

Report No.:

Test Time: 18/04/2025 12:17

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-RE15-16+LLD-16-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: 923.3 lm

Downward Ratio: 61.93%

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 61.93%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.3, 161.7, 161.2, 161.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.7, 112.2, 112.5, 112.6

Luminaire Efficacy Rating (LER): 71.08

Central Intensity: 325.04 cd

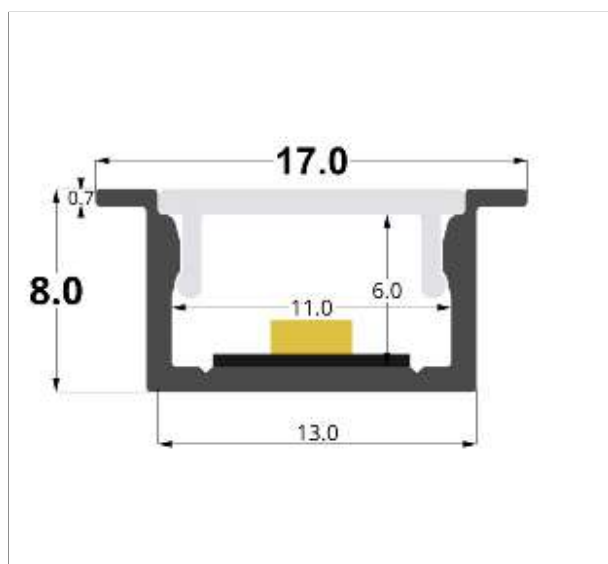
Max. Intensity: 325.05 cd

Pos of Max. Intensity: H0 V0

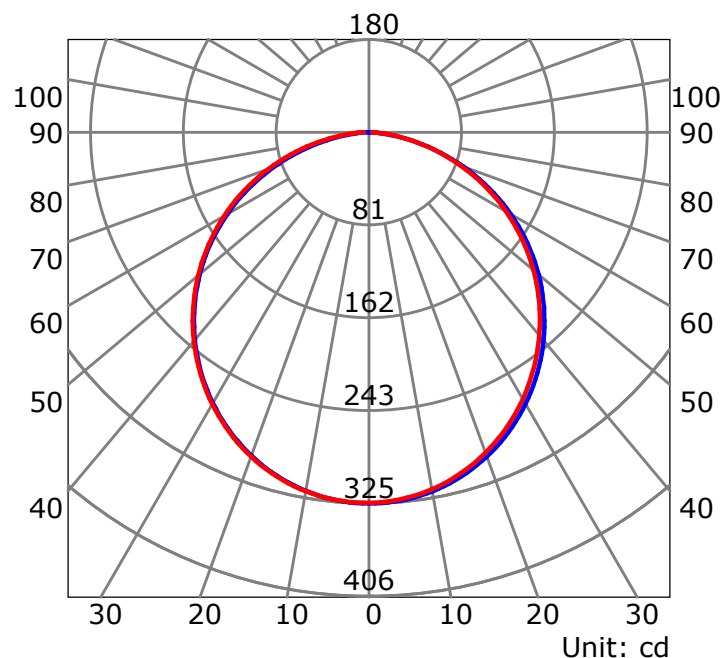
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.25

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

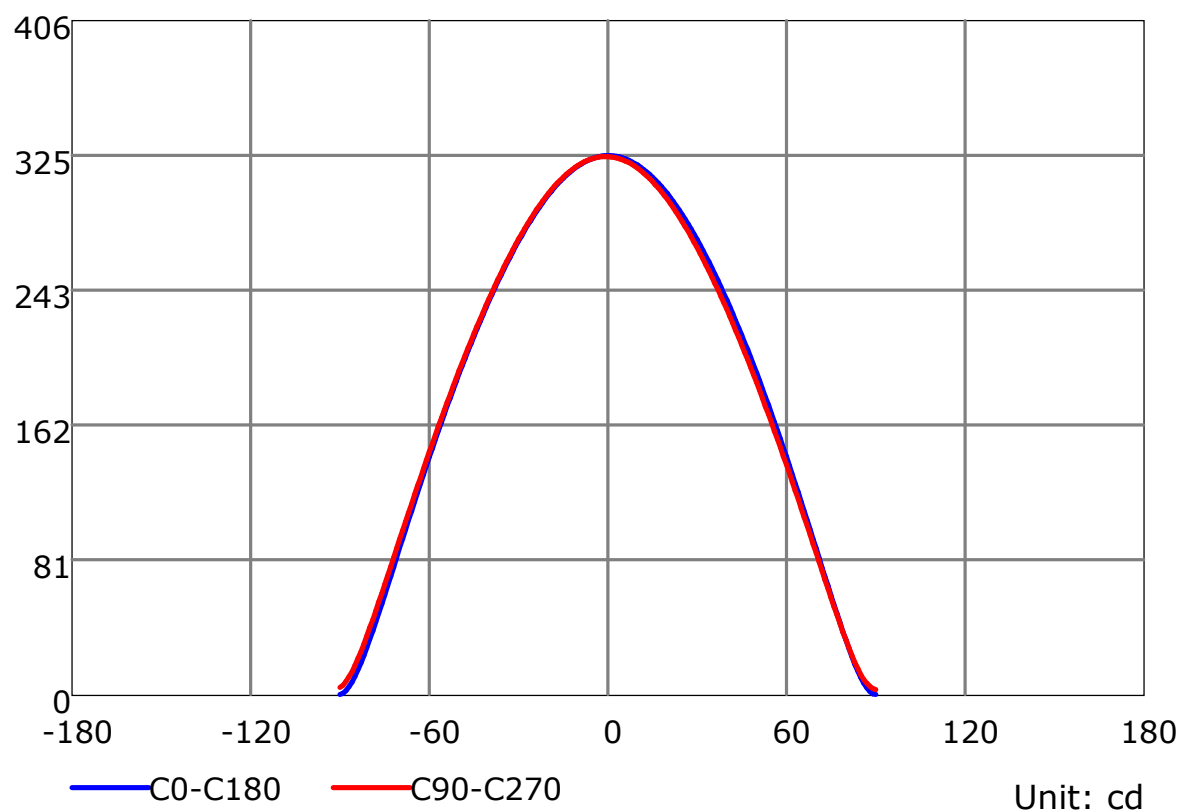
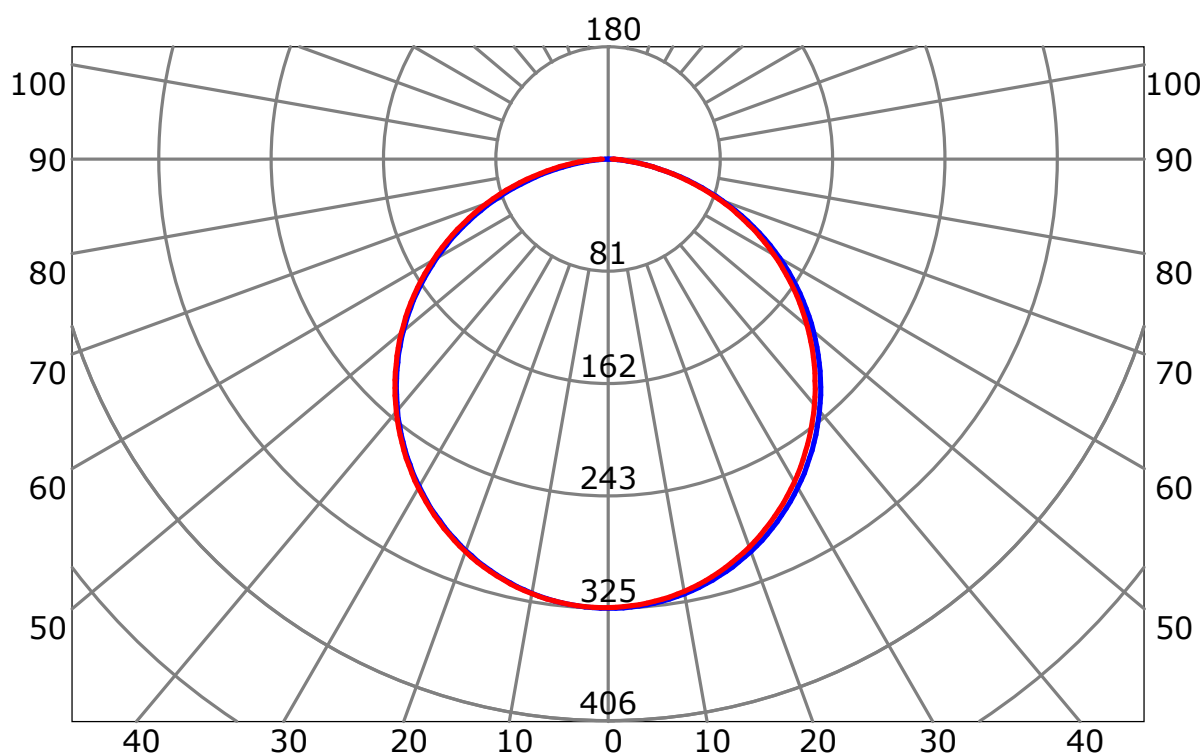
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

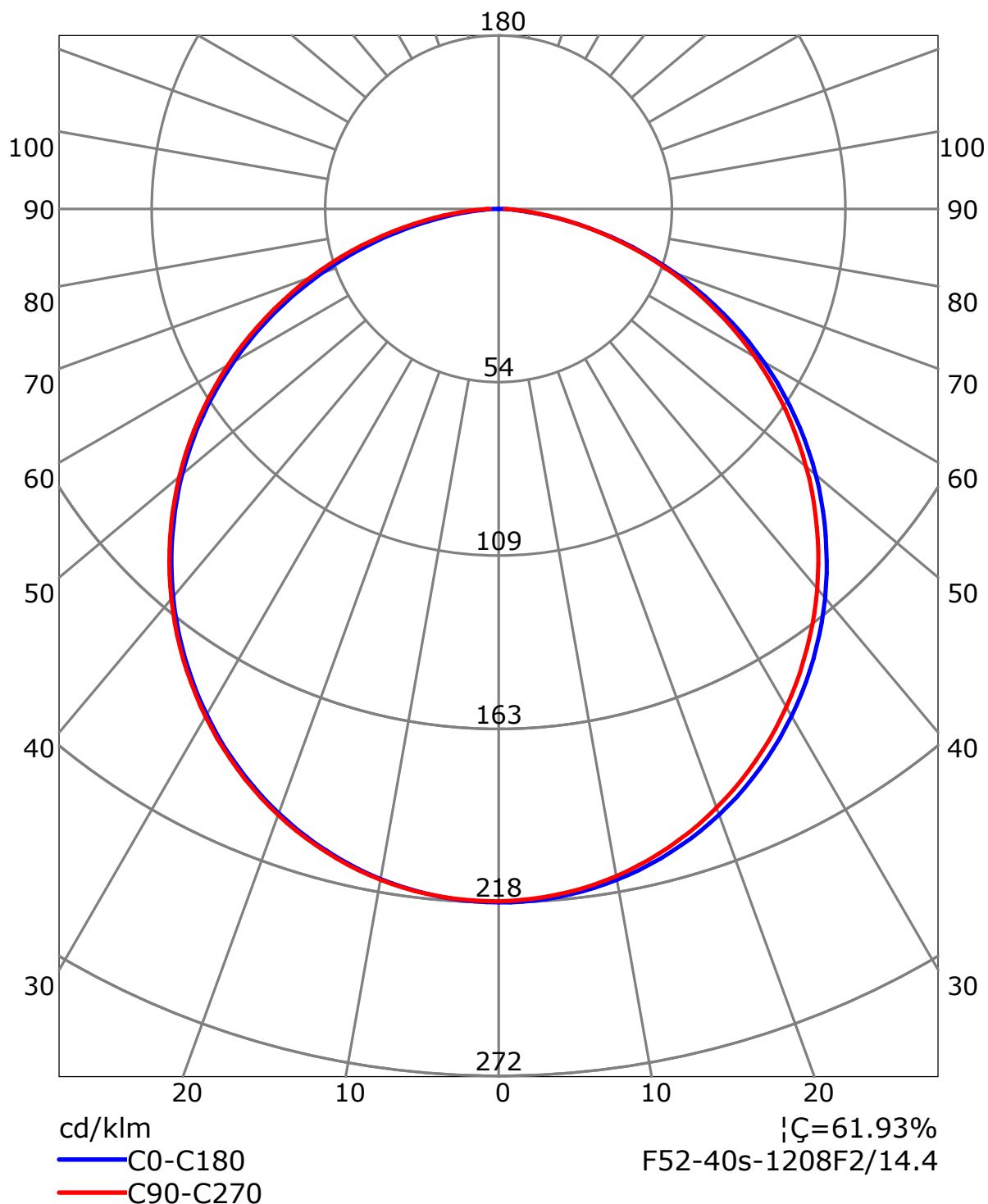


Unit: cd

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:

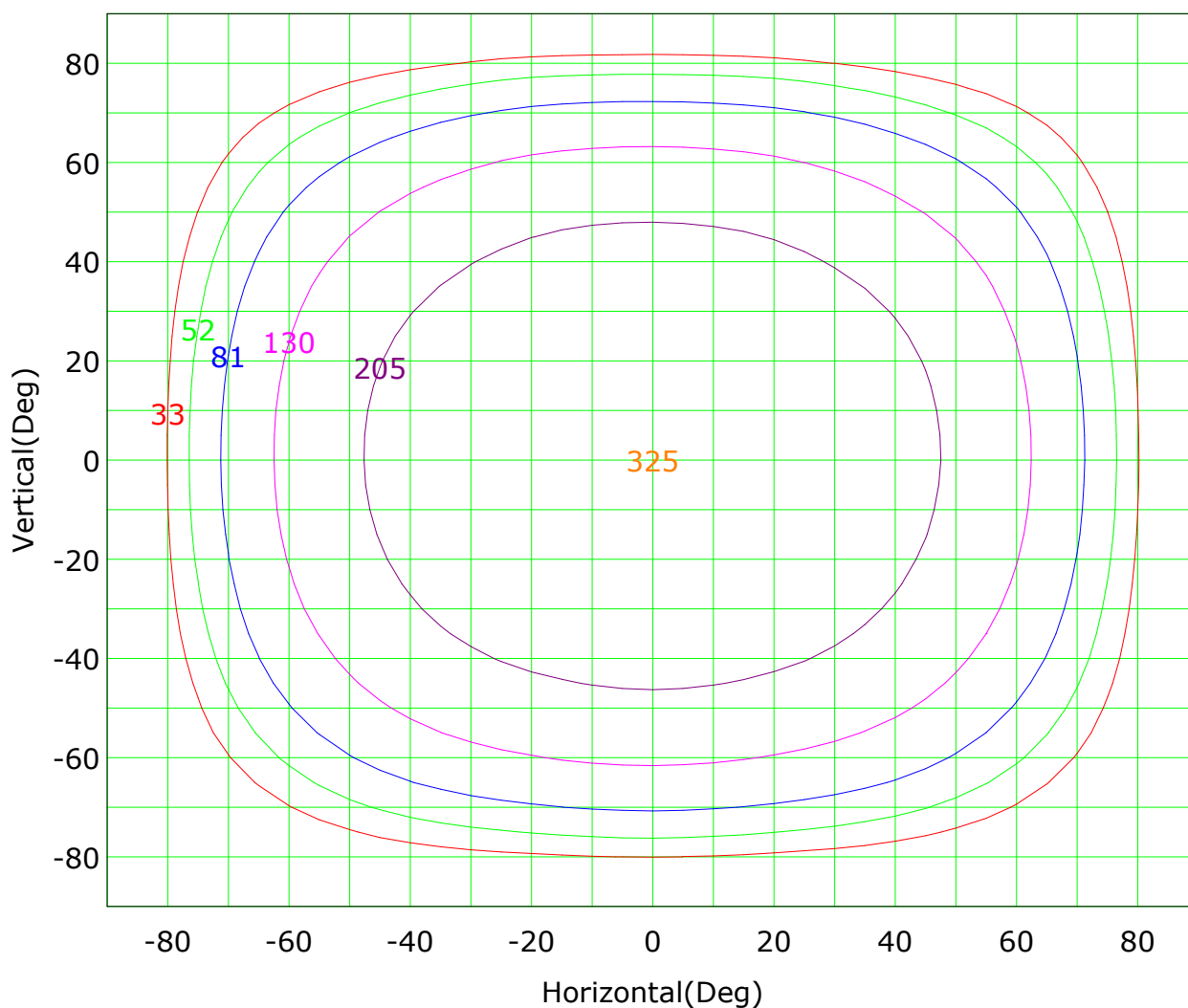
Luminous Intensity Distribution Curve(cd/klm)



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%): 325 cd

(10%):	33 cd	(16%):	52 cd
(25%):	81 cd	(40%):	130 cd
(63%):	205 cd	(100%):	325 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

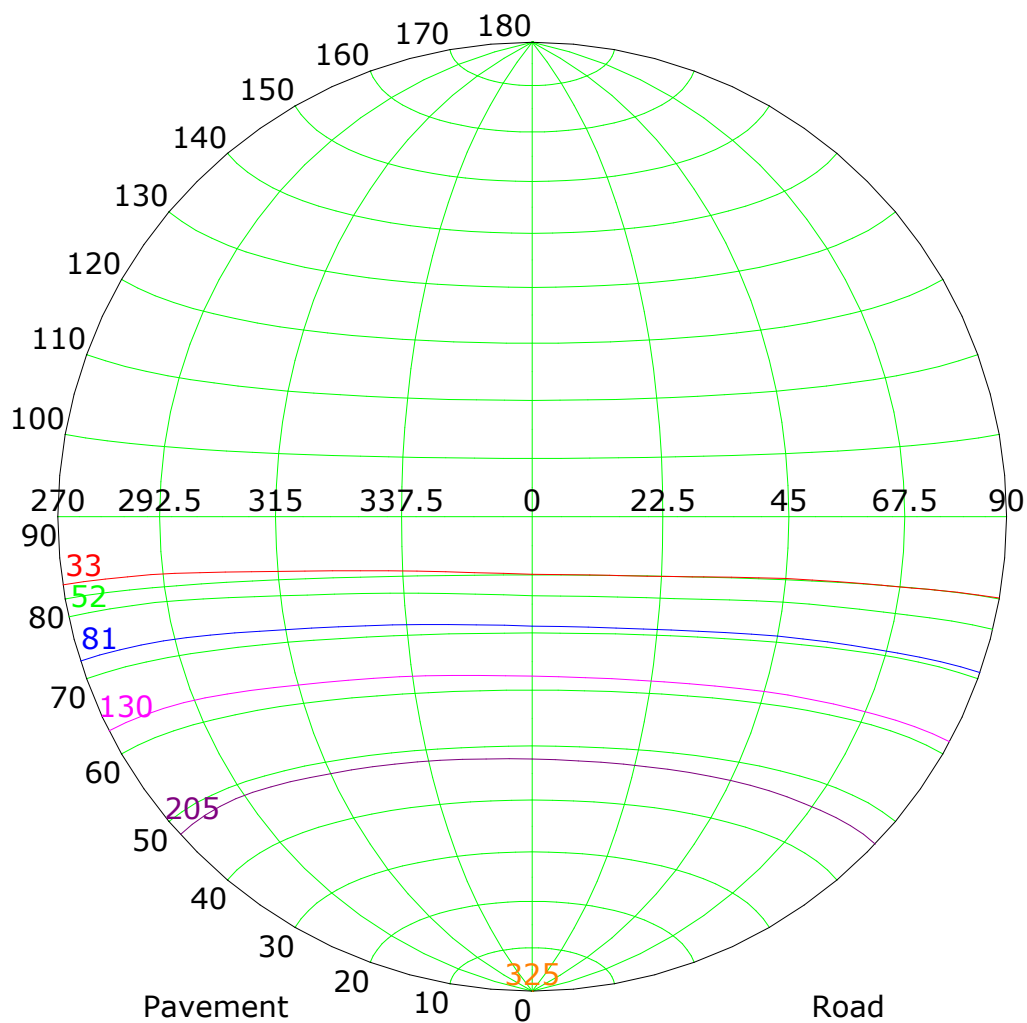
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 325 cd

(10%):	33 cd	(16%):	52 cd
(25%):	81 cd	(40%):	130 cd
(63%):	205 cd	(100%):	325 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

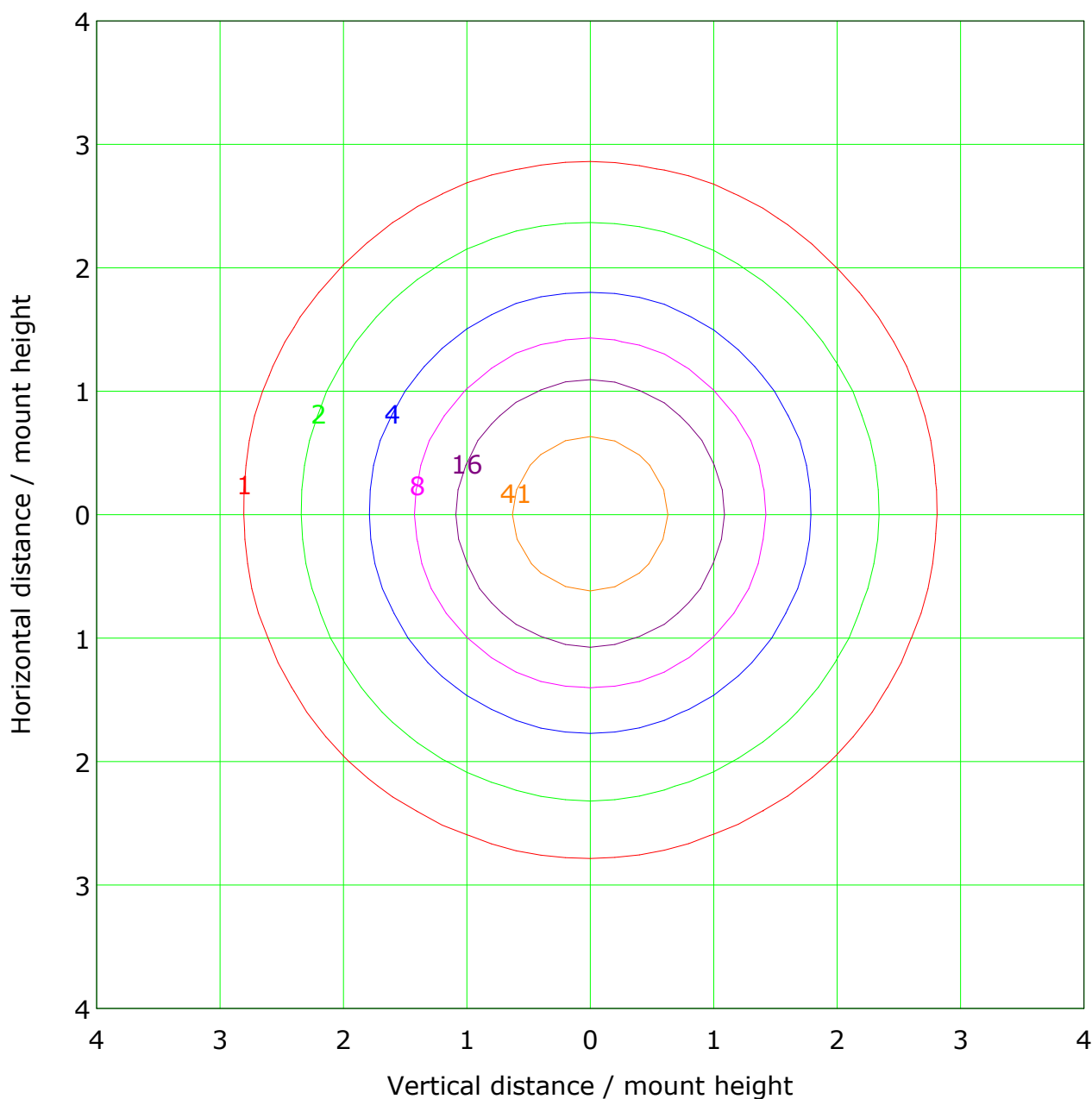
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 81.3 lx	
— (1%):	0.8 lx	— (2%):	1.6 lx
— (5%):	4.1 lx	— (10%):	8.1 lx
— (20%):	16.3 lx	— (50%):	40.6 lx
— (100%):	81.3 lx		

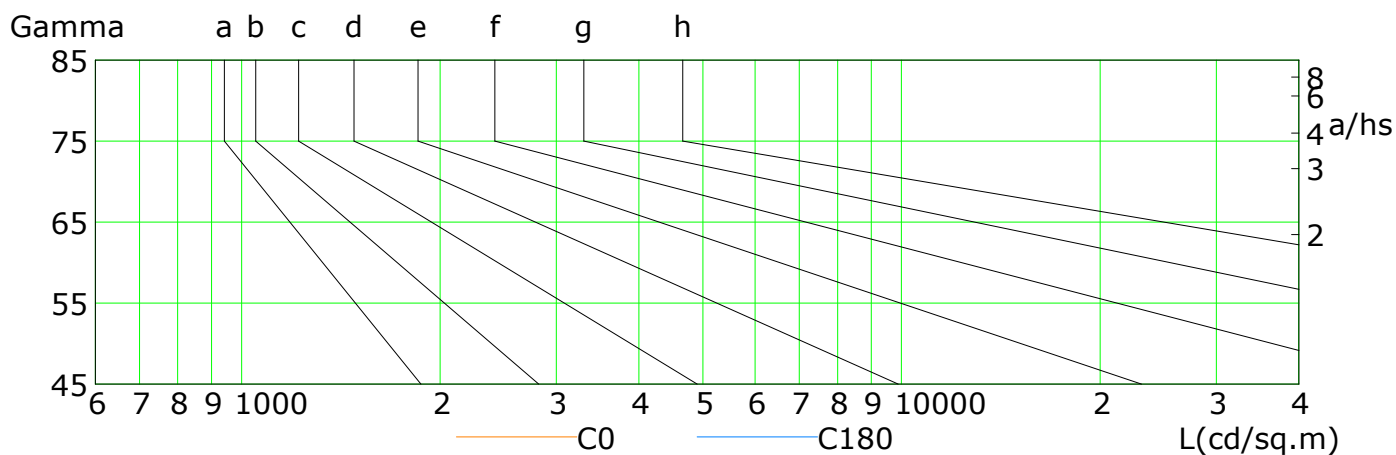
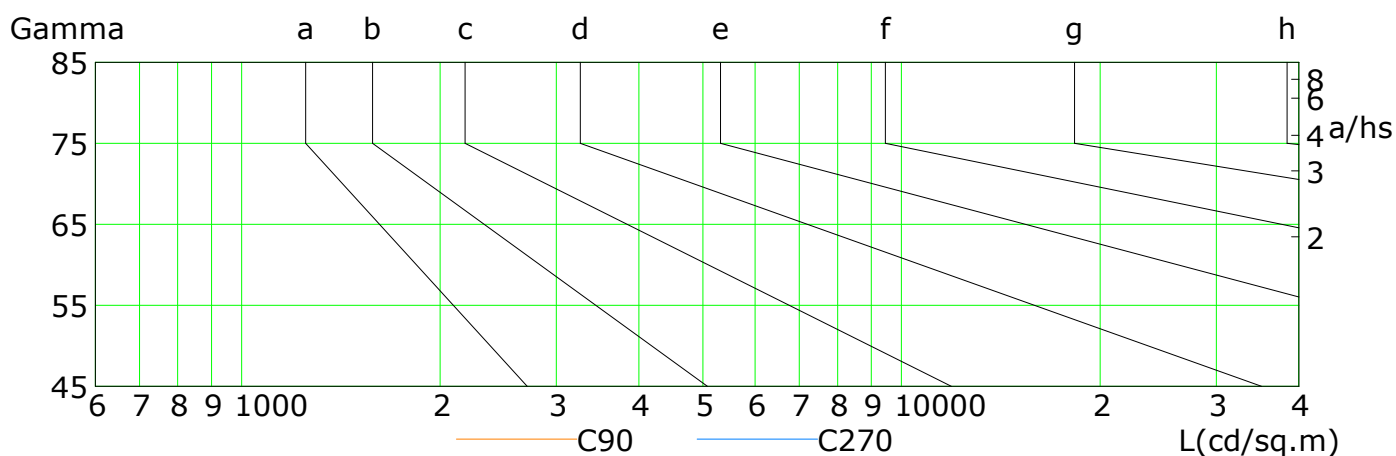
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

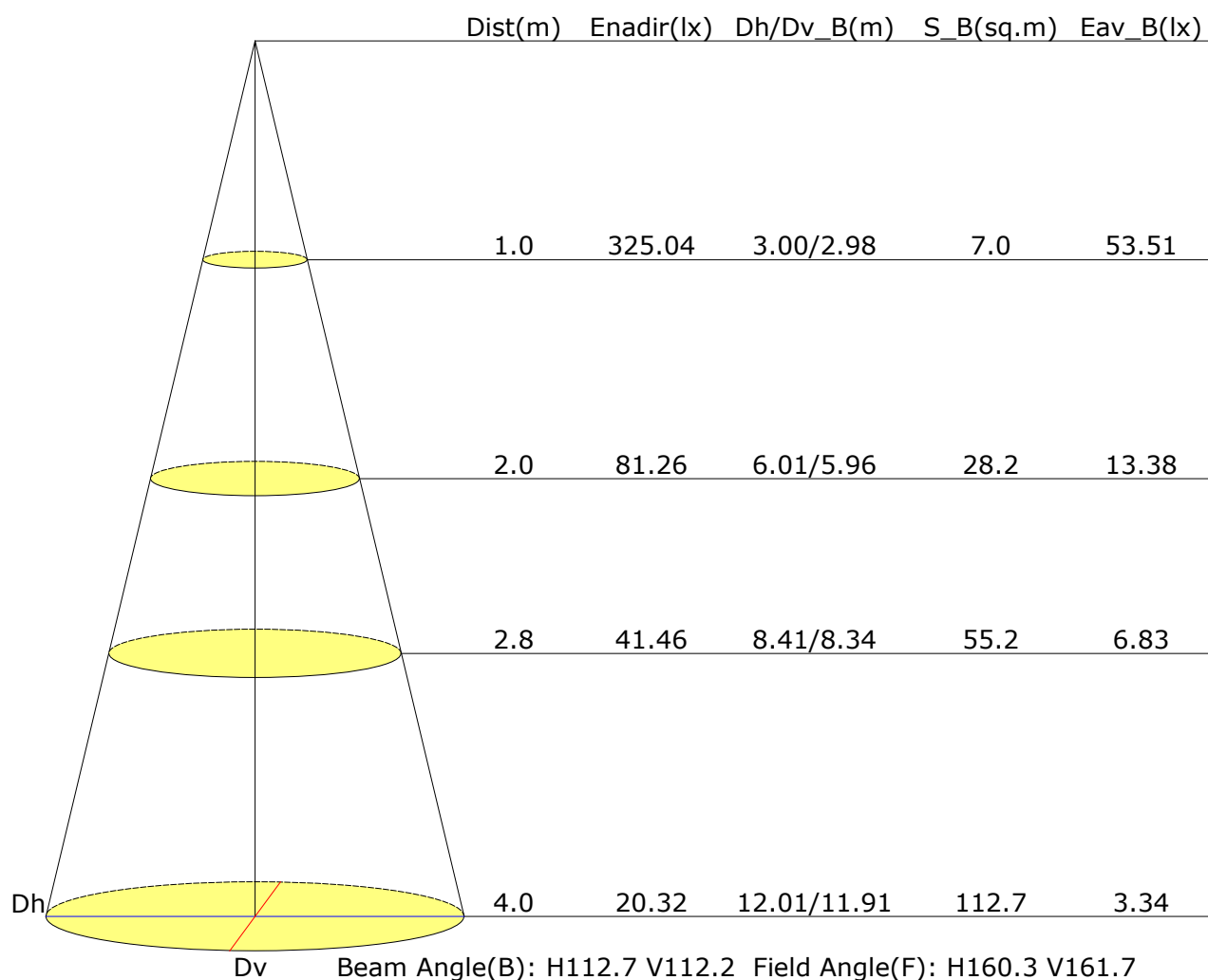


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	217	194	169	144	116	88	60	33	10
C90	211	188	164	139	112	85	58	33	12
C180	216	194	169	143	116	88	60	33	11
C270	218	195	171	146	120	93	66	40	18

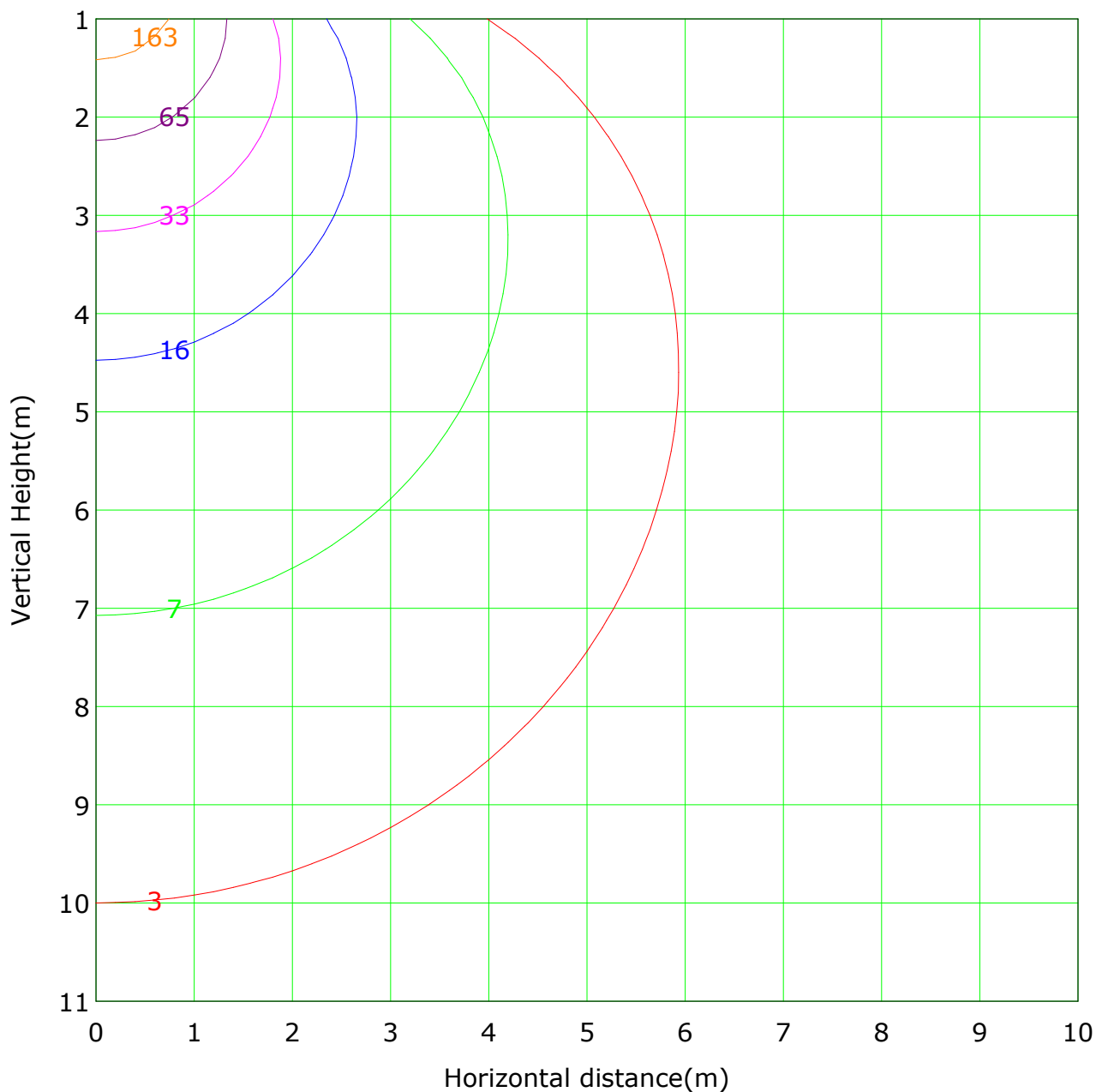
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 325.0 lx

— (1%): 3.3 lx	— (2%): 6.5 lx
— (5%): 16.3 lx	— (10%): 32.5 lx
— (20%): 65.0 lx	— (50%): 162.5 lx
— (100%): 325.0 lx	

Report No.:

Test Time: 18/04/2025 14:08

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-RE15-16+LLD-16-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: 926.5 lm

Downward Ratio: 62.14%

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 62.14%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.1, 166.1, 165.3, 165.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.1, 111.9, 112.0, 112.2

Luminaire Efficacy Rating (LER): 71.32

Central Intensity: 322.72 cd

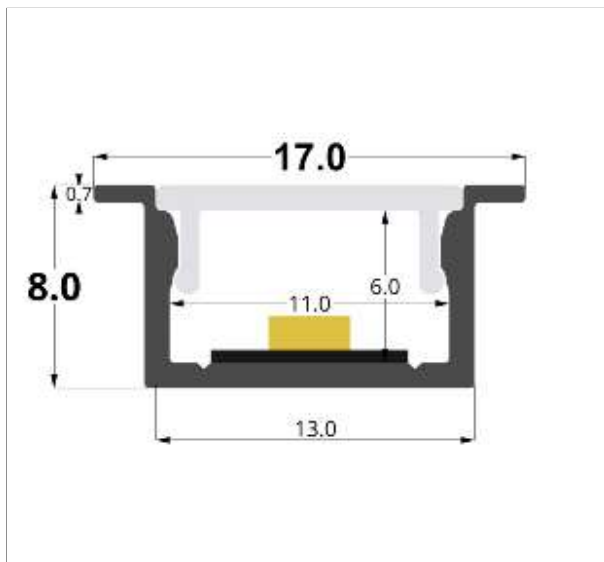
Max. Intensity: 322.73 cd

Pos of Max. Intensity: H0 V0

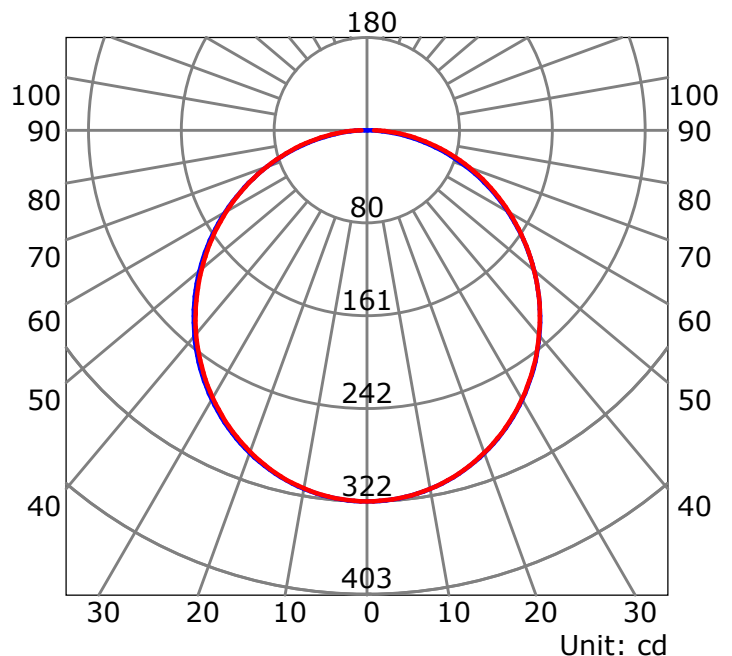
S/MH(C0/C180): 1.25

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

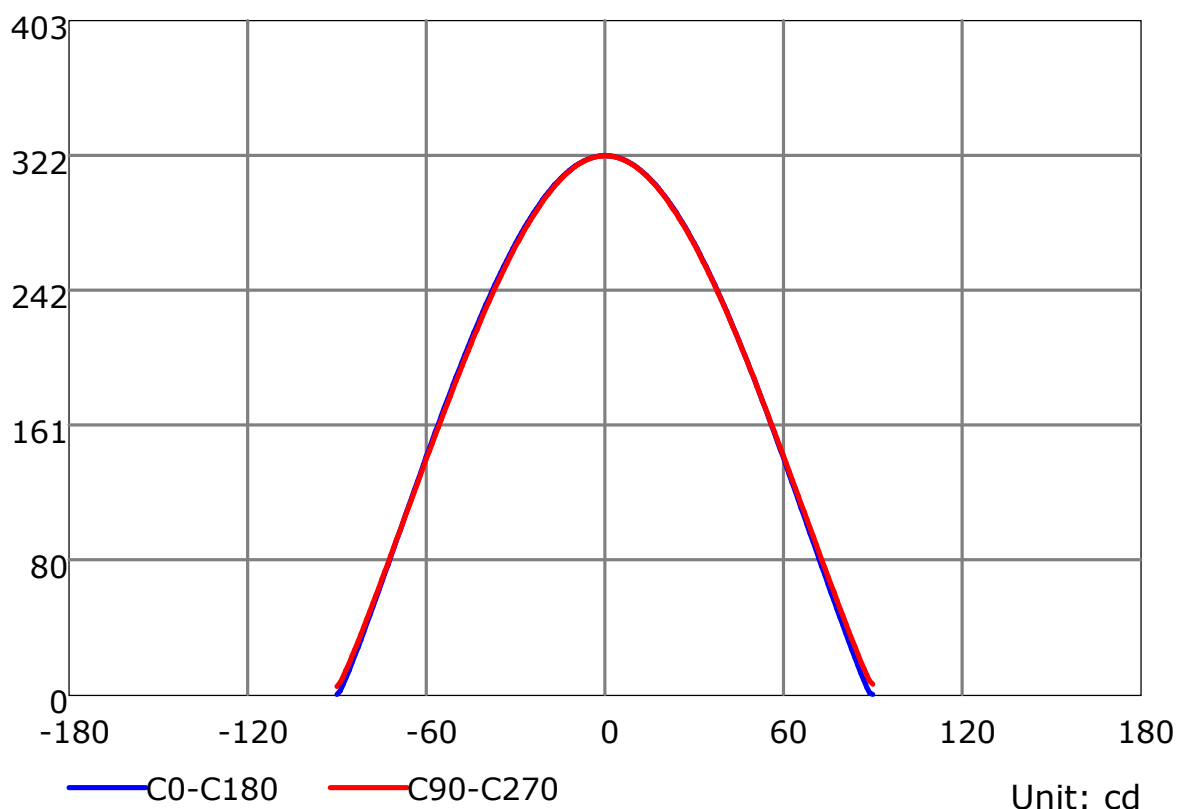
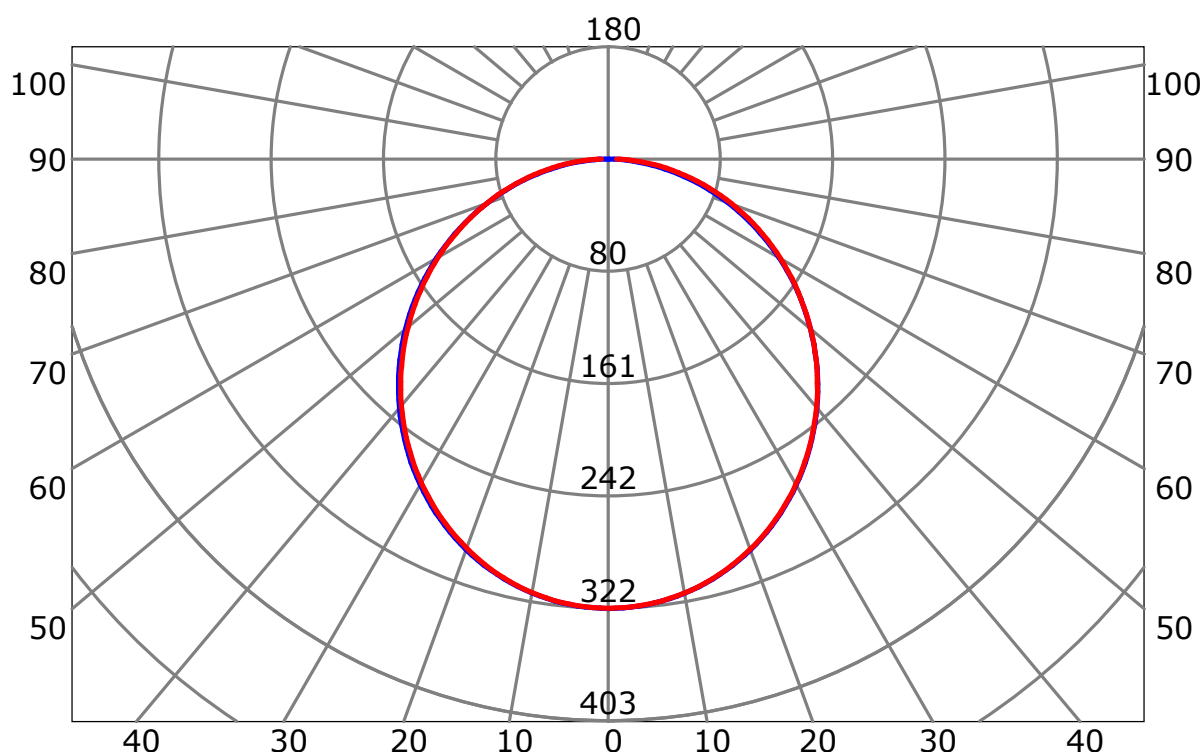
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

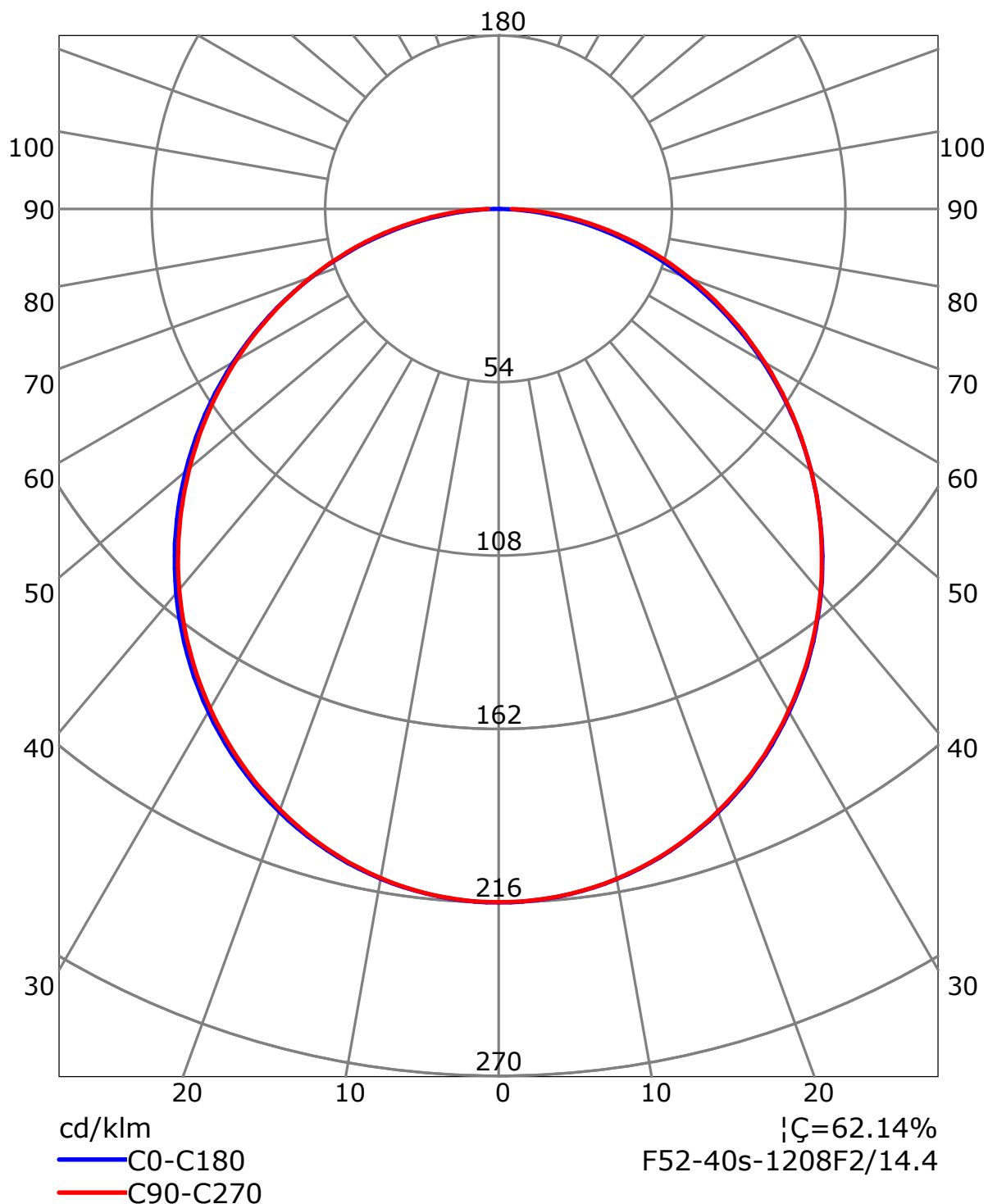
Luminous Intensity Distribution Curve



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:

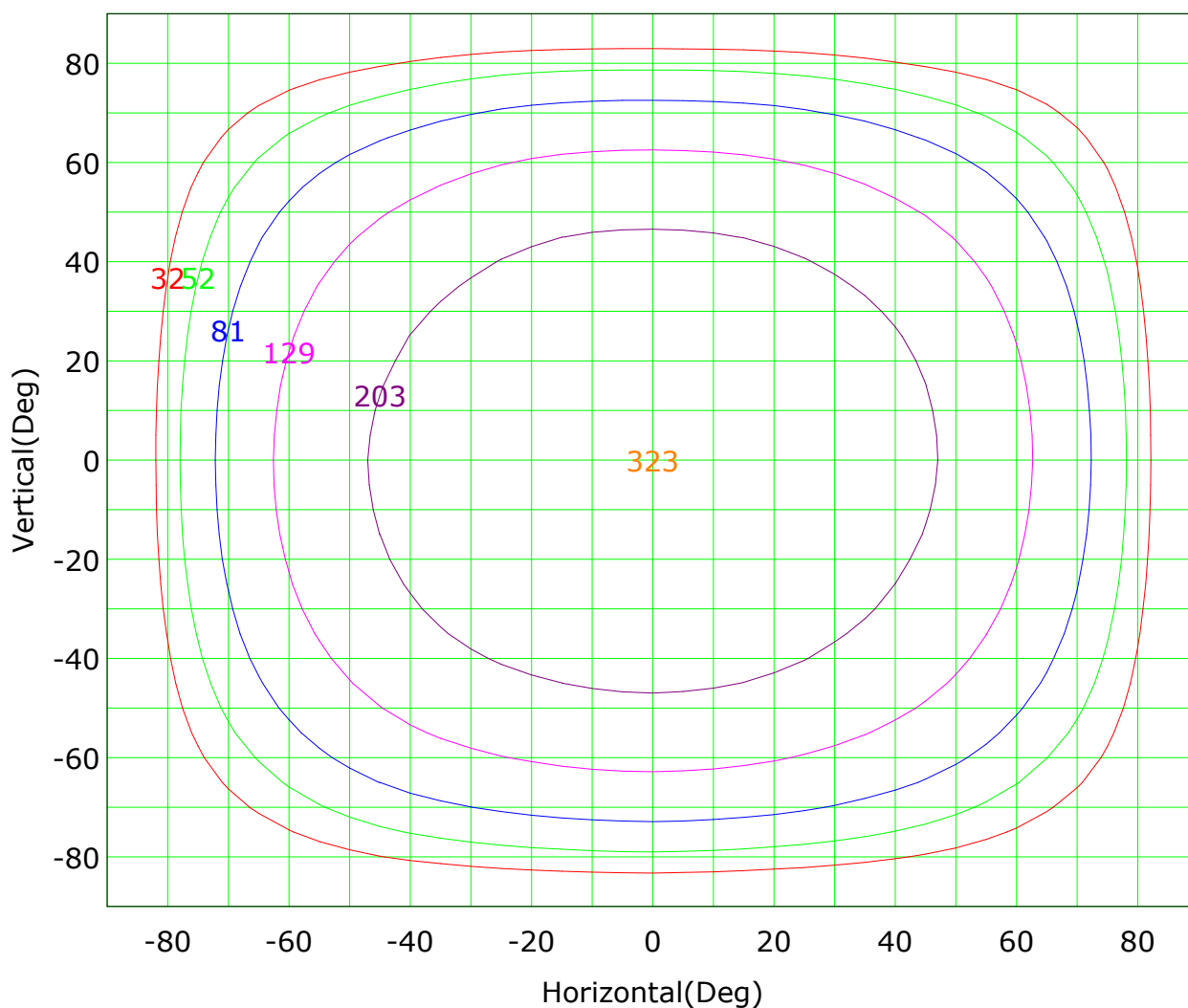
Luminous Intensity Distribution Curve(cd/klm)



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%): 323 cd

(10%):	32 cd	(16%):	52 cd
(25%):	81 cd	(40%):	129 cd
(63%):	203 cd	(100%):	323 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

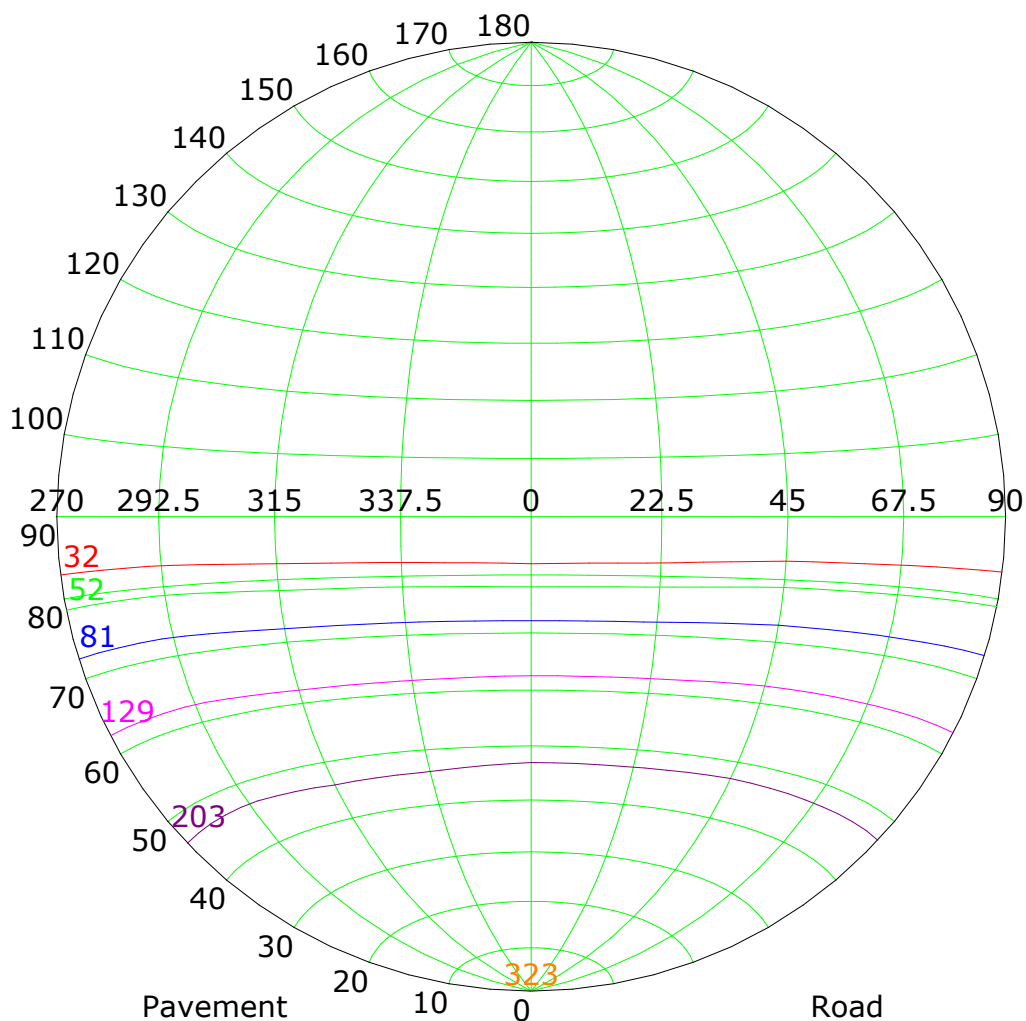
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

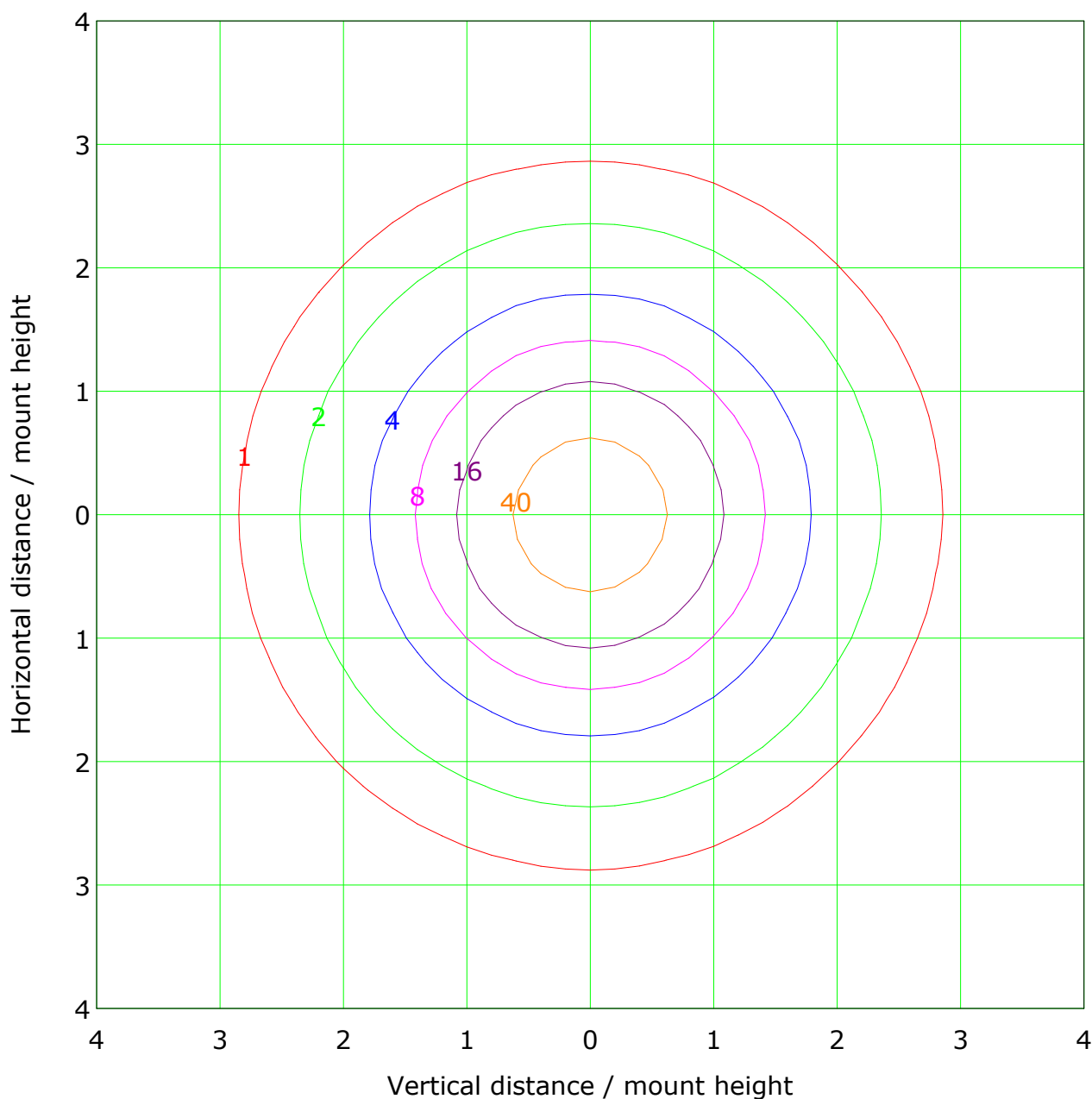
Isocandela (sphere)



Imax (100%): 323 cd

(10%):	32 cd	(16%):	52 cd
(25%):	81 cd	(40%):	129 cd
(63%):	203 cd	(100%):	323 cd

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 80.7 lx	
— (1%):	0.8 lx	— (2%):	1.6 lx
— (5%):	4.0 lx	— (10%):	8.1 lx
— (20%):	16.1 lx	— (50%):	40.3 lx
— (100%):	80.7 lx		

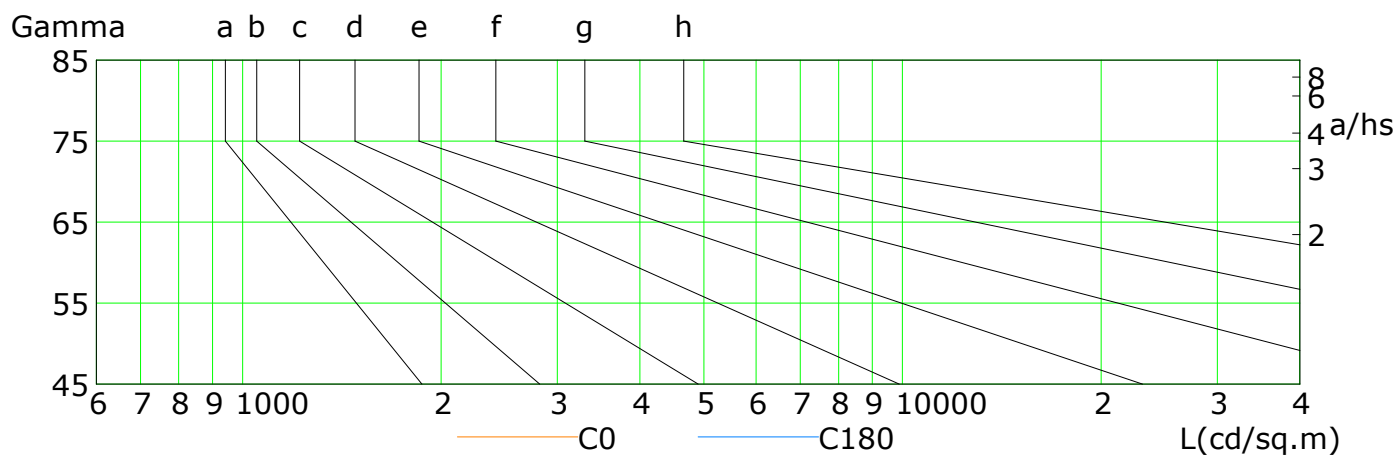
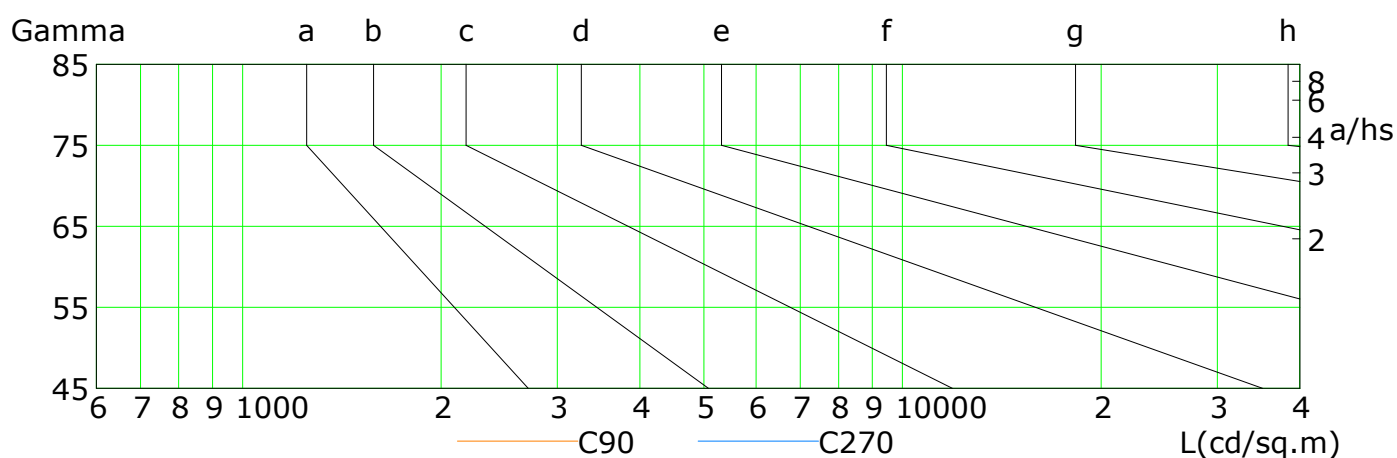
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

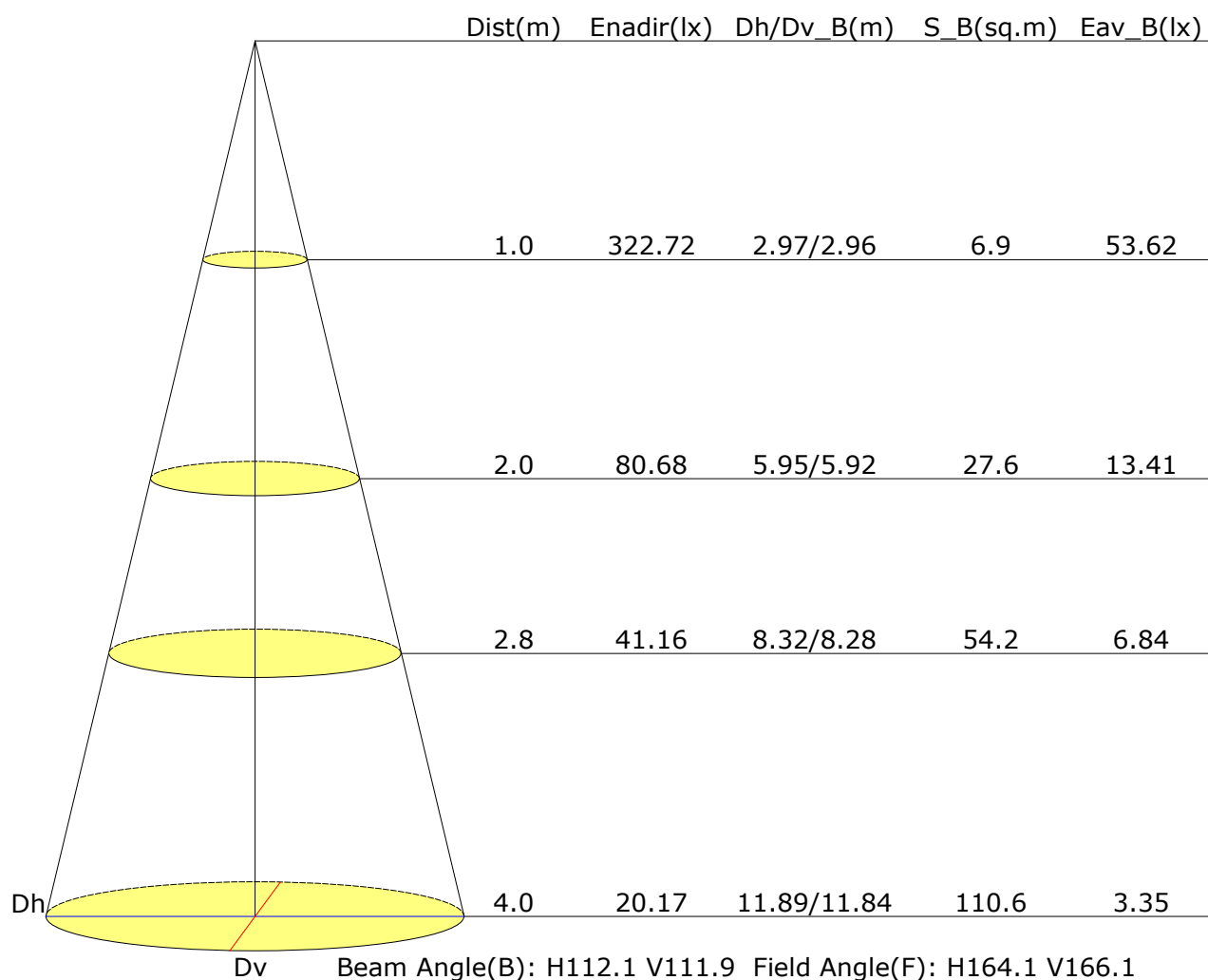


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	212	190	166	142	117	91	66	41	18
C90	212	190	167	143	119	95	71	47	25
C180	212	190	167	143	118	92	67	43	19
C270	210	188	165	141	117	93	69	45	23

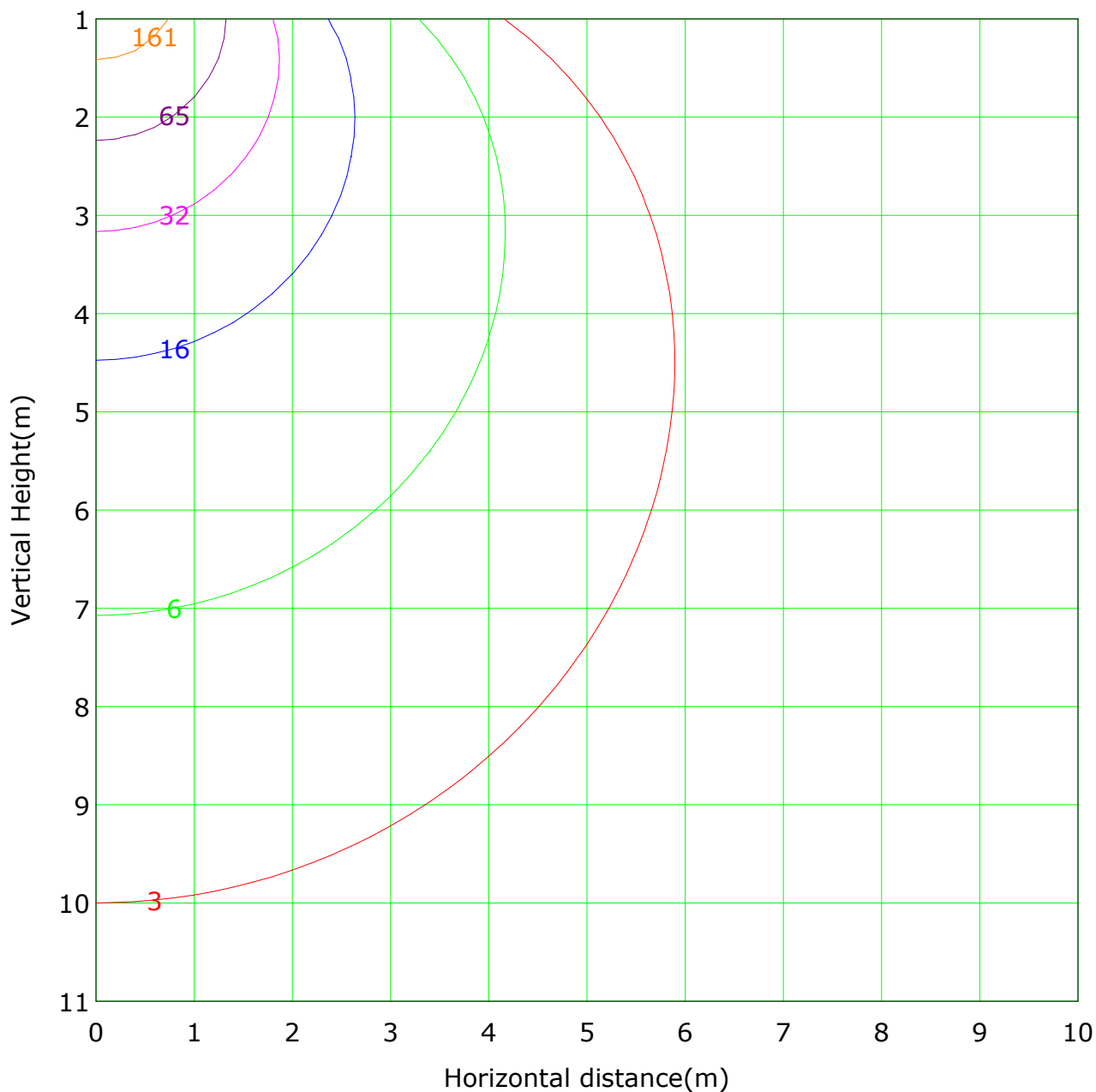
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 322.7 lx

— (1%): 3.2 lx	— (2%): 6.5 lx
— (5%): 16.1 lx	— (10%): 32.3 lx
— (20%): 64.5 lx	— (50%): 161.4 lx
— (100%): 322.7 lx	