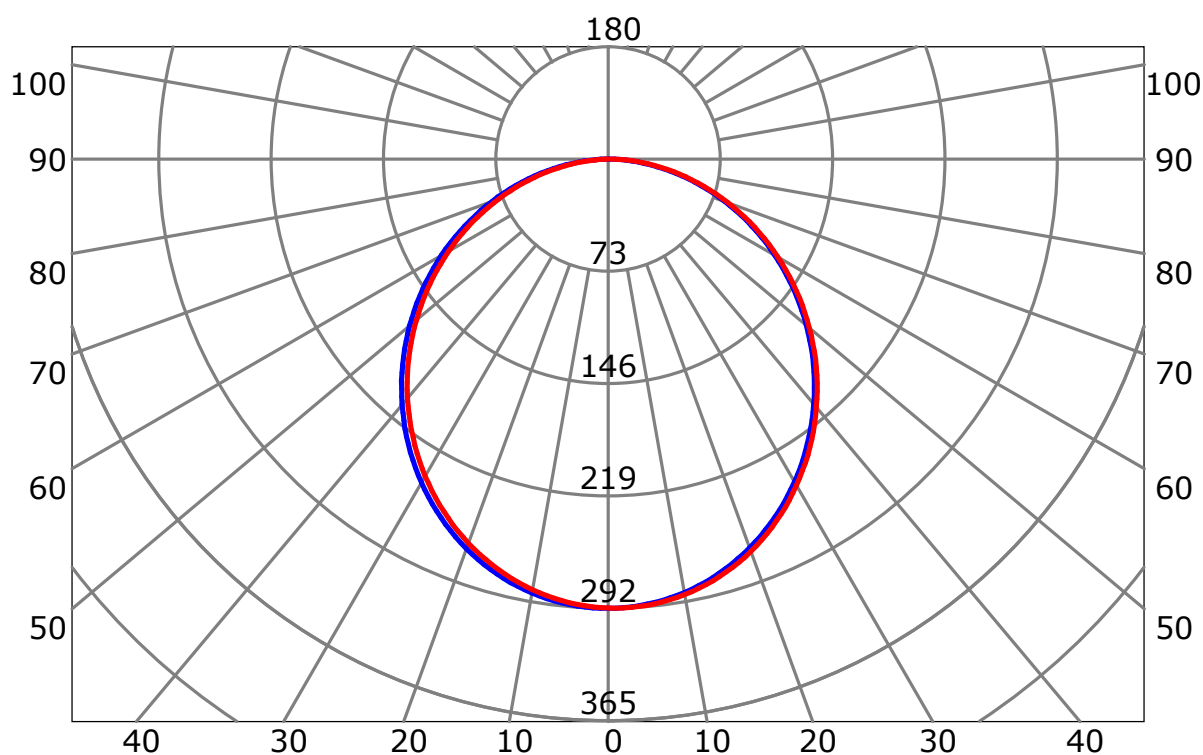
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

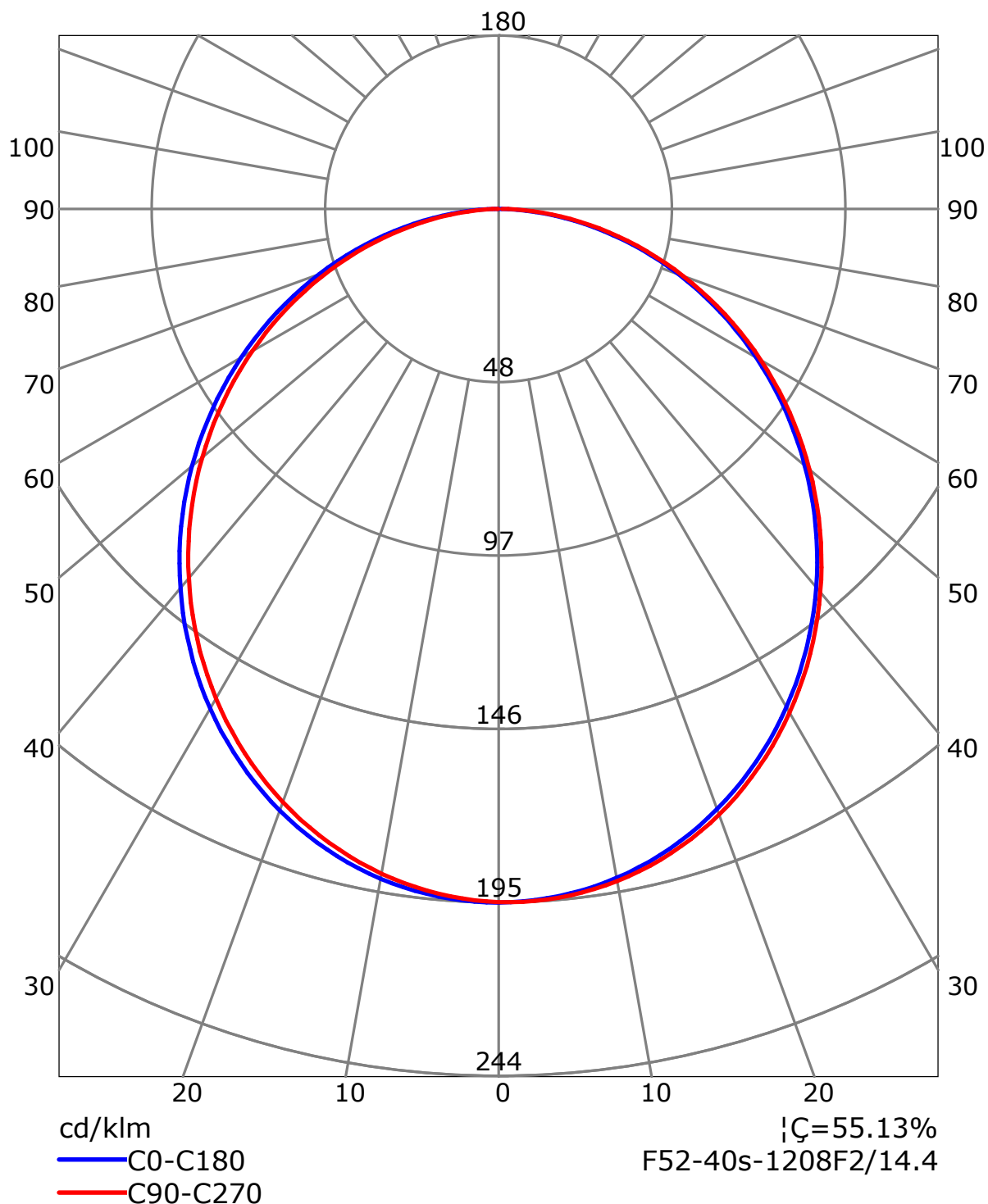
Luminous Intensity Distribution Curve



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:

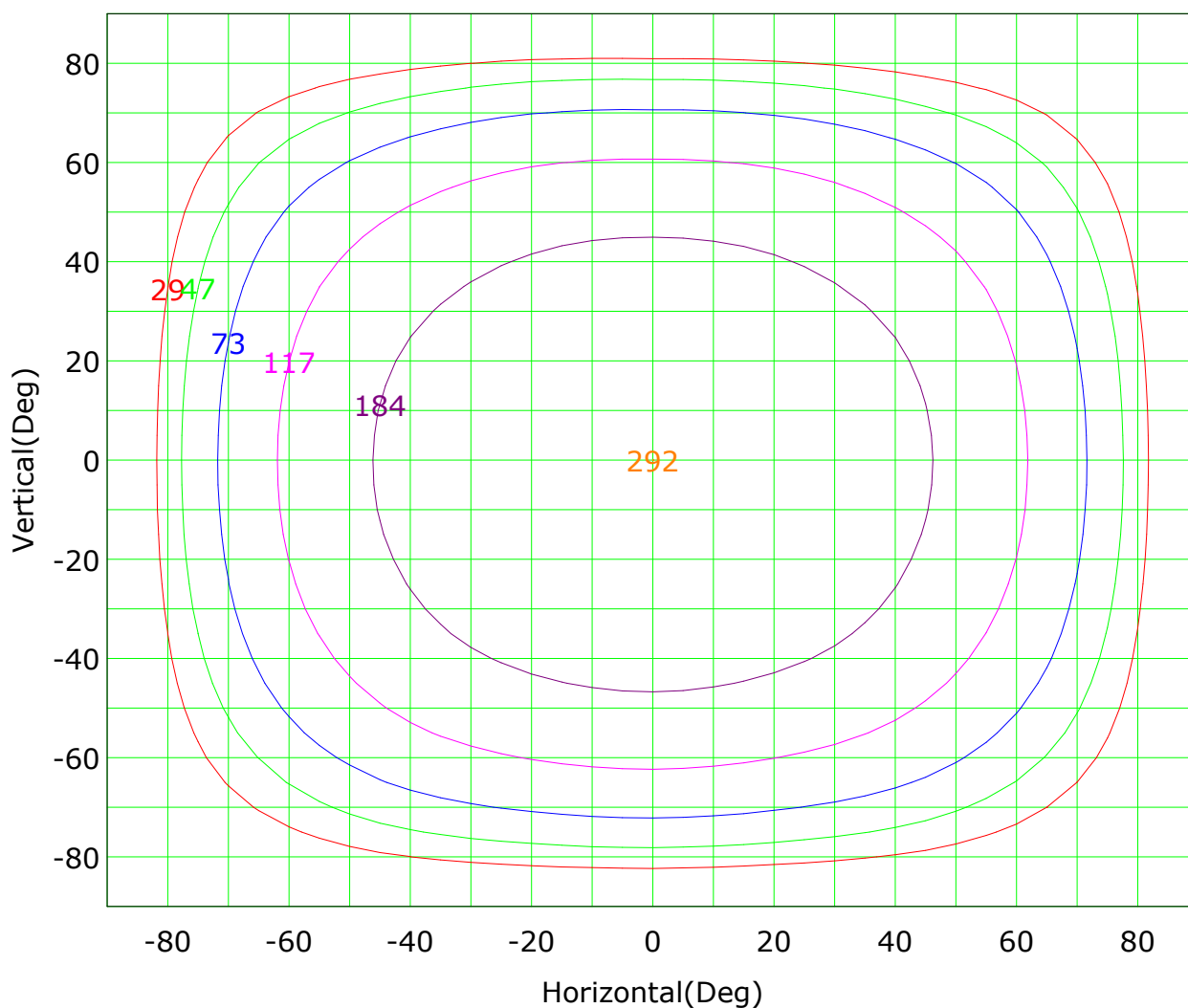
Luminous Intensity Distribution Curve(cd/klm)



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%): 292 cd

(10%):	29 cd	(16%):	47 cd
(25%):	73 cd	(40%):	117 cd
(63%):	184 cd	(100%):	292 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

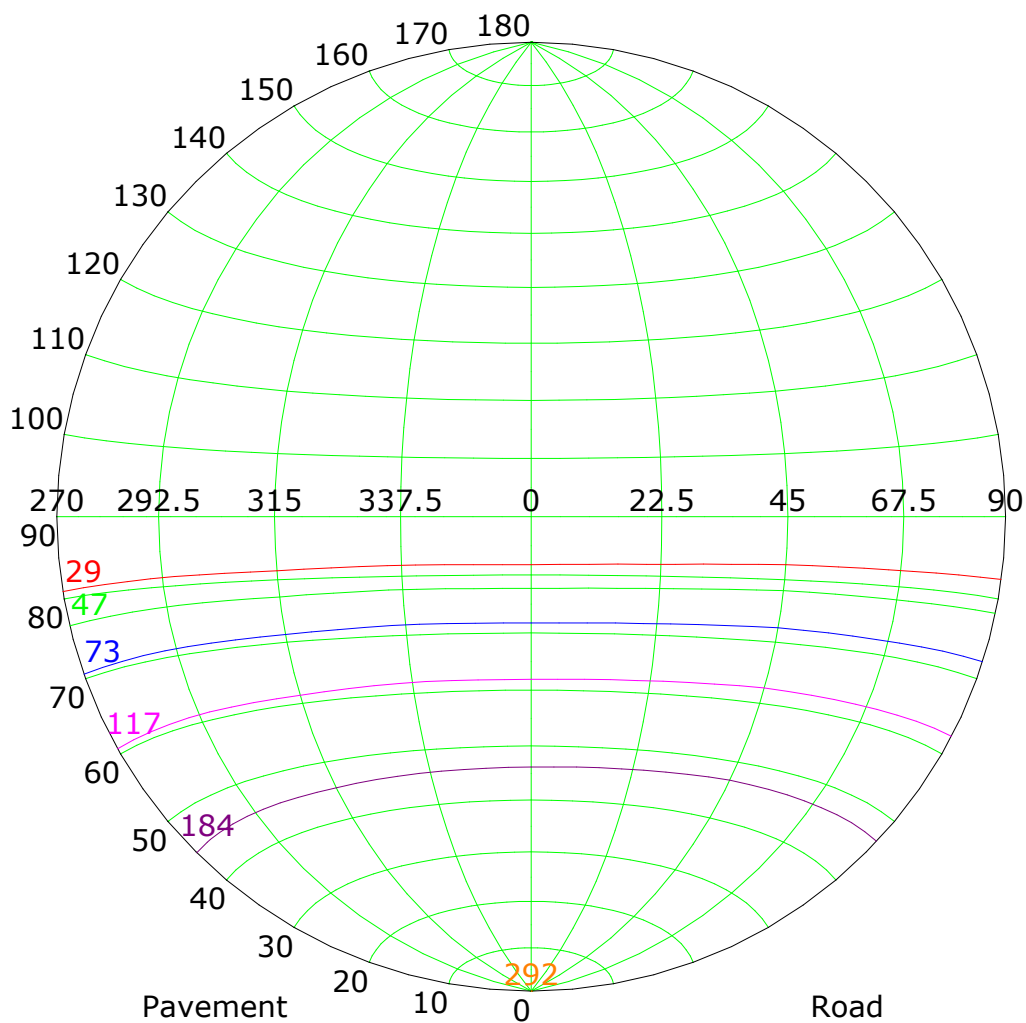
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 292 cd

(10%):	29 cd	(16%):	47 cd
(25%):	73 cd	(40%):	117 cd
(63%):	184 cd	(100%):	292 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

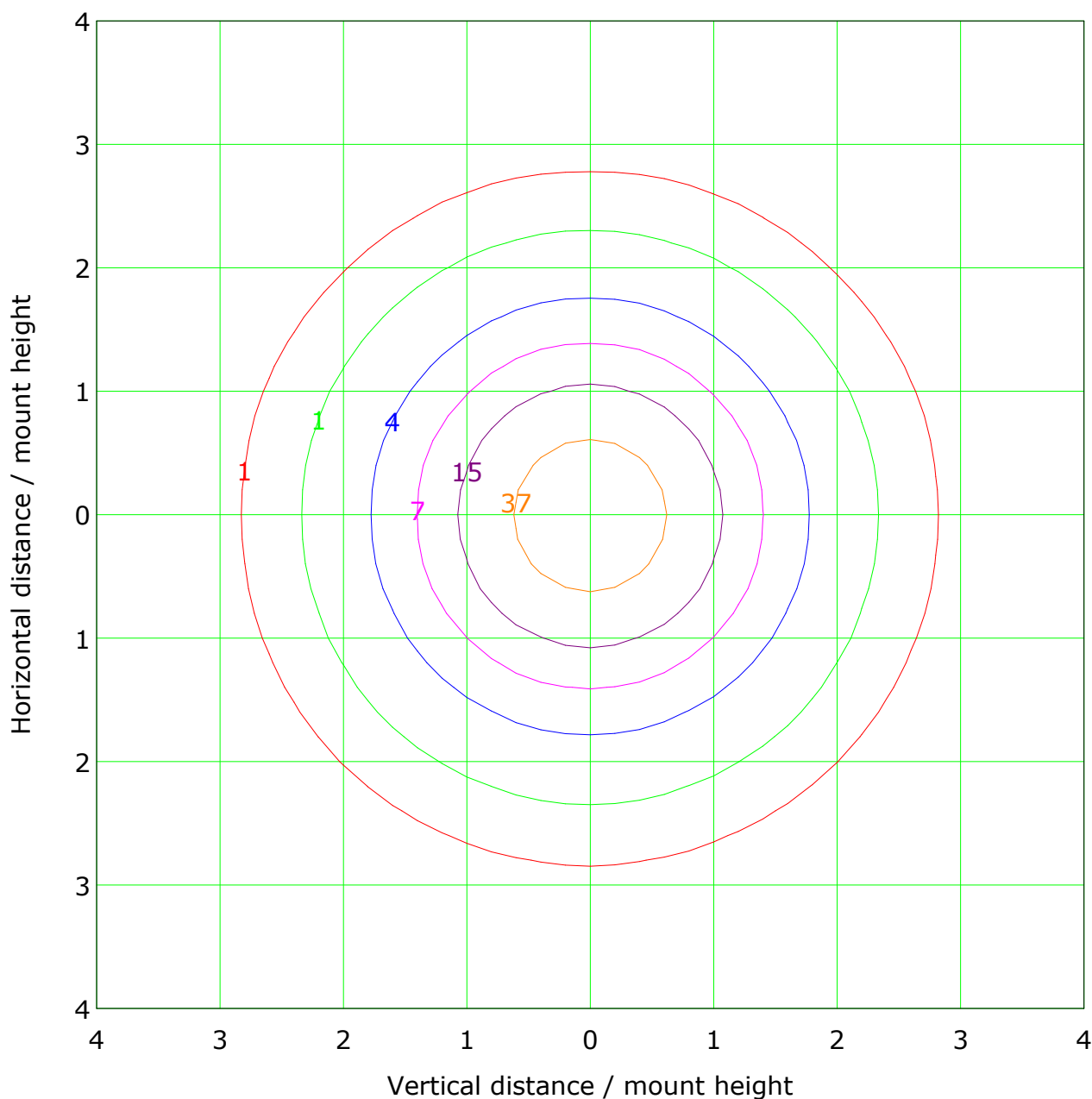
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 73.0 lx	
— (1%):	0.7 lx	— (2%):	1.5 lx
— (5%):	3.7 lx	— (10%):	7.3 lx
— (20%):	14.6 lx	— (50%):	36.5 lx
— (100%):	73.0 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

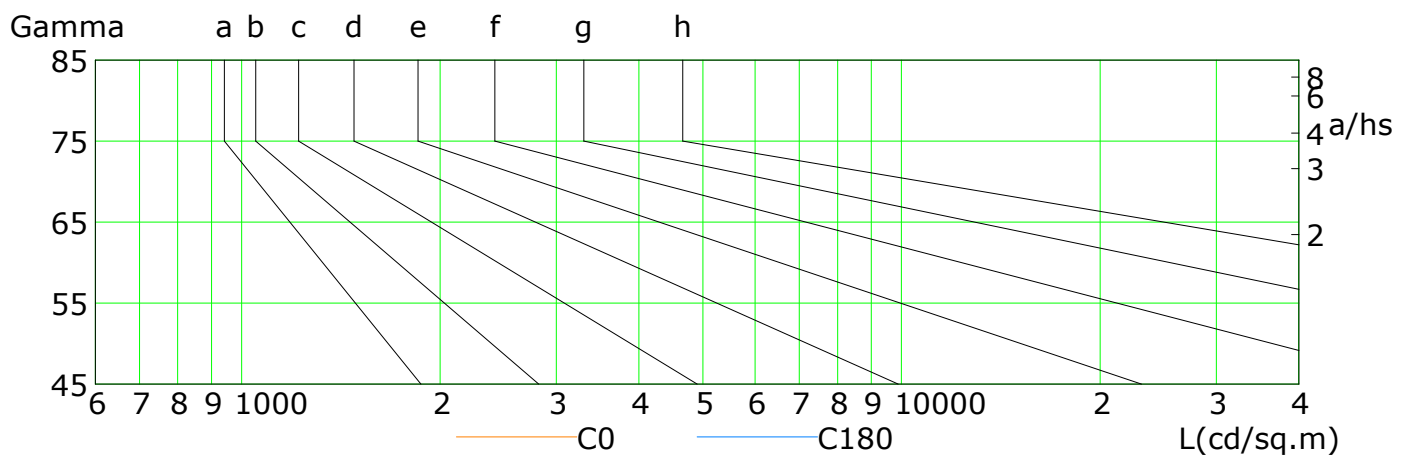
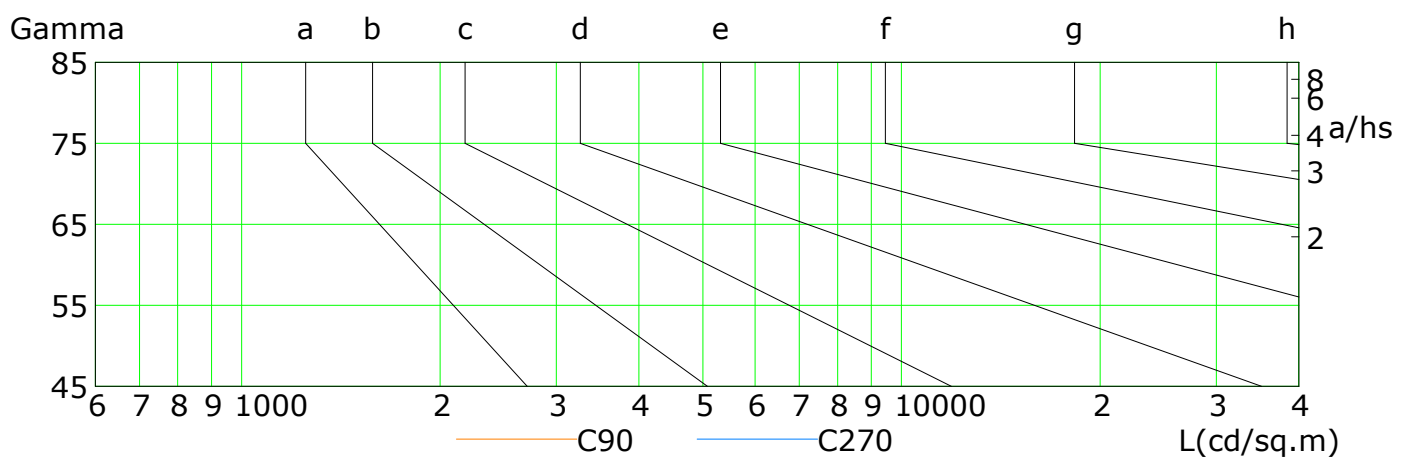
Humidity:

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	189	168	147	125	103	81	58	37	16
C90	191	171	150	127	105	83	61	39	18
C180	189	169	147	125	103	80	58	36	16
C270	184	163	142	120	98	76	54	33	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

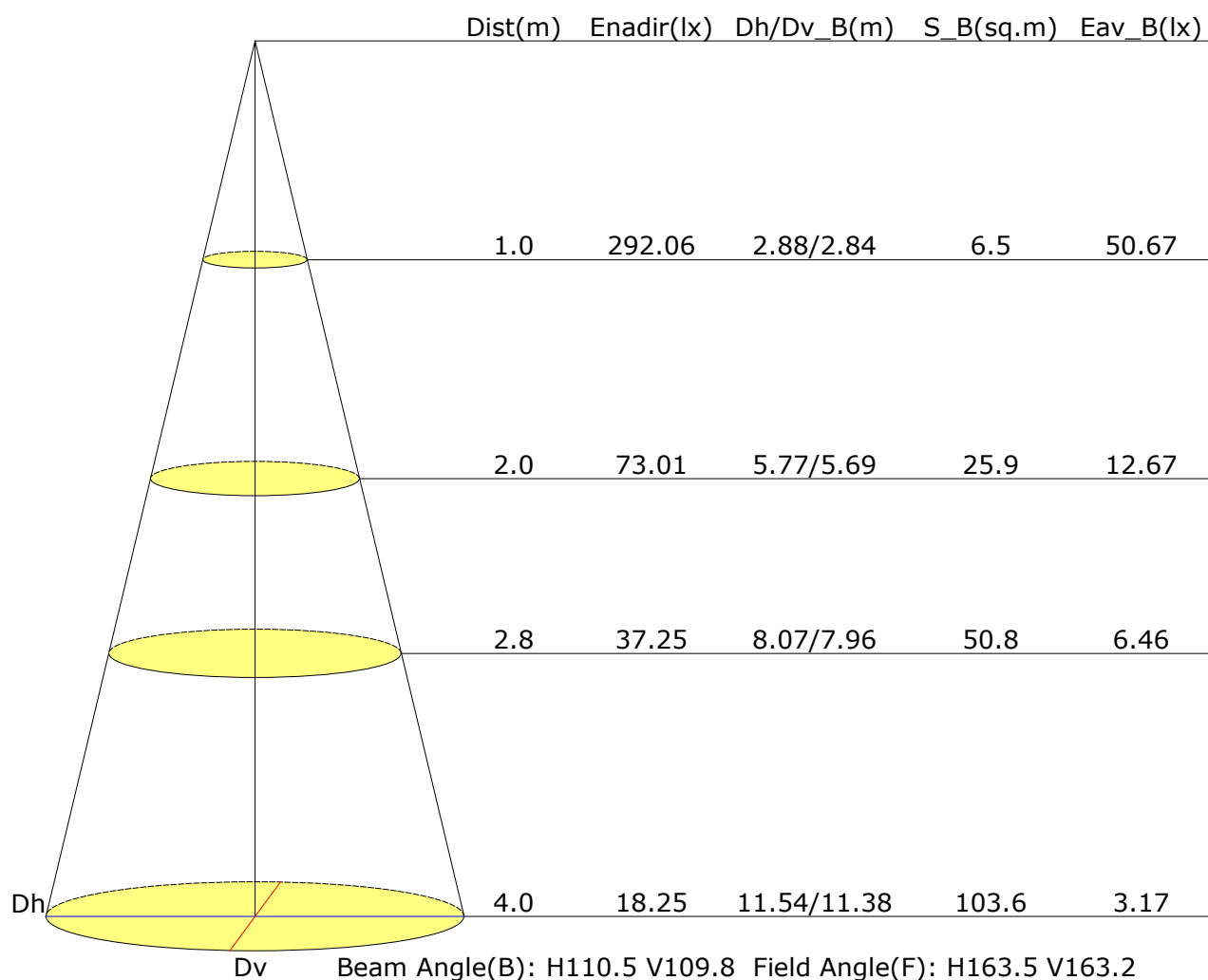
Test Device: GPM-1800B

Distance: 7.792 m

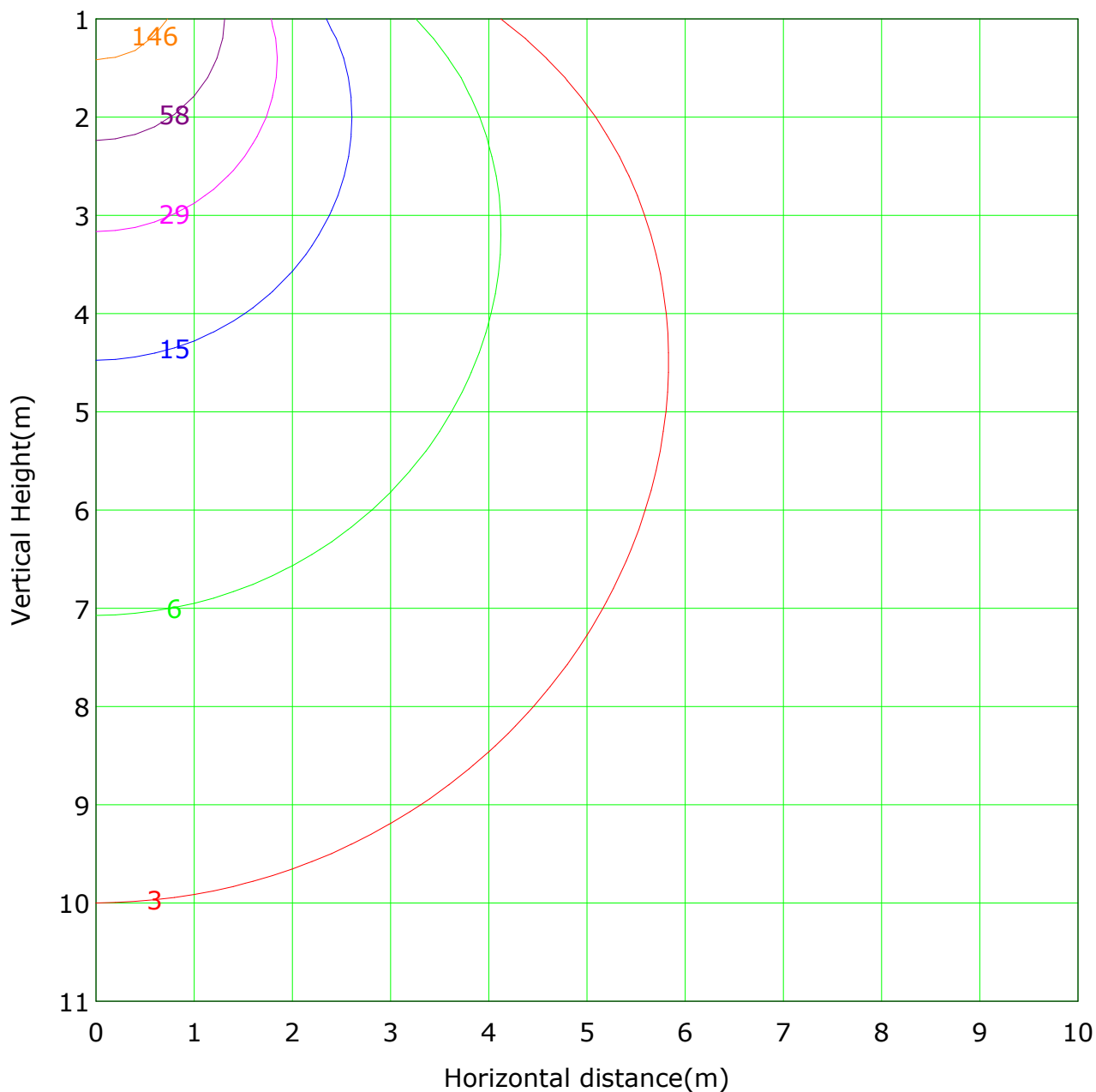
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 292.1 lx

— (1%): 2.9 lx	— (2%): 5.8 lx
— (5%): 14.6 lx	— (10%): 29.2 lx
— (20%): 58.4 lx	— (50%): 146.0 lx
— (100%): 292.1 lx	

Report No.:

Test Time: 18/04/2025 18:37

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-AN07-03+LLD-03-FW

Lamp Description: F52-40s-1208F2/14.4

Lumens per Lamp: 1491.0 lm

Luminous Width (mm): 0 mm

Voltage: 24.01 V

Power: 13.26 W

Number of Lamps: 1

Luminous Length (mm): 0 mm

Luminous Height (mm): 0 mm

Current: 0.502 A

Power Factor: 1

Photometric Results

CIE Class: Direct

Measurement Flux: 730.7 lm

Downward Ratio: 49.01%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.2, 164.4, 164.3, 164.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.3, 114.0, 113.7, 113.7

Luminaire Efficacy Rating (LER): 55.16

Max. Intensity: 250.51 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 49.01%

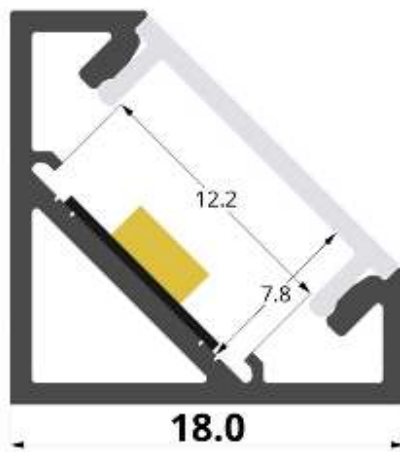
Upward Ratio: 0.00%

Central Intensity: 250.45 cd

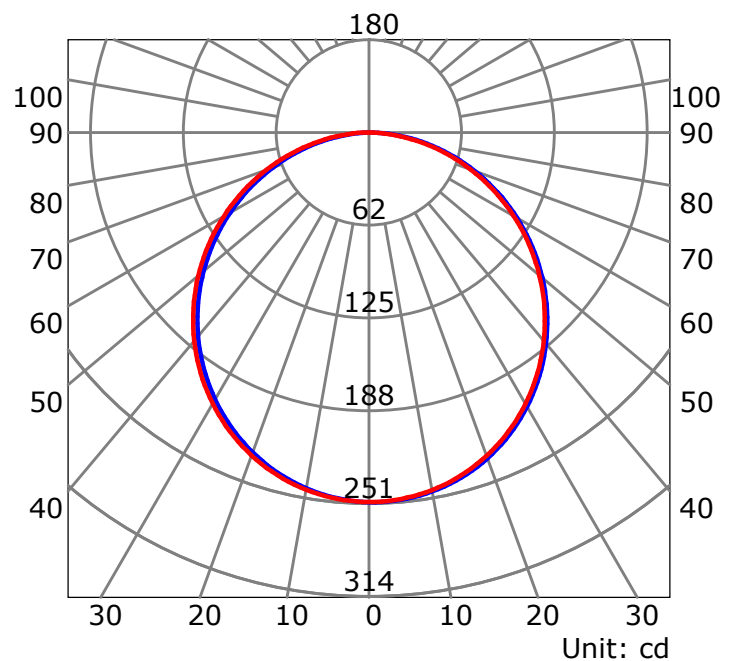
Pos of Max. Intensity: H0 V1

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 (°):0.0-90.0:1.0

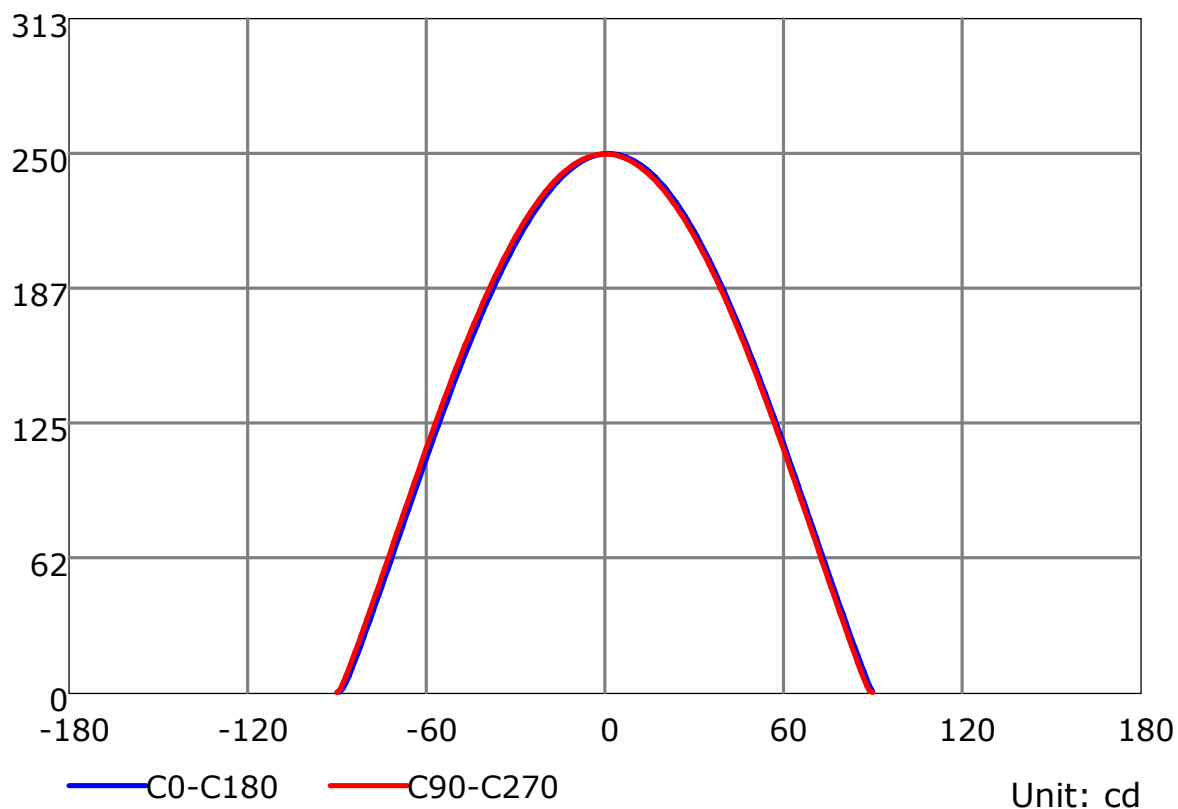
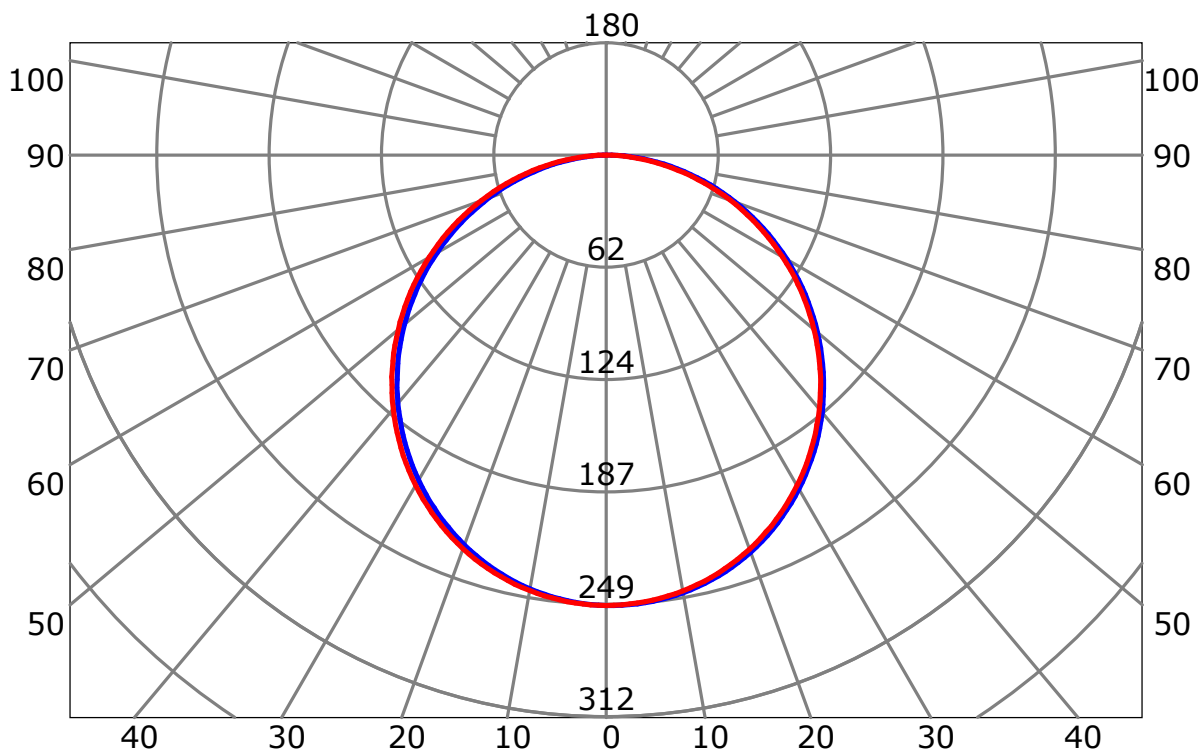
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

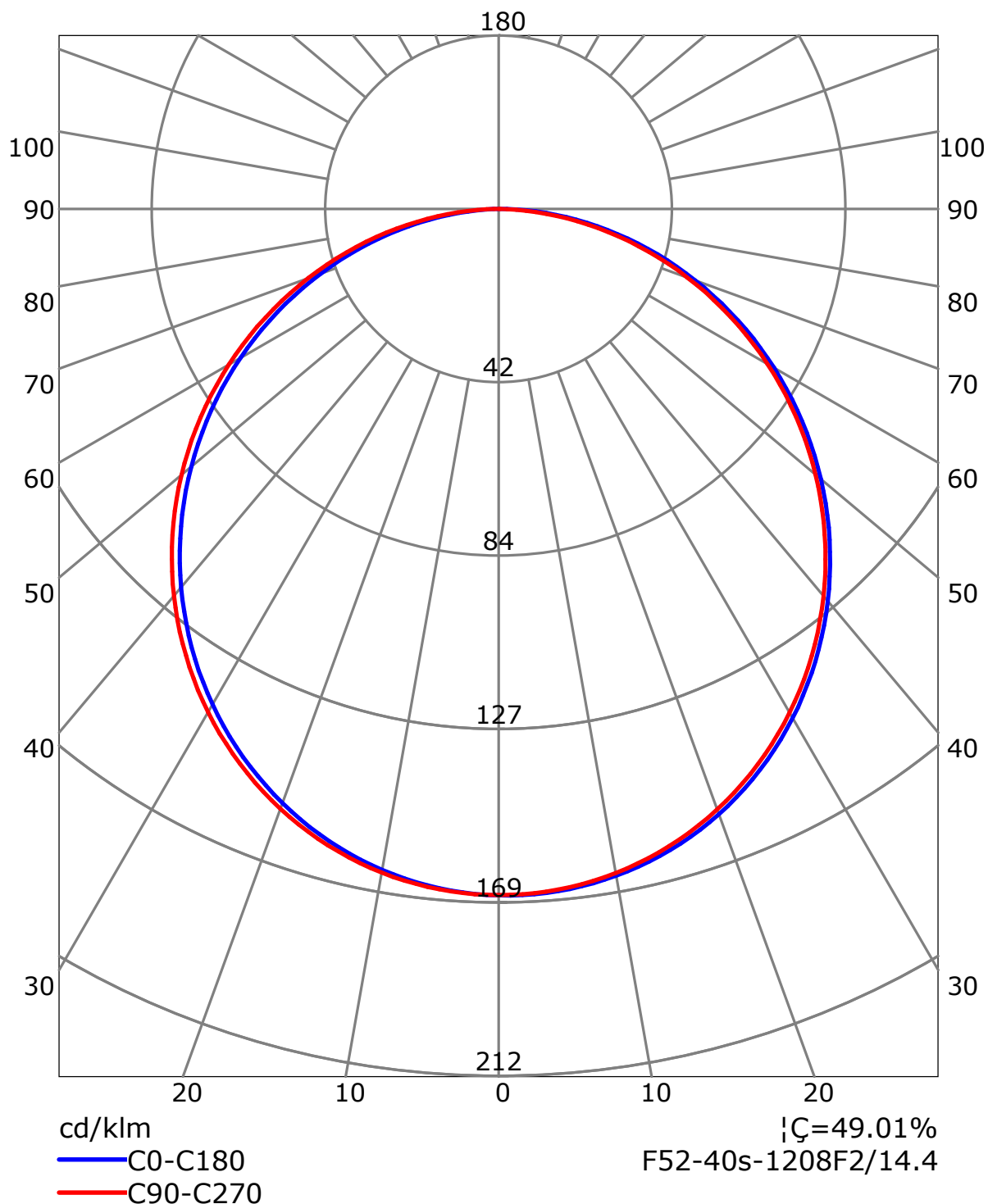
Luminous Intensity Distribution Curve



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:

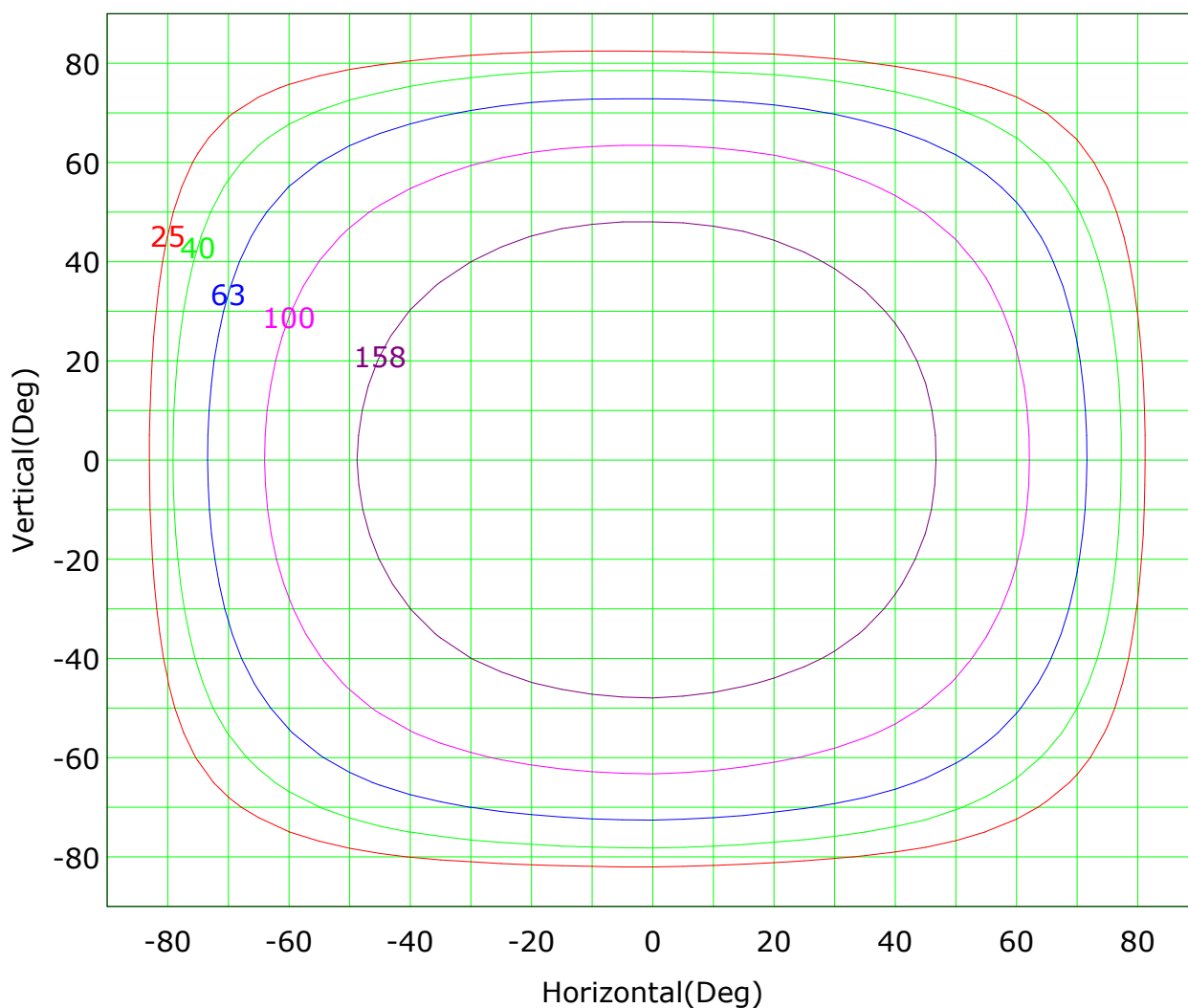
Luminous Intensity Distribution Curve(cd/klm)



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%): 251 cd

(10%):	25 cd	(16%):	40 cd
(25%):	63 cd	(40%):	100 cd
(63%):	158 cd	(100%):	251 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

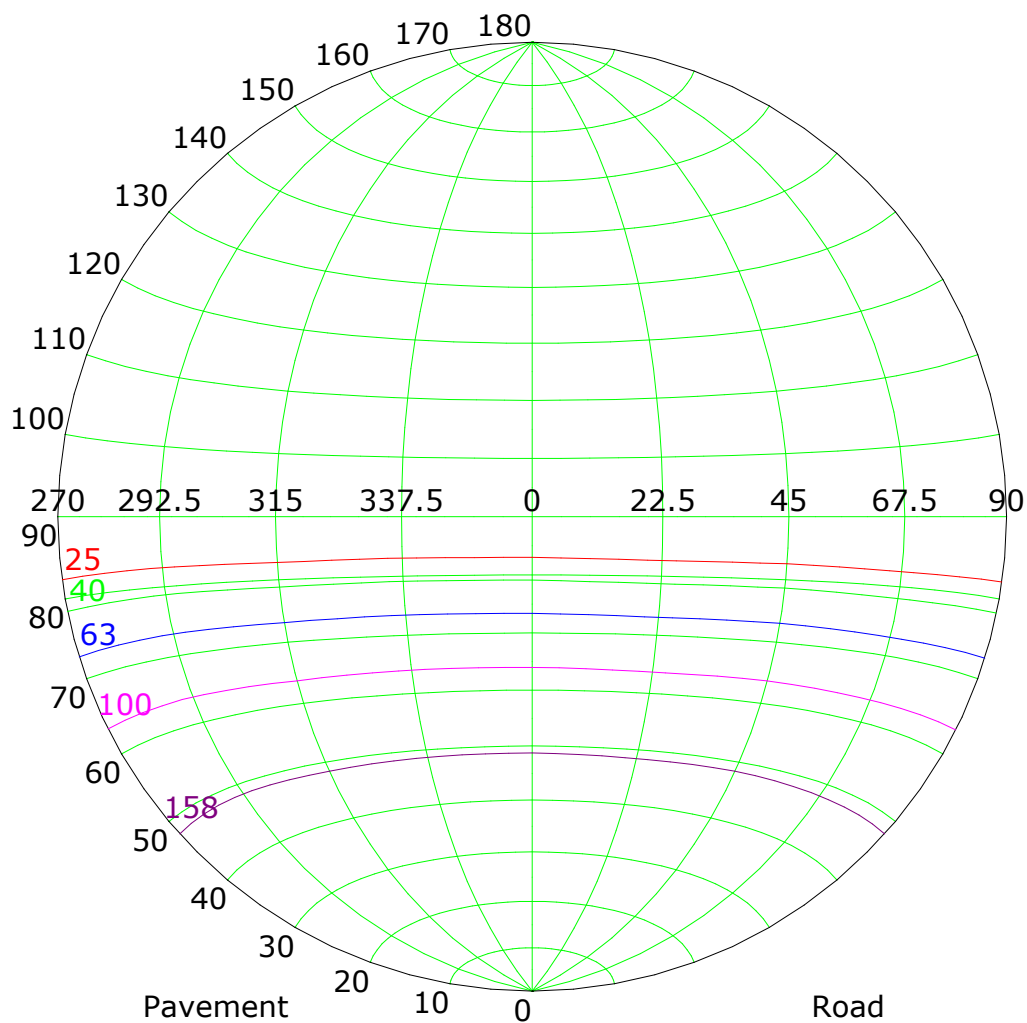
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 251 cd

(10%):	25 cd	(16%):	40 cd
(25%):	63 cd	(40%):	100 cd
(63%):	158 cd	(100%):	251 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

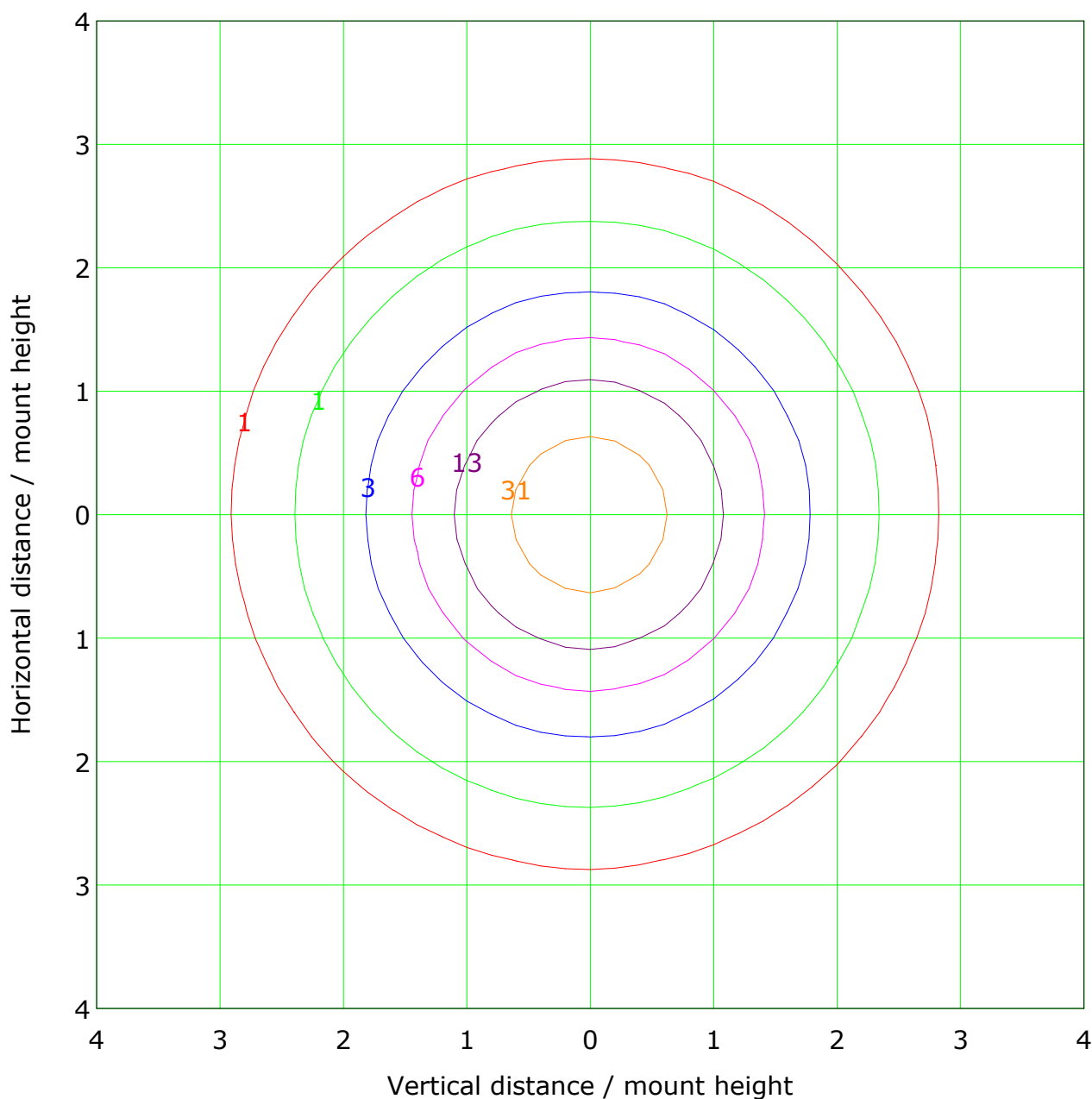
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 62.6 lx	
— (1%):	0.6 lx	— (2%):	1.3 lx
— (5%):	3.1 lx	— (10%):	6.3 lx
— (20%):	12.5 lx	— (50%):	31.3 lx
— (100%):	62.6 lx		

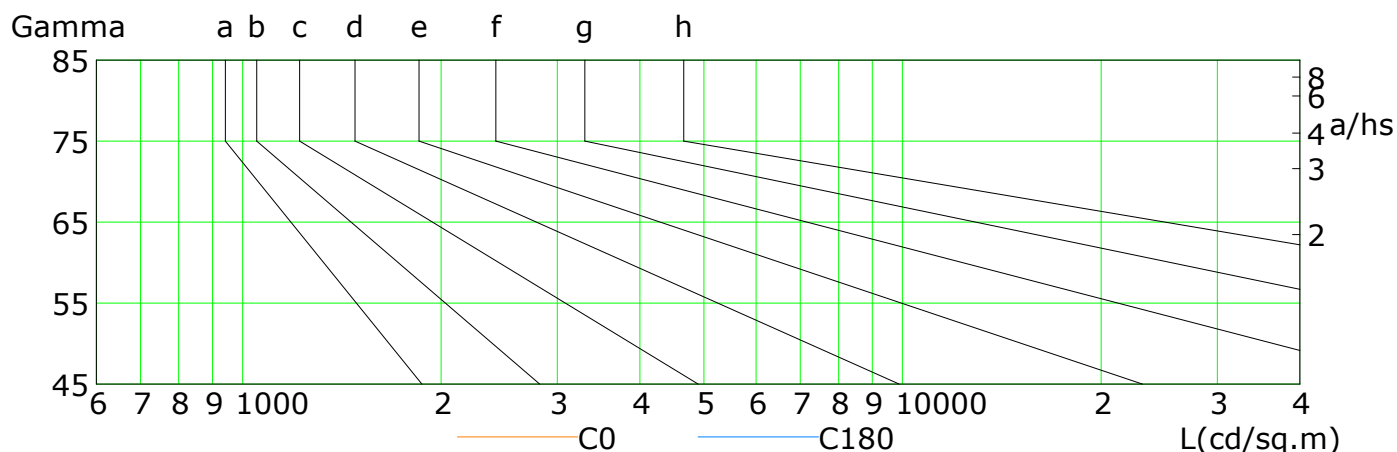
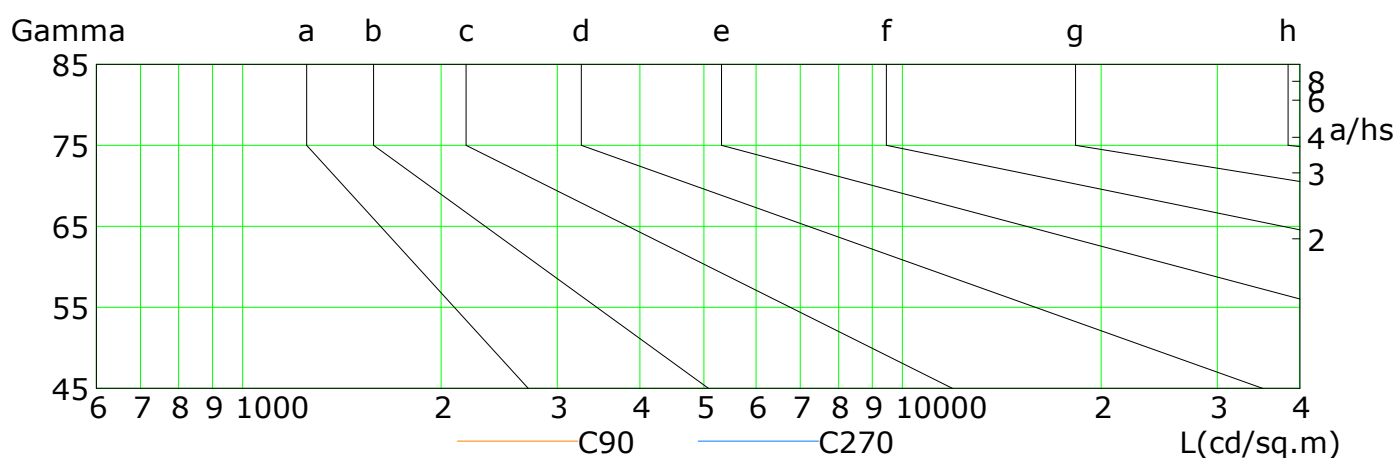
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

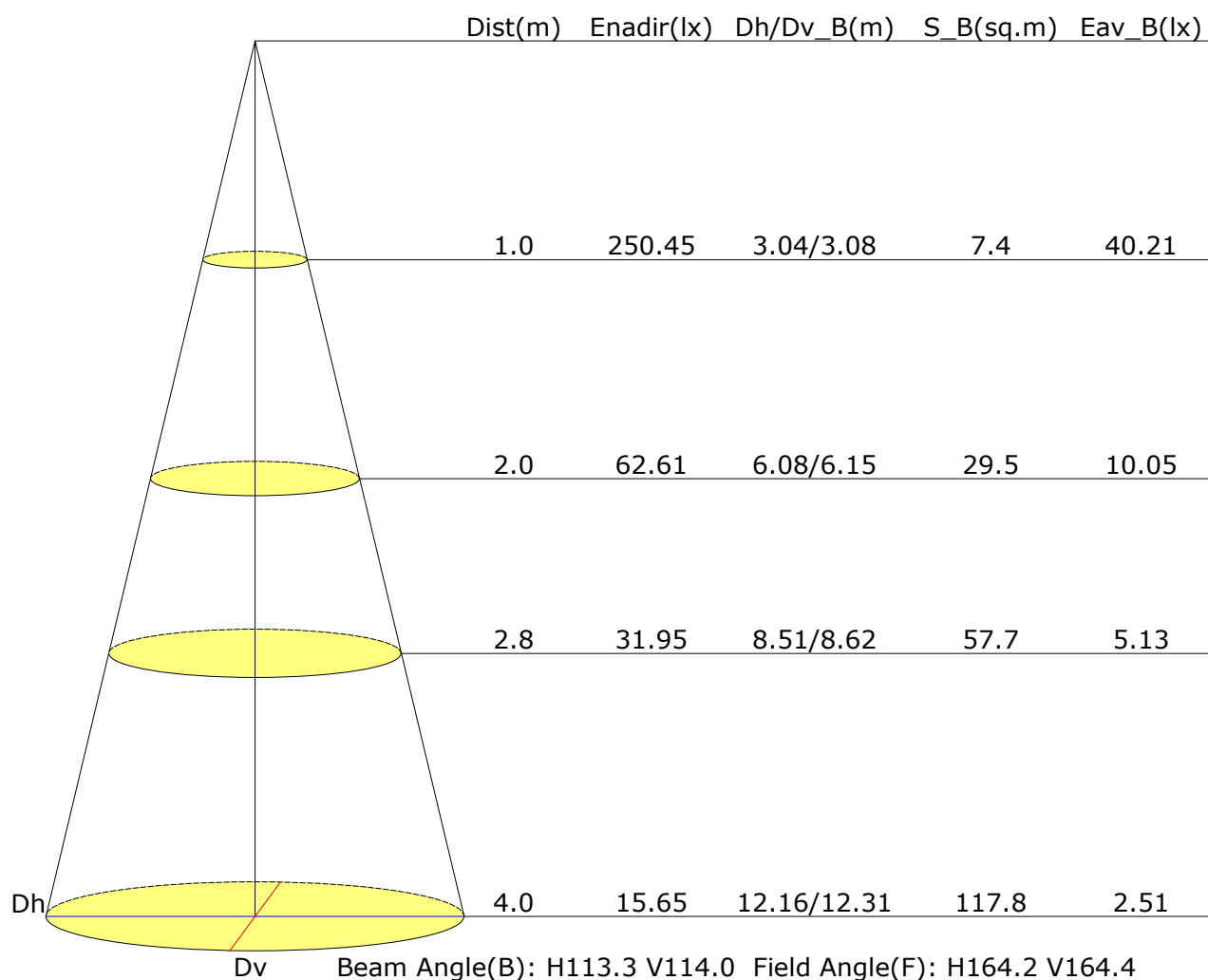


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	171	153	135	116	96	76	56	37	17
C90	168	151	133	113	93	73	53	33	14
C180	164	146	128	109	89	69	49	30	11
C270	168	151	133	114	94	74	54	34	15

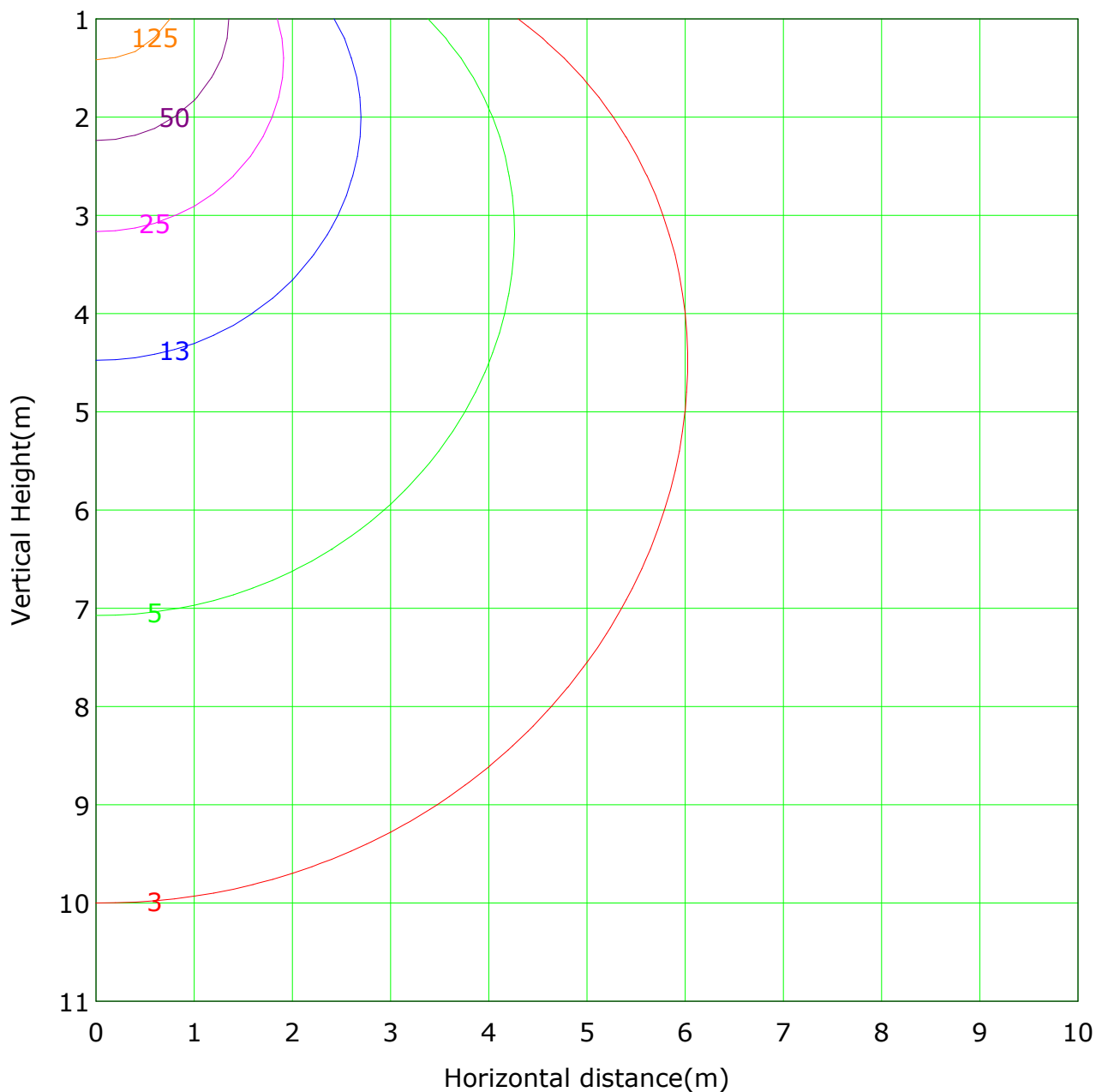
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 250.4 lx

— (1%): 2.5 lx	— (2%): 5.0 lx
— (5%): 12.5 lx	— (10%): 25.0 lx
— (20%): 50.1 lx	— (50%): 125.2 lx
— (100%): 250.4 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: 18/04/2025 19:34

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-AN07-03+LLD-03-FB

Lamp Description: F52-40s-1208F2/14.4

Number of Lamps: 1

Lumens per Lamp: 1491

Voltage: 24.01 V

Current: 0.502 A

Power: 13.26 W

Power Factor: 1

Photometric Results

CIE Class: Direct

Measurement Flux: 204.1 lm

Downward Ratio: 13.69%

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 13.69%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 147.6, 149.5, 148.6, 148.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 84.0, 88.7, 86.3, 86.3

Luminaire Efficacy Rating (LER): 15.45

Central Intensity: 98.09 cd

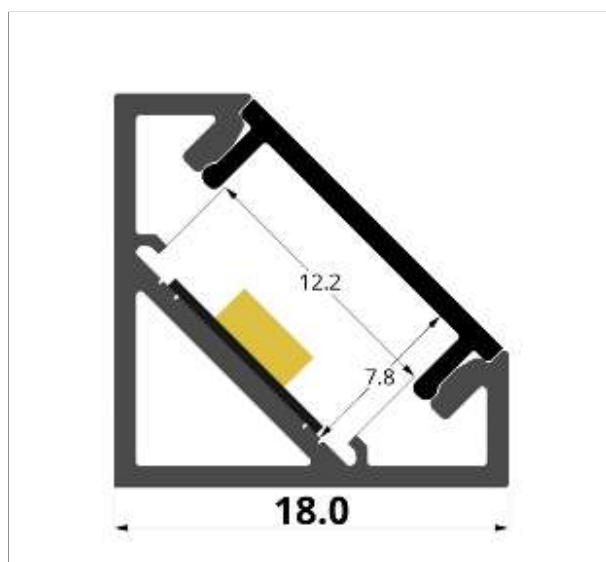
Max. Intensity: 98.1 cd

Pos of Max. Intensity: H112.5 V0

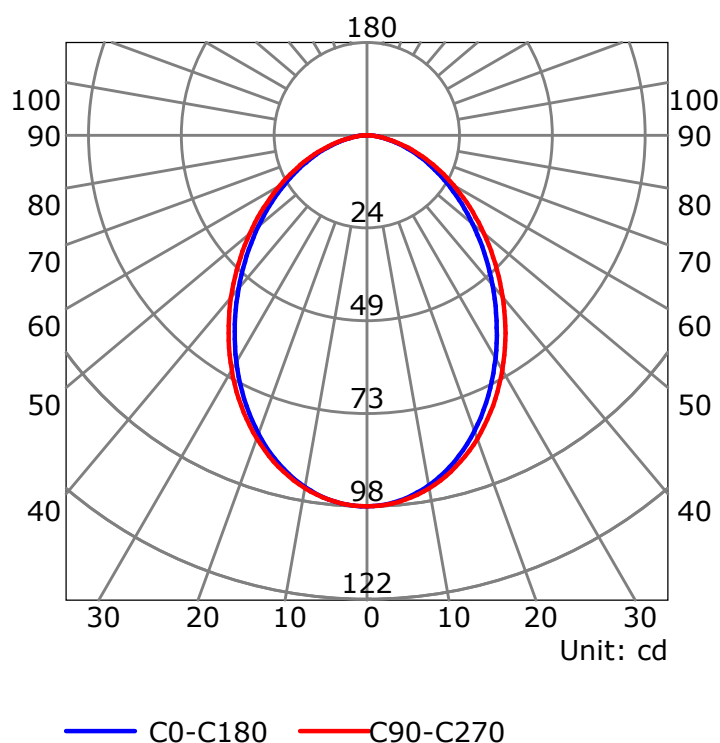
S/MH(C0/C180): 1.07

S/MH(C90/C270): 1.11

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

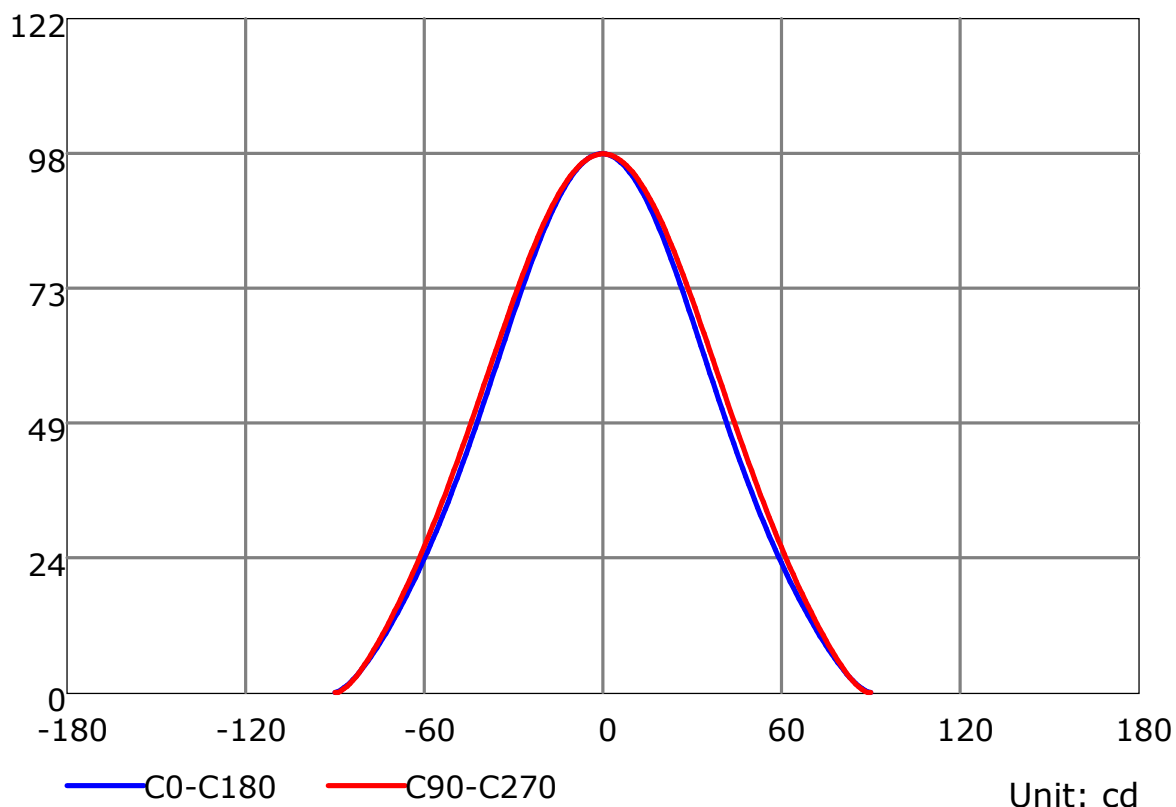
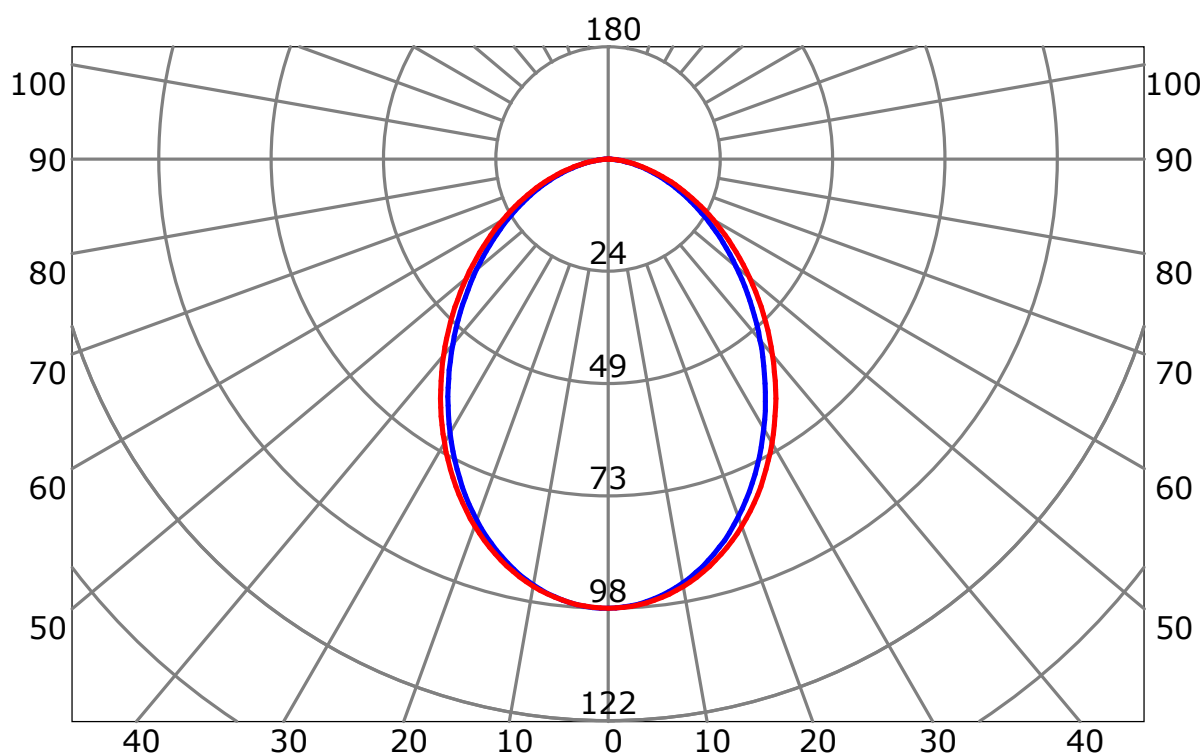
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

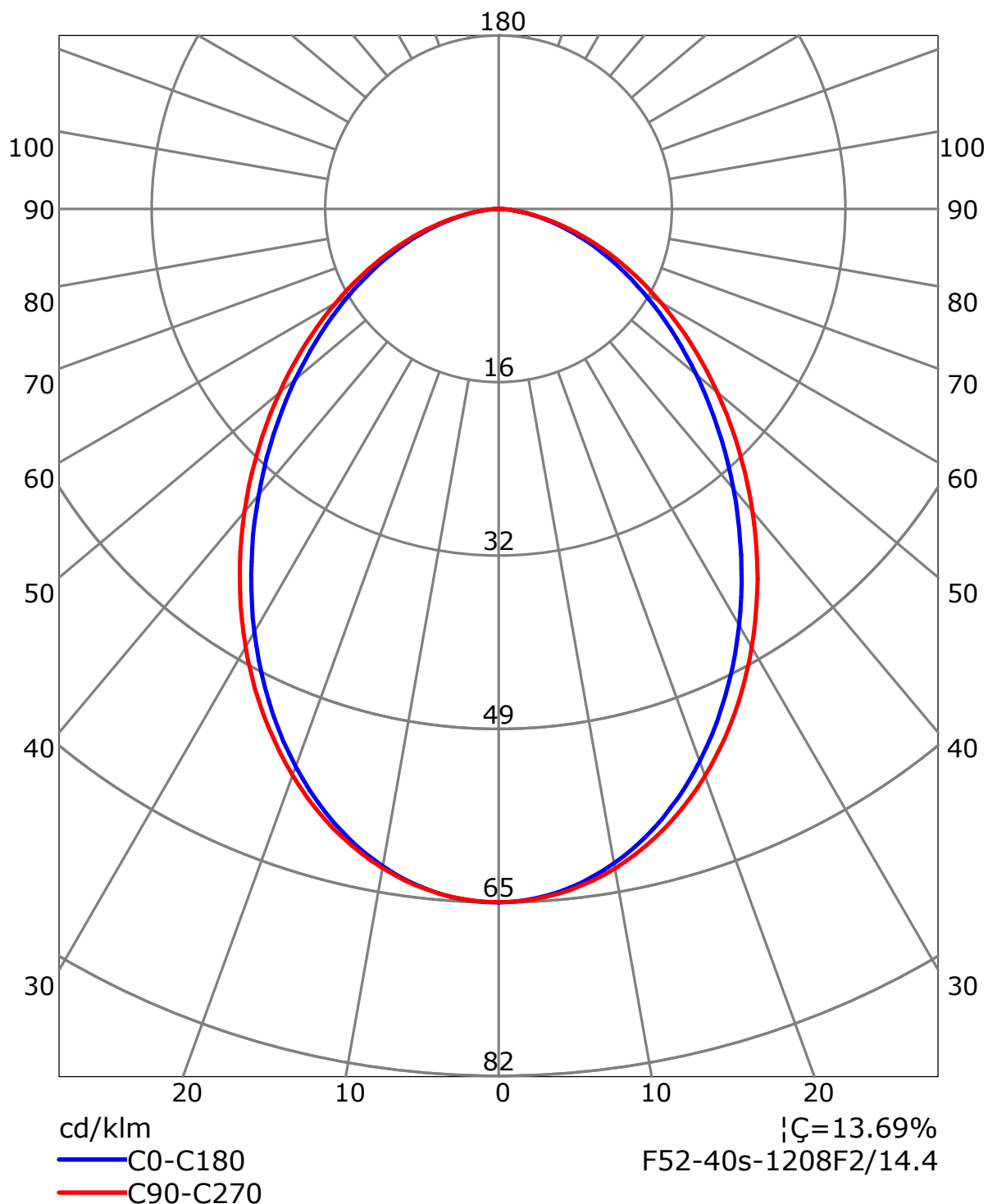


Unit: cd

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:

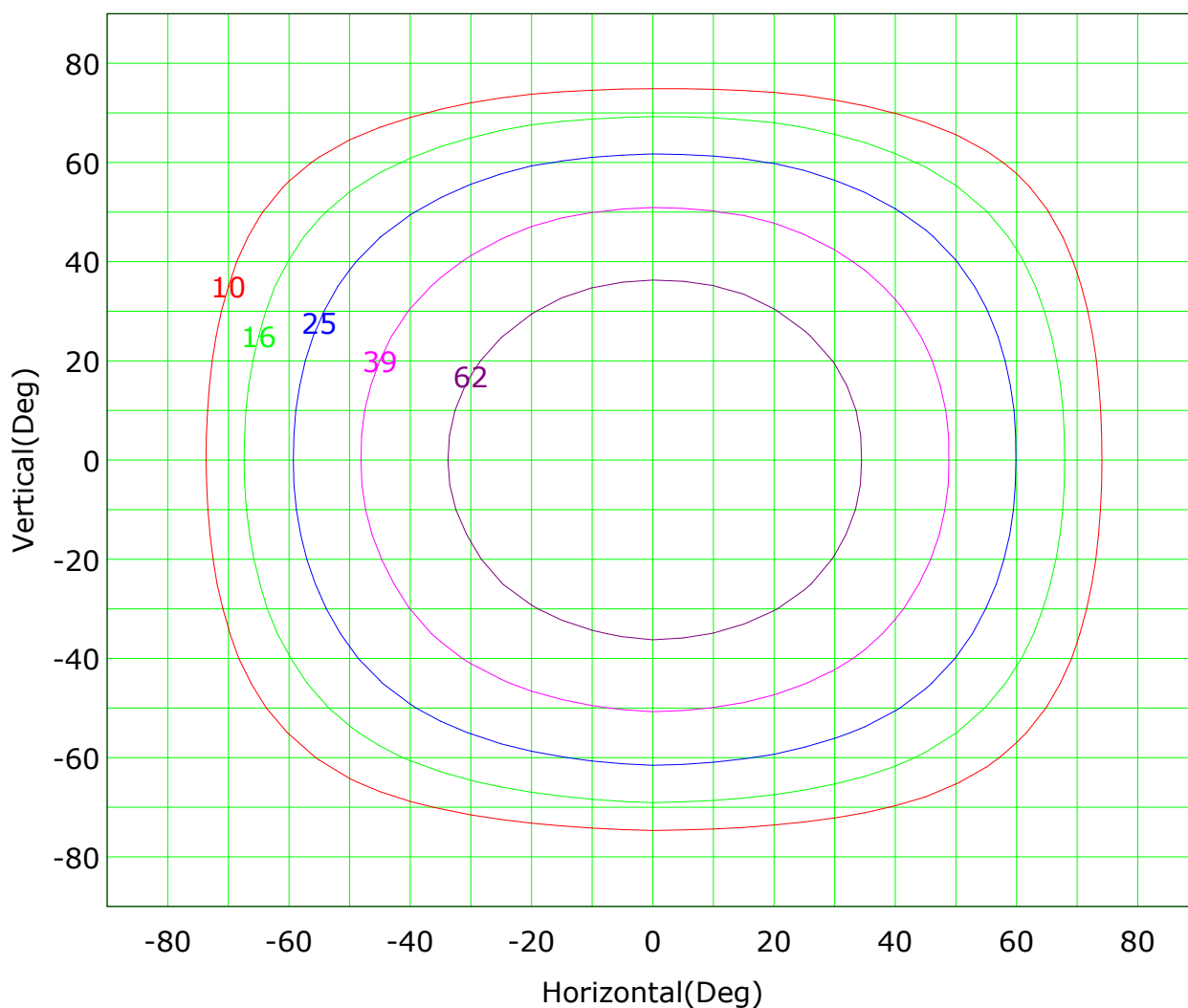
Luminous Intensity Distribution Curve(cd/klm)



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%): 98 cd

(10%):	10 cd	(16%):	16 cd
(25%):	25 cd	(40%):	39 cd
(63%):	62 cd	(100%):	98 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

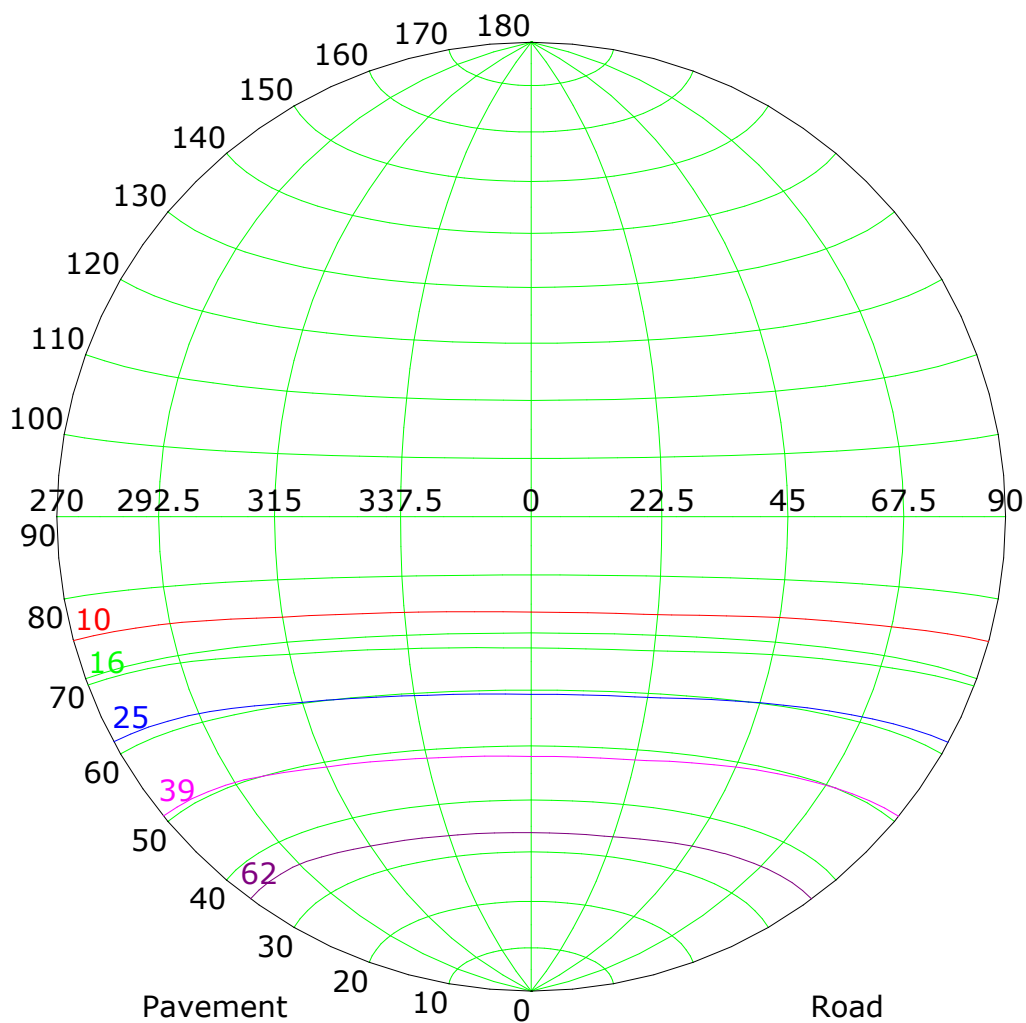
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 98 cd

(10%):	10 cd	(16%):	16 cd
(25%):	25 cd	(40%):	39 cd
(63%):	62 cd	(100%):	98 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

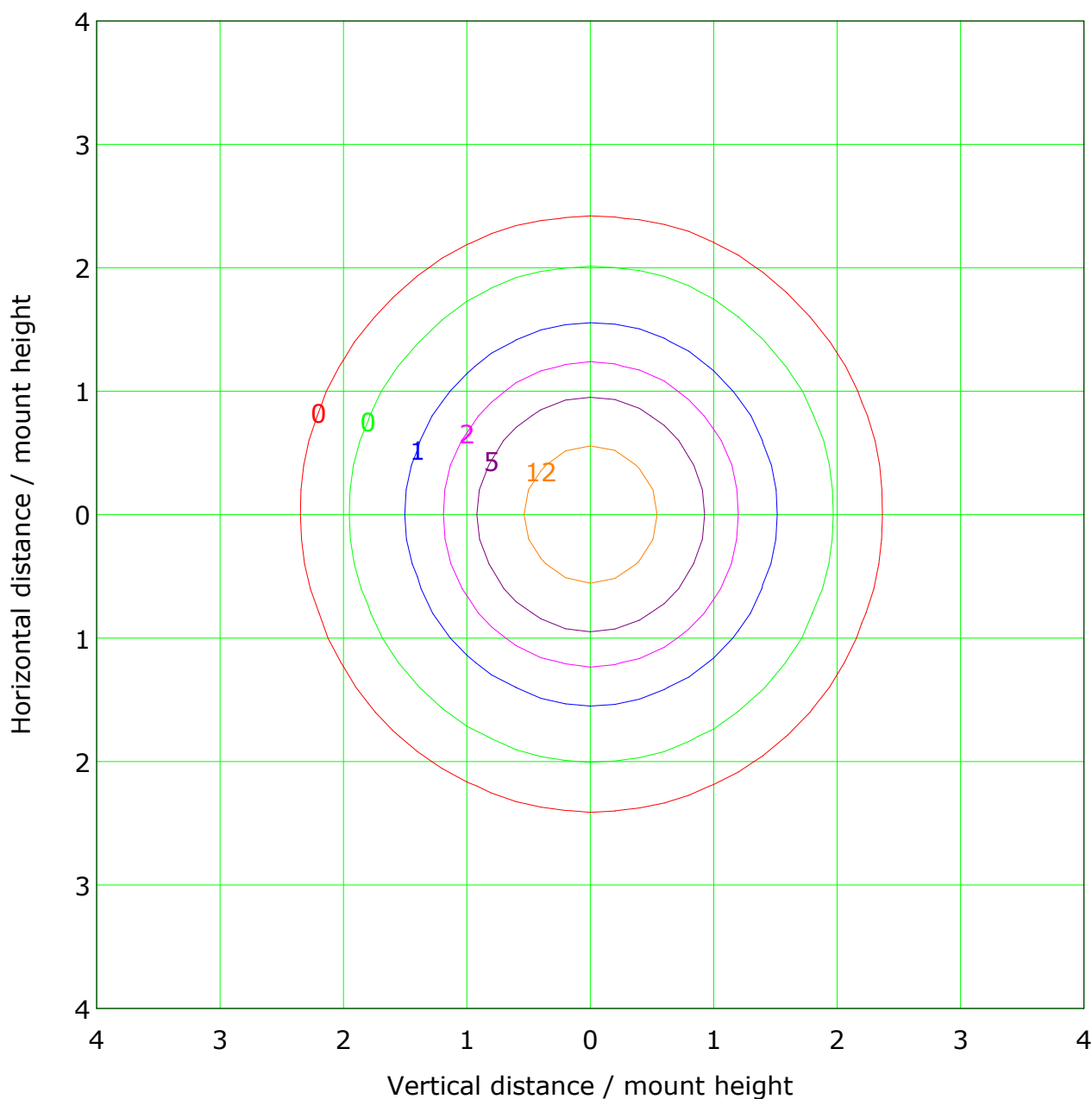
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m Max Lux(100%): 24.5 lx

(1%): 0.2 lx	(2%): 0.5 lx
(5%): 1.2 lx	(10%): 2.5 lx
(20%): 4.9 lx	(50%): 12.3 lx
(100%): 24.5 lx	

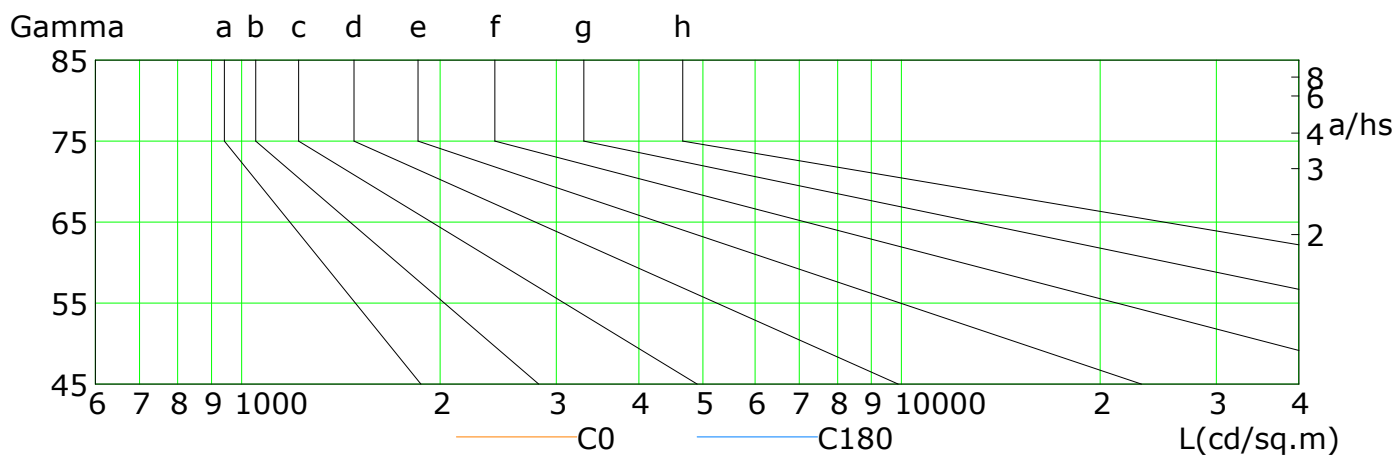
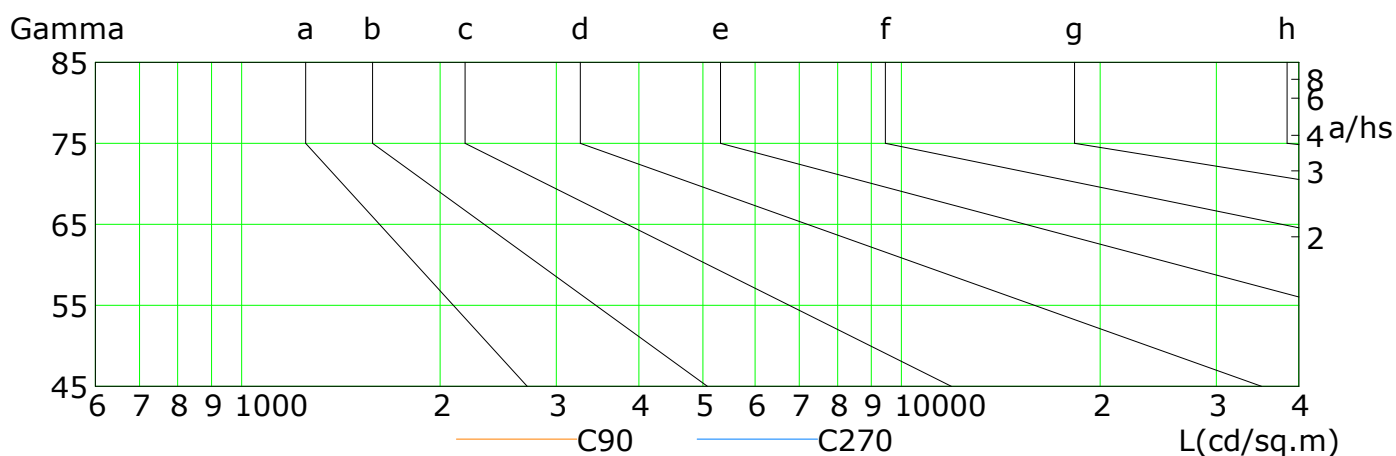
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

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

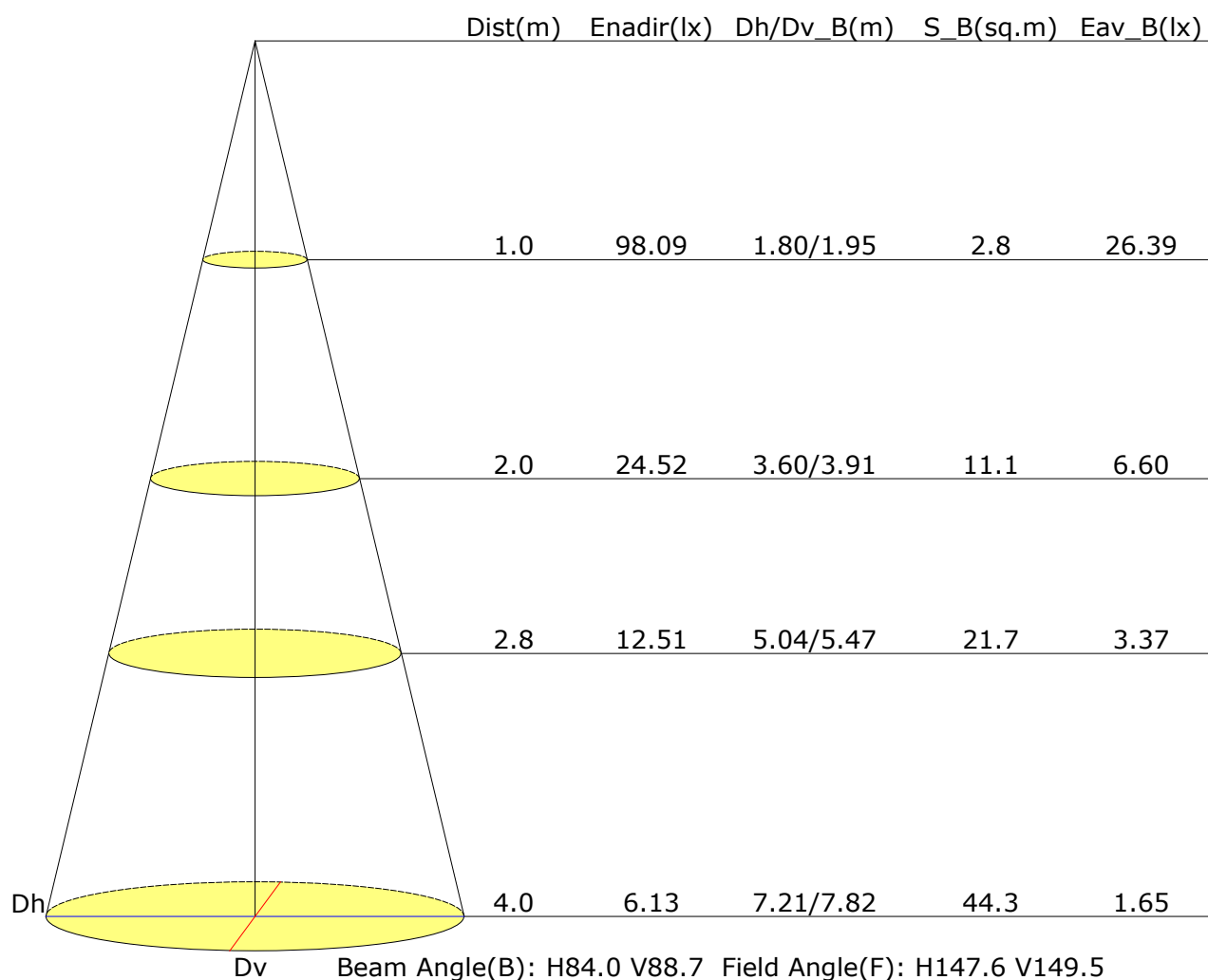


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	44	36	30	24	18	13	9	5	2
C90	48	40	33	27	20	15	10	5	2
C180	45	38	31	24	19	14	9	5	2
C270	48	40	33	27	20	15	10	5	2

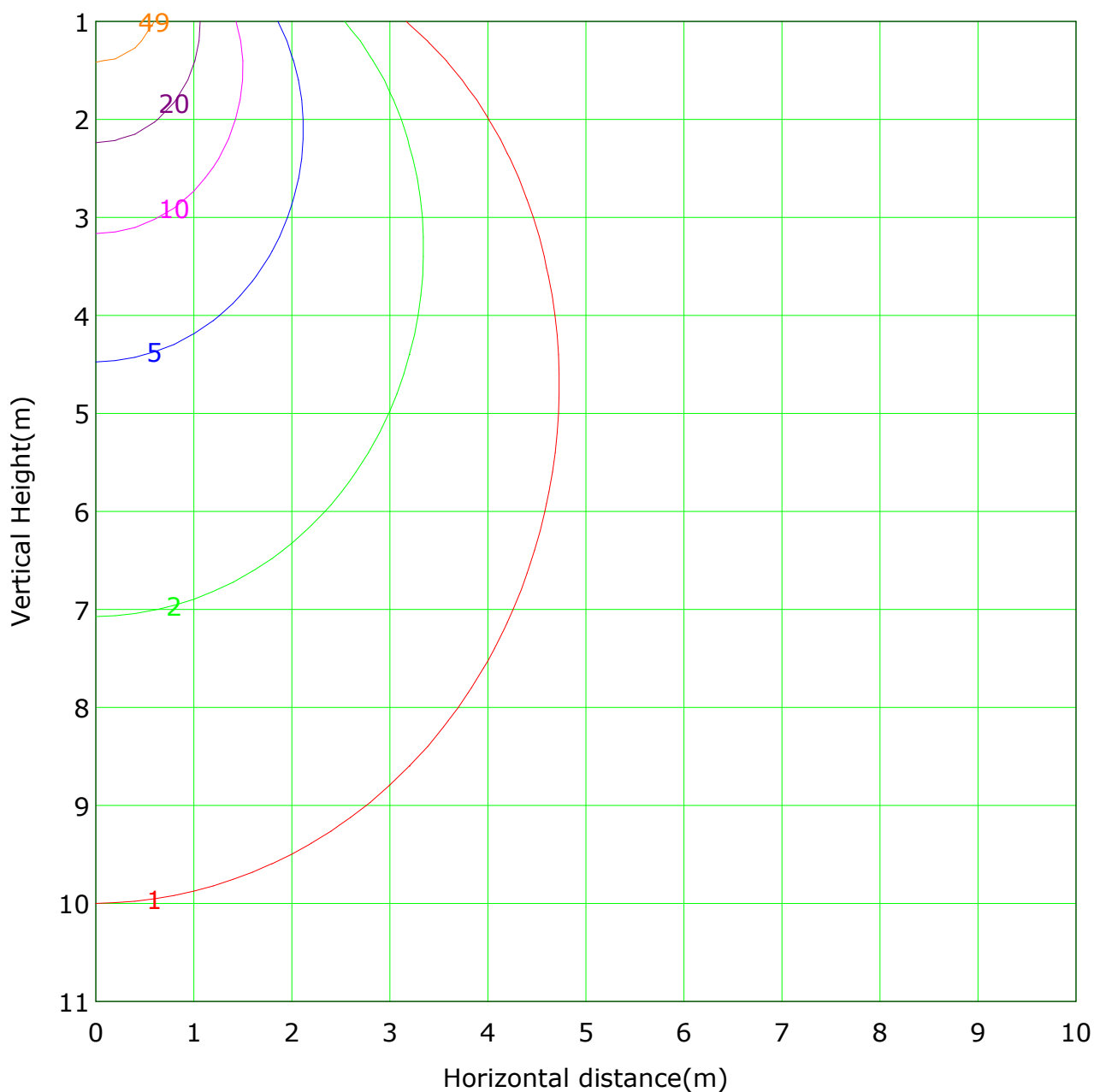
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 98.1 lx
(1%): 1.0 lx	(2%): 2.0 lx	
(5%): 4.9 lx	(10%): 9.8 lx	
(20%): 19.6 lx	(50%): 49.0 lx	
(100%): 98.1 lx		

Report No.:

Test Time: 18/04/2025 17:31

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-AN07-03+LLD-03-XK

Lamp Description: F52-40s-1208F2/14.4

Number of Lamps: 1

Lumens per Lamp: 1491

Voltage: 24.01 V

Current: 0.502 A

Power: 13.26 W

Power Factor: 1

Photometric Results

CIE Class: Direct

Measurement Flux: 1130.5 lm

Downward Ratio: 75.82%

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 75.82%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 148.5, 124.8, 123.1, 123.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 97.6, 46.9, 56.6, 57.1

Luminaire Efficacy Rating (LER): 85.30

Central Intensity: 725.61 cd

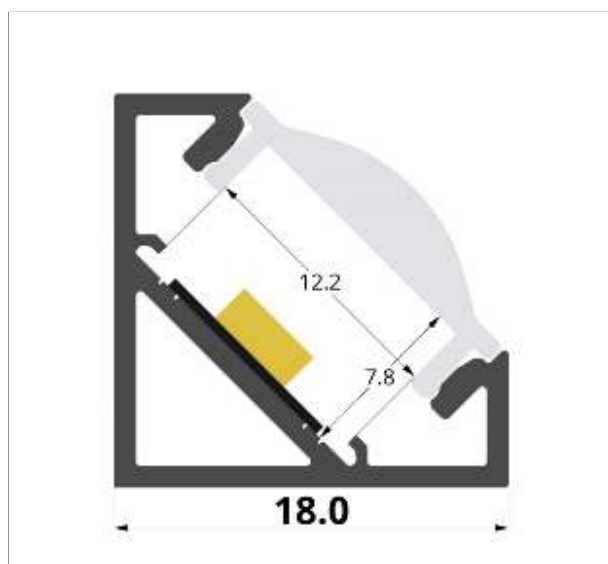
Max. Intensity: 736.66 cd

Pos of Max. Intensity: H45 V8

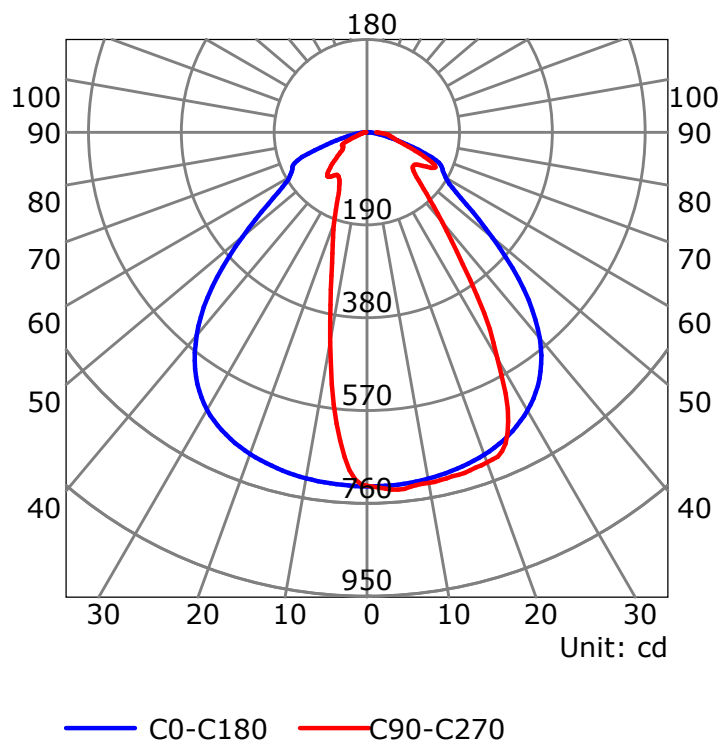
S/MH(C0/C180): 1.33

S/MH(C90/C270): 0.78

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

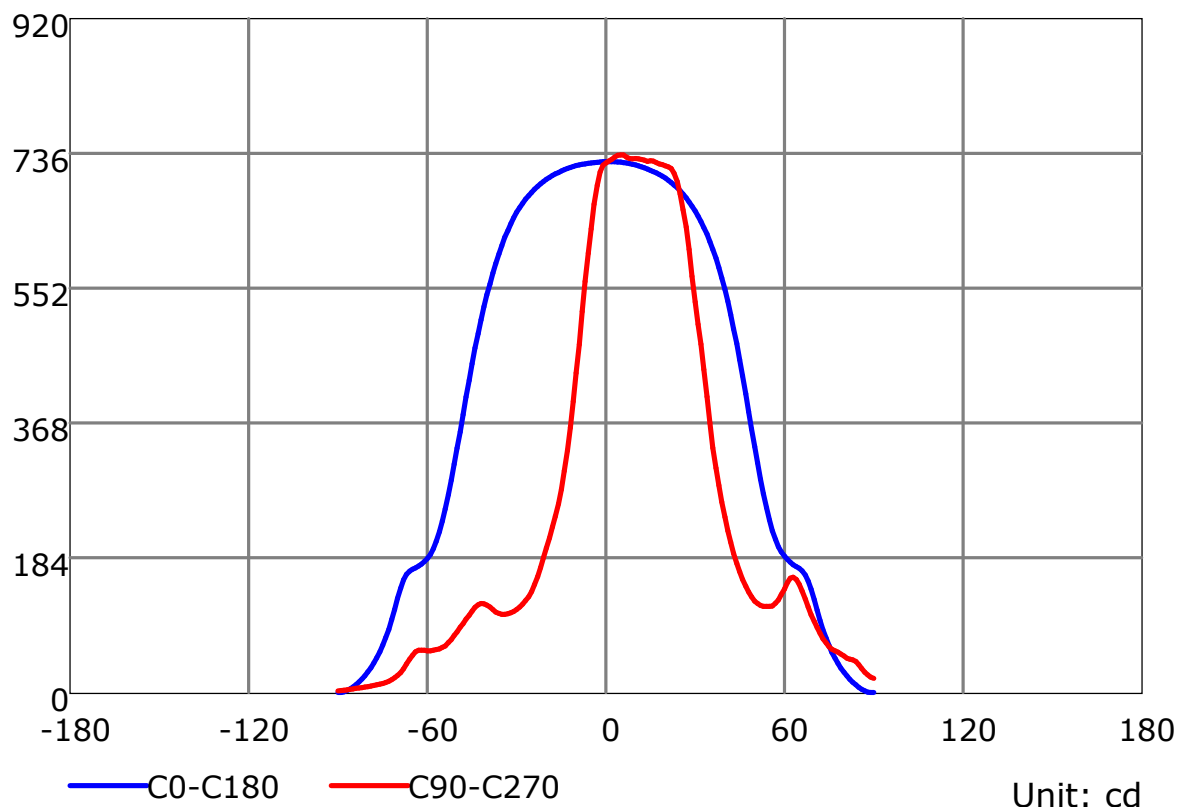
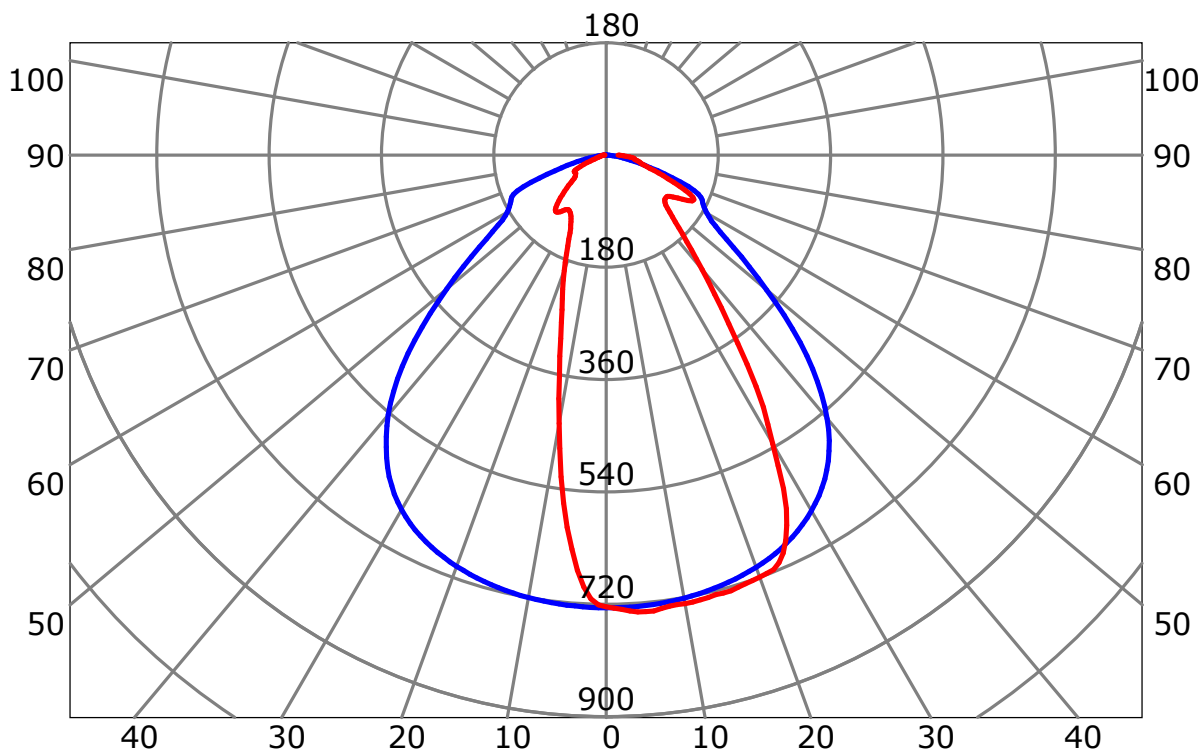
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

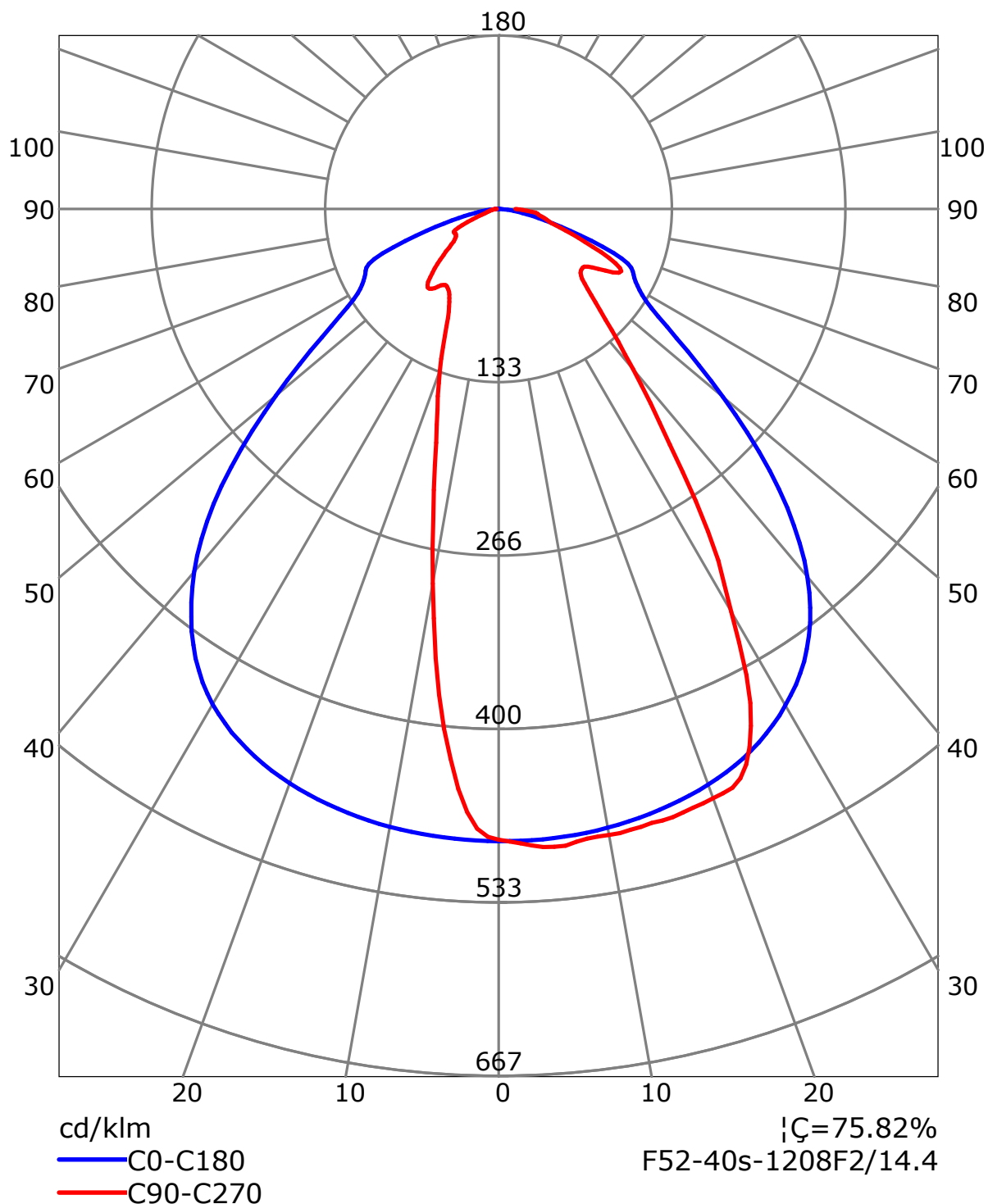
Luminous Intensity Distribution Curve



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:

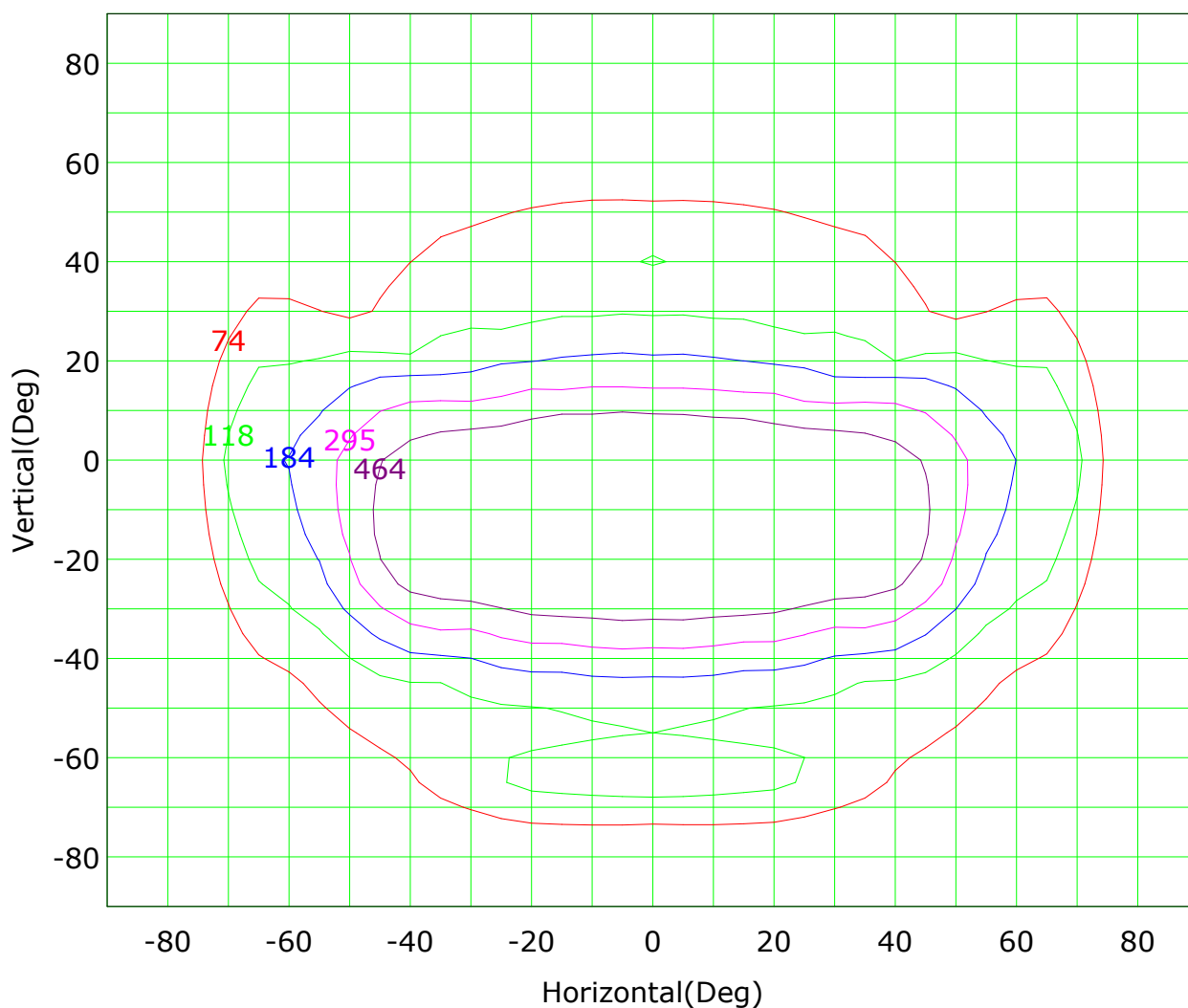
Luminous Intensity Distribution Curve(cd/klm)



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%): 737 cd

(10%):	74 cd	(16%):	118 cd
(25%):	184 cd	(40%):	295 cd
(63%):	464 cd	(100%):	737 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

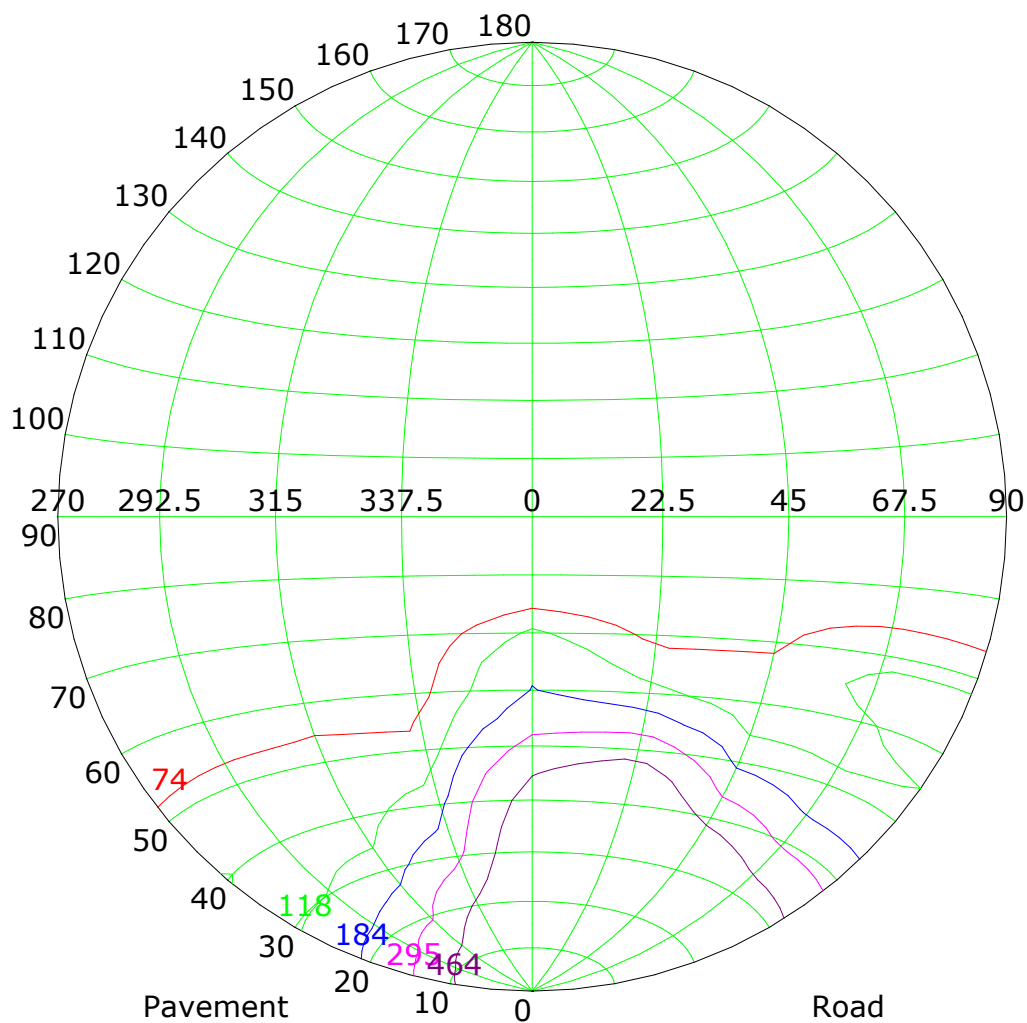
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

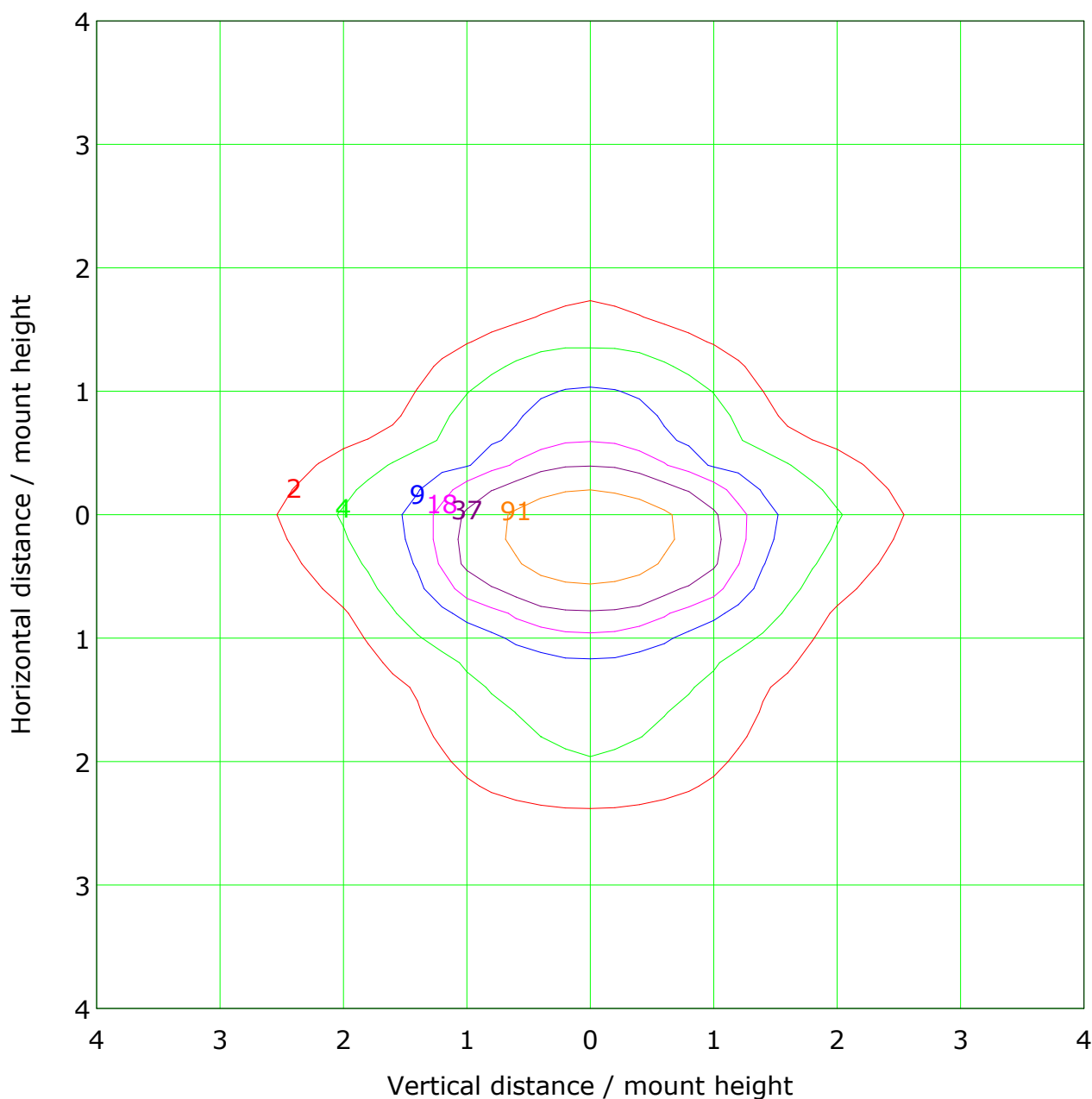
Isocandela (sphere)



Imax (100%): 737 cd

(10%):	74 cd	(16%):	118 cd
(25%):	184 cd	(40%):	295 cd
(63%):	464 cd	(100%):	737 cd

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 182.7 lx	
— (1%):	1.8 lx	— (2%):	3.7 lx
— (5%):	9.1 lx	— (10%):	18.3 lx
— (20%):	36.5 lx	— (50%):	91.3 lx
— (100%):	182.7 lx		

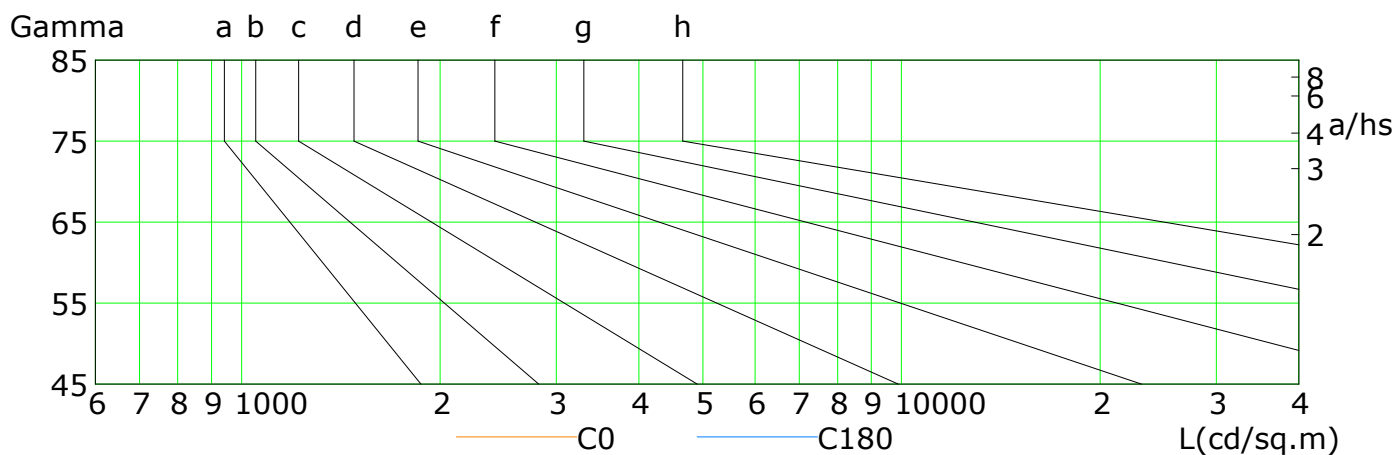
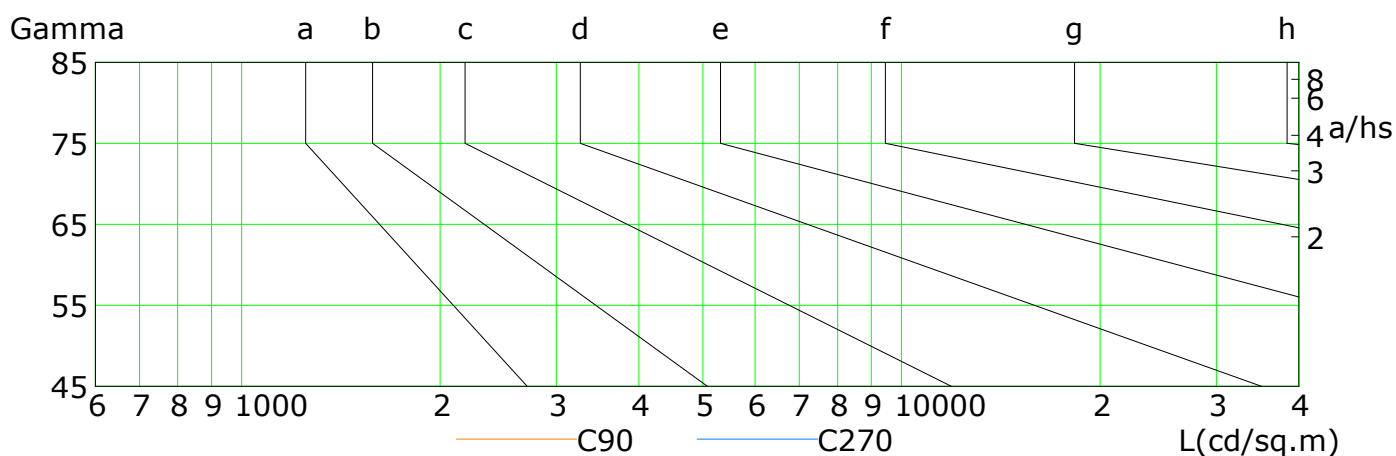
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

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

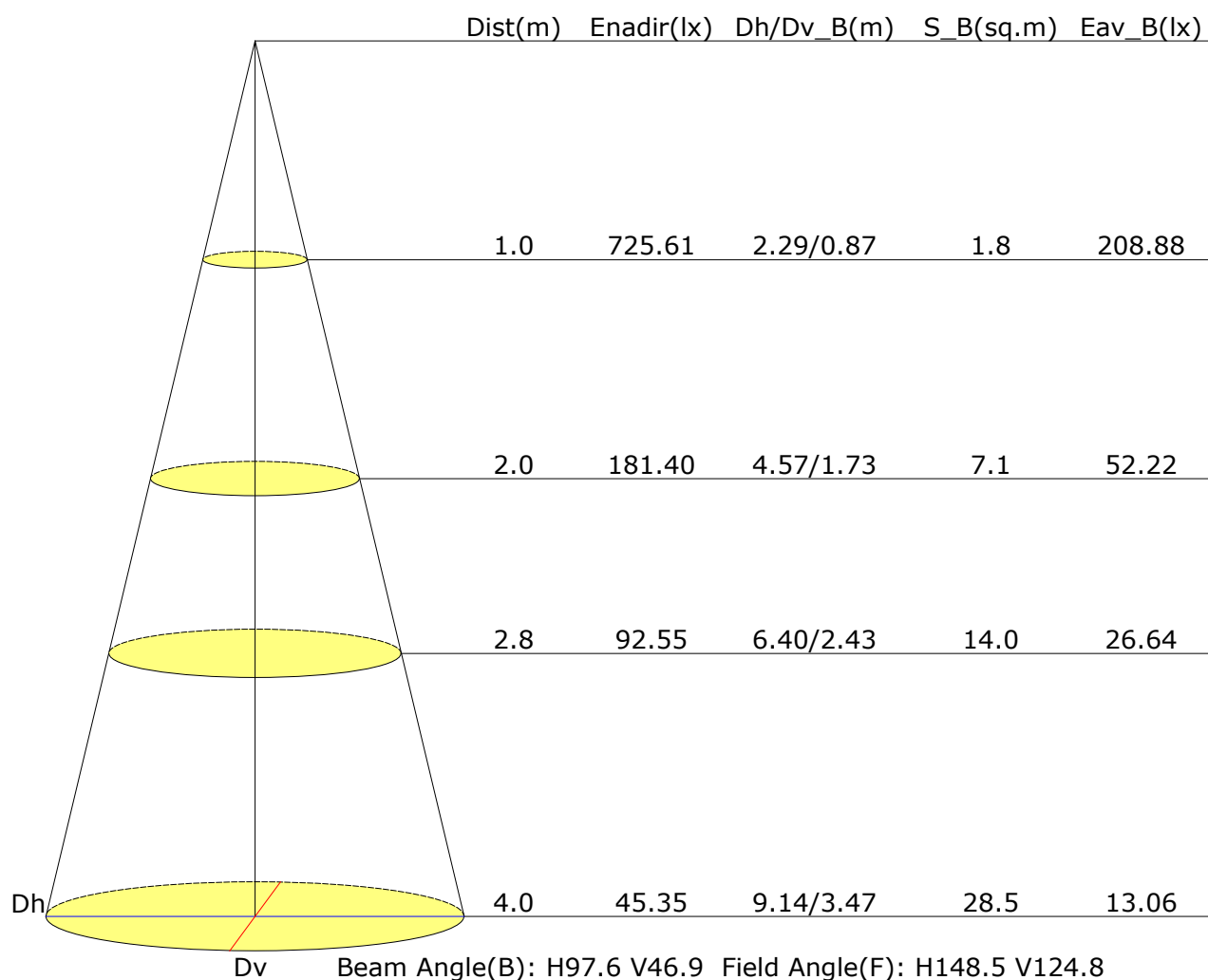


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	455	336	236	187	170	127	65	28	7
C90	165	125	118	142	148	97	63	50	38
C180	450	334	234	183	169	129	65	28	8
C270	112	83	62	57	51	24	13	8	5

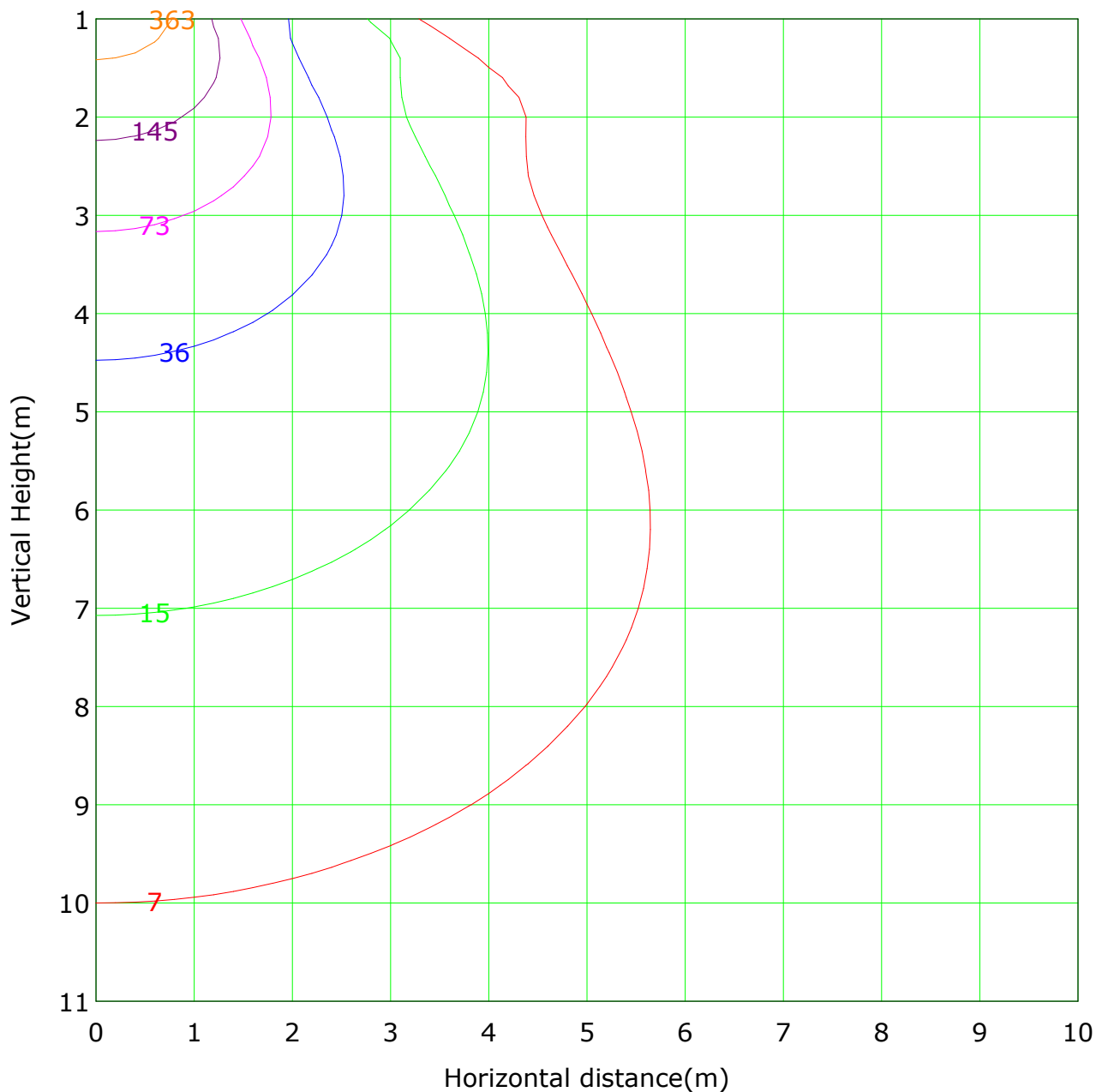
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 725.6 lx

(1%): 7.3 lx	(2%): 14.5 lx
(5%): 36.3 lx	(10%): 72.6 lx
(20%): 145.1 lx	(50%): 362.8 lx
(100%): 725.6 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: