

Report No.:

Test Time: 04/10/2024 17:24

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-WL04-05+LLD-05-FK

Lamp Description: F52-40s-1208F2/14.4 1m Number of Lamps: 2

Lumens per Lamp: 1491

Voltage: 24.0 V

Current: 1.113 A

Power: 26.70 W

Power Factor: 1.000

Photometric Results

CIE Class: Semi-Indirect

Measurement Flux: 2285 lm

Downward Ratio: 23.18%

Total Rated Lamp Lumens: 2982.0 lm

Efficiency: 76.62%

Upward Ratio: 53.44%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 360.0, 352.6, 360.0, 360.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 360.0, 286.8, 267.4, 266.7

Luminaire Efficacy Rating (LER): 85.63

Central Intensity: 0.32 cd

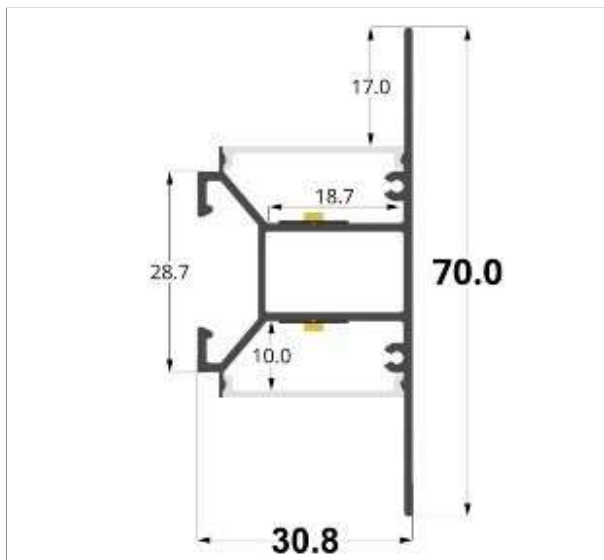
Max. Intensity: 536.61 cd

Pos of Max. Intensity: H90 V113

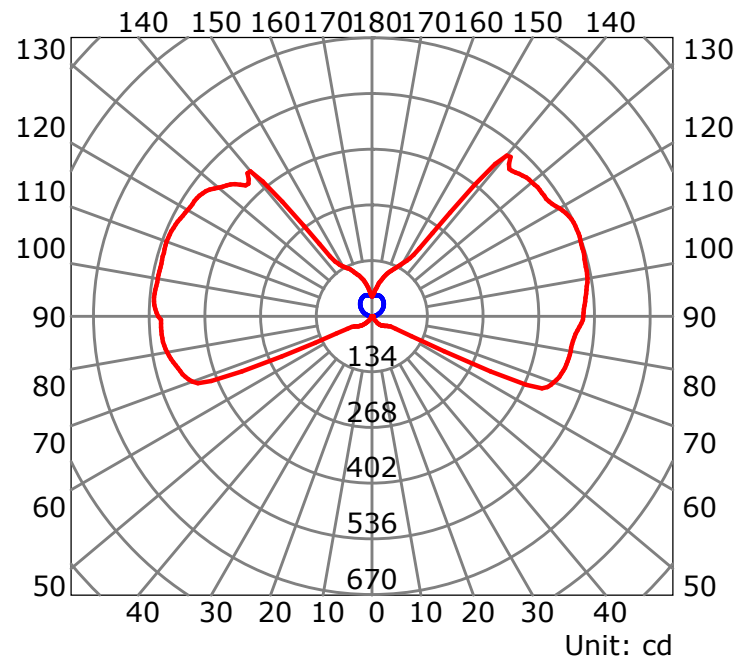
S/MH(C0/C180): 1.53

S/MH(C90/C270): -798.10

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

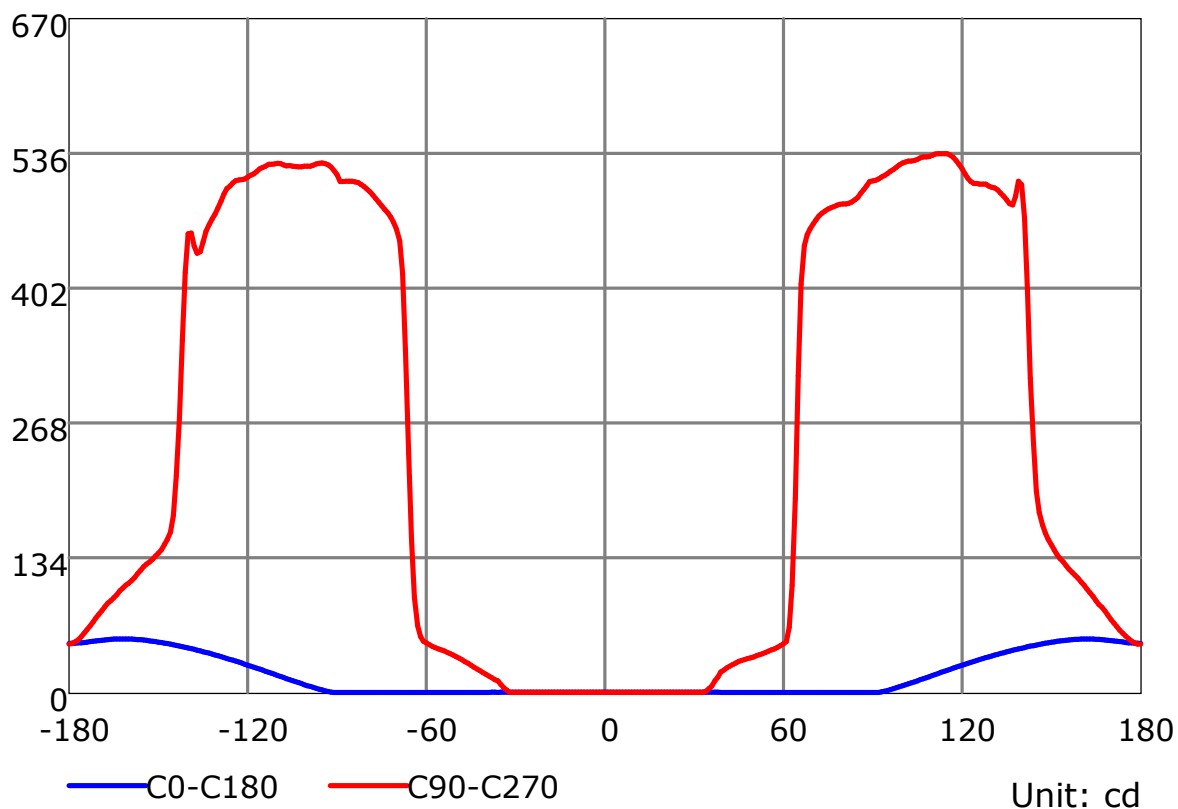
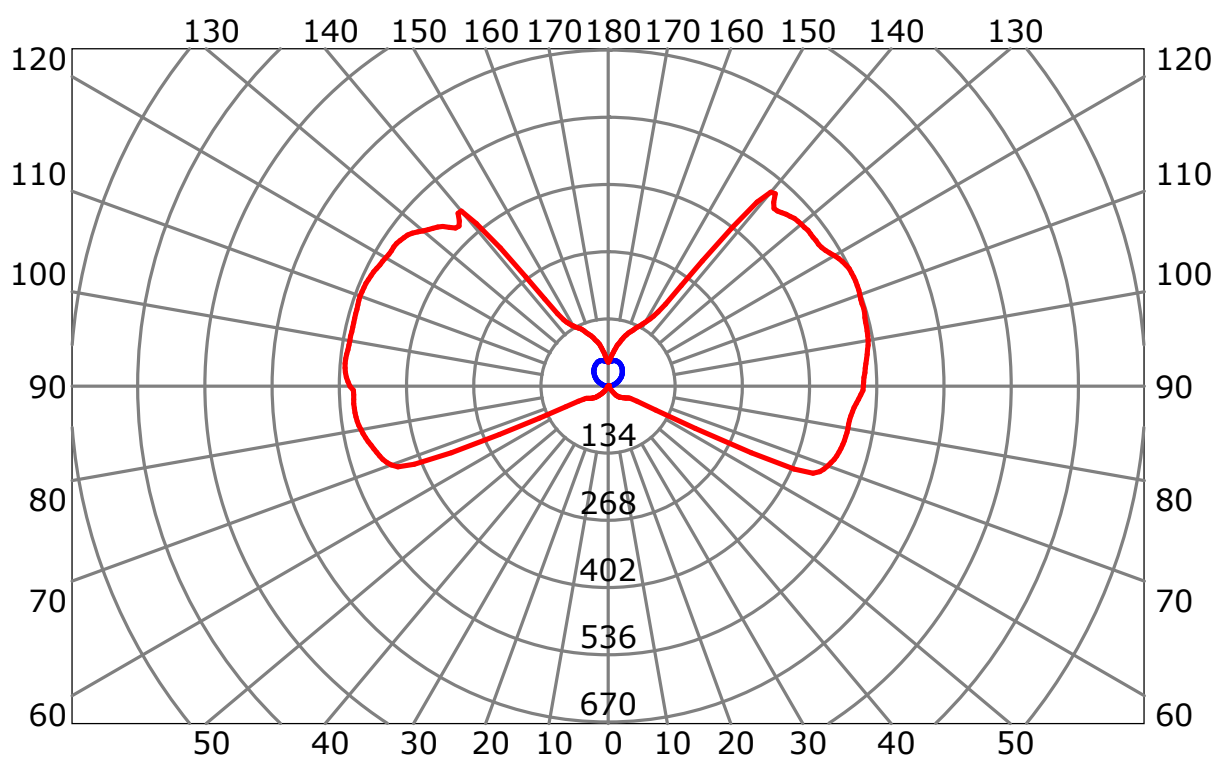
Test Device: GMP-1800B

Distance: 7.792 m

Humidity:

Inspector:

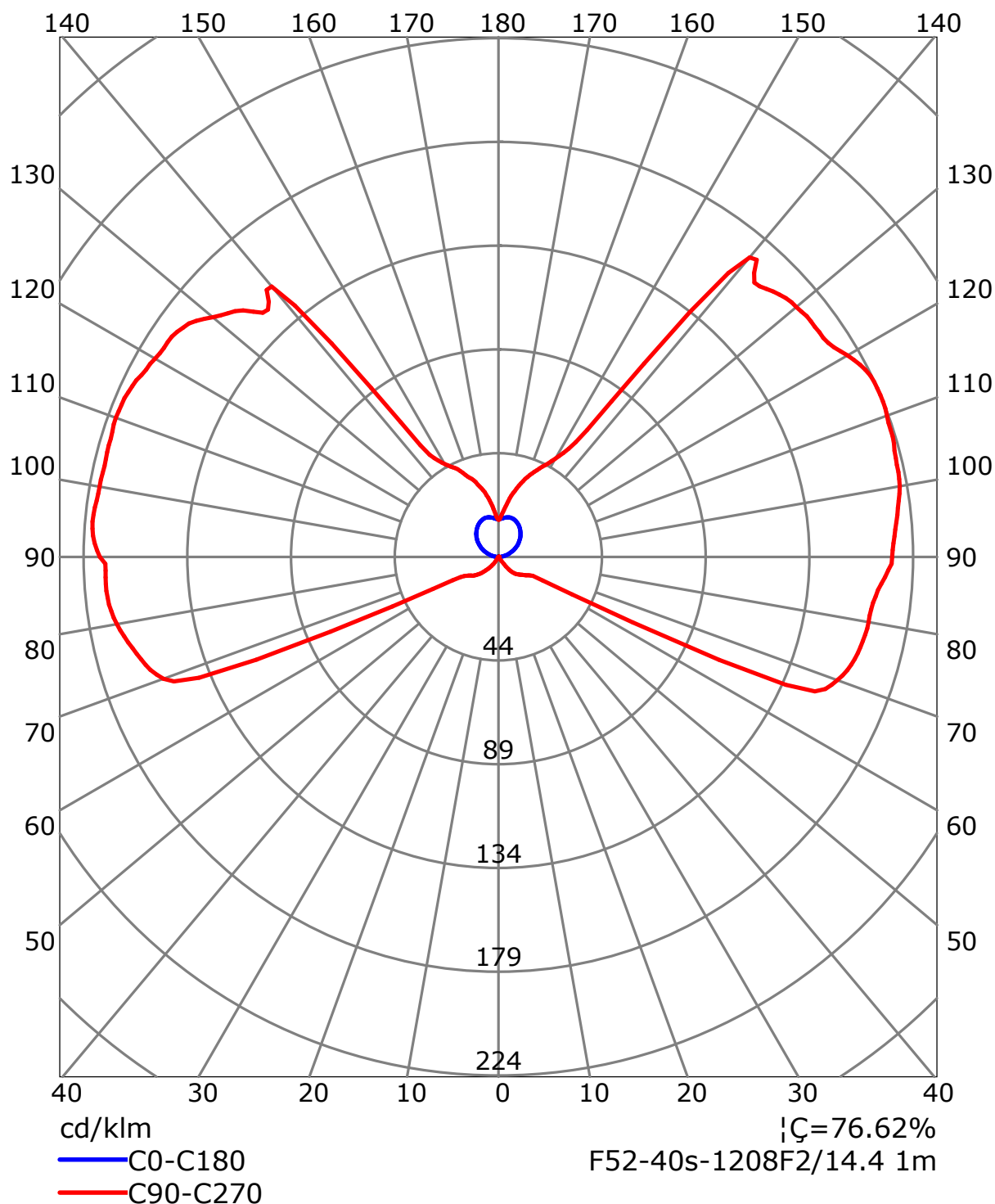
Luminous Intensity Distribution Curve



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: GMP-1800B
 Distance: 7.792 m
 Humidity:
 Inspector:

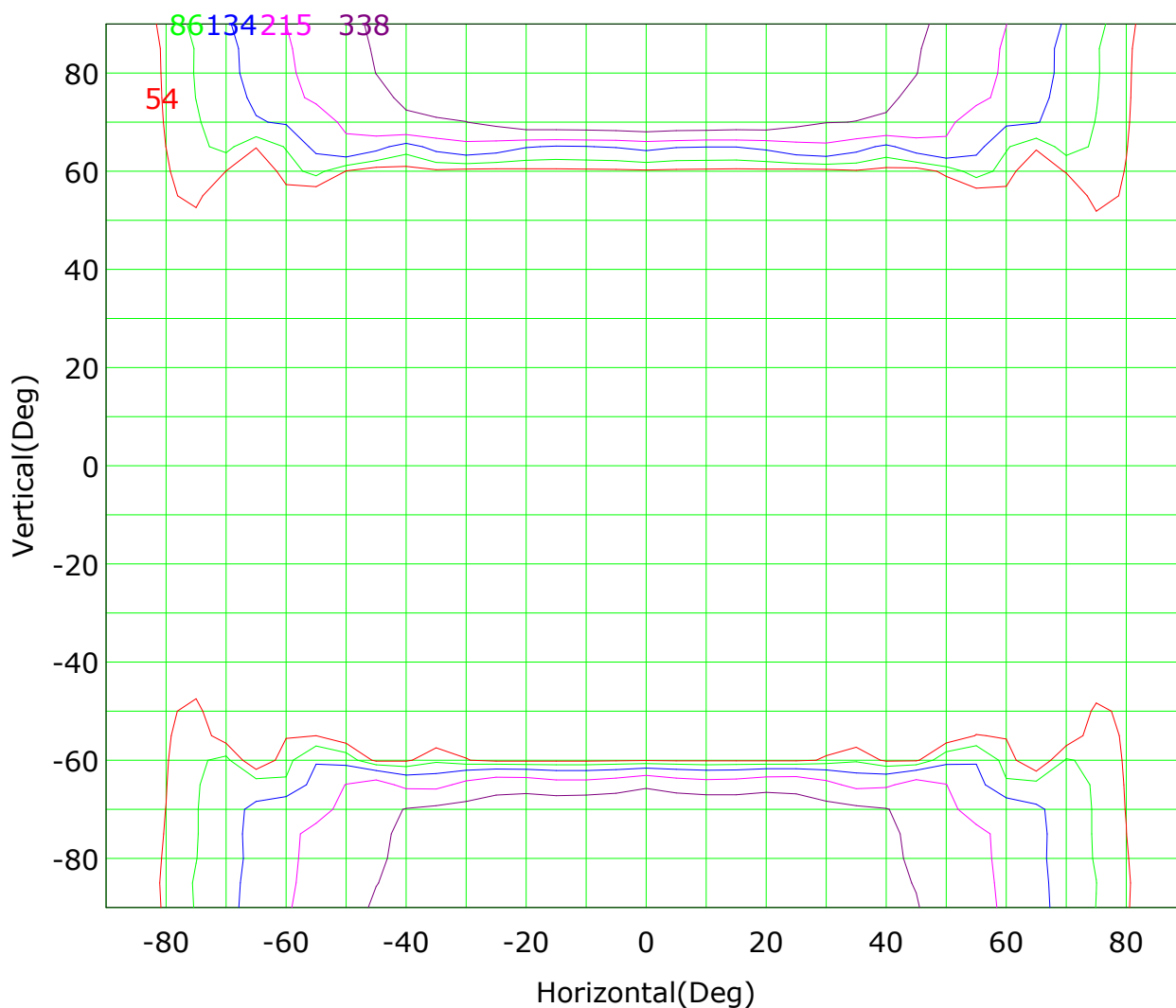
Luminous Intensity Distribution Curve(cd/klm)



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: GMP-1800B
Distance: 7.792 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 537 cd

(10%): 54 cd	(16%): 86 cd
(25%): 134 cd	(40%): 215 cd
(63%): 338 cd	(100%): 537 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

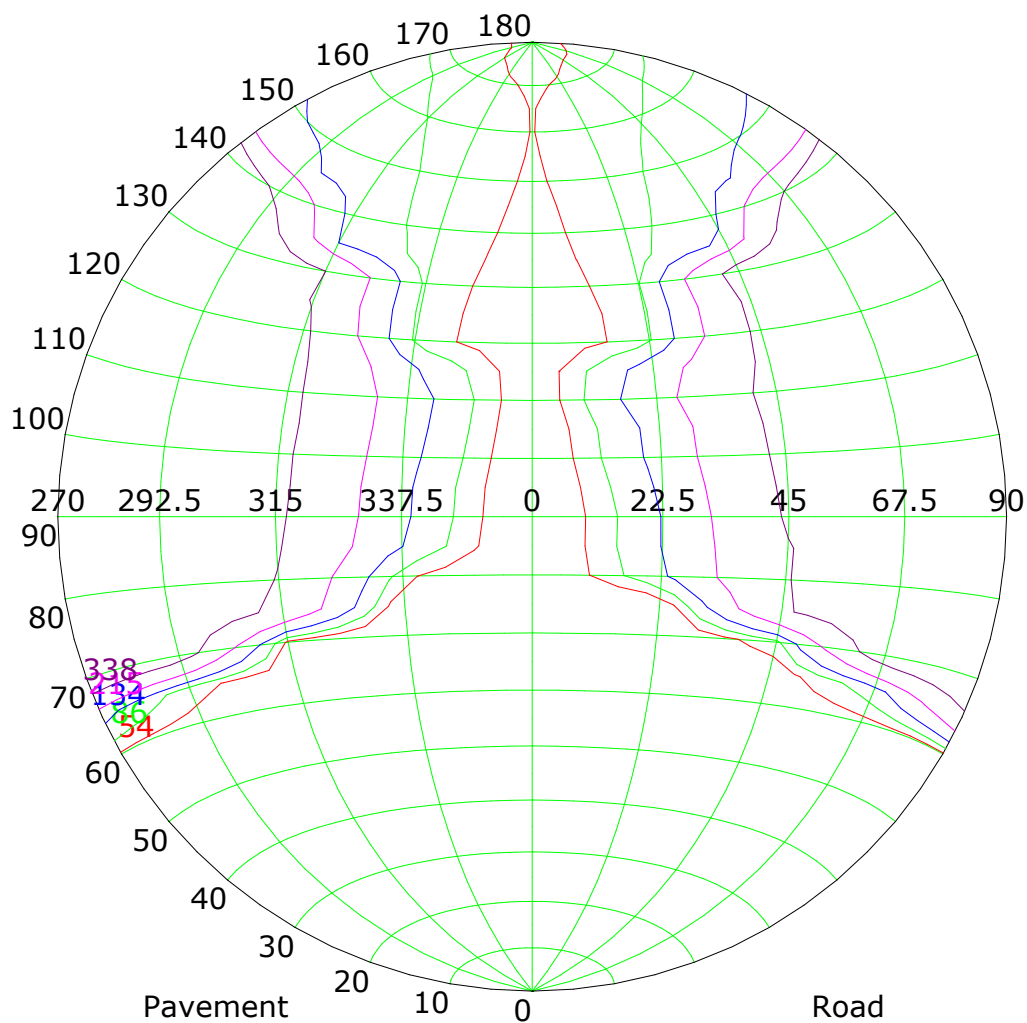
Test Device: GMP-1800B

Distance: 7.792 m

Humidity:

Inspector:

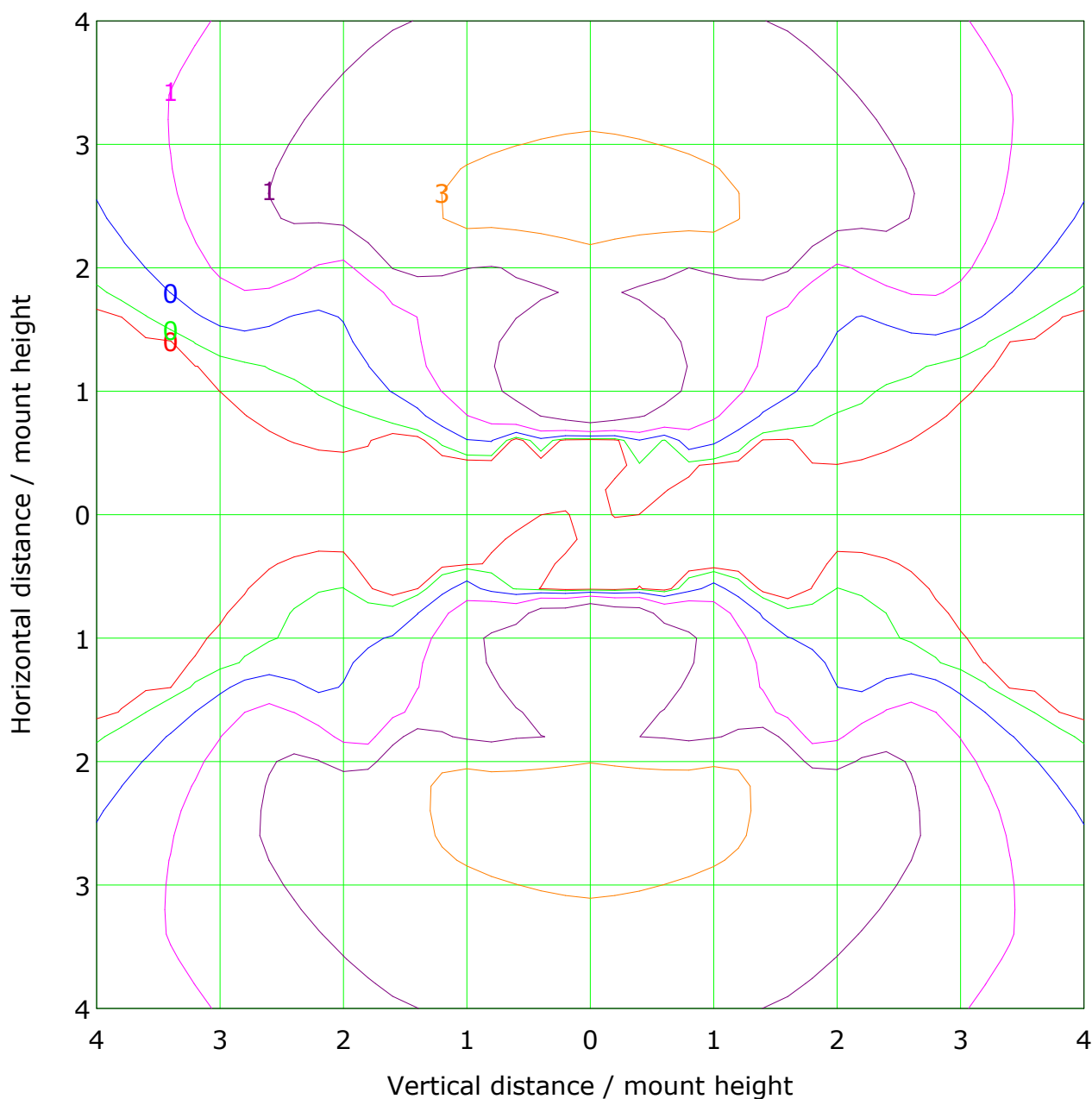
Isocandela (sphere)



Imax (100%): 537 cd

(10%):	54 cd	(16%):	86 cd
(25%):	134 cd	(40%):	215 cd
(63%):	338 cd	(100%):	537 cd

IsoLux Plot



Mounting Height: 2.0m Max Lux(100%): 6.8 lx

(1%): 0.1 lx	(2%): 0.1 lx
(5%): 0.3 lx	(10%): 0.7 lx
(20%): 1.4 lx	(50%): 3.4 lx
(100%): 6.8 lx	

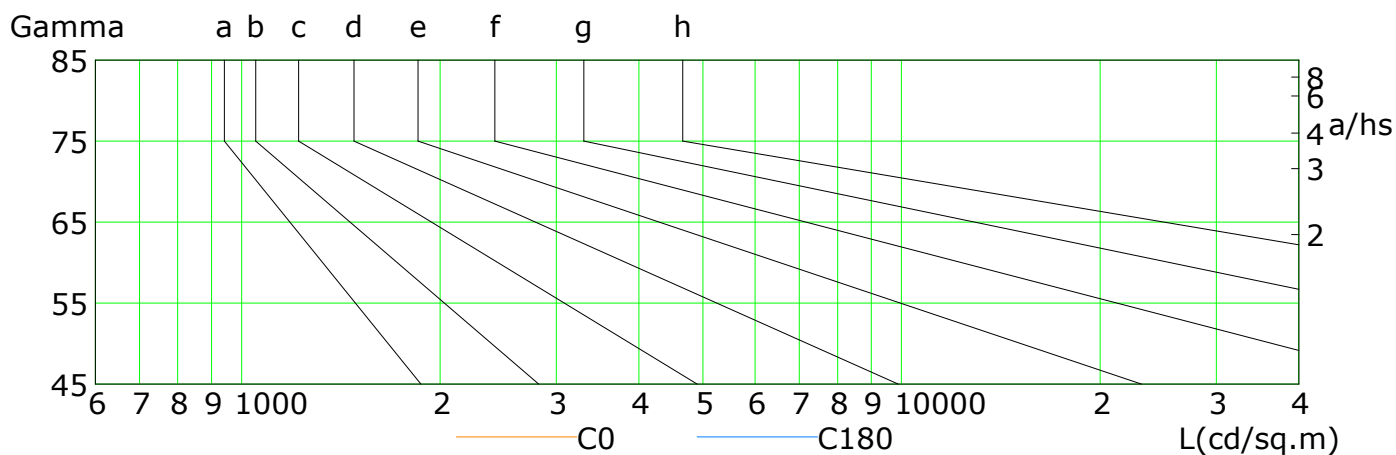
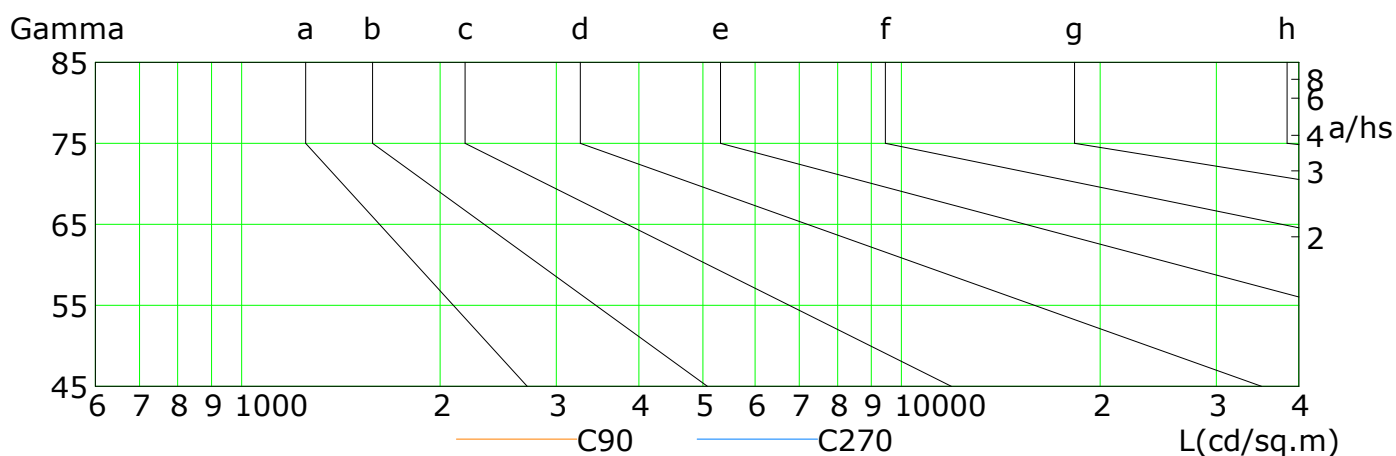
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GMP-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

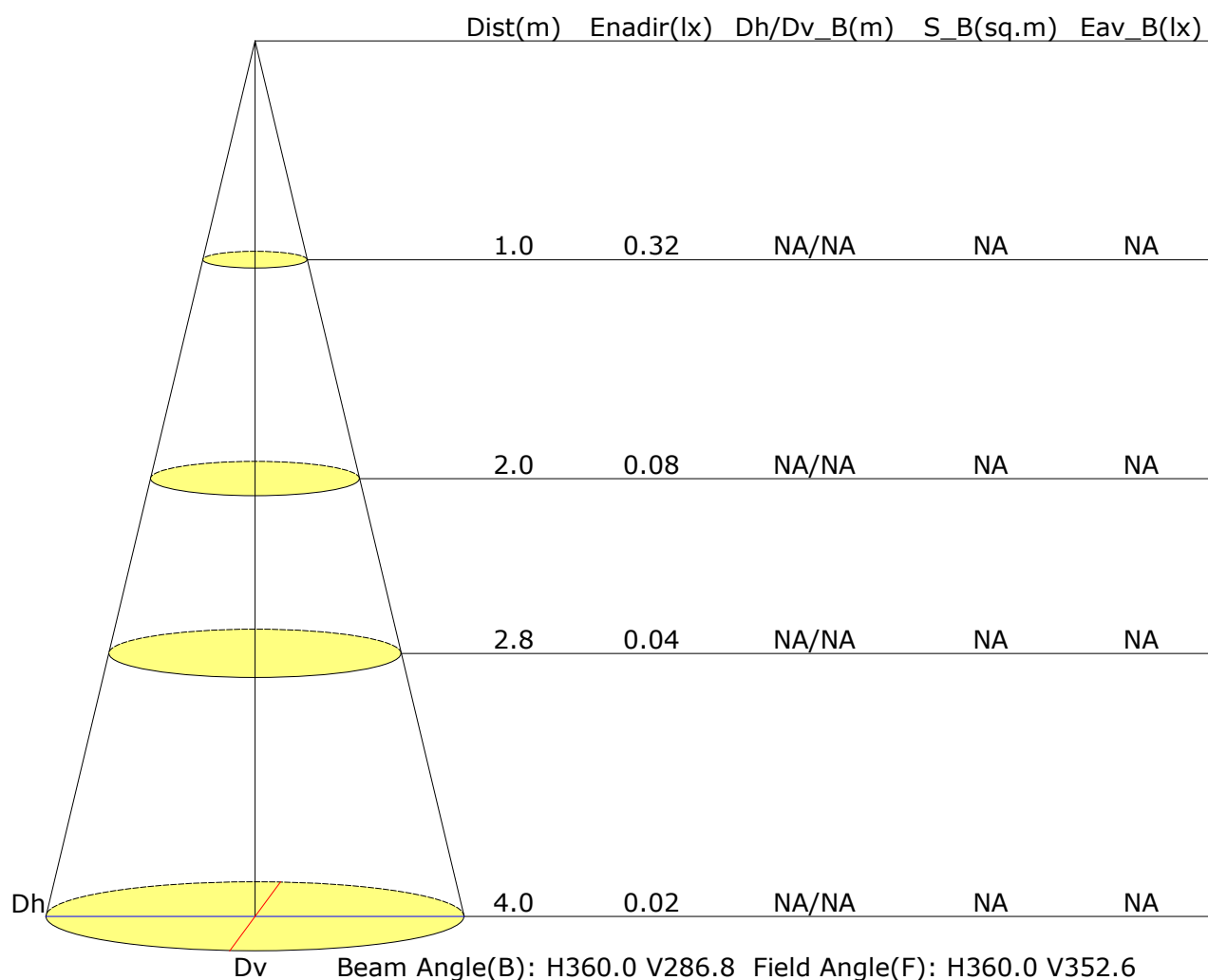


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	0	0	0	0	0	0	0	0	0
C90	31	36	41	48	315	467	481	486	493
C180	0	0	0	0	0	0	0	0	0
C270	27	36	43	49	152	461	484	501	509

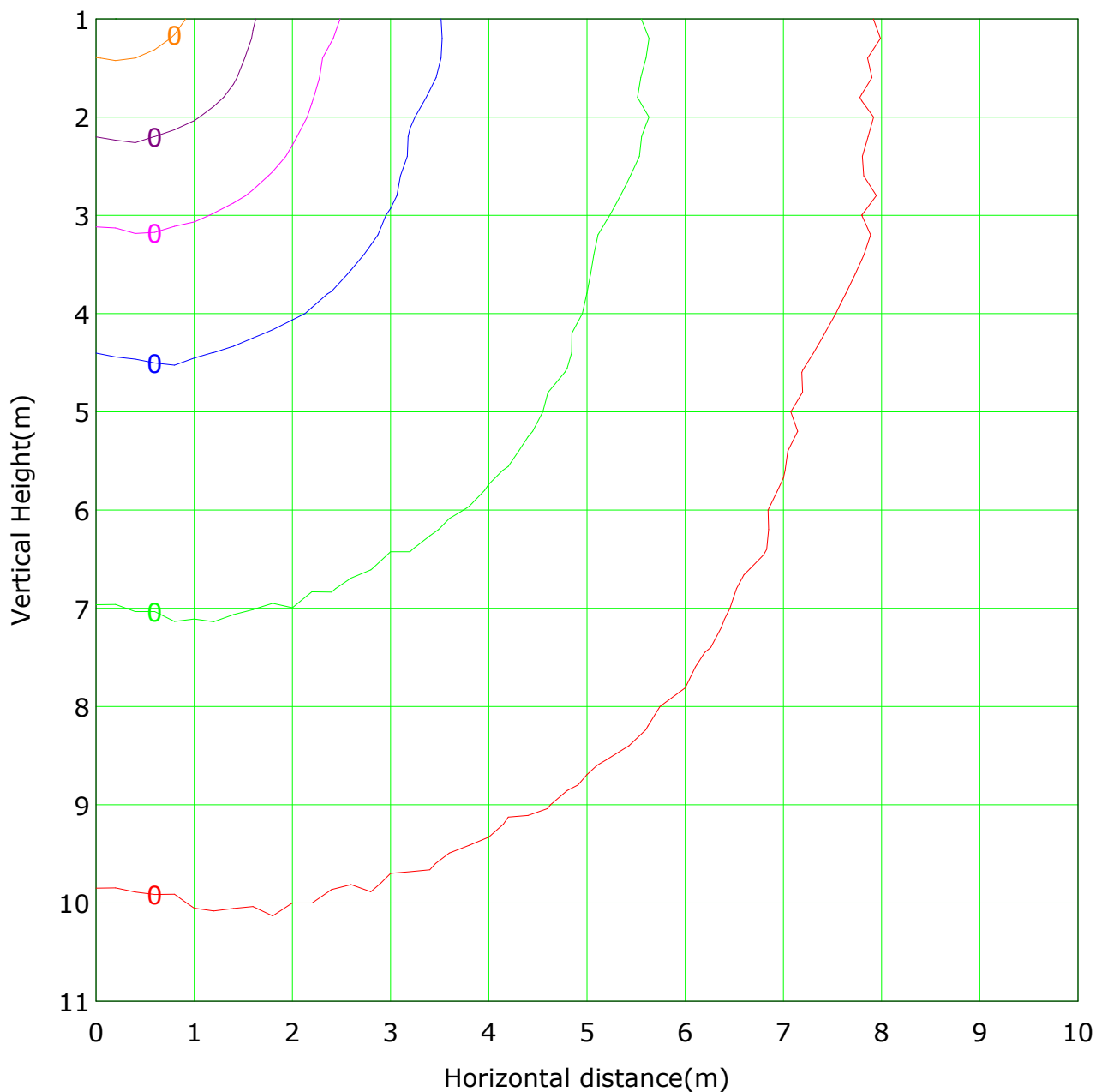
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 0.3 lx
(1%): 0.0 lx	(2%): 0.0 lx	
(5%): 0.0 lx	(10%): 0.0 lx	
(20%): 0.1 lx	(50%): 0.2 lx	
(100%): 0.3 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: GMP-1800B
Distance: 7.792 m
Humidity:
Inspector:

Report No.:

Test Time: 04/10/2024 12:17

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-WL04-05+LLD-05-FM

Lamp Description: F52-40s-1208F2/14.4 1m Number of Lamps: 2

Lumens per Lamp: 1491

Voltage: 24.0 V

Current: 1.114 A

Power: 26.74 W

Power Factor: 1.000

Photometric Results

CIE Class: Semi-Indirect

Measurement Flux: 1843 lm

Downward Ratio: 19.14%

Total Rated Lamp Lumens: 2982.0 lm

Efficiency: 61.80%

Upward Ratio: 42.66%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 360.0, 360.0, 360.0, 360.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 360.0, 316.0, 321.8, 321.5

Luminaire Efficacy Rating (LER): 68.97

Central Intensity: 0.44 cd

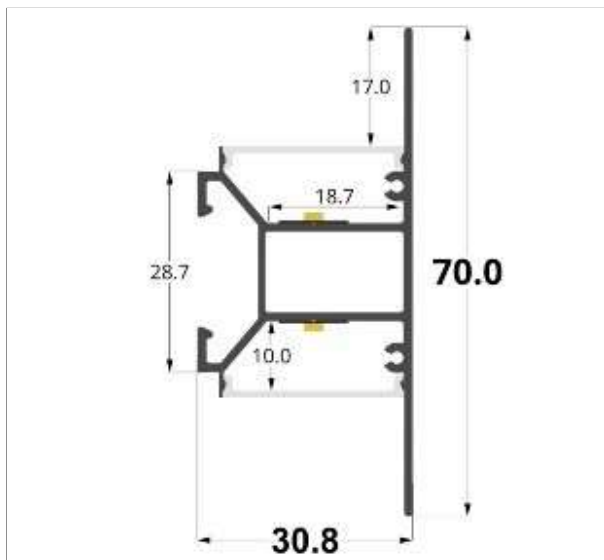
Max. Intensity: 375.43 cd

Pos of Max. Intensity: H90 V102

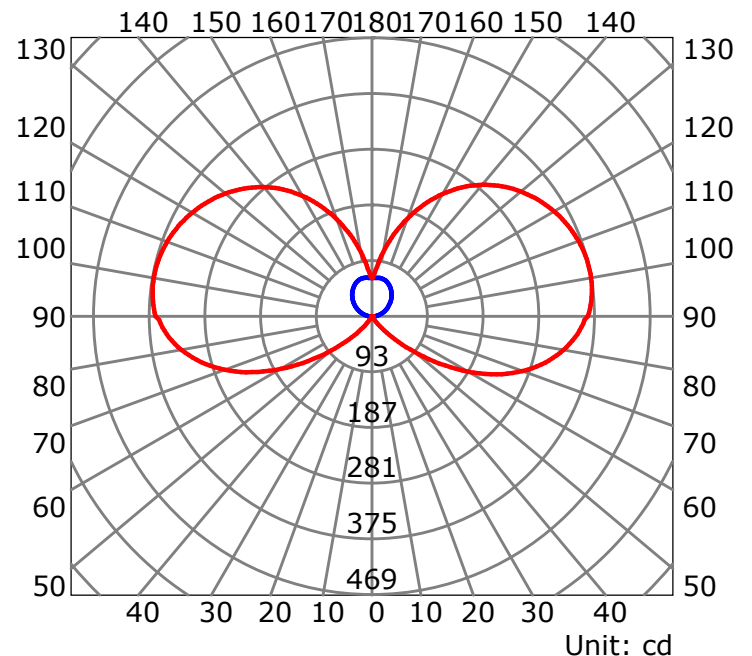
S/MH(C0/C180): 1.49

S/MH(C90/C270): 23.50

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

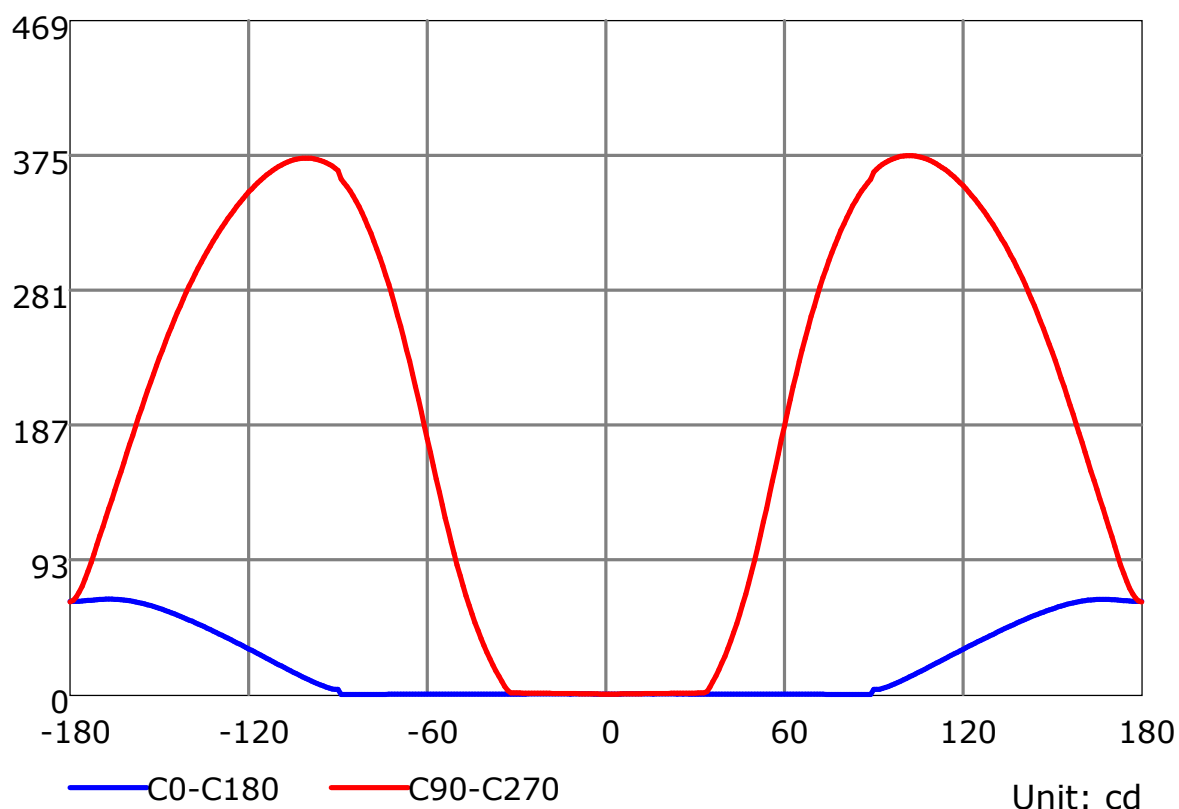
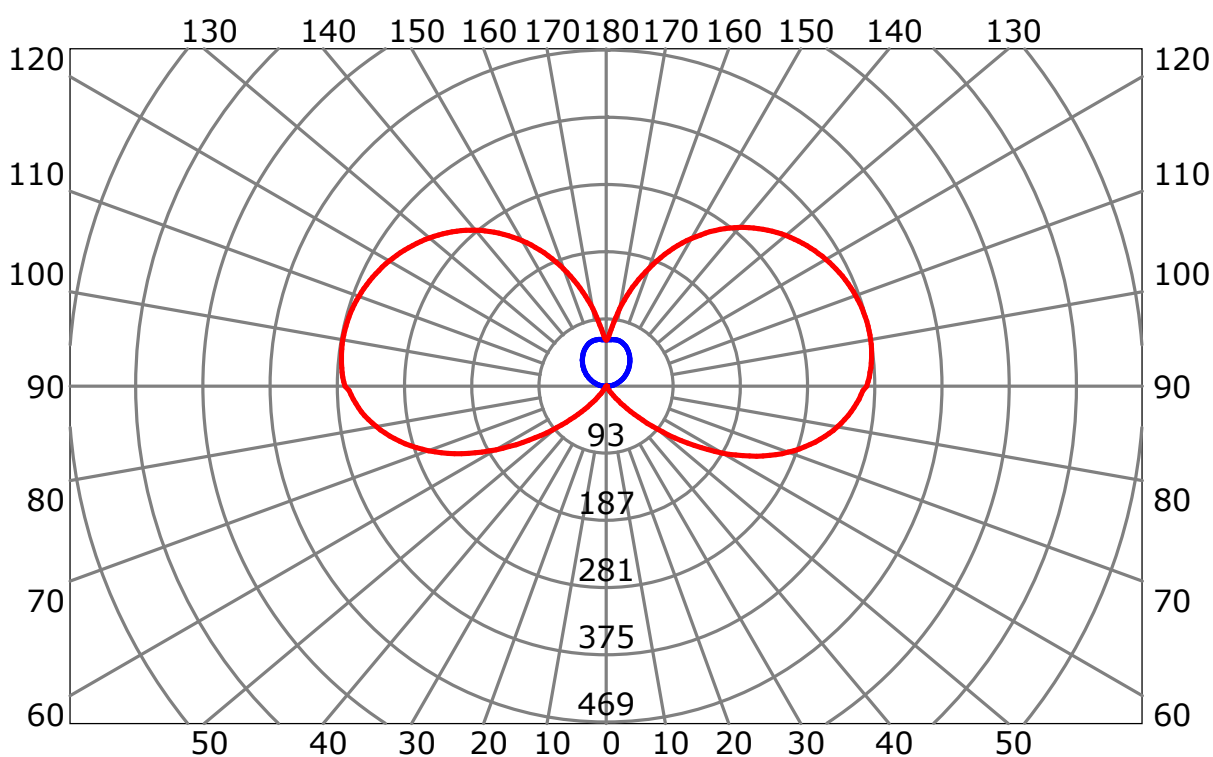
Test Device: GMP-1800B

Distance: 7.792 m

Humidity:

Inspector:

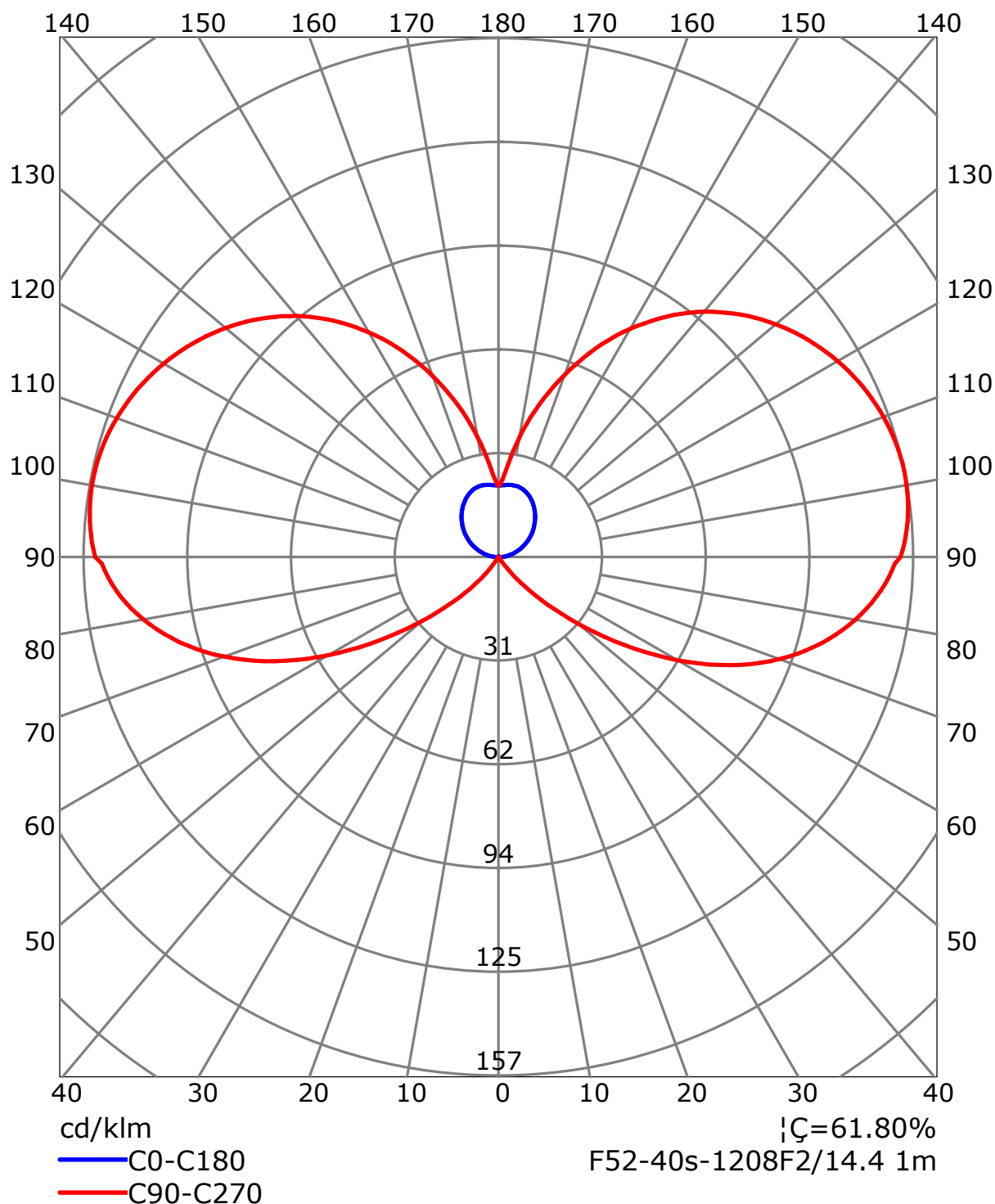
Luminous Intensity Distribution Curve



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: GMP-1800B
Distance: 7.792 m
Humidity:
Inspector:

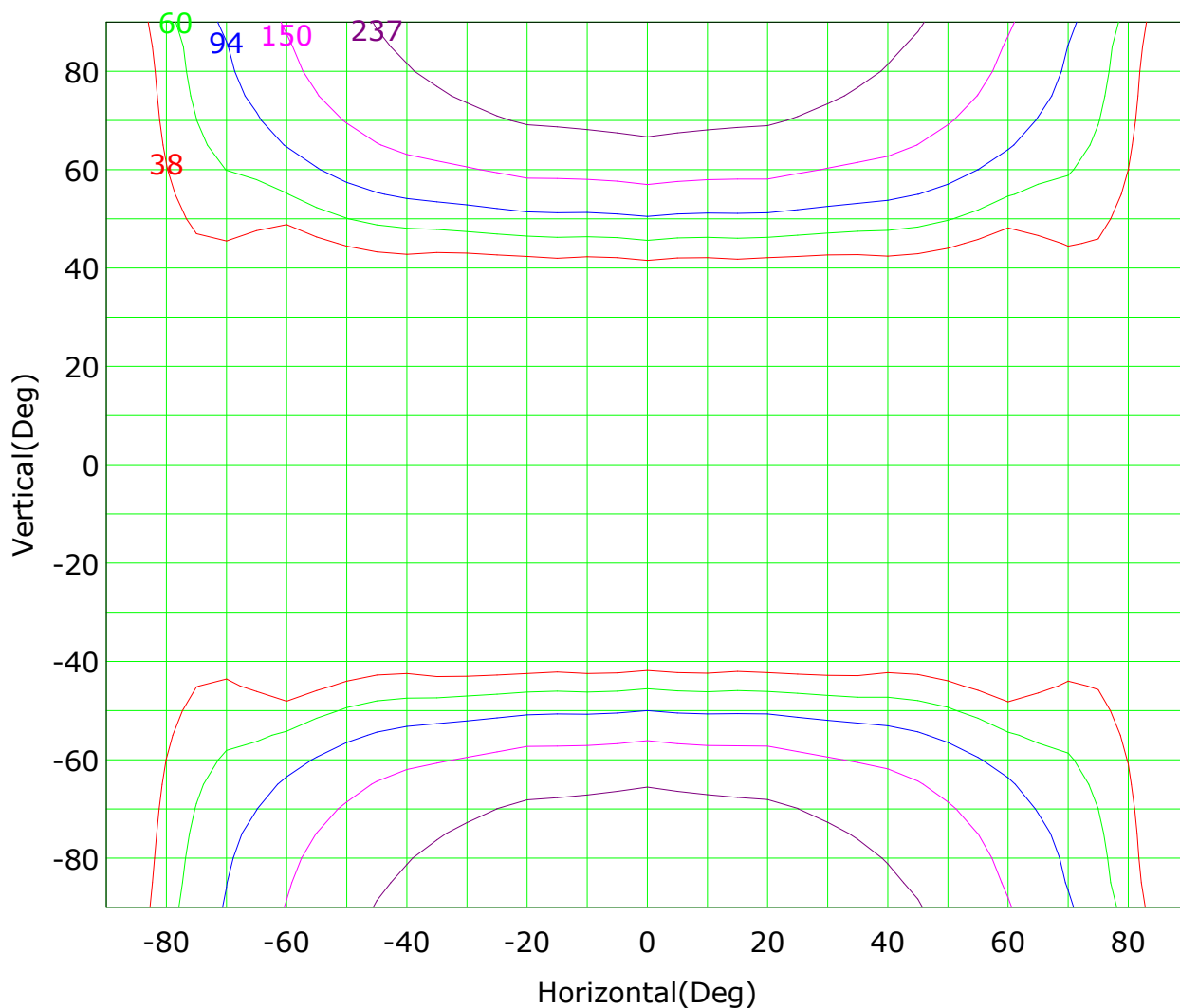
Luminous Intensity Distribution Curve(cd/klm)



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: GMP-1800B
 Distance: 7.792 m
 Humidity:
 Inspector:

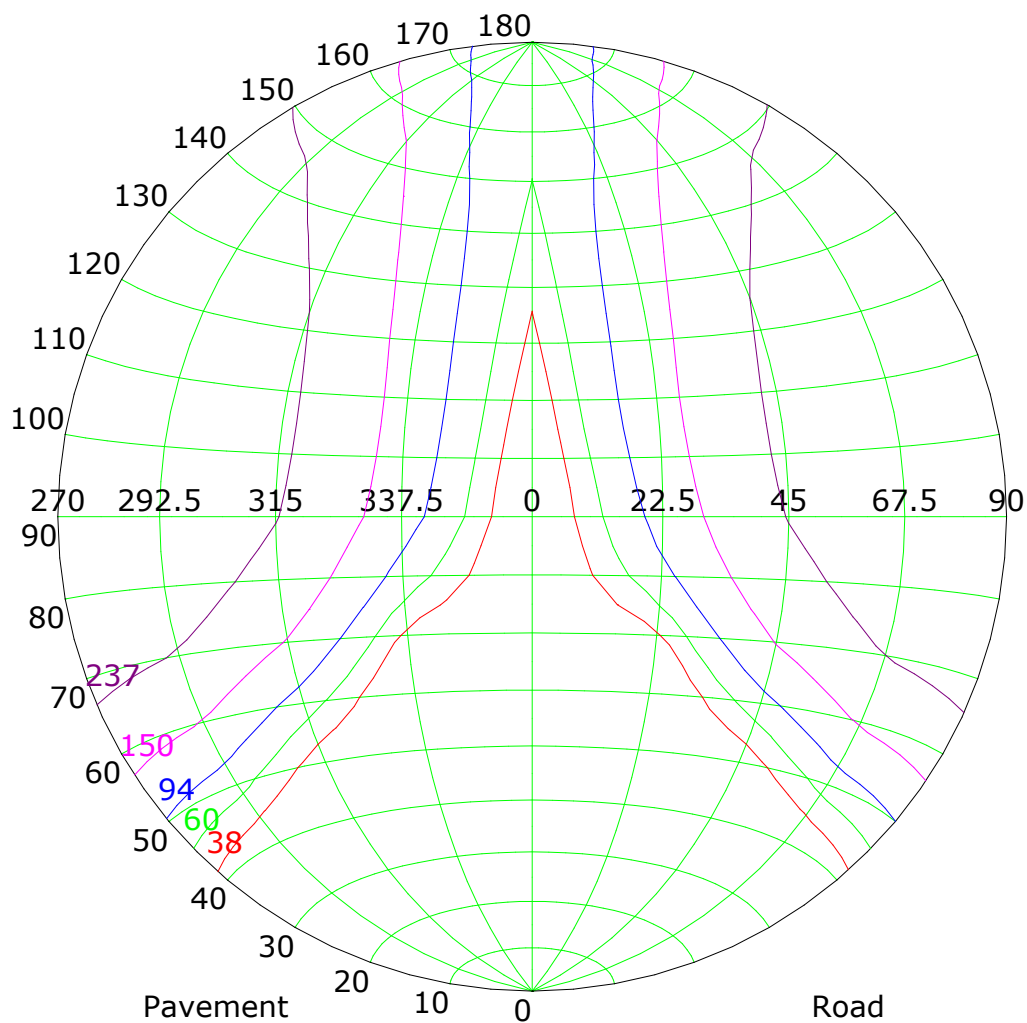
Isocandela (rectangle)



Imax (100%): 375 cd

(10%): 38 cd	(16%): 60 cd
(25%): 94 cd	(40%): 150 cd
(63%): 237 cd	(100%): 375 cd

Isocandela (sphere)



Imax (100%): 375 cd

(10%): 38 cd	(16%): 60 cd
(25%): 94 cd	(40%): 150 cd
(63%): 237 cd	(100%): 375 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

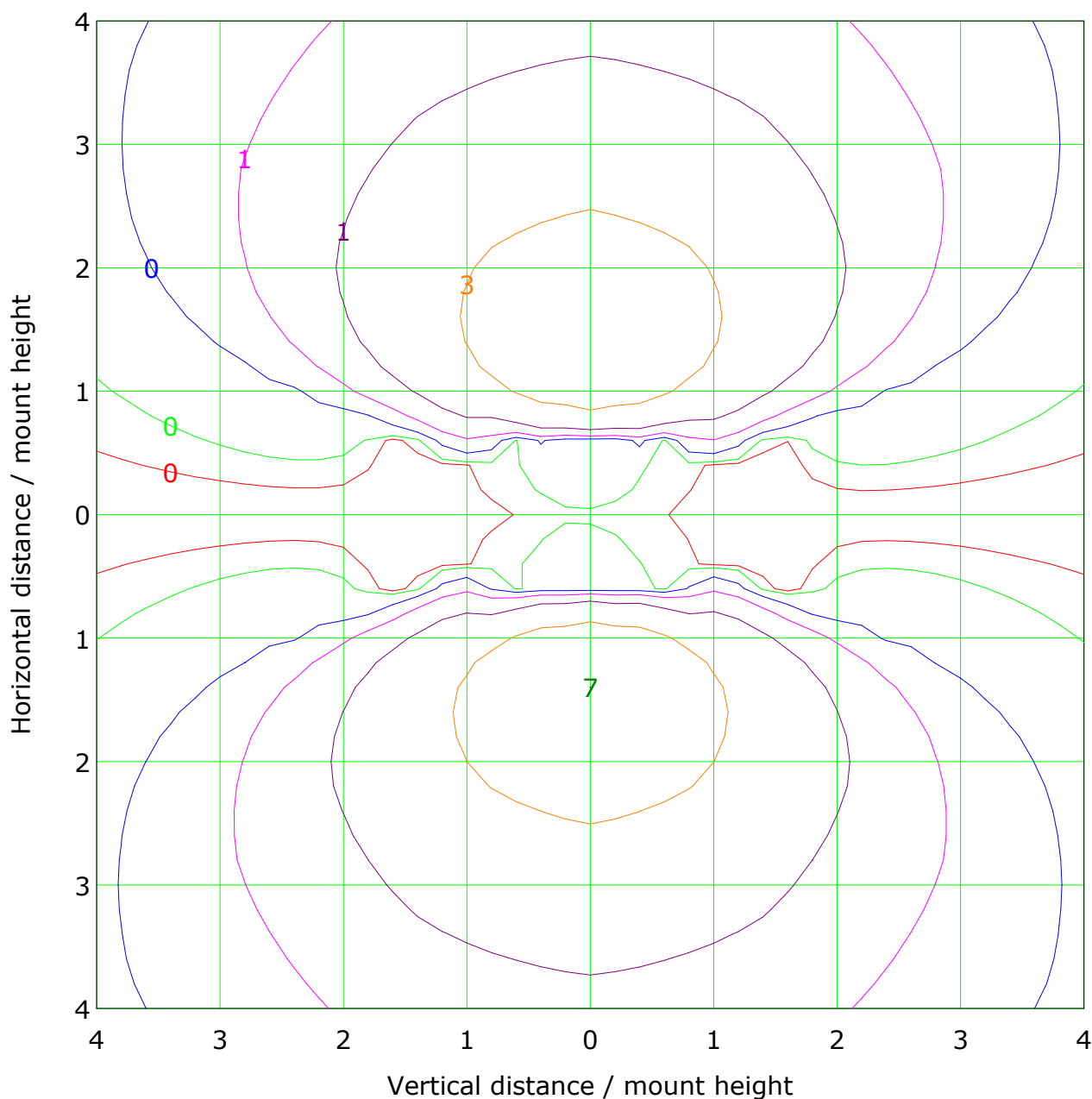
Test Device: GMP-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m Max Lux(100%): 6.6 lx

(1%): 0.1 lx	(2%): 0.1 lx
(5%): 0.3 lx	(10%): 0.7 lx
(20%): 1.3 lx	(50%): 3.3 lx
(100%): 6.6 lx	

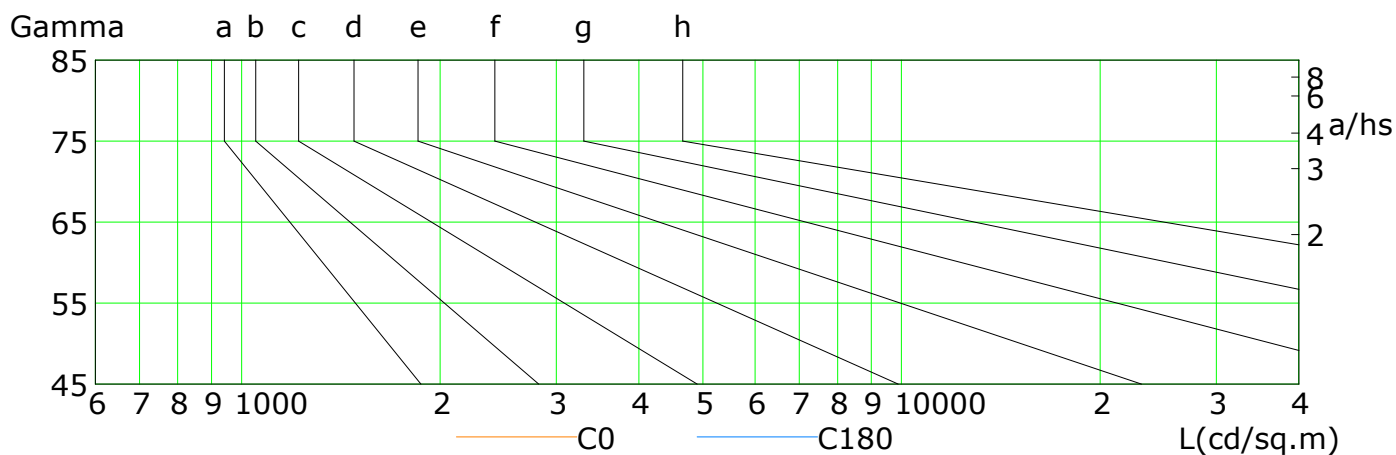
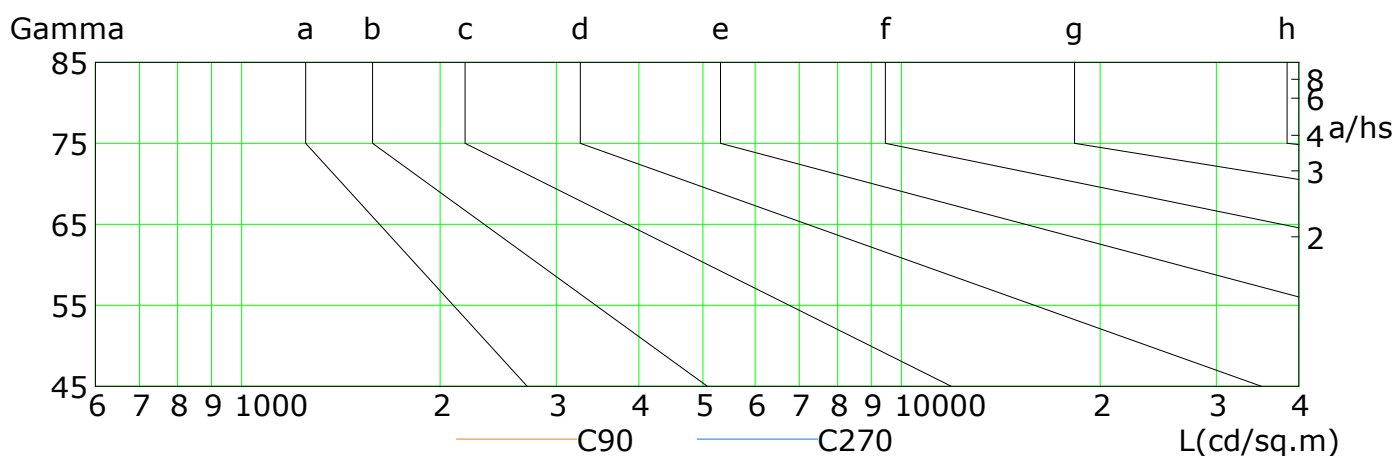
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GMP-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

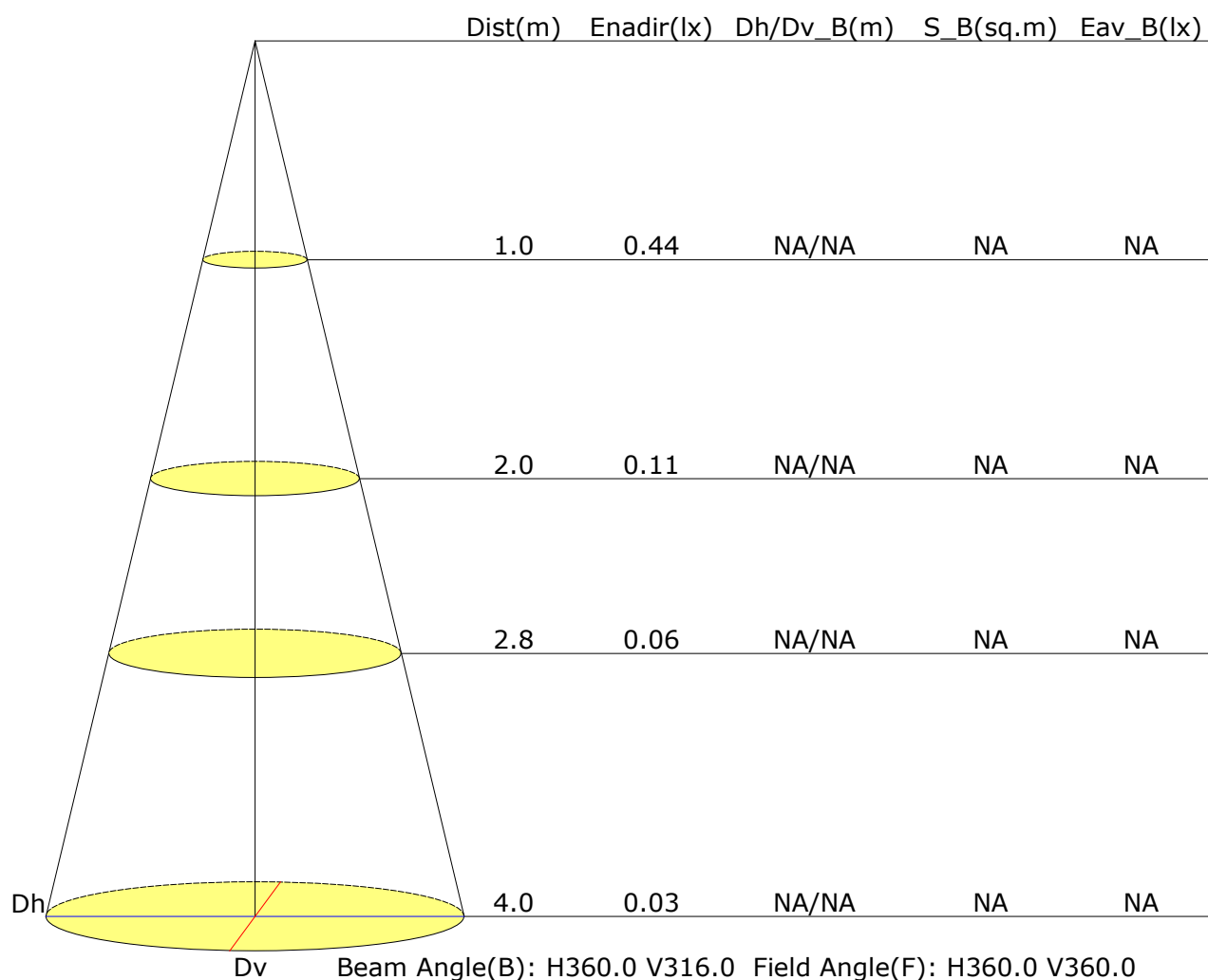


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	0	0	0	0	0	0	0	0	0
C90	56	94	139	187	232	270	302	328	348
C180	0	0	0	0	0	0	0	0	0
C270	56	90	132	178	223	264	299	326	347

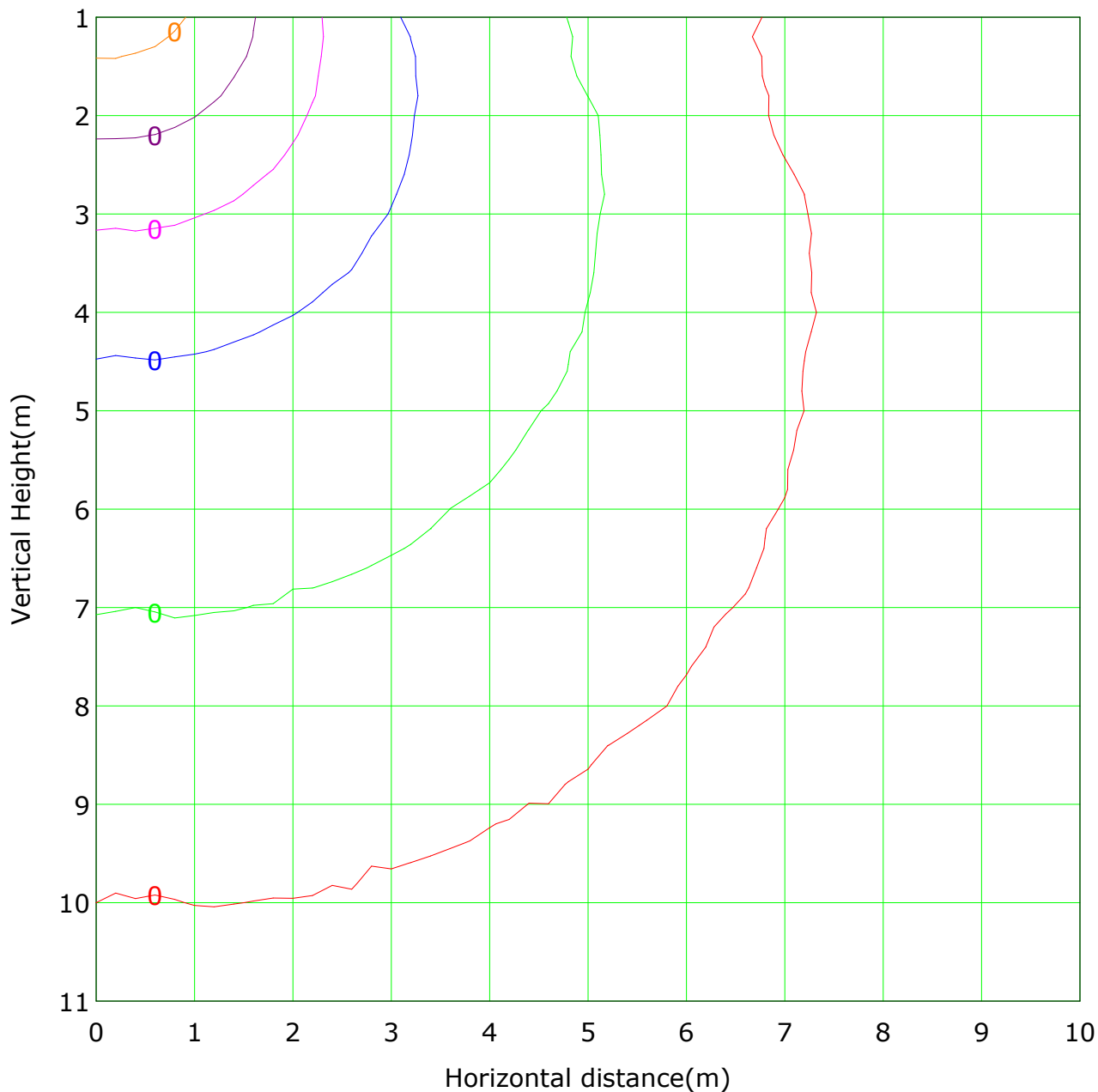
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 0.4 lx
(1%): 0.0 lx	(2%): 0.0 lx	
(5%): 0.0 lx	(10%): 0.0 lx	
(20%): 0.1 lx	(50%): 0.2 lx	
(100%): 0.4 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: GMP-1800B
Distance: 7.792 m
Humidity:
Inspector: