

Report No.:

Test Time: 08/10/2024 11:49

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-RE13-23+LLP-23-FM

Lamp Description: F52-40s-120DF2 90cm

Number of Lamps: 1

Lumens per Lamp: 795

Voltage: 24.0 V

Current: 0.328 A

Power: 7.87 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 483 lm

Downward Ratio: 60.76%

Total Rated Lamp Lumens: 795.0 lm

Efficiency: 60.76%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.4, 138.7, 145.1, 145.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.0, 94.2, 100.9, 101.2

Luminaire Efficacy Rating (LER): 61.43

Central Intensity: 188.07 cd

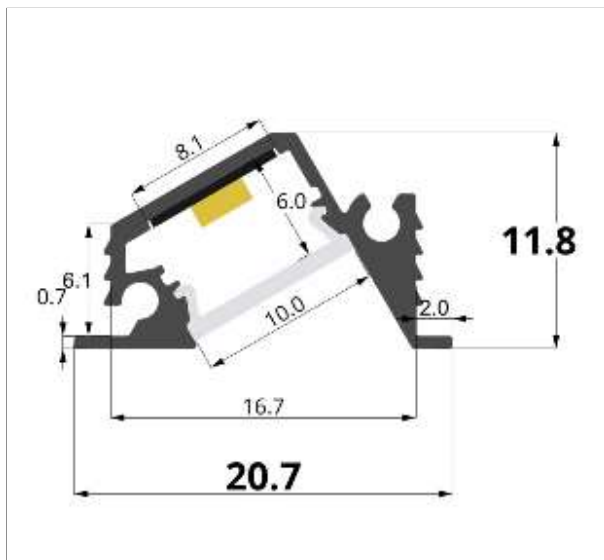
Max. Intensity: 202.58 cd

Pos of Max. Intensity: H90 V18

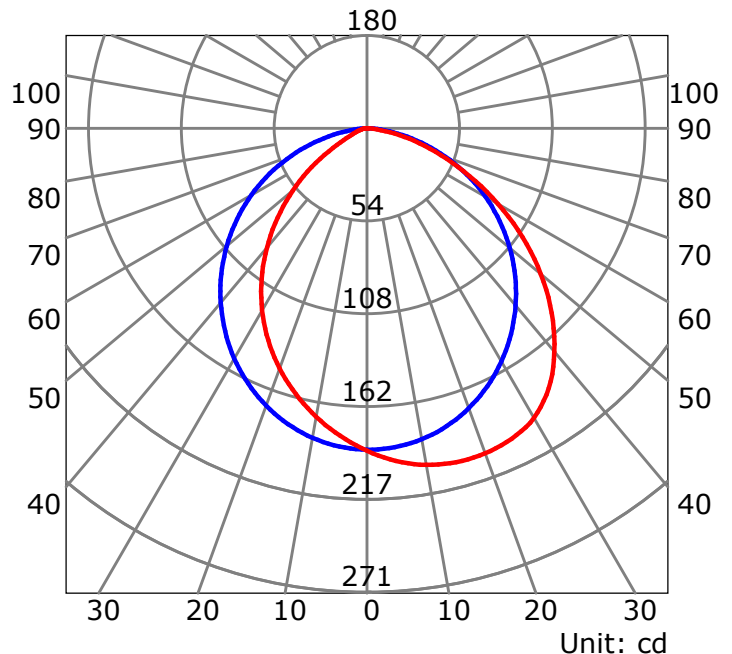
S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.25

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

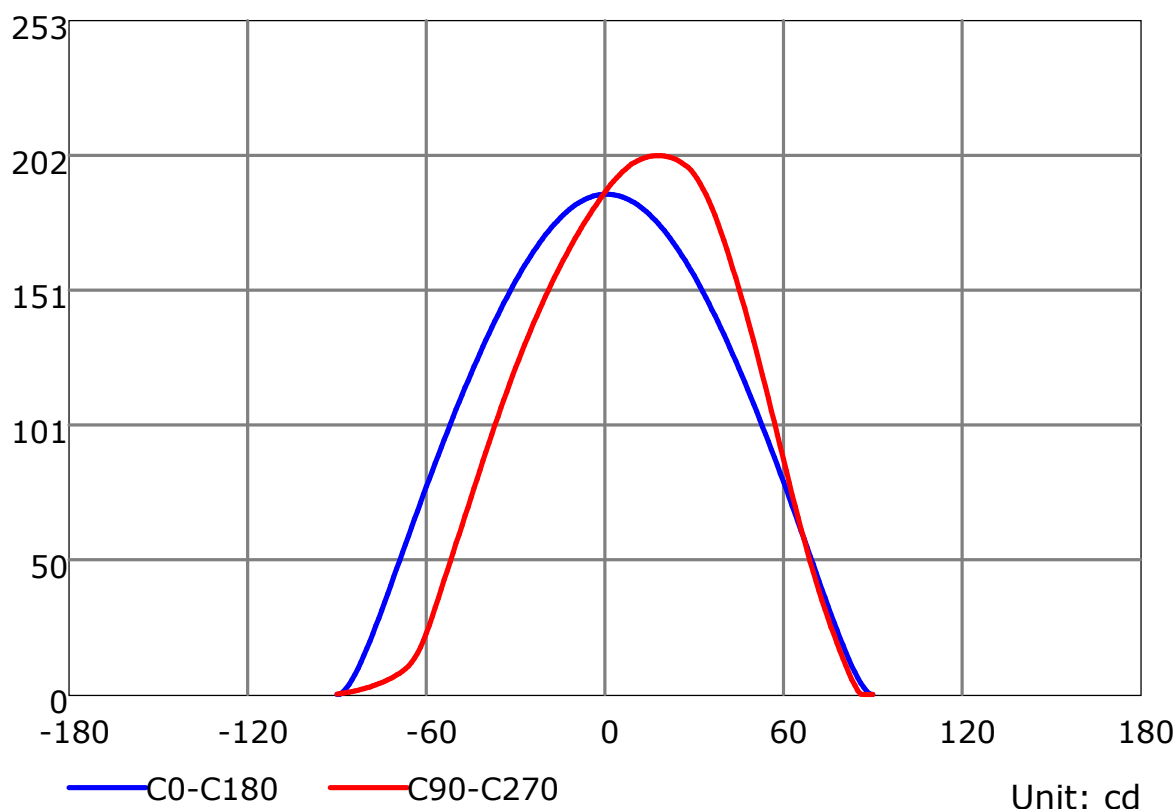
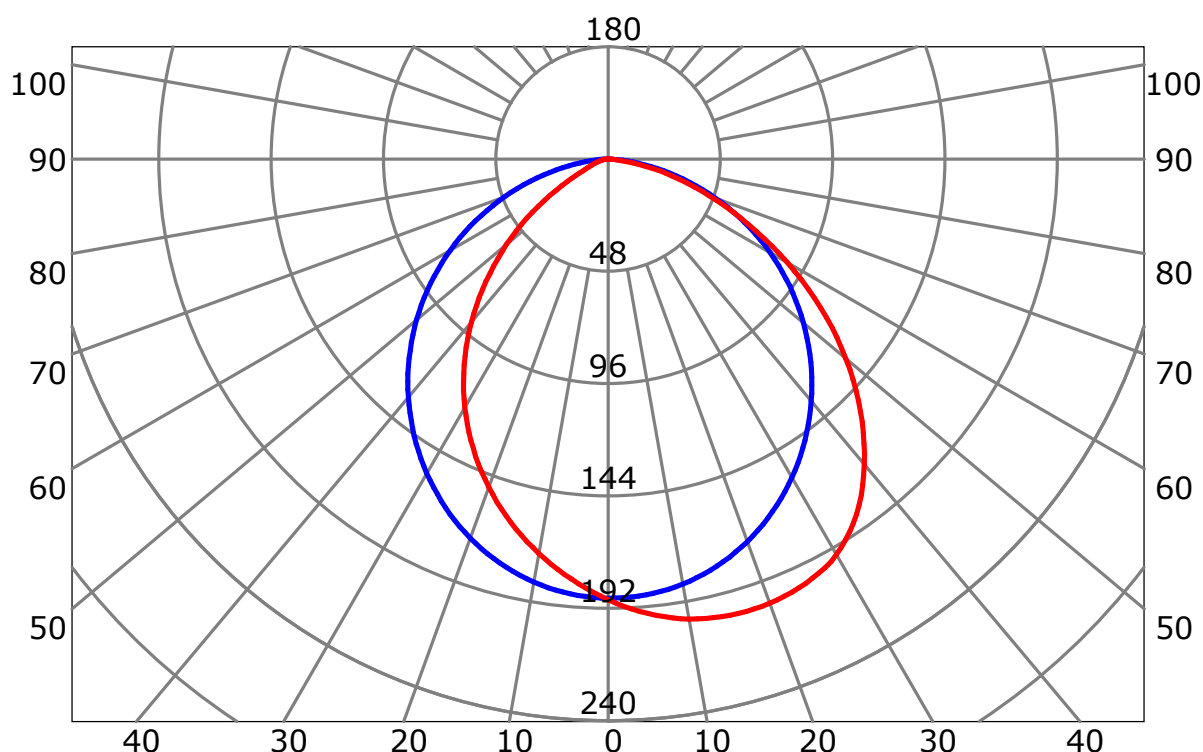
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

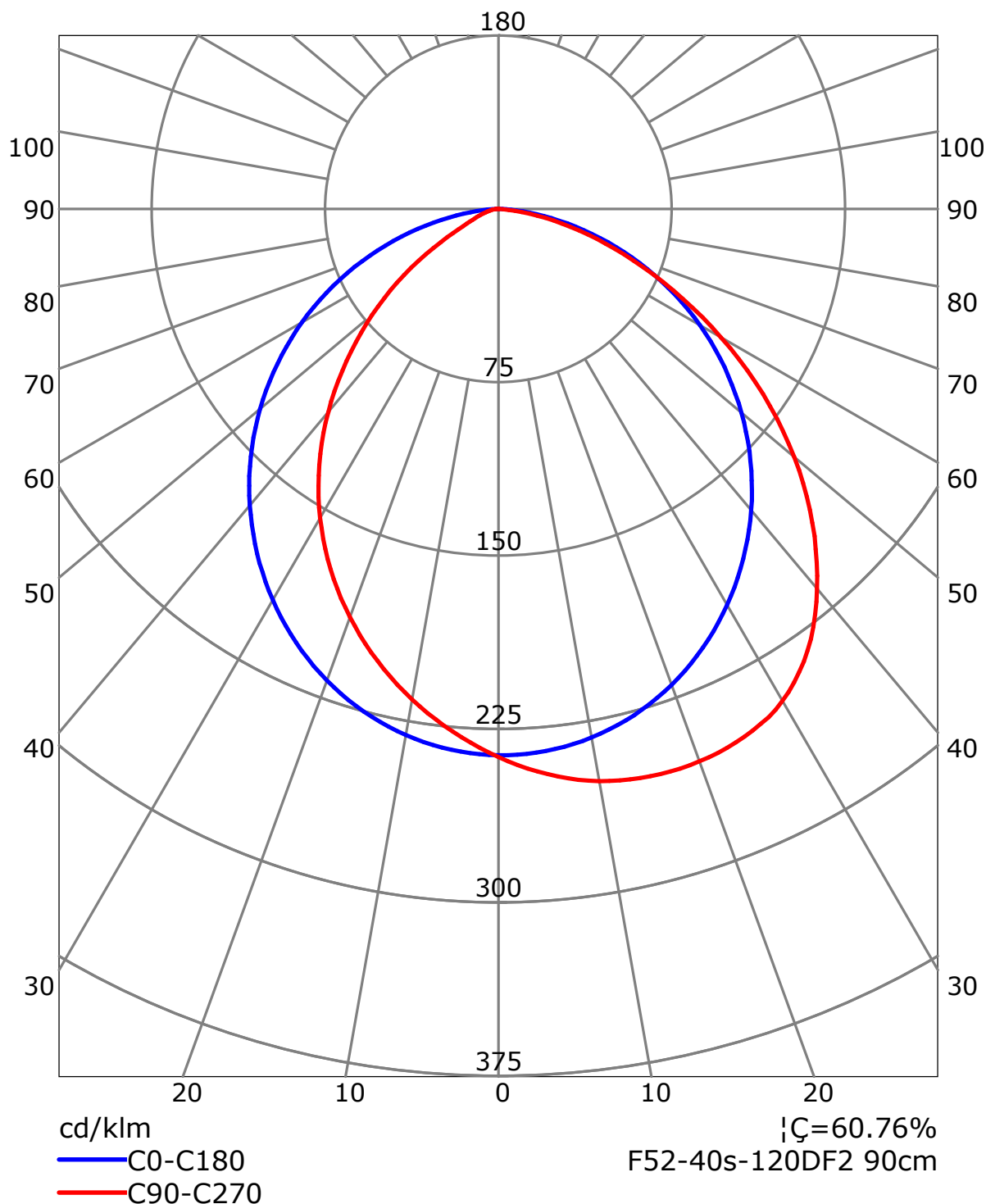


Unit: cd

C Plane (°):0.0-360.0: 10.0
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:

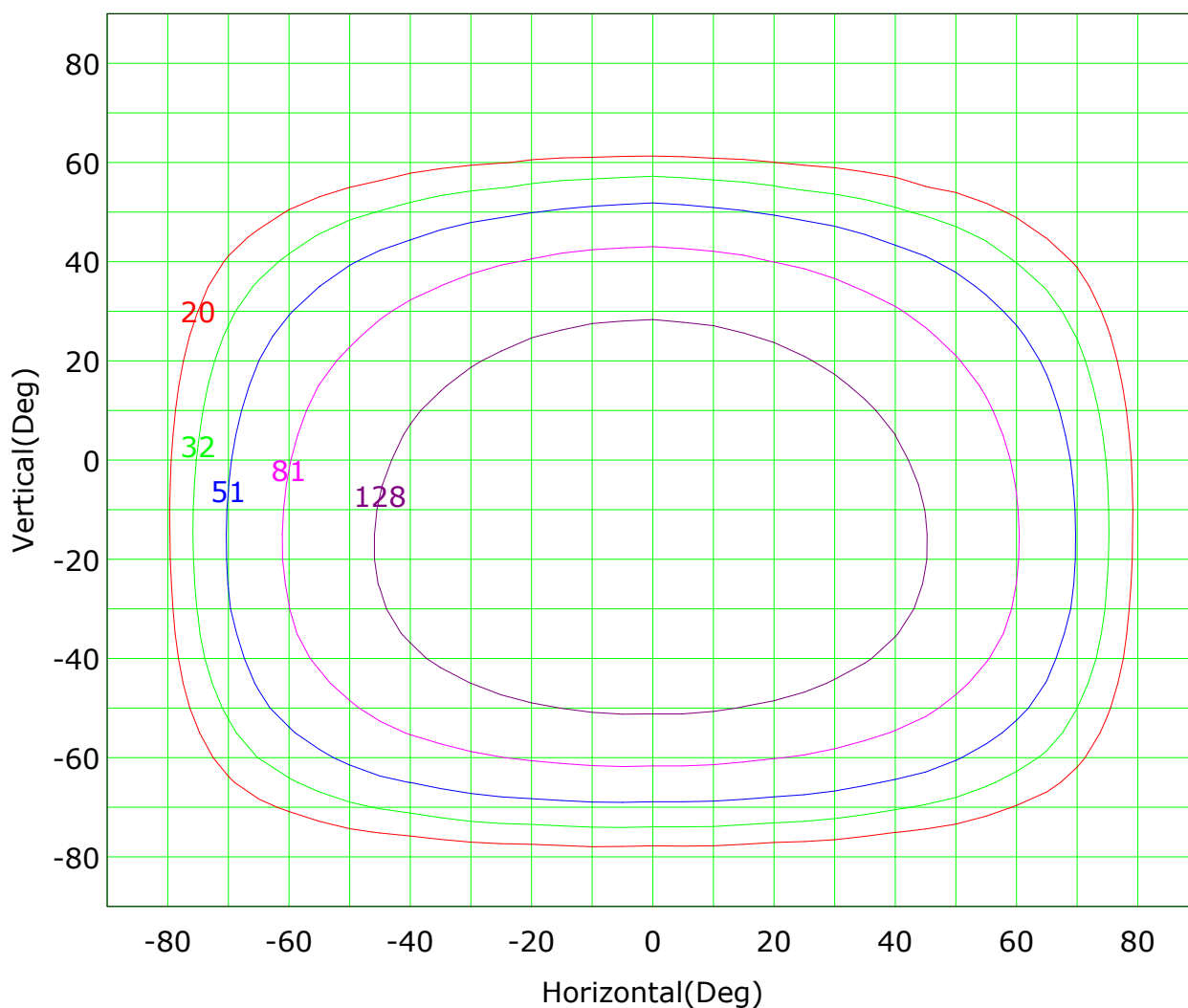
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 10.0
 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%): 203 cd

(10%):	20 cd	(16%):	32 cd
(25%):	51 cd	(40%):	81 cd
(63%):	128 cd	(100%):	203 cd

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

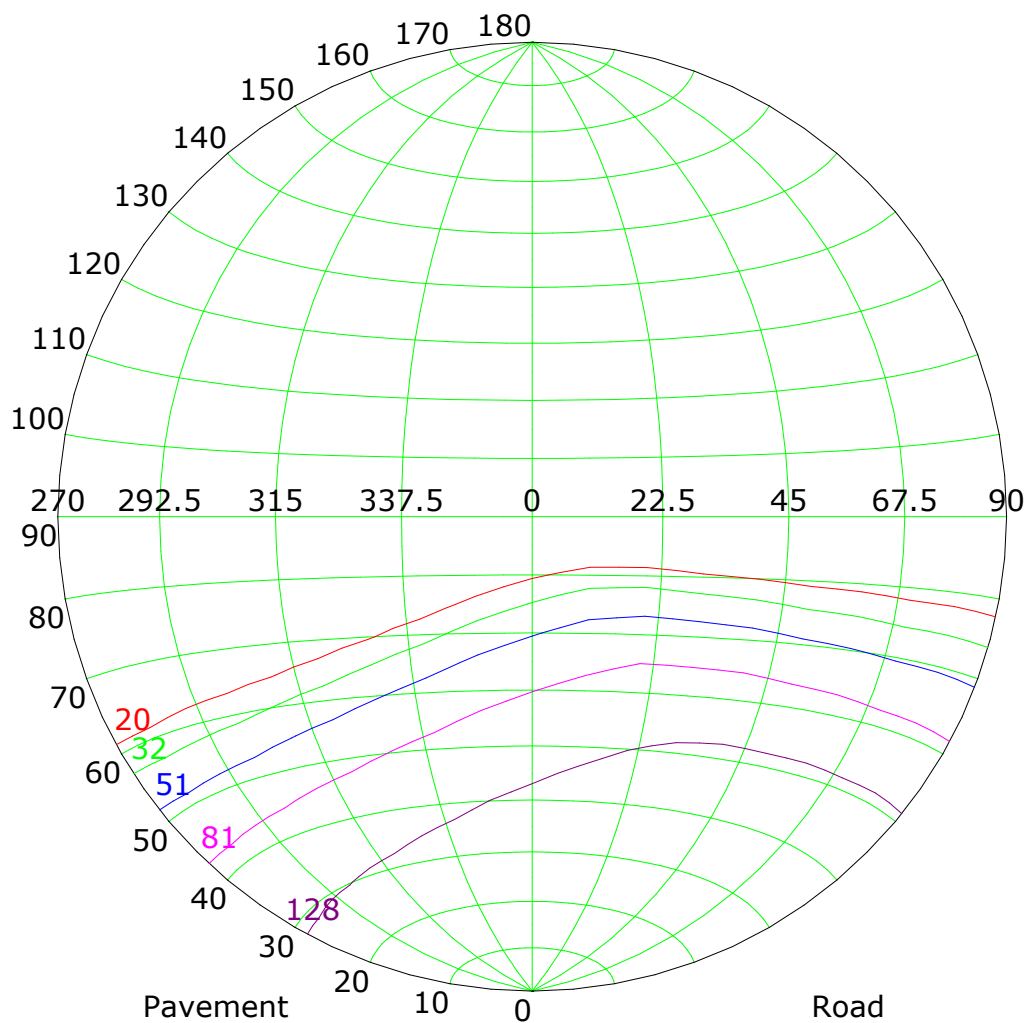
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

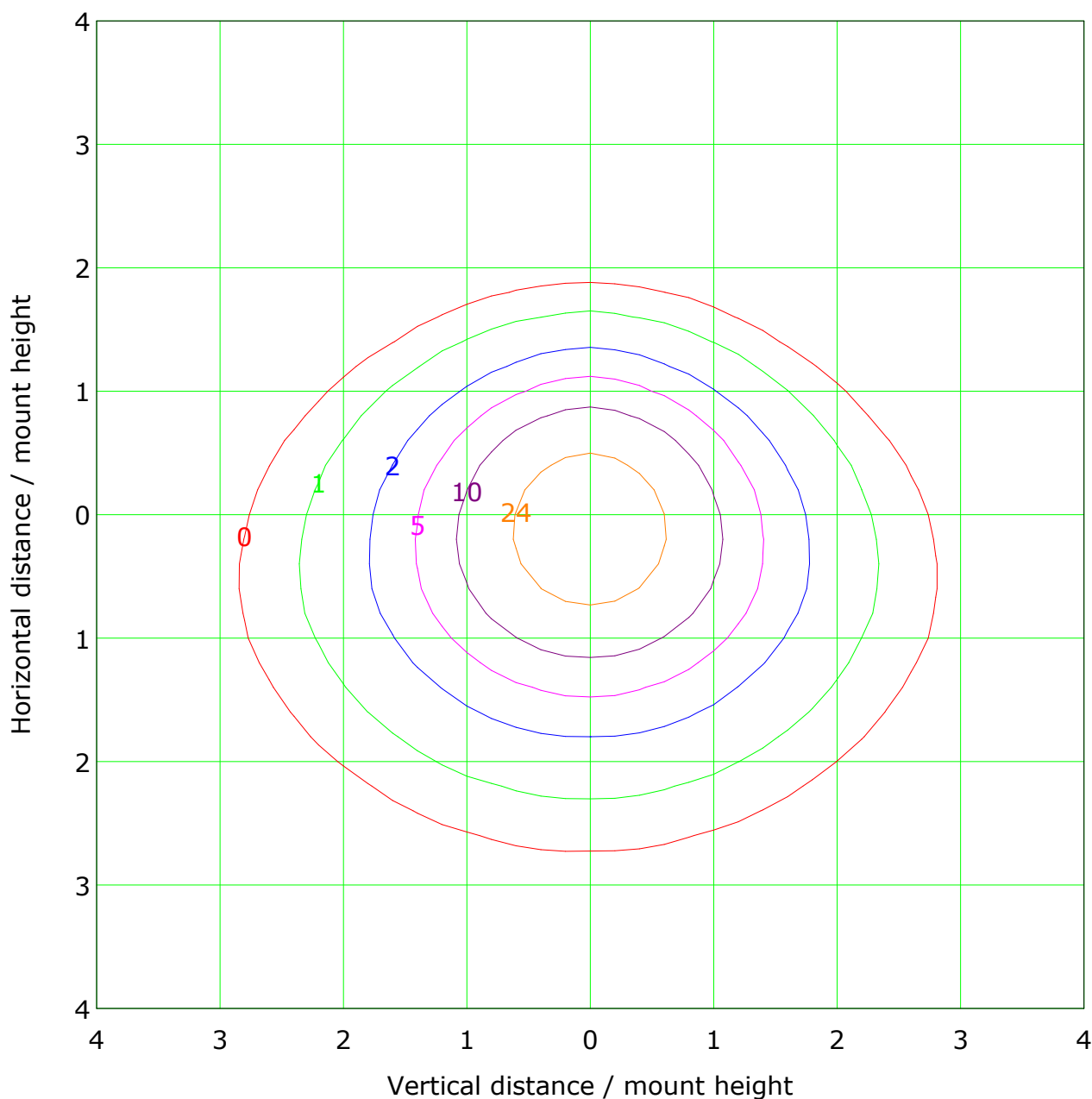
Isocandela (sphere)



Imax (100%): 203 cd

(10%):	20 cd	(16%):	32 cd
(25%):	51 cd	(40%):	81 cd
(63%):	128 cd	(100%):	203 cd

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 48.3 lx	
(1%):	0.5 lx	(2%):	1.0 lx
(5%):	2.4 lx	(10%):	4.8 lx
(20%):	9.7 lx	(50%):	24.2 lx
(100%):	48.3 lx		

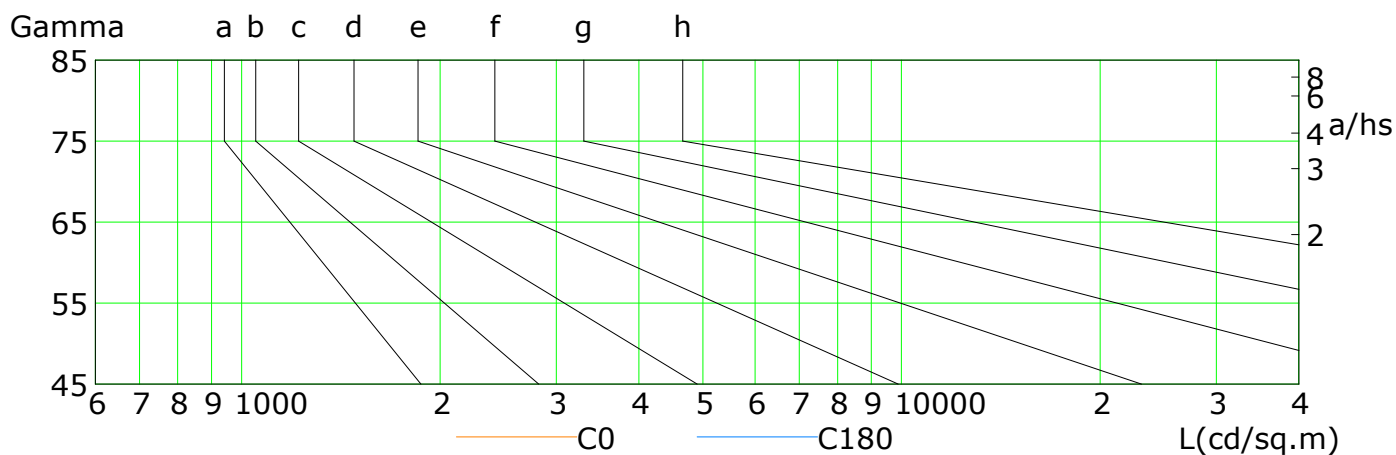
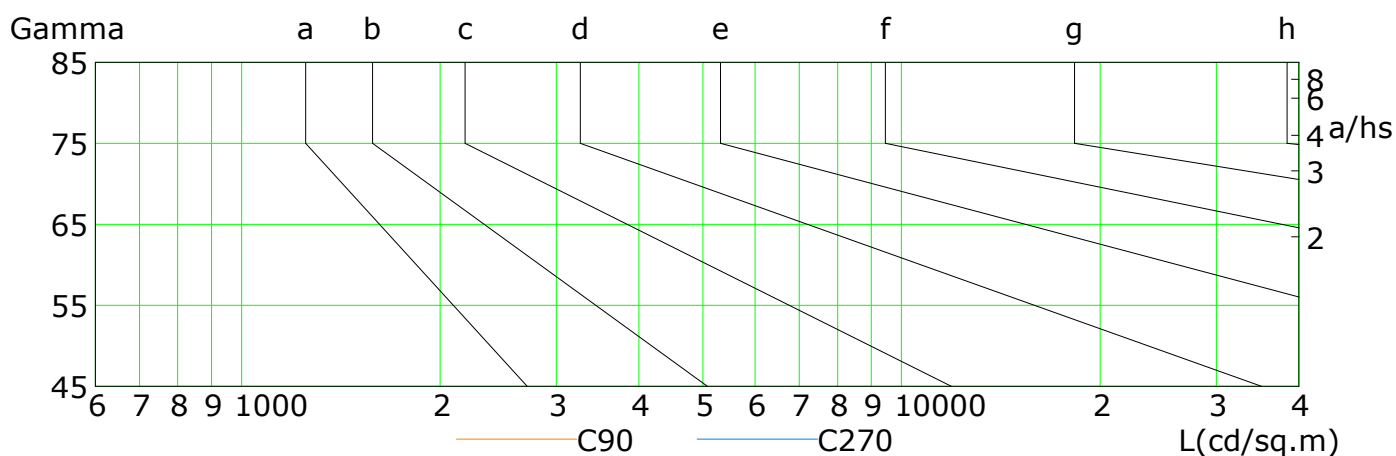
C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

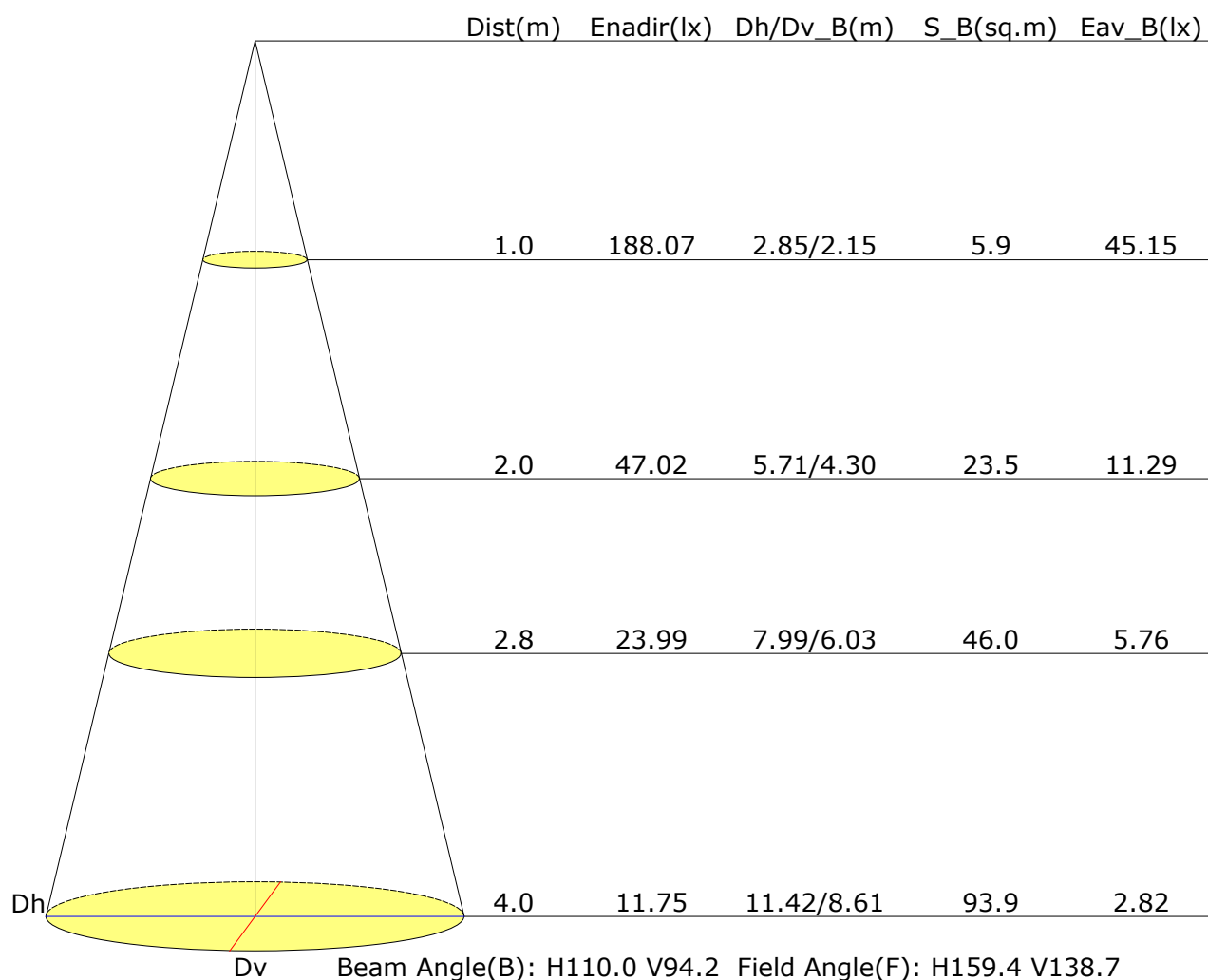


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	123	109	95	80	65	49	33	19	6
C90	153	133	111	89	67	46	29	14	2
C180	121	107	93	78	63	47	32	17	6
C270	74	57	40	23	12	7	5	3	1

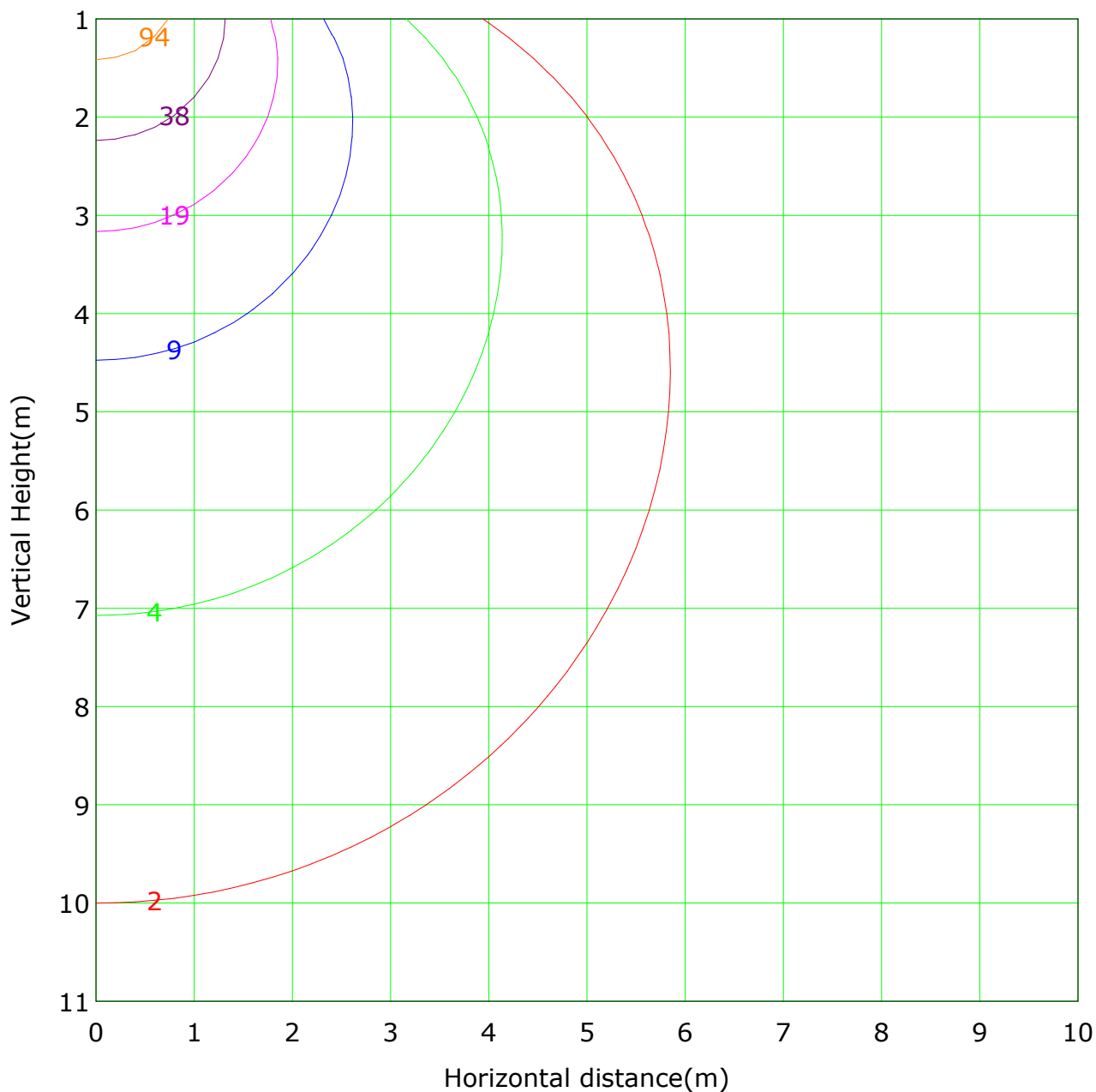
C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 188.1 lx

(1%): 1.9 lx	(2%): 3.8 lx
(5%): 9.4 lx	(10%): 18.8 lx
(20%): 37.6 lx	(50%): 94.0 lx
(100%): 188.1 lx	

C Plane (°):0.0-360.0: 10.0
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: