

Report No.:

Test Time: 18/04/2025 20:40

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-SL18-25+LLD-25-FM+LLP-HS06

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: 1090.4 lm

Downward Ratio: 73.13%

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 73.13%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 152.4, 162.6, 152.9, 152.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 101.9, 116.0, 113.6, 114.0

Luminaire Efficacy Rating (LER): 82.29

Central Intensity: 404.76 cd

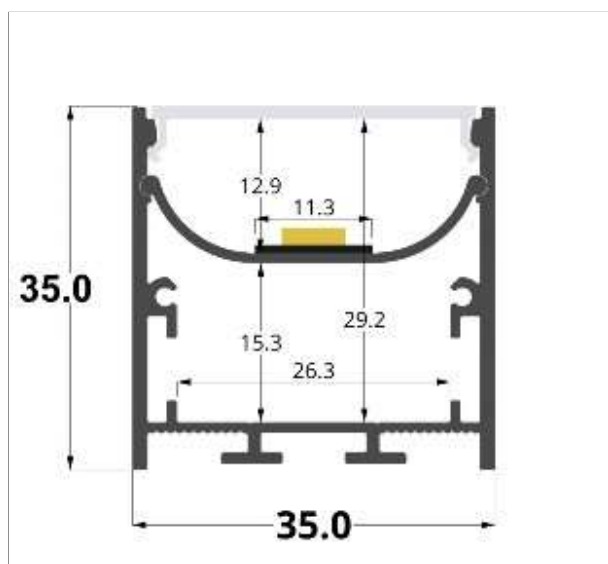
Max. Intensity: 405.25 cd

Pos of Max. Intensity: H22.5 V1

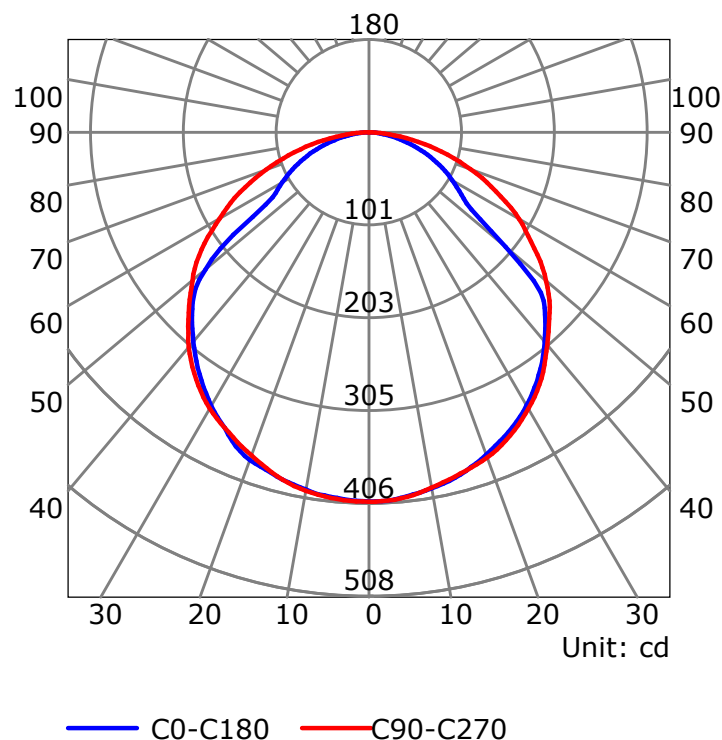
S/MH(C0/C180): 1.27

S/MH(C90/C270): 1.28

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

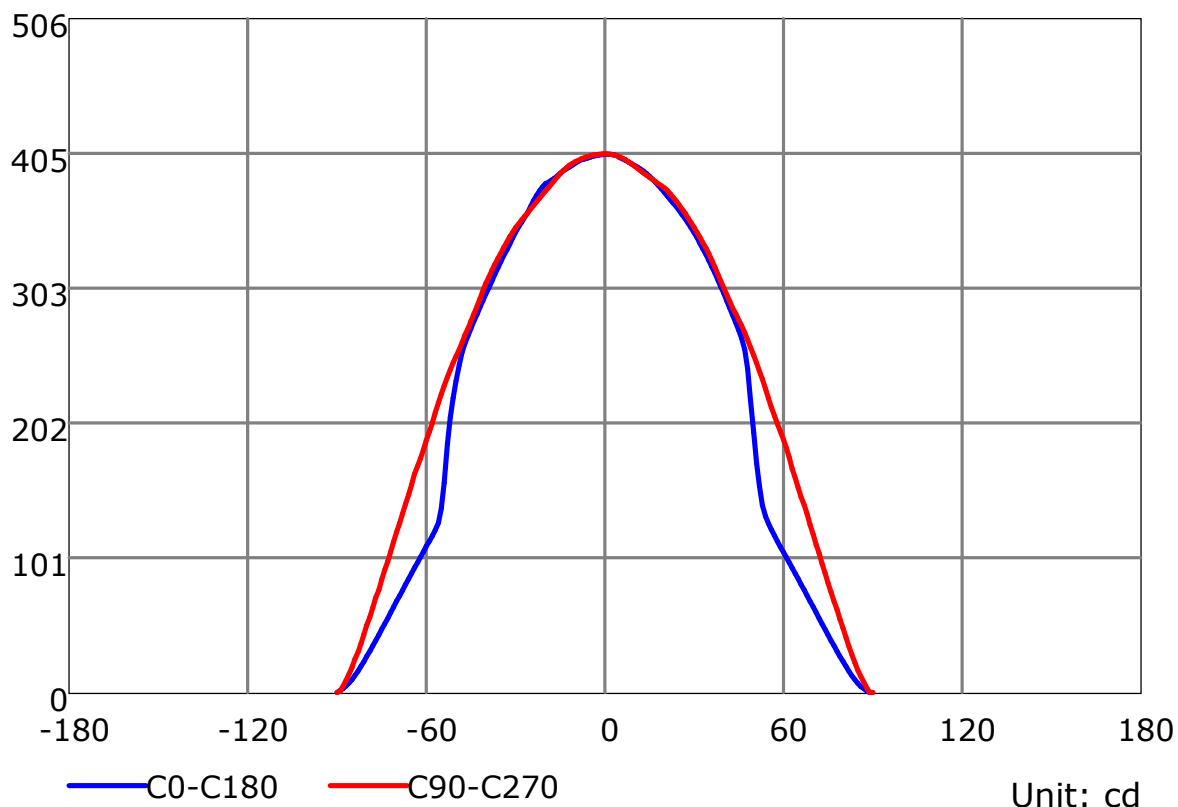
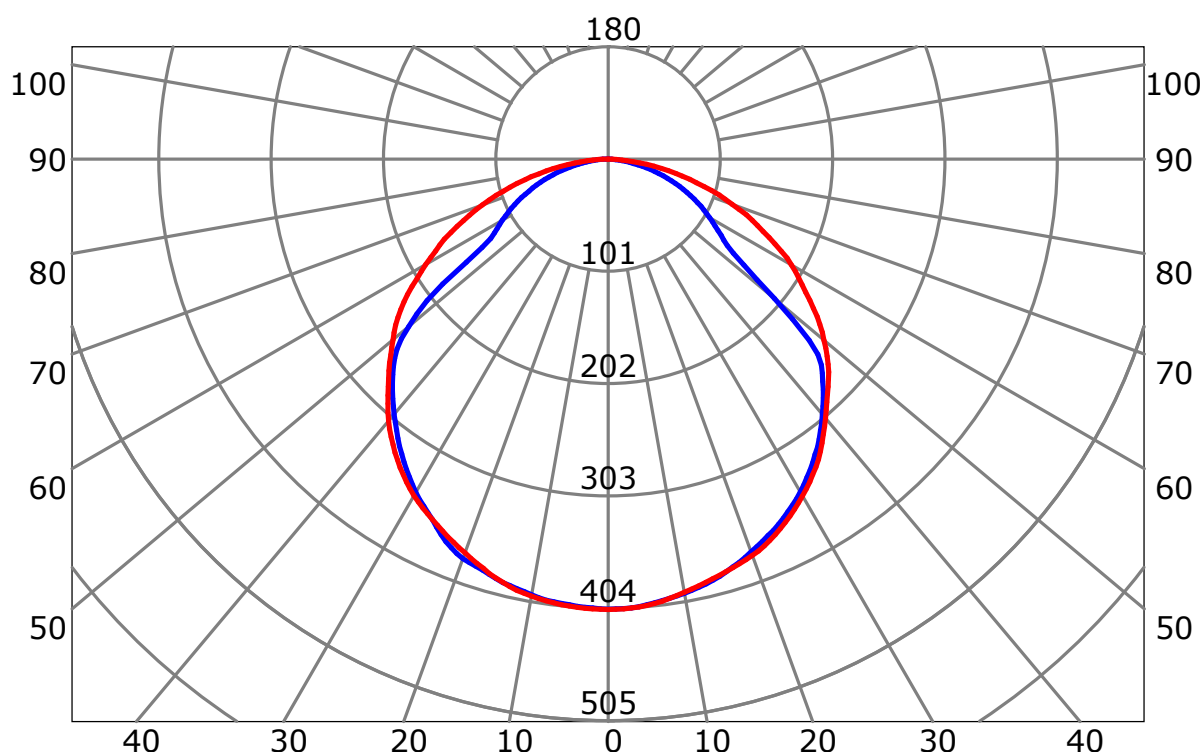
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

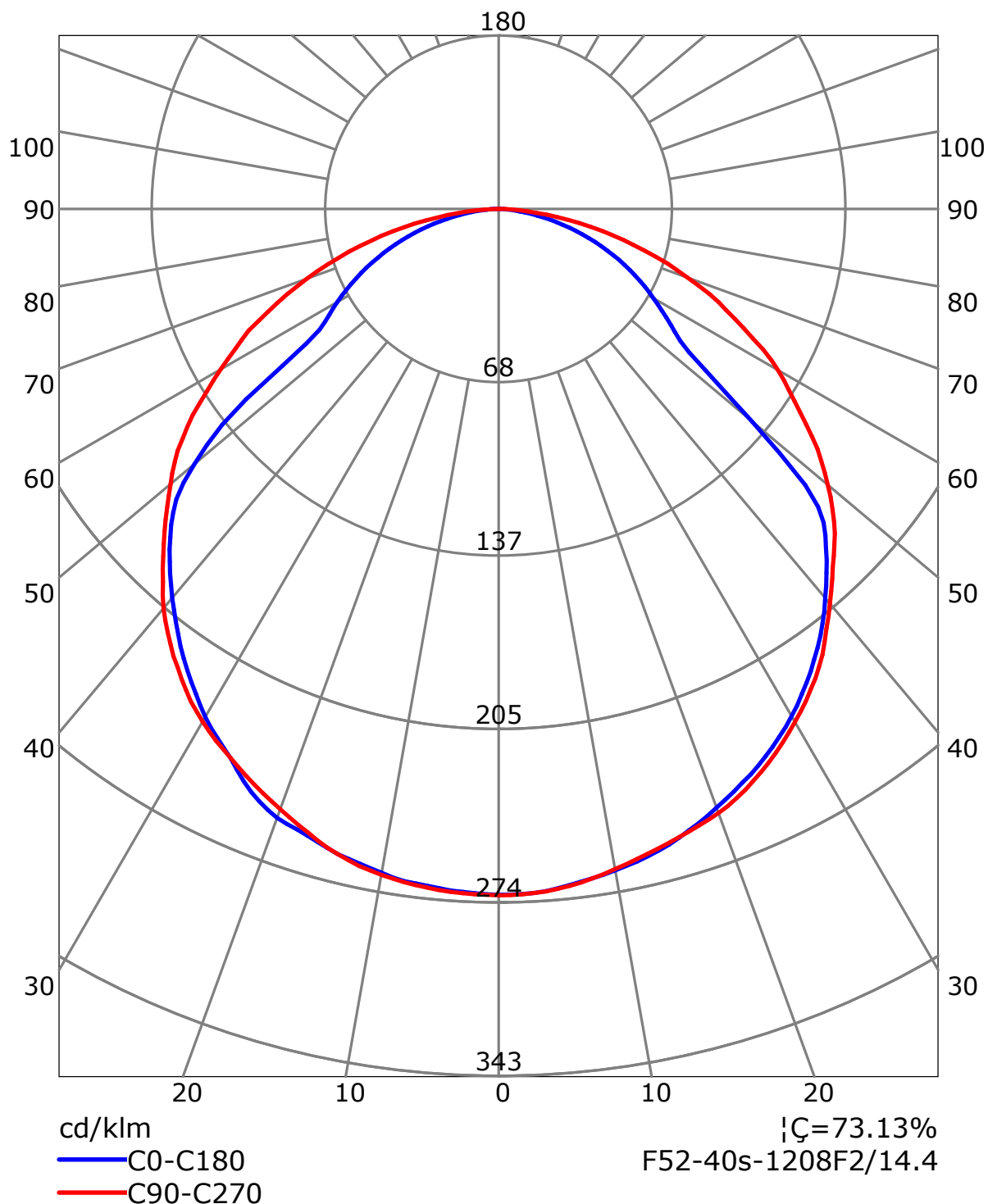
Luminous Intensity Distribution Curve



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:

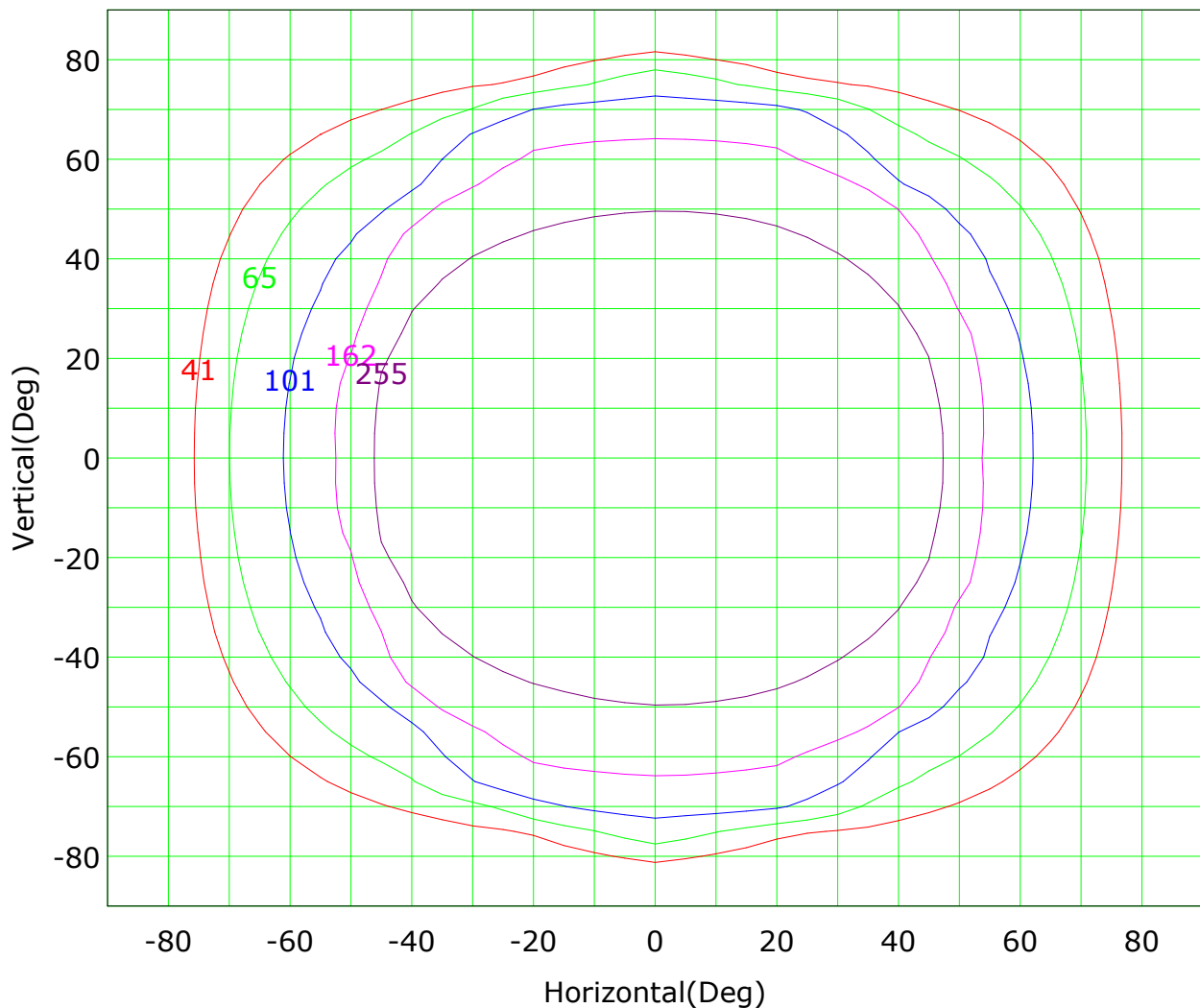
Luminous Intensity Distribution Curve(cd/klm)



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%): 405 cd

(10%):	41 cd	(16%):	65 cd
(25%):	101 cd	(40%):	162 cd
(63%):	255 cd	(100%):	405 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

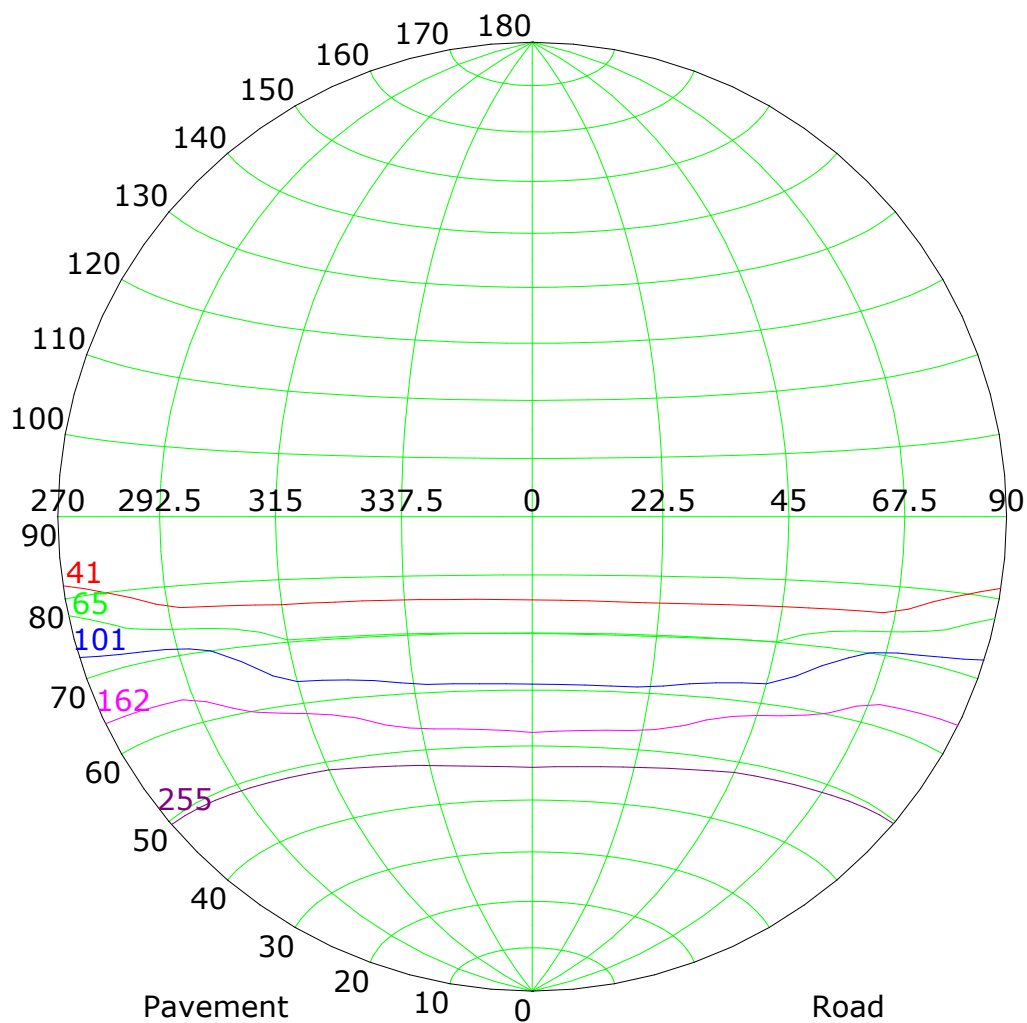
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



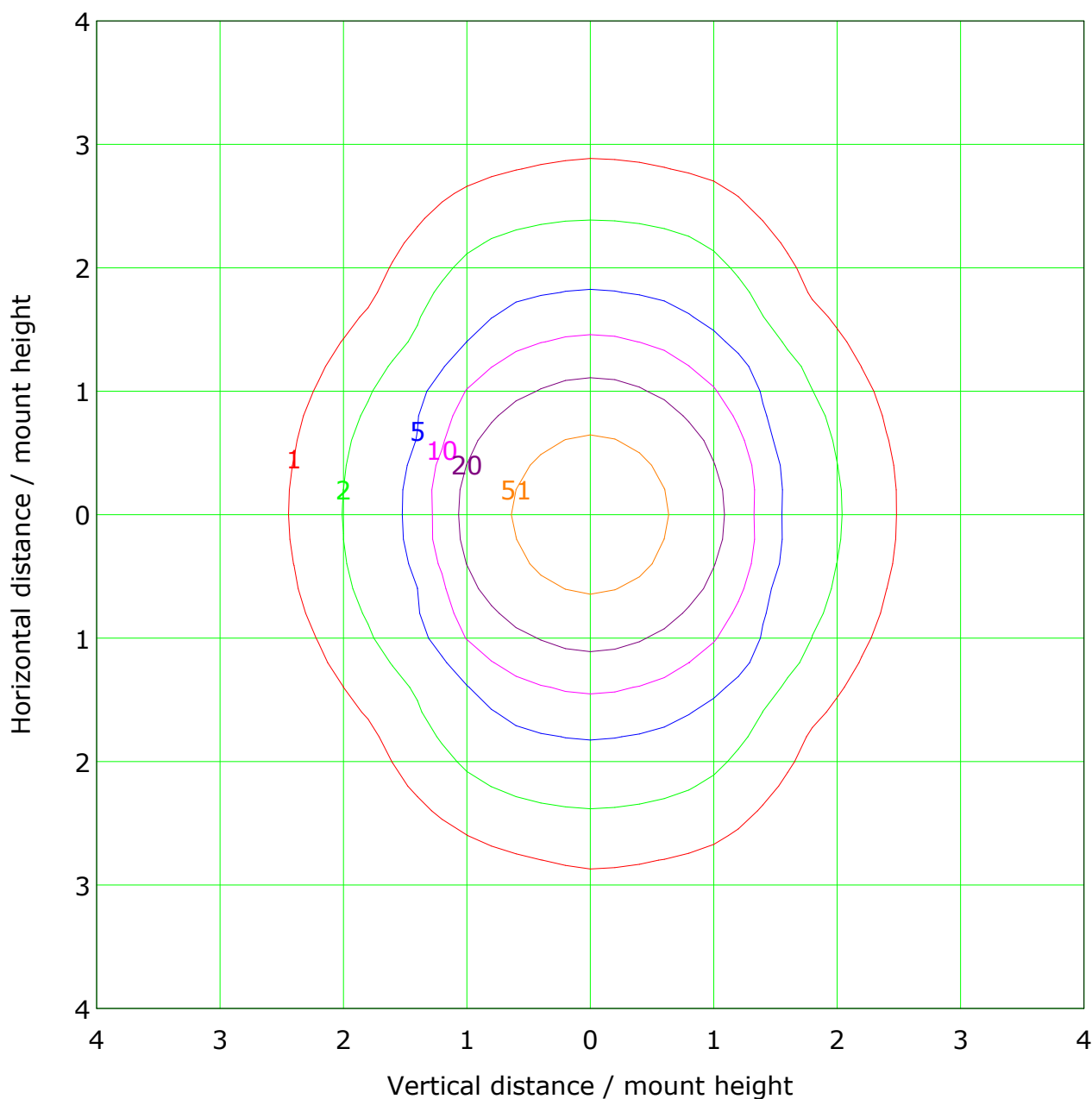
Imax (100%): 405 cd

(10%):	41 cd	(16%):	65 cd
(25%):	101 cd	(40%):	162 cd
(63%):	255 cd	(100%):	405 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%): 101.3 lx

(1%): 1.0 lx	(2%): 2.0 lx
(5%): 5.1 lx	(10%): 10.1 lx
(20%): 20.3 lx	(50%): 50.6 lx
(100%): 101.3 lx	

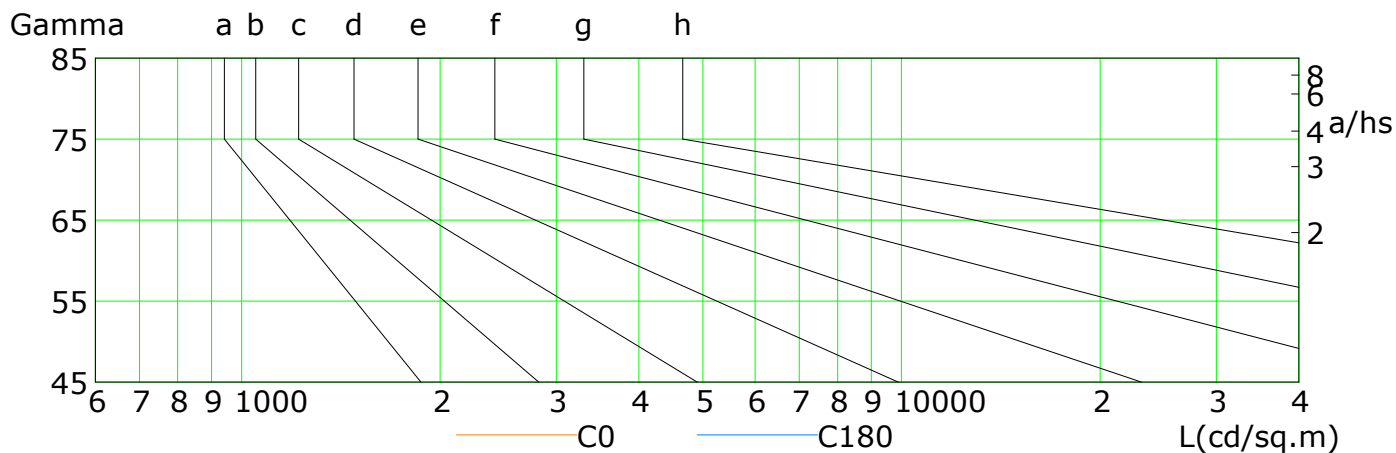
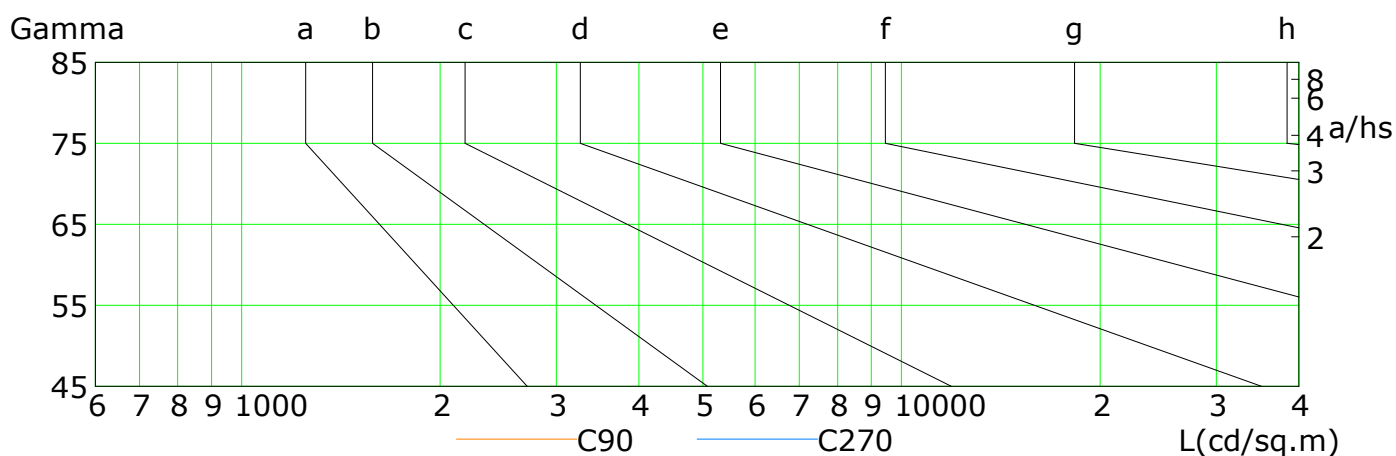
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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	273	196	127	106	85	64	44	23	7
C90	280	254	221	190	154	119	82	49	17
C180	274	234	139	110	90	69	48	27	10
C270	279	253	224	189	156	120	85	51	19

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

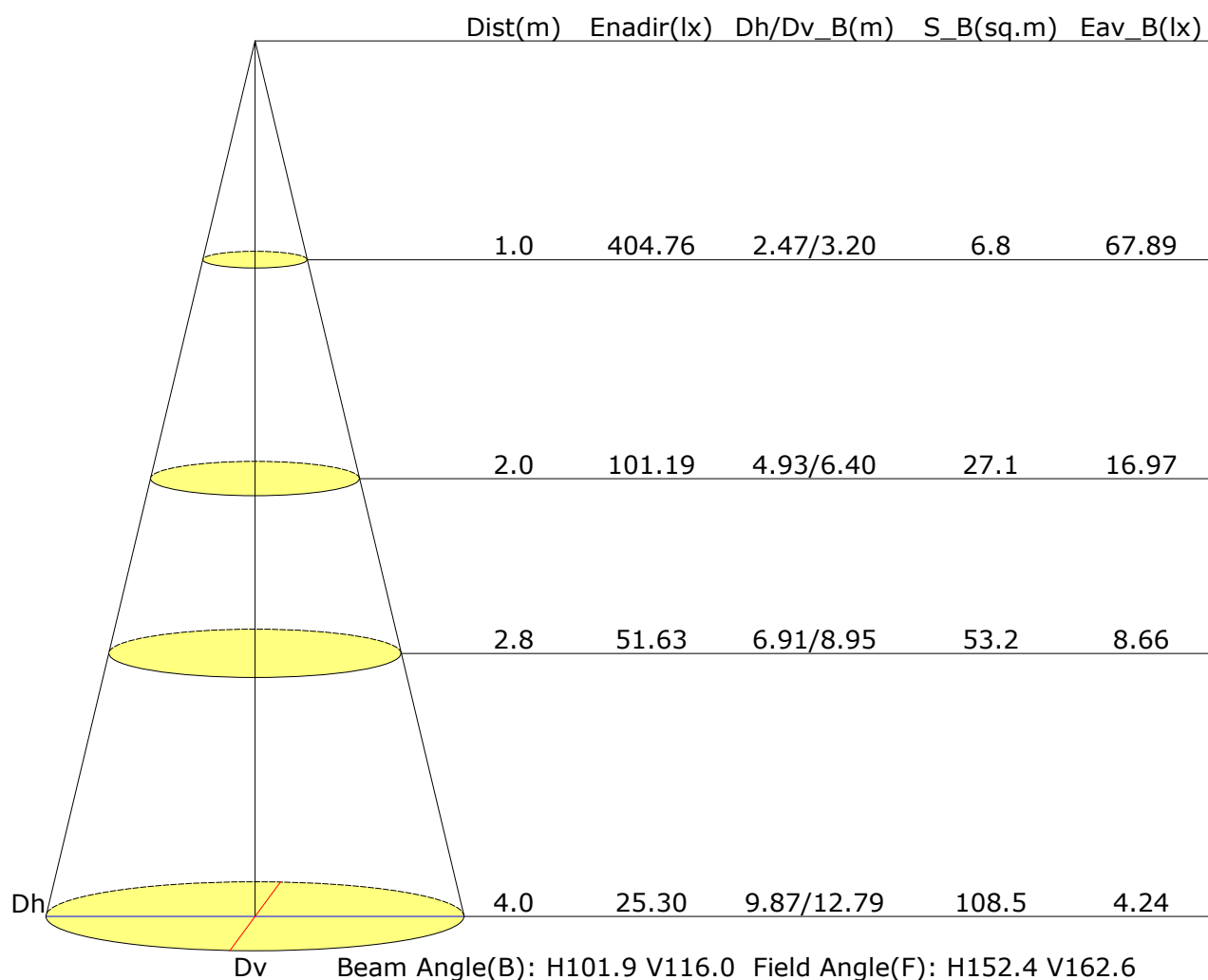
Test Device: GPM-1800B

Distance: 7.792 m

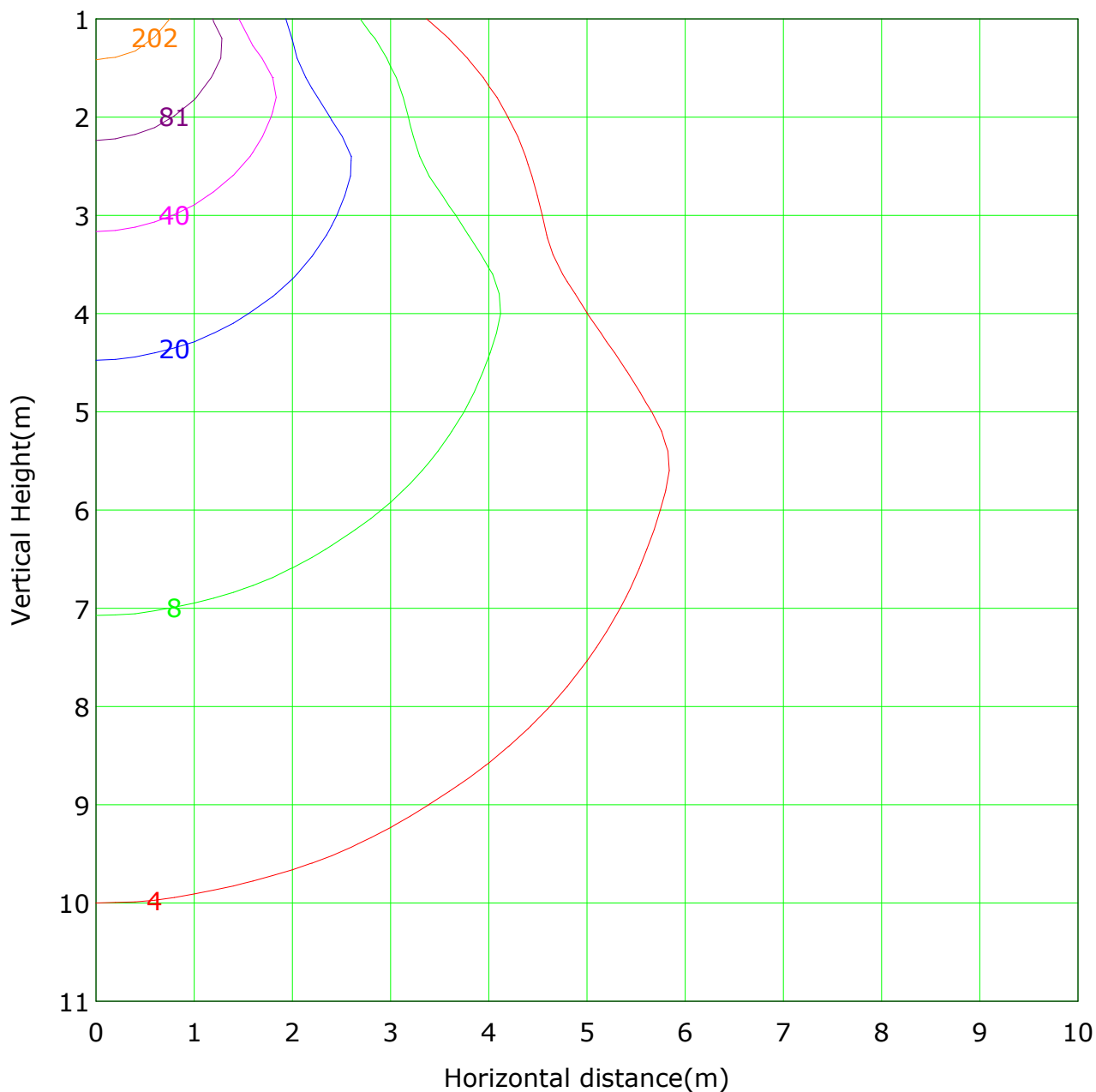
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 404.8 lx

— (1%): 4.0 lx	— (2%): 8.1 lx
— (5%): 20.2 lx	— (10%): 40.5 lx
— (20%): 81.0 lx	— (50%): 202.4 lx
— (100%): 404.8 lx	

Report No.:

Test Time: 18/04/2025 23:05

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-SL18-25+LLD-25-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: 553.9 lm

Downward Ratio: 37.15%

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 37.15%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.5, 144.7, 145.3, 145.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.9, 58.8, 76.3, 76.0

Luminaire Efficacy Rating (LER): 41.82

Central Intensity: 264.88 cd

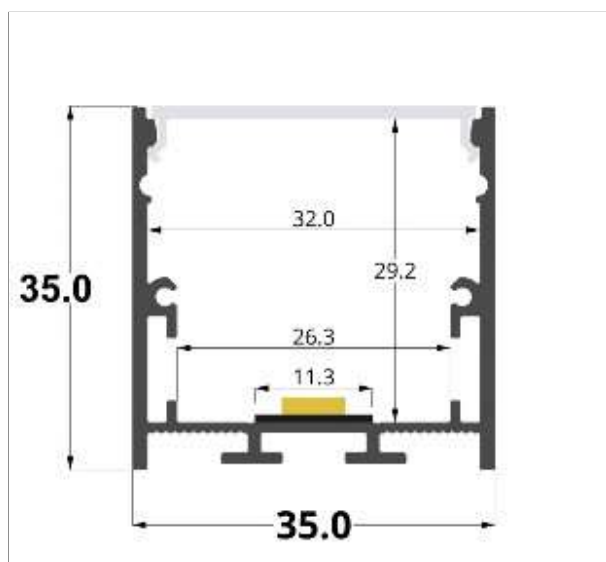
Max. Intensity: 265.02 cd

Pos of Max. Intensity: H270 V2

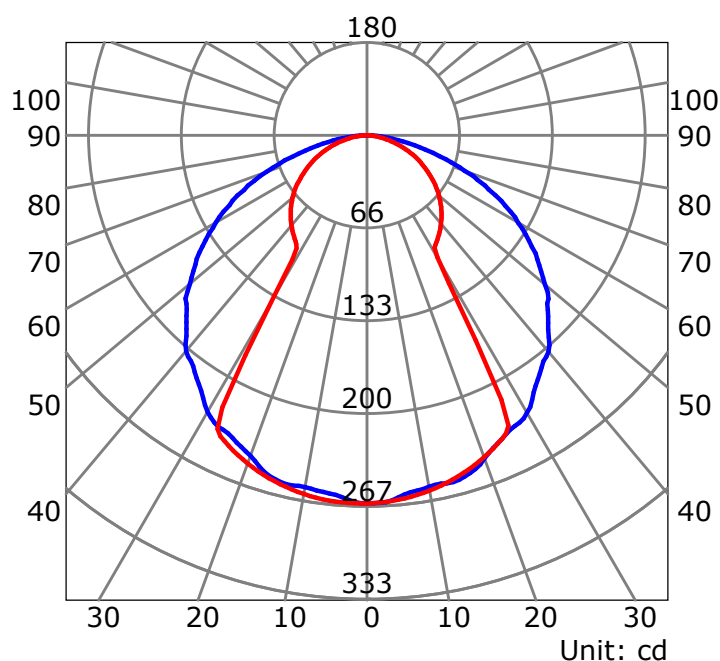
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.07

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

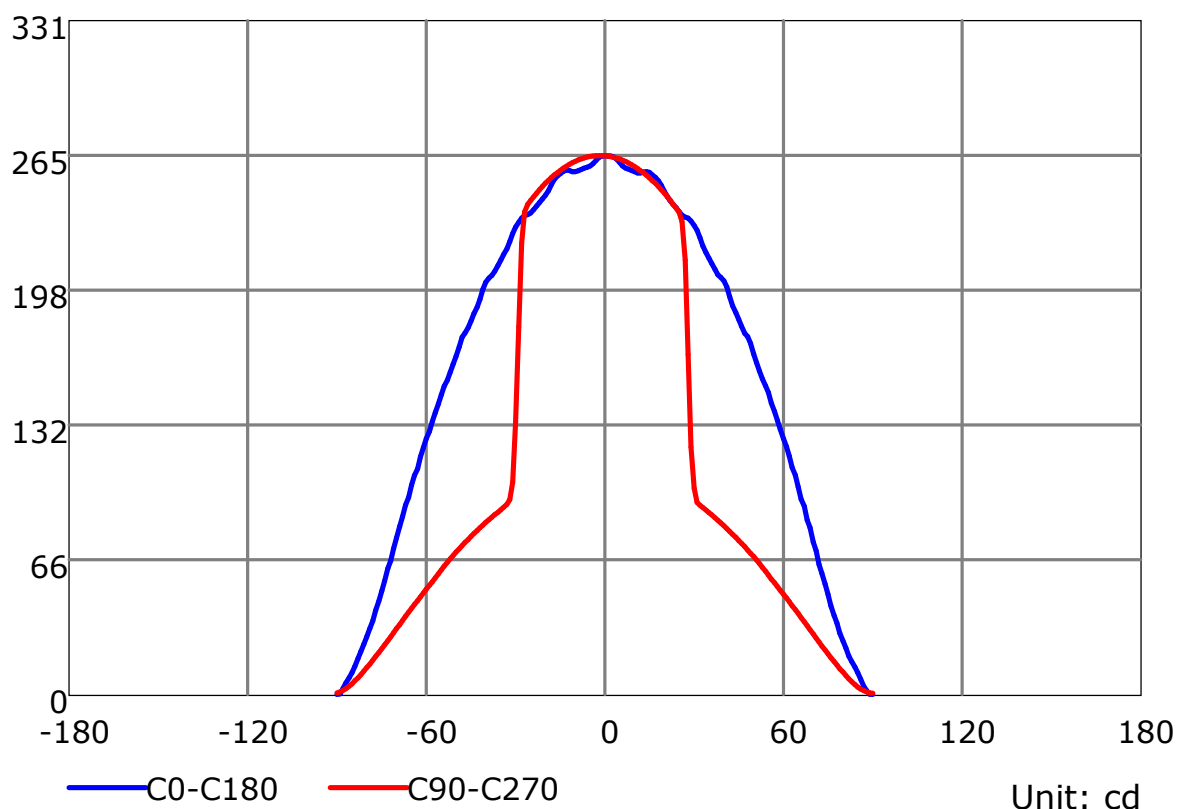
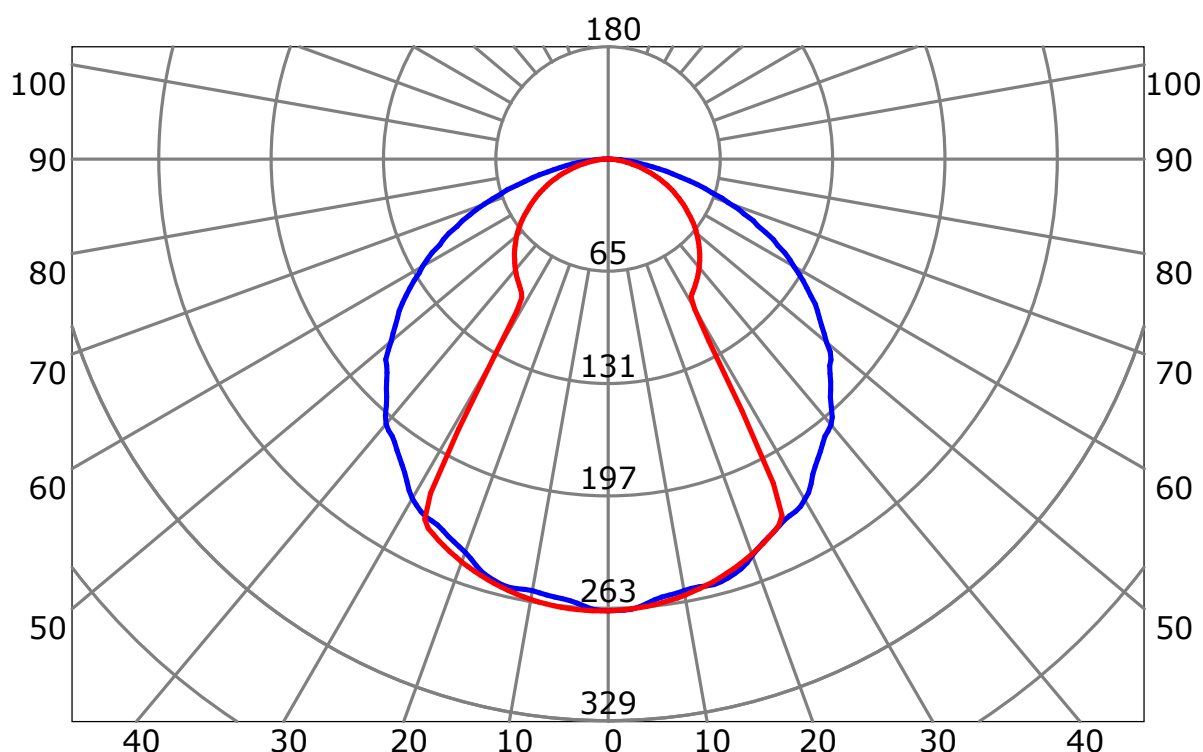
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

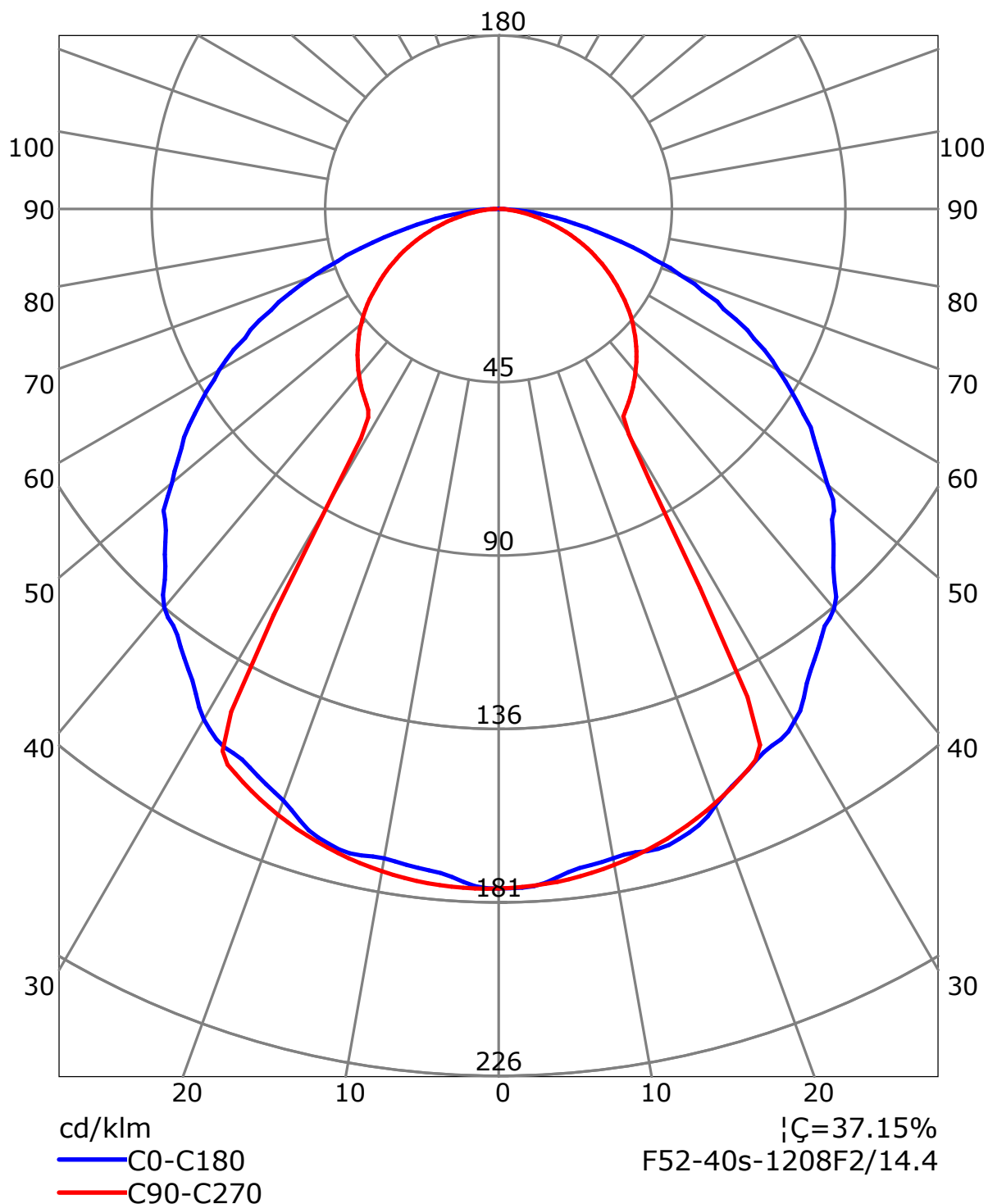
Luminous Intensity Distribution Curve



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:

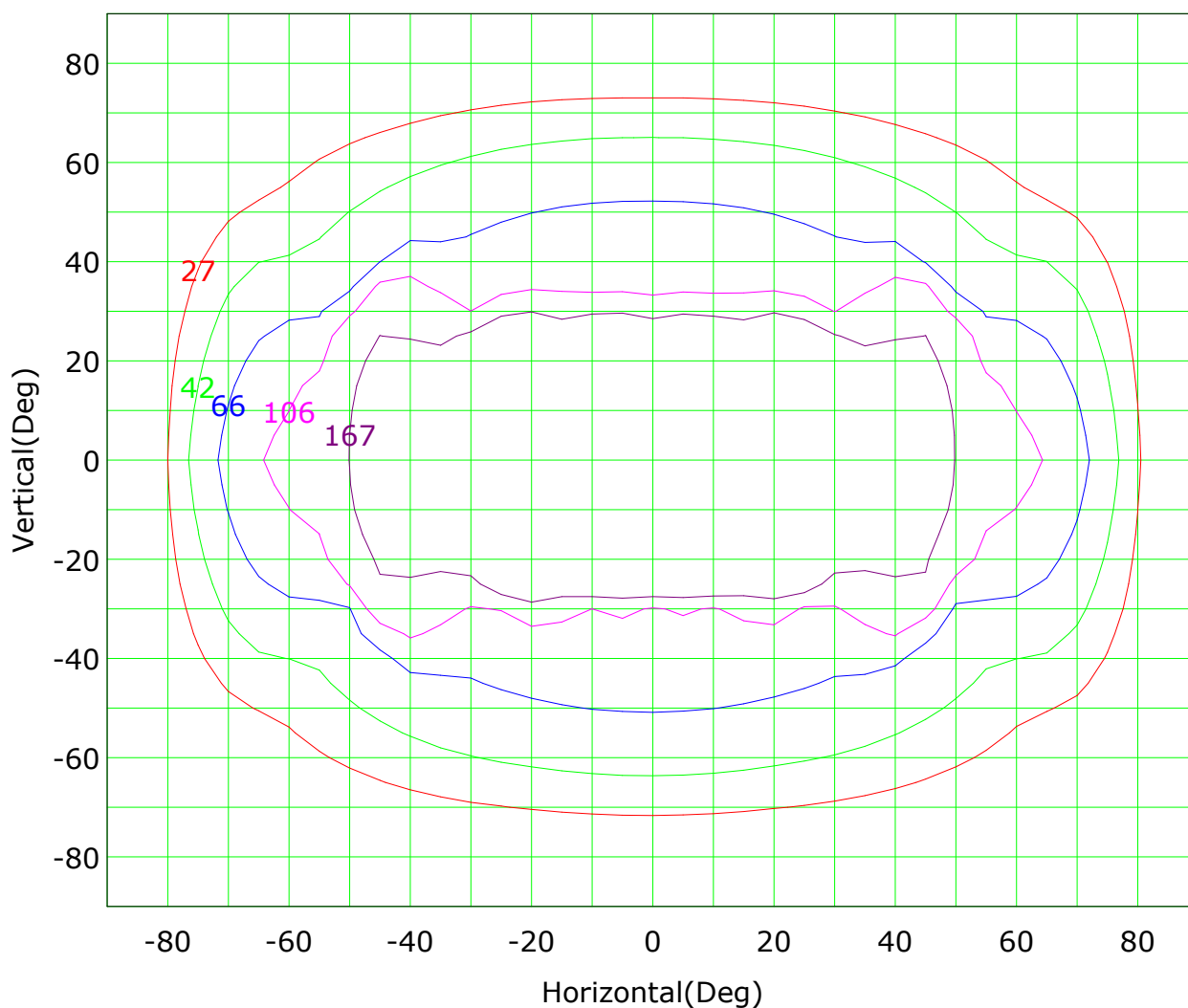
Luminous Intensity Distribution Curve(cd/klm)



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%): 265 cd

(10%):	27 cd	(16%):	42 cd
(25%):	66 cd	(40%):	106 cd
(63%):	167 cd	(100%):	265 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

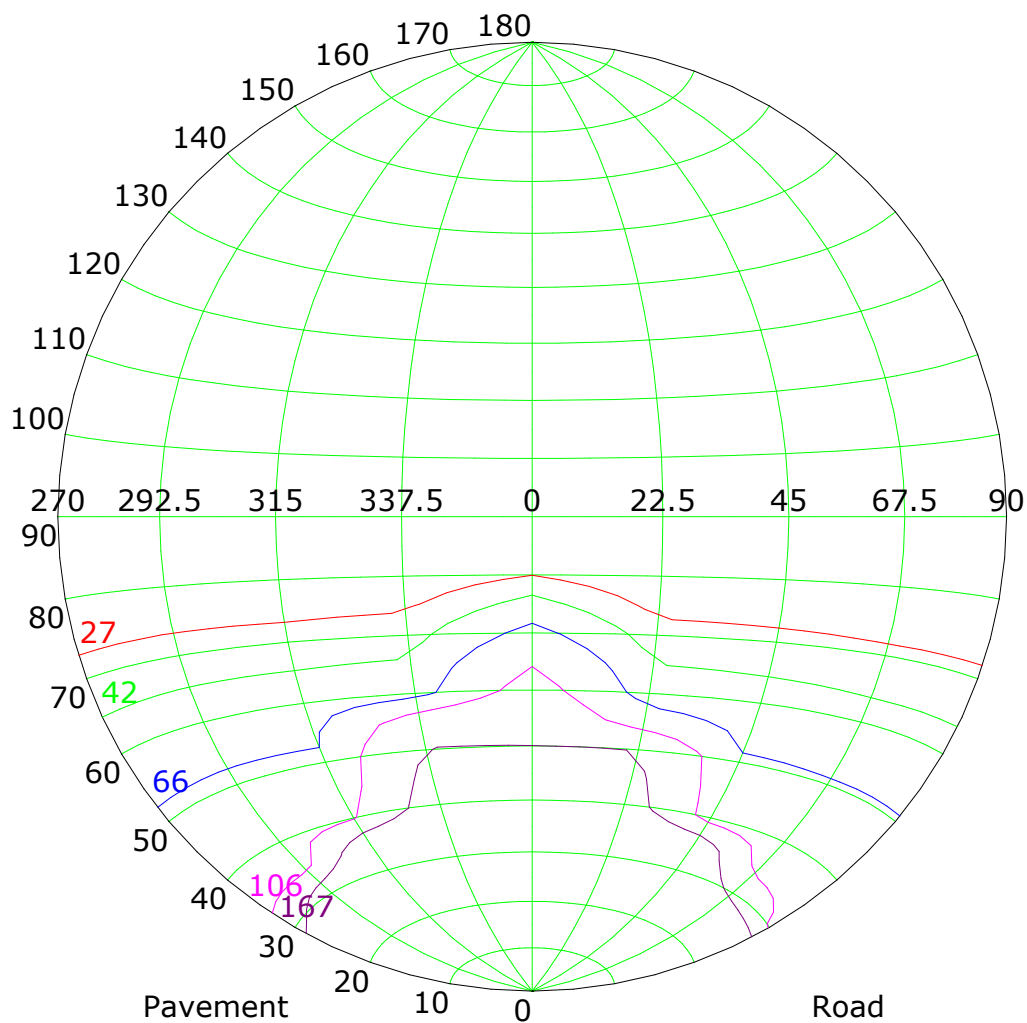
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 265 cd

(10%):	27 cd	(16%):	42 cd
(25%):	66 cd	(40%):	106 cd
(63%):	167 cd	(100%):	265 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

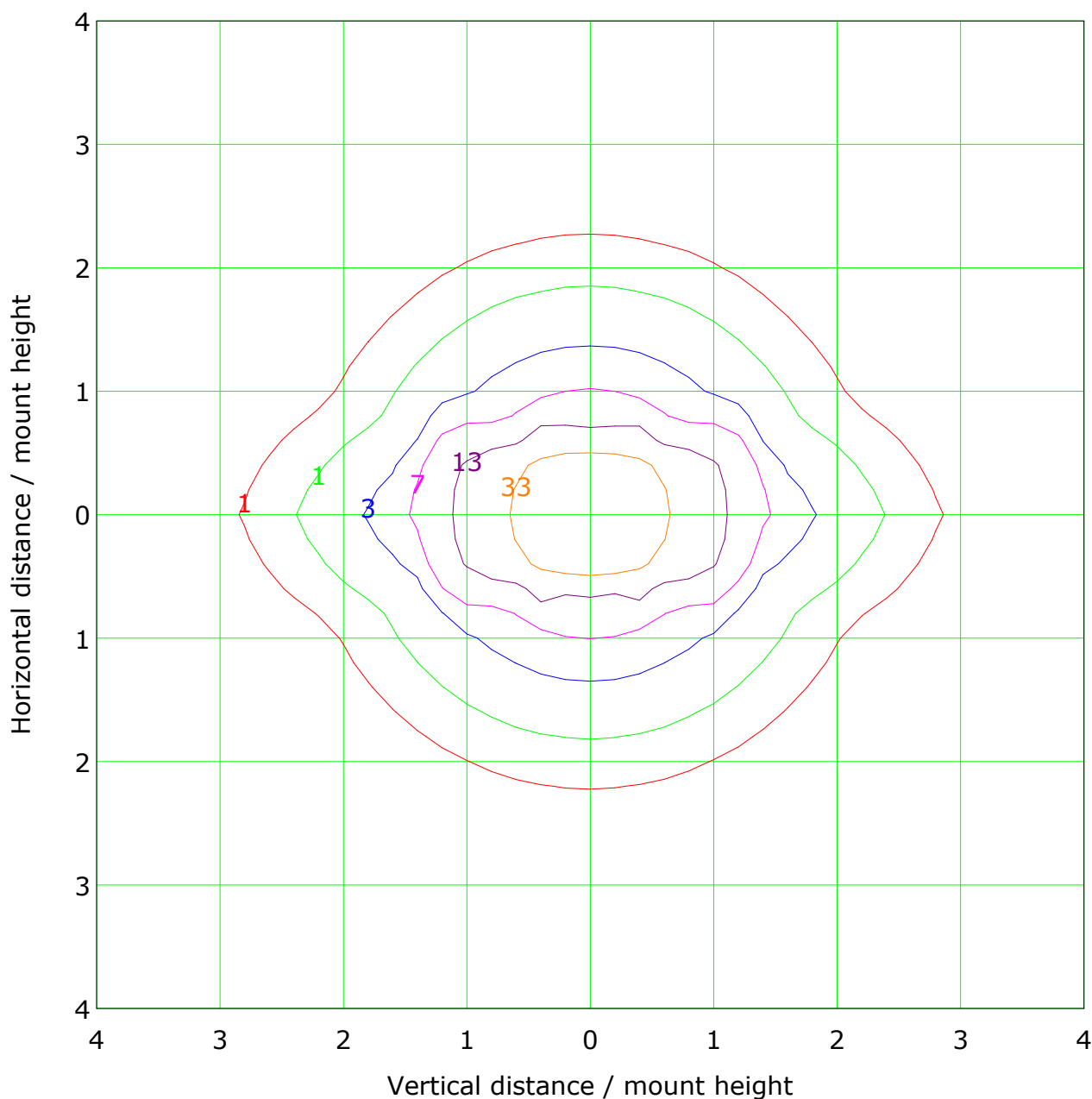
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 66.2 lx	
(1%):	0.7 lx	(2%):	1.3 lx
(5%):	3.3 lx	(10%):	6.6 lx
(20%):	13.2 lx	(50%):	33.1 lx
(100%):	66.2 lx		

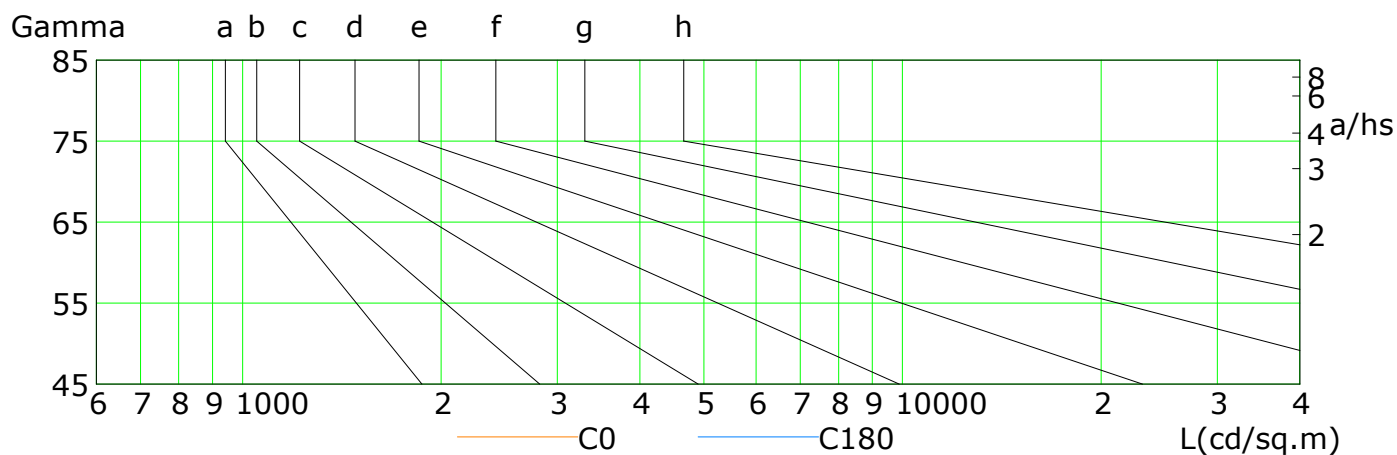
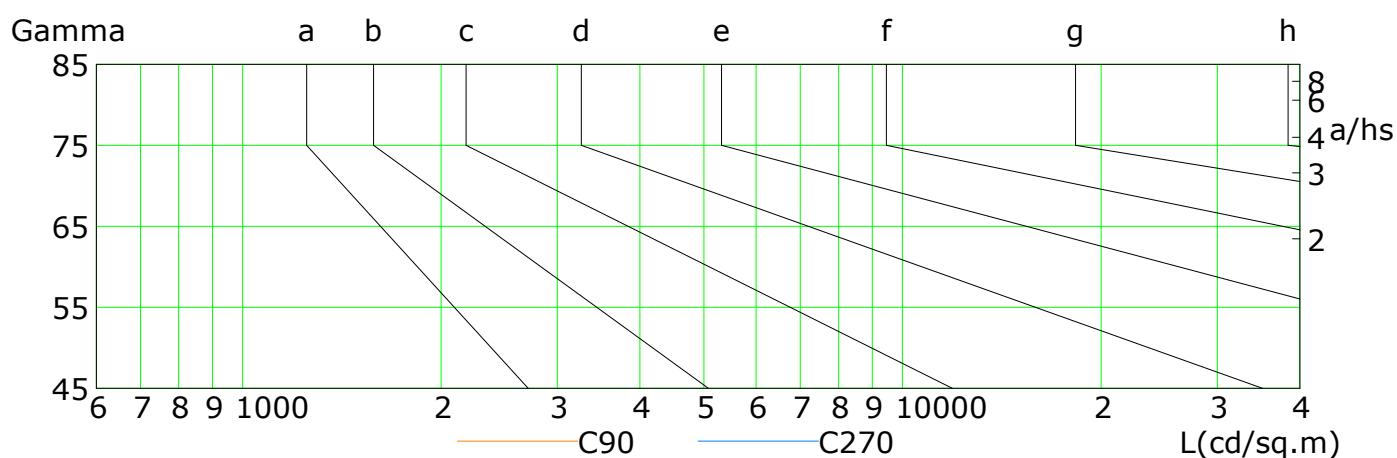
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

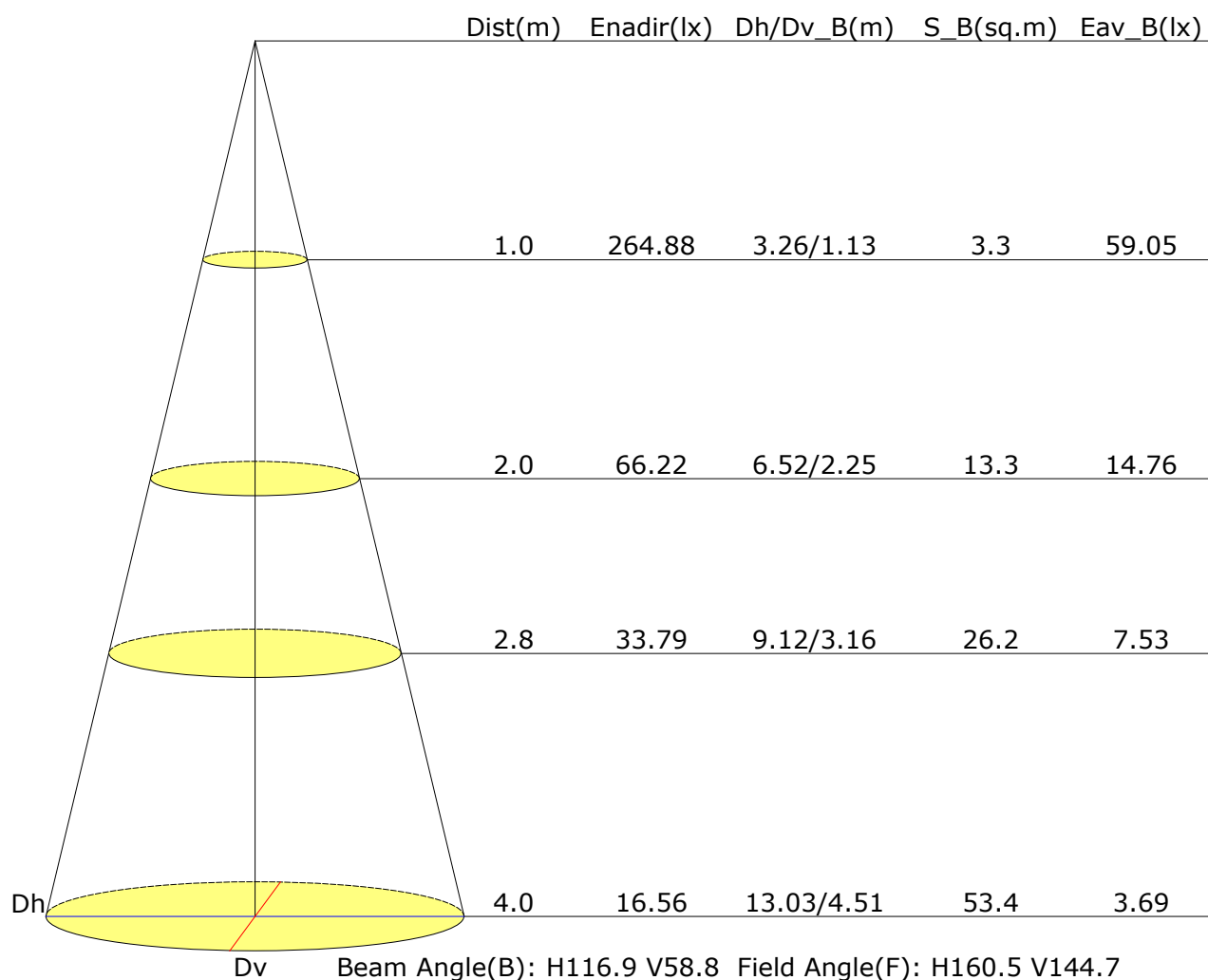


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	185	167	148	126	102	75	49	26	11
C90	76	68	59	49	40	30	20	11	4
C180	184	166	147	126	103	77	51	28	11
C270	78	70	61	52	42	32	23	13	5

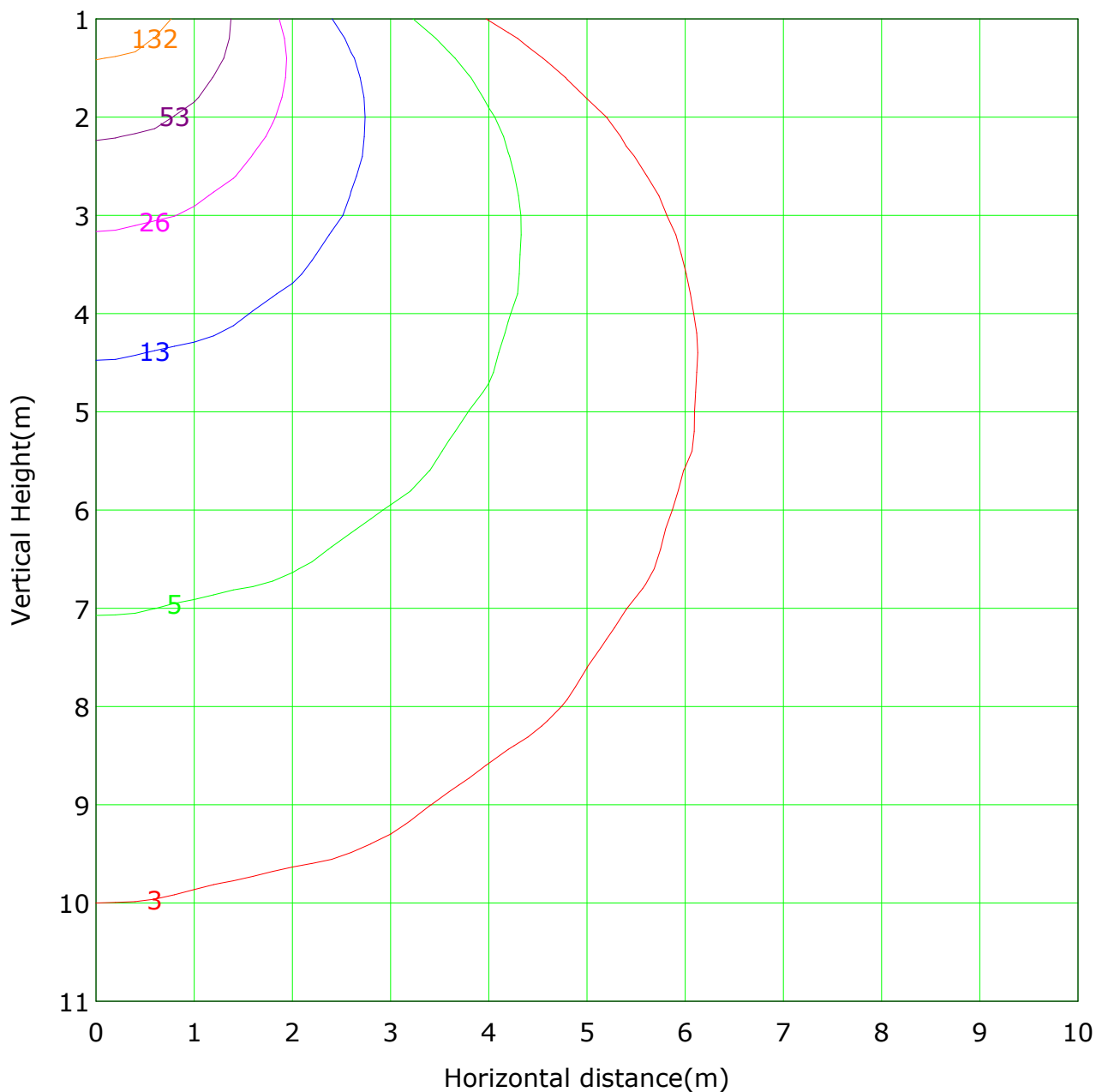
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 264.9 lx

(1%): 2.6 lx	(2%): 5.3 lx
(5%): 13.2 lx	(10%): 26.5 lx
(20%): 53.0 lx	(50%): 132.4 lx
(100%): 264.9 lx	