

Report No.:

Test Time: 04/02/2021 14:43

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW04-06 + HS05 + LLD-06-CS

Lamp Description: F52-400-60822 90cm

Number of Lamps: 1

Lumens per Lamp: 1434 lm

Voltage: 24.0 V

Current: 0.530 A

Power: 12.70 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 843.9 lm

Downward Ratio: 58.62%

Total Rated Lamp Lumens: 1434.0 lm

Efficiency: 58.85%

Upward Ratio: 0.23%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.1, 163.9, 163.9, 164.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.3, 111.7, 112.0, 112.1

Luminaire Efficacy Rating (LER): 66.50

Central Intensity: 293.02 cd

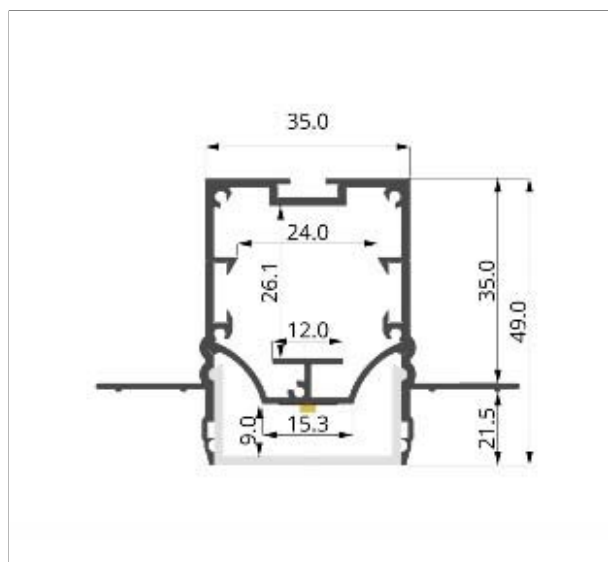
Max. Intensity: 293.02 cd

Pos of Max. Intensity: H0 V0

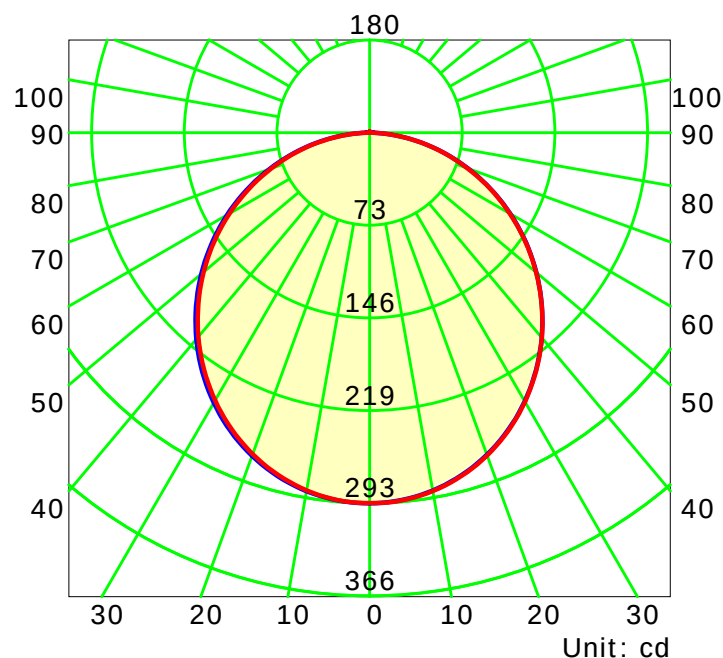
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.24

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

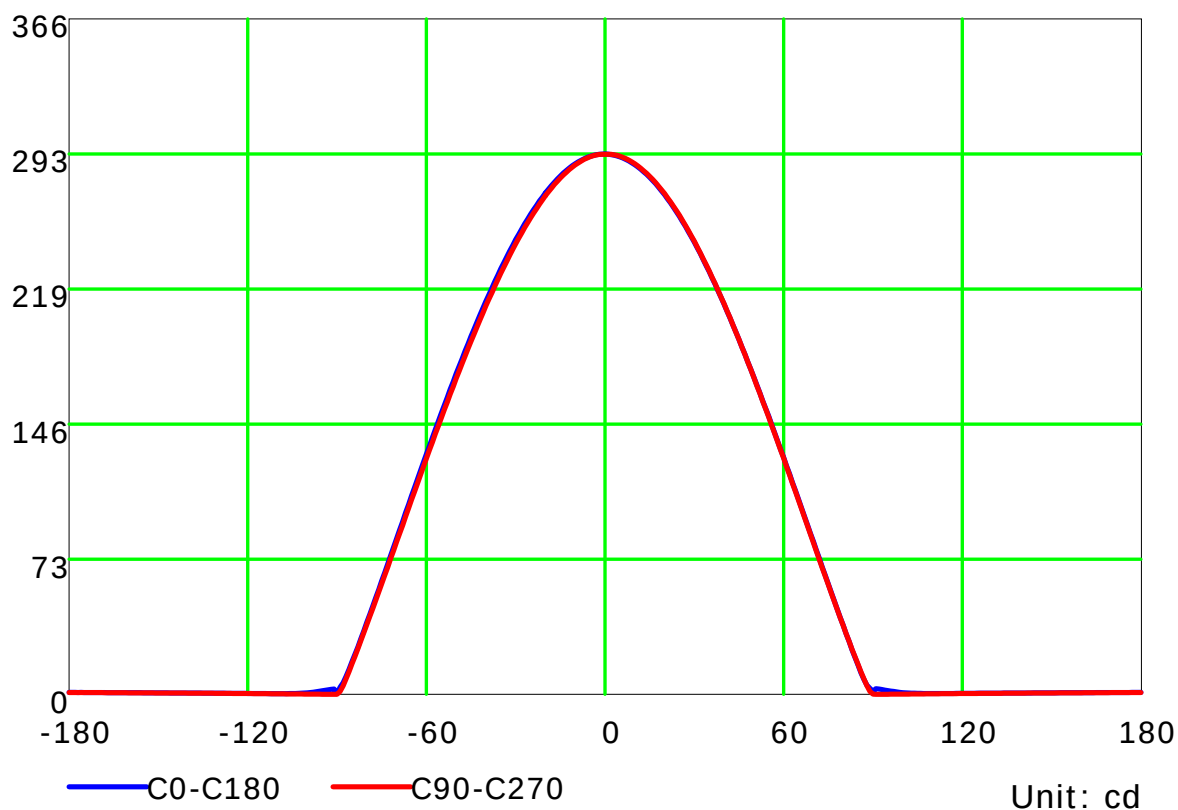
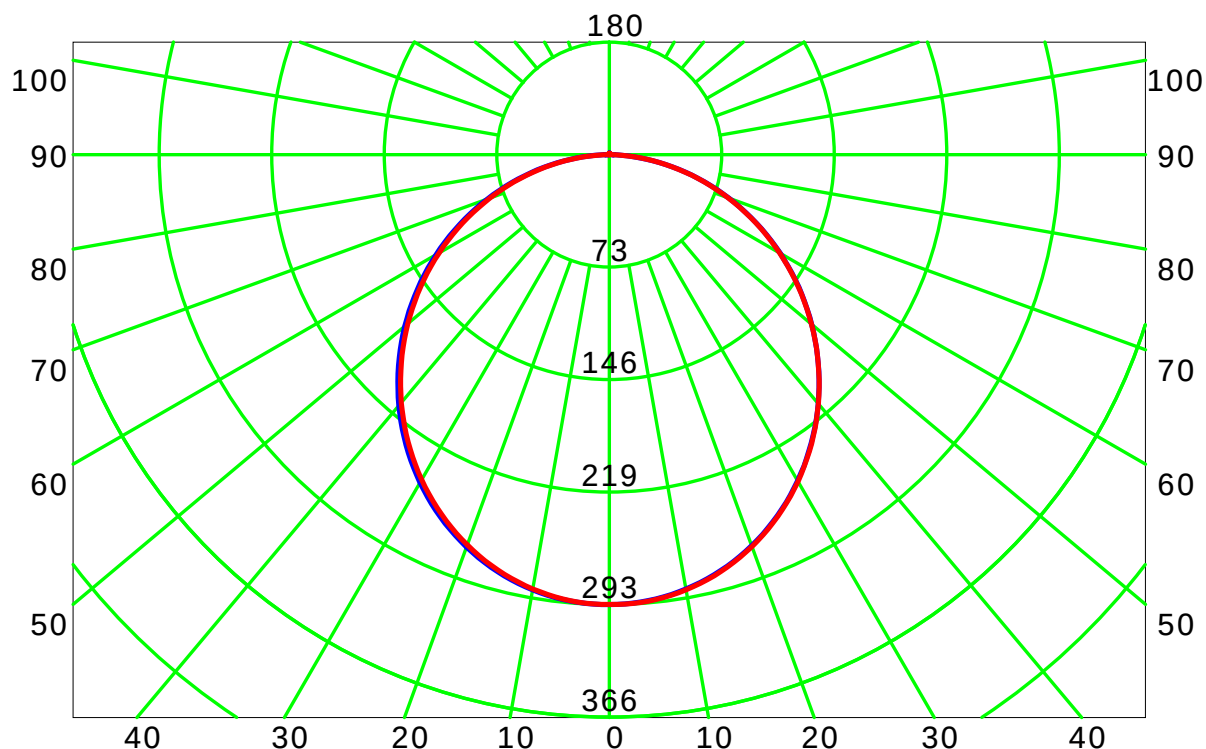
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°): 0.0-180.0: 1.0

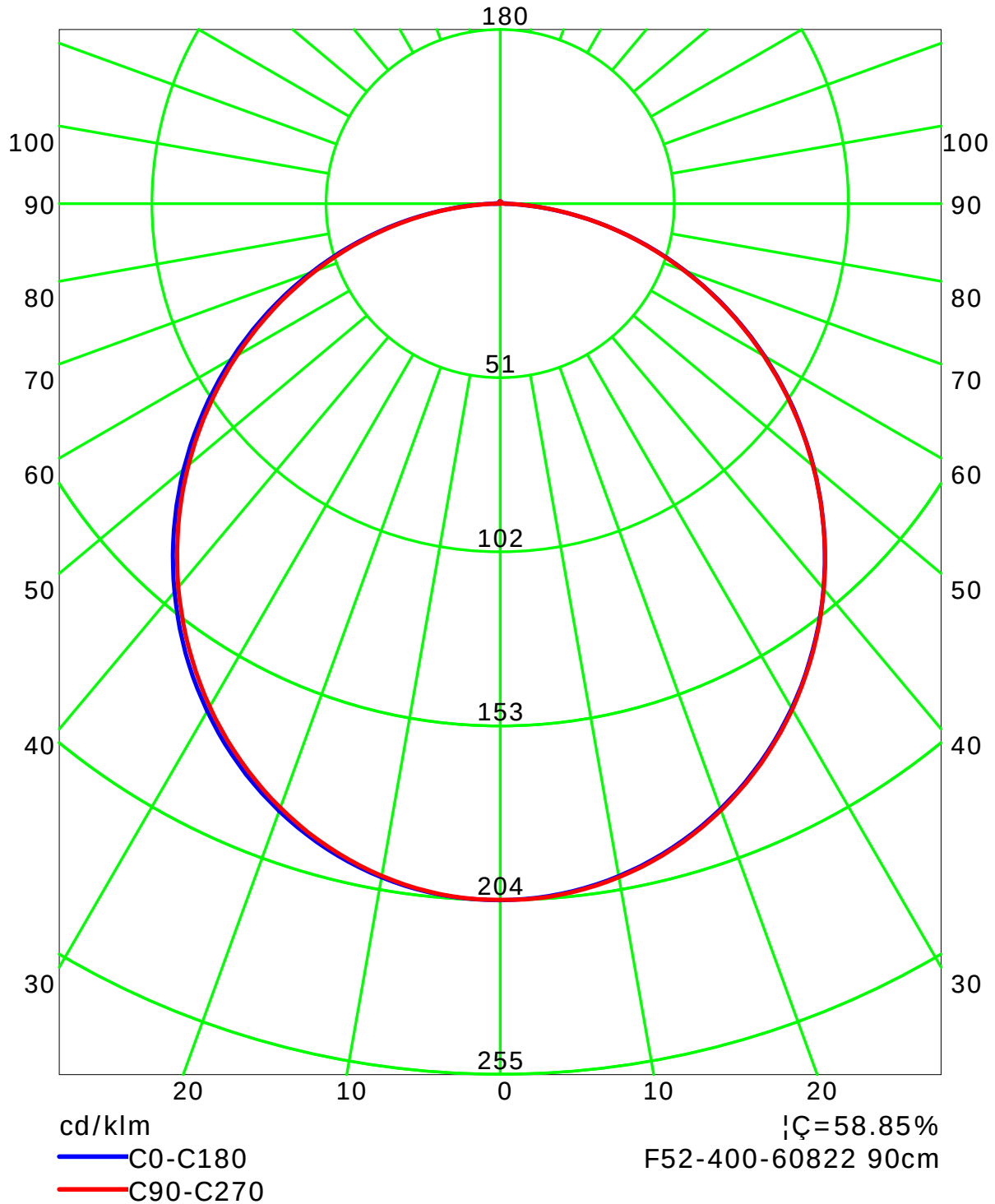
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

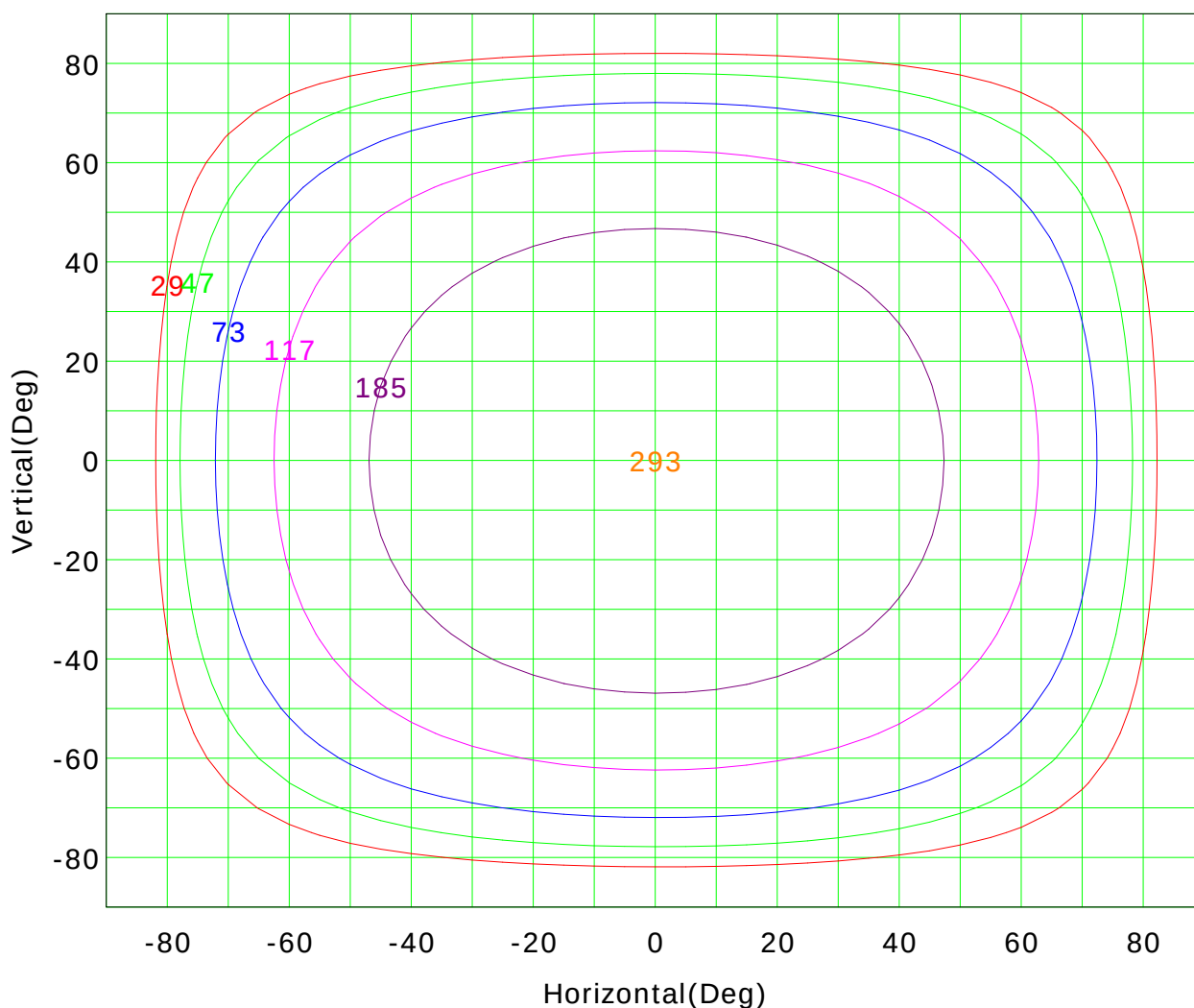
Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:

Isocandela (rectangle)



I_{max} (100%): 293 cd

— (10%):	29 cd	— (16%):	47 cd
— (25%):	73 cd	— (40%):	117 cd
— (63%):	185 cd	— (100%):	293 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

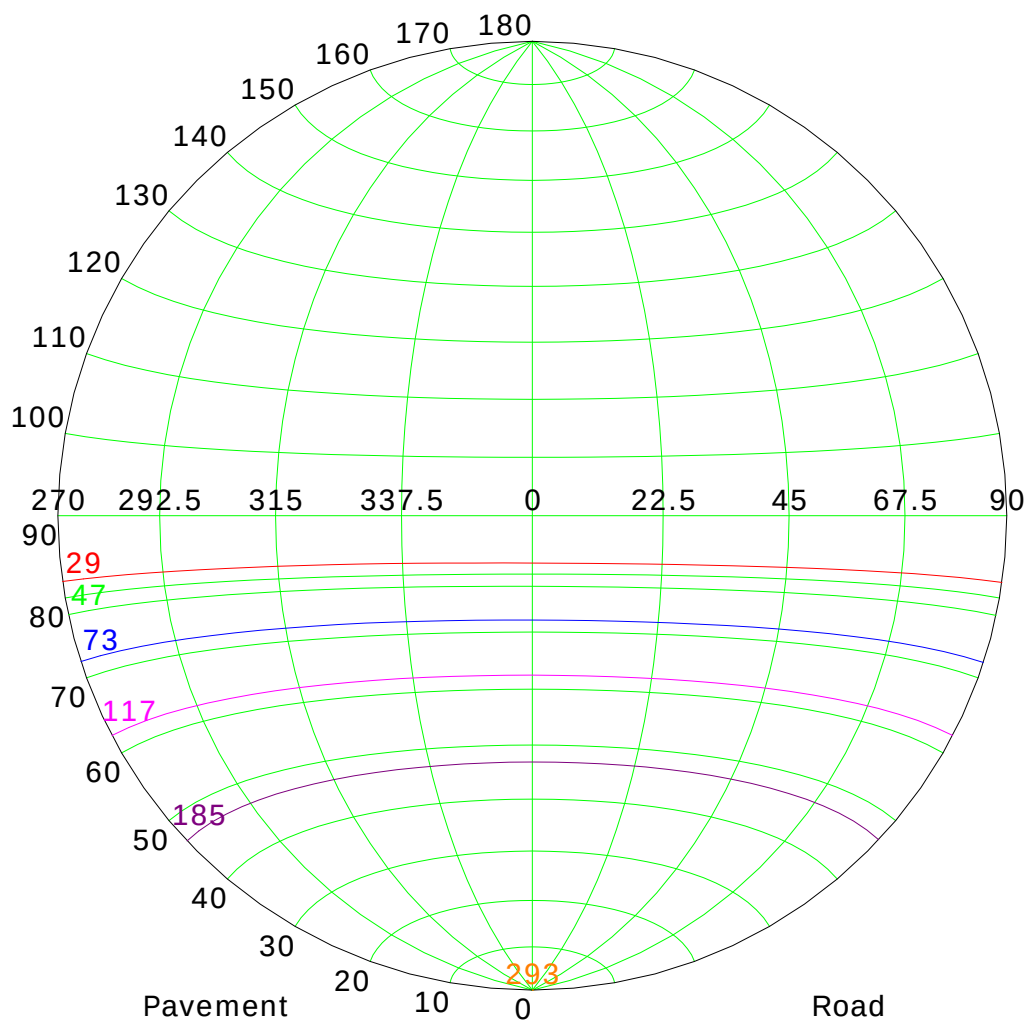
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 293 cd

(10%):	29 cd	(16%):	47 cd
(25%):	73 cd	(40%):	117 cd
(63%):	185 cd	(100%):	293 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

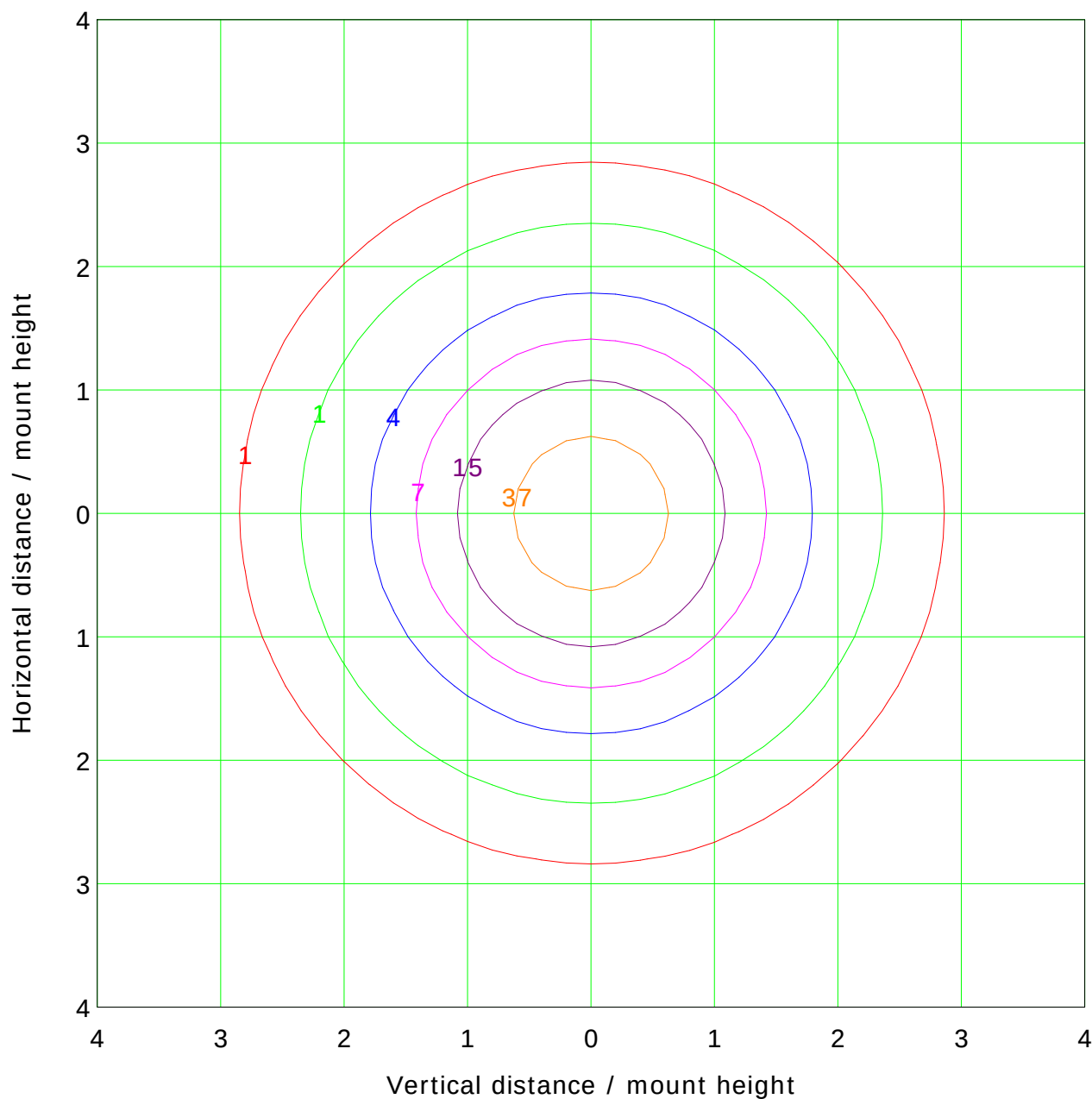
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

IsoLux Plot



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 7.979 m

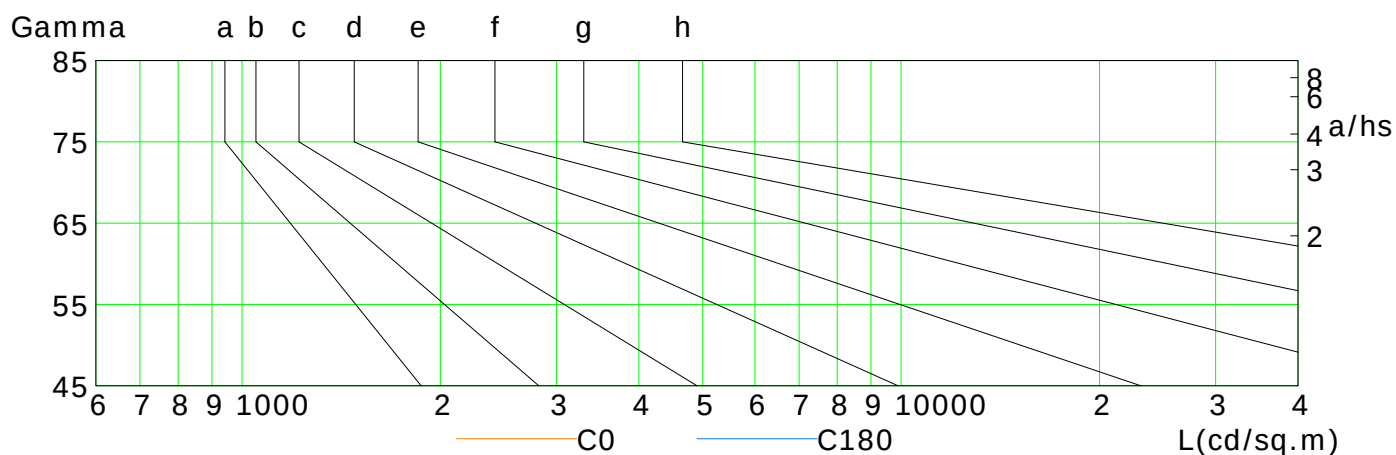
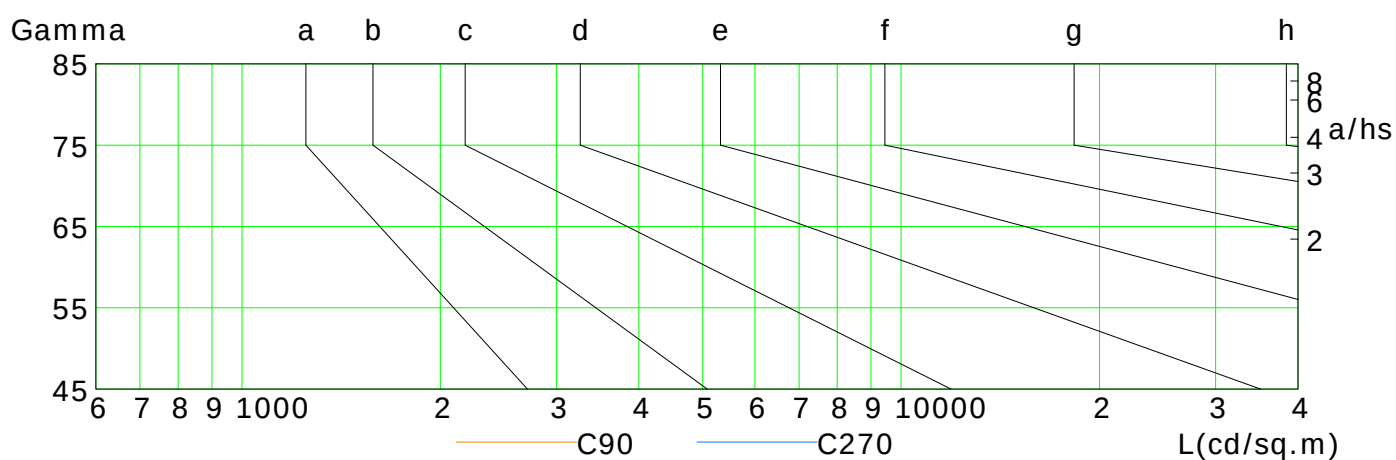
Humidity:

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	192	172	151	129	106	83	60	37	16
C90	192	172	150	128	105	82	60	37	16
C180	194	174	152	130	108	84	62	39	18
C270	192	171	150	128	105	83	60	38	17

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

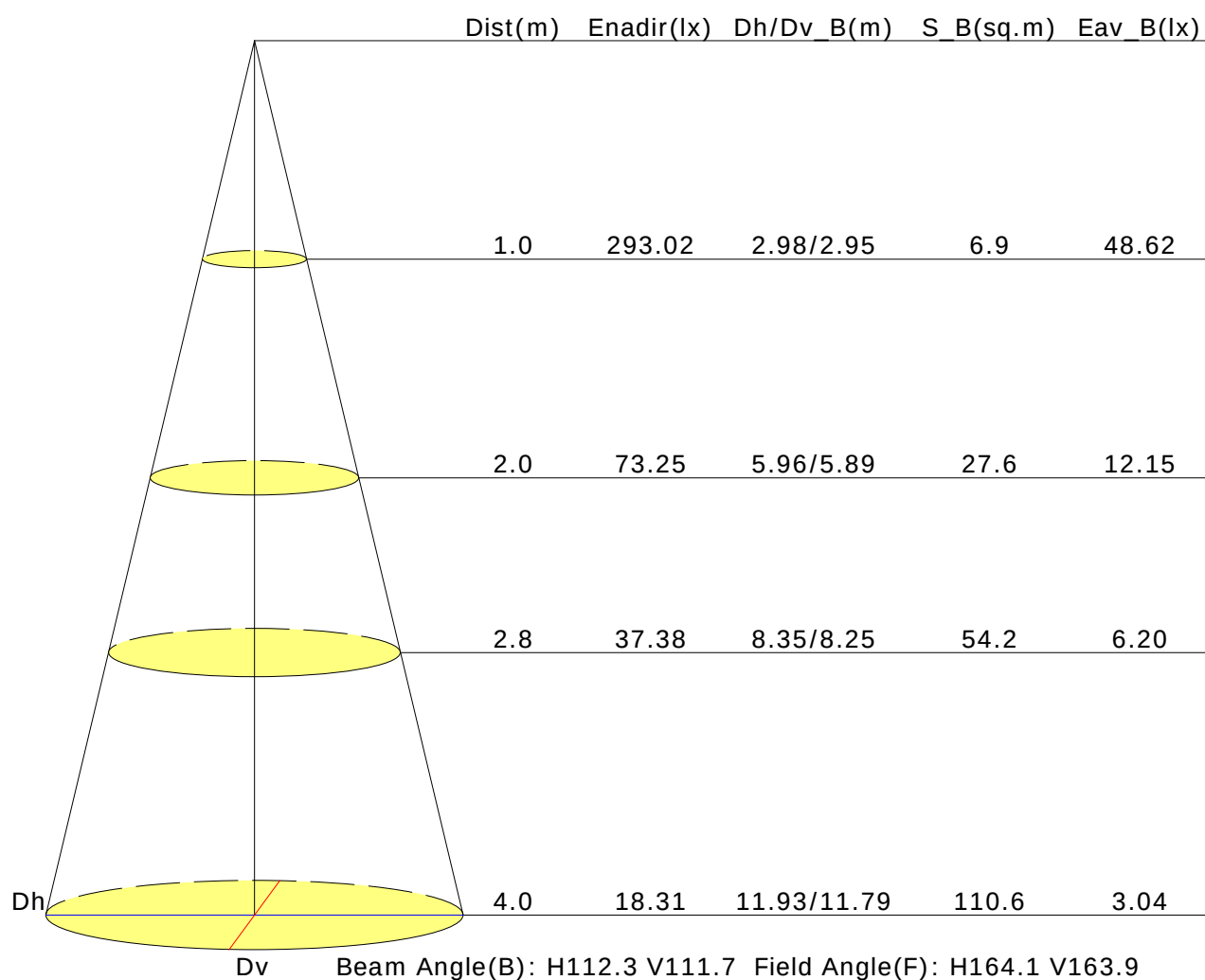
Test Device: GPM-1800B

Distance: 7.979 m

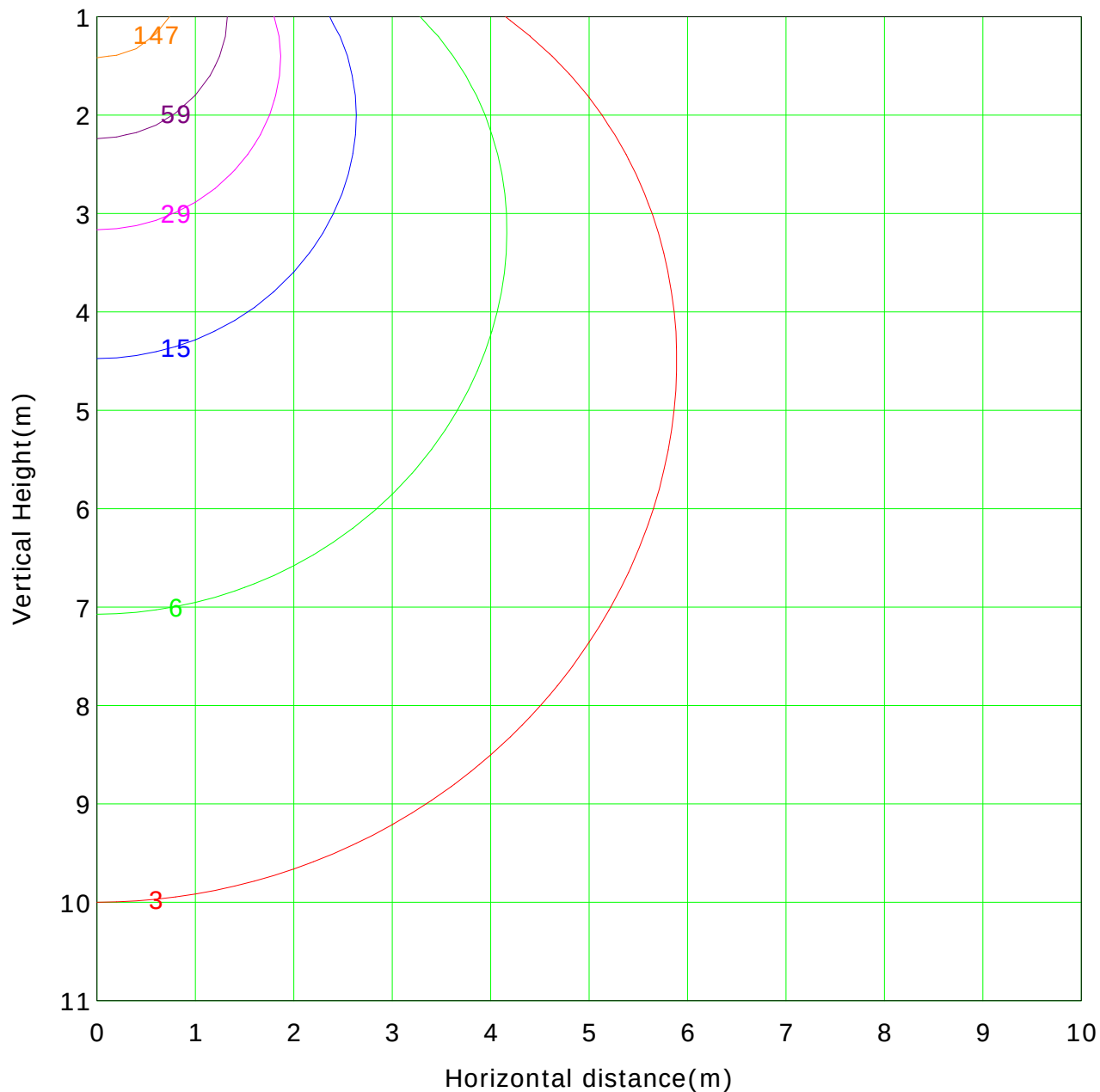
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 293.0 lx

— (1%): 2.9 lx	— (2%): 5.9 lx
— (5%): 14.7 lx	— (10%): 29.3 lx
— (20%): 58.6 lx	— (50%): 146.5 lx
— (100%): 293.0 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:

Report No.:

Test Time: 04/02/2021 14:06

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW04-06 + HS05 + LLD-06-CS

Lamp Description: F52-400-60822 90cm

Number of Lamps: 1

Lumens per Lamp: 1434 lm

Voltage: 24.0 V

Current: 0.530 A

Power: 12.71 W

Power Factor: 1.000

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 908.1 lm

Downward Ratio: 53.90%

Total Rated Lamp Lumens: 1434.0 lm

Efficiency: 63.32%

Upward Ratio: 9.43%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.2, 287.4, 247.1, 247.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.1, 149.0, 135.1, 135.3

Luminaire Efficacy Rating (LER): 71.50

Central Intensity: 207.45 cd

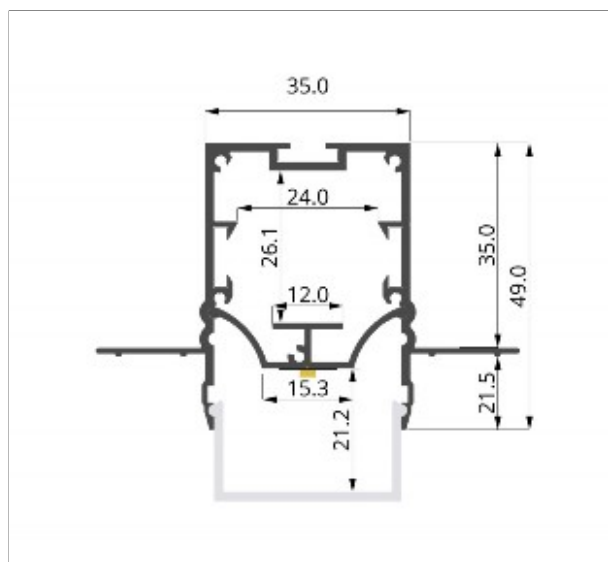
Max. Intensity: 210.59 cd

Pos of Max. Intensity: H270 V13

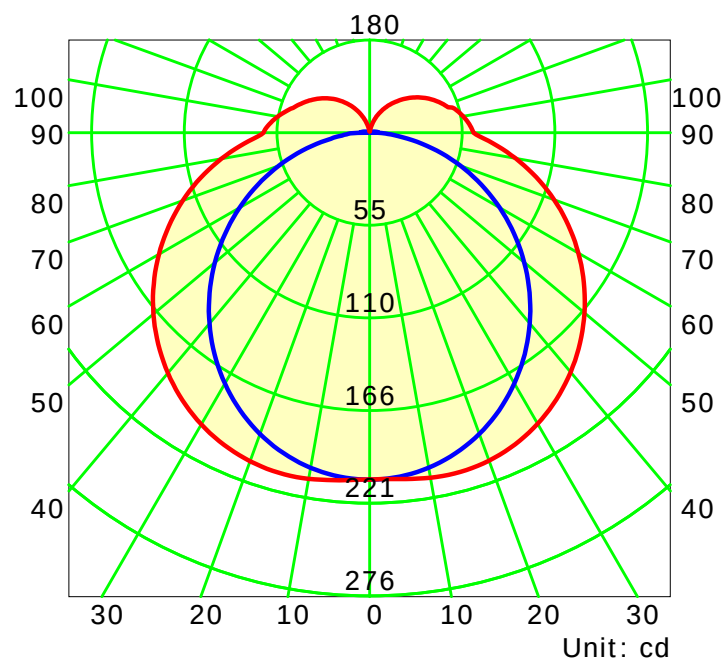
S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.44

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

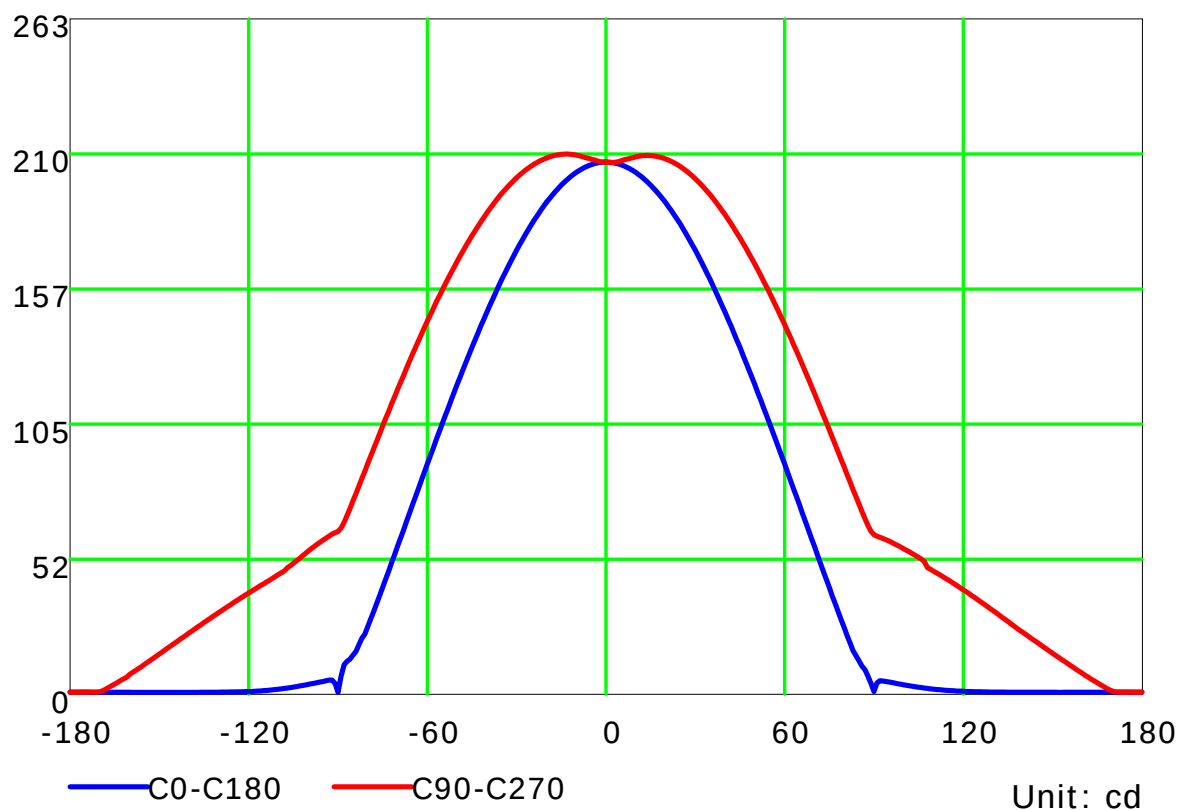
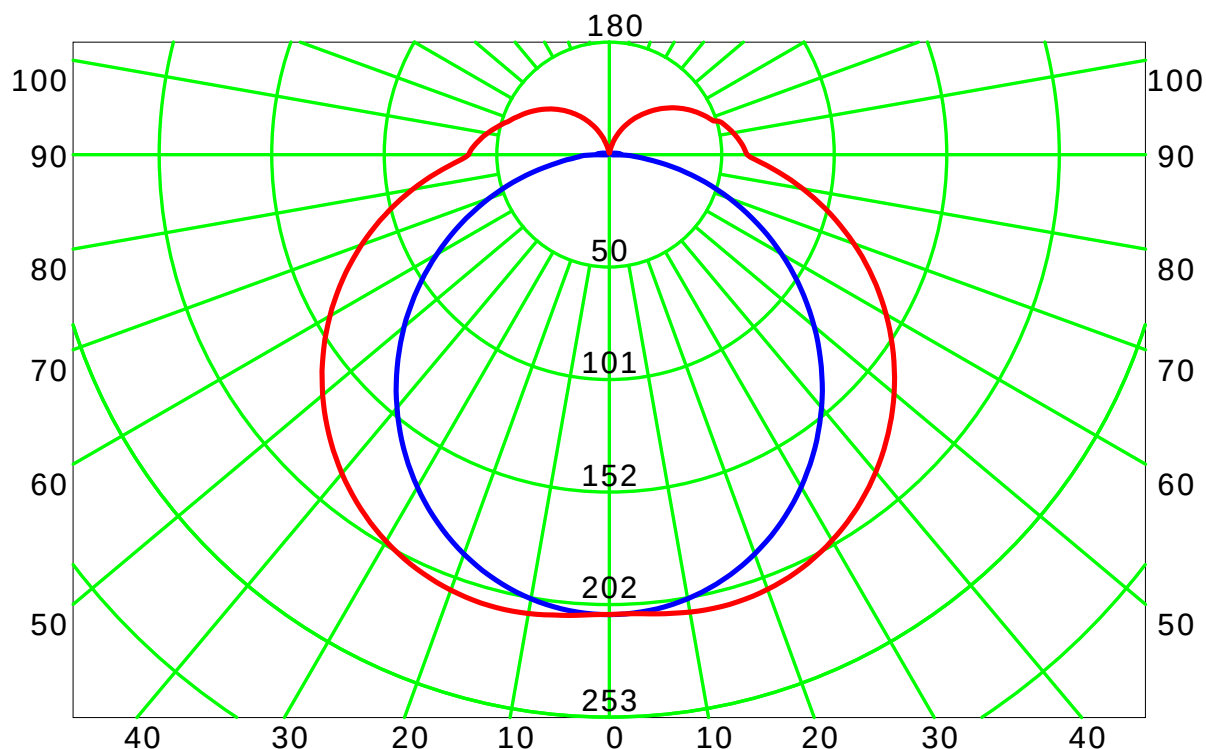
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°): 0.0-180.0: 1.0

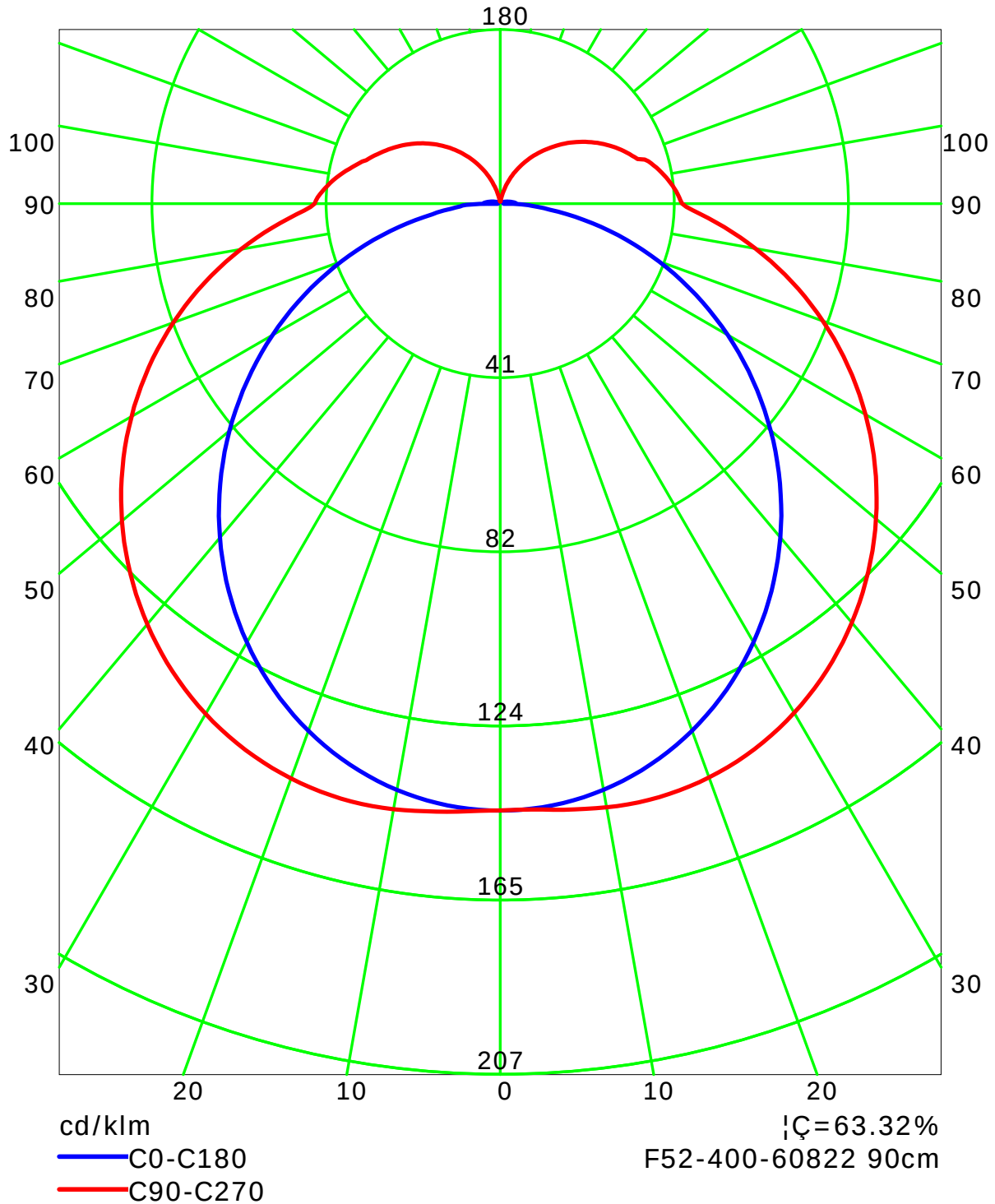
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

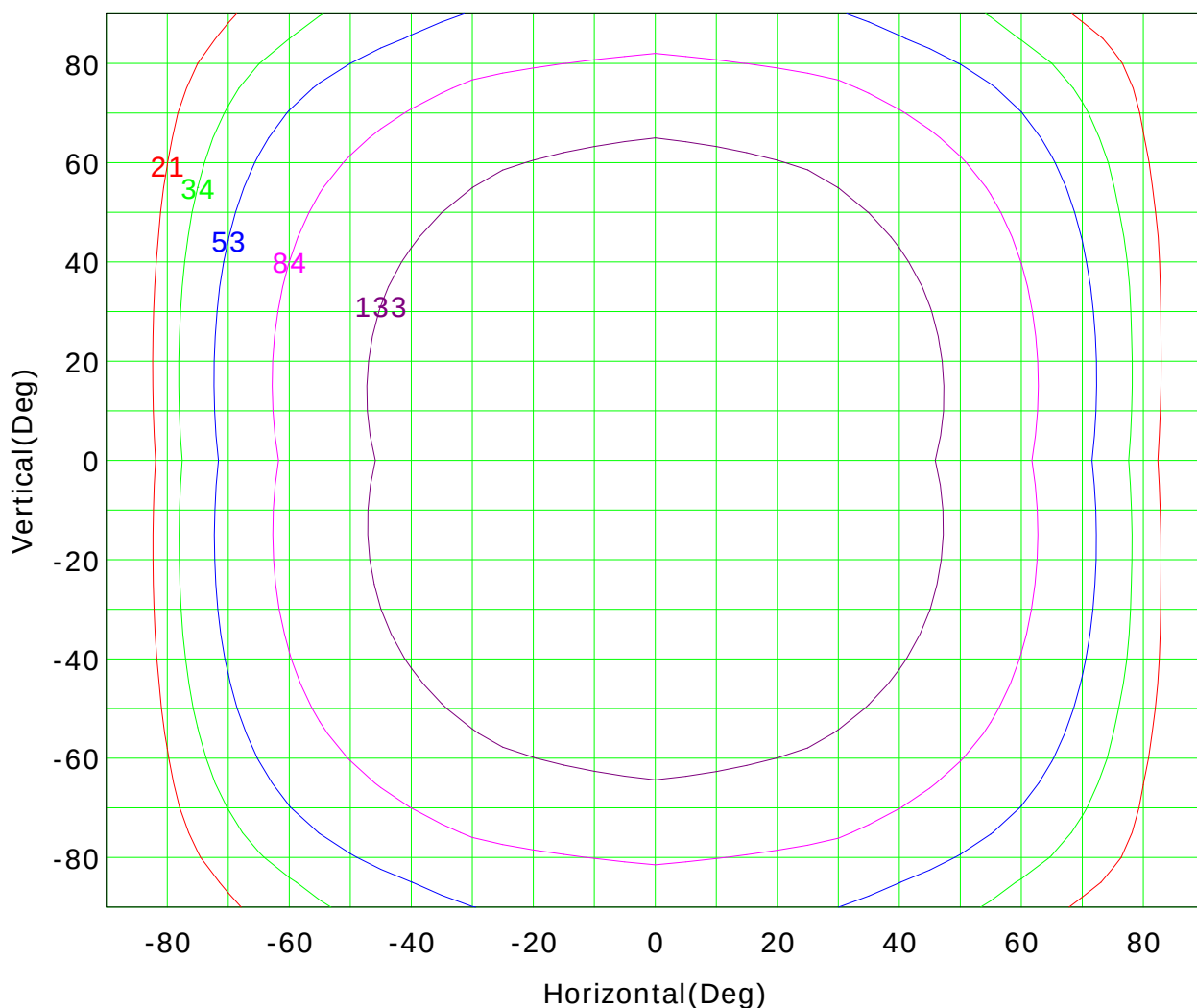
Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.979 m
 Humidity:
 Inspector:

Isocandela (rectangle)



I_{max} (100%): 211 cd

(10%):	21 cd	(16%):	34 cd
(25%):	53 cd	(40%):	84 cd
(63%):	133 cd	(100%):	211 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

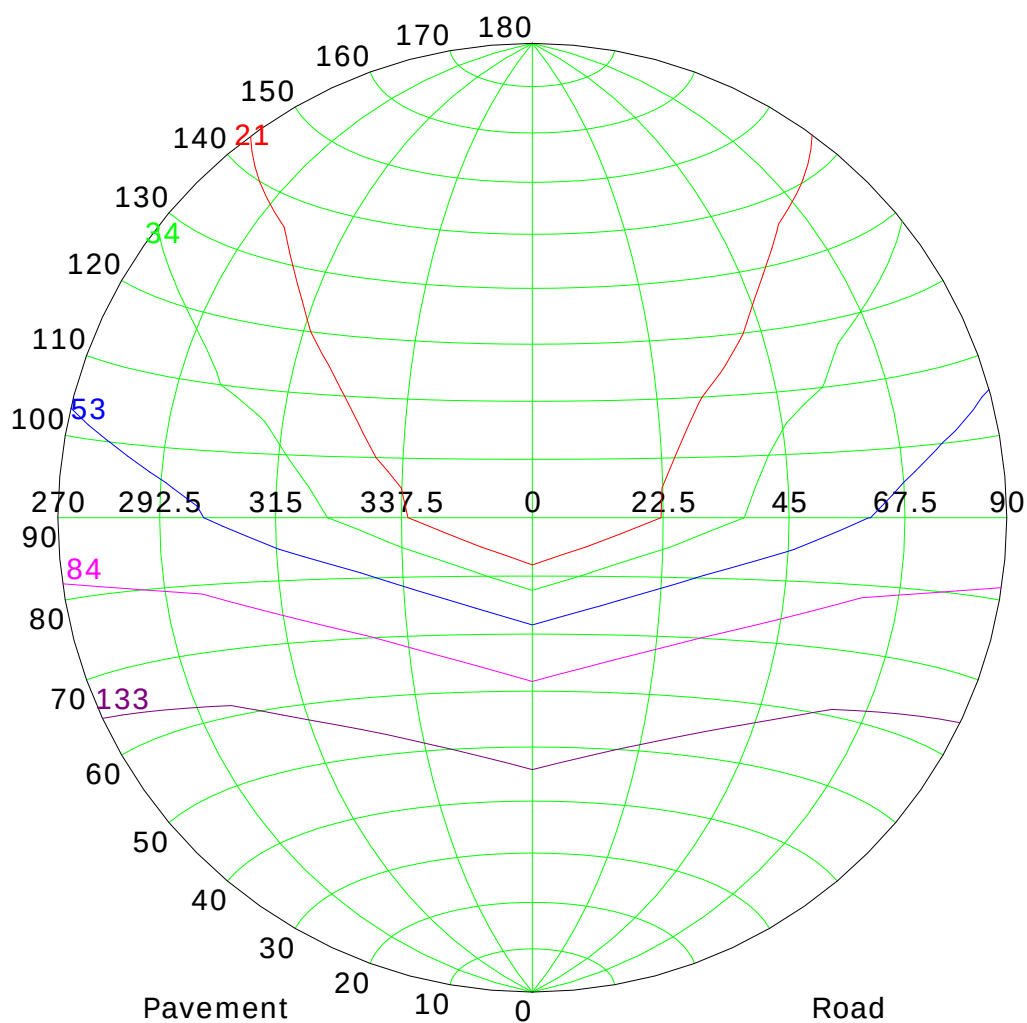
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 211 cd

(10%):	21 cd	(16%):	34 cd
(25%):	53 cd	(40%):	84 cd
(63%):	133 cd	(100%):	211 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

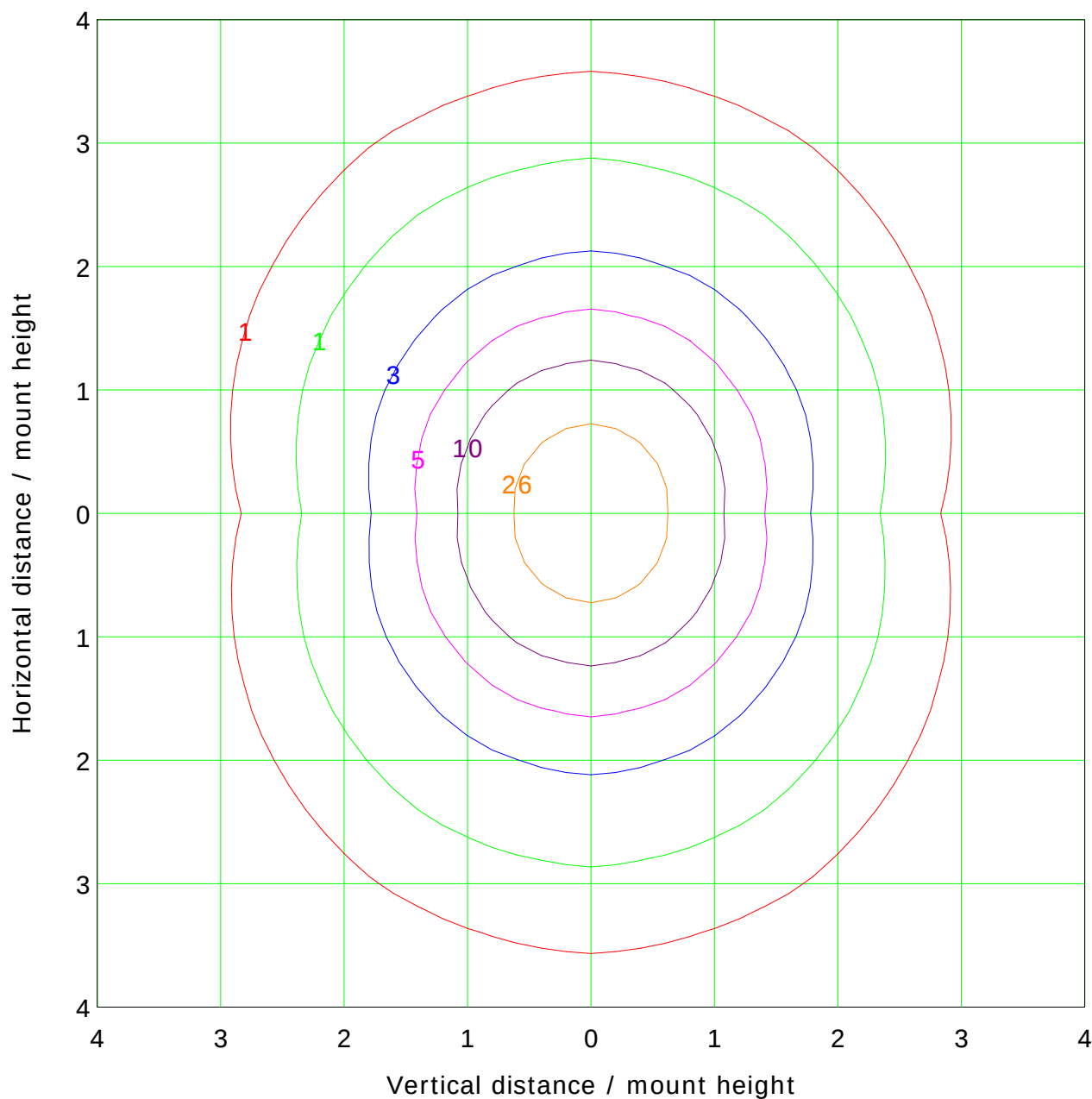
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 51.9 lx	
— (1%):	0.5 lx	— (2%):	1.0 lx
— (5%):	2.6 lx	— (10%):	5.2 lx
— (20%):	10.4 lx	— (50%):	25.9 lx
— (100%):	51.9 lx		

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 7.979 m

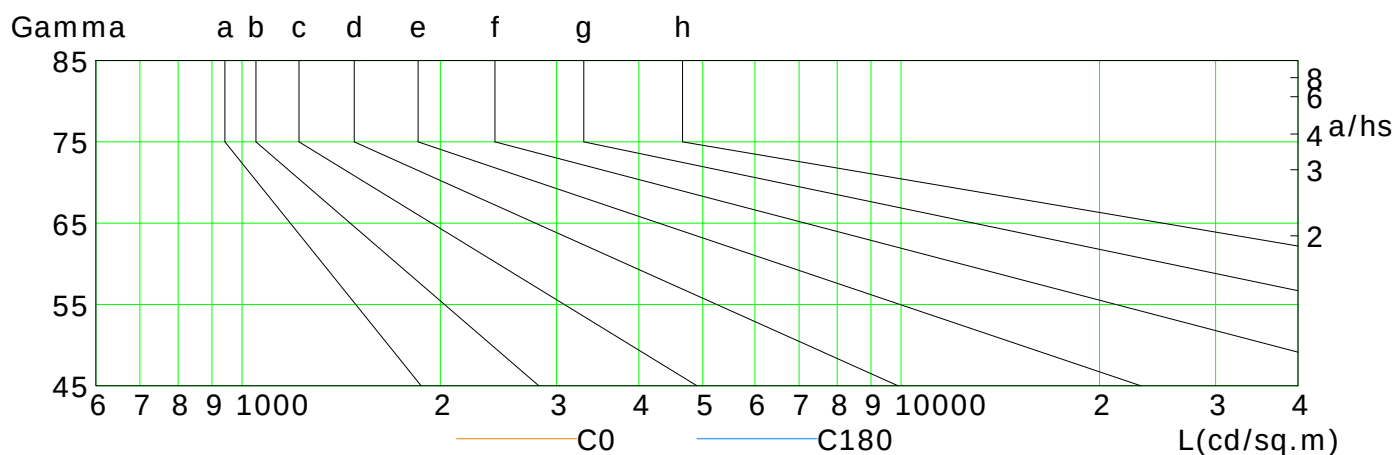
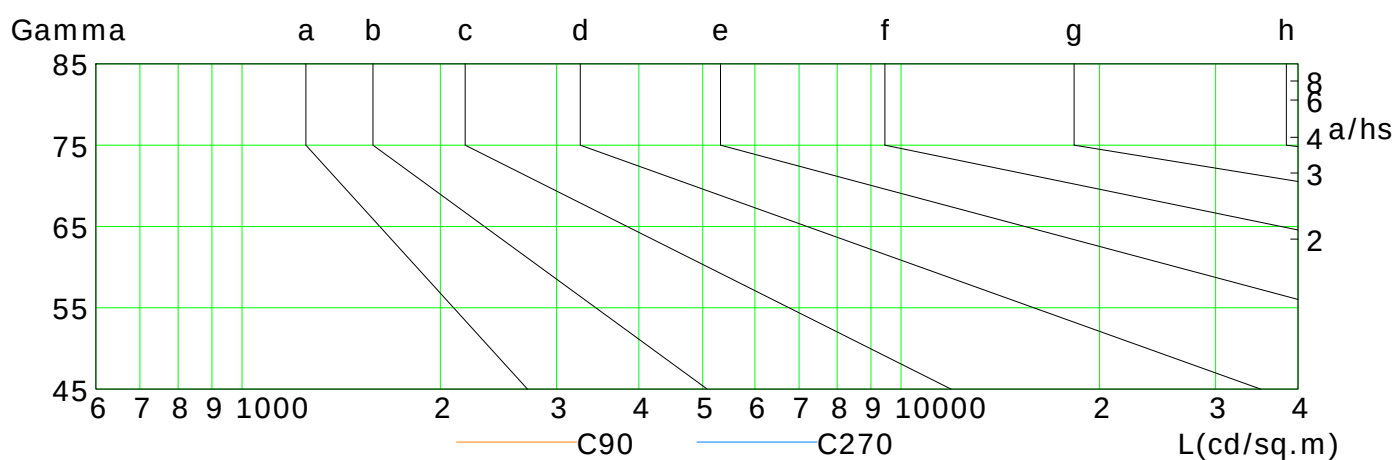
Humidity:

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	135	121	105	90	74	58	42	26	13
C90	178	168	156	144	131	117	103	89	74
C180	135	121	106	90	74	58	42	26	15
C270	179	169	158	145	133	119	105	90	75

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

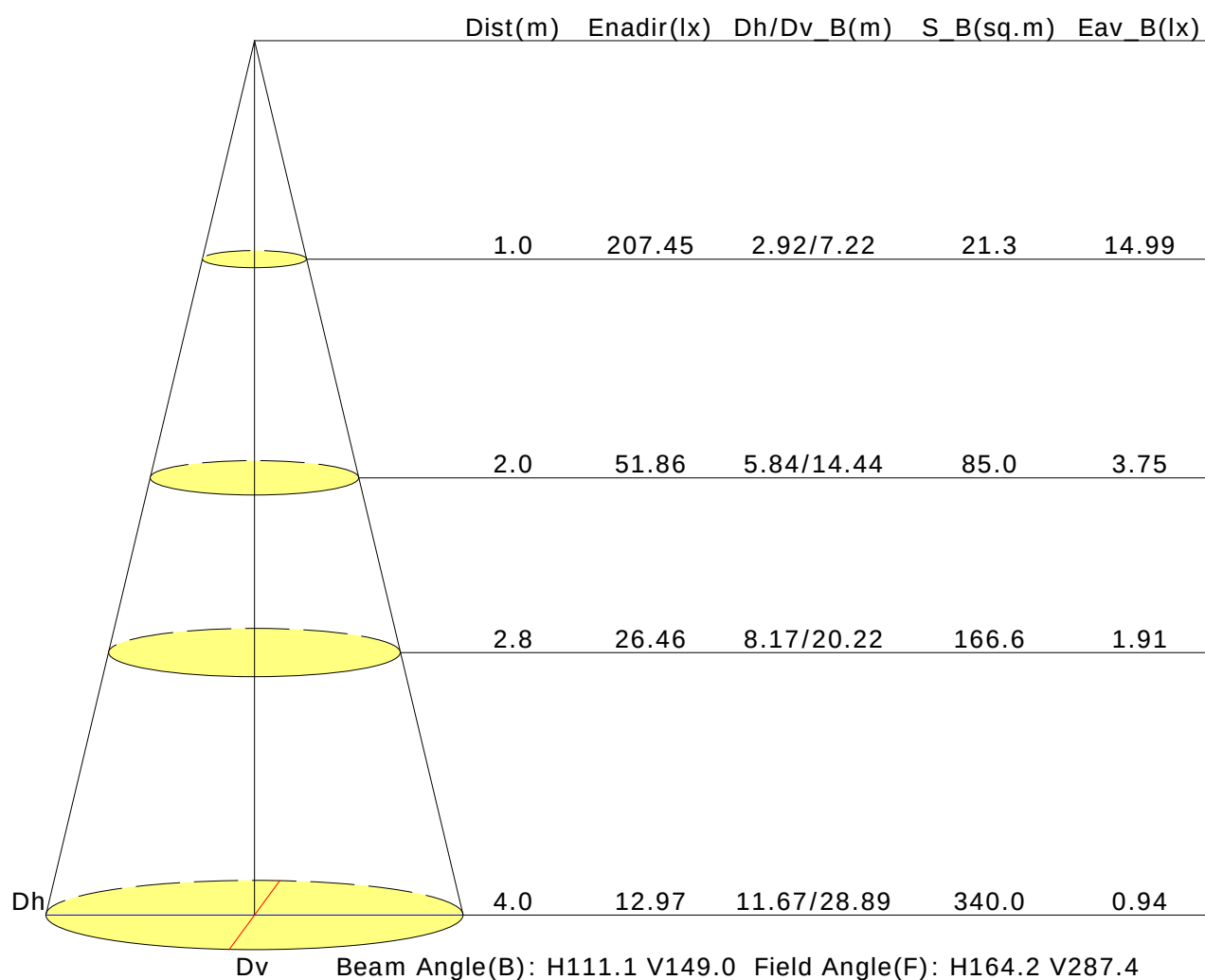
Test Device: GPM-1800B

Distance: 7.979 m

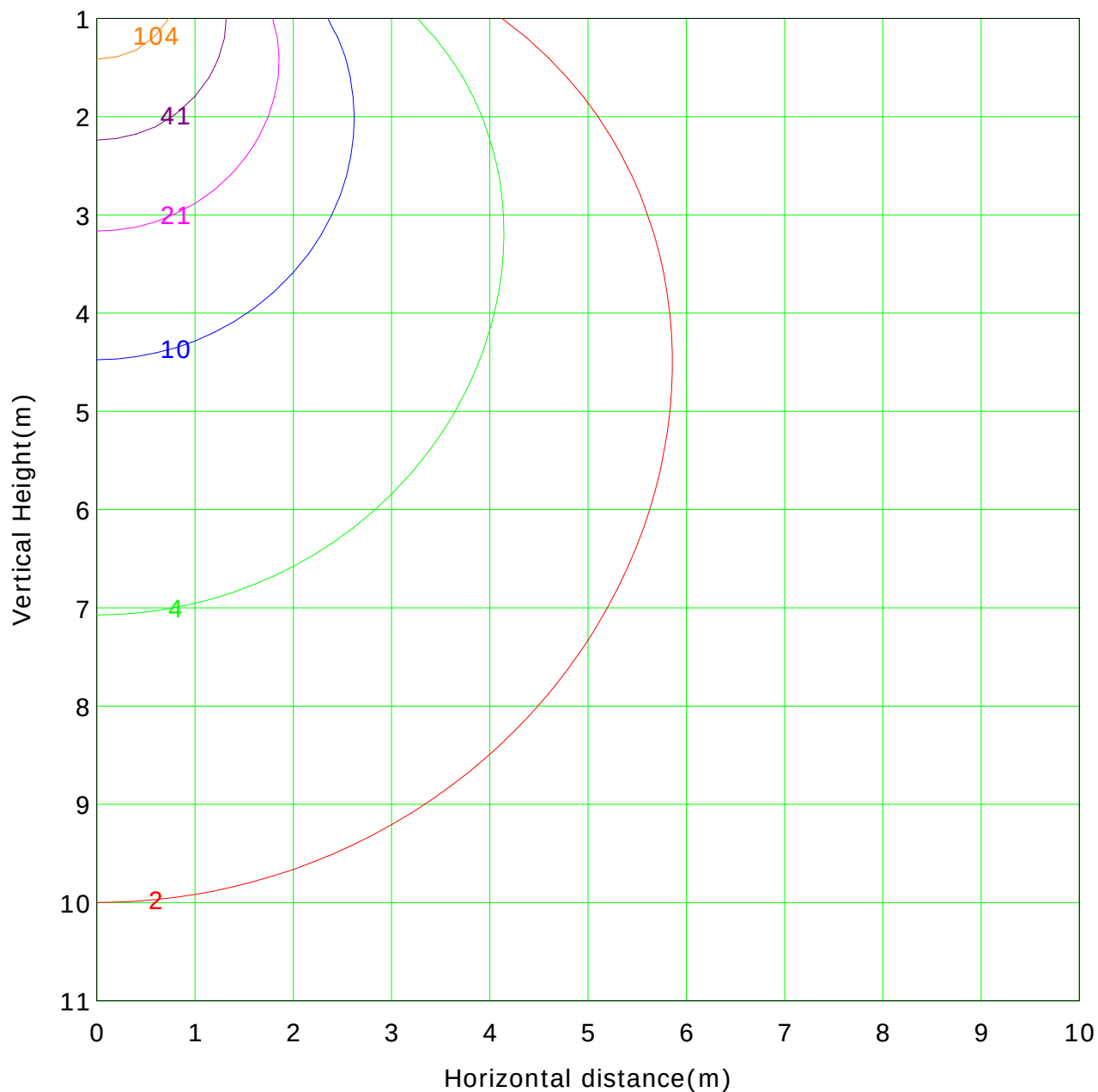
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 207.4 lx

(1%): 2.1 lx	(2%): 4.1 lx
(5%): 10.4 lx	(10%): 20.7 lx
(20%): 41.5 lx	(50%): 103.7 lx
(100%): 207.4 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:

Report No.:

Test Time: 19/01/2021 16:16

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW04-06 + LLD-06-XK-L1

Lamp Description: F52-400-60822 90cm

Number of Lamps: 1

Lumens per Lamp: 1434 lm

Voltage: 24.0 V

Current: 0.527 A

Power: 12.65 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 1196.4 lm

Downward Ratio: 83.20%

Total Rated Lamp Lumens: 1434.0 lm

Efficiency: 83.43%

Upward Ratio: 0.23%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.3, 123.6, 119.7, 120.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.7, 51.5, 62.9, 62.3

Luminaire Efficacy Rating (LER): 94.63

Central Intensity: 780.41 cd

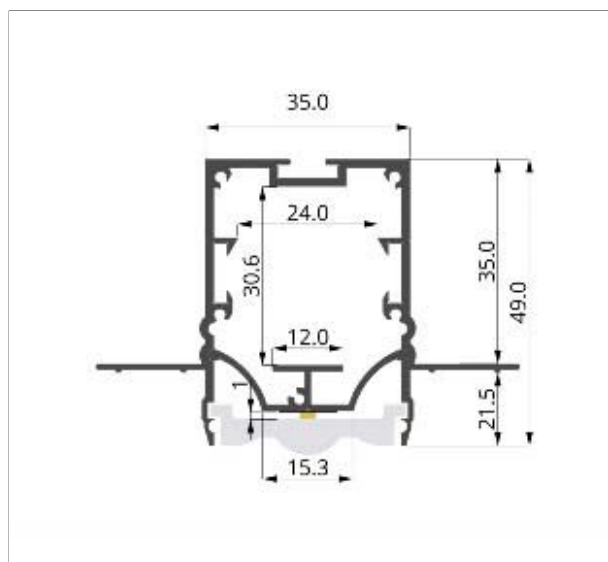
Max. Intensity: 780.87 cd

Pos of Max. Intensity: H10 V3

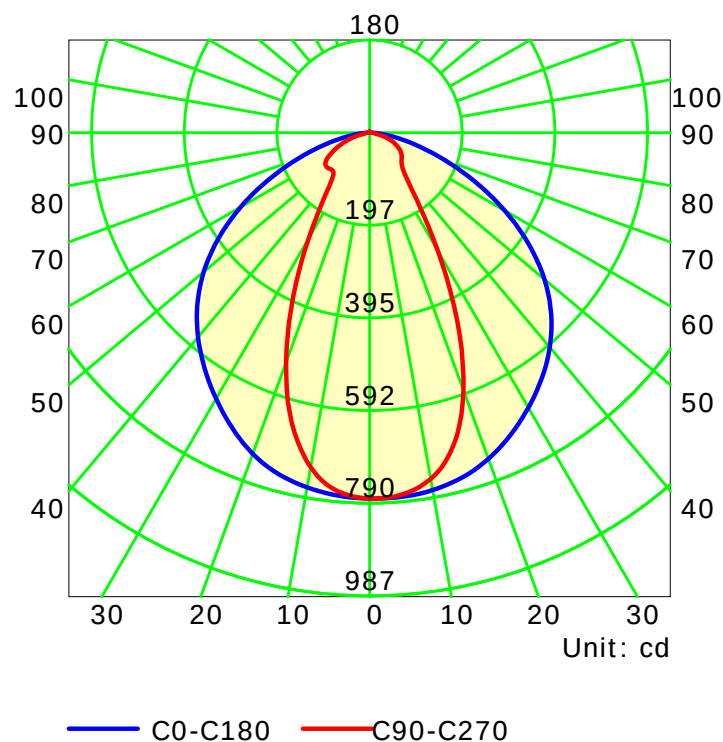
S/MH(C0/C180): 1.27

S/MH(C90/C270): 0.82

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

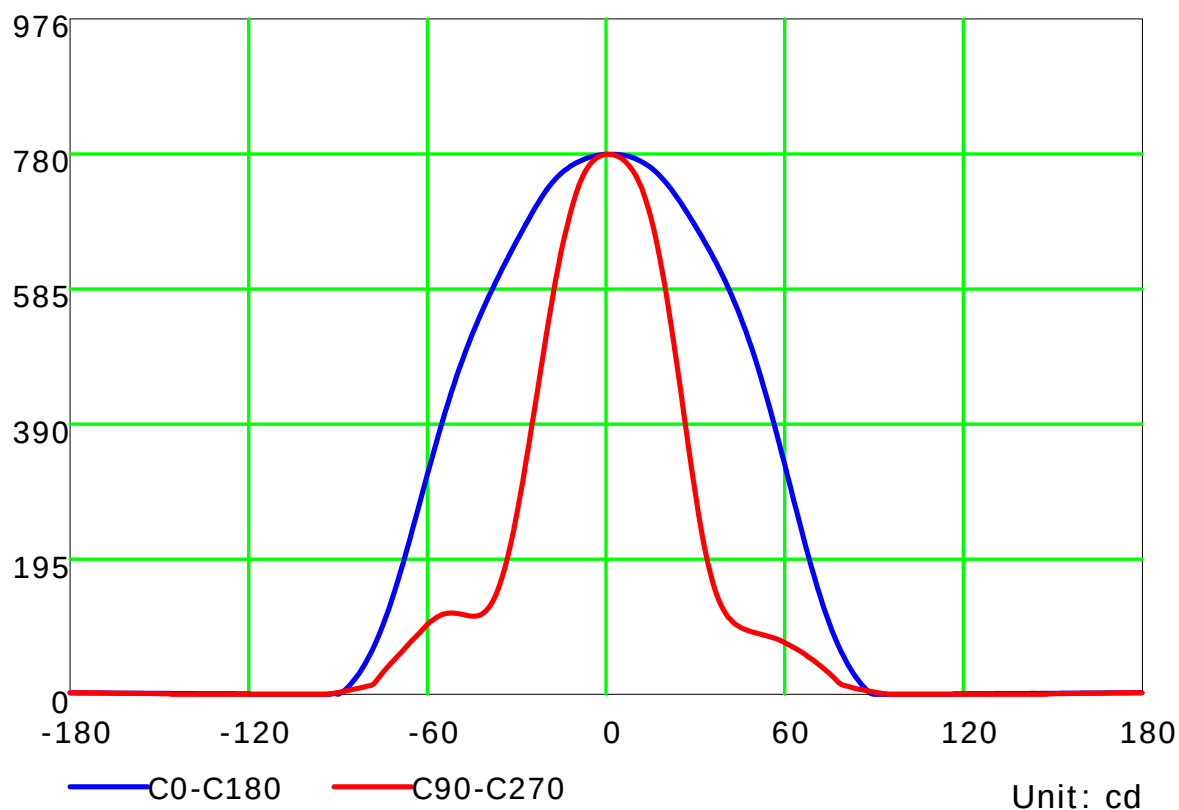
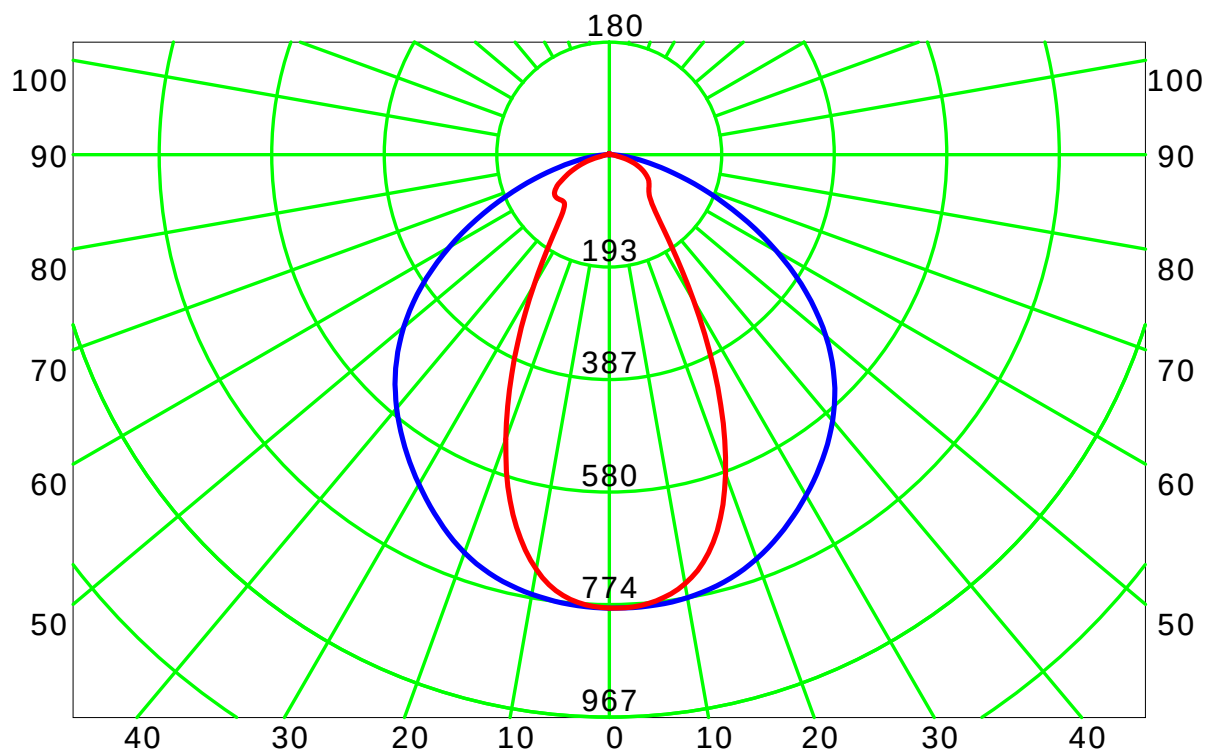
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

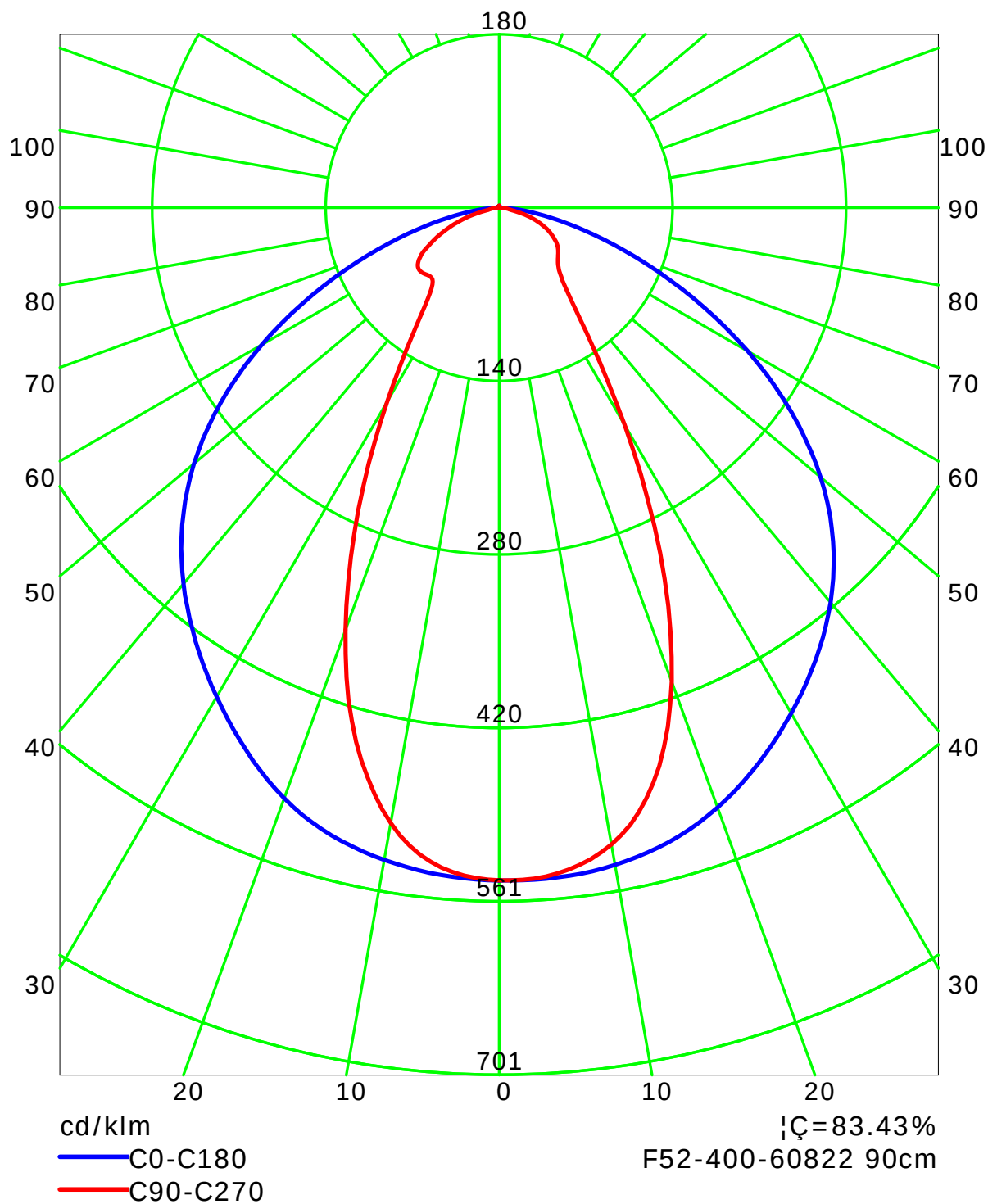
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

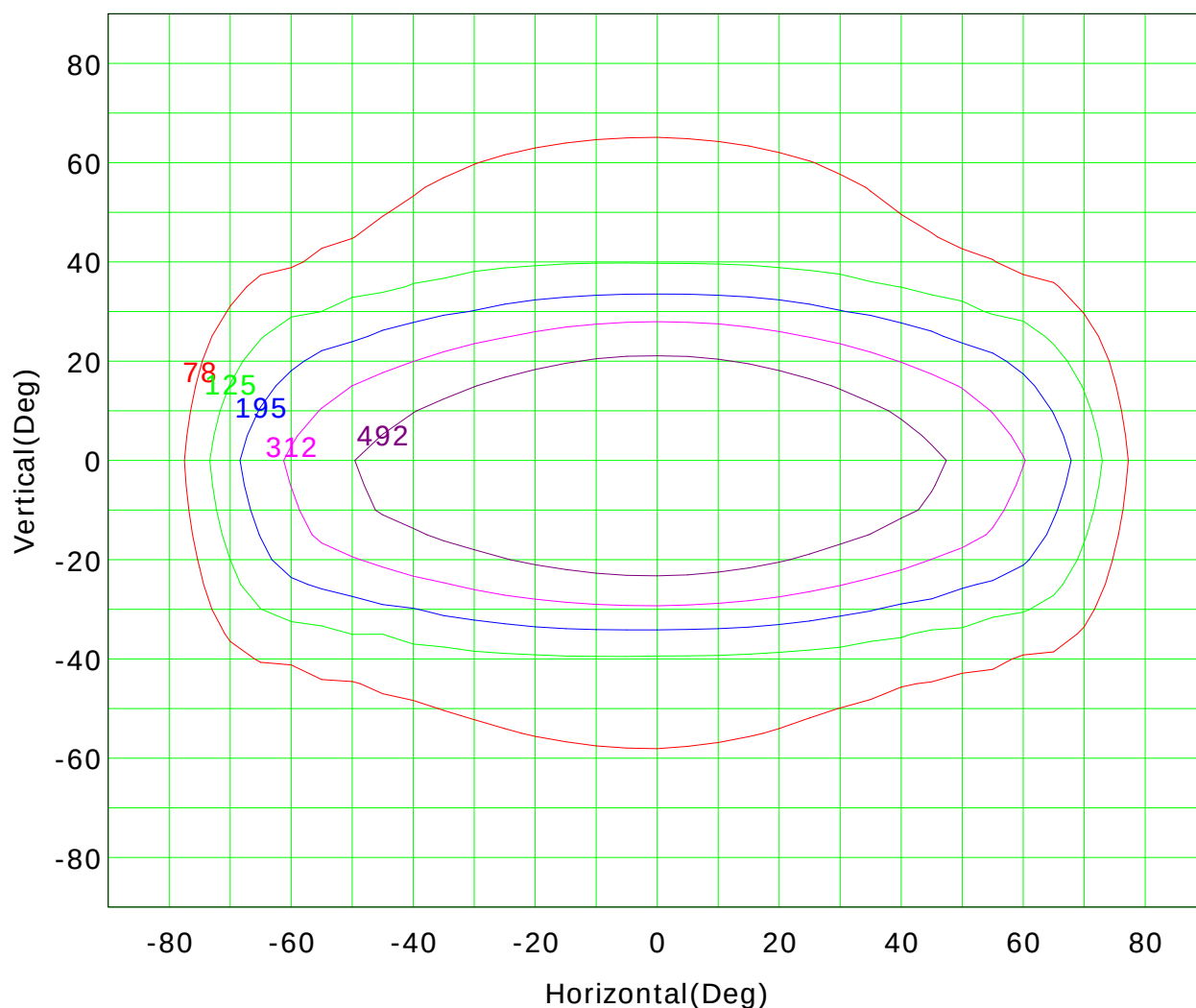
Luminous Intensity Distribution Curve(cd / klm)



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.979 m
 Humidity:
 Inspector:

Isocandela (rectangle)



I_{max} (100%): 781 cd

(10%):	78 cd	(16%):	125 cd
(25%):	195 cd	(40%):	312 cd
(63%):	492 cd	(100%):	781 cd

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

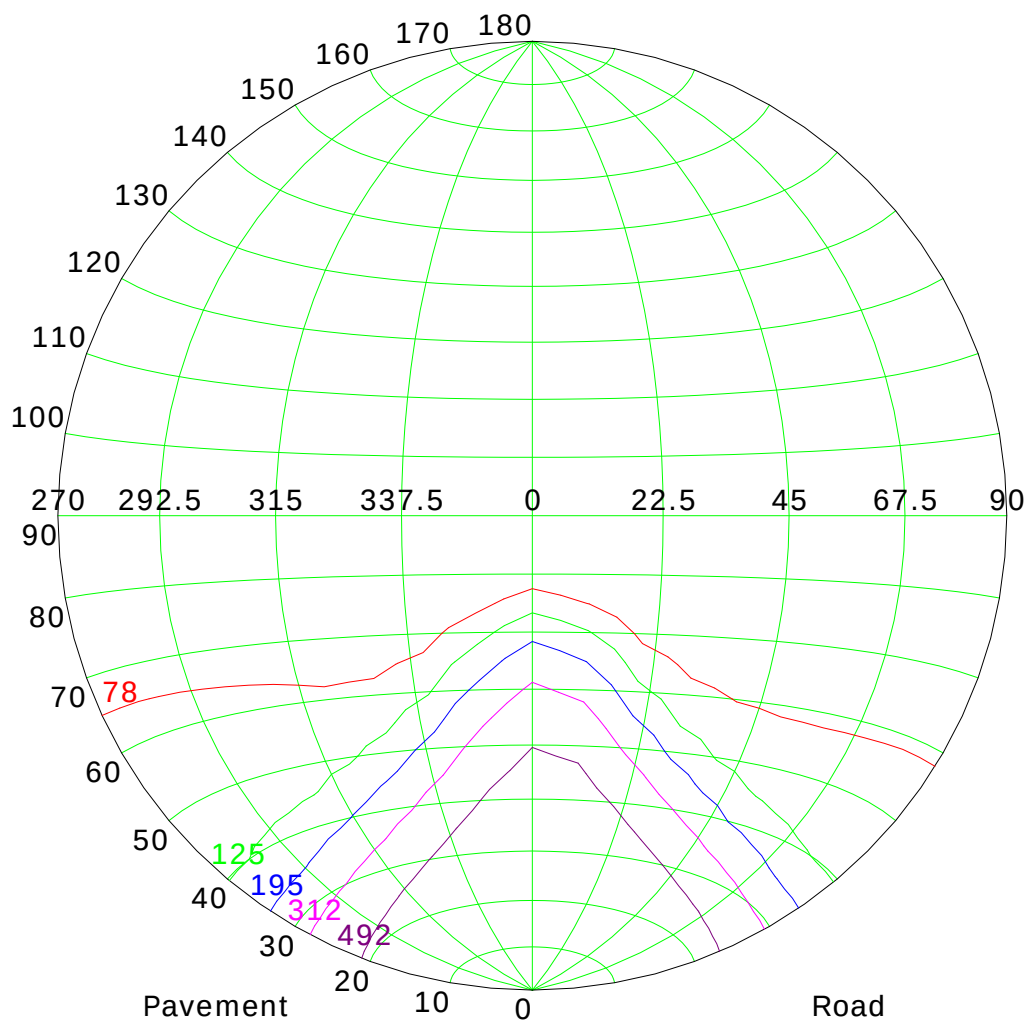
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 781 cd

(10%):	78 cd	(16%):	125 cd
(25%):	195 cd	(40%):	312 cd
(63%):	492 cd	(100%):	781 cd

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

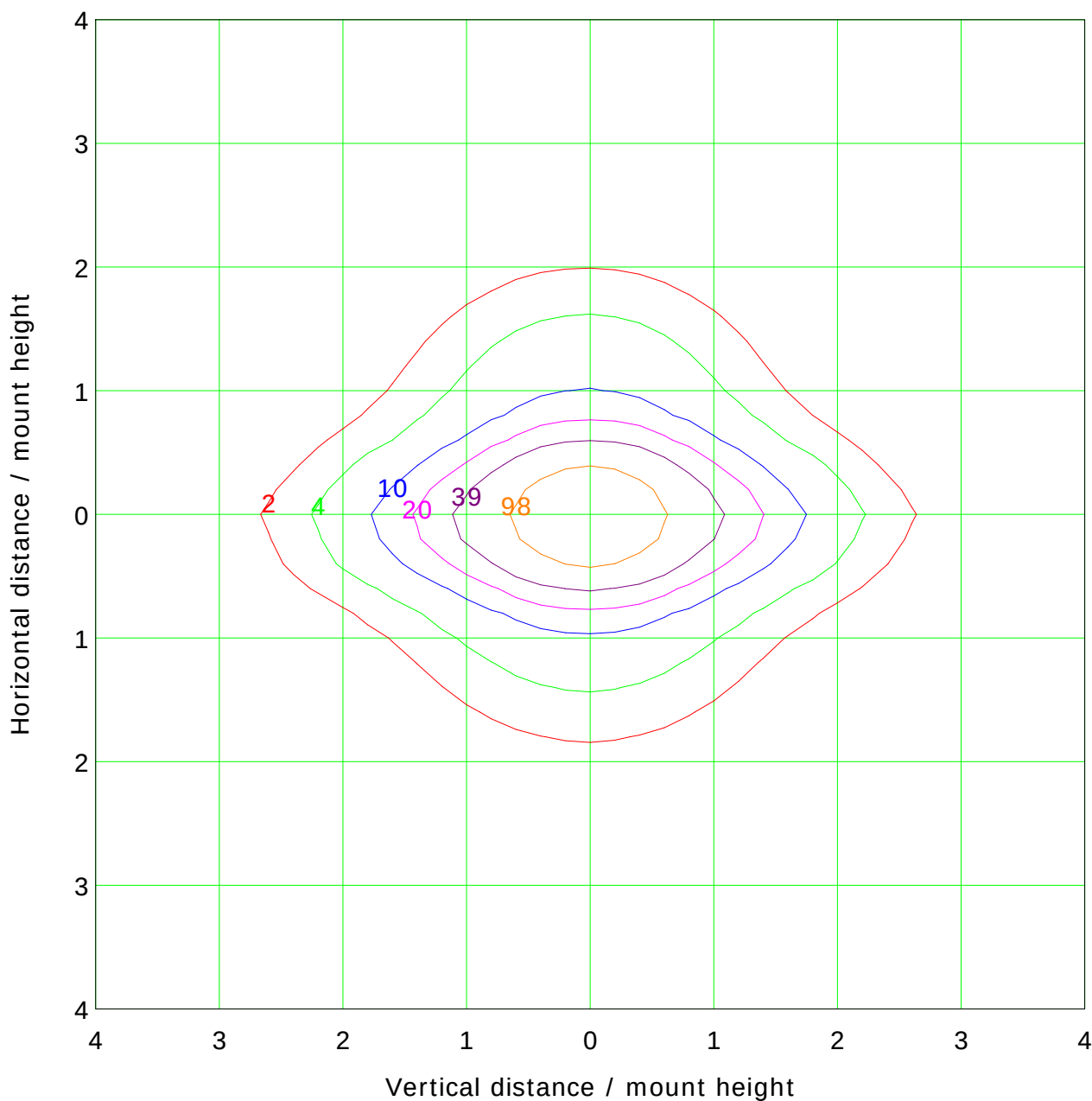
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 195.2 lx	
— (1%):	2.0 lx	— (2%):	3.9 lx
— (5%):	9.8 lx	— (10%):	19.5 lx
— (20%):	39.0 lx	— (50%):	97.6 lx
— (100%):	195.2 lx		

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

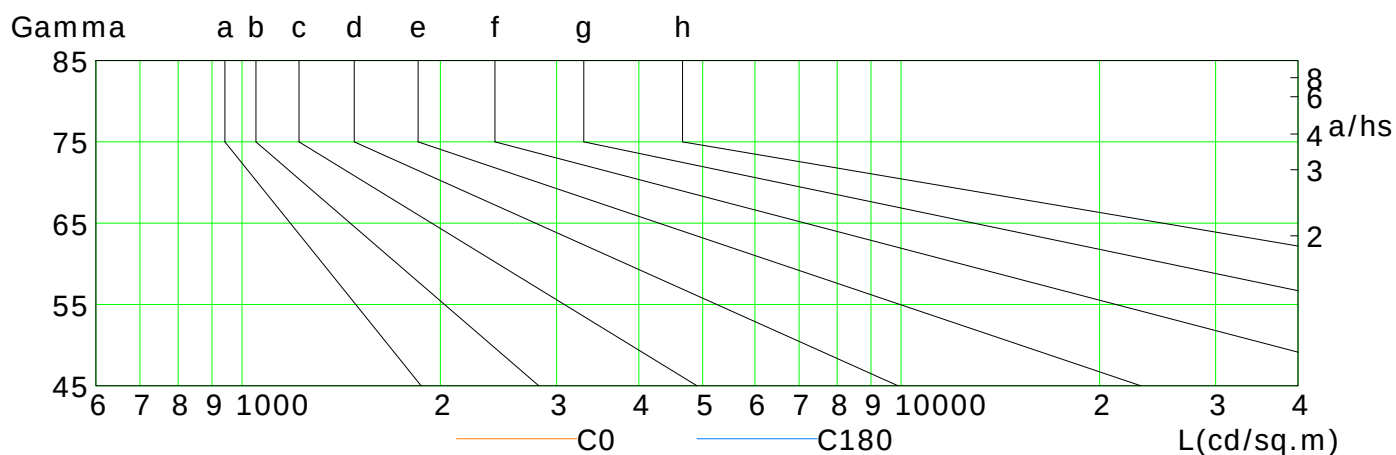
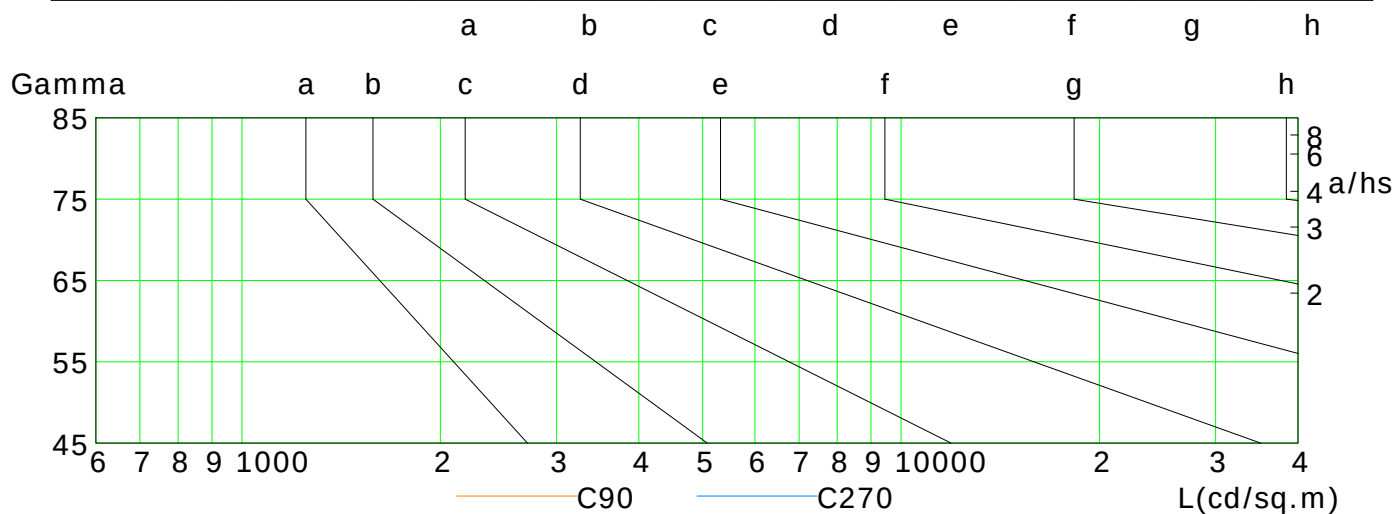
Distance: 7.979 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	547	487	414	333	248	170	103	53	19
C90	97	89	83	75	63	48	30	13	7
C180	520	462	394	318	239	163	99	52	19
C270	113	117	115	101	79	55	31	12	7

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

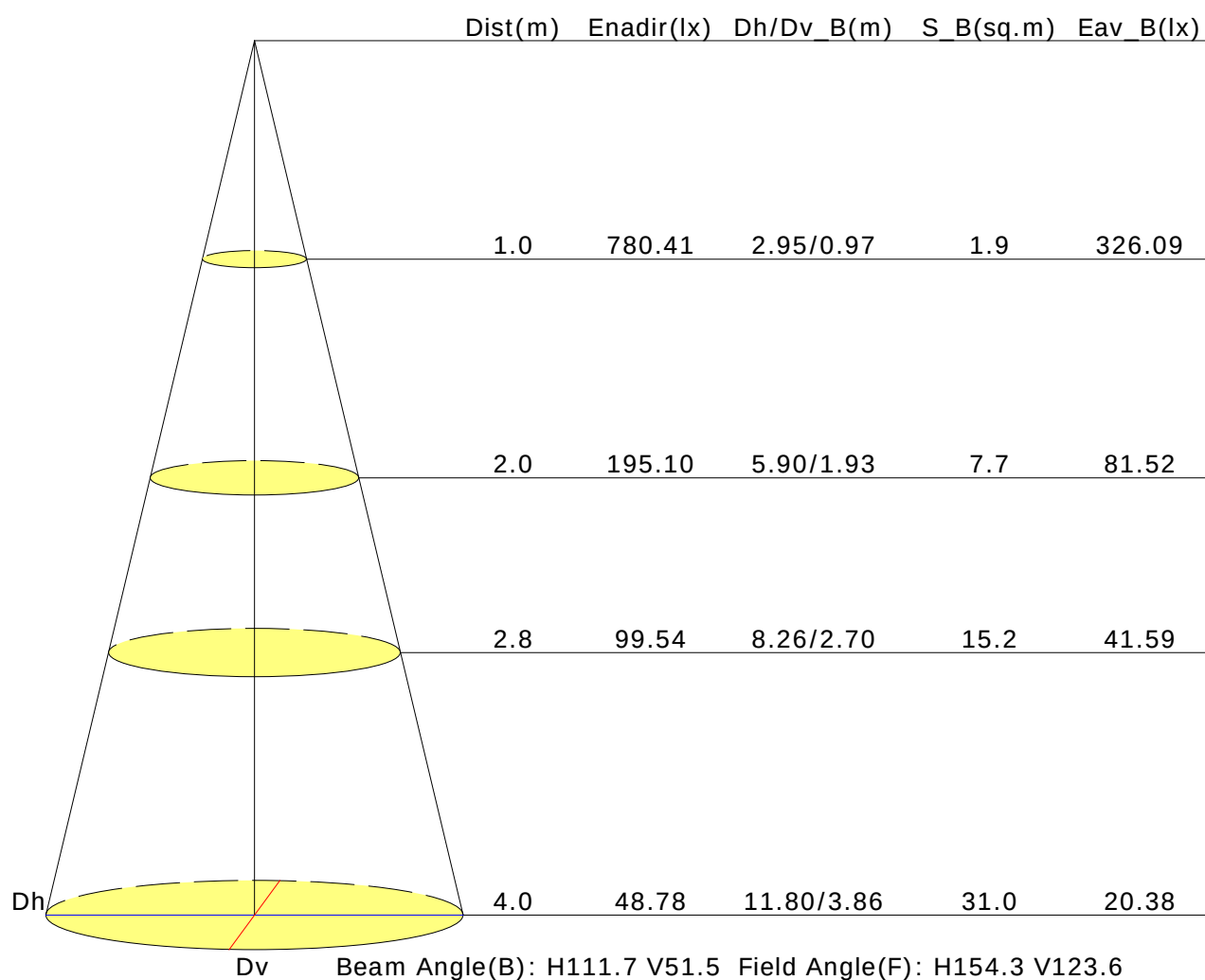
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

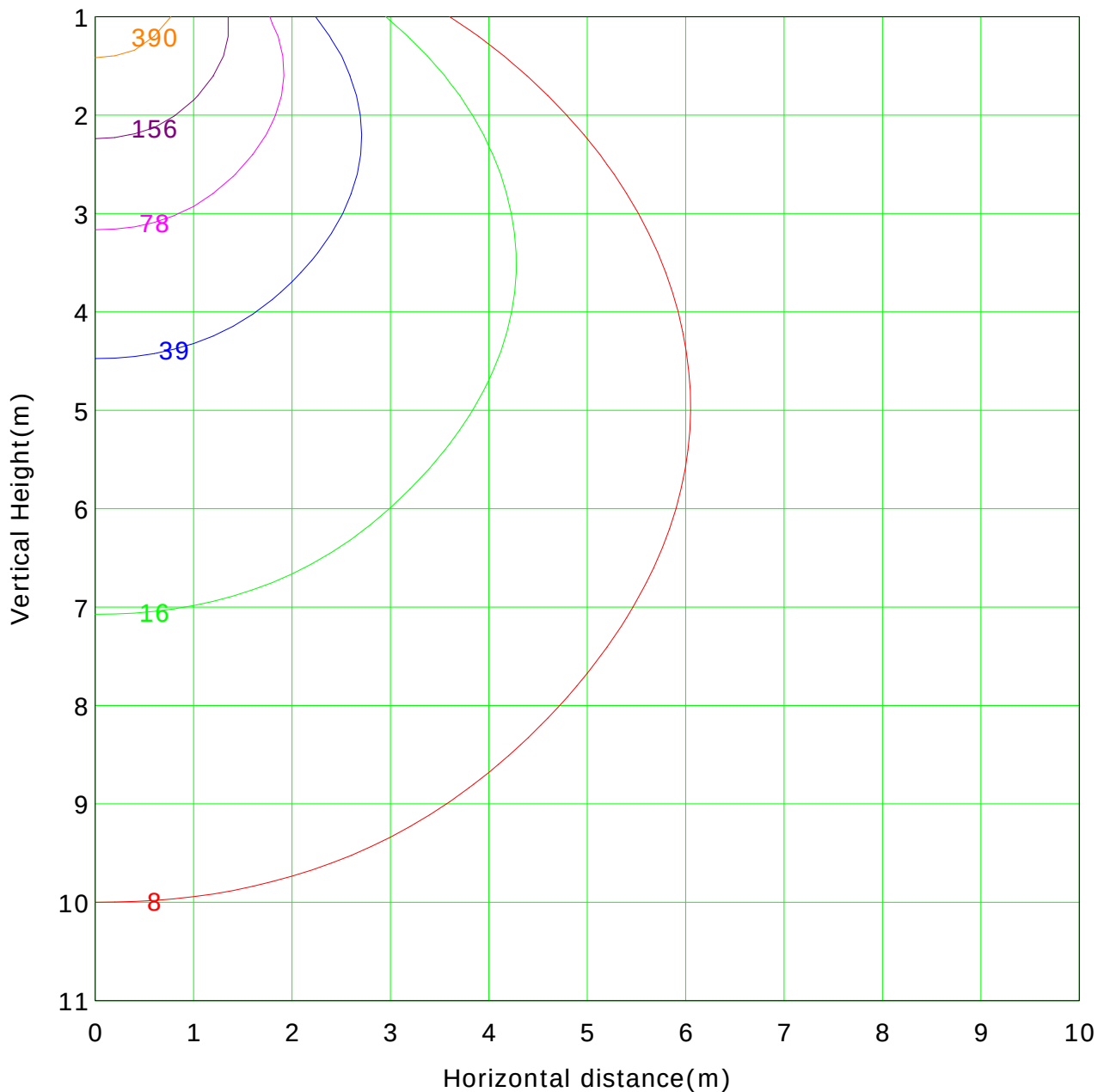
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 780.4 lx

(1%): 7.8 lx	(2%): 15.6 lx
(5%): 39.0 lx	(10%): 78.0 lx
(20%): 156.1 lx	(50%): 390.2 lx
(100%): 780.4 lx	

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:

Report No.:

Test Time: 21/01/2021 11:04

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW04-06 + LLD-06-XK-L2

Lamp Description: F52-400-60822 90cm

Number of Lamps: 1

Lumens per Lamp: 1434 lm

Voltage: 24.0 V

Current: 0.531 A

Power: 12.73 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 1158 lm

Downward Ratio: 80.62%

Total Rated Lamp Lumens: 1434.0 lm

Efficiency: 80.75%

Upward Ratio: 0.14%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.6, 136.8, 153.9, 154.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.5, 89.9, 105.1, 104.8

Luminaire Efficacy Rating (LER): 91.02

Central Intensity: 467.97 cd

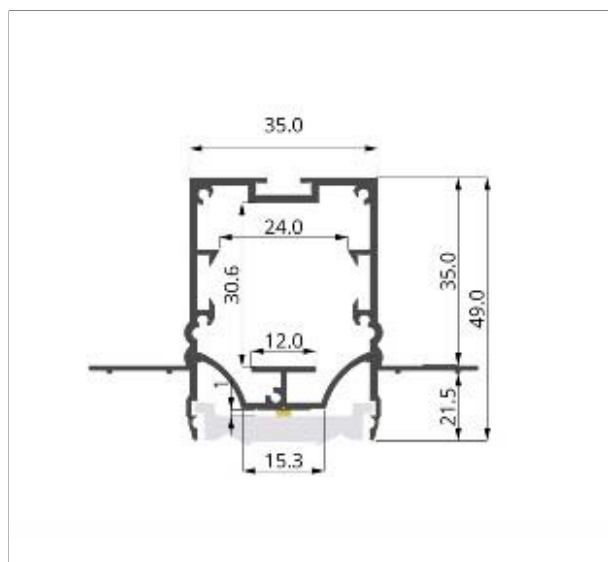
Max. Intensity: 469.27 cd

Pos of Max. Intensity: H20 V3

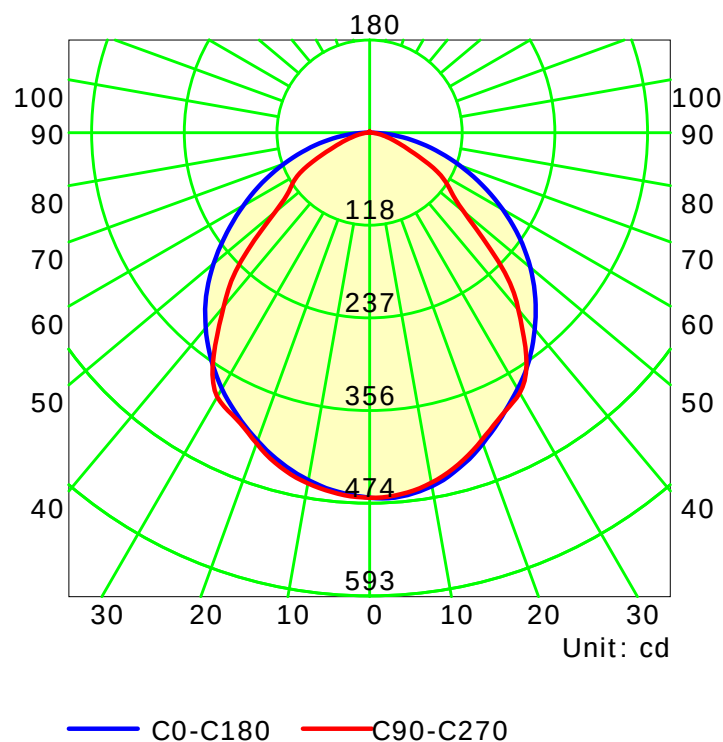
S/MH(C0/C180): 1.21

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

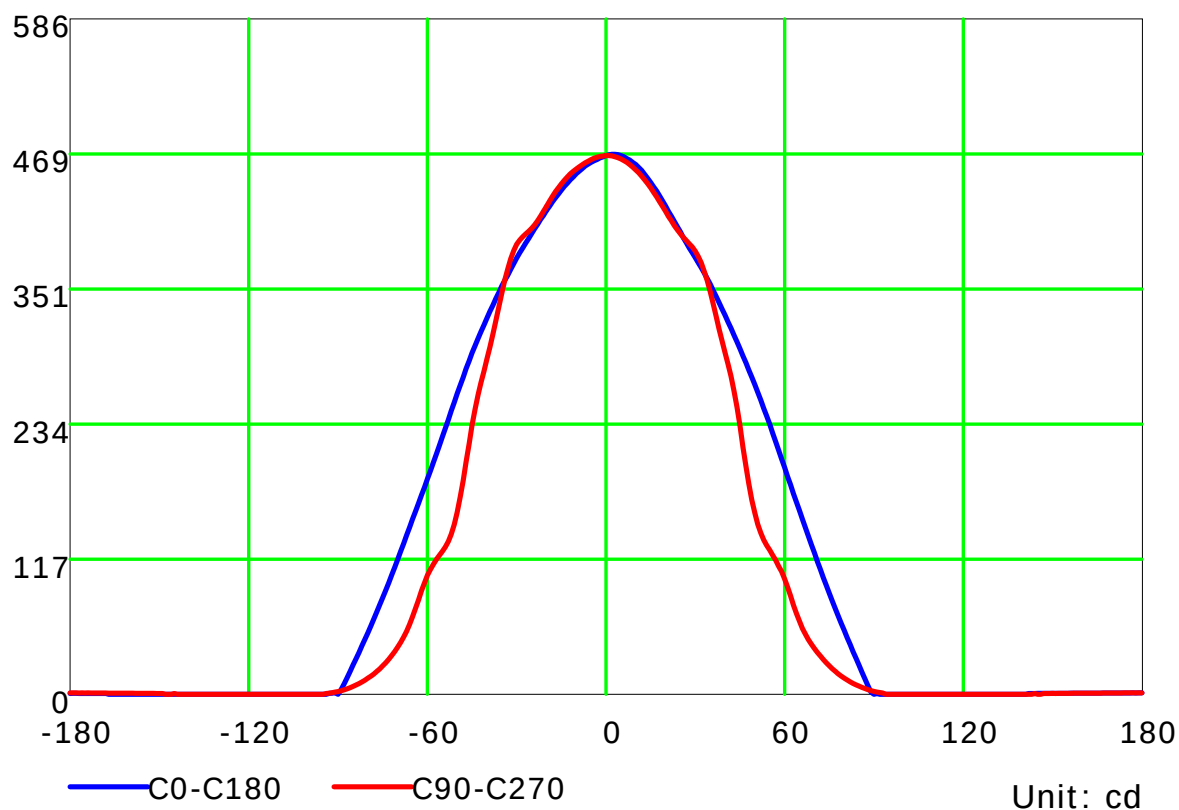
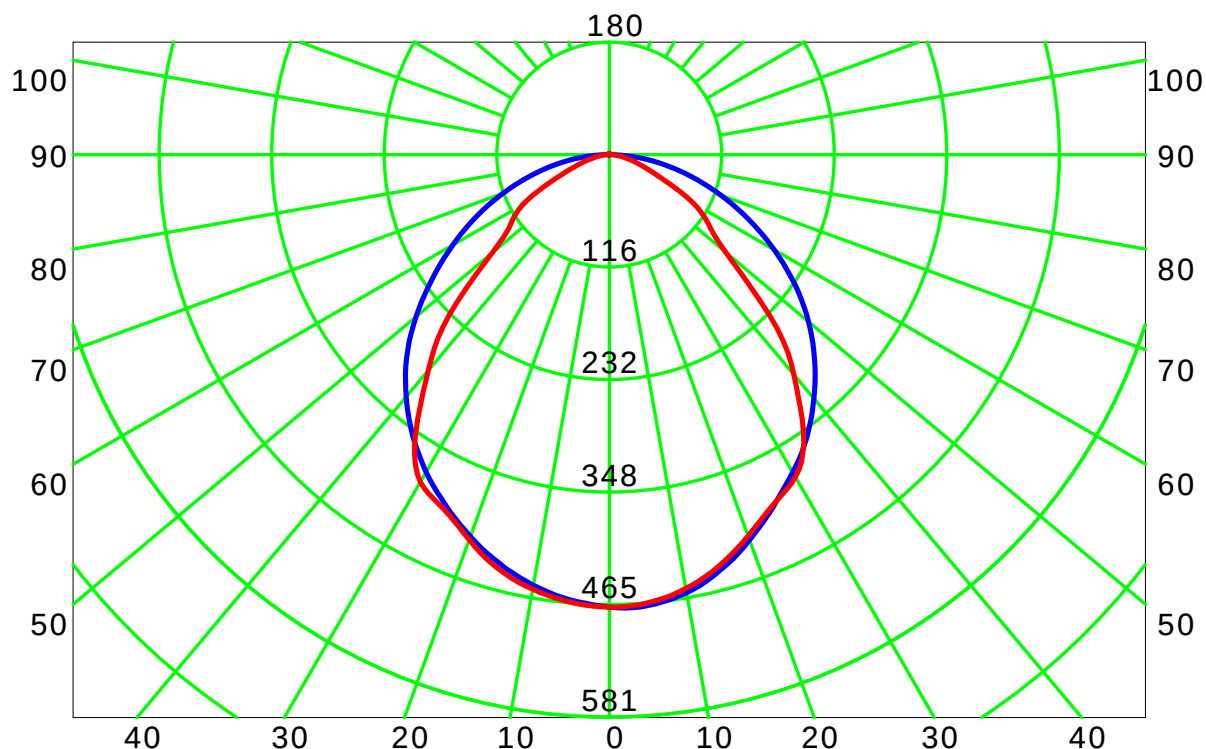
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

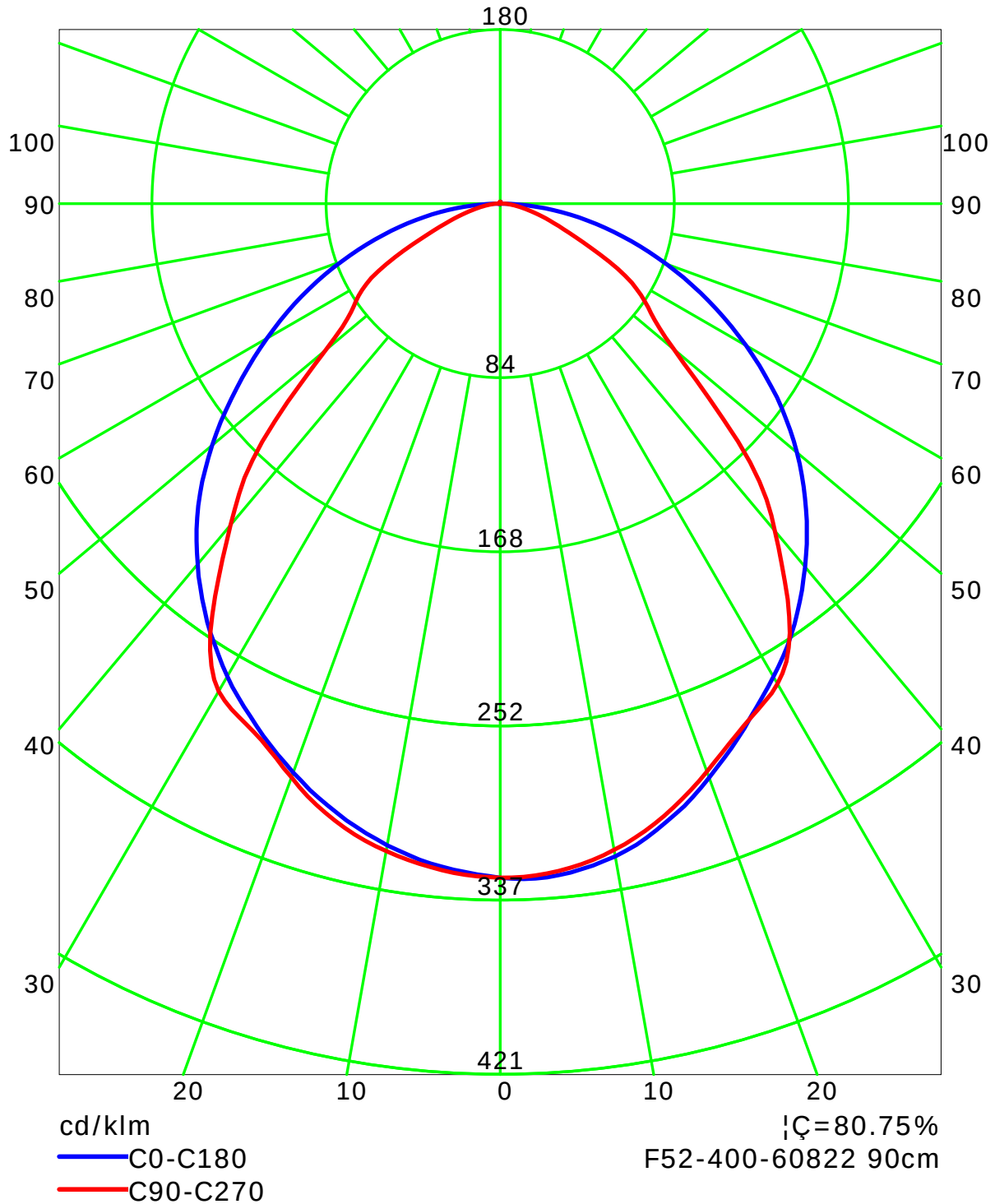
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

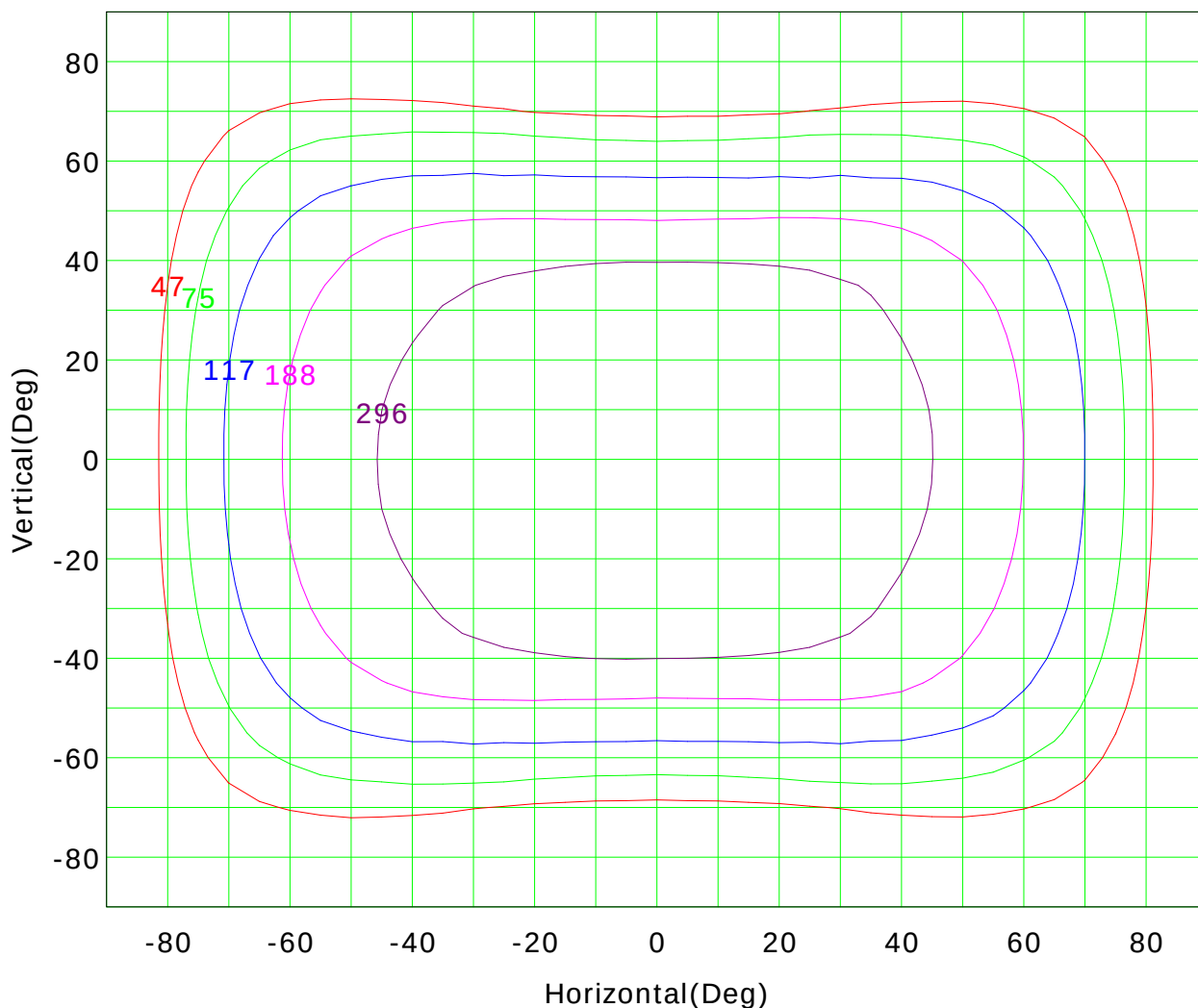
Luminous Intensity Distribution Curve(cd / klm)



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:

Isocandela (rectangle)



I_{max} (100%): 469 cd

(10%):	47 cd	(16%):	75 cd
(25%):	117 cd	(40%):	188 cd
(63%):	296 cd	(100%):	469 cd

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

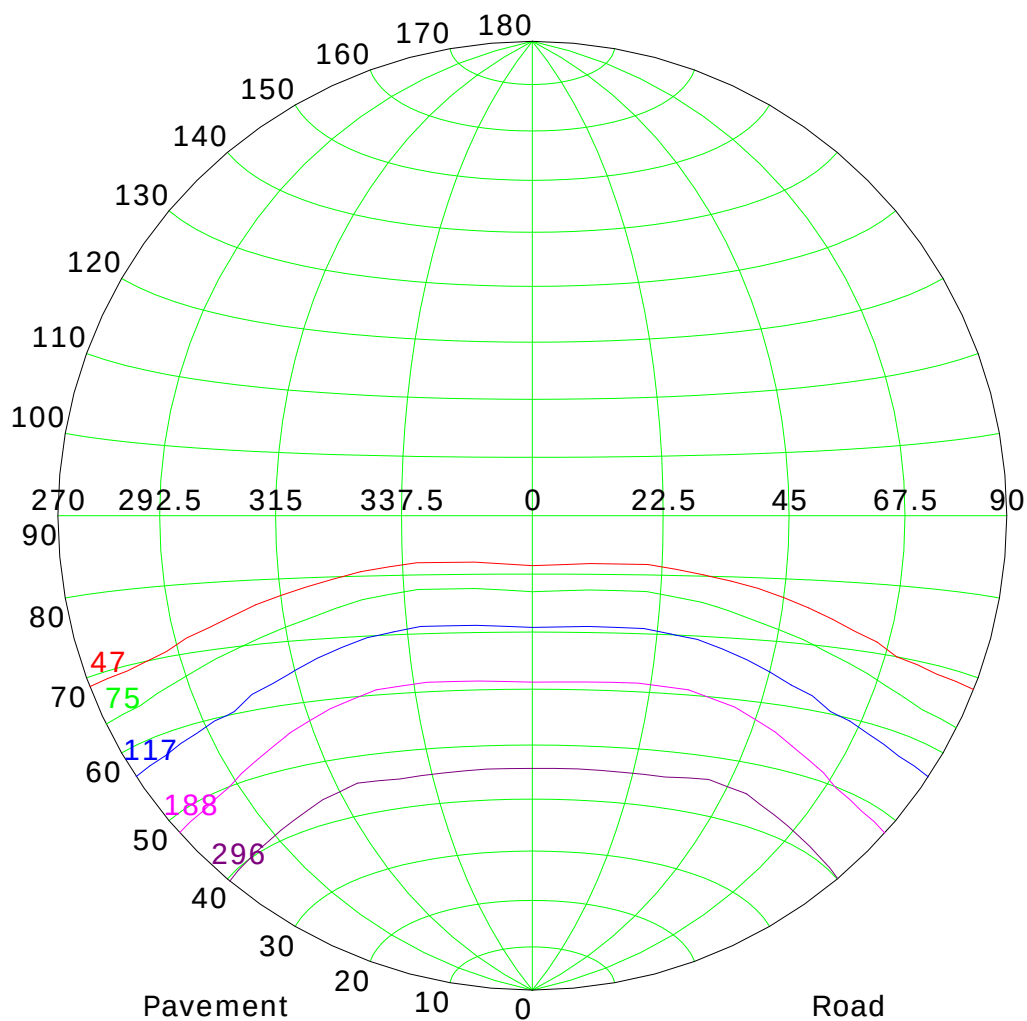
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 469 cd

(10%):	47 cd	(16%):	75 cd
(25%):	117 cd	(40%):	188 cd
(63%):	296 cd	(100%):	469 cd

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

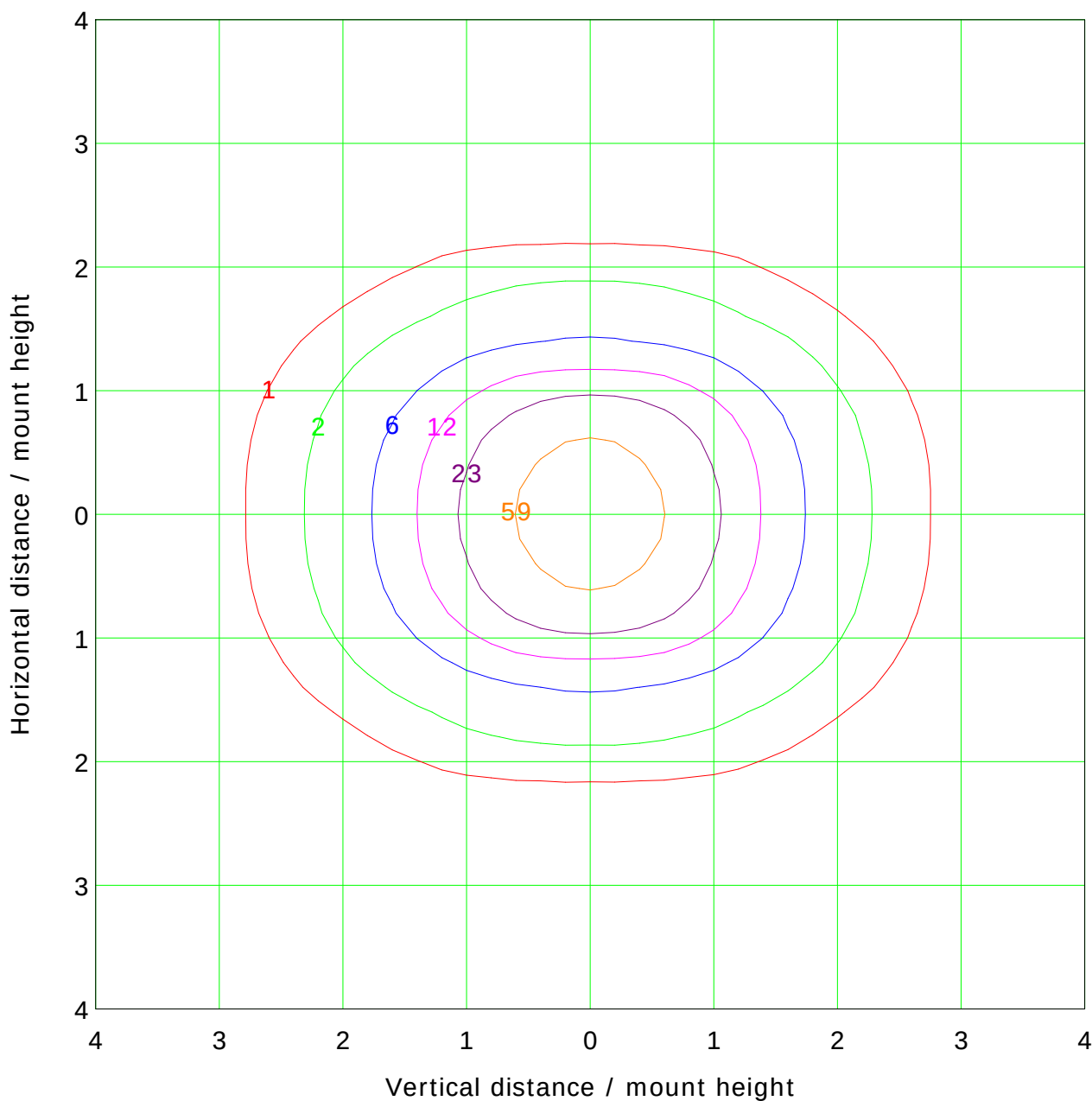
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

IsoLux Plot



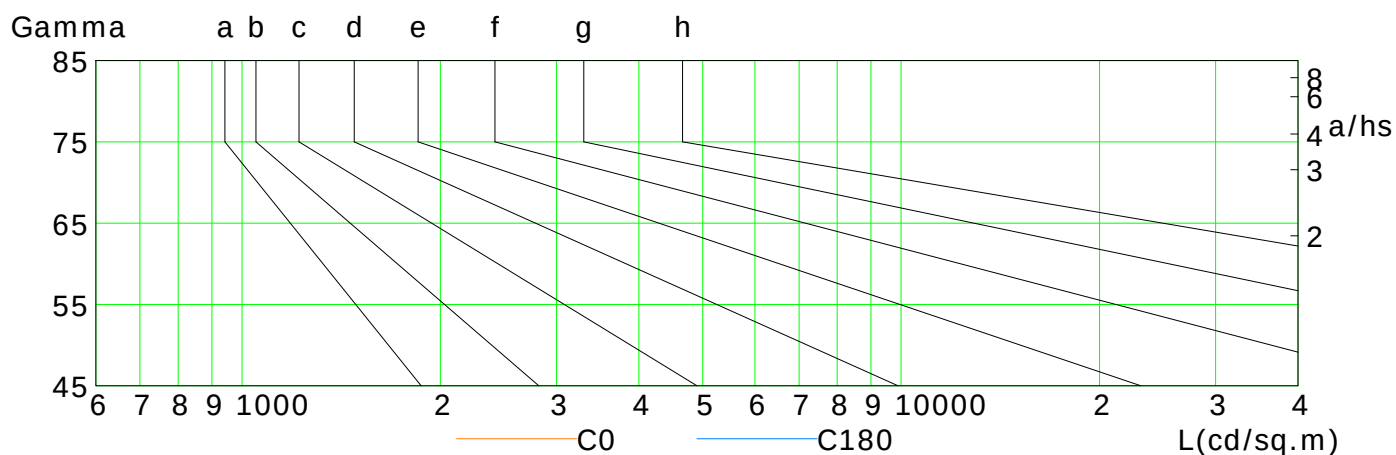
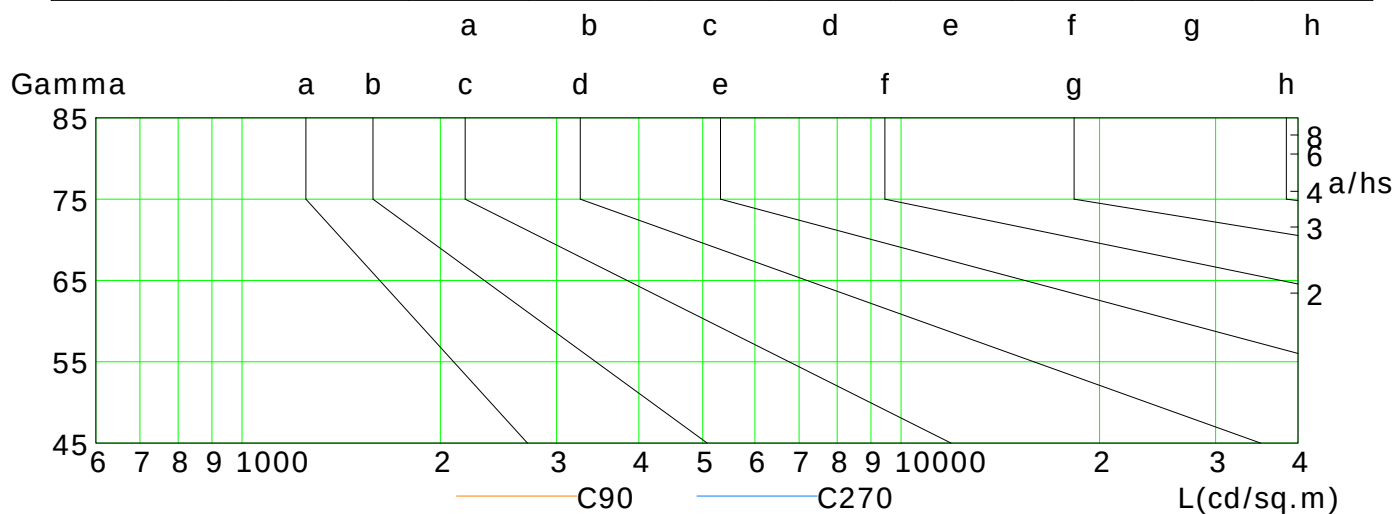
Mounting Height: 2.0m		Max Lux(100%): 117.1 lx	
— (1%):	1.2 lx	— (2%):	2.3 lx
— (5%):	5.9 lx	— (10%):	11.7 lx
— (20%):	23.4 lx	— (50%):	58.6 lx
— (100%):	117.1 lx		

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	300	269	235	197	159	123	88	56	25
C90	233	157	125	100	63	40	25	14	7
C180	296	261	223	187	152	117	84	53	25
C270	234	158	124	103	67	41	25	14	7

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

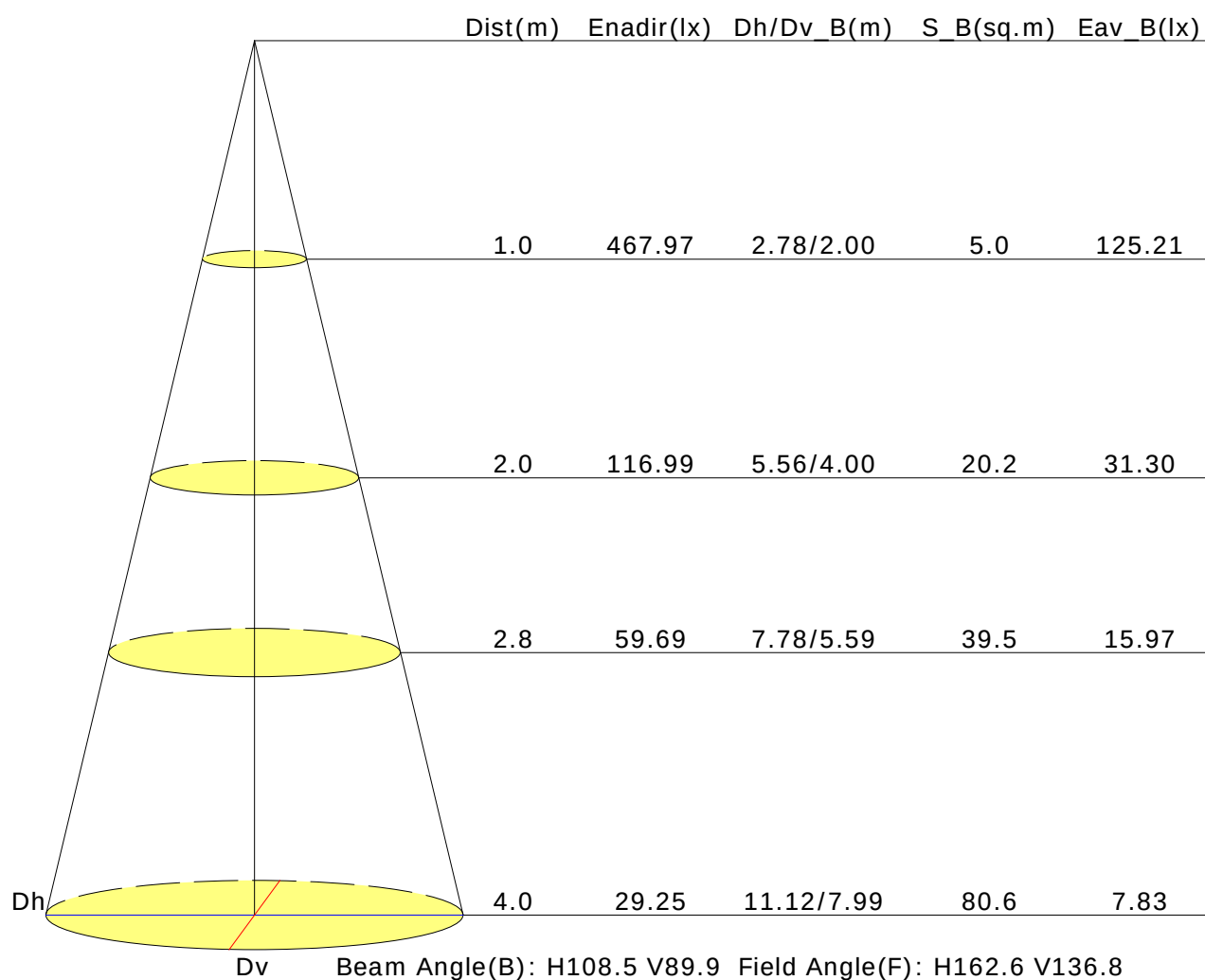
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

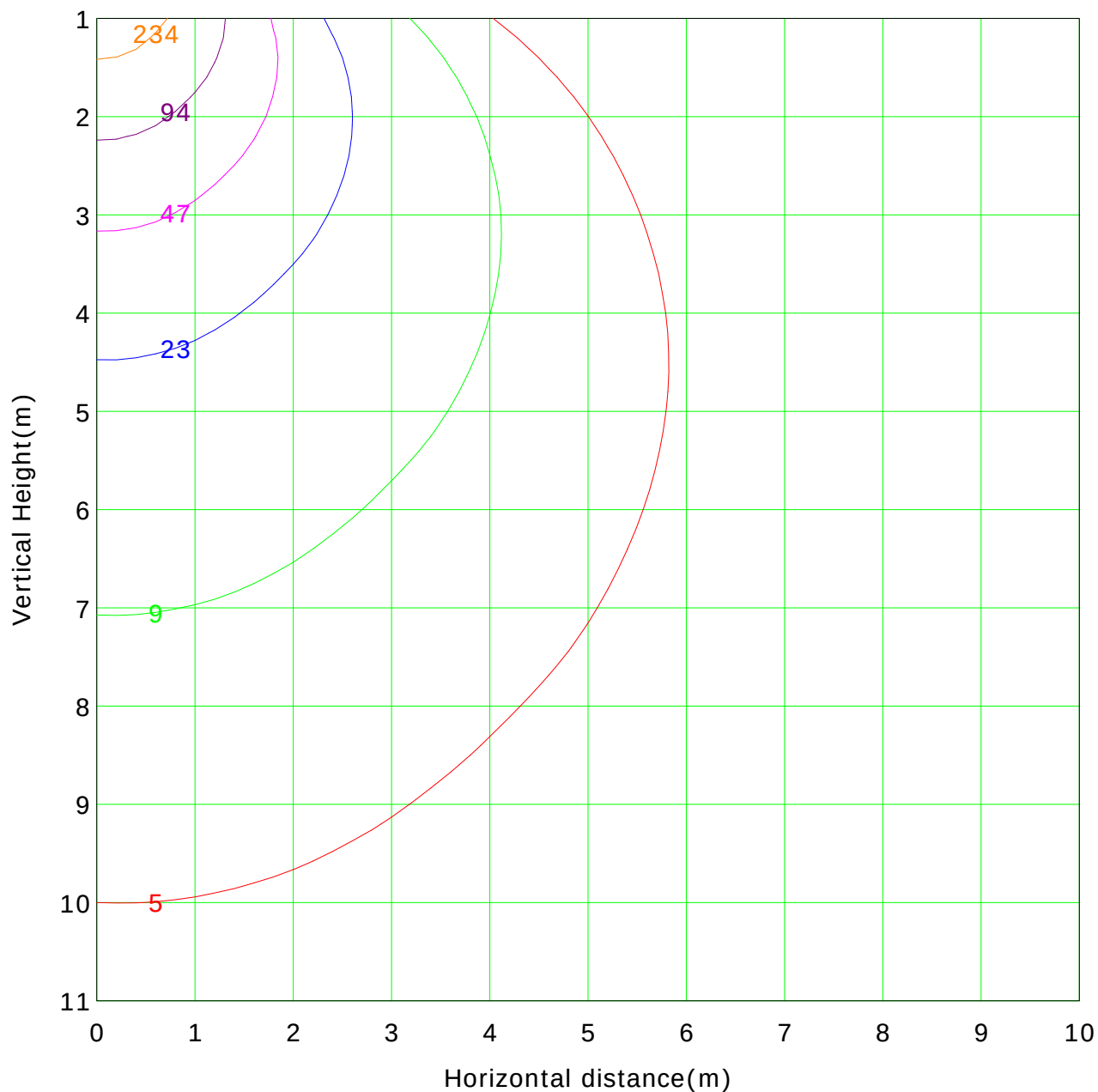
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 468.0 lx

(1%): 4.7 lx	(2%): 9.4 lx
(5%): 23.4 lx	(10%): 46.8 lx
(20%): 93.6 lx	(50%): 234.0 lx
(100%): 468.0 lx	

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Report No.:

Test Time: 20/01/2021 14:33

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW04-06 + LLD-06-XK-L3

Lamp Description: F52-400-60822 90cm

Number of Lamps: 1

Lumens per Lamp: 1434 lm

Voltage: 24.0 V

Current: 0.531 A

Power: 12.74 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 1131.1 lm

Downward Ratio: 78.70%

Total Rated Lamp Lumens: 1434.0 lm

Efficiency: 78.88%

Upward Ratio: 0.17%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.1, 142.6, 143.2, 143.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 86.9, 63.4, 69.8, 70.6

Luminaire Efficacy Rating (LER): 88.84

Central Intensity: 561.75 cd

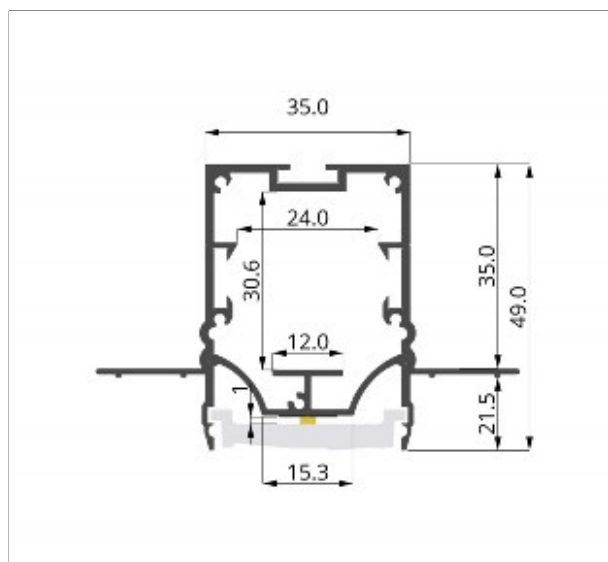
Max. Intensity: 646.1 cd

Pos of Max. Intensity: H90 V12

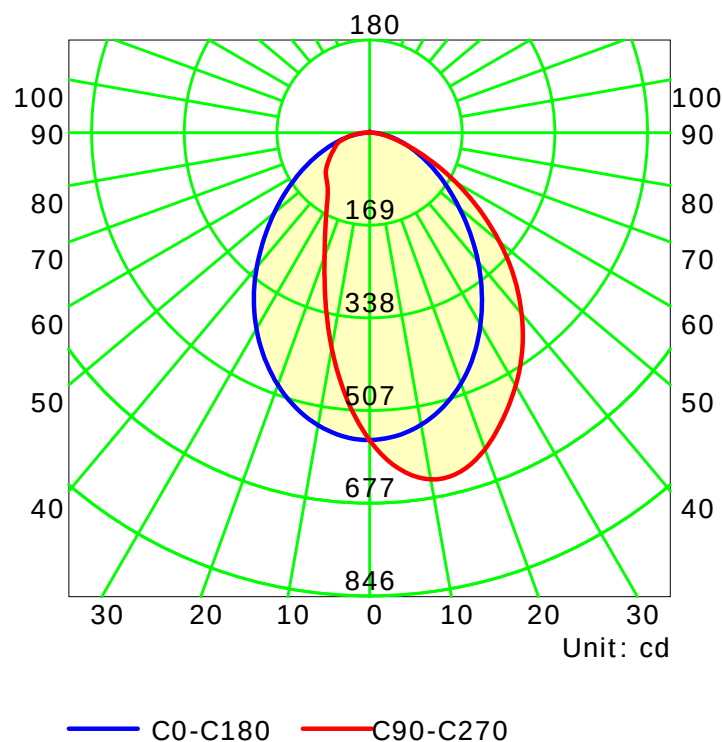
S/MH(C0/C180): 1.11

S/MH(C90/C270): 0.95

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

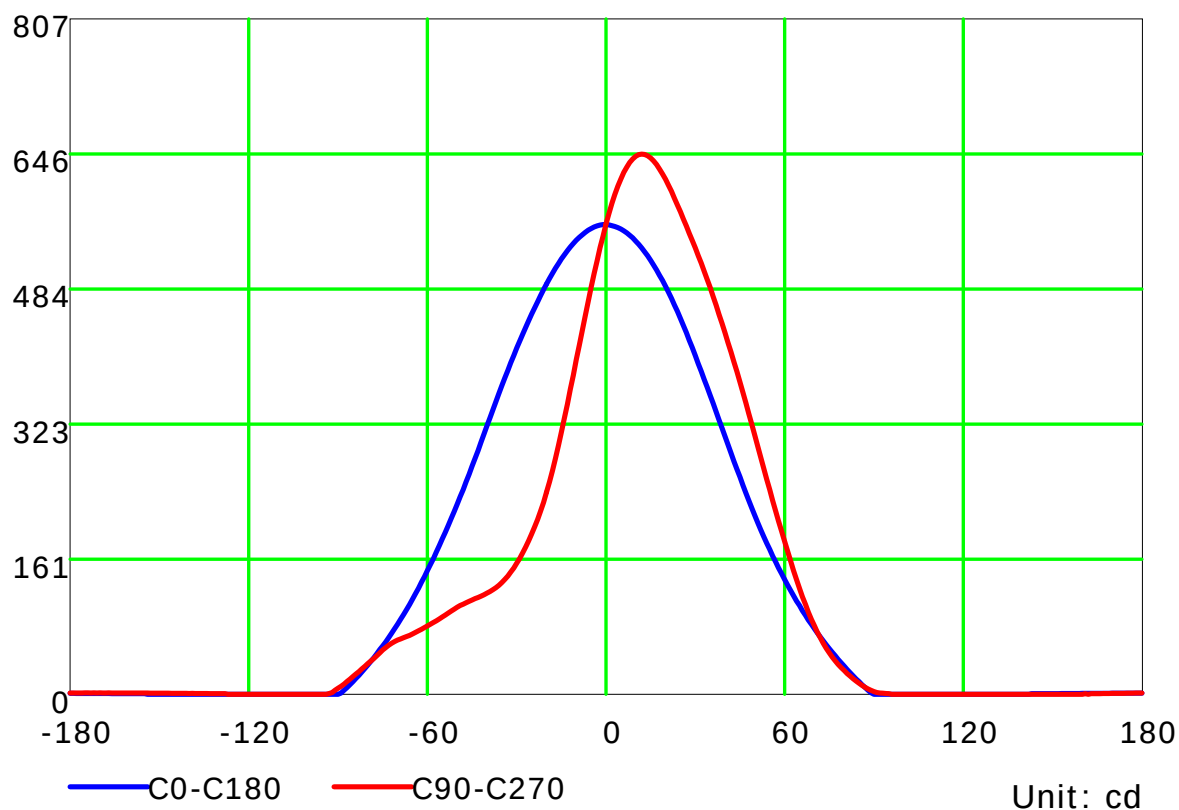
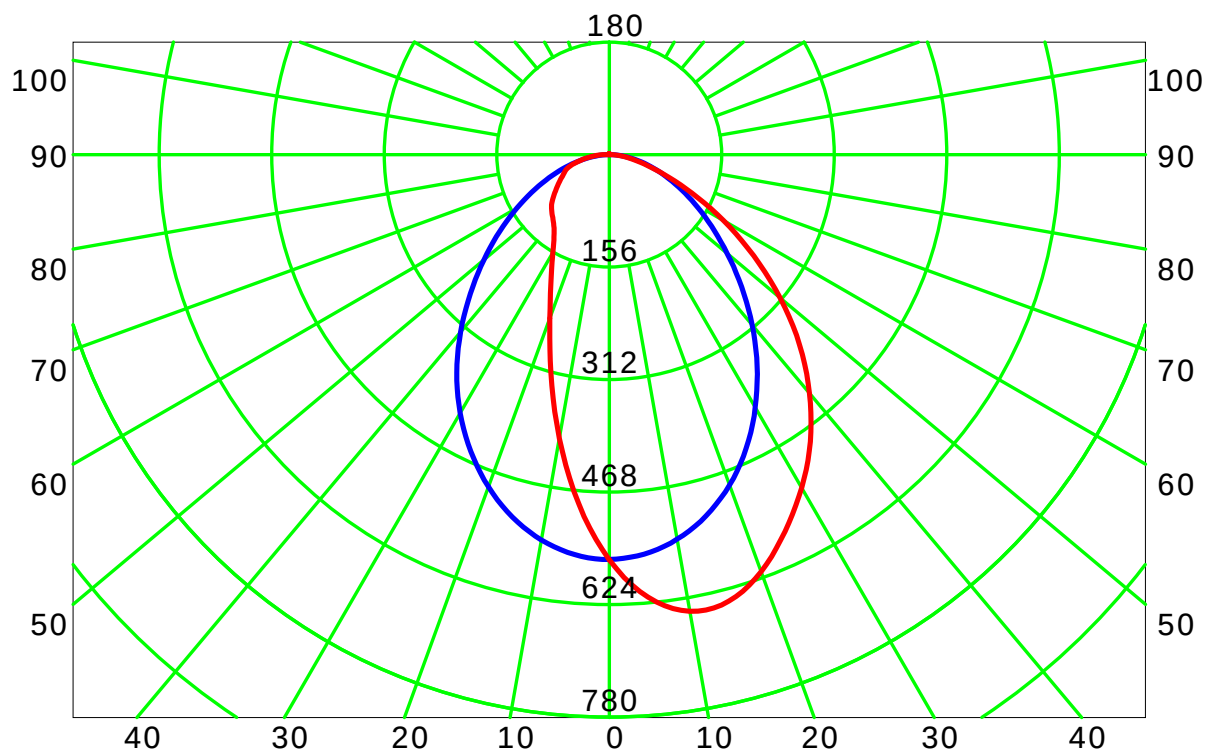
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

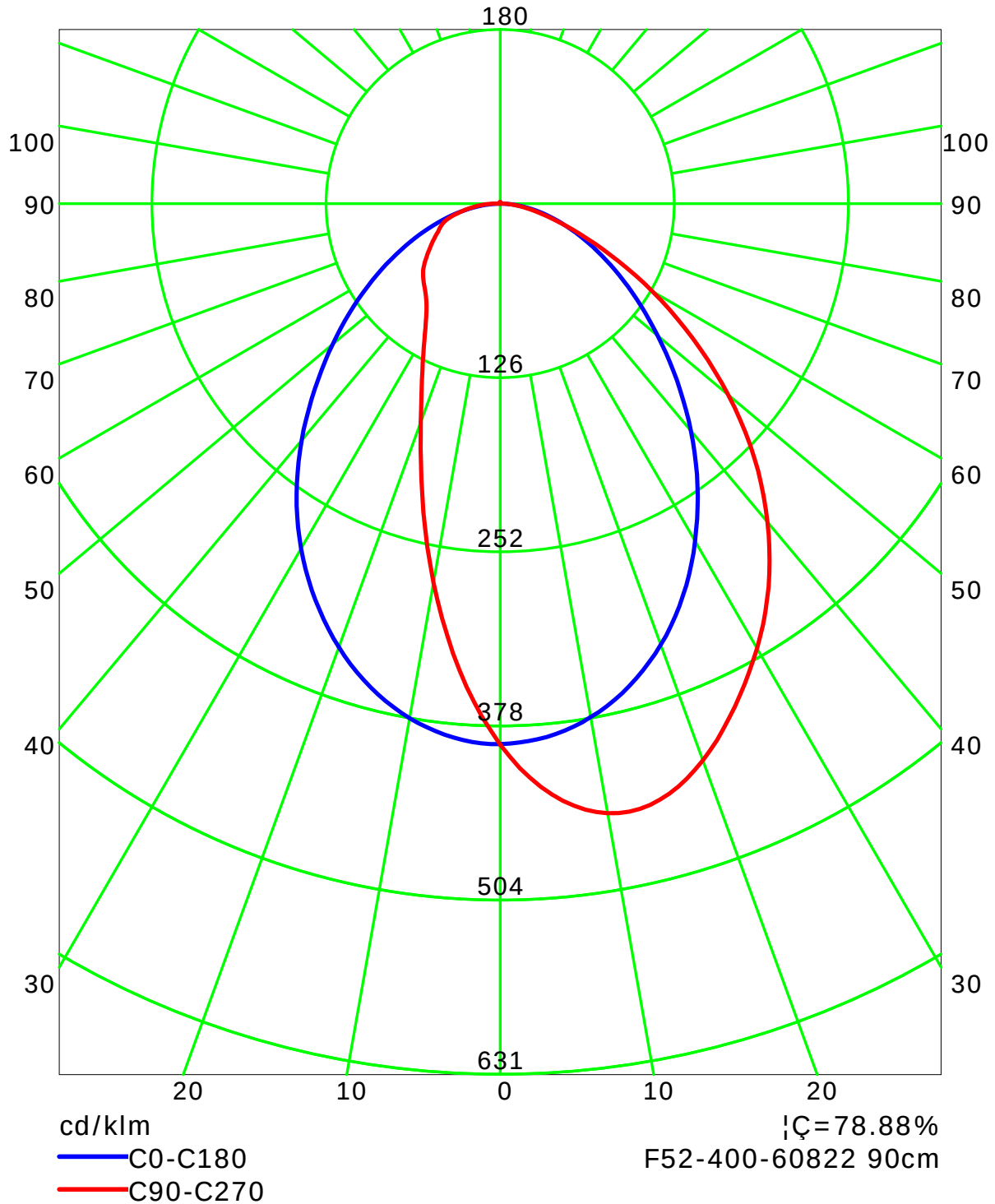
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

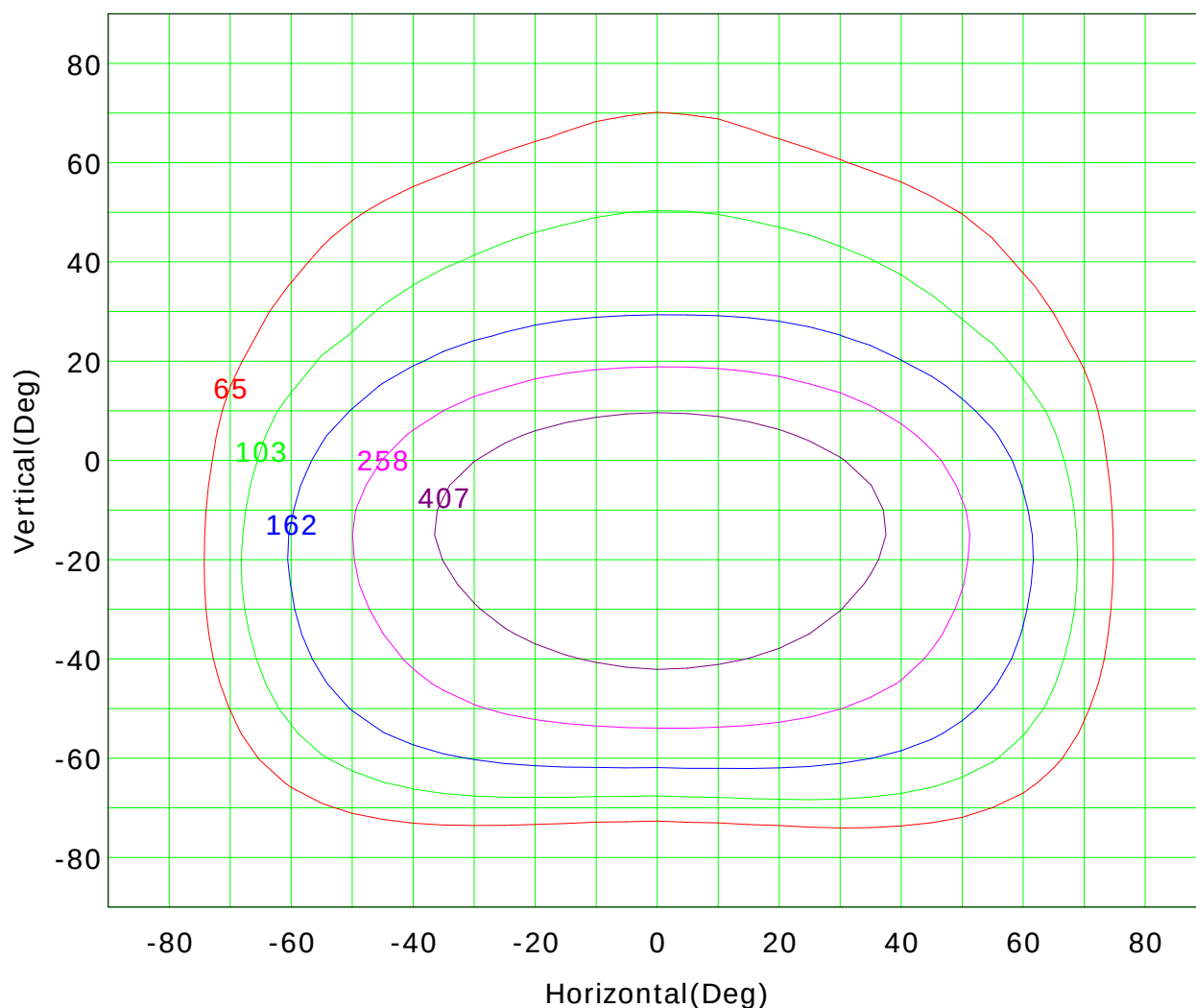
Luminous Intensity Distribution Curve(cd / klm)



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:

Isocandela (rectangle)



I_{max} (100%): 646 cd

— (10%):	65 cd	— (16%):	103 cd
— (25%):	162 cd	— (40%):	258 cd
— (63%):	407 cd	— (100%):	646 cd

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

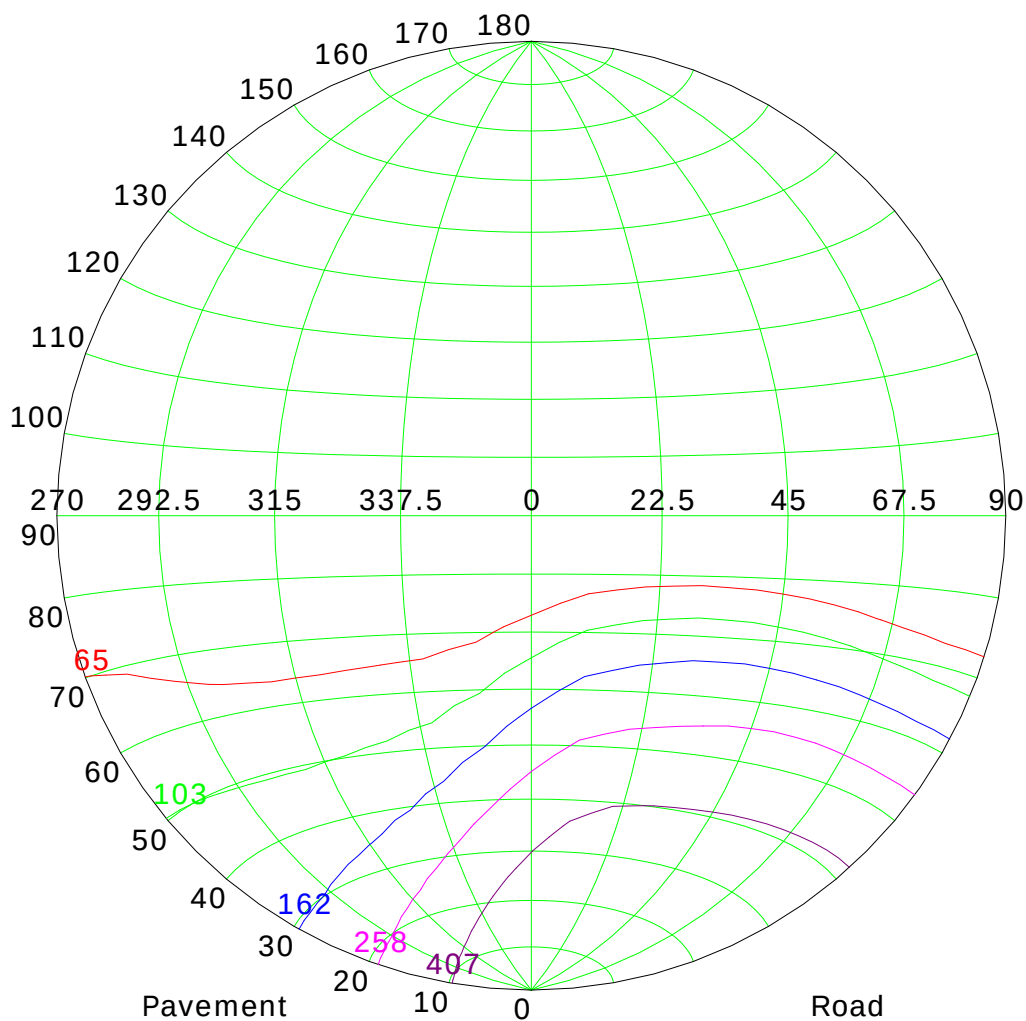
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 646 cd

(10%): 65 cd	(16%): 103 cd
(25%): 162 cd	(40%): 258 cd
(63%): 407 cd	(100%): 646 cd

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

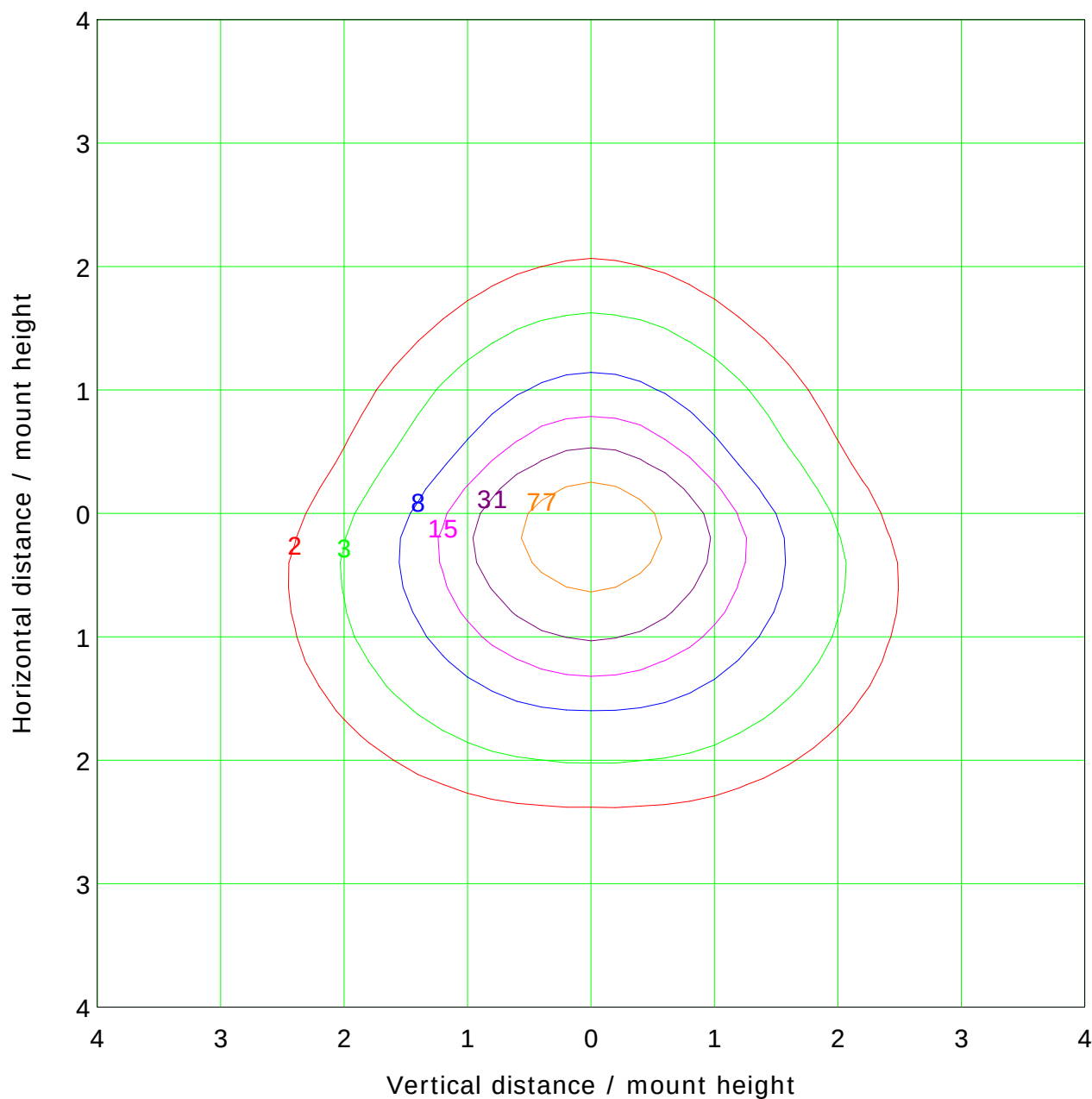
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 154.4 lx	
— (1%):	1.5 lx	— (2%):	3.1 lx
— (5%):	7.7 lx	— (10%):	15.4 lx
— (20%):	30.9 lx	— (50%):	77.2 lx
— (100%):	154.4 lx		

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 7.979 m

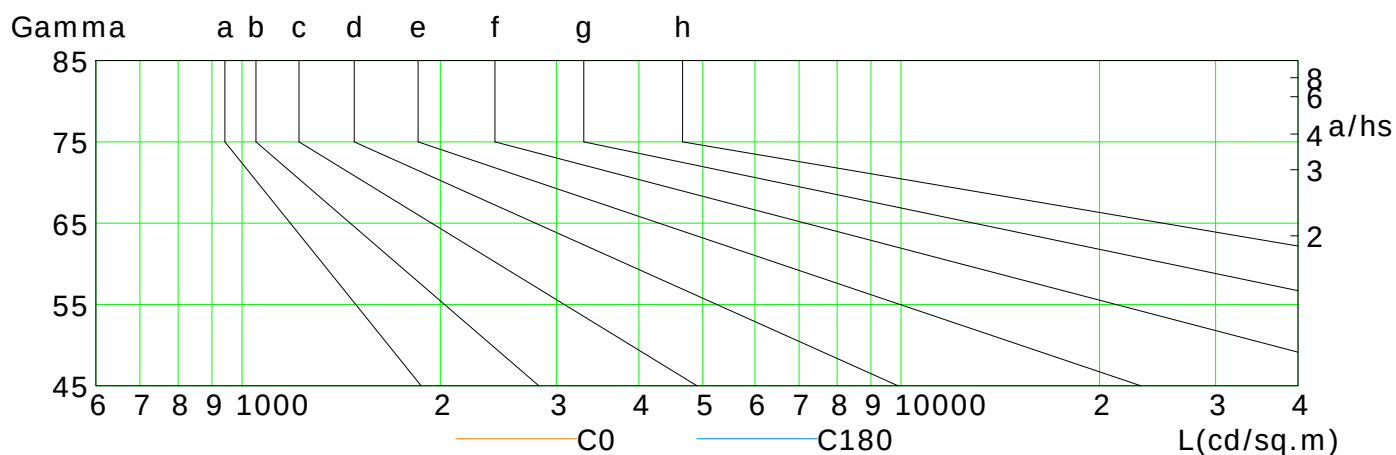
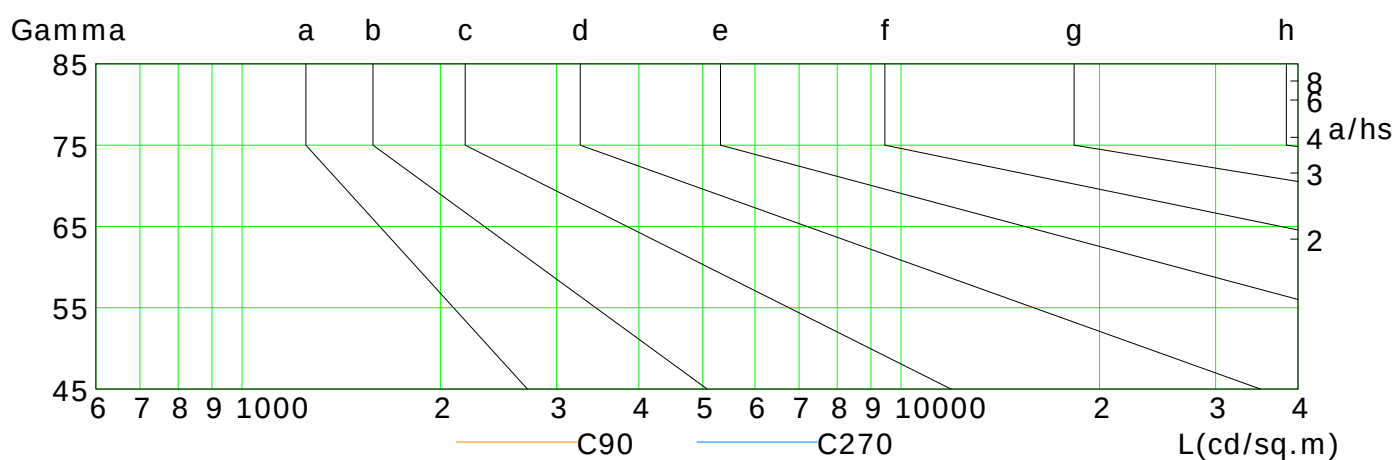
Humidity:

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	260	214	173	137	106	79	55	34	15
C90	373	309	245	183	127	82	50	29	13
C180	273	227	186	148	114	84	58	35	15
C270	113	104	93	82	72	65	53	37	21

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

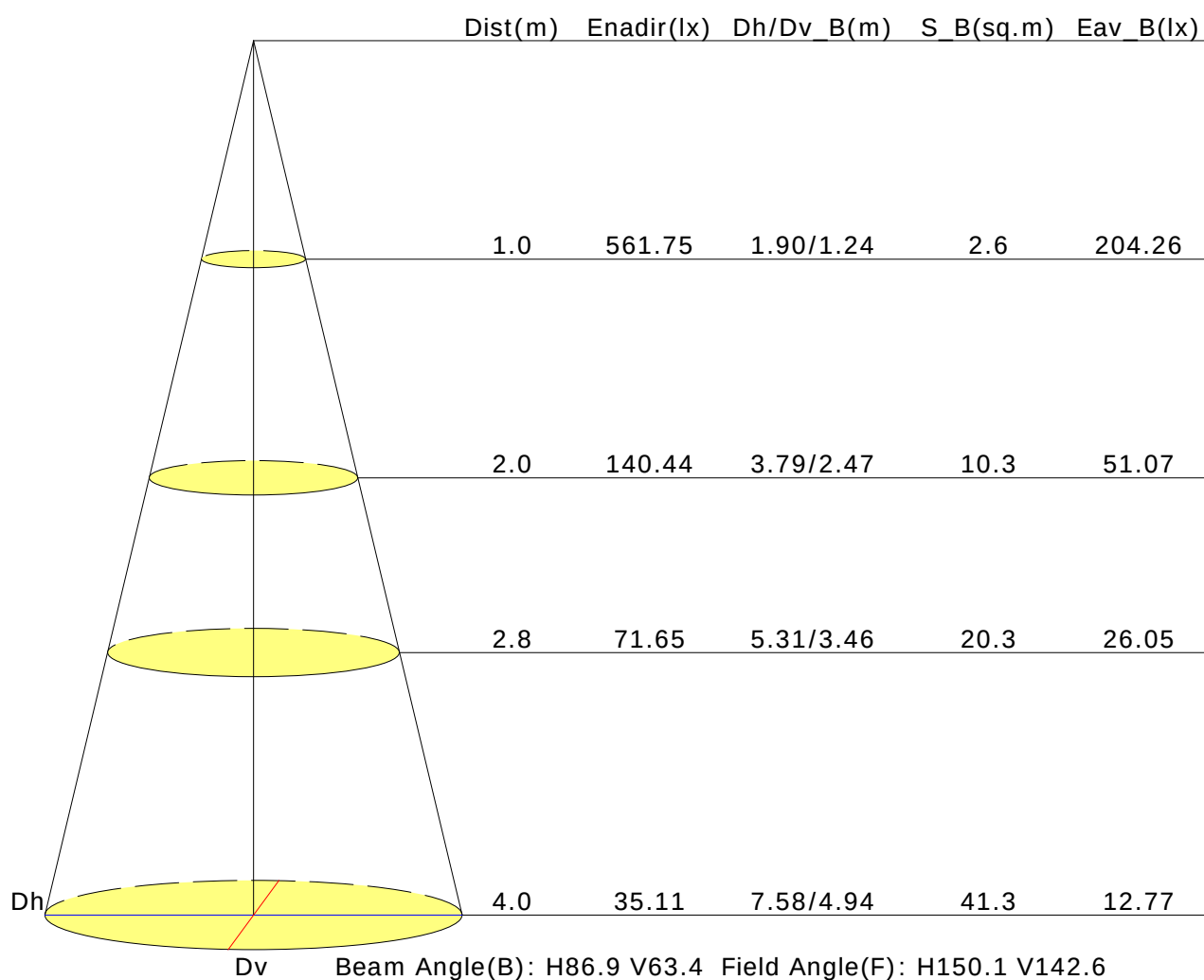
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

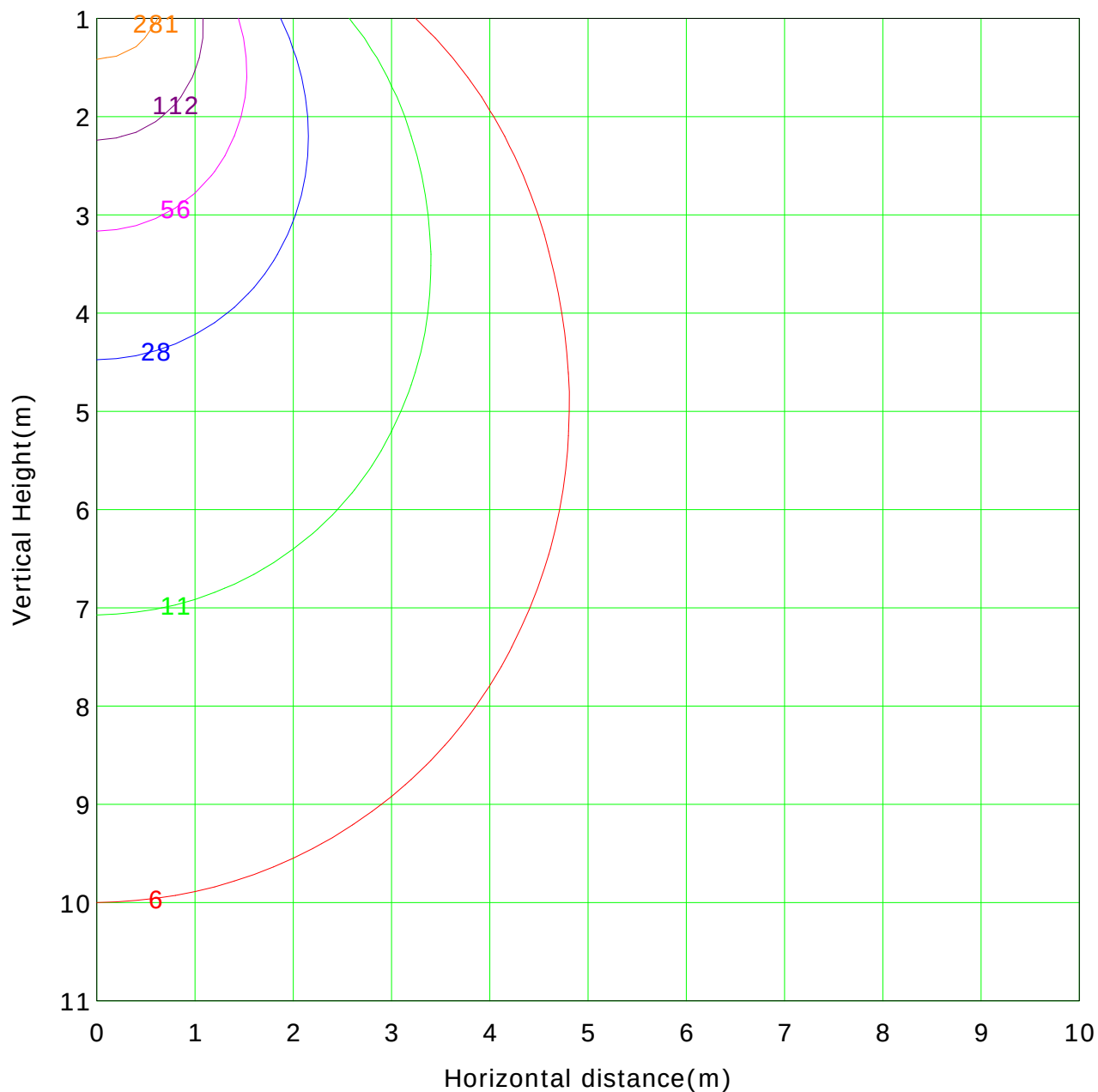
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 561.8 lx

(1%): 5.6 lx	(2%): 11.2 lx
(5%): 28.1 lx	(10%): 56.2 lx
(20%): 112.3 lx	(50%): 280.9 lx
(100%): 561.8 lx	

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:

Report No.:

Test Time: 20/01/2021 12:12

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW04-06 + LLD-06-XK-L4

Lamp Description: F52-400-60822 90cm

Number of Lamps: 1

Lumens per Lamp: 1434 lm

Voltage: 24.0 V

Current: 0.531 A

Power: 12.74 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 1233.5 lm

Downward Ratio: 85.69%

Total Rated Lamp Lumens: 1434.0 lm

Efficiency: 86.02%

Upward Ratio: 0.33%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.9, 137.2, 140.2, 140.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 99.2, 87.6, 98.3, 98.9

Luminaire Efficacy Rating (LER): 96.87

Central Intensity: 376.97 cd

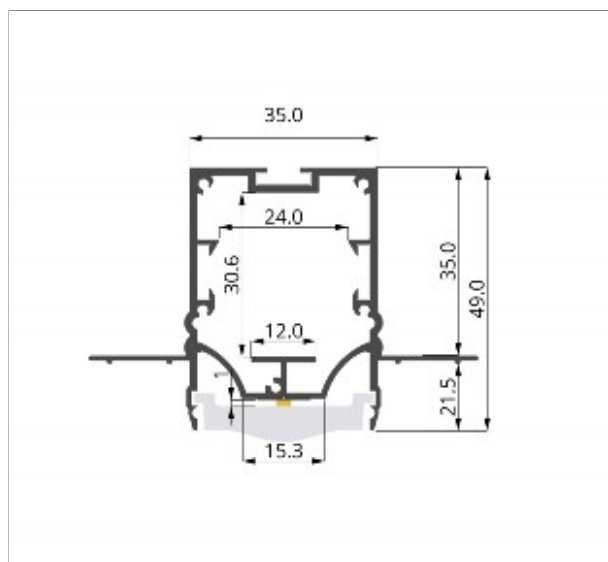
Max. Intensity: 569.56 cd

Pos of Max. Intensity: H280 V25

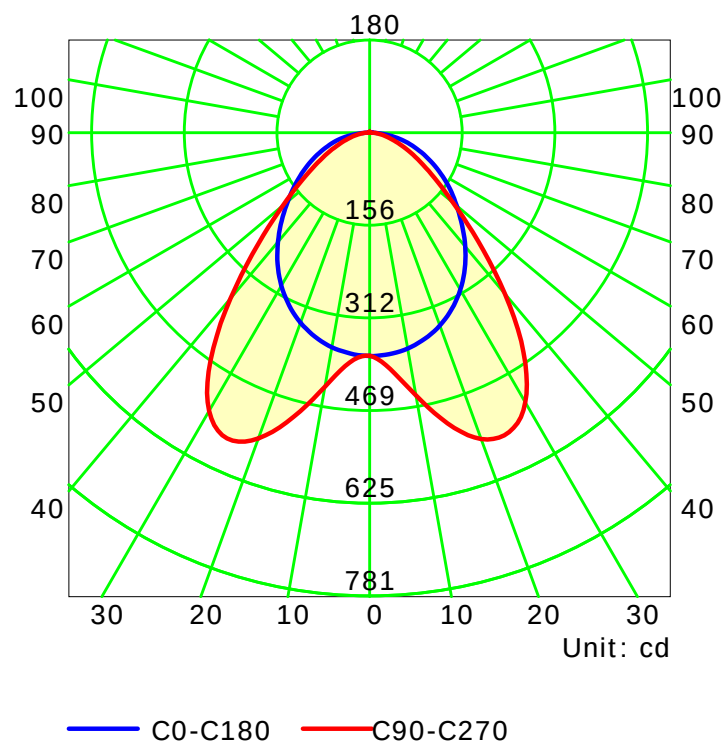
S/MH(C0/C180): 1.19

S/MH(C90/C270): 1.59

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

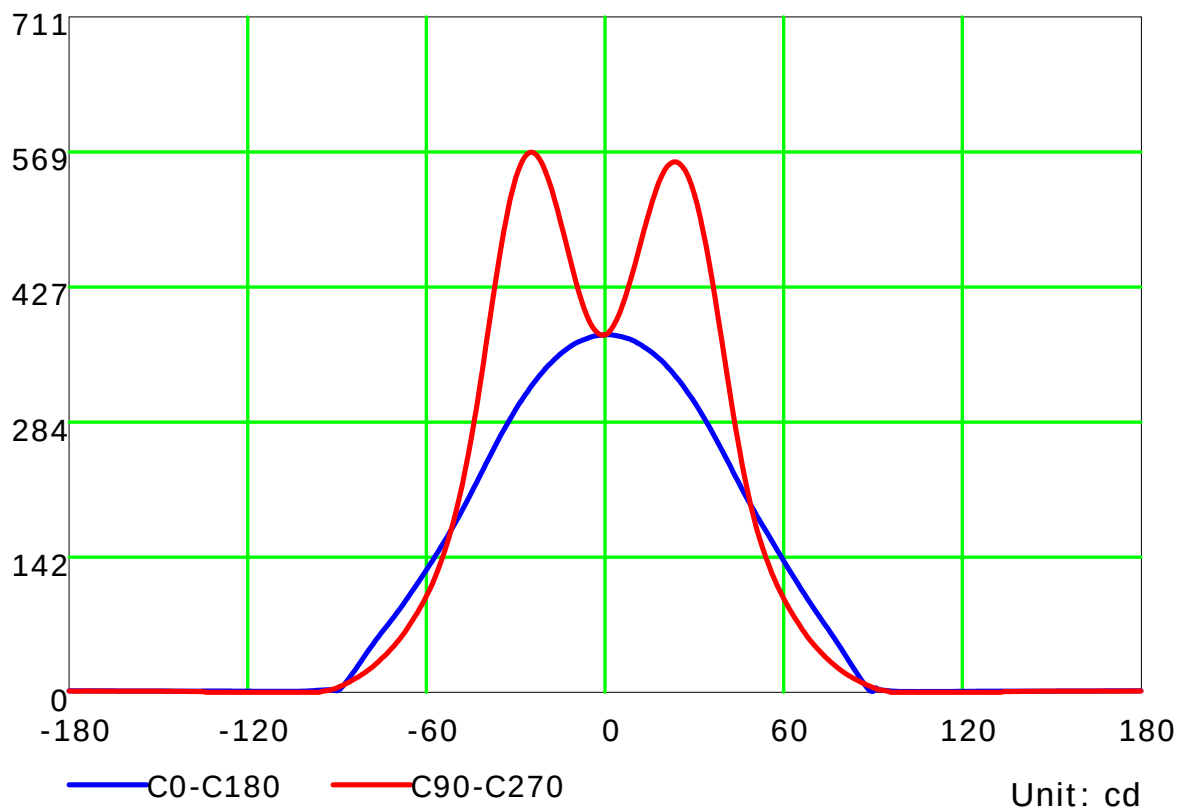
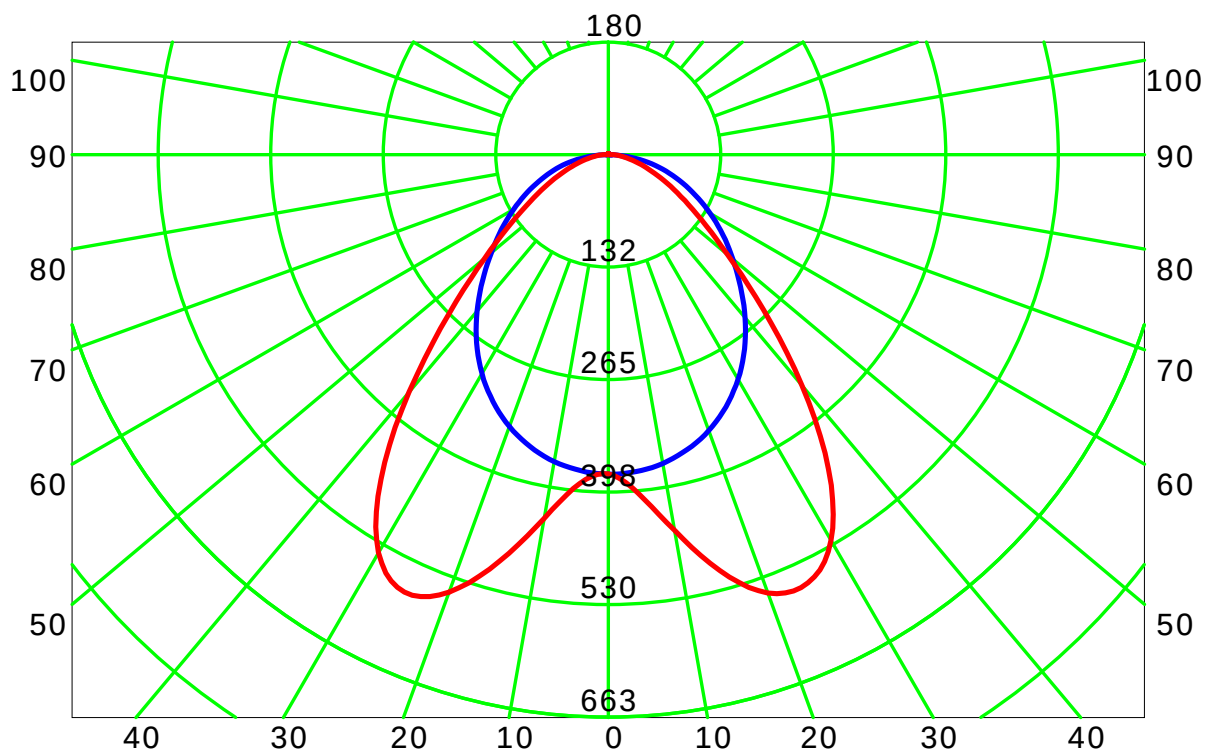
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

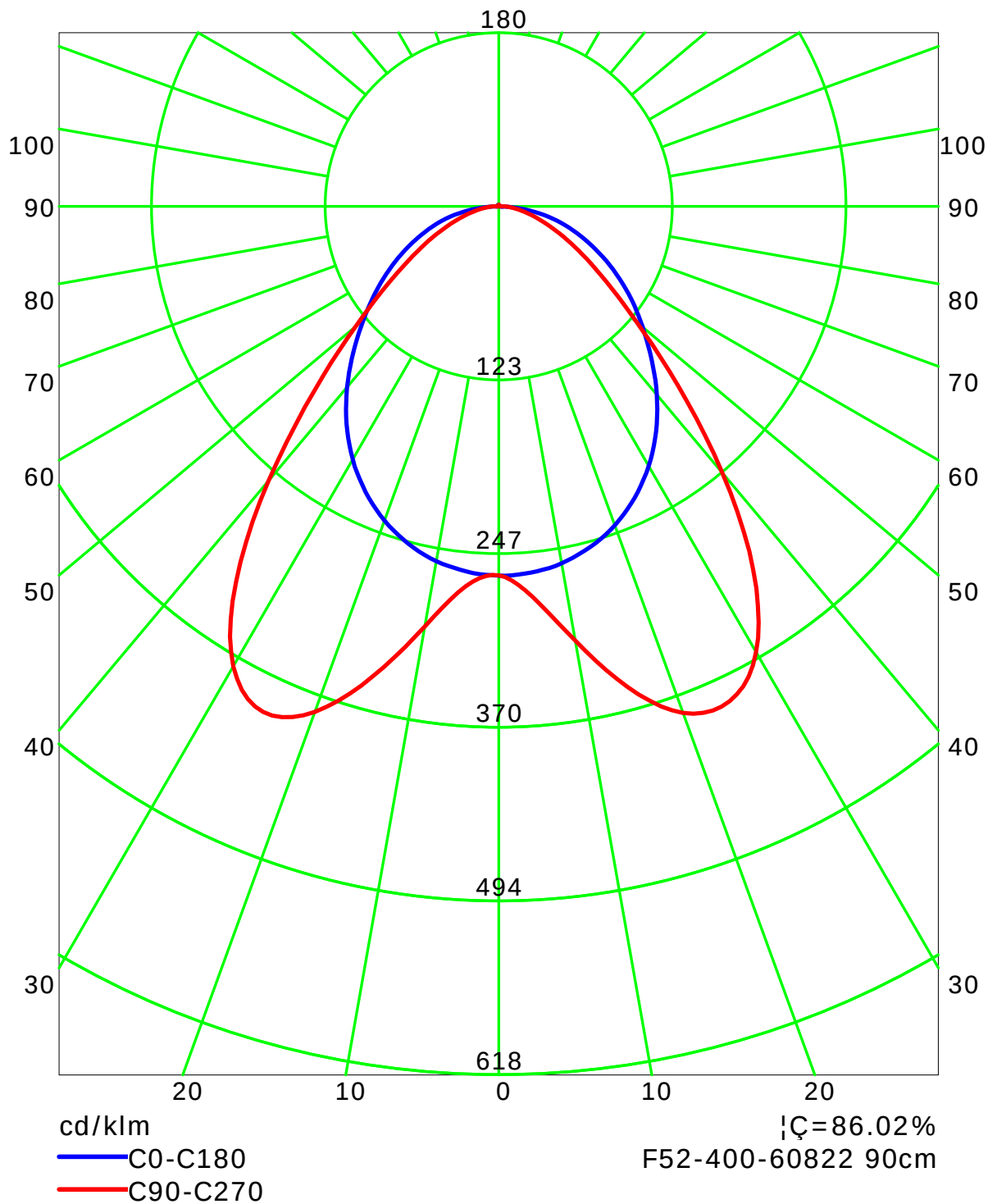
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

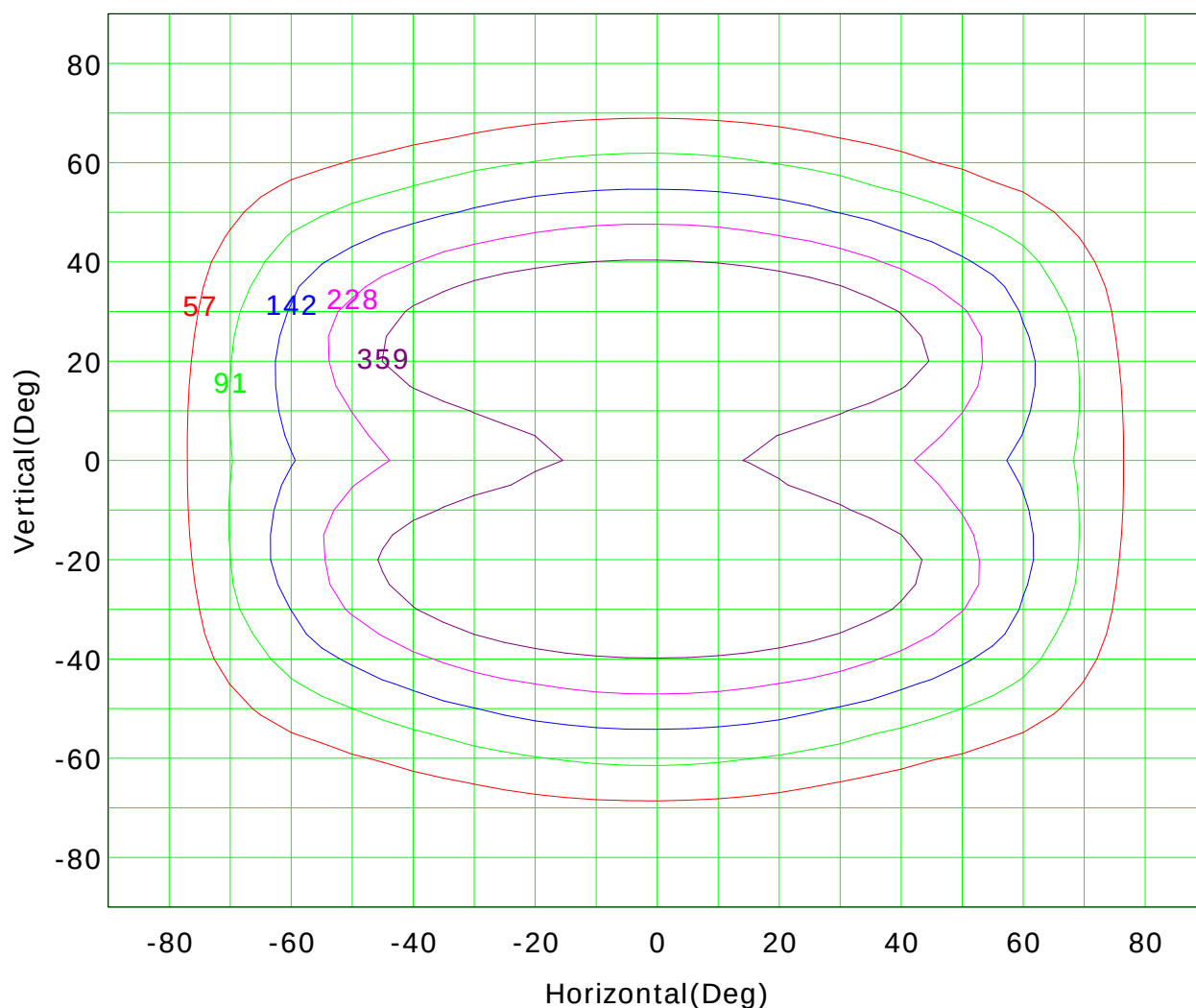
Luminous Intensity Distribution Curve(cd / klm)



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:

Isocandela (rectangle)



I_{max} (100%): 570 cd

(10%):	57 cd	(16%):	91 cd
(25%):	142 cd	(40%):	228 cd
(63%):	359 cd	(100%):	570 cd

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

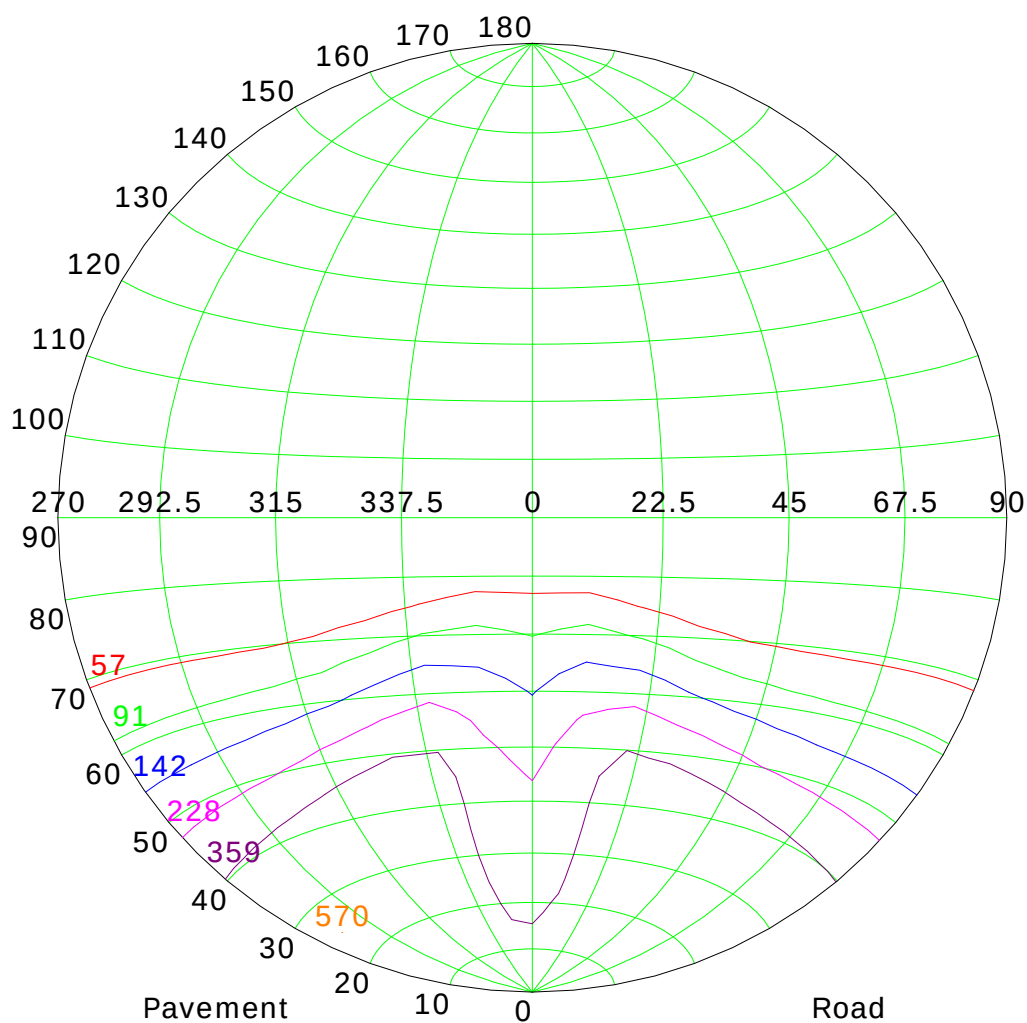
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 570 cd

(10%):	57 cd	(16%):	91 cd
(25%):	142 cd	(40%):	228 cd
(63%):	359 cd	(100%):	570 cd

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

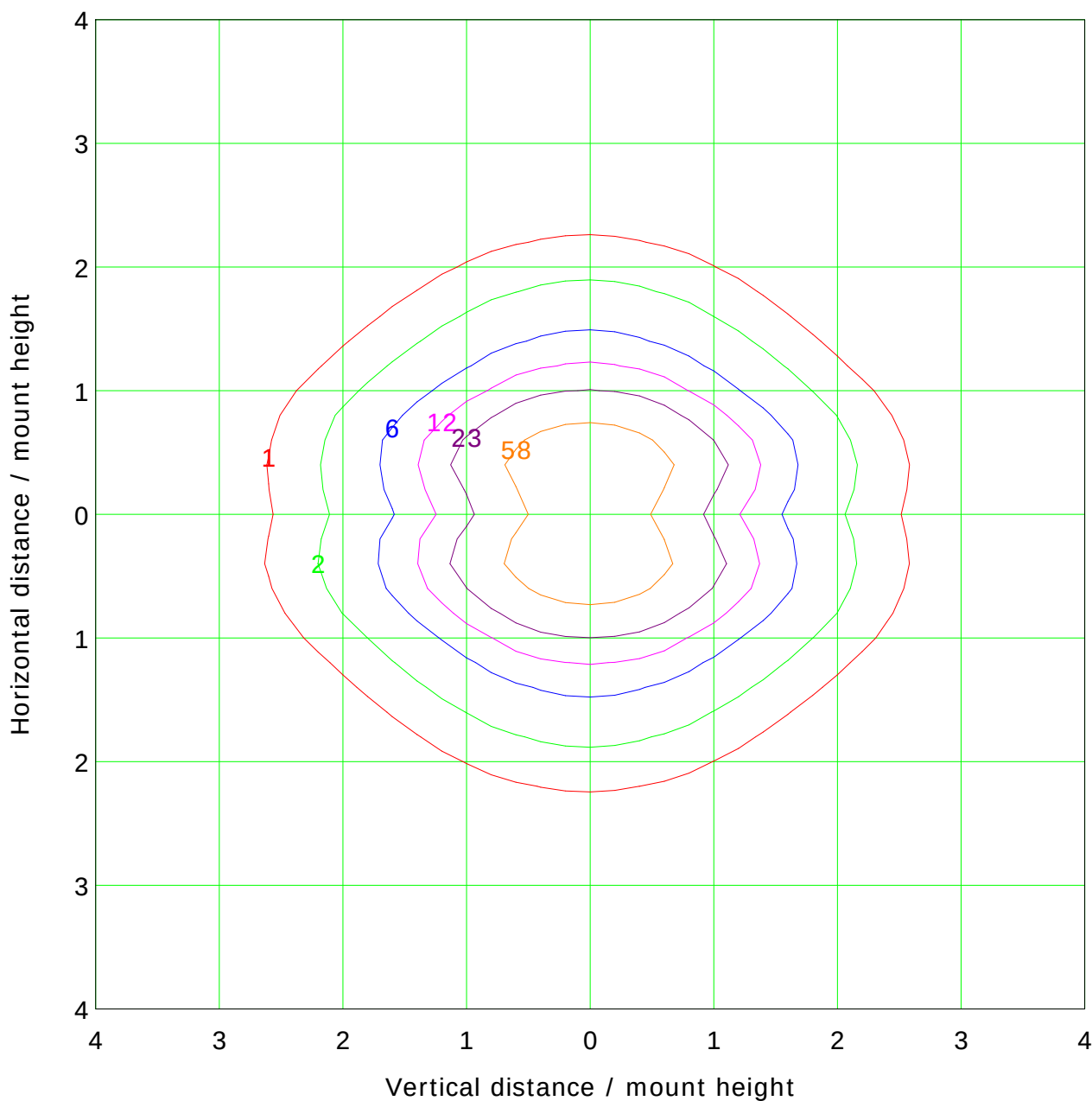
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 115.5 lx	
— (1%):	1.2 lx	— (2%):	2.3 lx
— (5%):	5.8 lx	— (10%):	11.5 lx
— (20%):	23.1 lx	— (50%):	57.7 lx
— (100%):	115.5 lx		

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

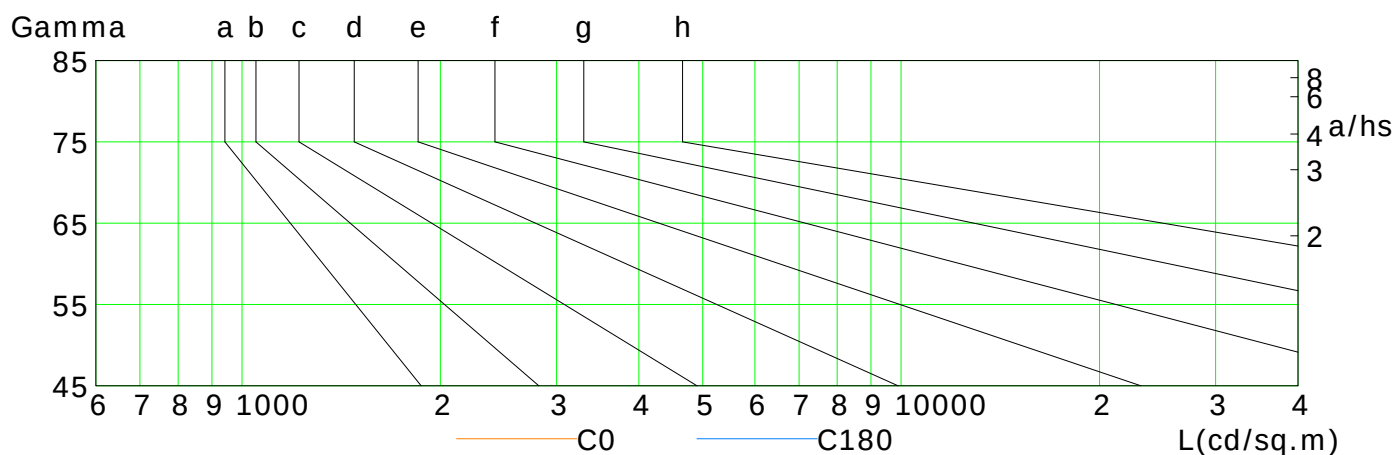
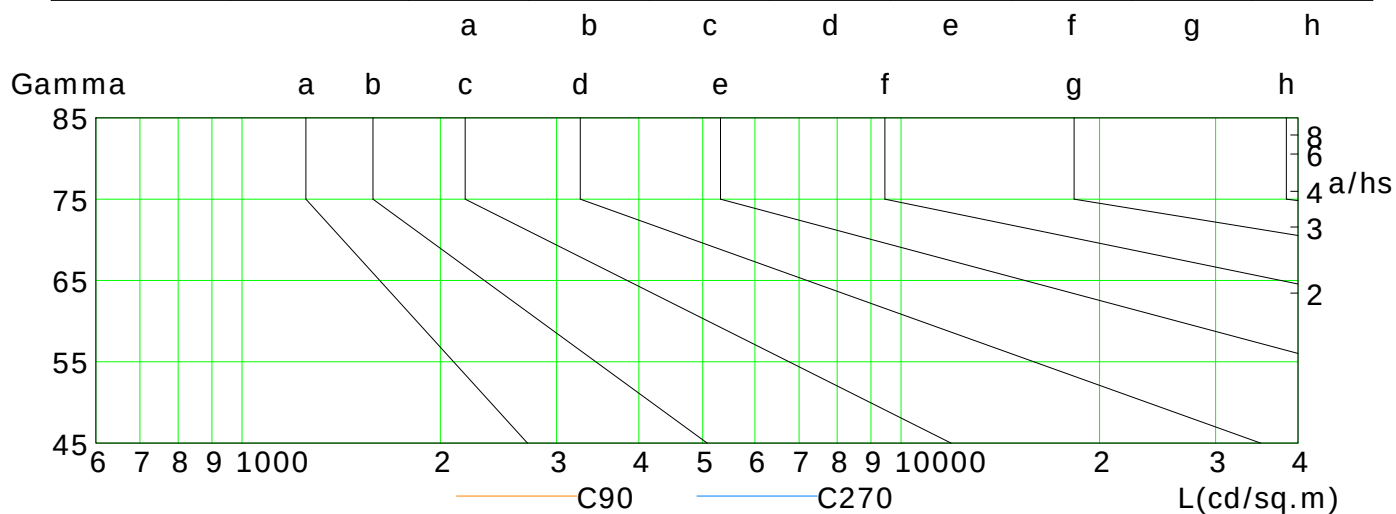
Distance: 7.979 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	221	192	165	139	114	89	67	43	18
C90	259	184	134	99	73	51	35	22	12
C180	210	180	154	129	106	83	63	42	19
C270	266	191	139	102	74	52	36	22	13

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

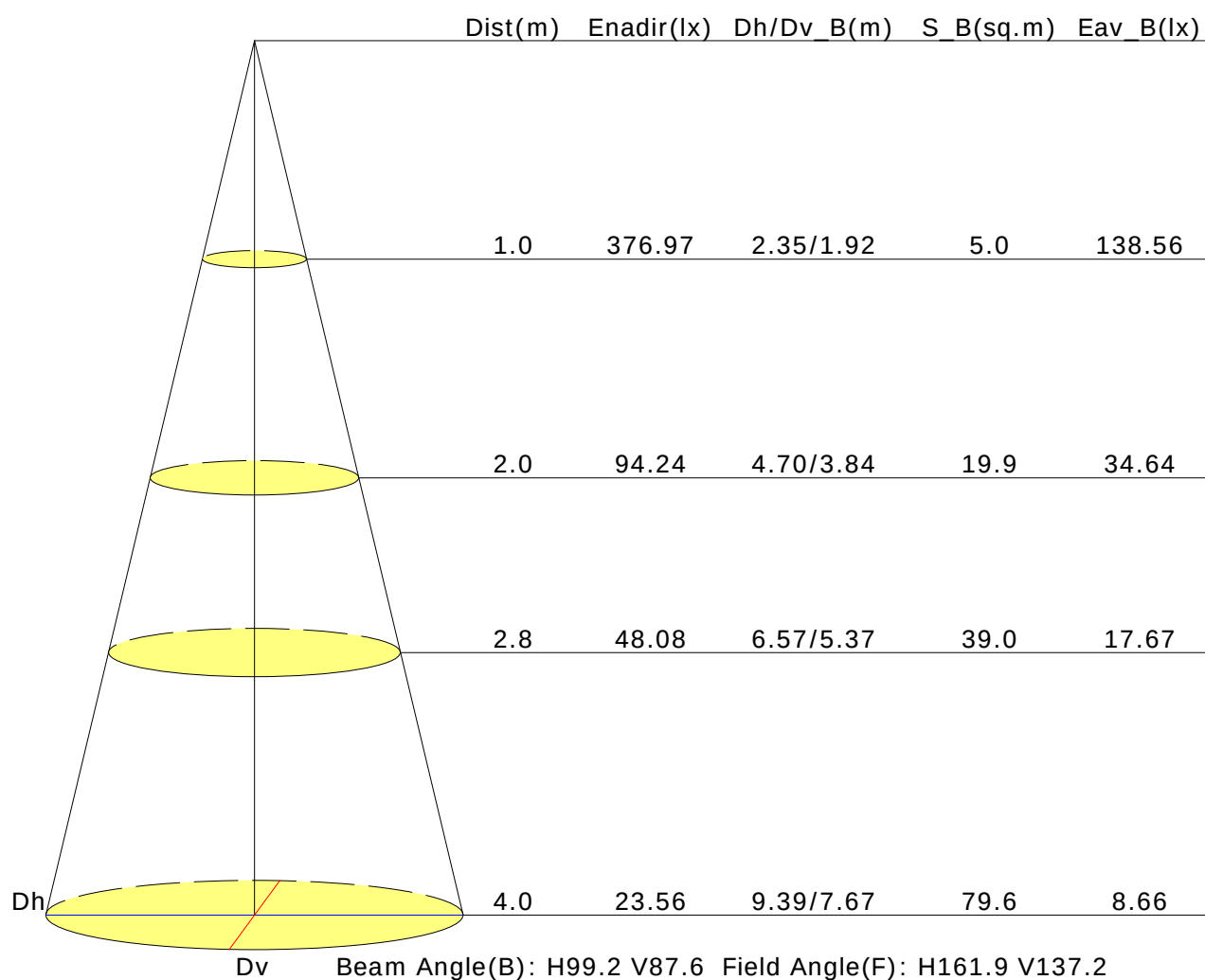
Test Device: GPM-1800B

Distance: 7.979 m

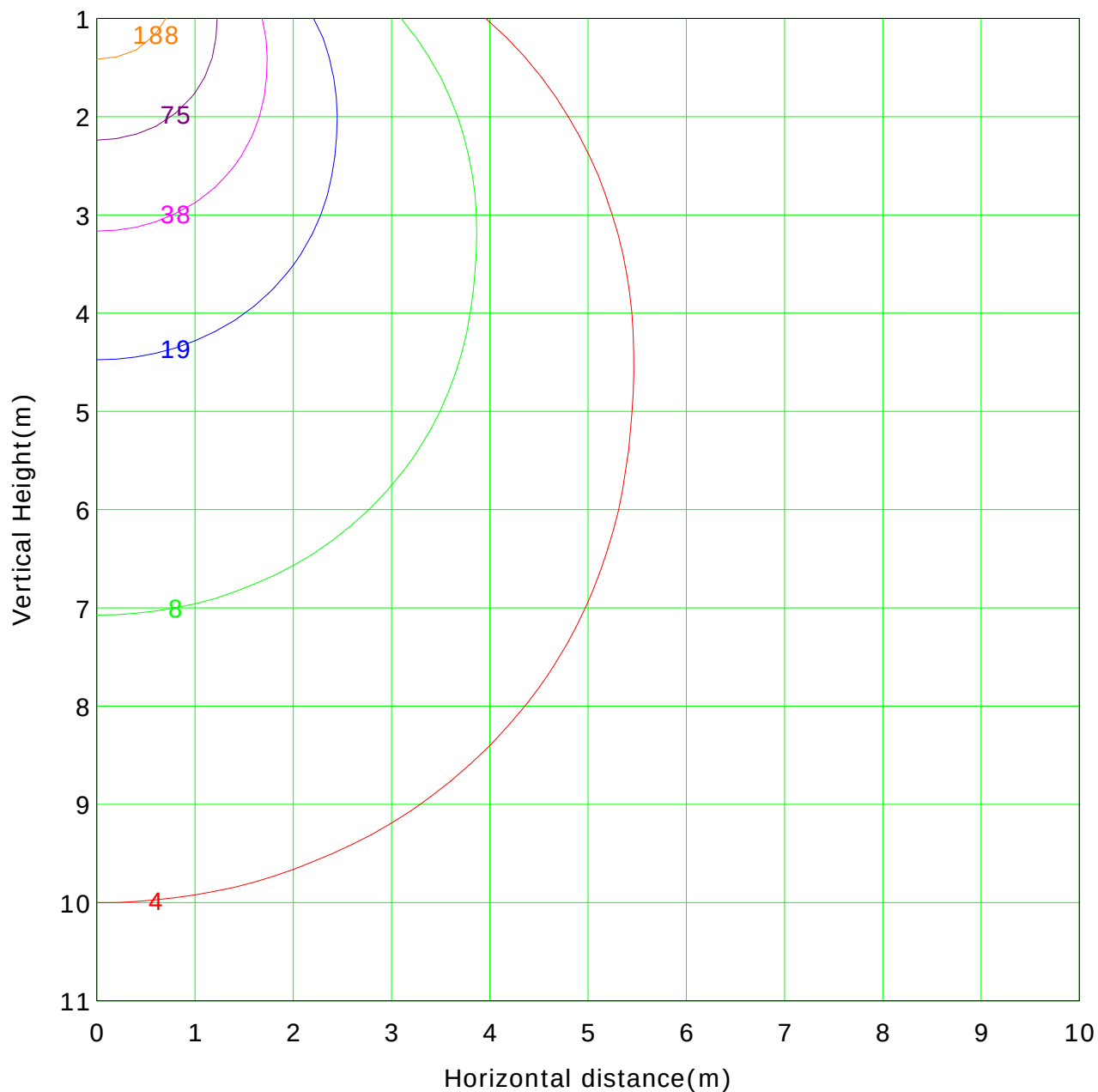
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 377.0 lx

— (1%): 3.8 lx	— (2%): 7.5 lx
— (5%): 18.8 lx	— (10%): 37.7 lx
— (20%): 75.4 lx	— (50%): 188.5 lx
— (100%): 377.0 lx	

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector: