

Report No.:

Test Time: 15/04/2025 17:55

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-WL05-05+LLD-05-FK

Lamp Description: F52-40s-120DF2/14.4 1mt

Number of Lamps: 1

Voltage: 24.0 V

Power: 13.26 W

Lumens per Lamp: 1491

Current: 0.553 A

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 1183.8 lm

Downward Ratio: 79.40%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 138.6, 153.2, 129.0, 129.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 85.3, 111.4, 102.7, 102.2

Luminaire Efficacy Rating (LER): 89.33

Max. Intensity: 510.05 cd

S/MH(C0/C180): 1.41

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 79.40%

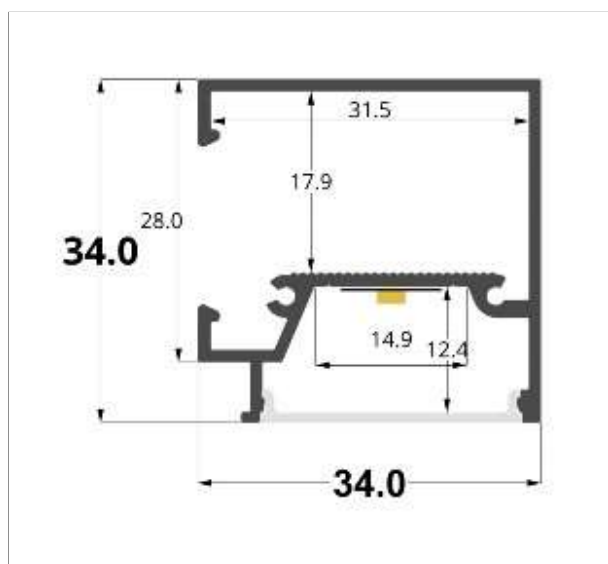
Upward Ratio: 0.00%

Central Intensity: 496.48 cd

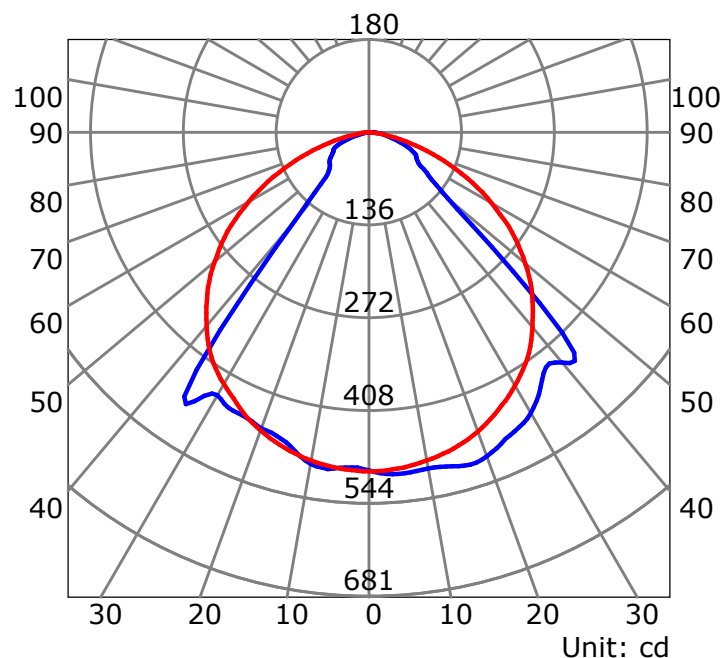
Pos of Max. Intensity: H0 V17

S/MH(C90/C270): 1.28

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

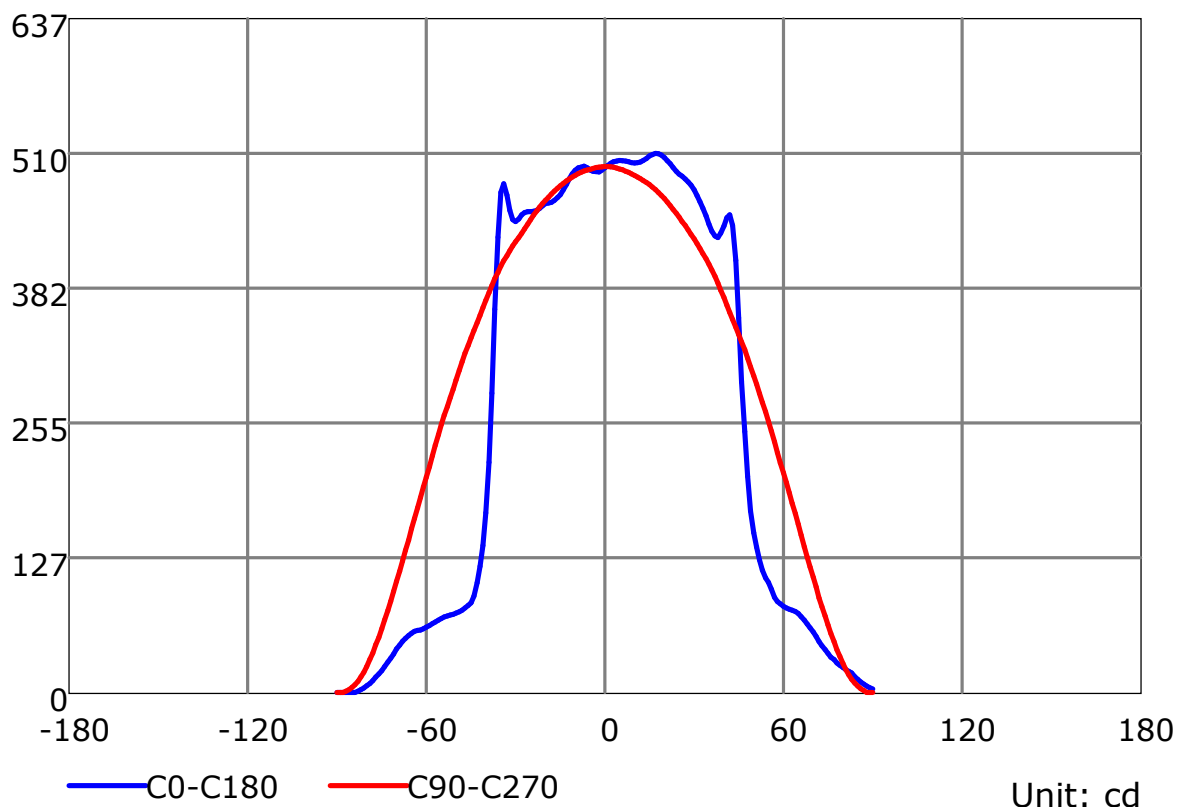
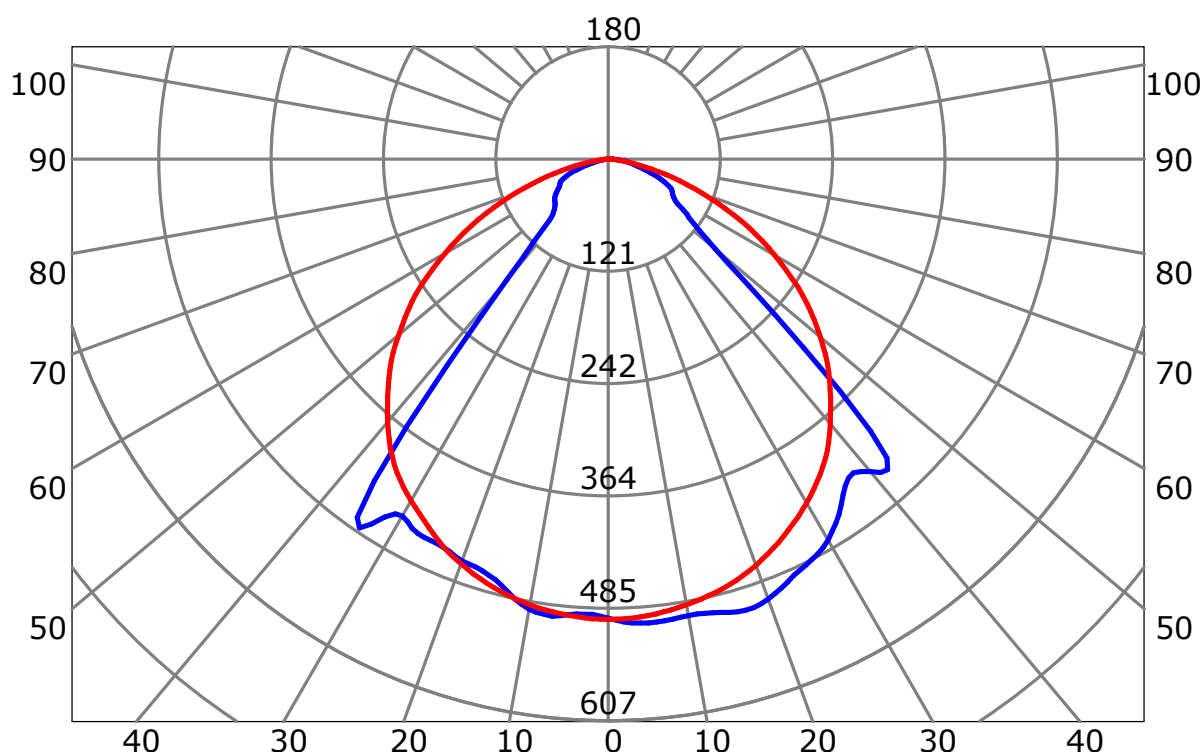
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

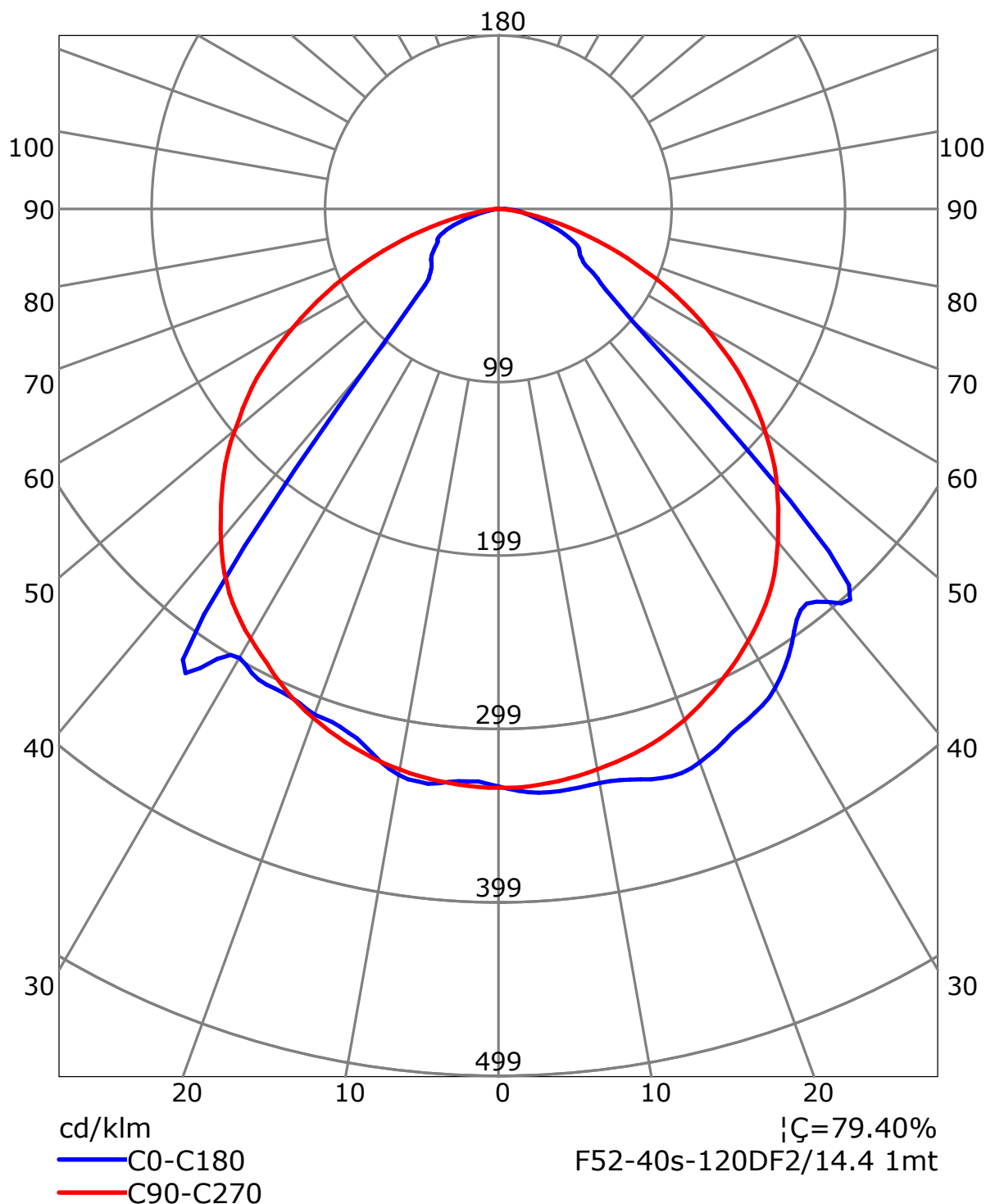


Unit: cd

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:

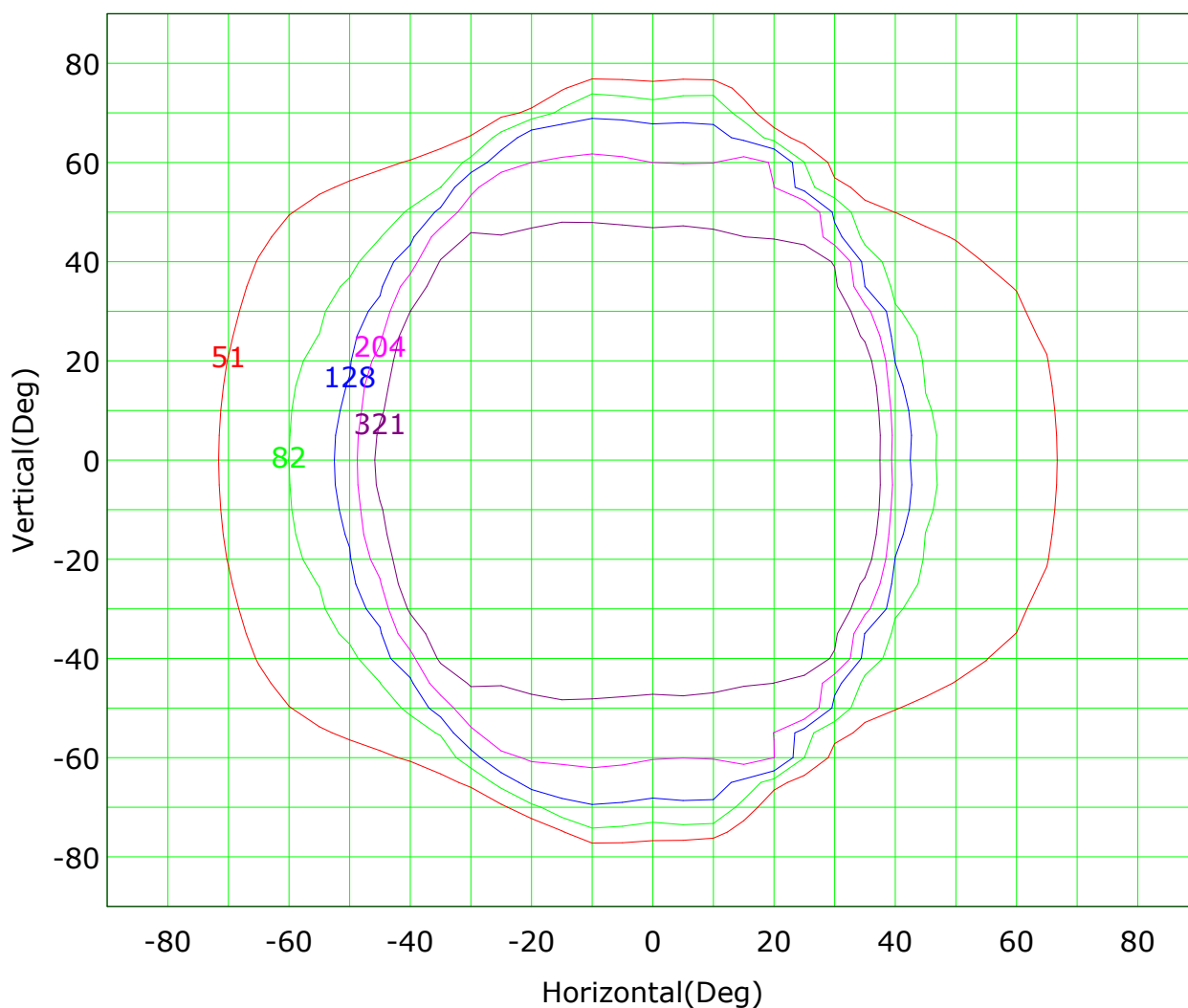
Luminous Intensity Distribution Curve(cd/klm)



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%): 510 cd

(10%):	51 cd	(16%):	82 cd
(25%):	128 cd	(40%):	204 cd
(63%):	321 cd	(100%):	510 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

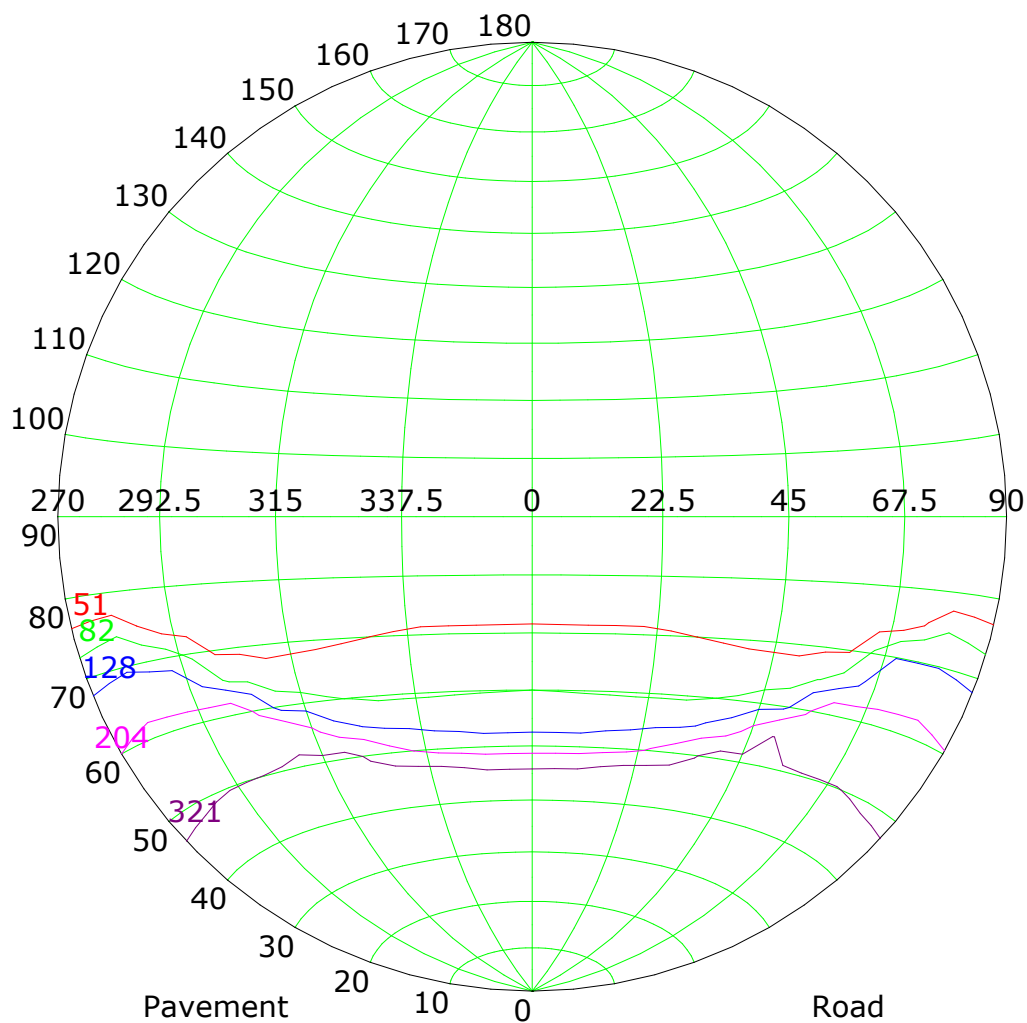
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 510 cd

(10%): 51 cd	(16%): 82 cd
(25%): 128 cd	(40%): 204 cd
(63%): 321 cd	(100%): 510 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

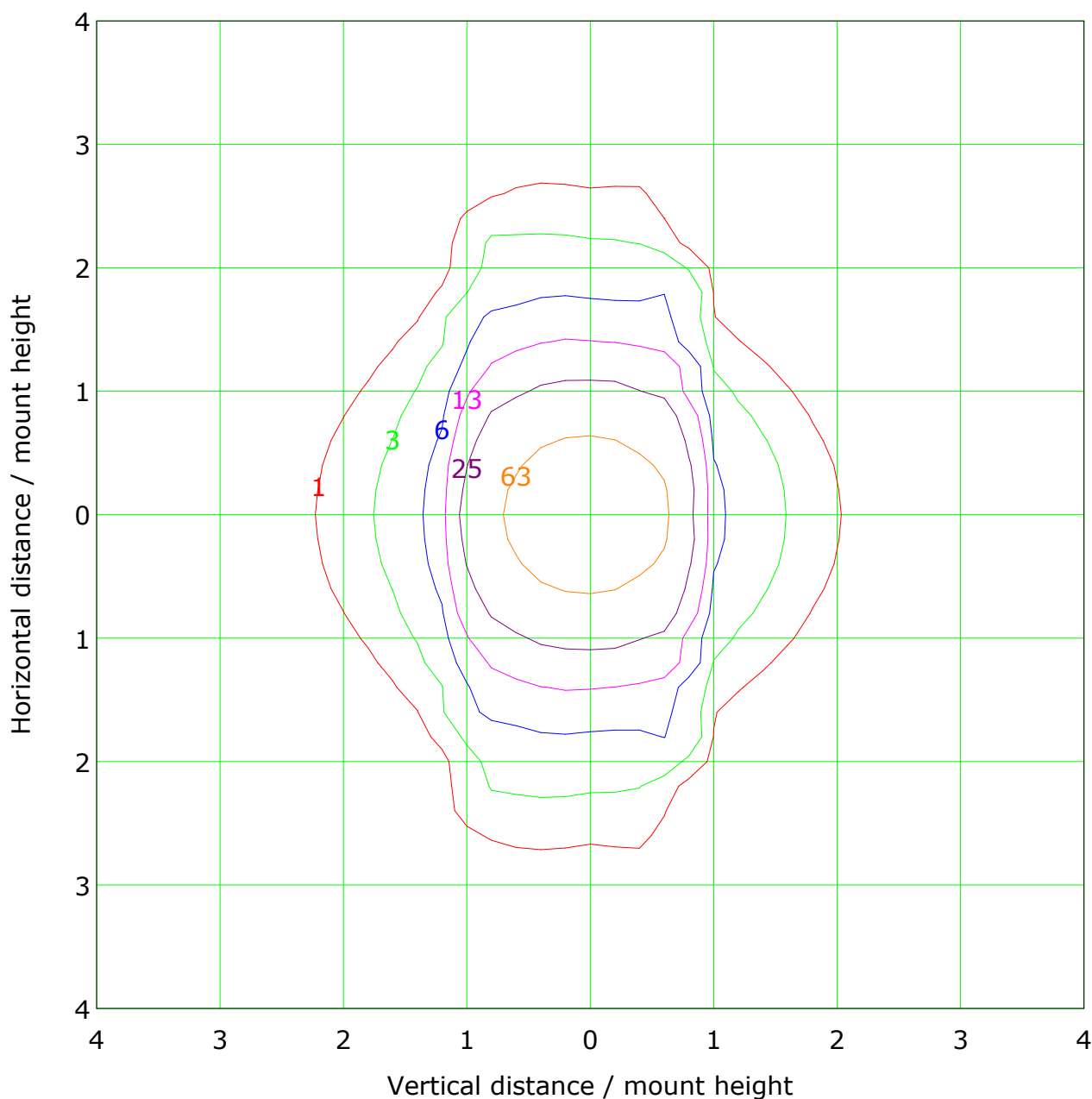
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

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%):	62.6 lx
(100%):	125.1 lx		

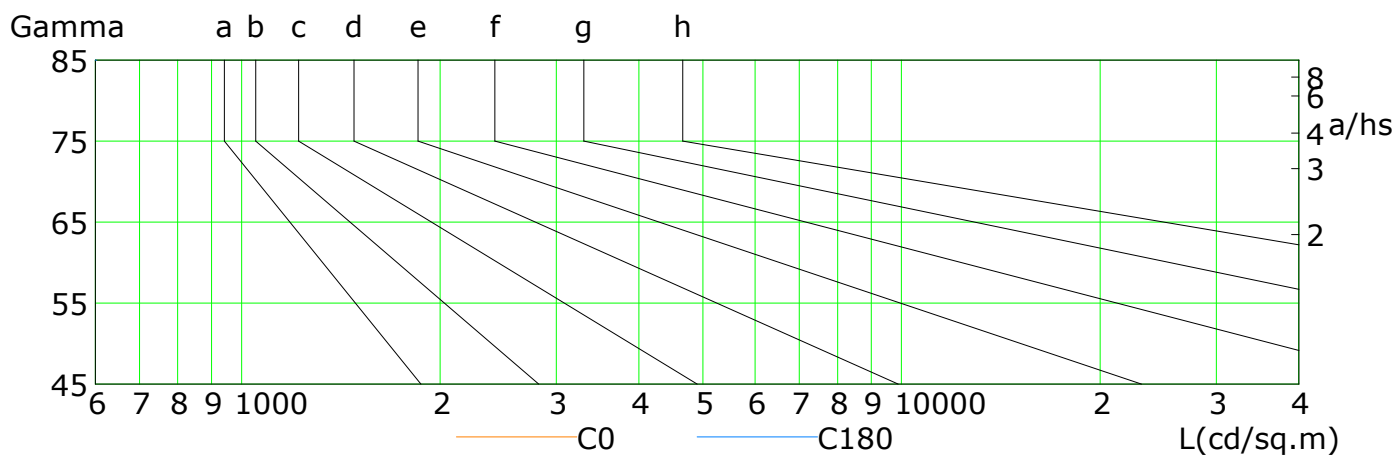
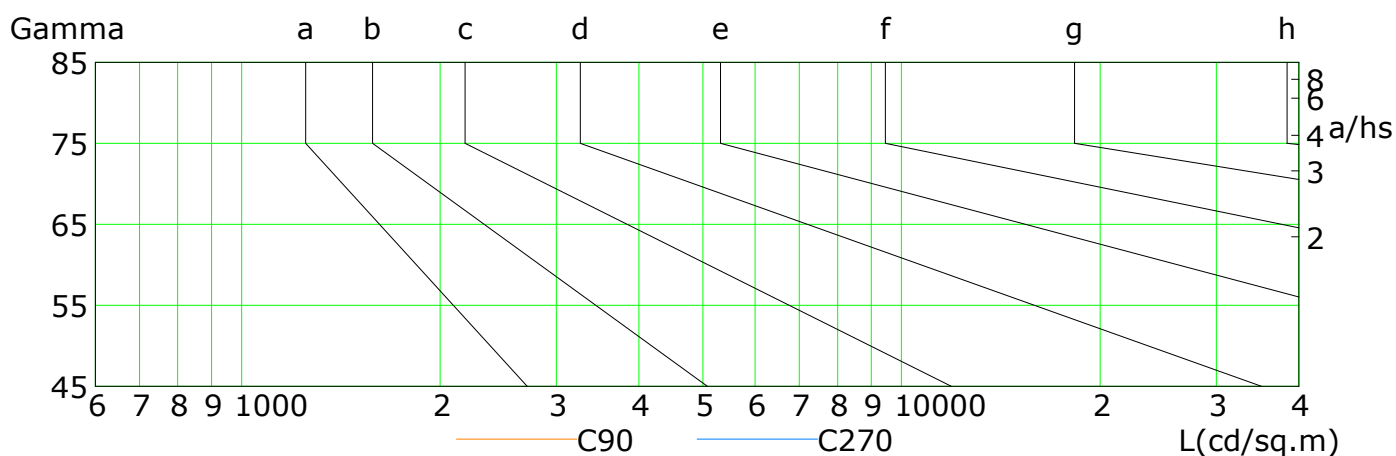
C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

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

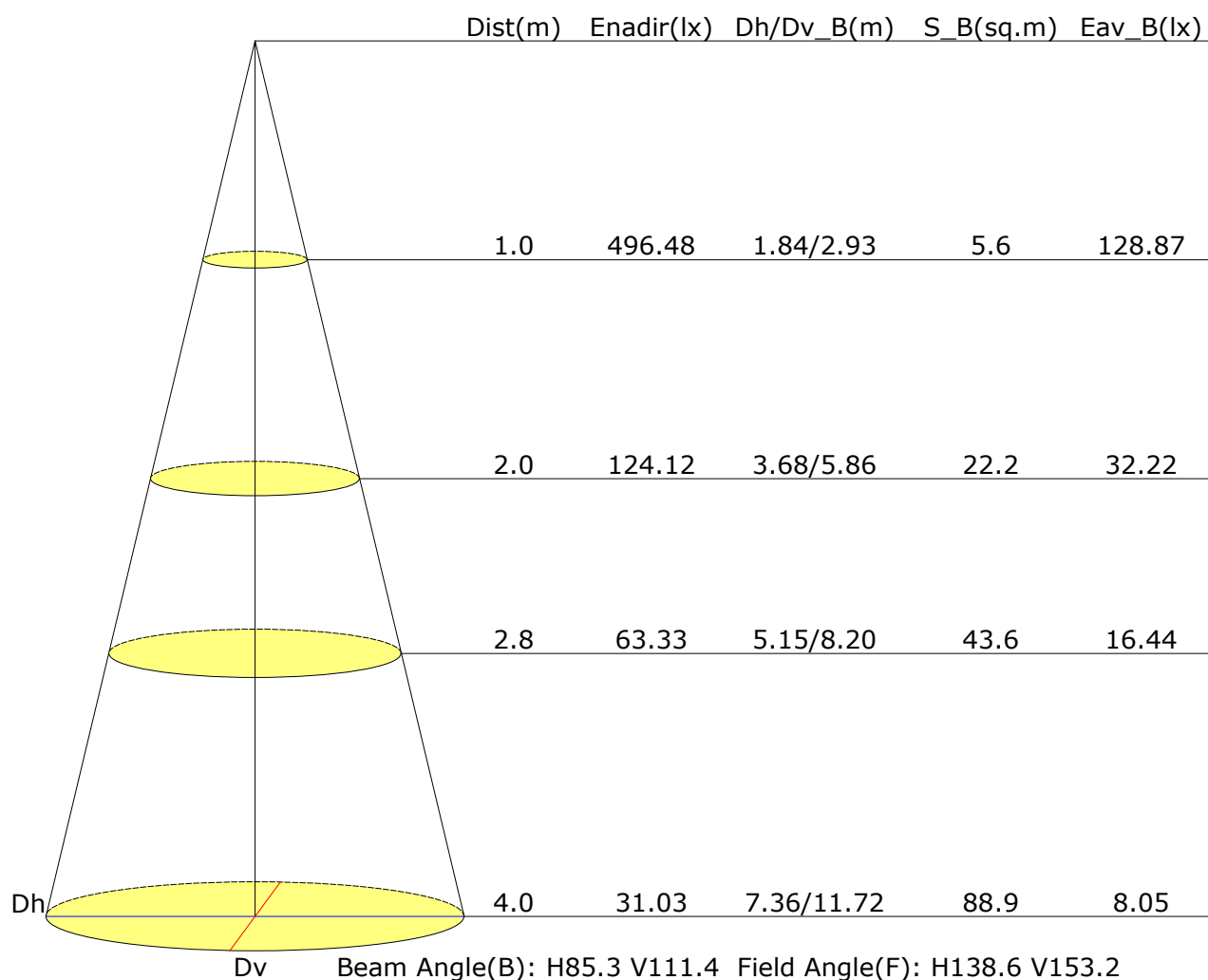


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	354	151	104	82	75	57	37	24	12
C90	339	300	257	208	159	109	64	28	6
C180	85	75	70	62	56	41	21	6	0
C270	336	296	254	204	155	105	60	25	5

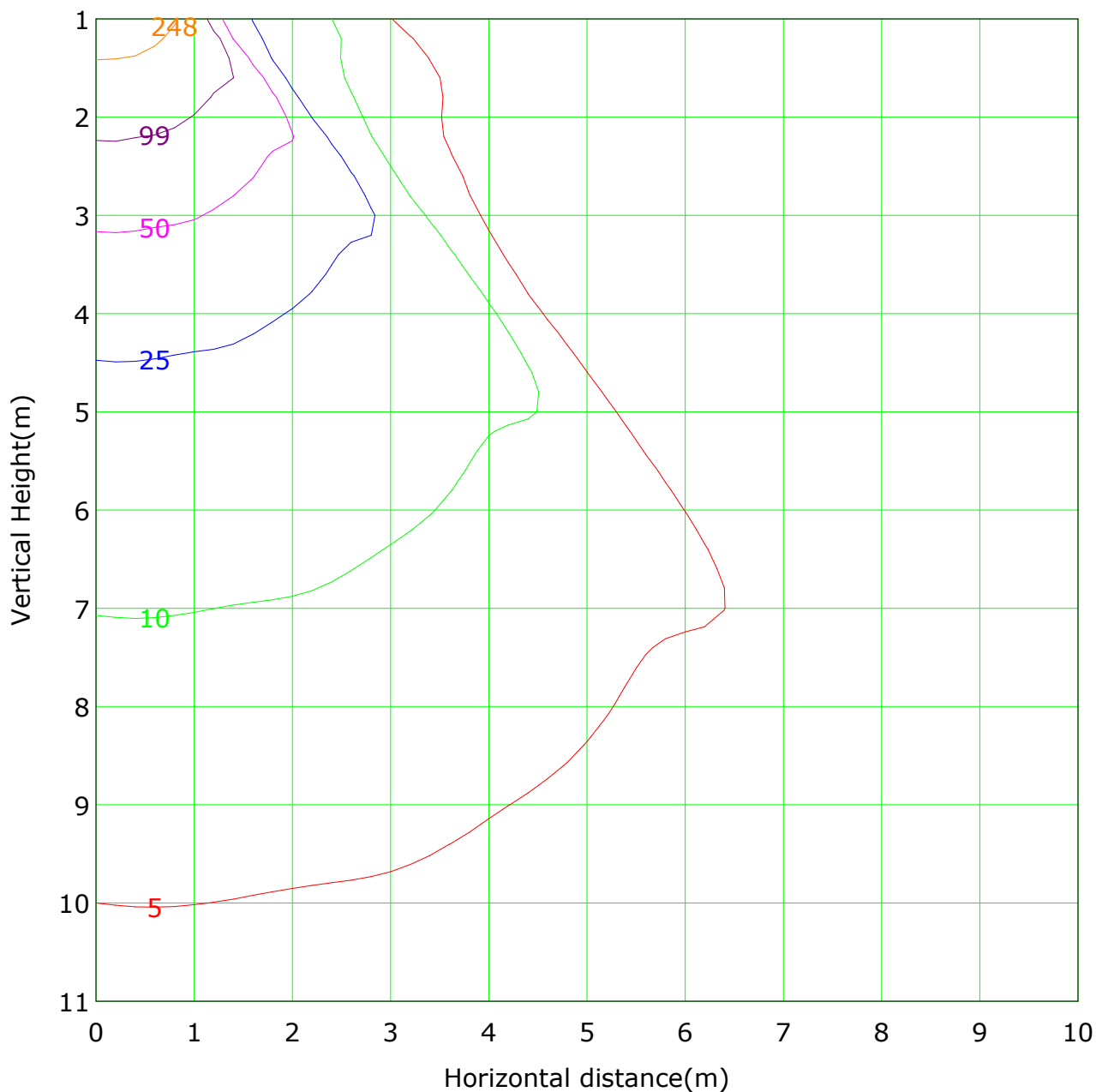
C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 496.5 lx

— (1%): 5.0 lx	— (2%): 9.9 lx
— (5%): 24.8 lx	— (10%): 49.6 lx
— (20%): 99.3 lx	— (50%): 248.2 lx
— (100%): 496.5 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:

Report No.:

Test Time: 16/04/2025 07:57

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-WL05-05+LLD-05-FM

Lamp Description: F52-40s-120DF2/14.4 1mt

Number of Lamps: 1

Voltage: 24,067 V

Power: 13,26 W

Lumens per Lamp: 1491

Current: 0.54 A

Power Factor: 1

Photometric Results

CIE Class: Direct

Measurement Flux: 942.8 lm

Downward Ratio: 63.23%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.6, 159.4, 159.5, 159.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.8, 109.4, 110.0, 110.1

Luminaire Efficacy Rating (LER): 72.57

Max. Intensity: 341.46 cd

S/MH(C0/C180): 1.24

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 63.23%

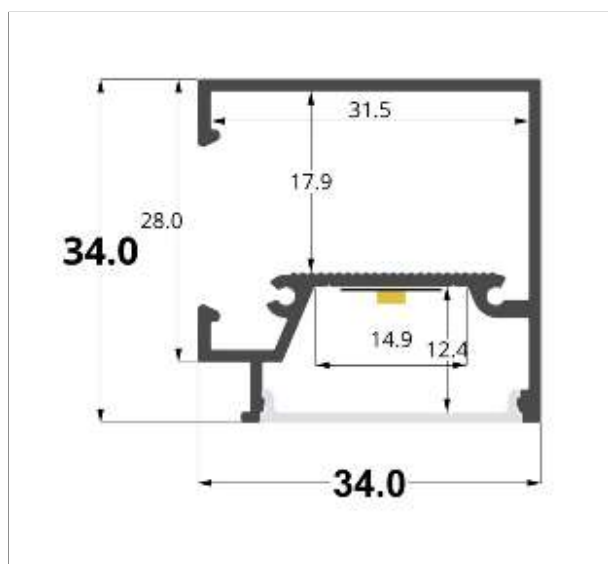
Upward Ratio: 0.00%

Central Intensity: 341.35 cd

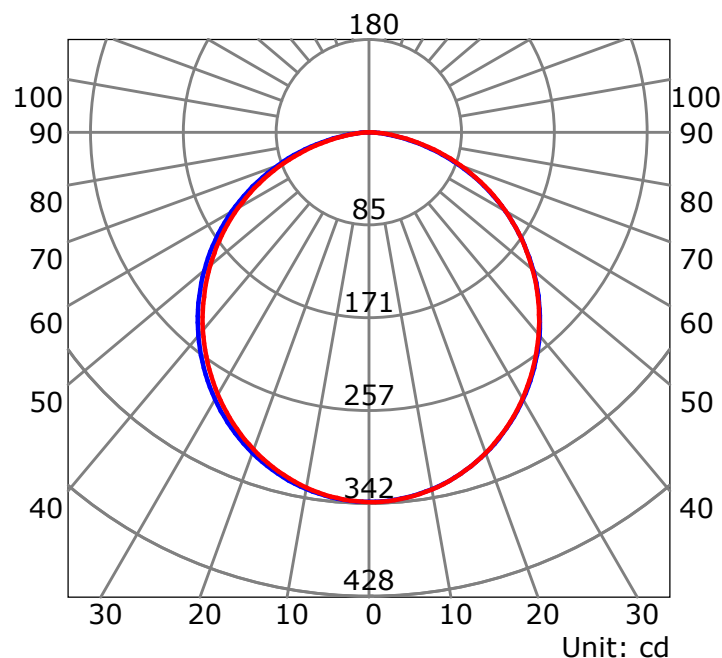
Pos of Max. Intensity: H90 V1

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

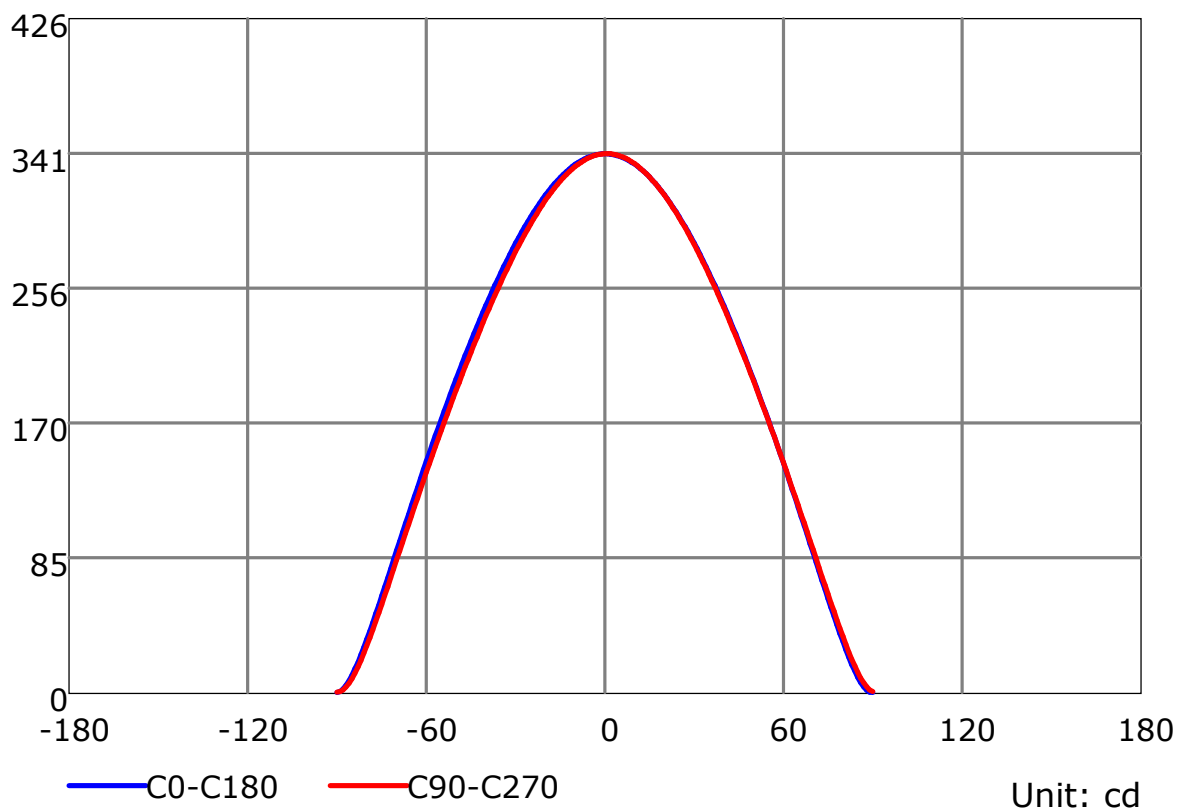
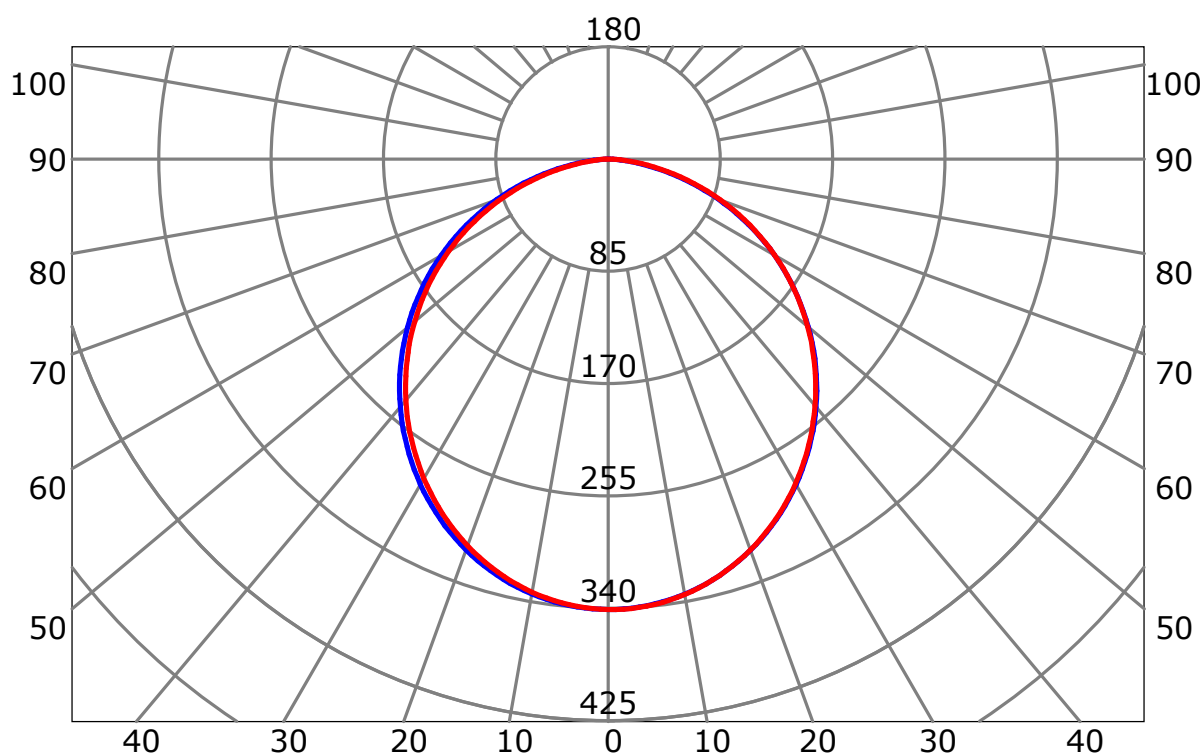
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

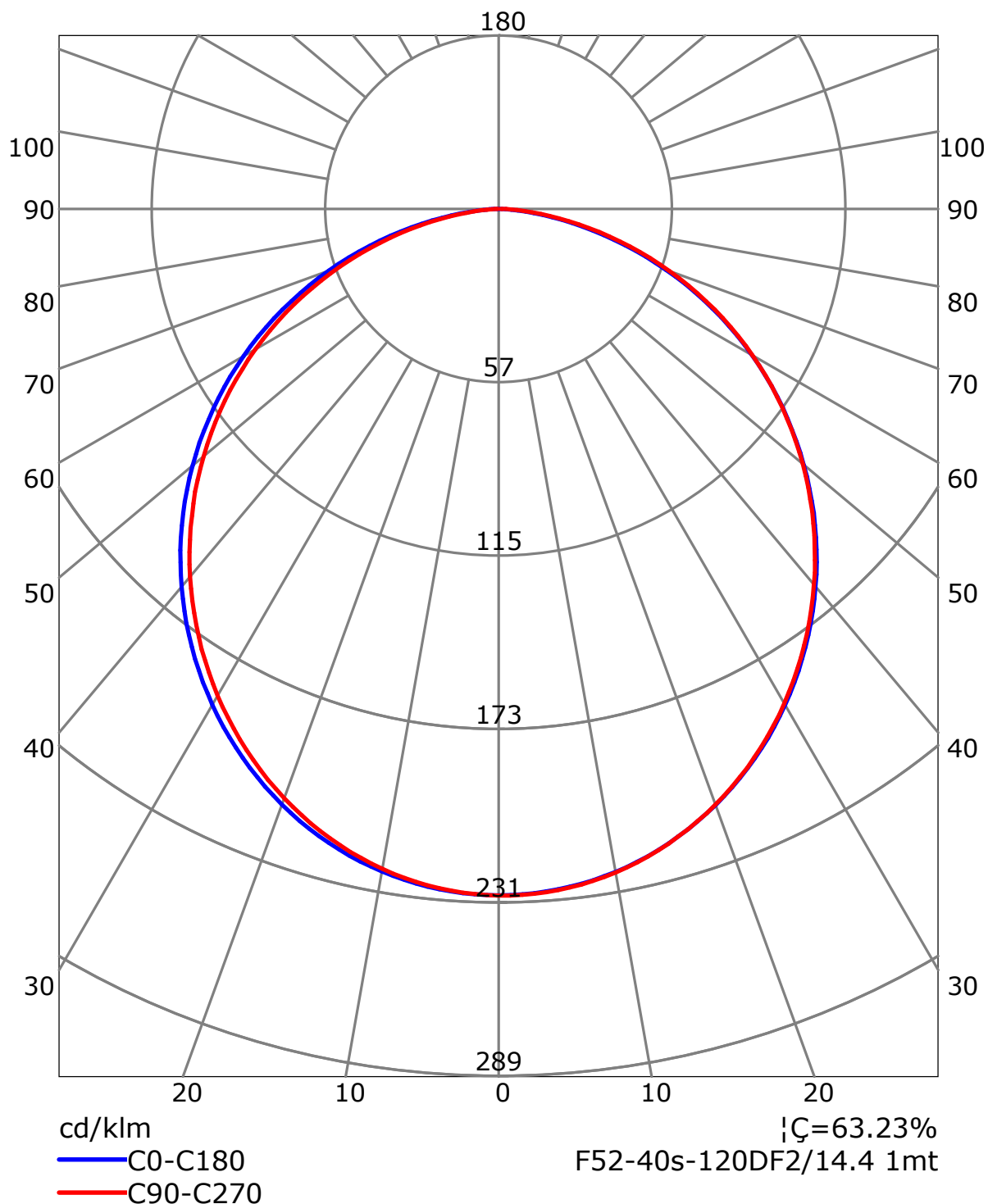
Luminous Intensity Distribution Curve



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:

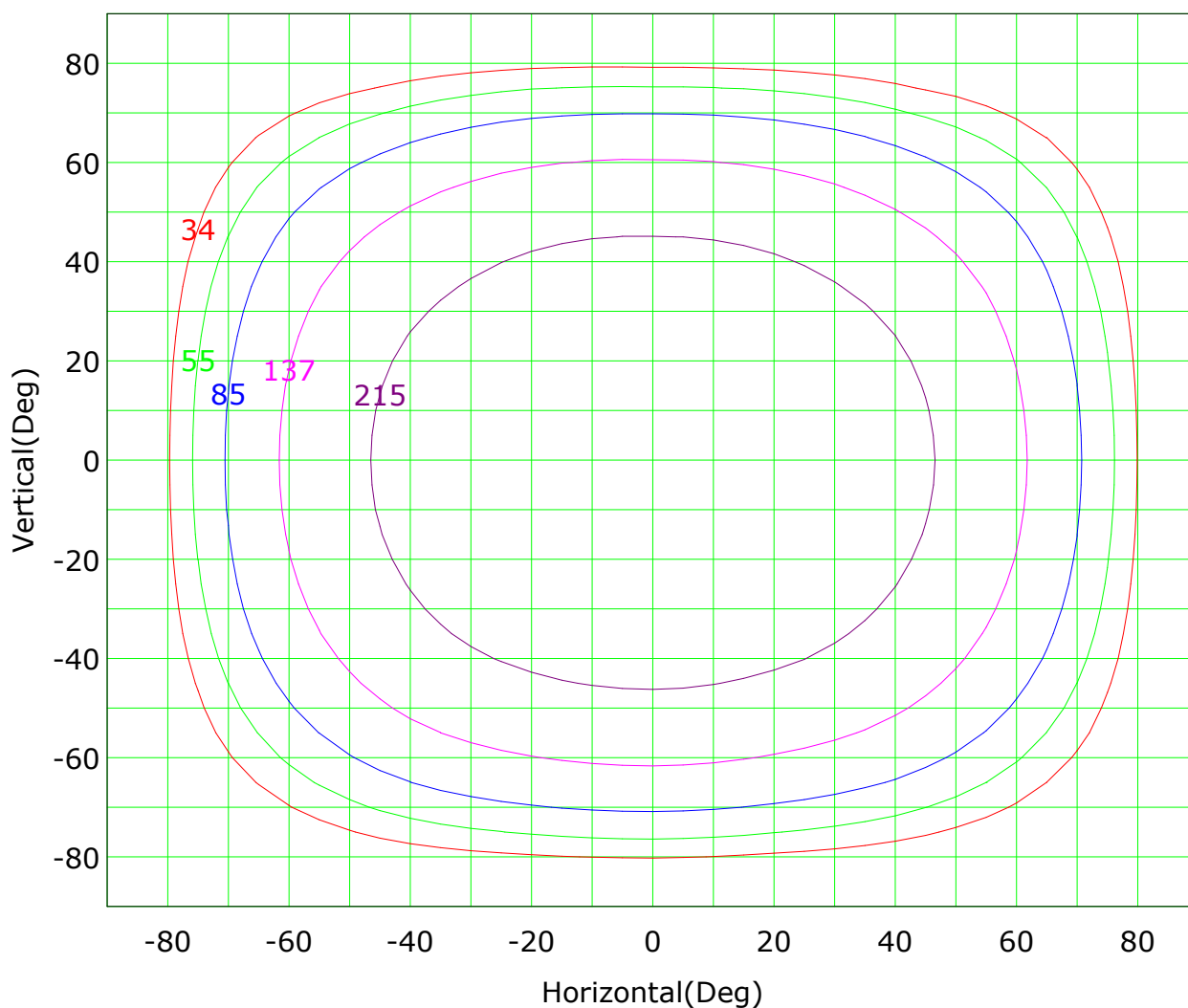
Luminous Intensity Distribution Curve(cd/klm)



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%): 341 cd

(10%):	34 cd	(16%):	55 cd
(25%):	85 cd	(40%):	137 cd
(63%):	215 cd	(100%):	341 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

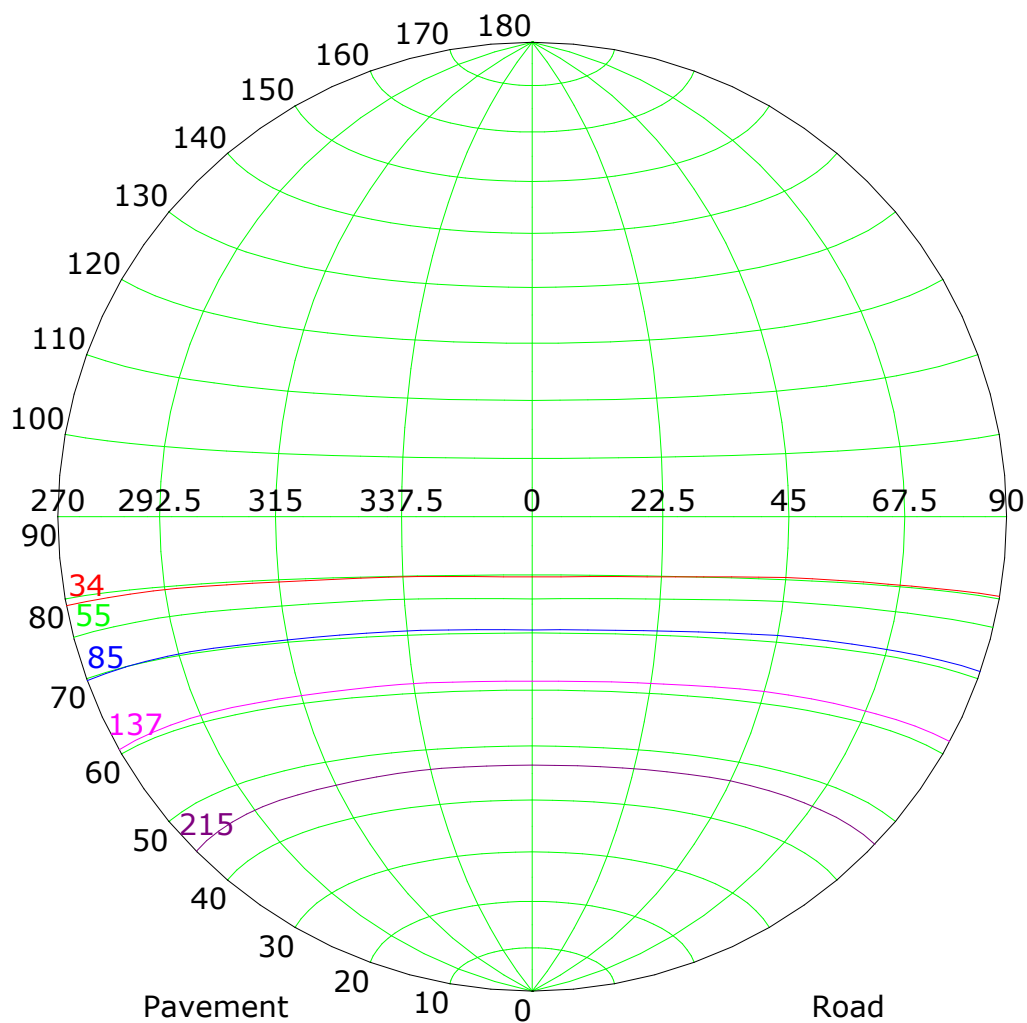
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 341 cd

(10%):	34 cd	(16%):	55 cd
(25%):	85 cd	(40%):	137 cd
(63%):	215 cd	(100%):	341 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

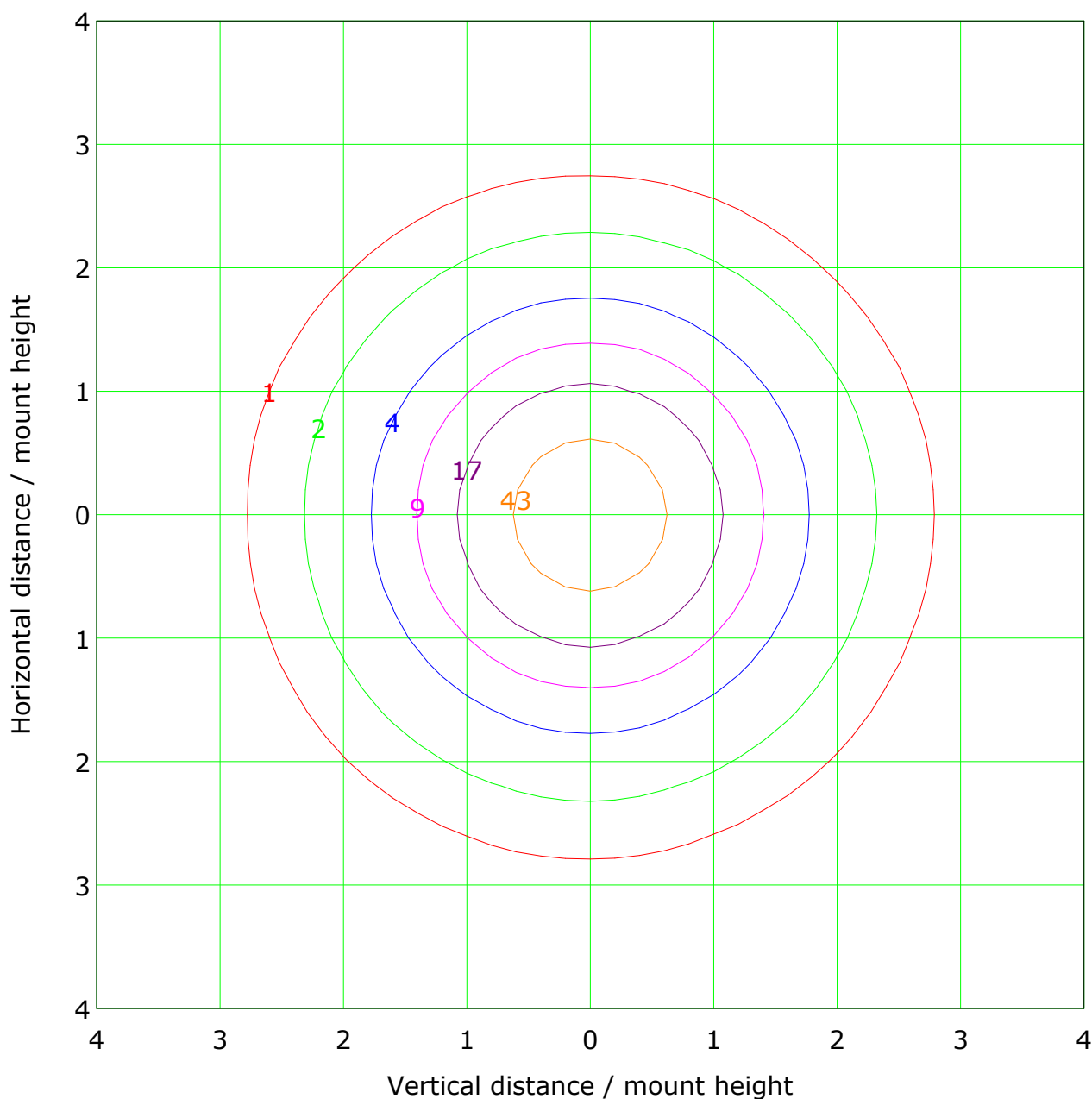
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 85.4 lx	
(1%):	0.9 lx	(2%):	1.7 lx
(5%):	4.3 lx	(10%):	8.5 lx
(20%):	17.1 lx	(50%):	42.7 lx
(100%):	85.4 lx		

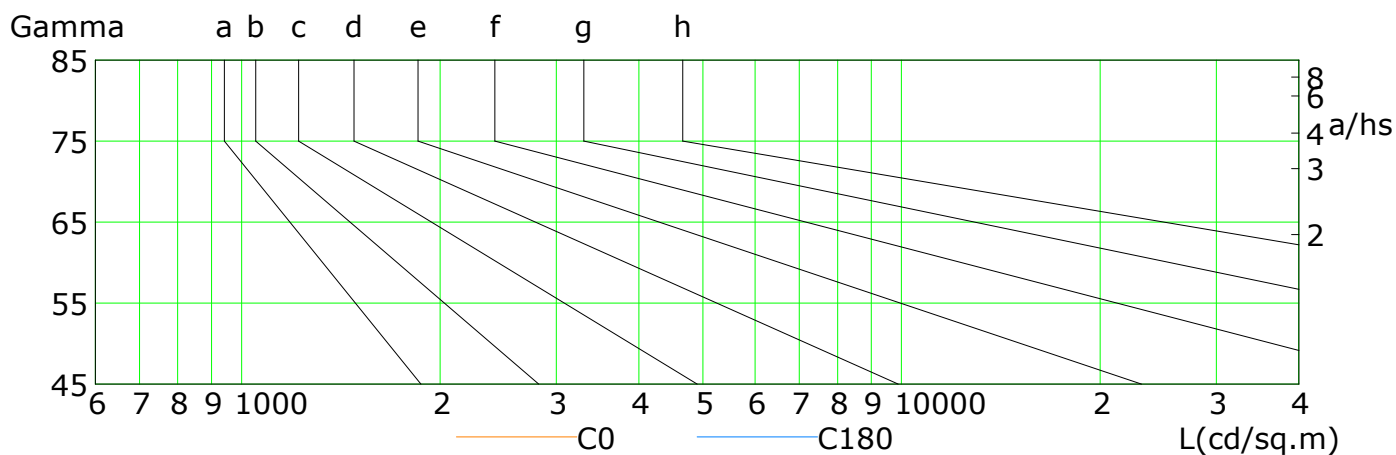
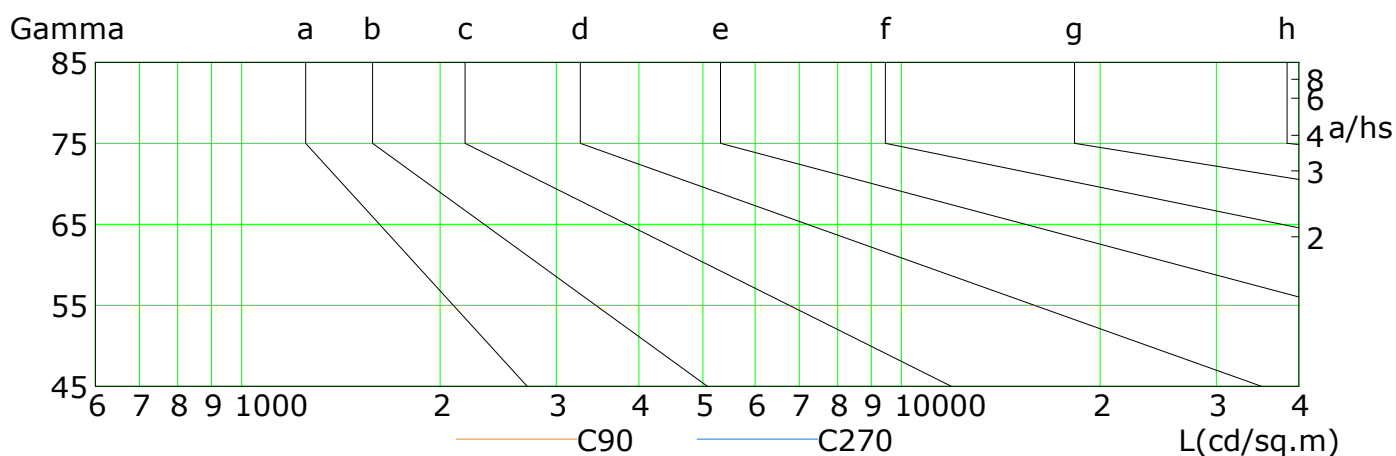
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

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

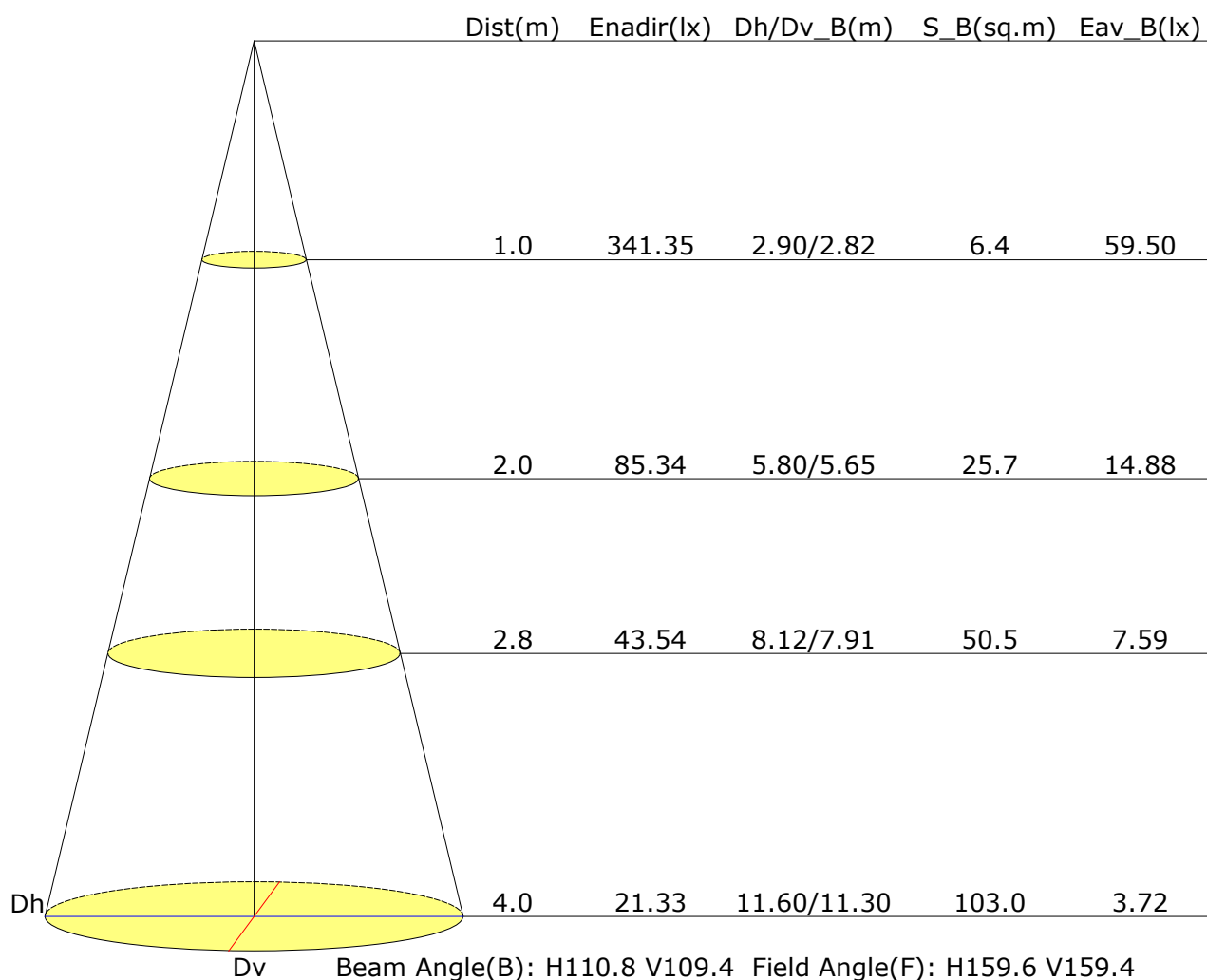


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	222	198	173	145	117	89	60	32	10
C90	221	197	172	146	119	90	63	36	13
C180	223	199	173	146	119	90	61	34	11
C270	216	192	166	140	112	84	56	30	9

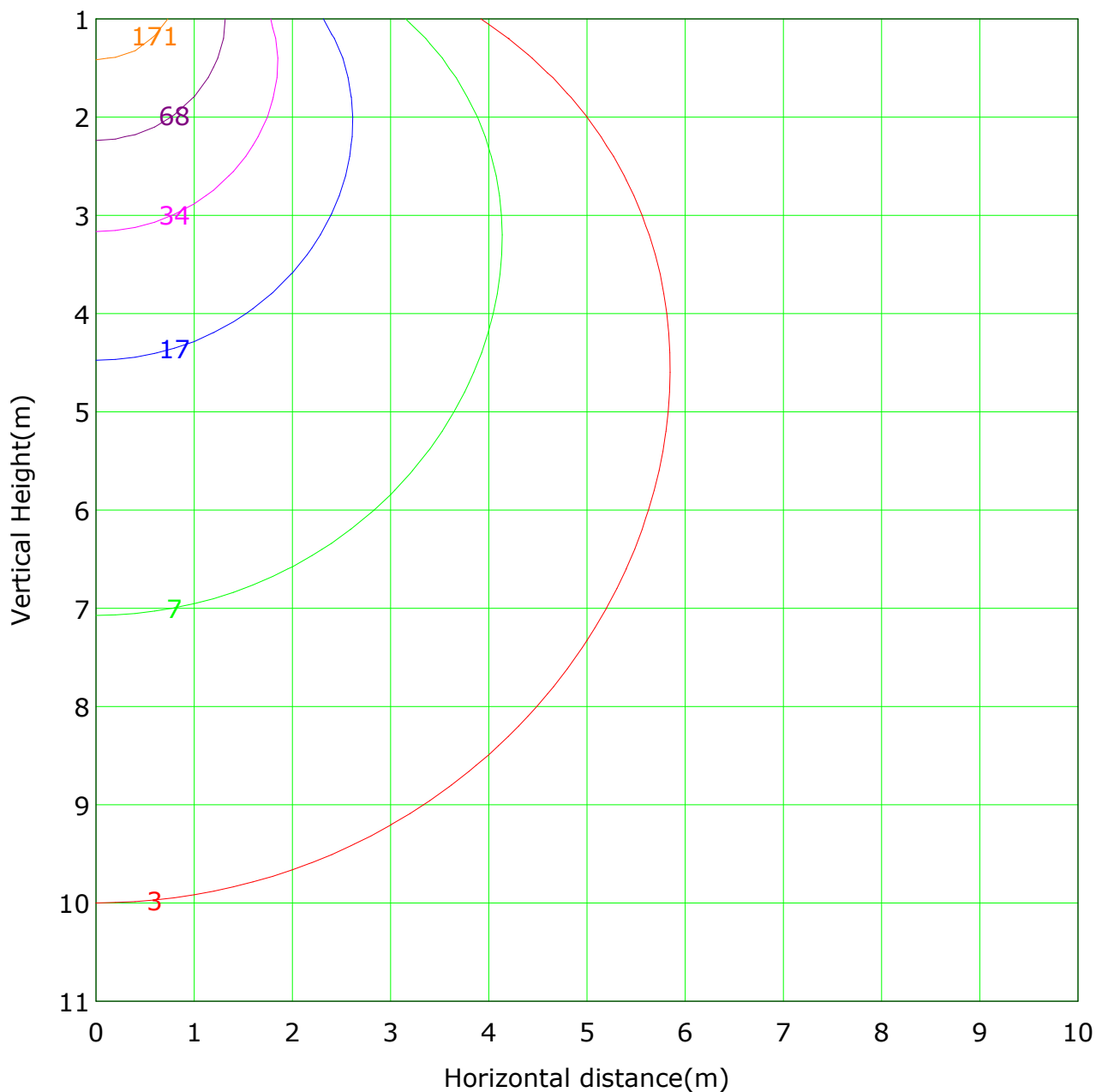
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 341.4 lx

— (1%): 3.4 lx	— (2%): 6.8 lx
— (5%): 17.1 lx	— (10%): 34.1 lx
— (20%): 68.3 lx	— (50%): 170.7 lx
— (100%): 341.4 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: 16/04/2025 07:19

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-WL05-05+LLD-05-FS

Lamp Description: F52-40s-120DF2/14.4 1mt

Number of Lamps: 1

Voltage: 24,067 V

Power: 13.26 W

Lumens per Lamp: 1491

Current: 0.54 A

Power Factor: 1

Photometric Results

CIE Class: Direct

Measurement Flux: 924.9 lm

Downward Ratio: 62.03%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.0, 161.7, 161.8, 161.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 105.8, 103.8, 104.7, 104.8

Luminaire Efficacy Rating (LER): 69.80

Max. Intensity: 348.05 cd

S/MH(C0/C180): 1.20

Total Rated Lamp Lumens: 1491.0 lm

Efficiency: 62.03%

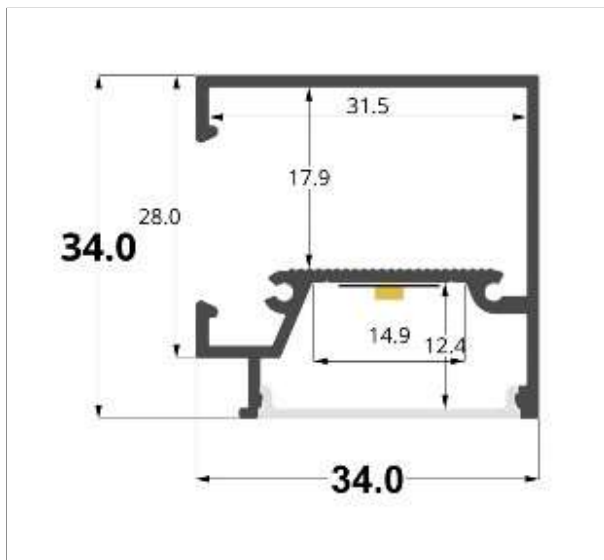
Upward Ratio: 0.00%

Central Intensity: 347.92 cd

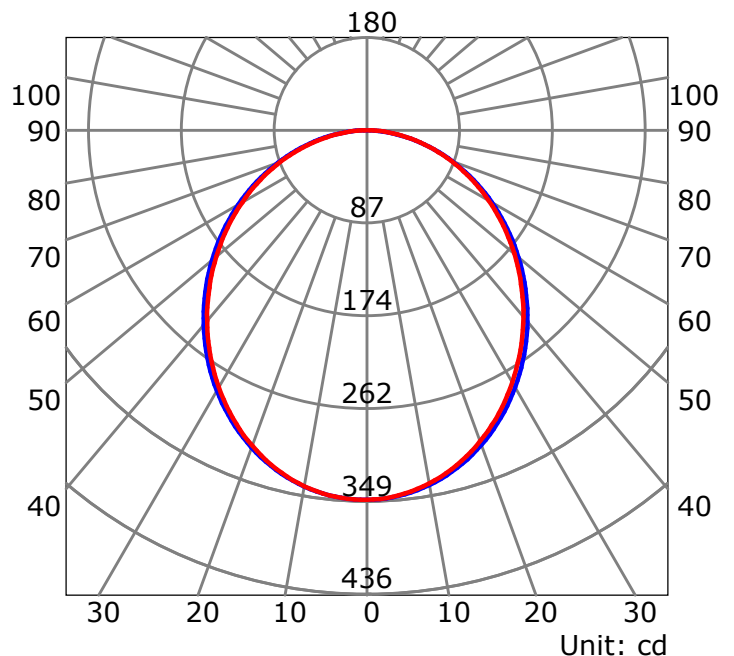
Pos of Max. Intensity: H202.5 V1

S/MH(C90/C270): 1.19

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

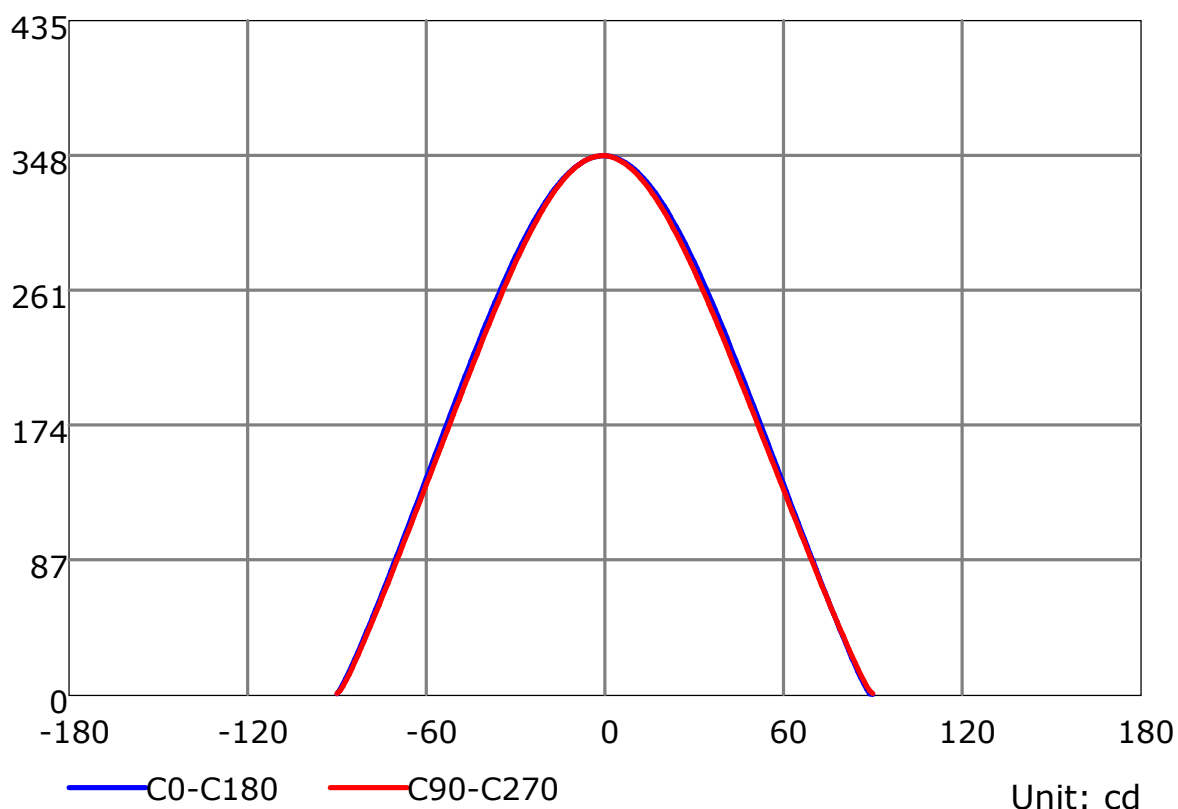
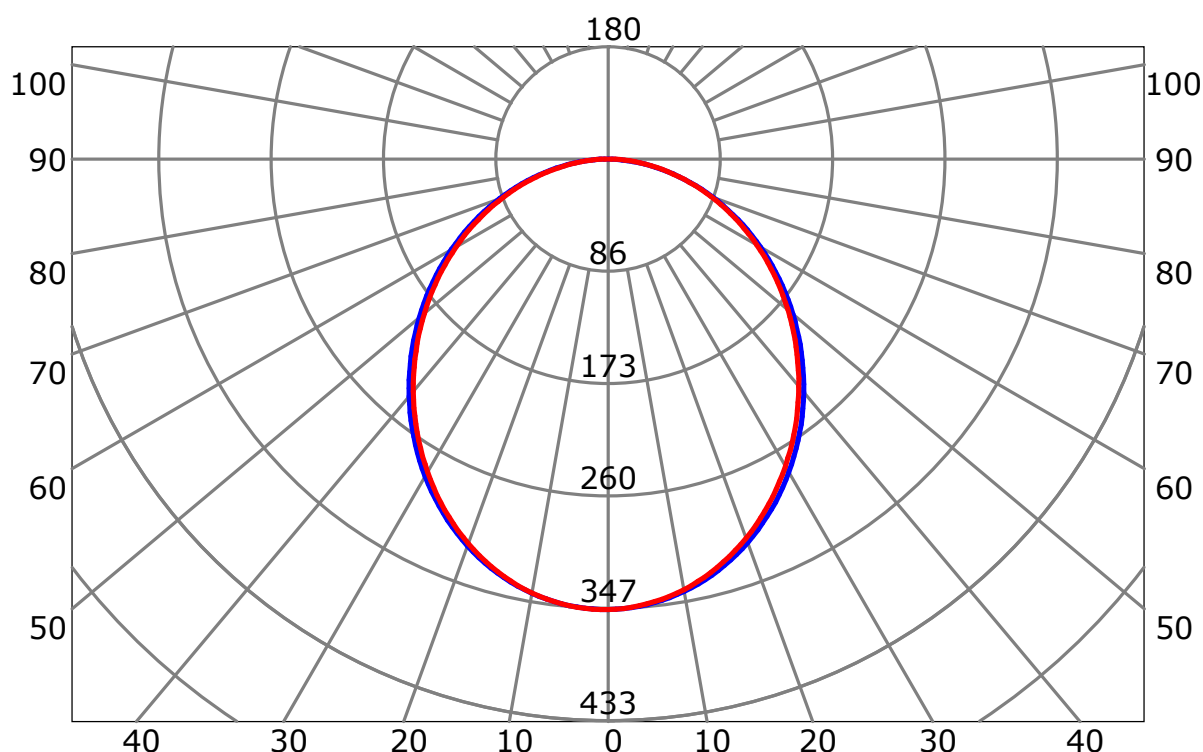
Test Device: GPM-1800B

Distance: 7.792 m

Humidity:

Inspector:

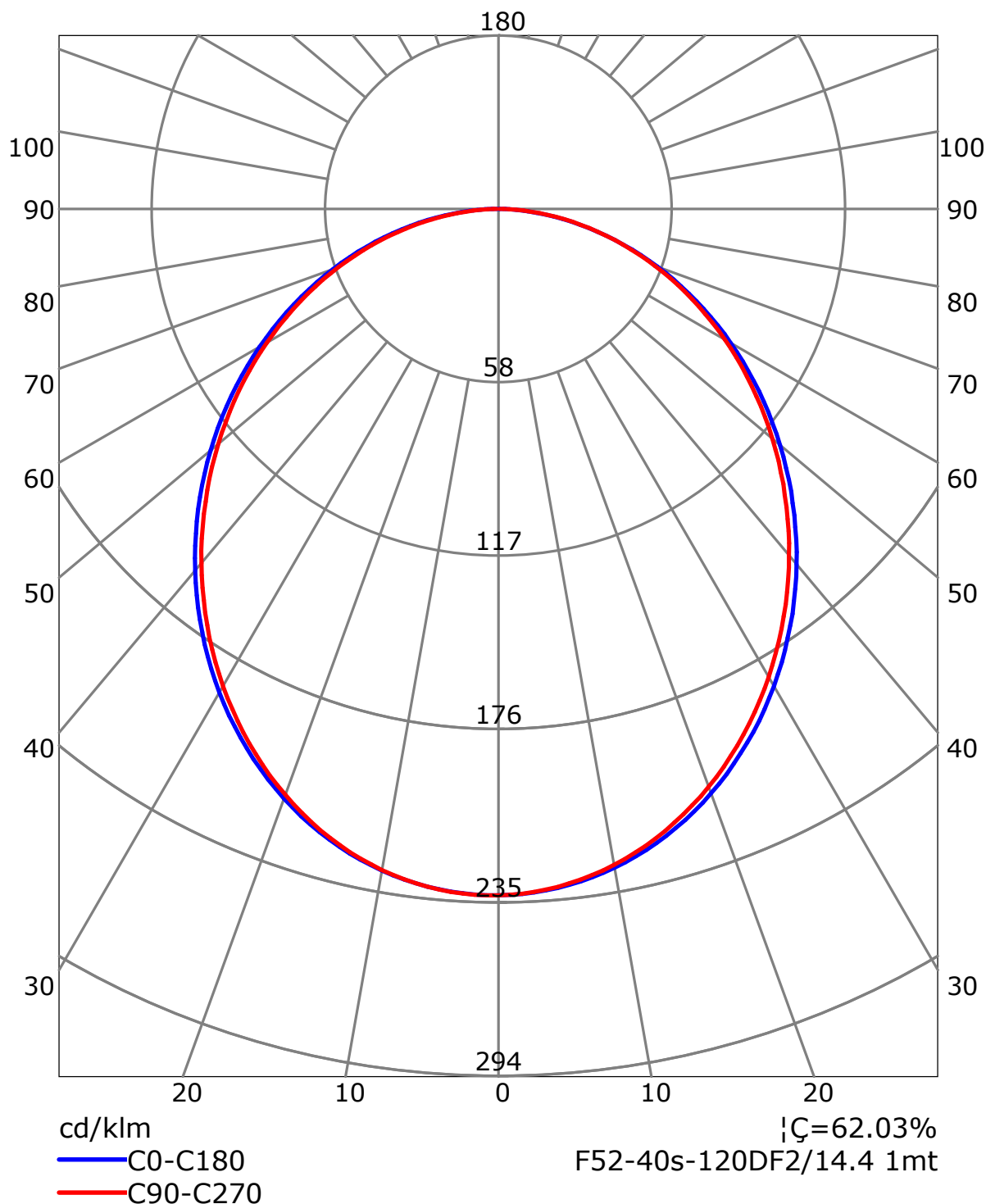
Luminous Intensity Distribution Curve



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:

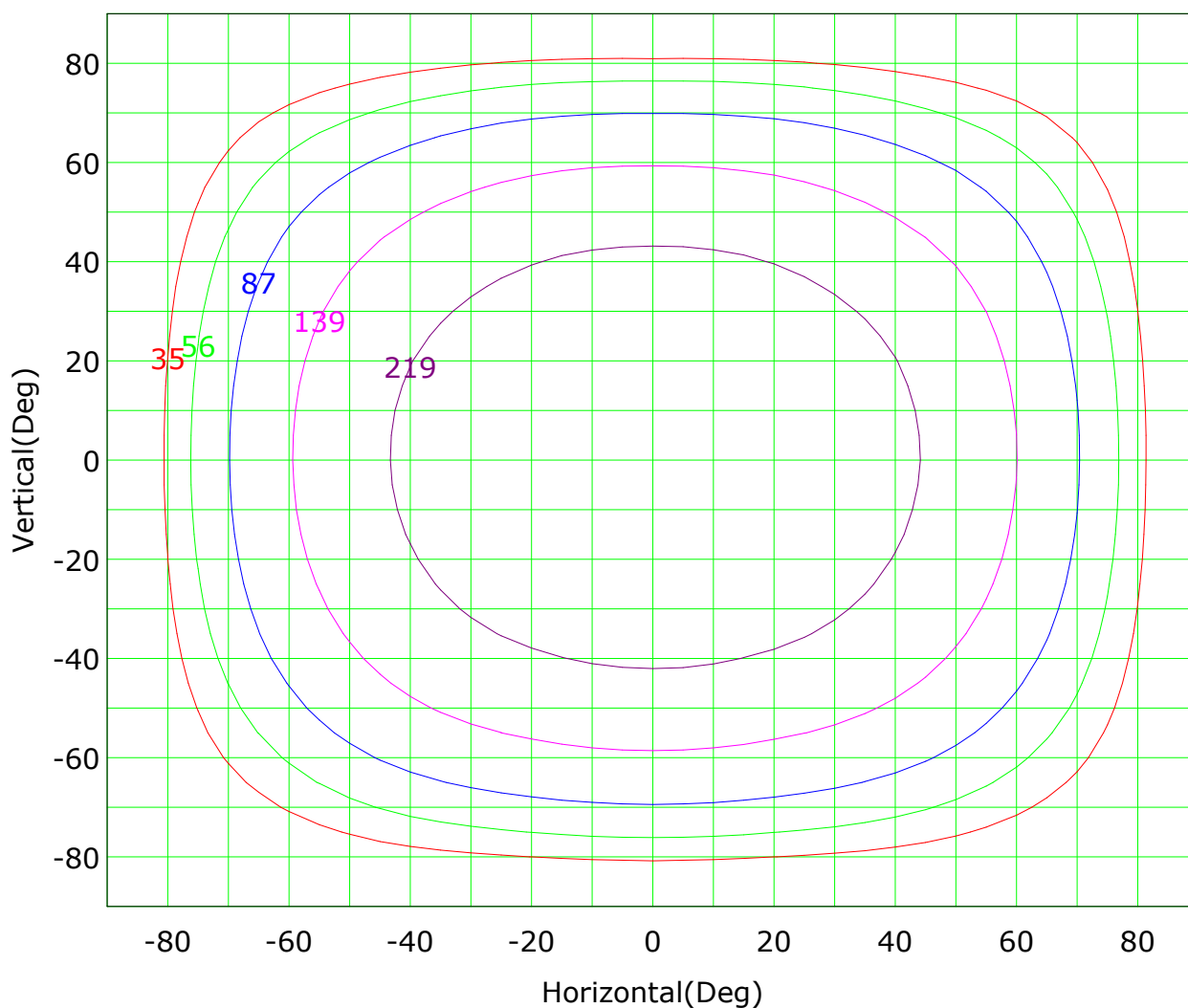
Luminous Intensity Distribution Curve(cd/klm)



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)



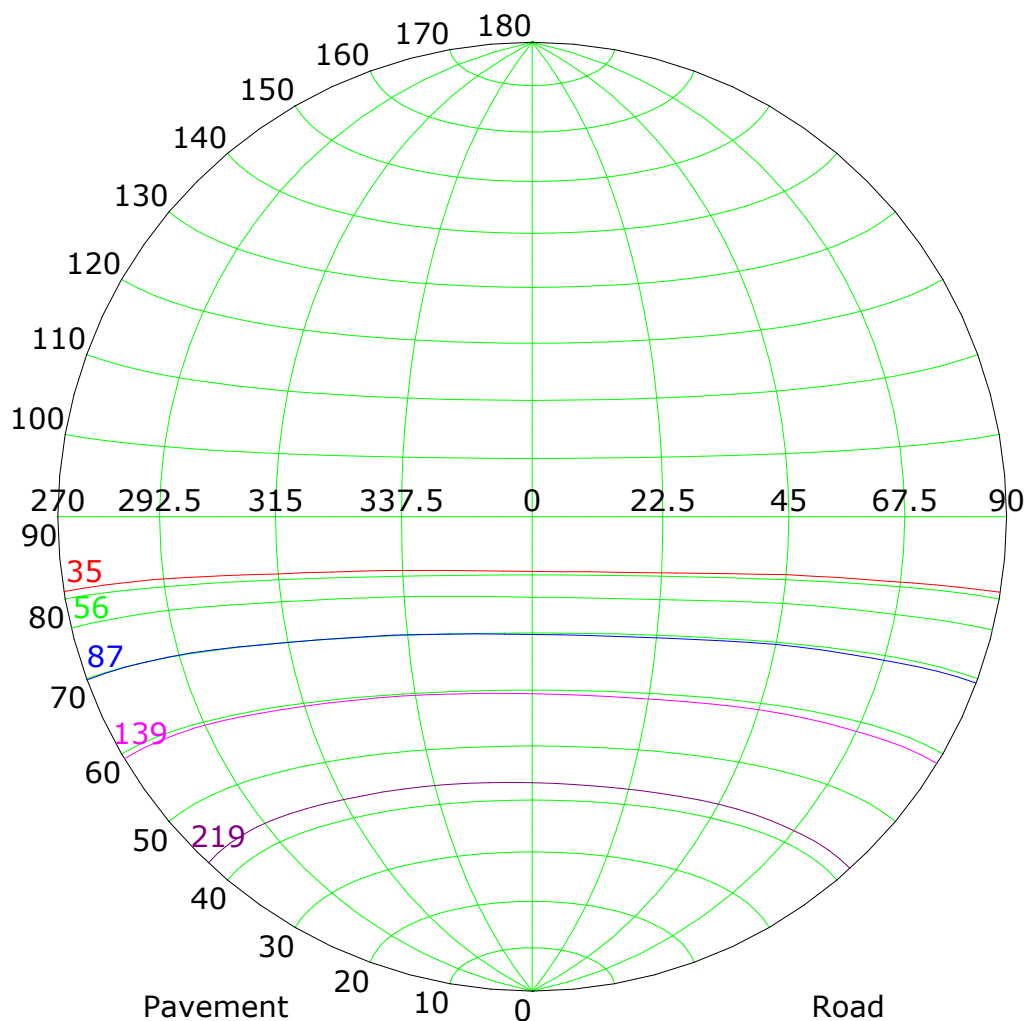
Imax (100%): 348 cd

(10%):	35 cd	(16%):	56 cd
(25%):	87 cd	(40%):	139 cd
(63%):	219 cd	(100%):	348 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:

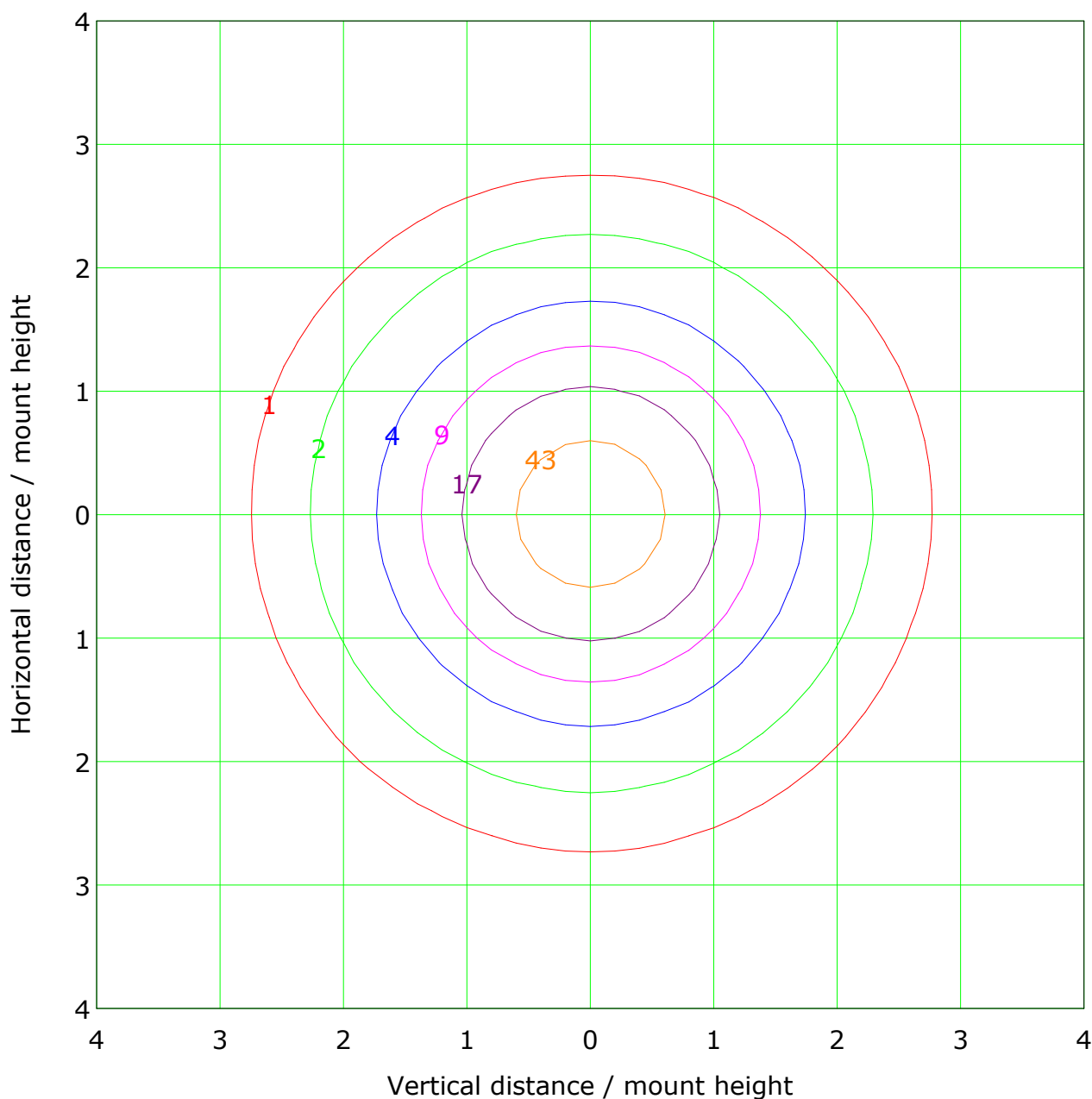
Isocandela (sphere)



Imax (100%): 348 cd

(10%):	35 cd	(16%):	56 cd
(25%):	87 cd	(40%):	139 cd
(63%):	219 cd	(100%):	348 cd

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 87.0 lx	
— (1%):	0.9 lx	— (2%):	1.7 lx
— (5%):	4.3 lx	— (10%):	8.7 lx
— (20%):	17.4 lx	— (50%):	43.5 lx
— (100%):	87.0 lx		

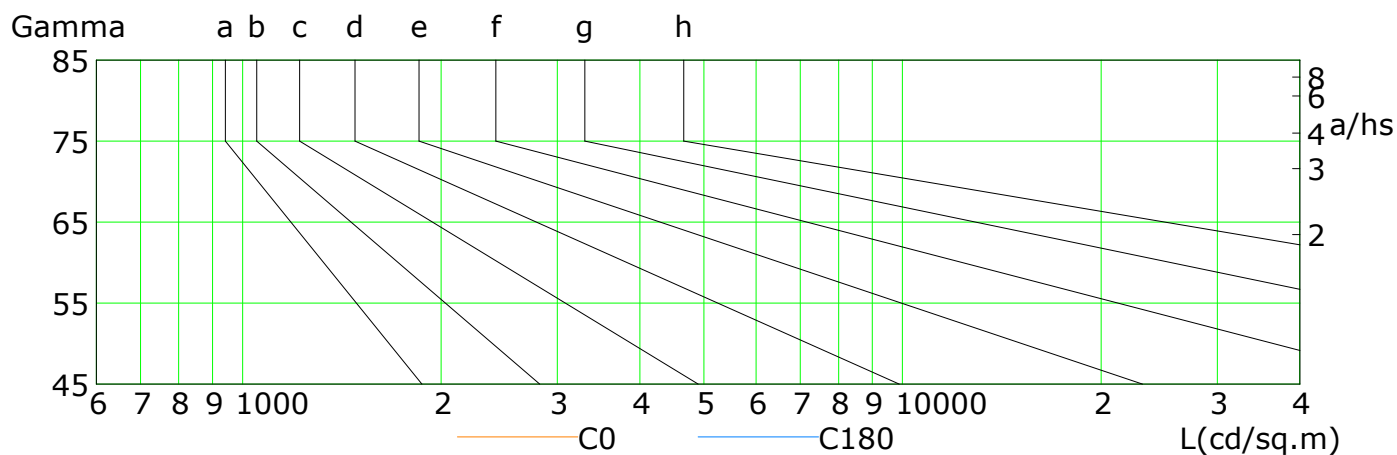
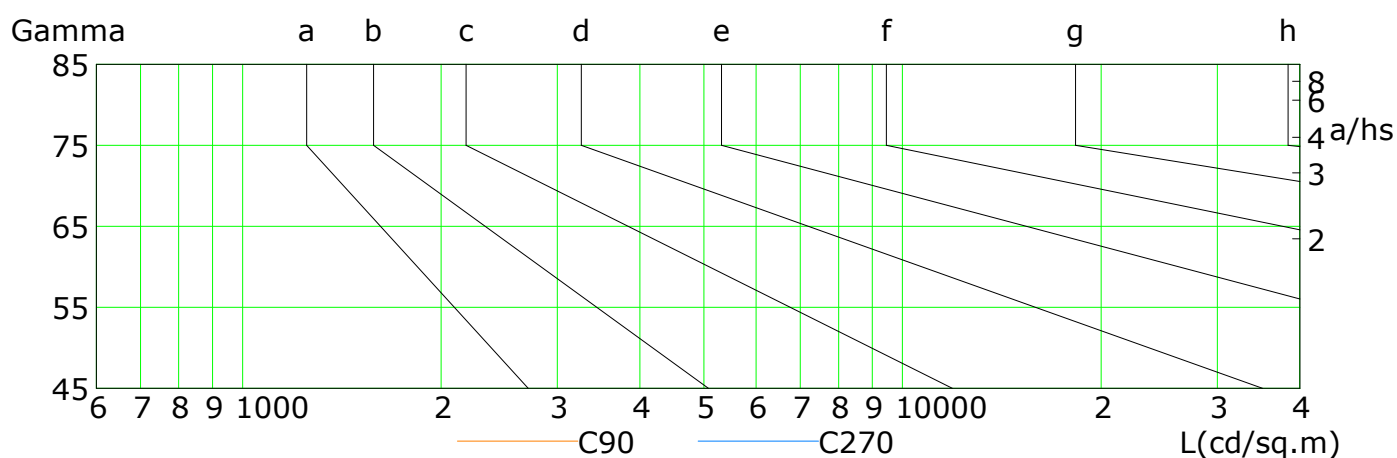
C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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

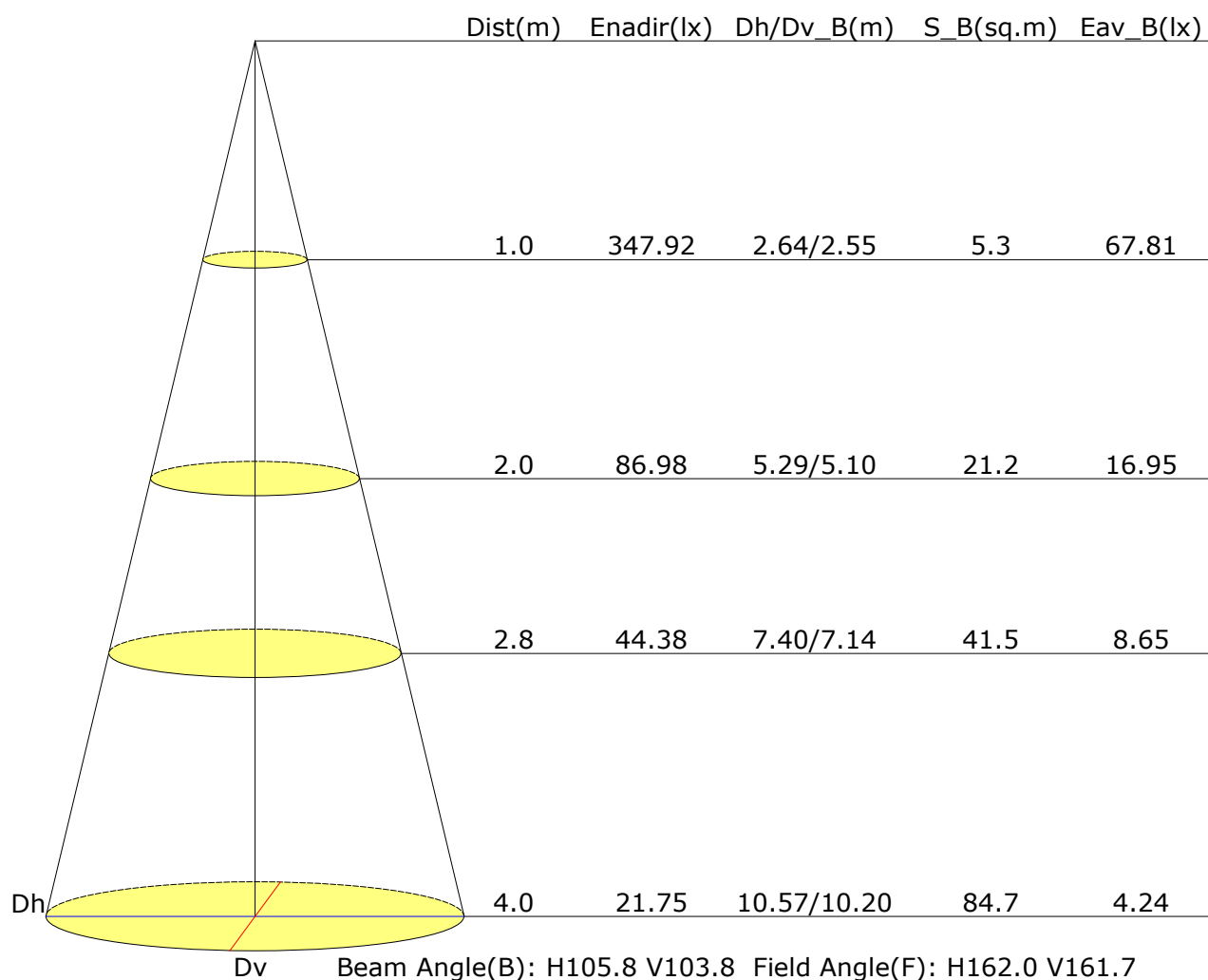


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	211	186	161	136	111	86	61	38	15
C90	205	181	157	133	108	84	61	38	17
C180	215	190	165	140	115	89	65	41	19
C270	210	185	161	136	111	86	62	39	17

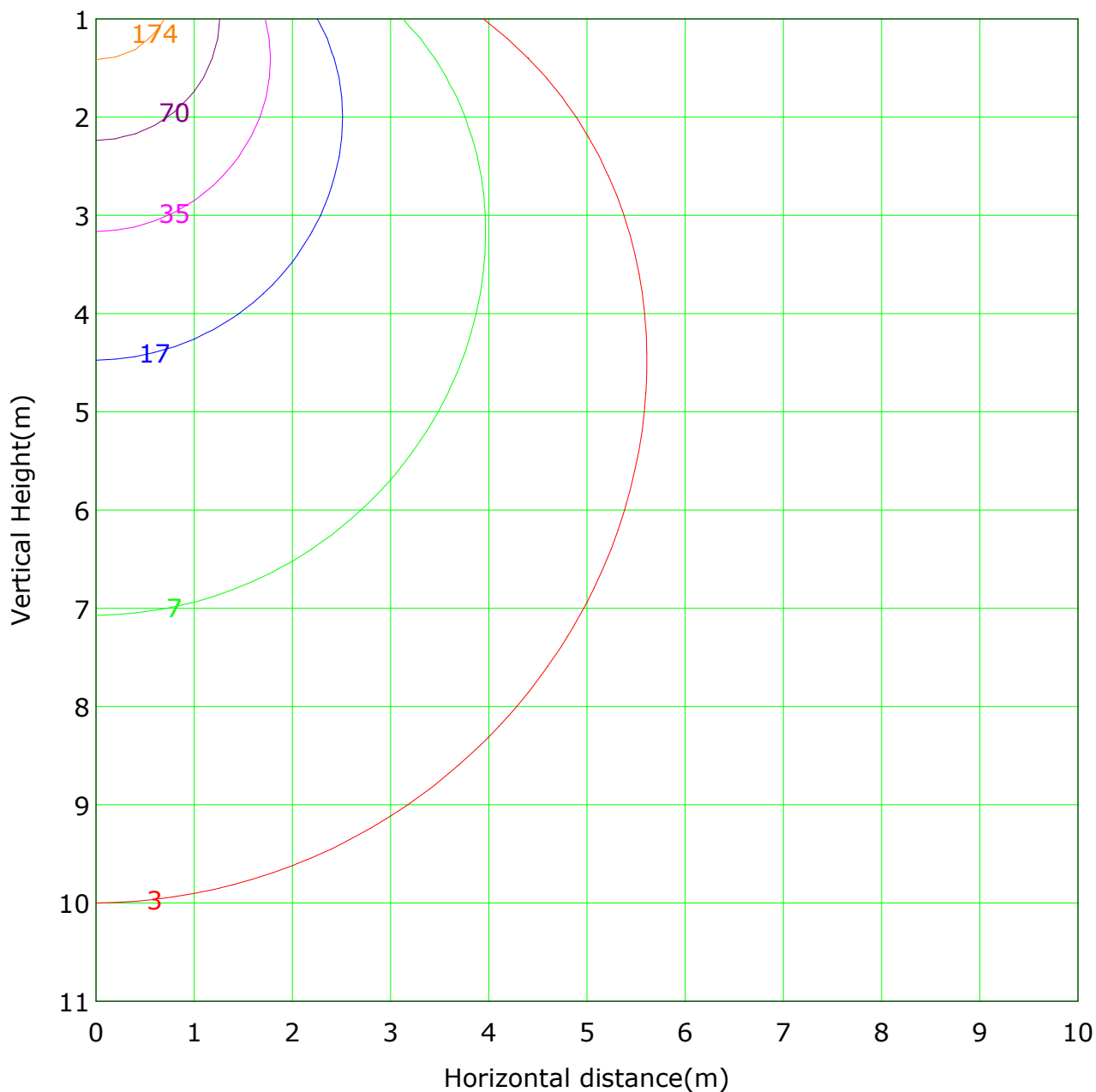
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 347.9 lx

— (1%): 3.5 lx	— (2%): 7.0 lx
— (5%): 17.4 lx	— (10%): 34.8 lx
— (20%): 69.6 lx	— (50%): 174.0 lx
— (100%): 347.9 lx	