

Report No.:

Test Time: 26/01/2022 17:35

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW15-03 + LLD-03-FK

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1579 lm

Voltage: 24.0 V

Current: 0.578 A

Power: 13.86 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 1209.4 lm

Downward Ratio: 76.48%

Total Rated Lamp Lumens: 1579.0 lm

Efficiency: 76.59%

Upward Ratio: 0.11%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.7, 143.6, 142.1, 142.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.6, 71.7, 90.8, 91.0

Luminaire Efficacy Rating (LER): 87.31

Central Intensity: 551.08 cd

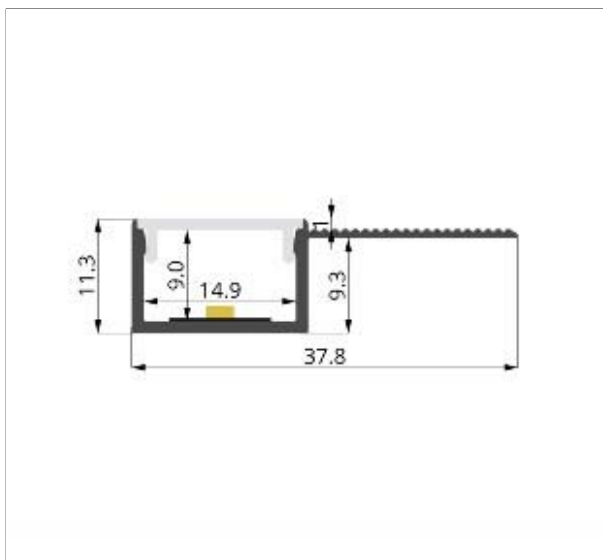
Max. Intensity: 551.56 cd

Pos of Max. Intensity: H0 V2

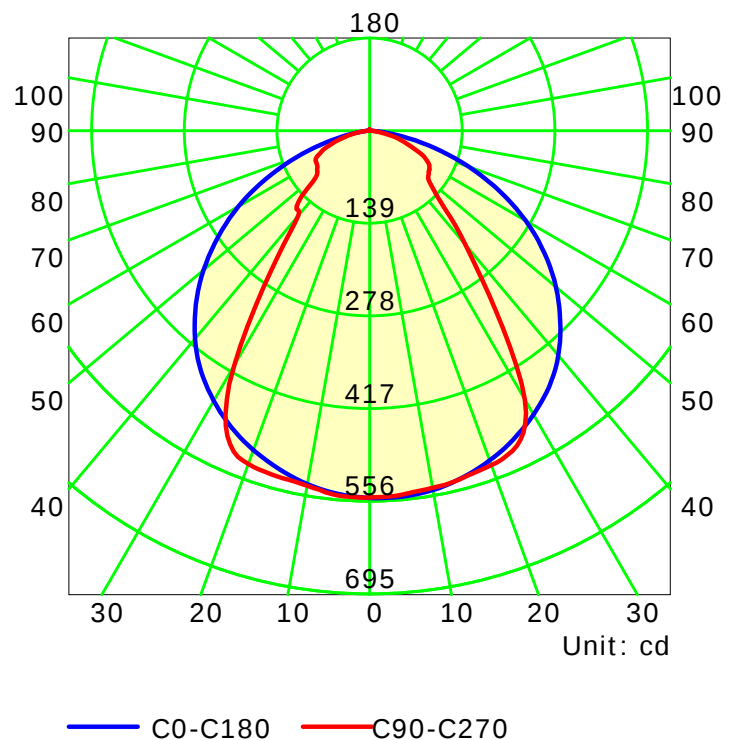
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.17

Picture Of Luminaire



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

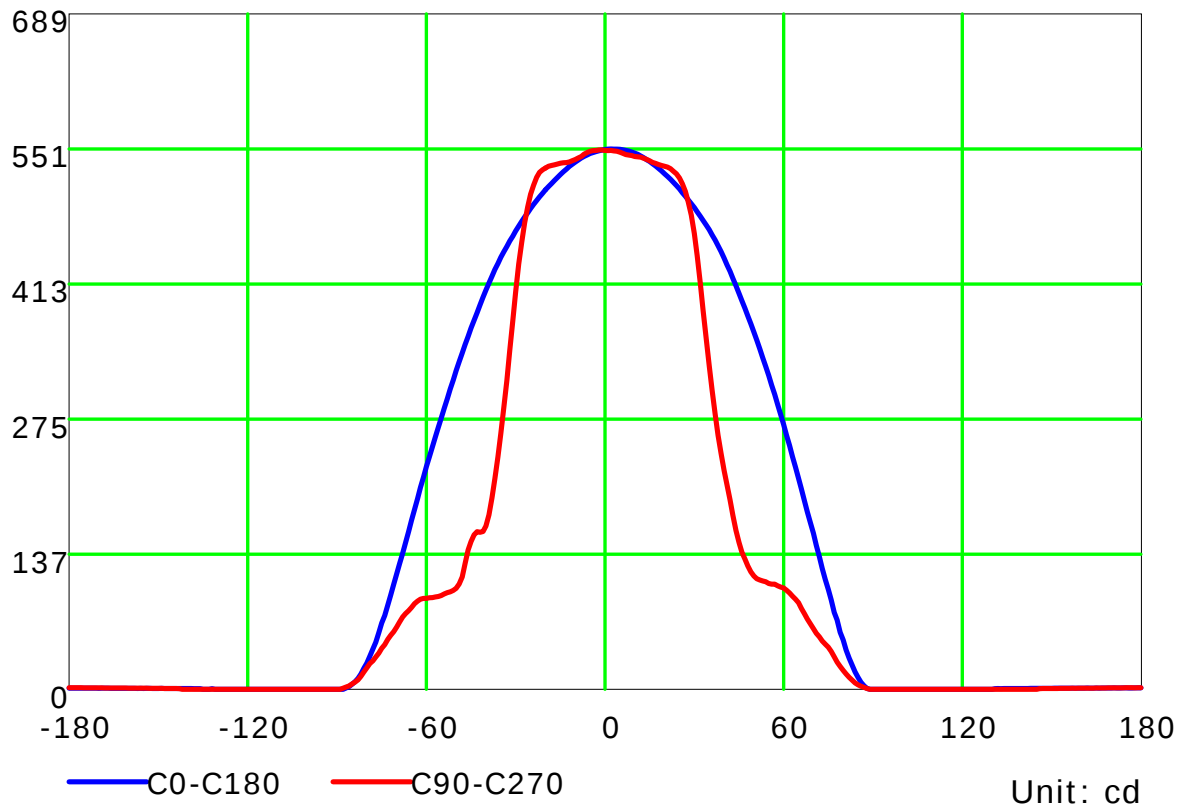
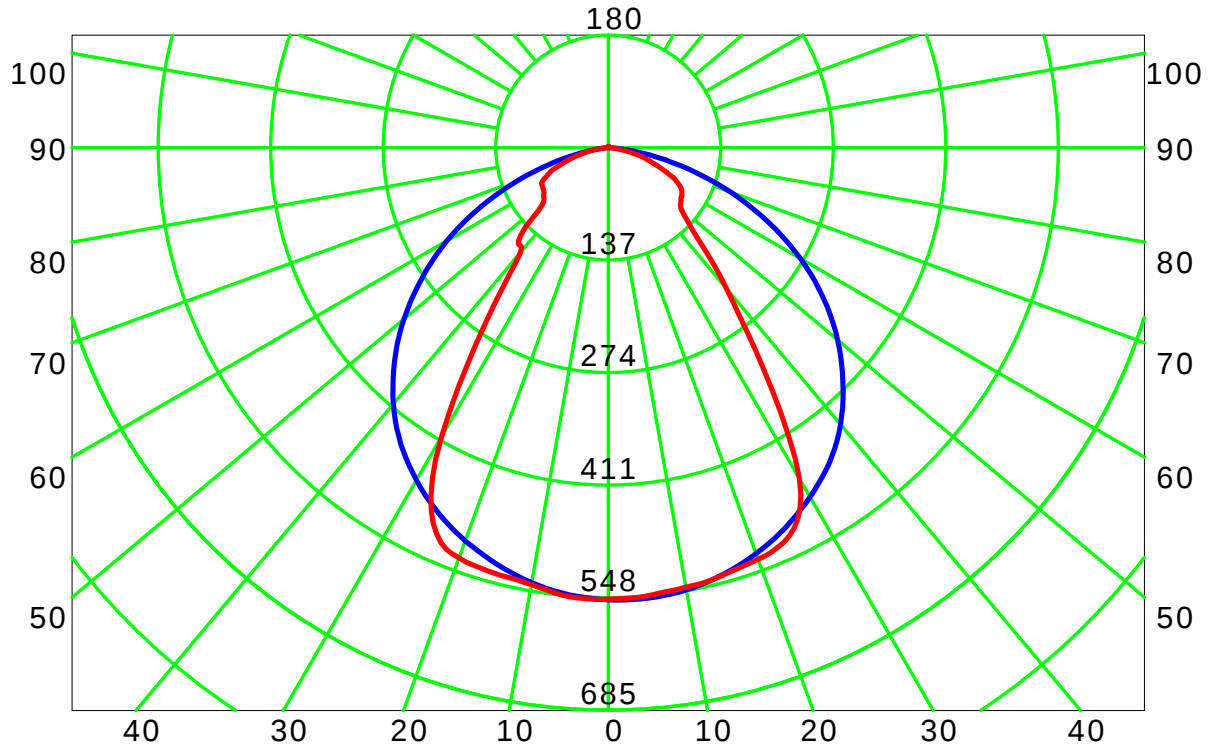
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

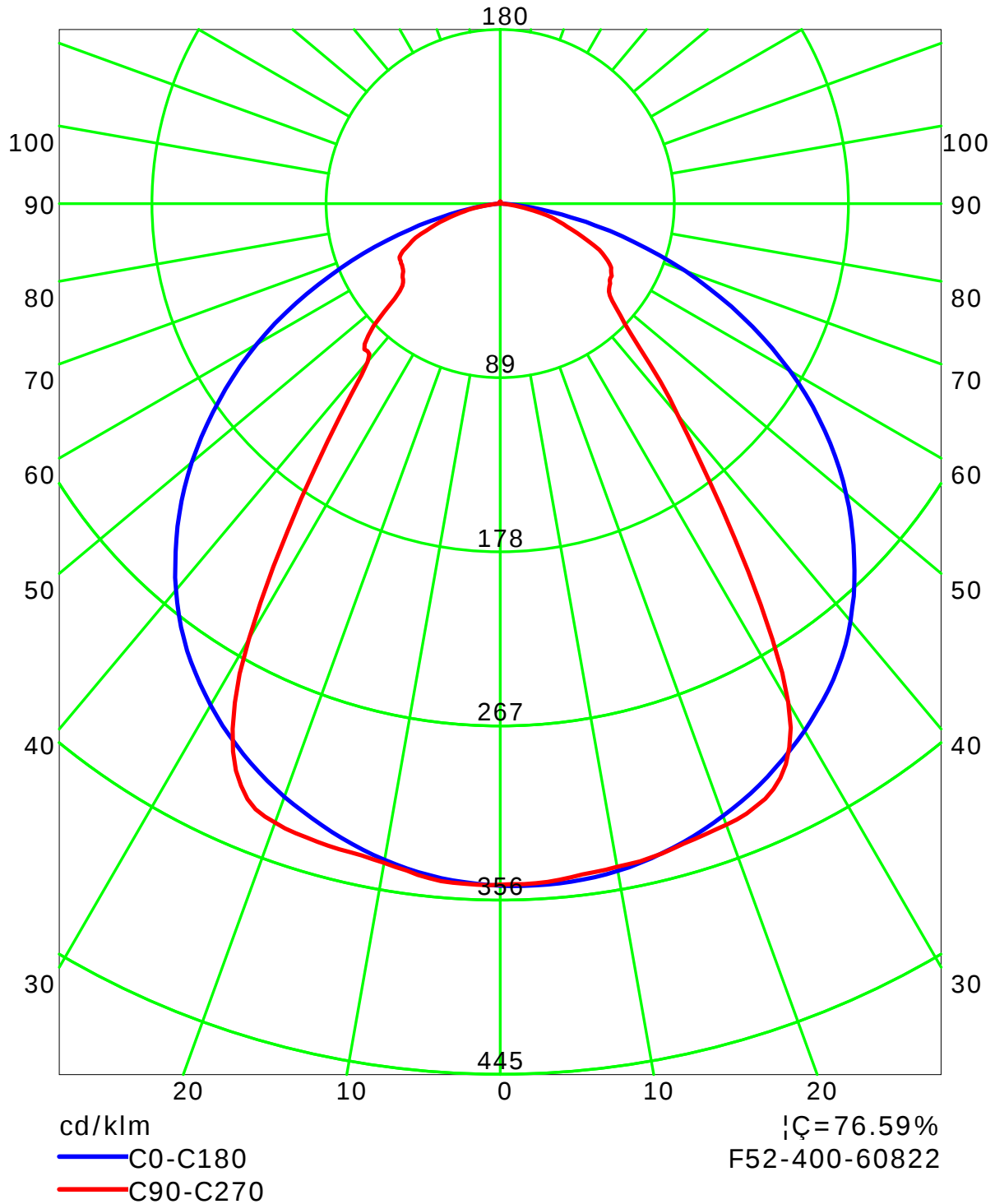
Luminous Intensity Distribution Curve



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:

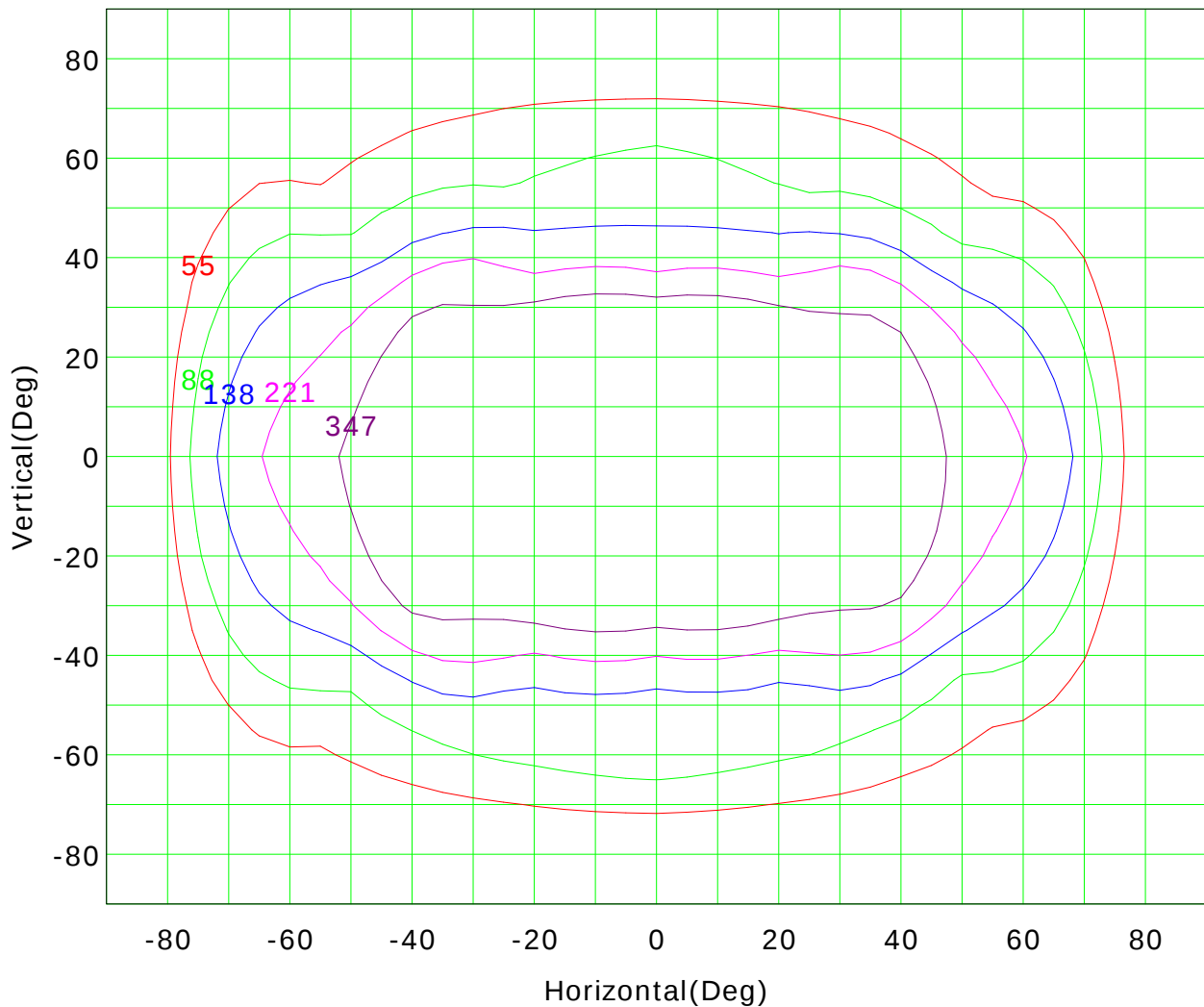
Luminous Intensity Distribution Curve(cd / klm)



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%): 552 cd

(10%):	55 cd	(16%):	88 cd
(25%):	138 cd	(40%):	221 cd
(63%):	347 cd	(100%):	552 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

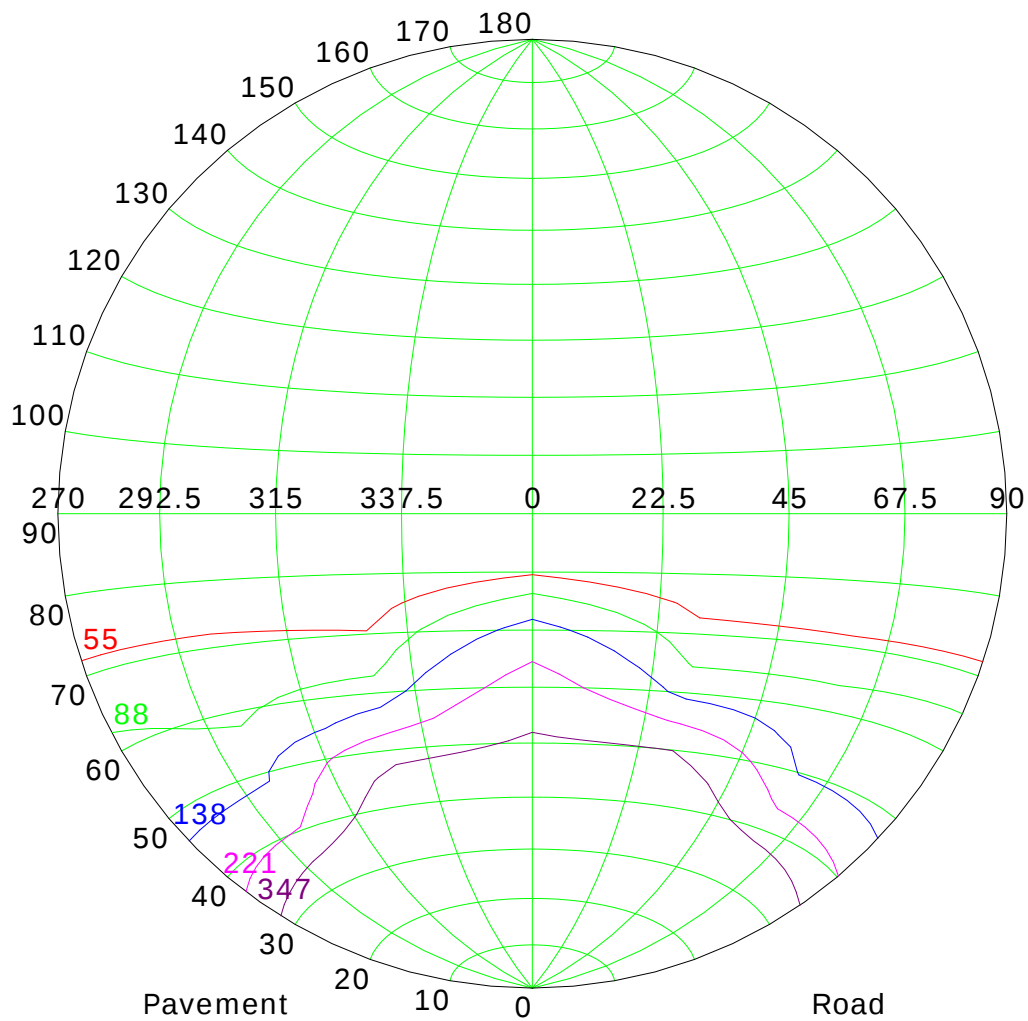
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 552 cd

(10%):	55 cd	(16%):	88 cd
(25%):	138 cd	(40%):	221 cd
(63%):	347 cd	(100%):	552 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

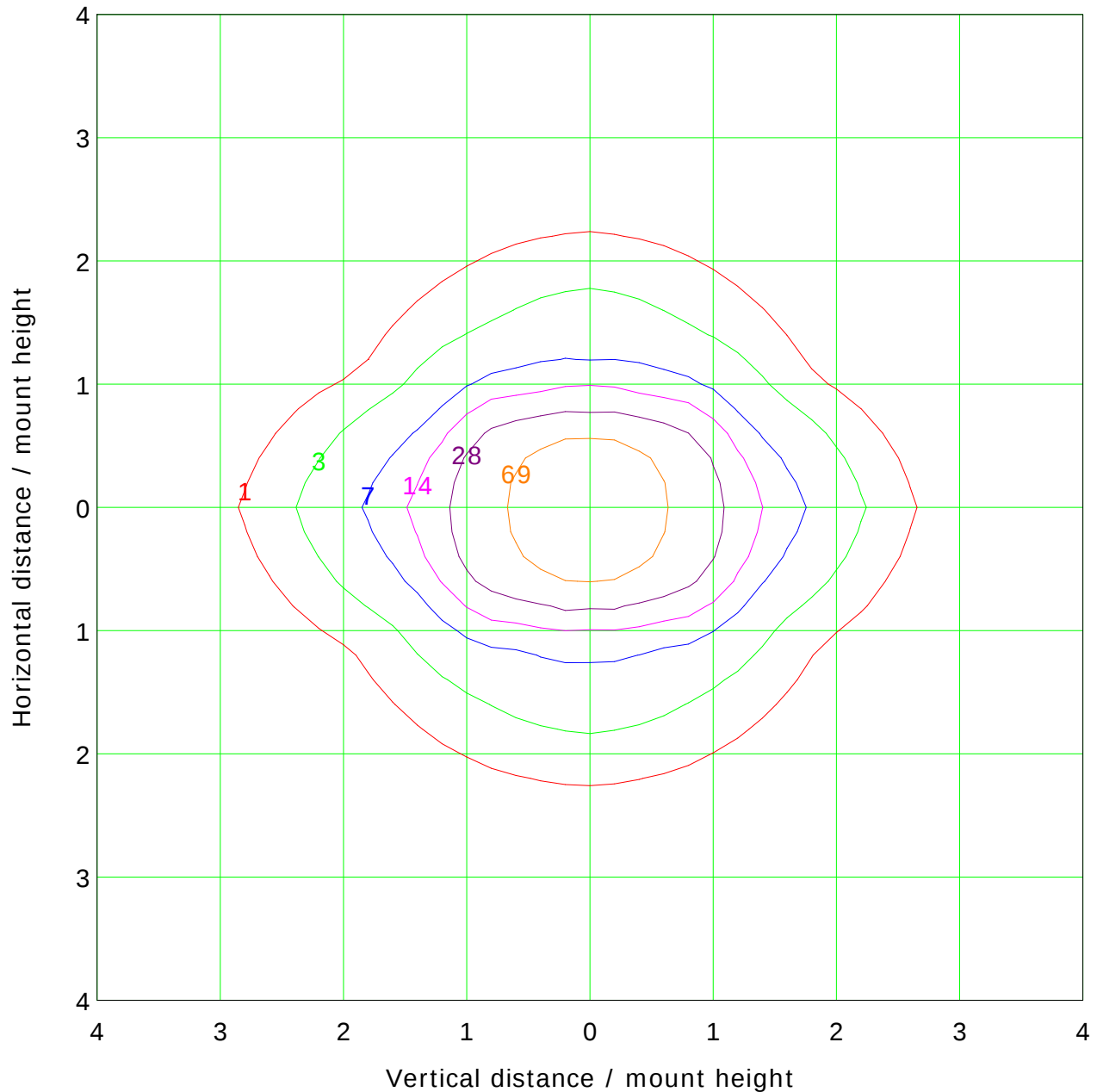
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m Max Lux(100%): 137.8 lx

(1%): 1.4 lx	(2%): 2.8 lx
(5%): 6.9 lx	(10%): 13.8 lx
(20%): 27.6 lx	(50%): 68.9 lx
(100%): 137.8 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

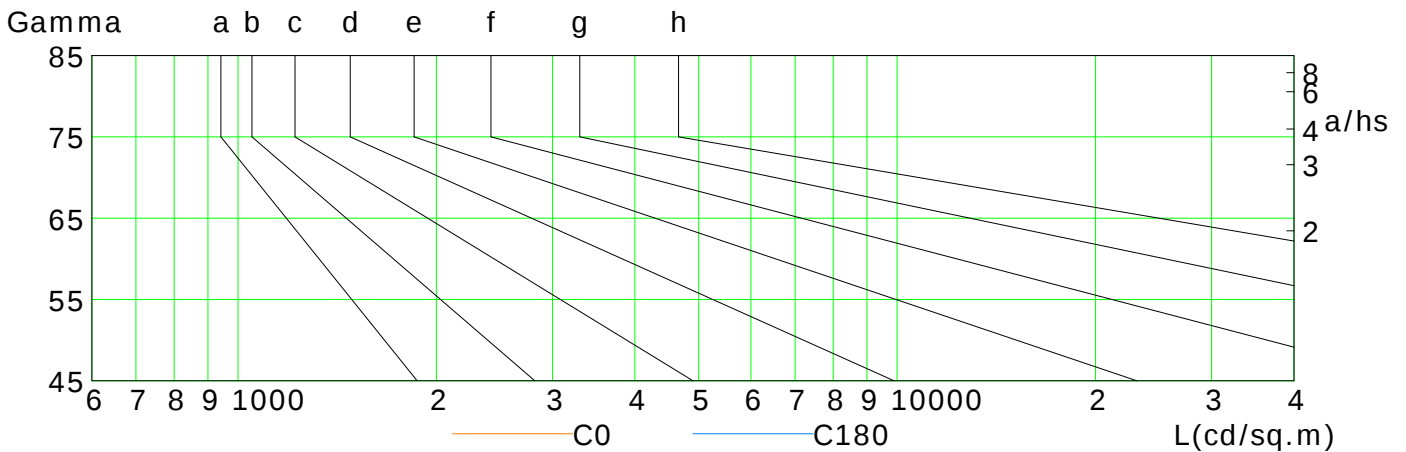
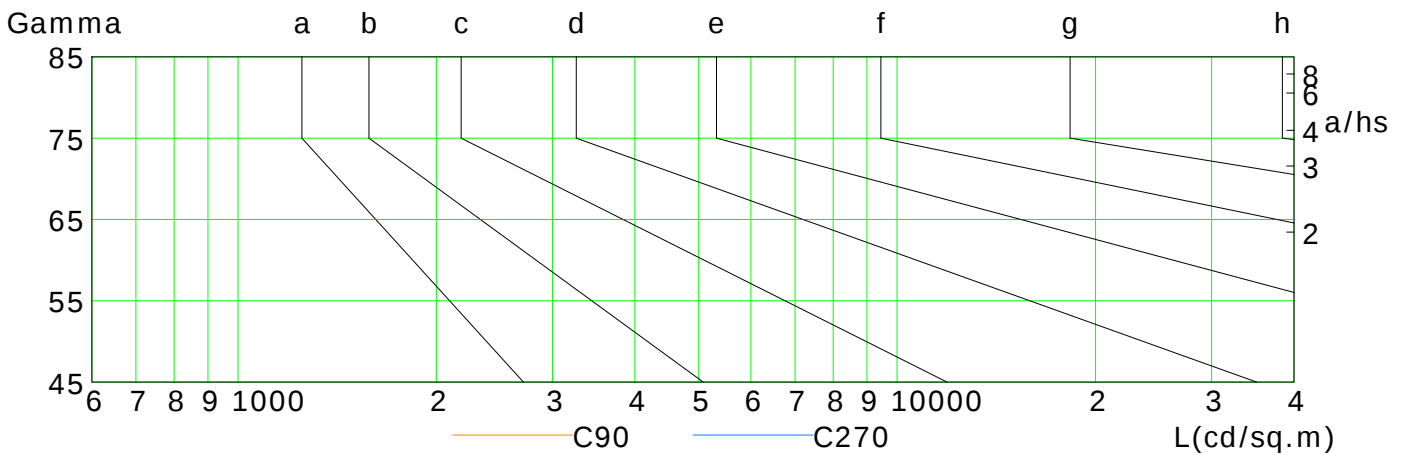
Humidity:

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	404	365	320	270	215	159	102	50	12
C90	150	116	108	104	88	62	43	19	5
C180	369	325	277	227	172	117	68	27	5
C270	151	103	96	93	84	63	42	22	5

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

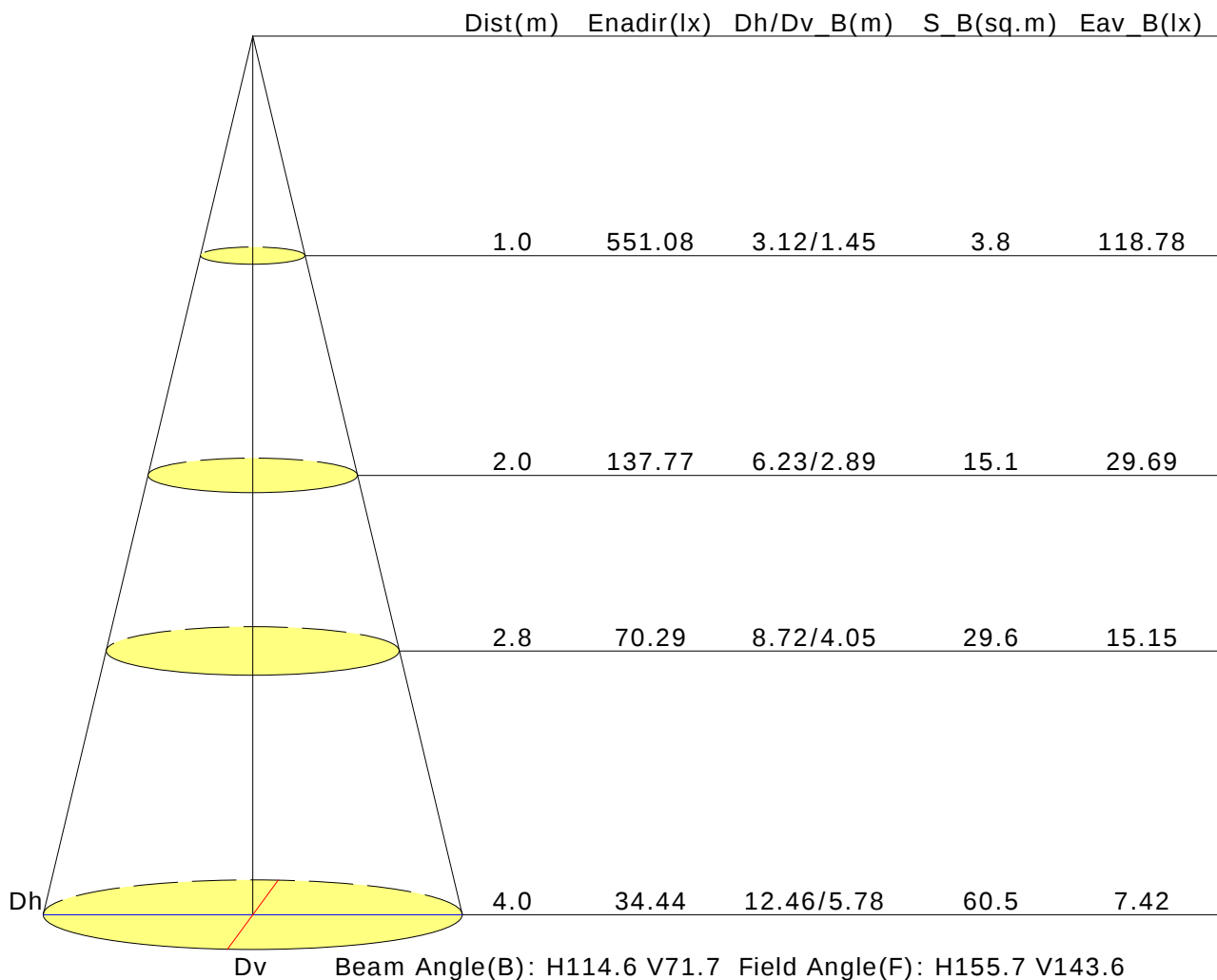
Test Device: GPM-1800B

Distance: 7.979 m

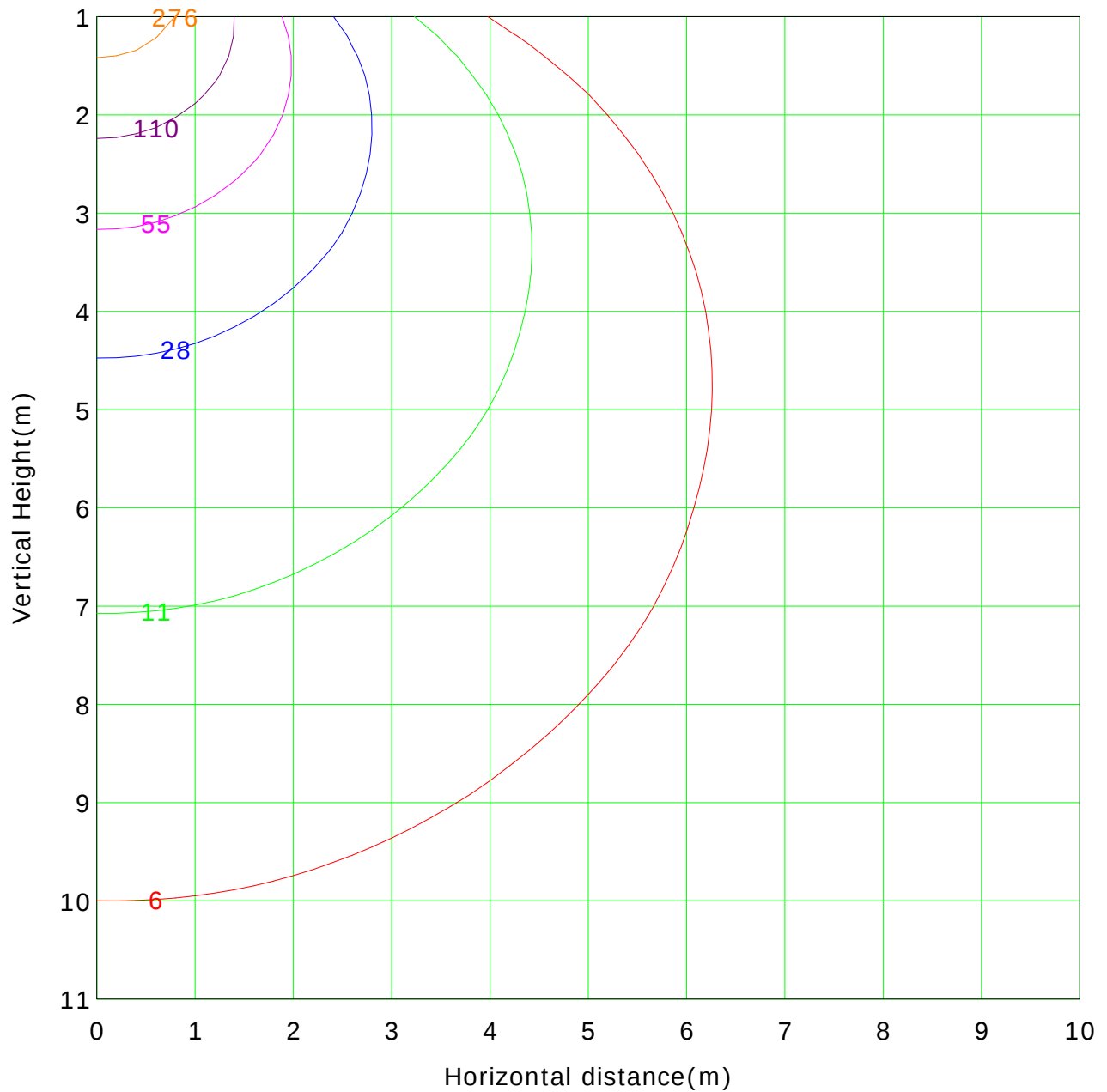
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 551.1 lx

(1%): 5.5 lx	(2%): 11.0 lx
(5%): 27.6 lx	(10%): 55.1 lx
(20%): 110.2 lx	(50%): 275.5 lx
(100%): 551.1 lx	

Report No.:

Test Time: 26/01/2022 17:01

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW15-03 + LLD-03-FH

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1579 lm

Voltage: 24.0 V

Current: 0.578 A

Power: 13.86 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 1159.4 lm

Downward Ratio: 73.35%

Total Rated Lamp Lumens: 1579.0 lm

Efficiency: 73.42%

Upward Ratio: 0.07%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 153.5, 145.9, 148.8, 148.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 101.3, 77.8, 88.0, 87.9

Luminaire Efficacy Rating (LER): 83.70

Central Intensity: 538.81 cd

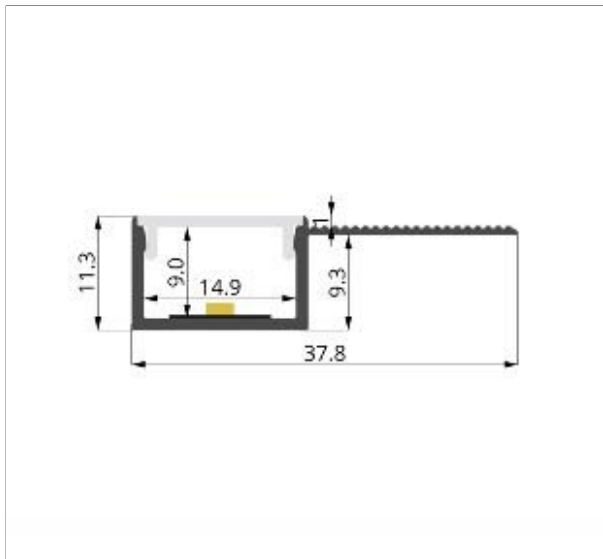
Max. Intensity: 539.17 cd

Pos of Max. Intensity: H180 V2

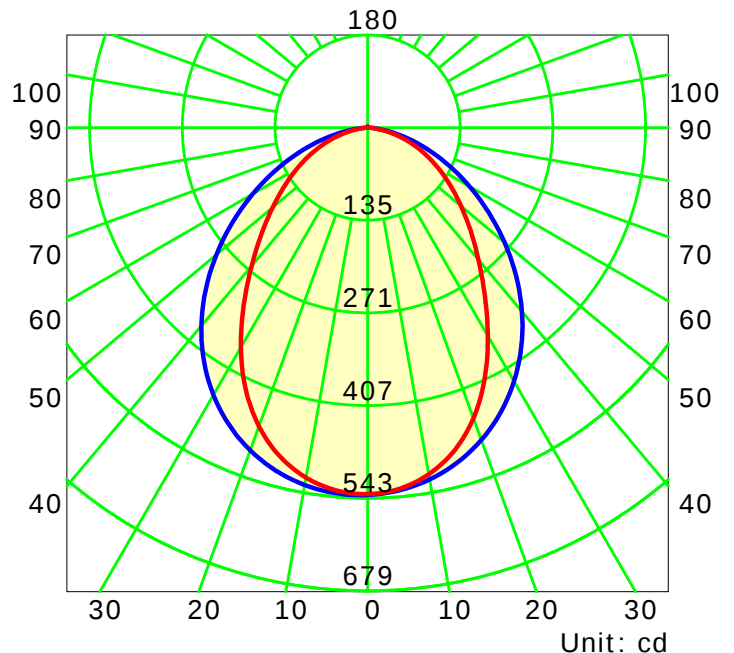
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.05

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

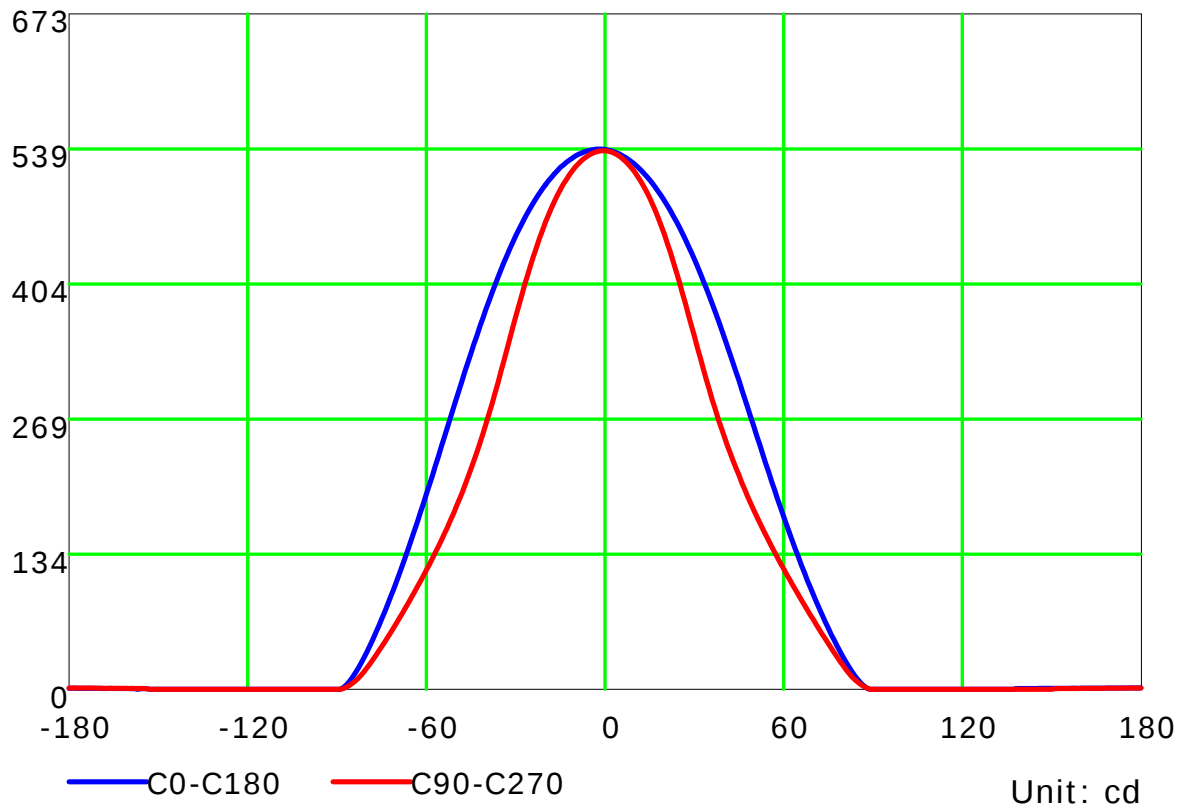
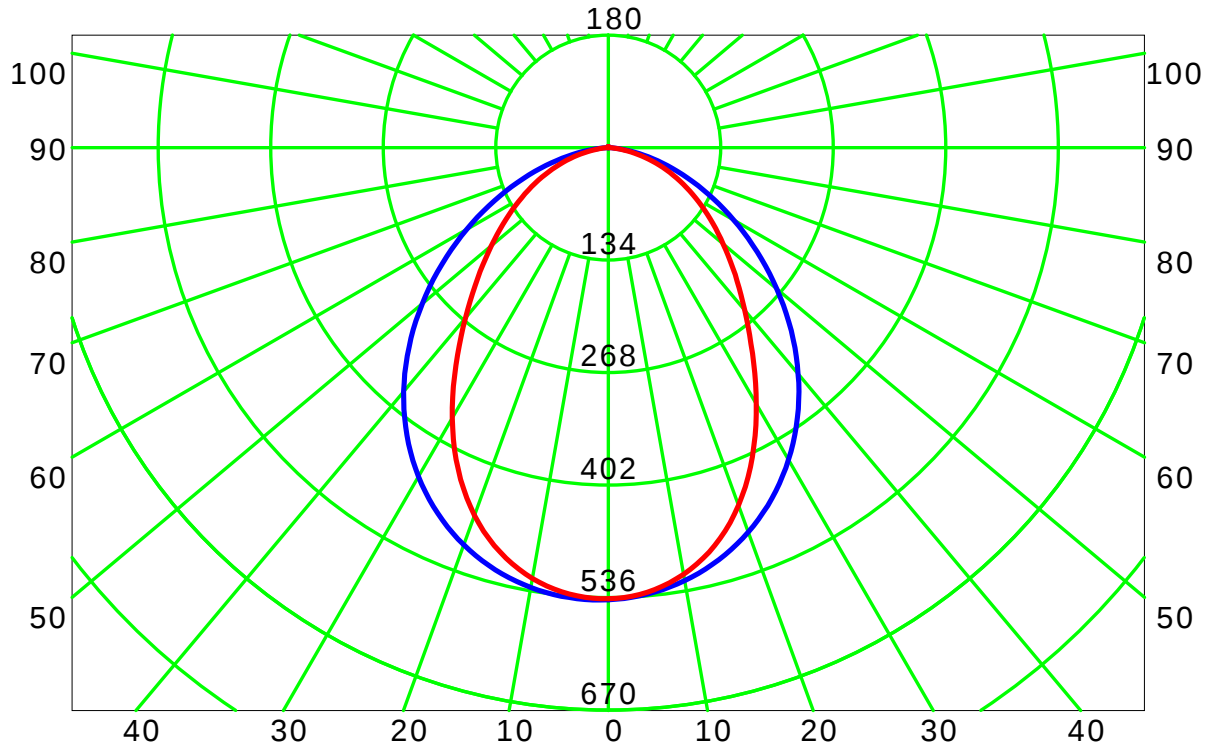
Test Device: GPM-1800B

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

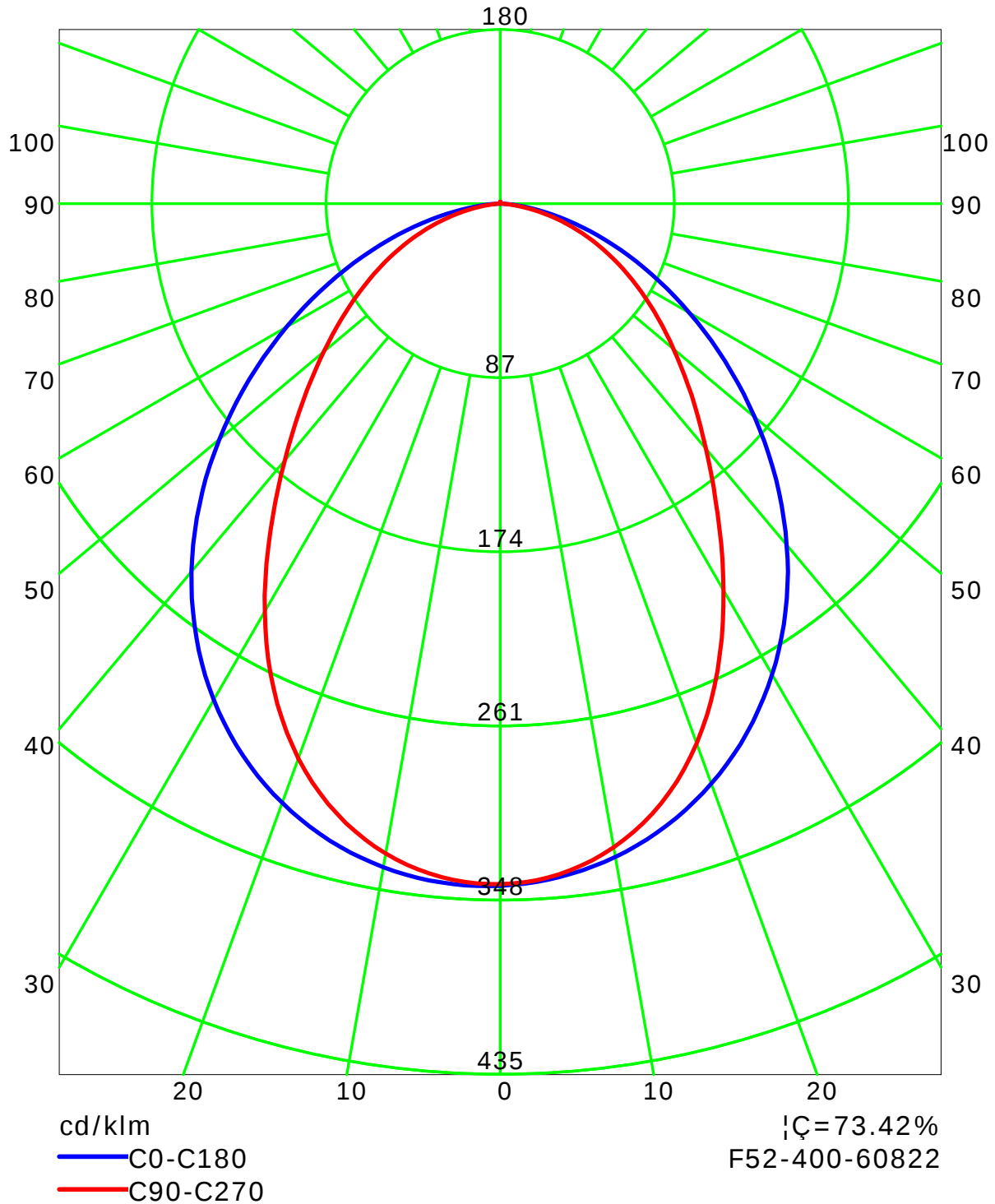
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

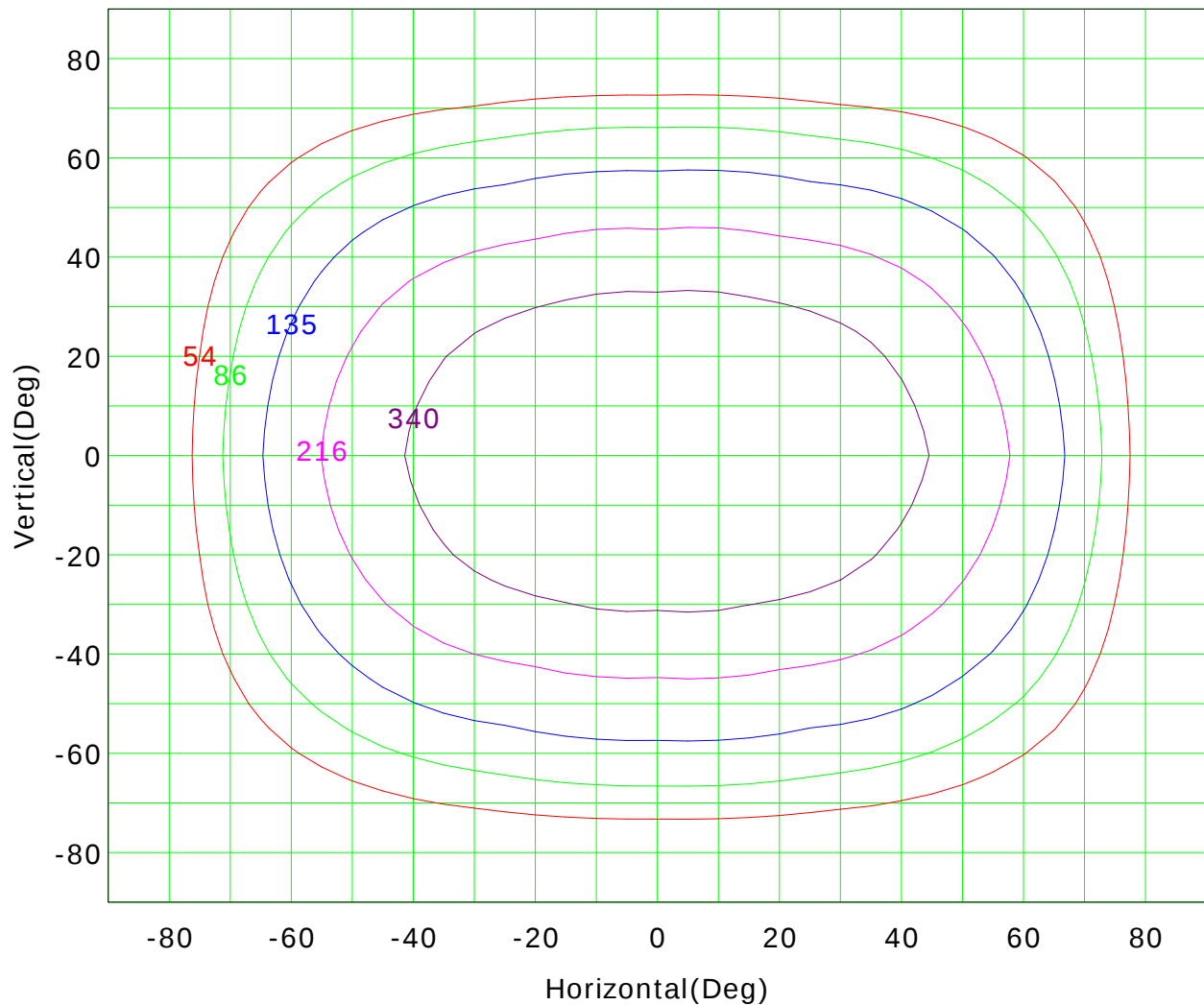
Luminous Intensity Distribution Curve(cd / klm)



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%): 539 cd

(10%):	54 cd	(16%):	86 cd
(25%):	135 cd	(40%):	216 cd
(63%):	340 cd	(100%):	539 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

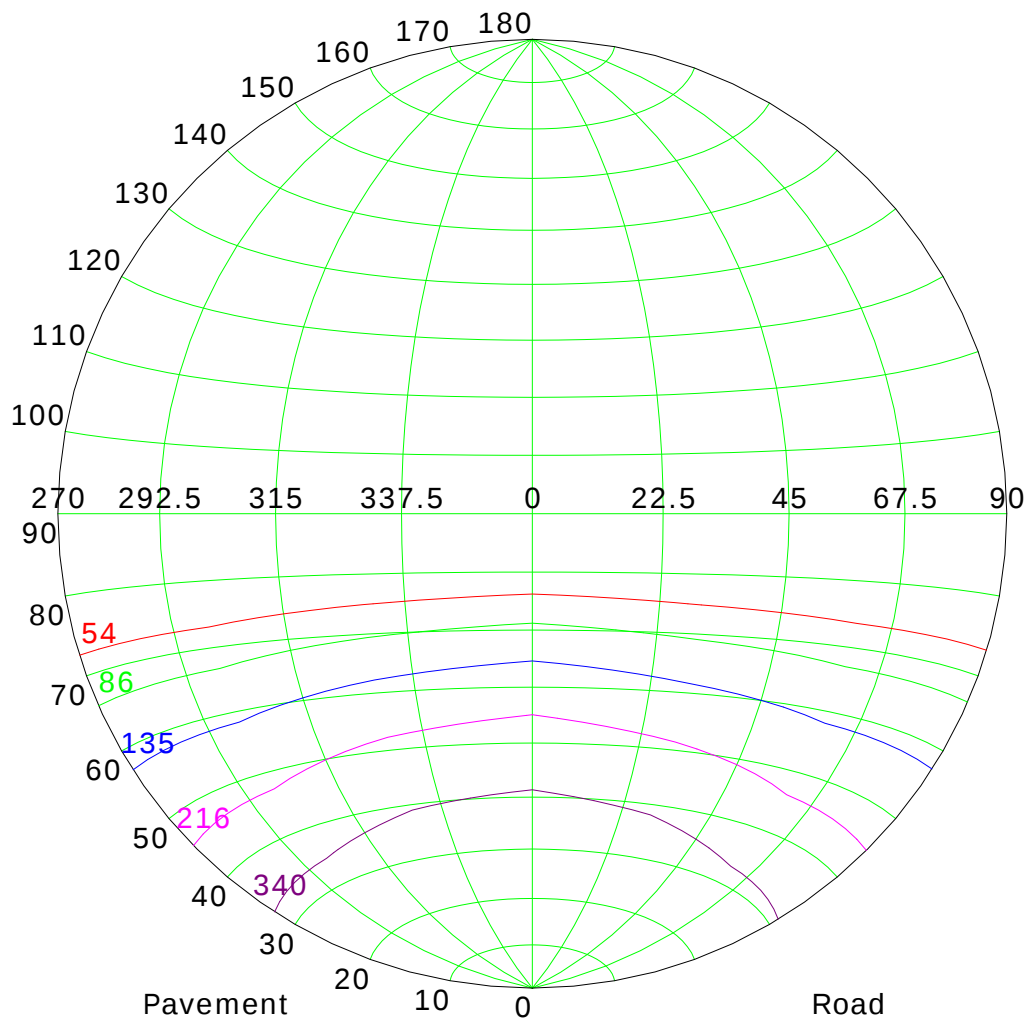
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 539 cd

(10%):	54 cd	(16%):	86 cd
(25%):	135 cd	(40%):	216 cd
(63%):	340 cd	(100%):	539 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

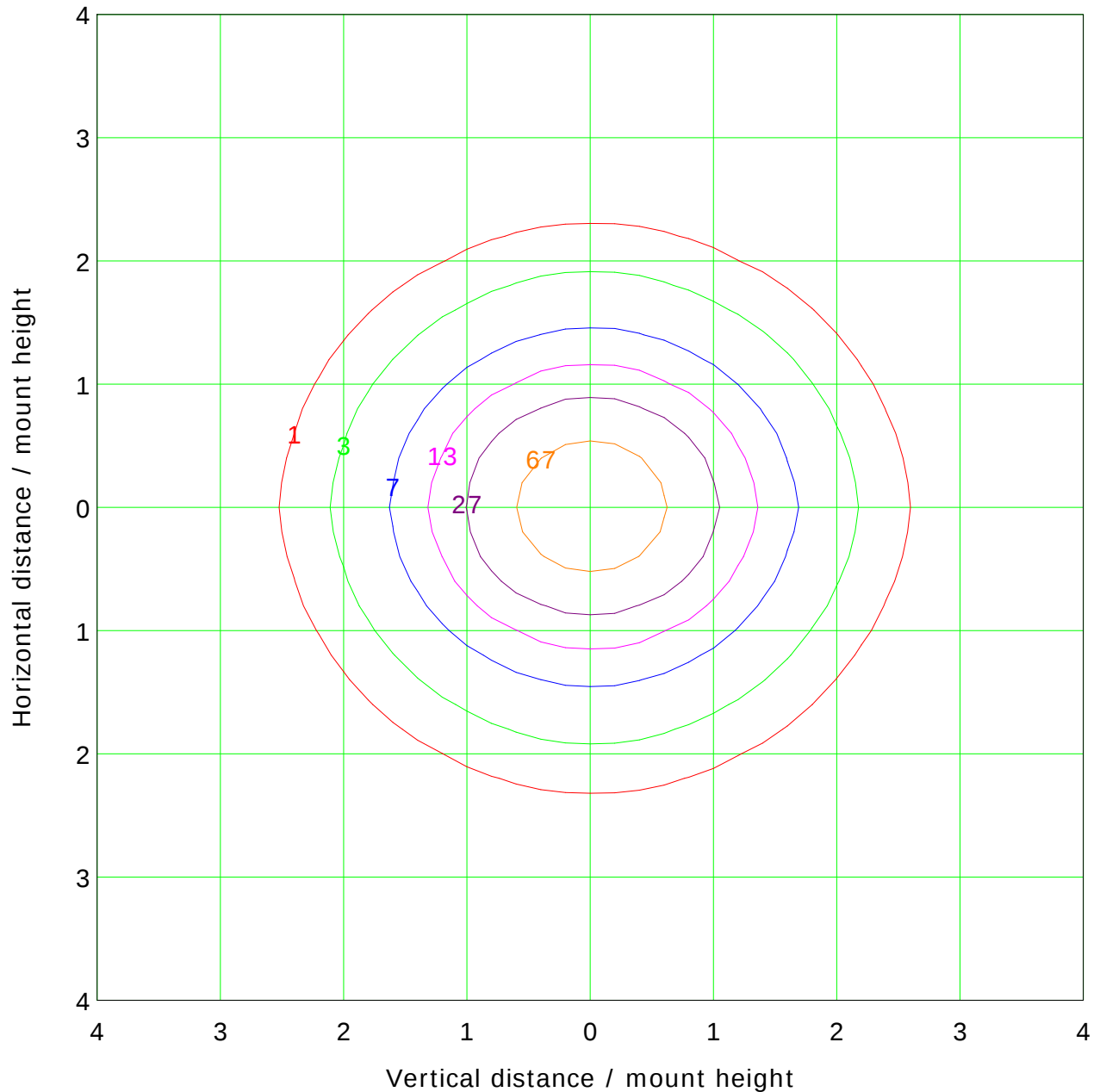
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 134.7 lx	
— (1%):	1.3 lx	— (2%):	2.7 lx
— (5%):	6.7 lx	— (10%):	13.5 lx
— (20%):	26.9 lx	— (50%):	67.4 lx
— (100%):	134.7 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

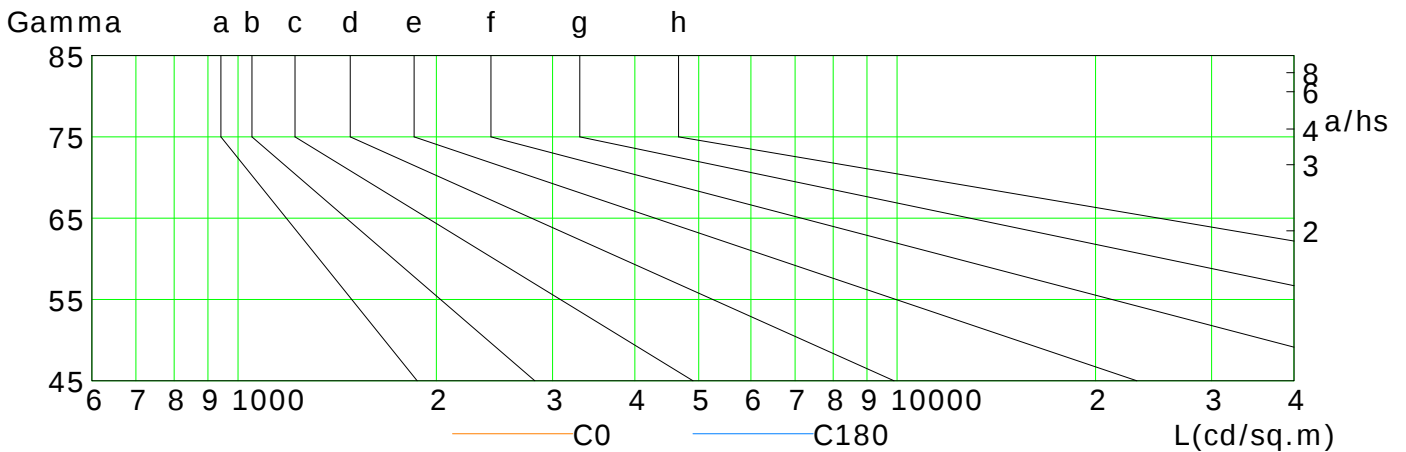
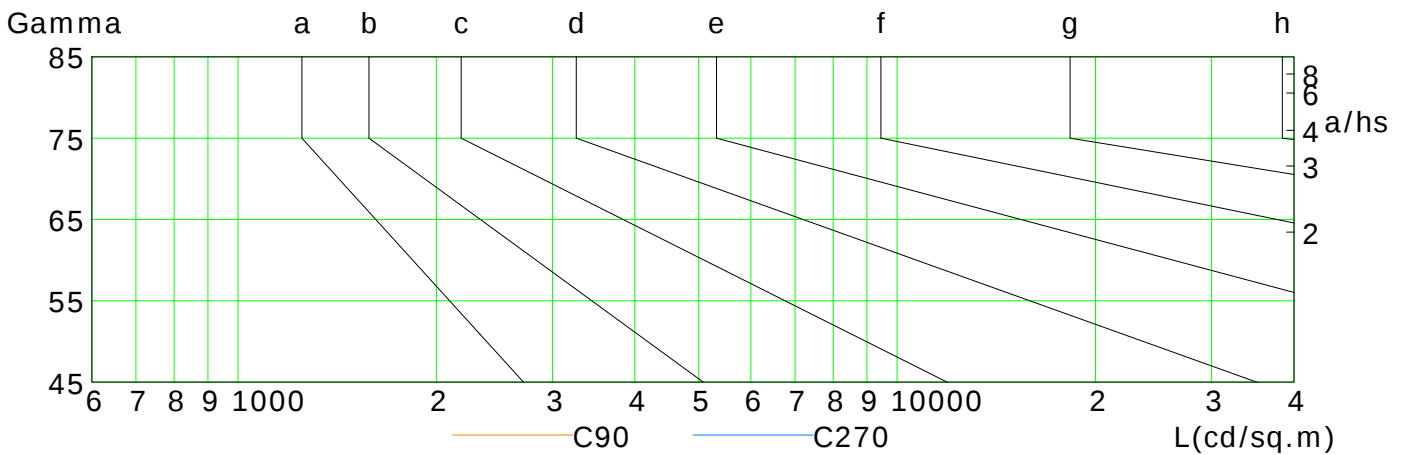
Humidity:

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	308	262	217	172	132	94	61	32	10
C90	214	179	148	120	94	70	46	24	7
C180	336	289	242	195	150	108	70	37	11
C270	220	182	149	119	92	66	43	21	6

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

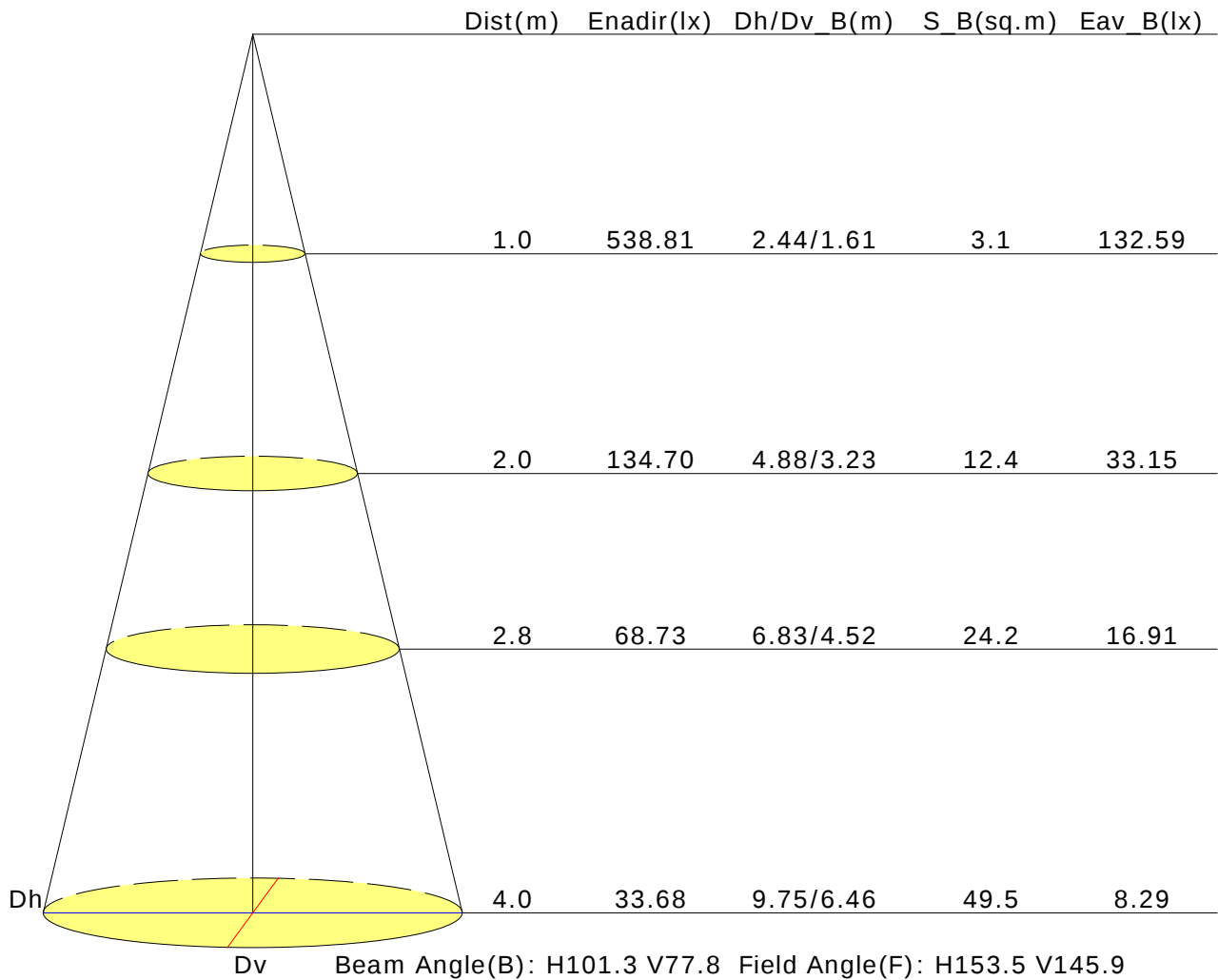
Test Device: GPM-1800B

Distance: 7.979 m

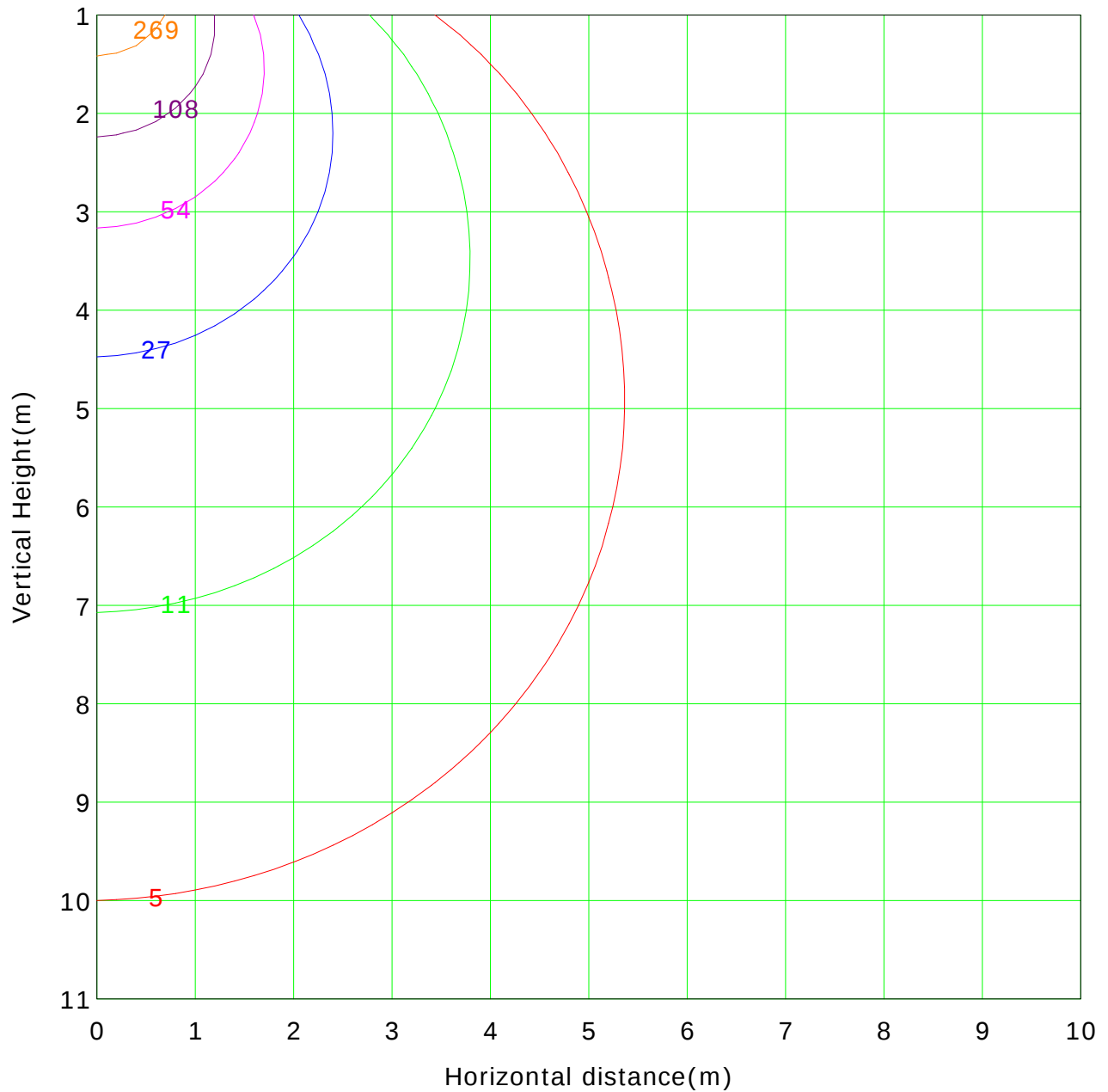
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 538.8 lx

(1%): 5.4 lx	(2%): 10.8 lx
(5%): 26.9 lx	(10%): 53.9 lx
(20%): 107.8 lx	(50%): 269.4 lx
(100%): 538.8 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: 25/01/2022 16:03

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW15-03 + LLD-03-FM

Lamp Catalog: F52-400-60822

Number of Lamps: 1579 lm

Current: 0.575 A

Power Factor: 1.000

Lamp Description: 1

Voltage: 24.0 V

Power: 13.80 W

Photometric Results

CIE Class: Direct

Measurement Flux: 937 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.9, 159.2, 159.5, 159.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.6, 110.0, 110.8, 110.8

Luminaire Efficacy Rating (LER): 67.95

Max. Intensity: 336.21 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 937.0 lm

Efficiency: 100%

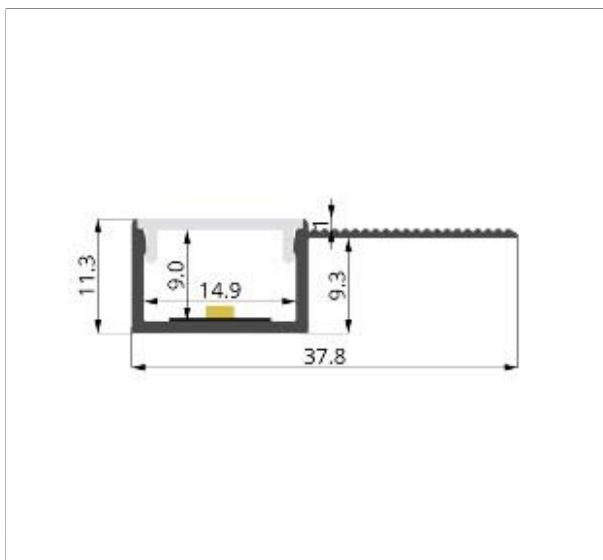
Upward Ratio: 0%

Central Intensity: 336.21 cd

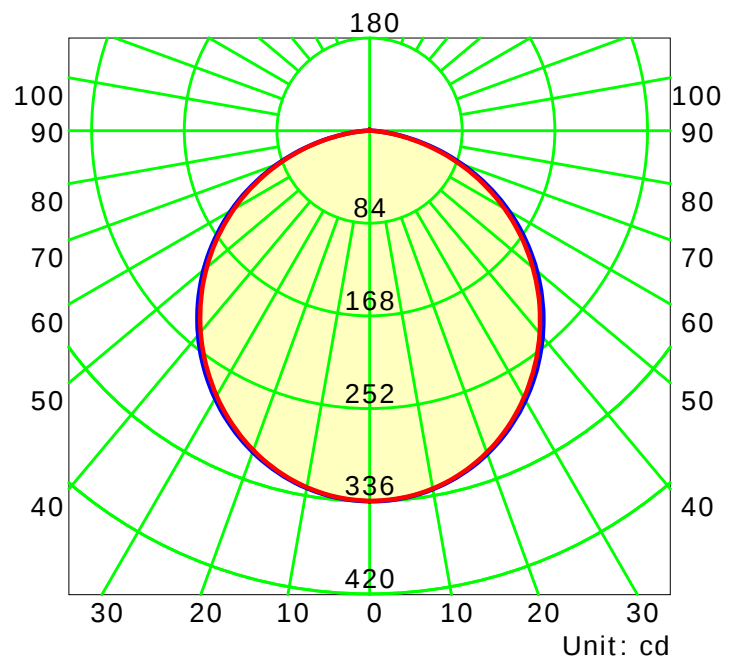
Pos of Max. Intensity: H0 V0

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

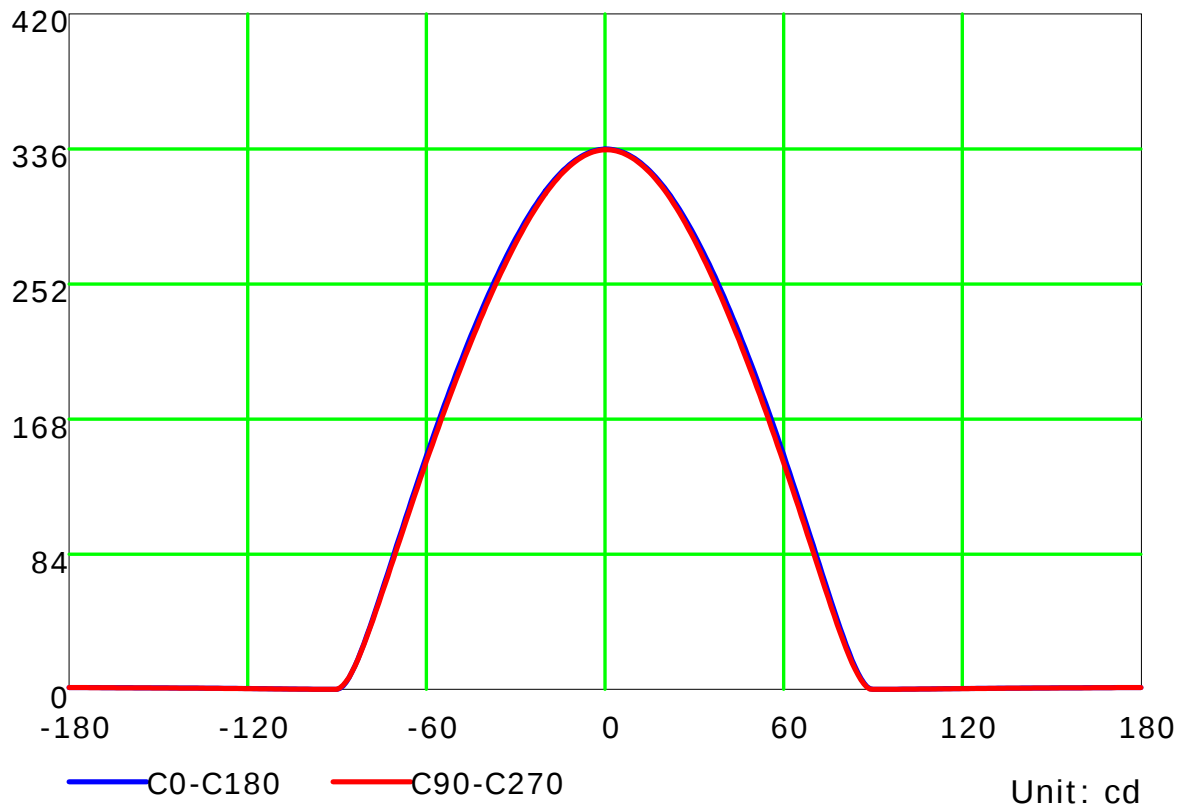
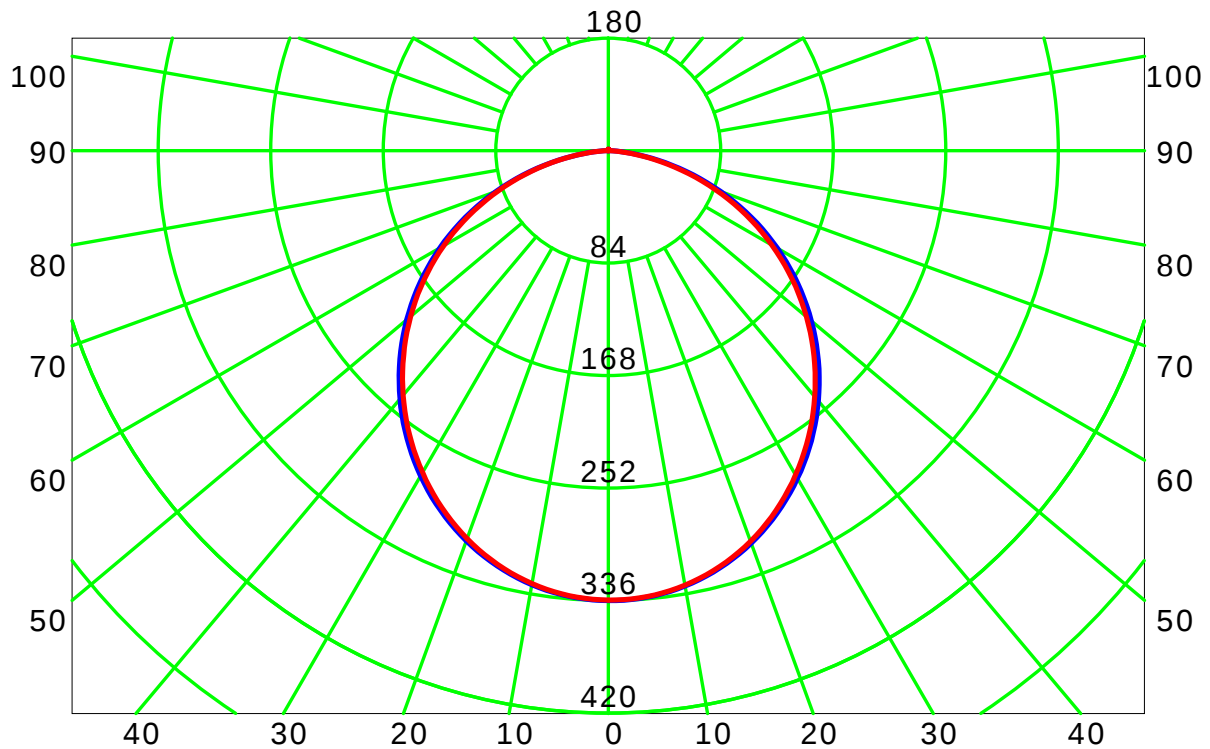
Test Device: GPM-1800B

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

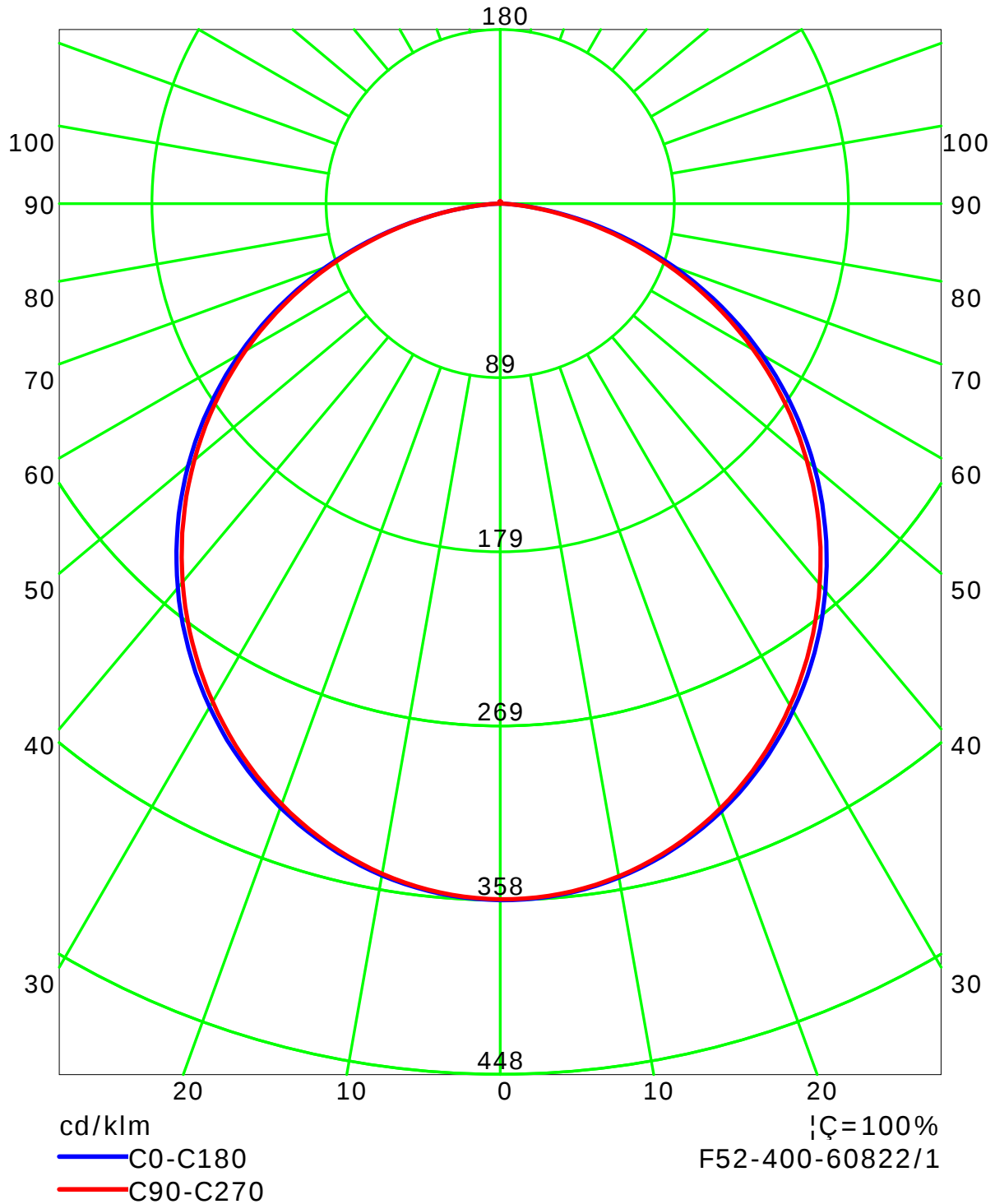
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

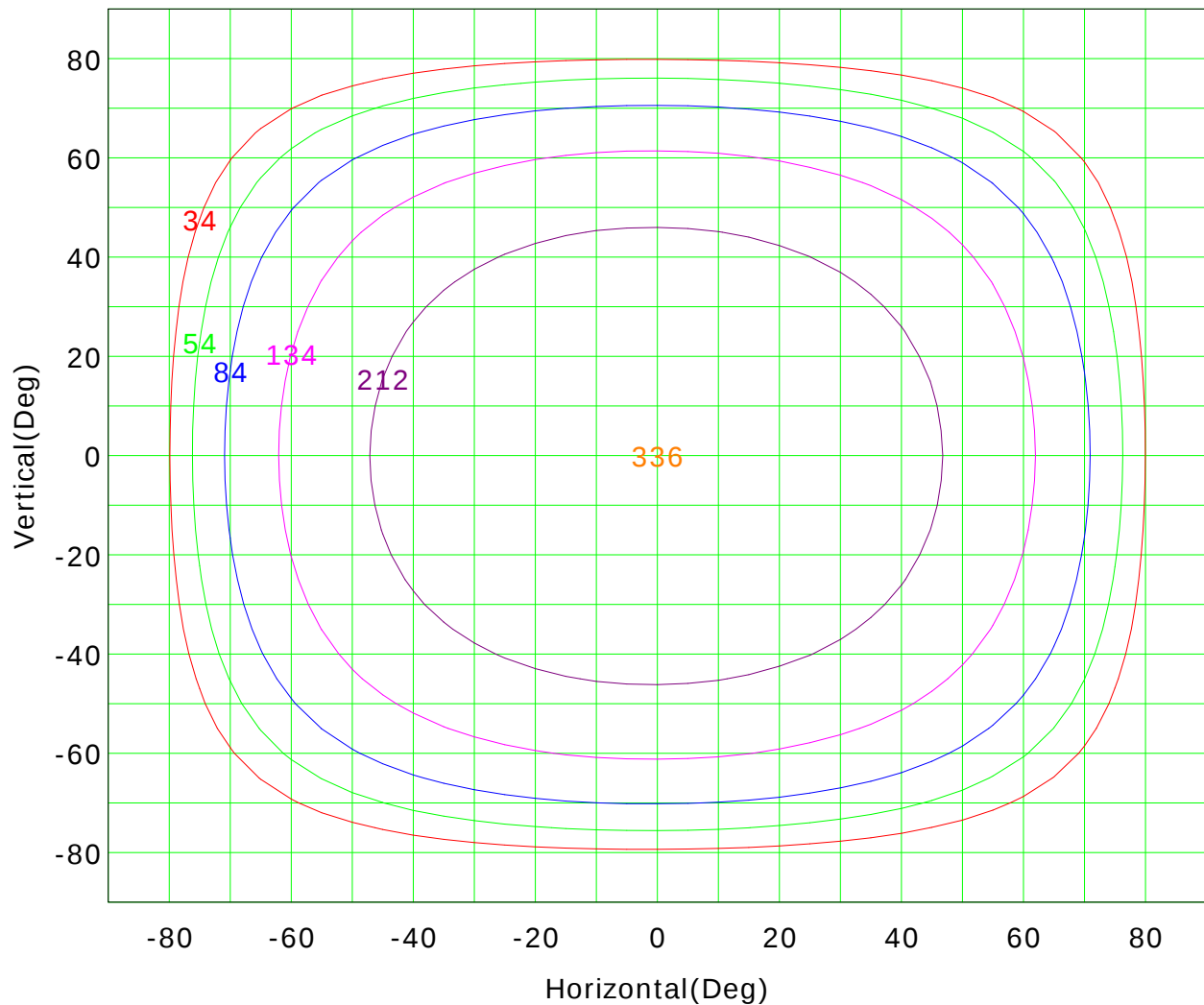
Luminous Intensity Distribution Curve(cd / klm)



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%): 336 cd

(10%):	34 cd	(16%):	54 cd
(25%):	84 cd	(40%):	134 cd
(63%):	212 cd	(100%):	336 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

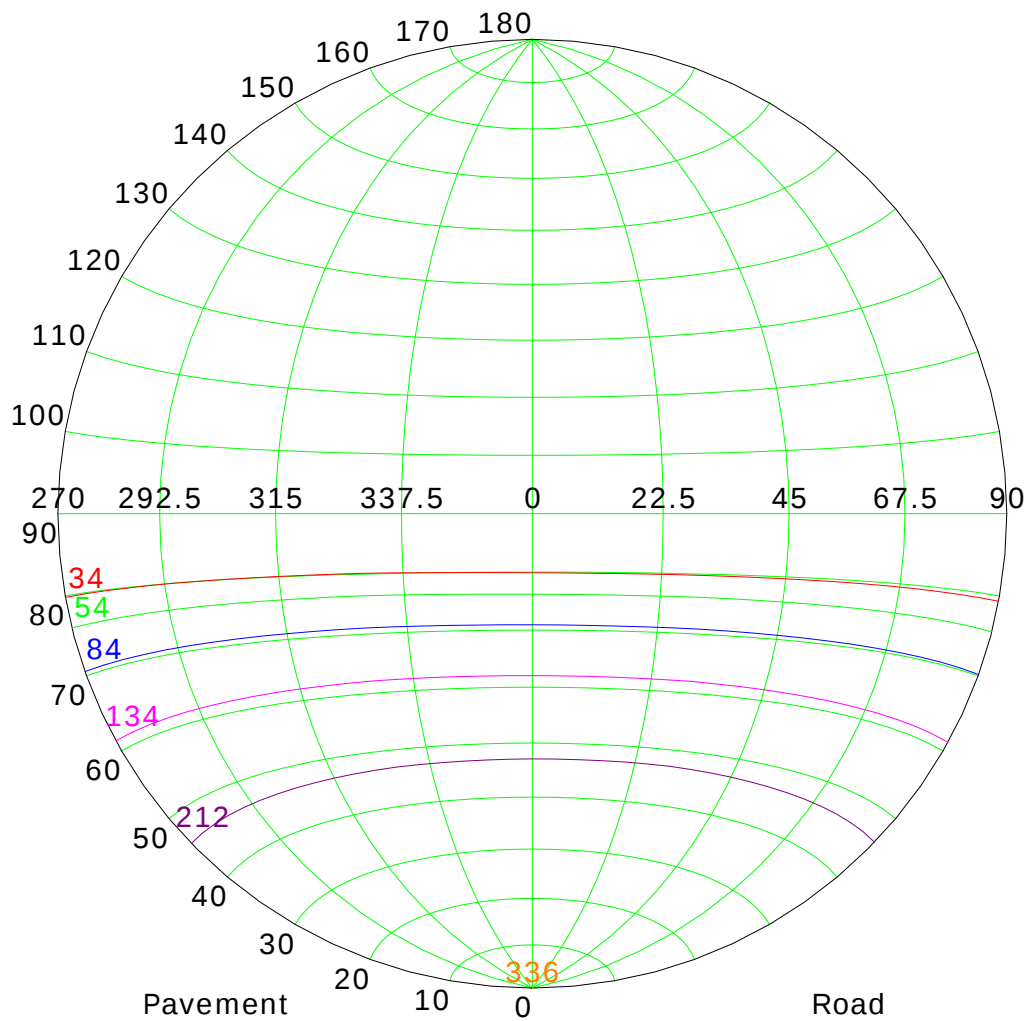
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 336 cd

(10%):	34 cd	(16%):	54 cd
(25%):	84 cd	(40%):	134 cd
(63%):	212 cd	(100%):	336 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

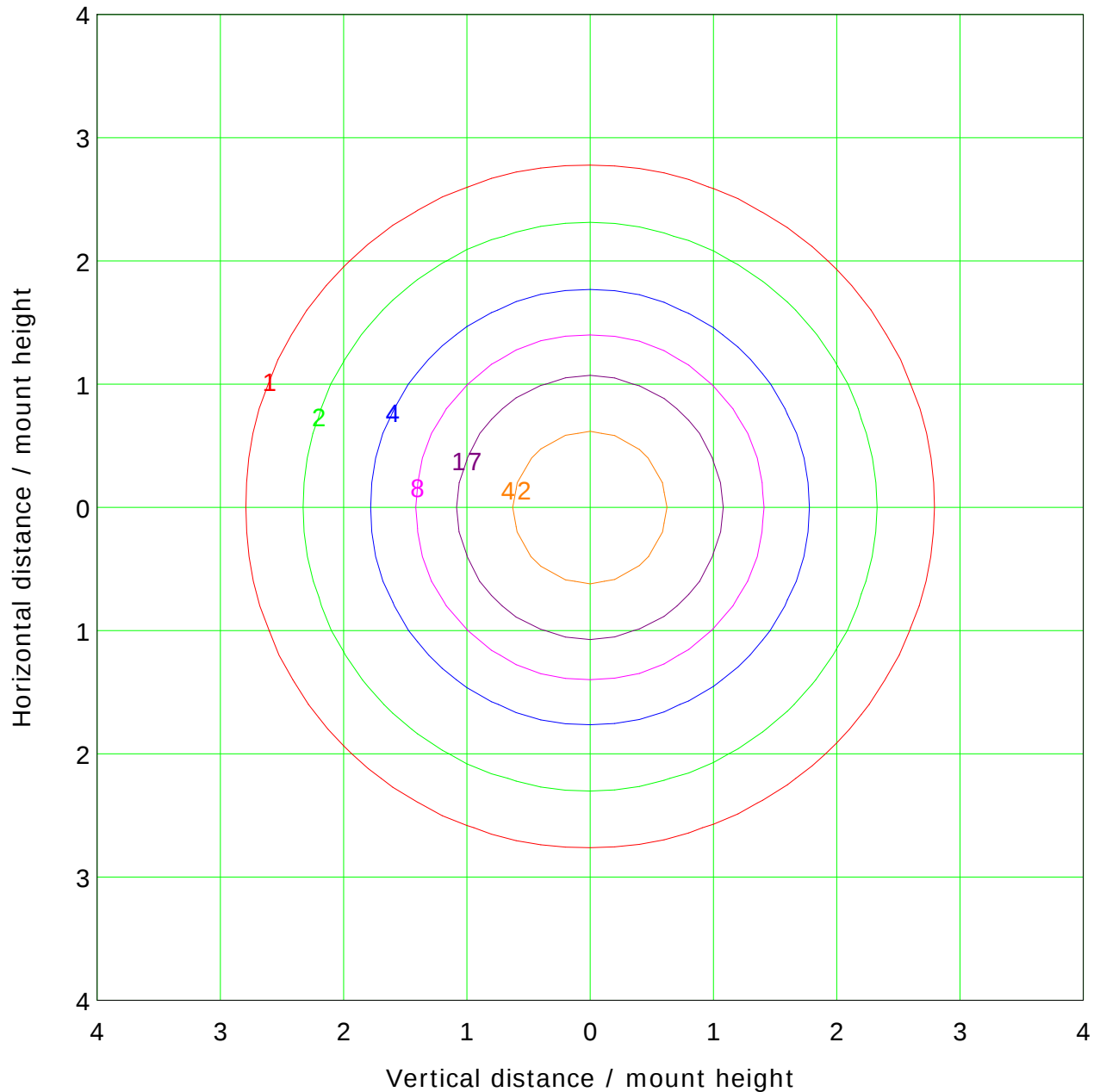
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 84.1 lx	
— (1%):	0.8 lx	— (2%):	1.7 lx
— (5%):	4.2 lx	— (10%):	8.4 lx
— (20%):	16.8 lx	— (50%):	42.0 lx
— (100%):	84.1 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

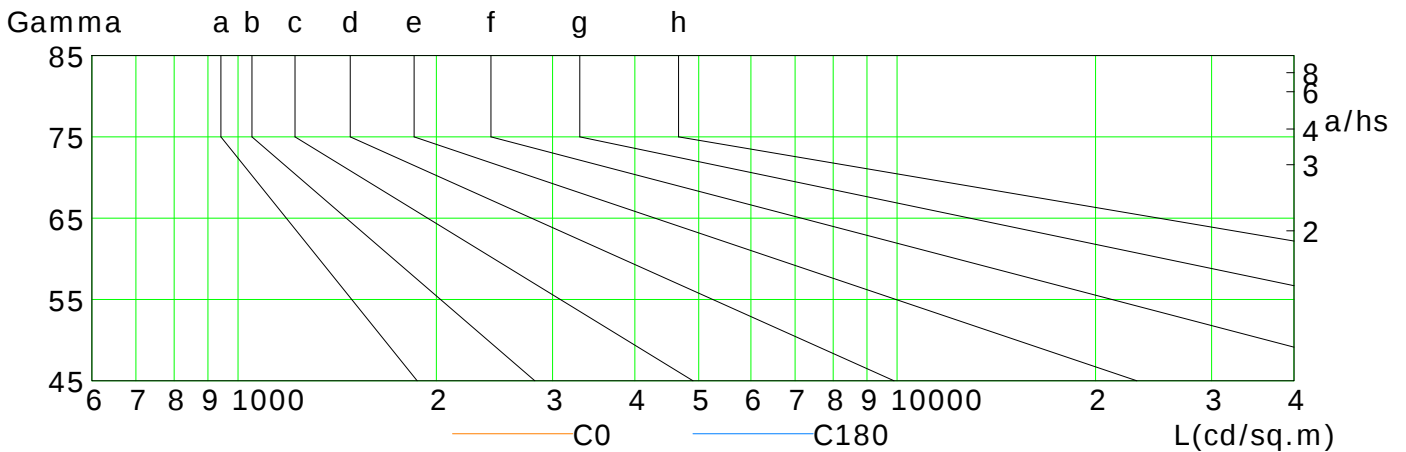
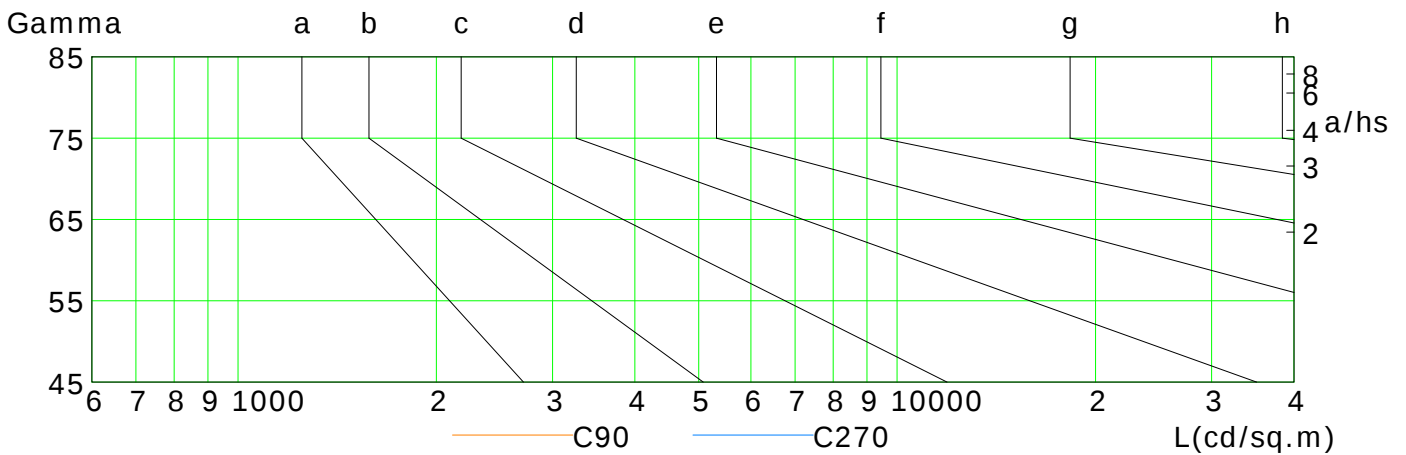
Humidity:

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	222	198	173	146	118	89	60	33	10
C90	217	193	168	141	114	85	57	30	9
C180	220	197	172	145	118	90	61	34	11
C270	216	193	168	142	115	87	59	33	11

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

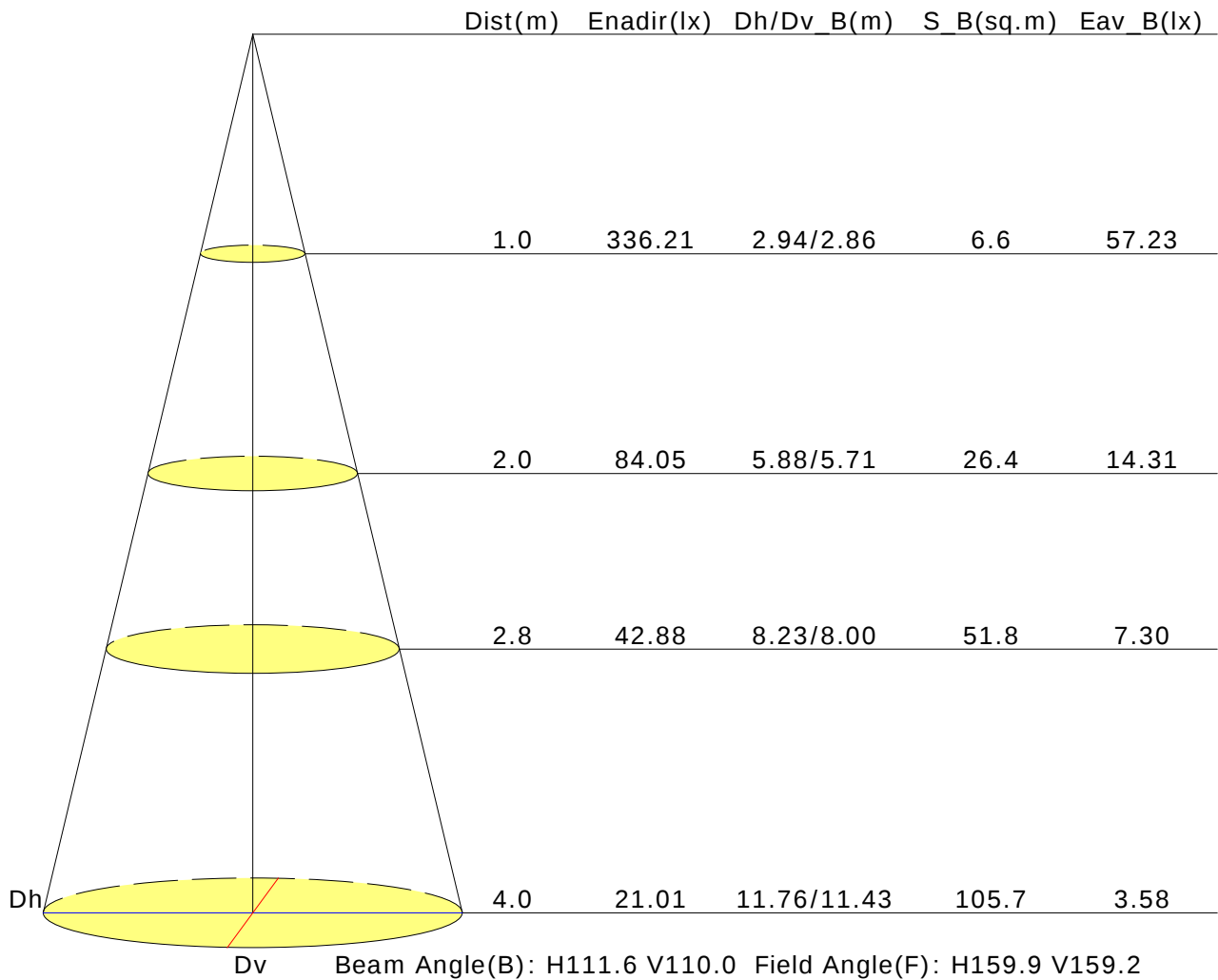
Test Device: GPM-1800B

Distance: 7.979 m

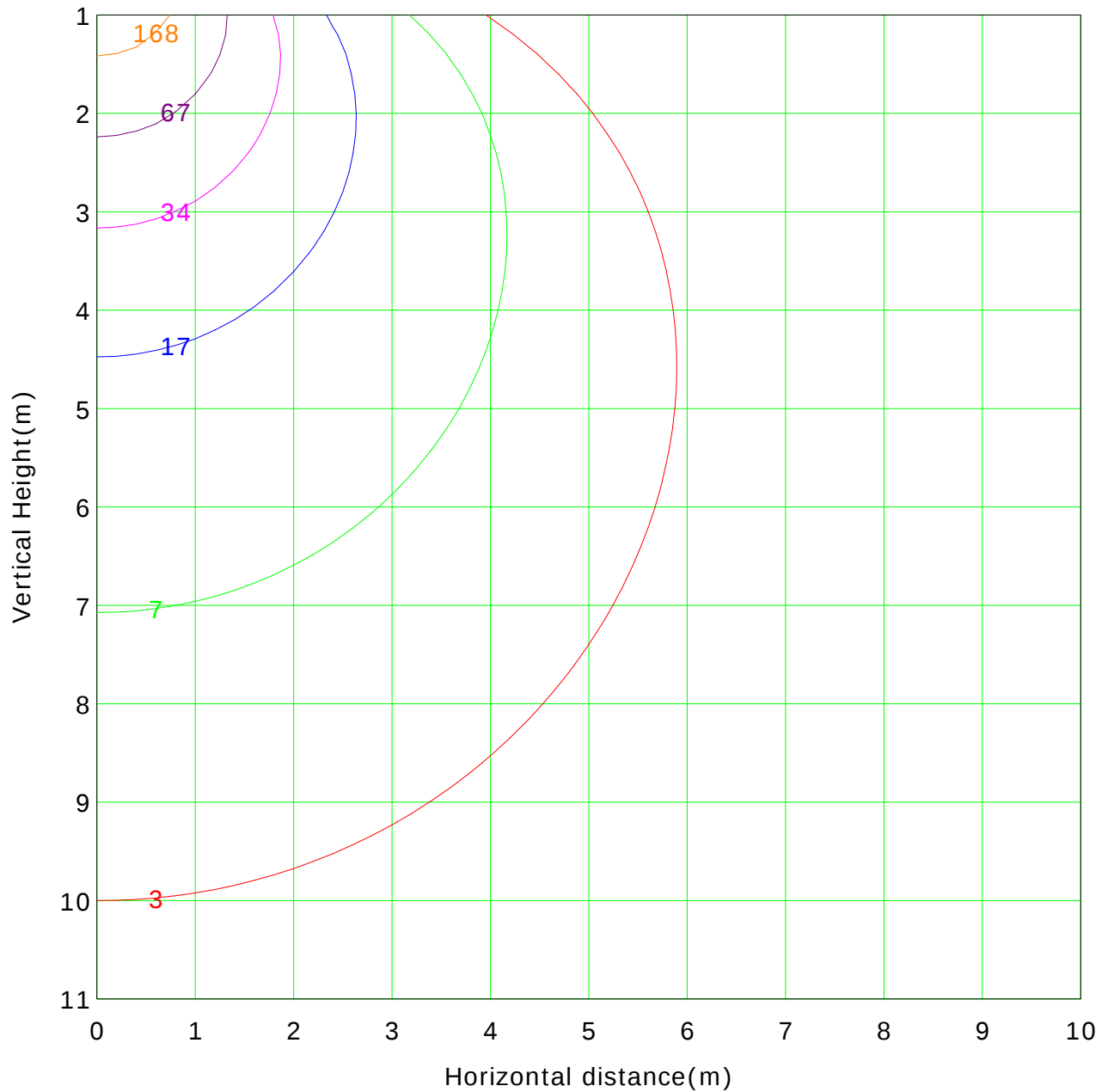
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 336.2 lx

(1%): 3.4 lx	(2%): 6.7 lx
(5%): 16.8 lx	(10%): 33.6 lx
(20%): 67.2 lx	(50%): 168.1 lx
(100%): 336.2 lx	

Report No.:

Test Time: 26/01/2022 16:25

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW15-03 + LLD-03-FS

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1579 lm

Voltage: 24.0 V

Current: 0.576 A

Power: 13.83 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 861.7 lm

Downward Ratio: 54.40%

Total Rated Lamp Lumens: 1579.0 lm

Efficiency: 54.57%

Upward Ratio: 0.17%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.6, 162.5, 162.9, 163.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.8, 109.2, 110.1, 110.1

Luminaire Efficacy Rating (LER): 62.36

Central Intensity: 306.34 cd

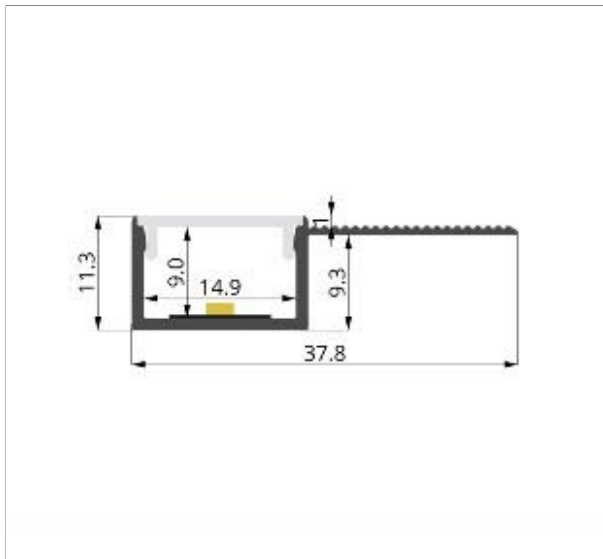
Max. Intensity: 306.46 cd

Pos of Max. Intensity: H30 V1

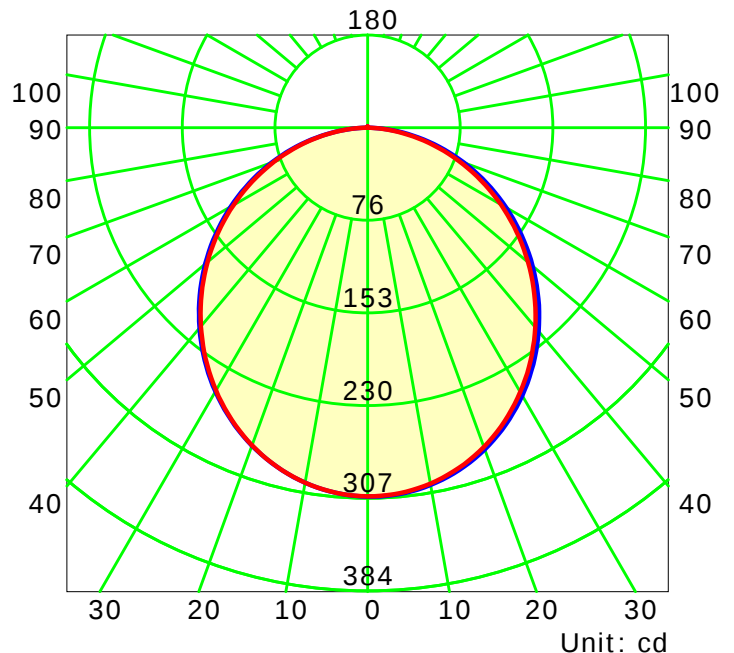
S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.23

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

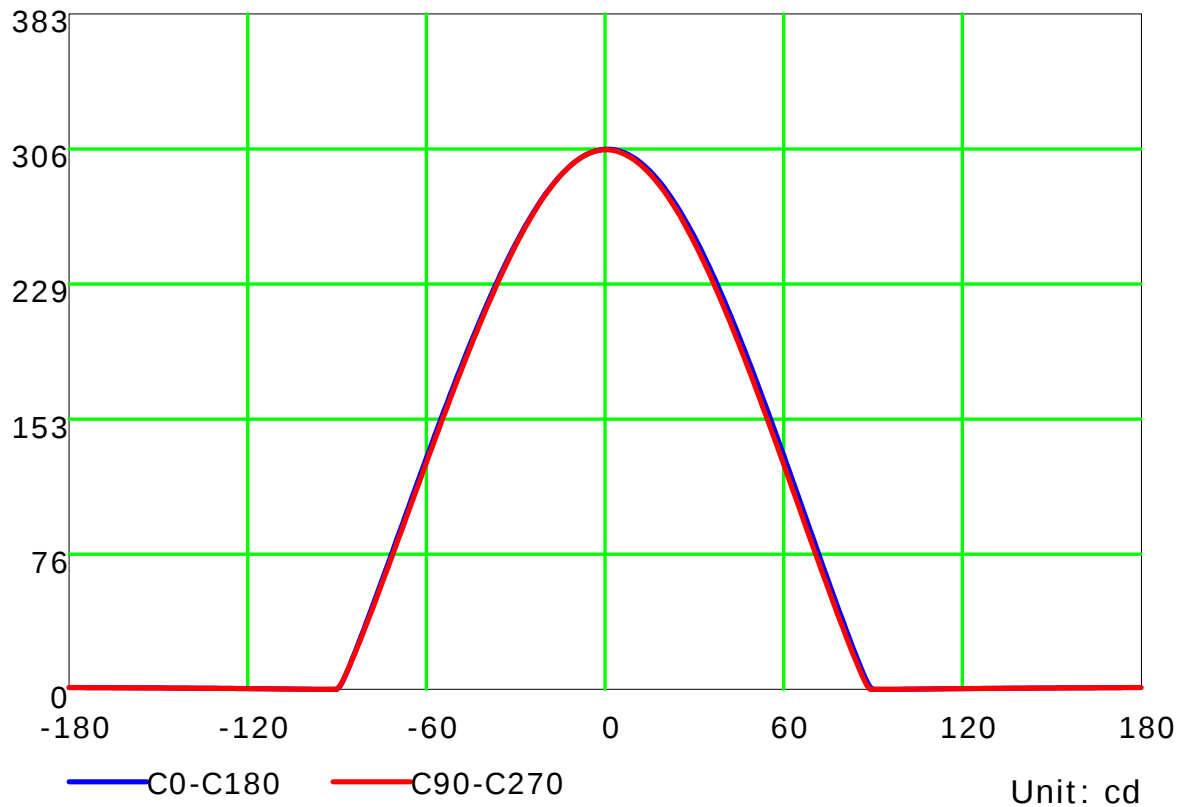
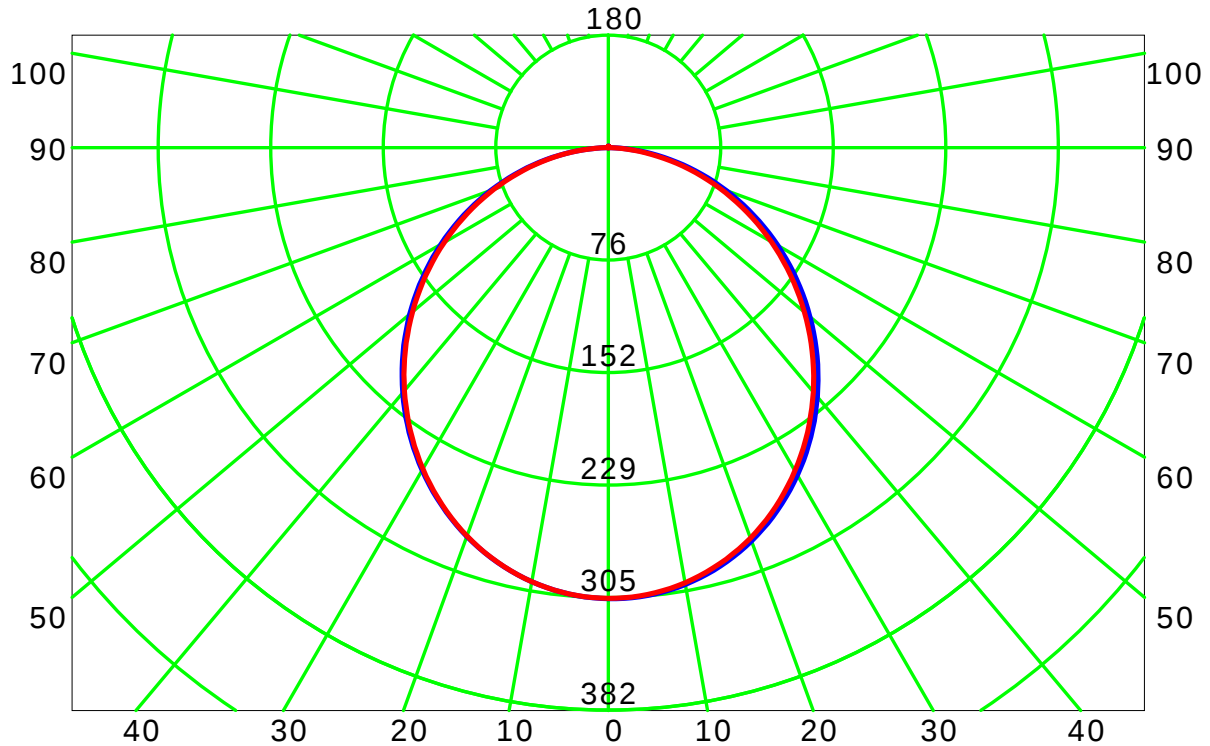
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

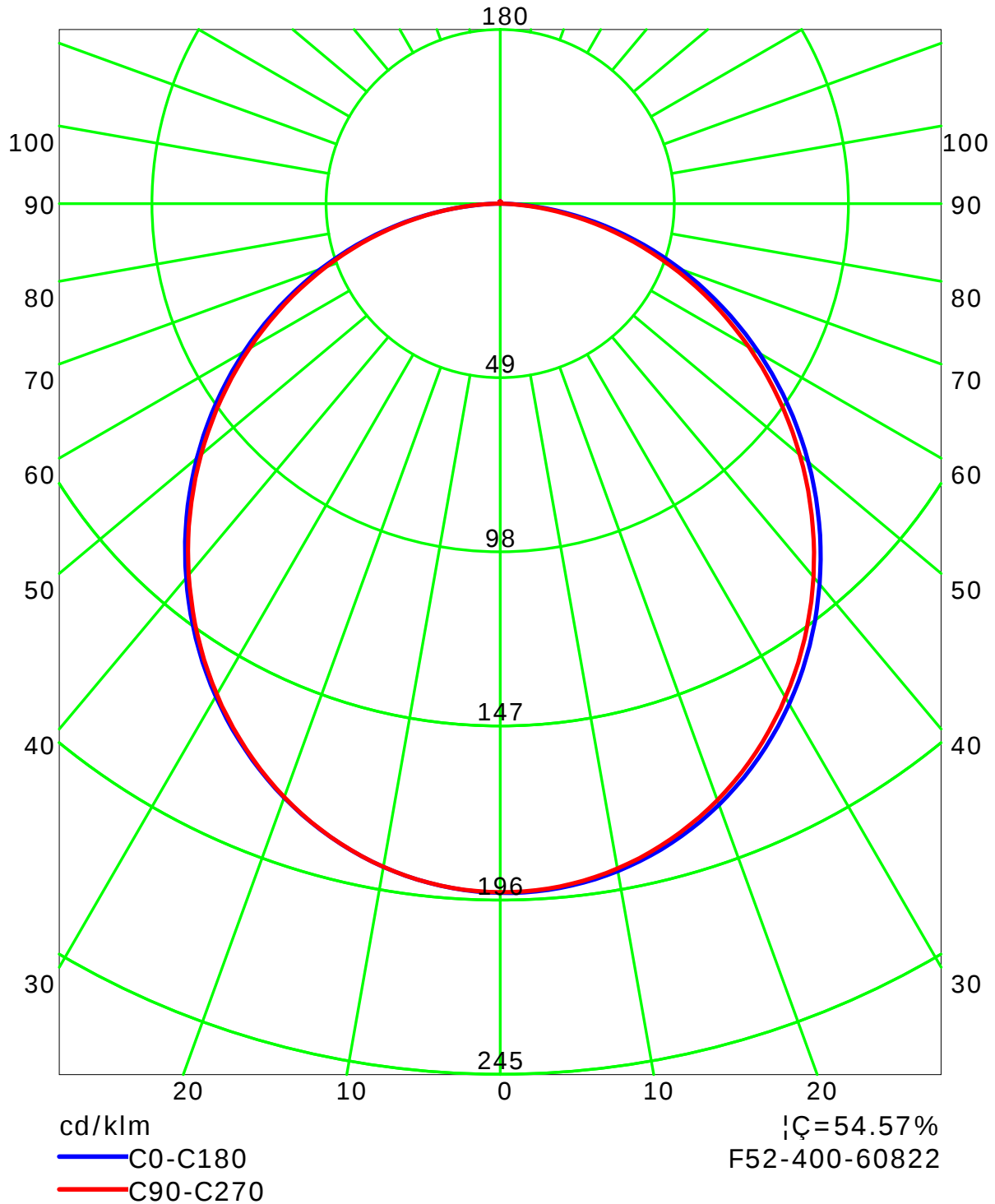
Luminous Intensity Distribution Curve



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:

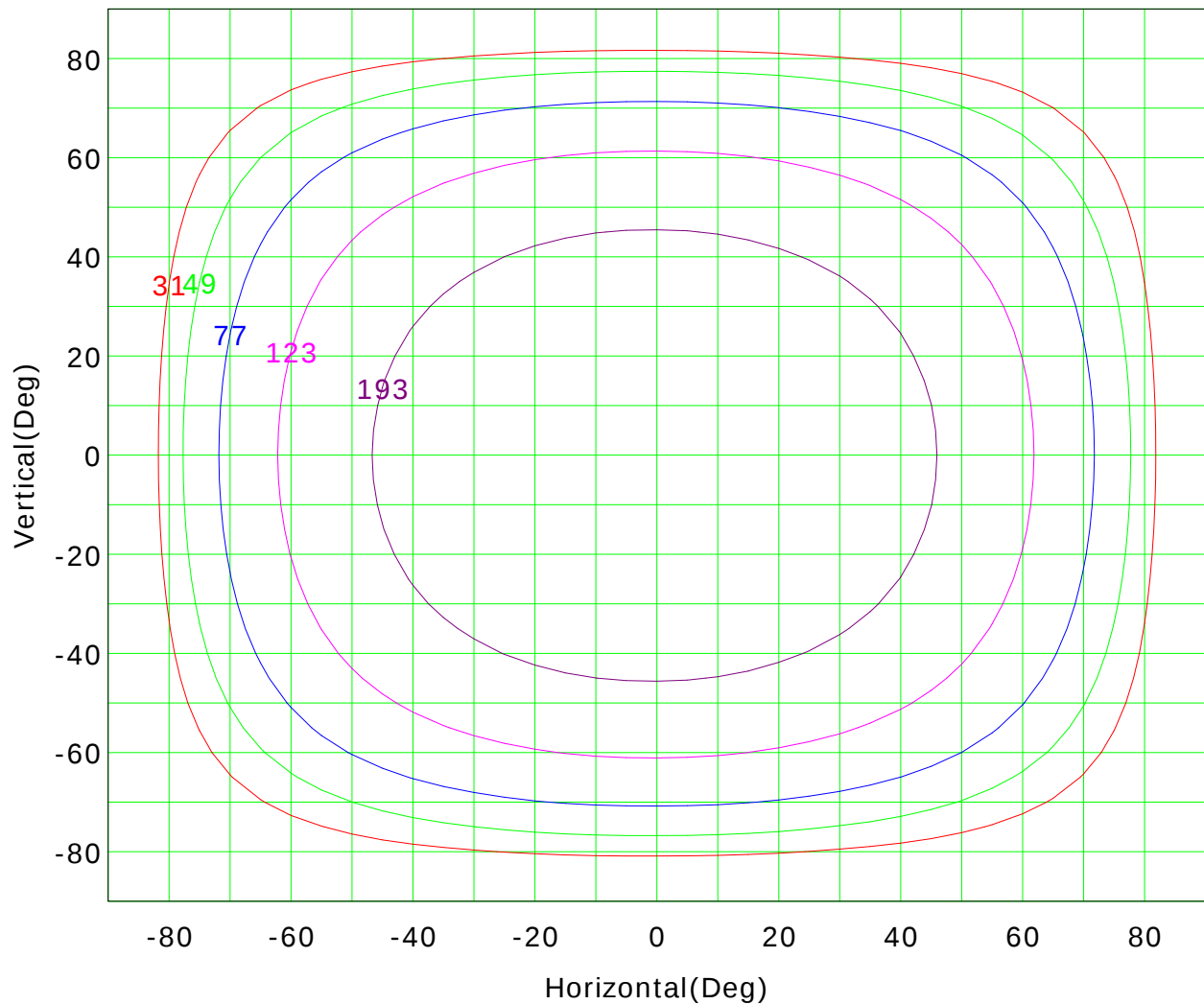
Luminous Intensity Distribution Curve(cd / klm)



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%): 306 cd

(10%):	31 cd	(16%):	49 cd
(25%):	77 cd	(40%):	123 cd
(63%):	193 cd	(100%):	306 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

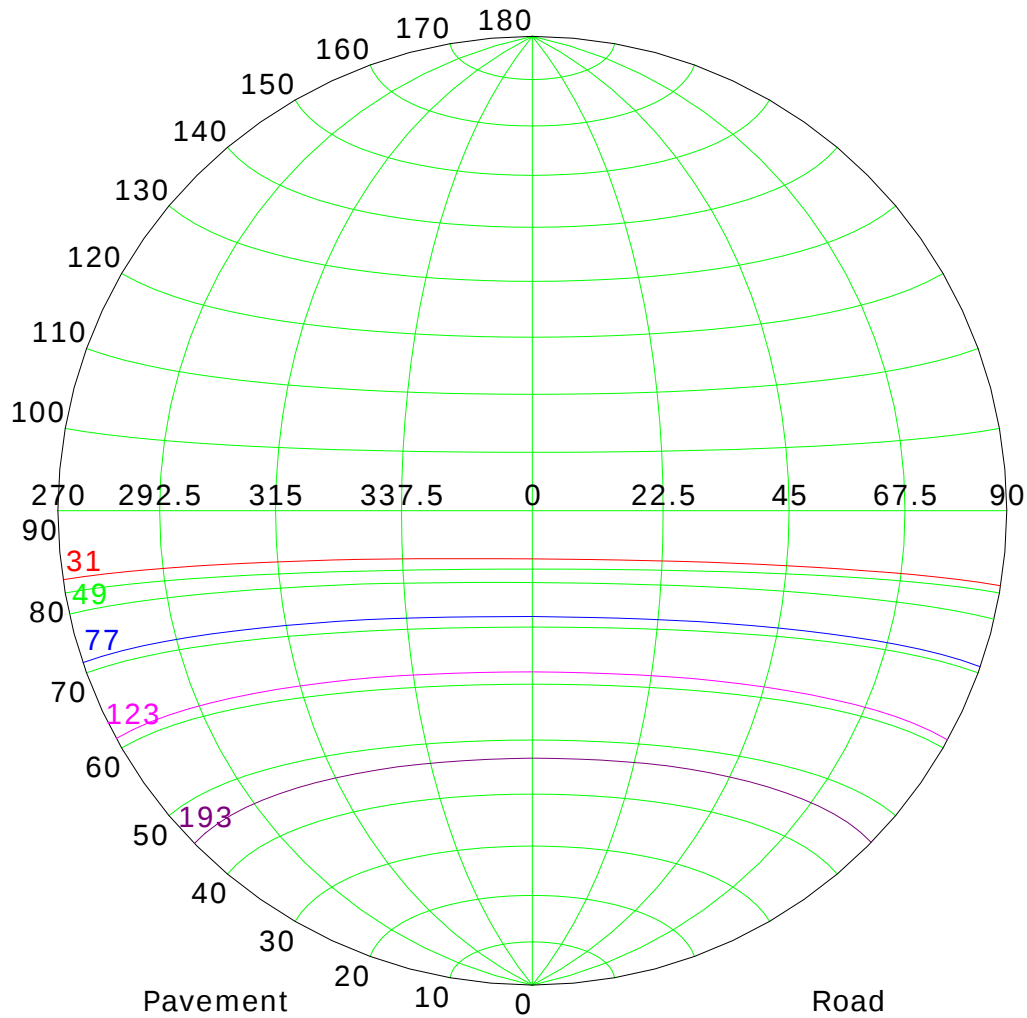
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 306 cd

(10%):	31 cd	(16%):	49 cd
(25%):	77 cd	(40%):	123 cd
(63%):	193 cd	(100%):	306 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

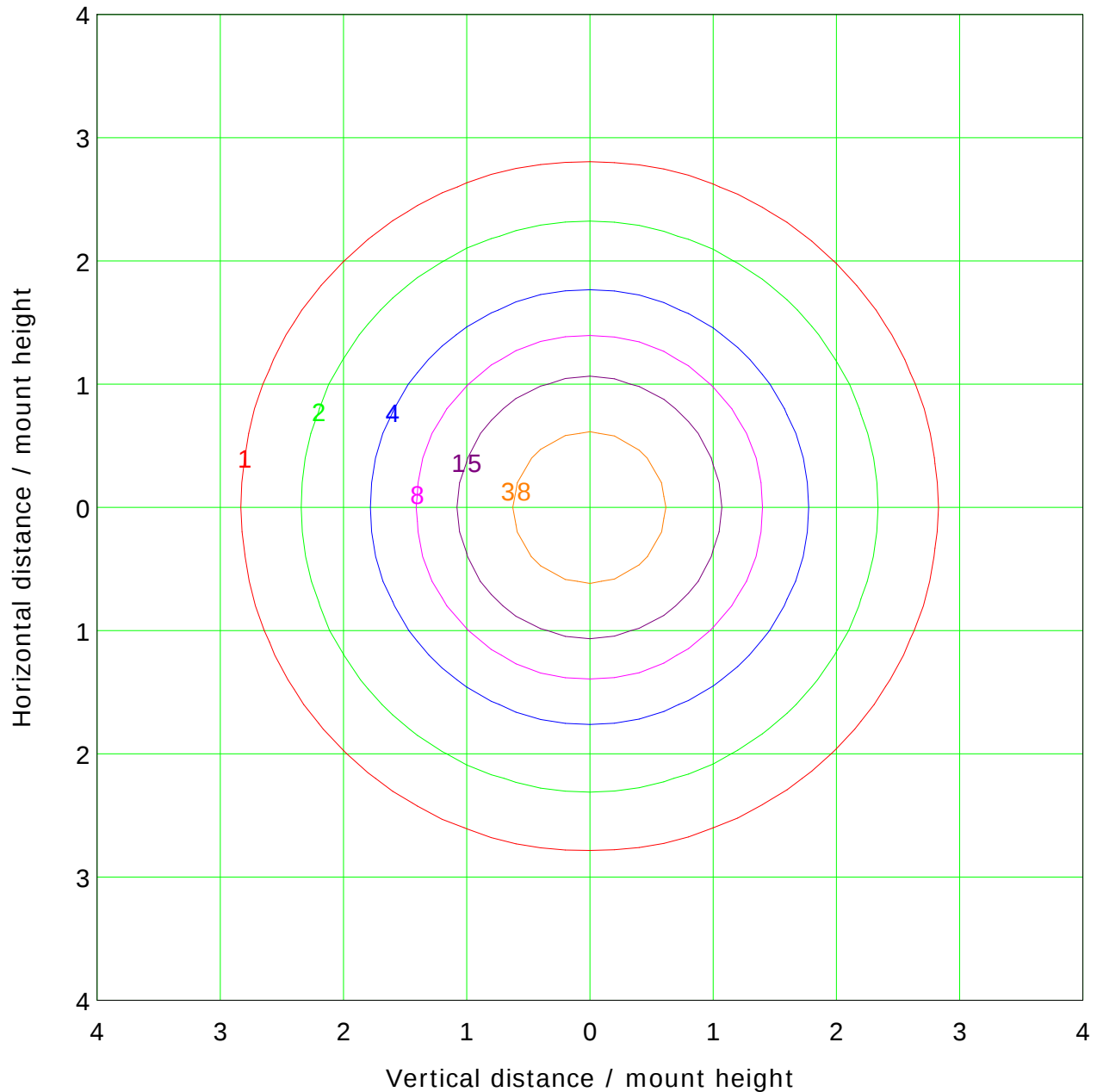
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 76.6 lx	
— (1%):	0.8 lx	— (2%):	1.5 lx
— (5%):	3.8 lx	— (10%):	7.7 lx
— (20%):	15.3 lx	— (50%):	38.3 lx
— (100%):	76.6 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

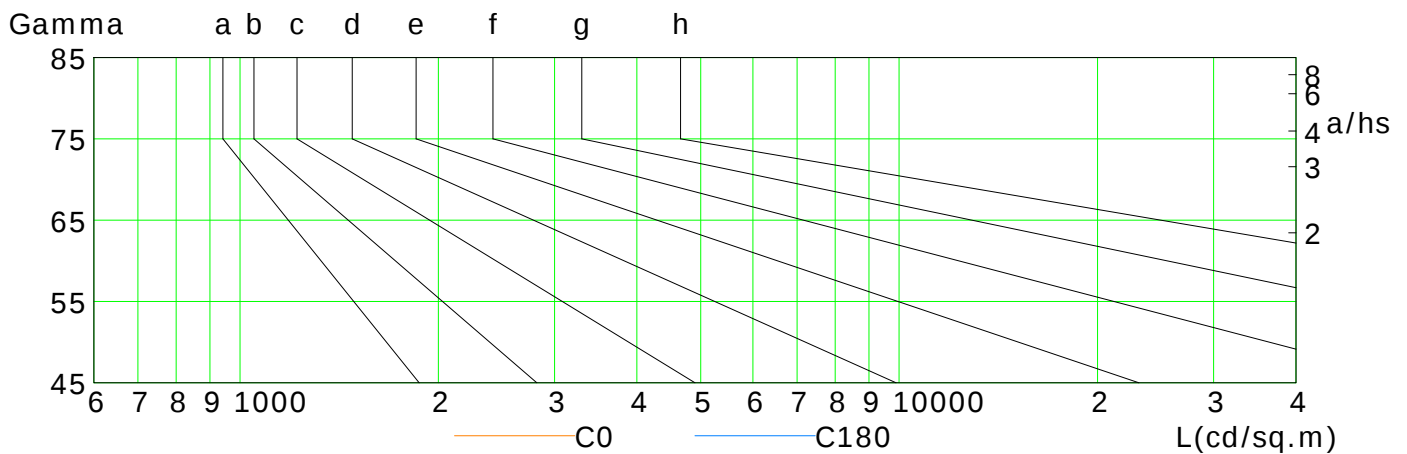
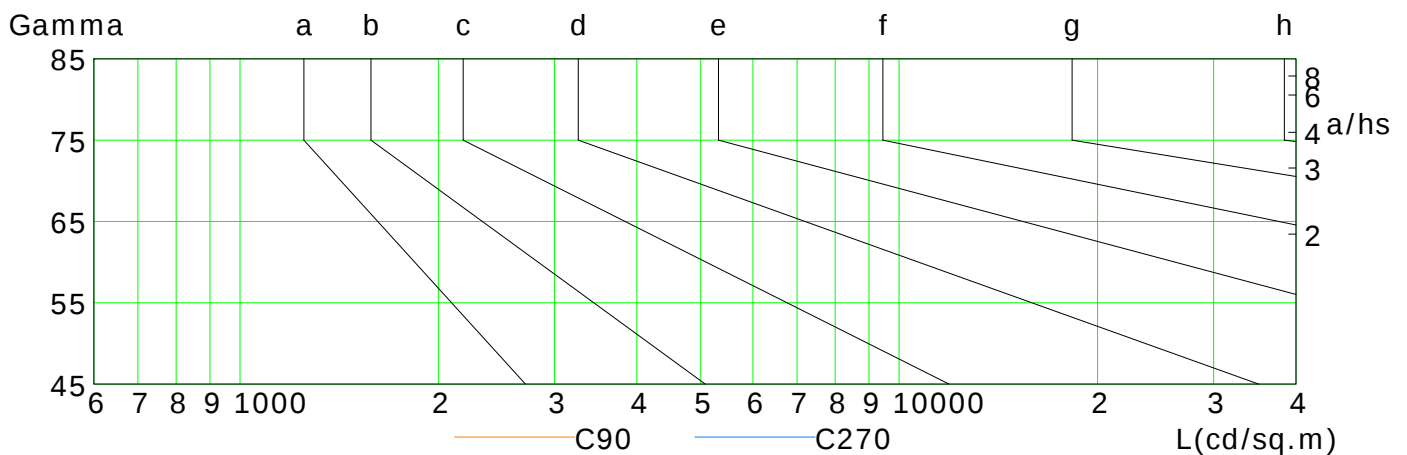
Humidity:

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	200	179	156	133	109	85	61	38	16
C90	196	174	151	128	104	80	57	34	13
C180	197	176	154	131	108	85	62	39	17
C270	195	174	151	129	106	83	60	37	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

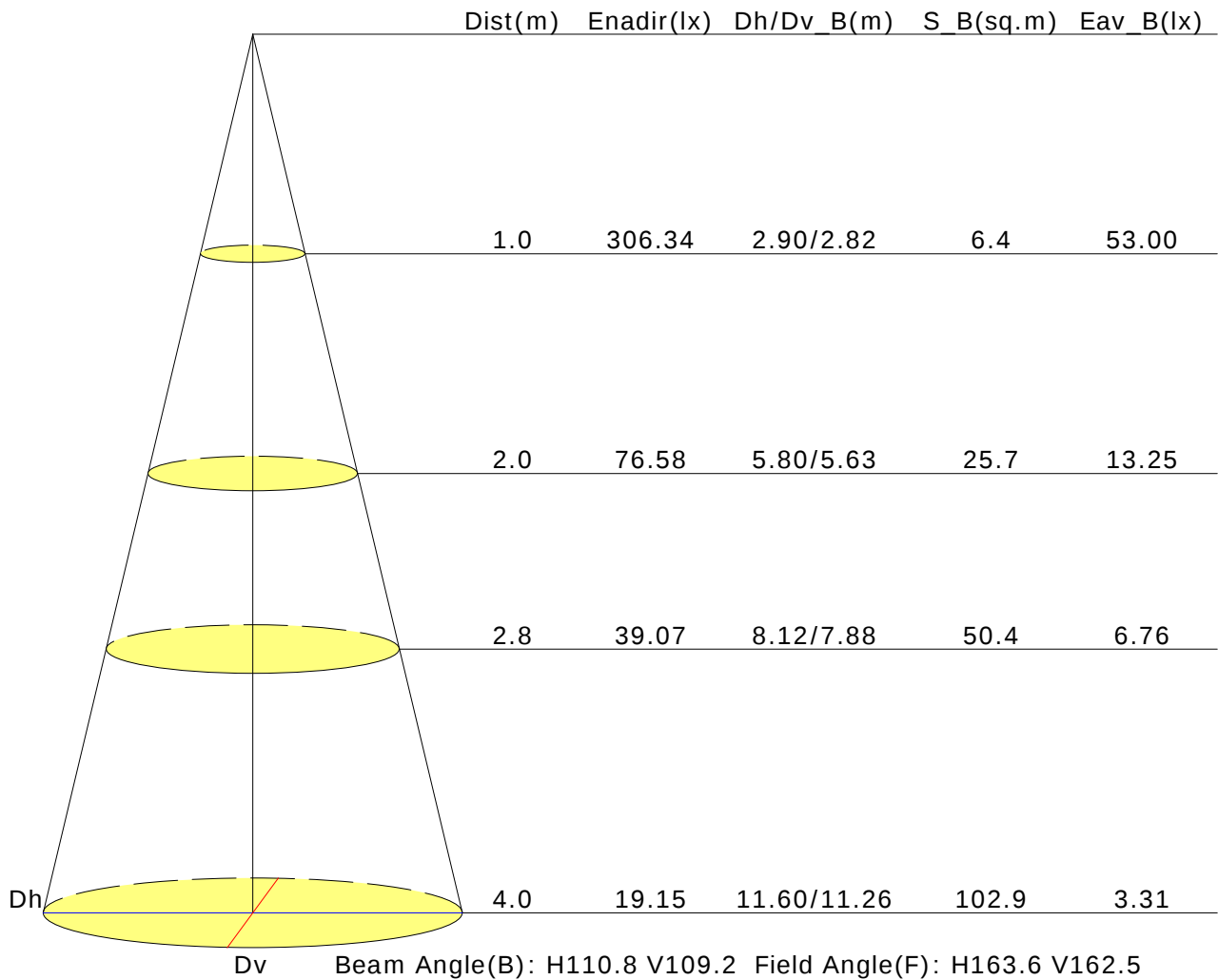
Test Device: GPM-1800B

Distance: 7.979 m

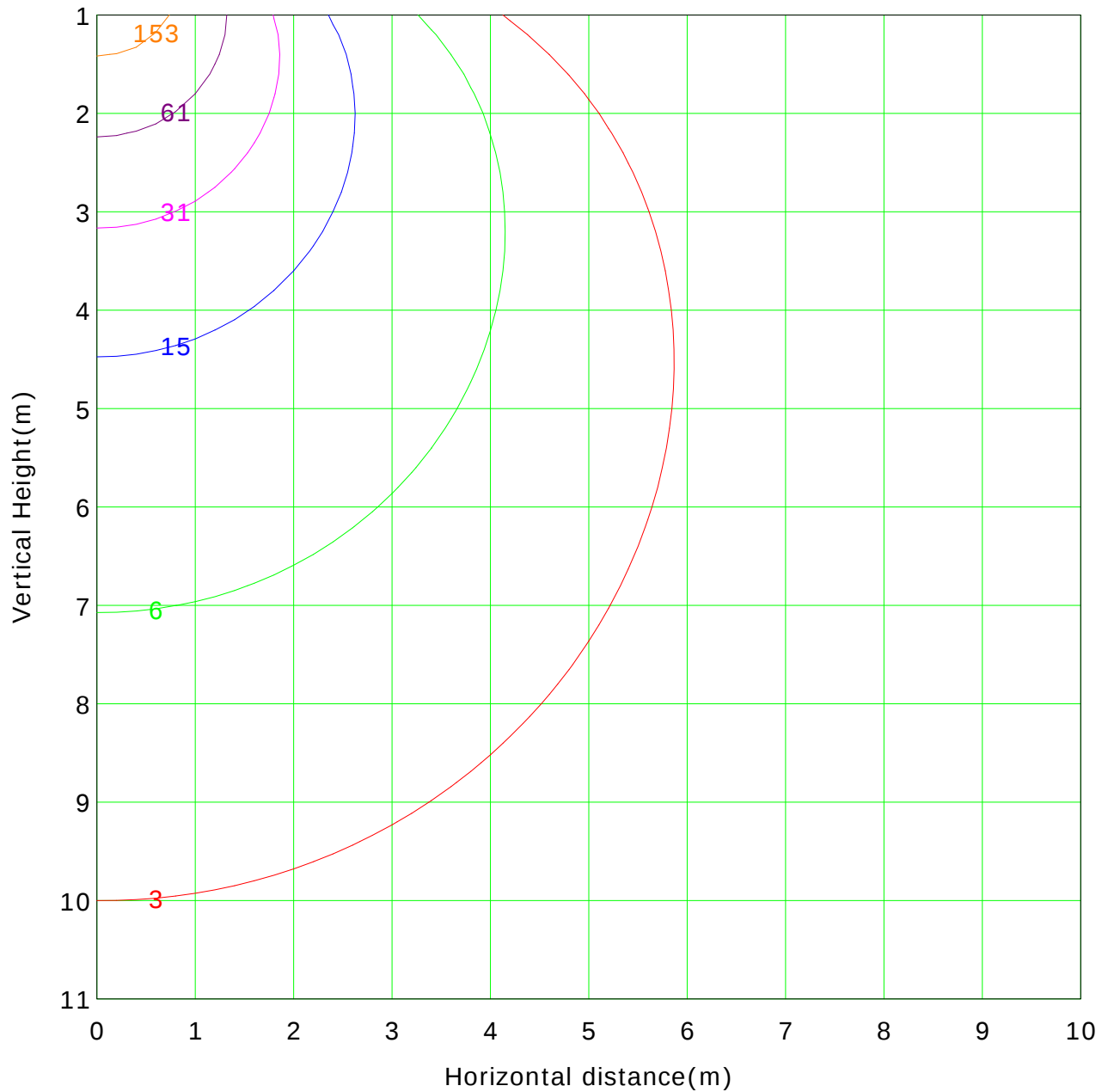
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Report No.:

Test Time: 01/02/2022 10:30

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW15-03 + LLD-03-XK-L1

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1579 lm

Voltage: 24.0 V

Current: 0.576 A

Power: 13.83 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 1291.6 lm

Downward Ratio: 81.39%

Total Rated Lamp Lumens: 1579.0 lm

Efficiency: 81.80%

Upward Ratio: 0.40%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 146.8, 129.1, 126.3, 126.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 122.6, 39.8, 53.8, 54.0

Luminaire Efficacy Rating (LER): 93.44

Central Intensity: 835.8 cd

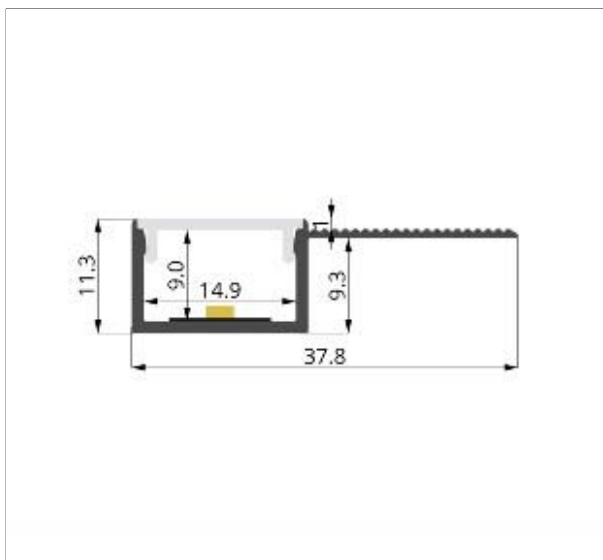
Max. Intensity: 845.81 cd

Pos of Max. Intensity: H0 V42

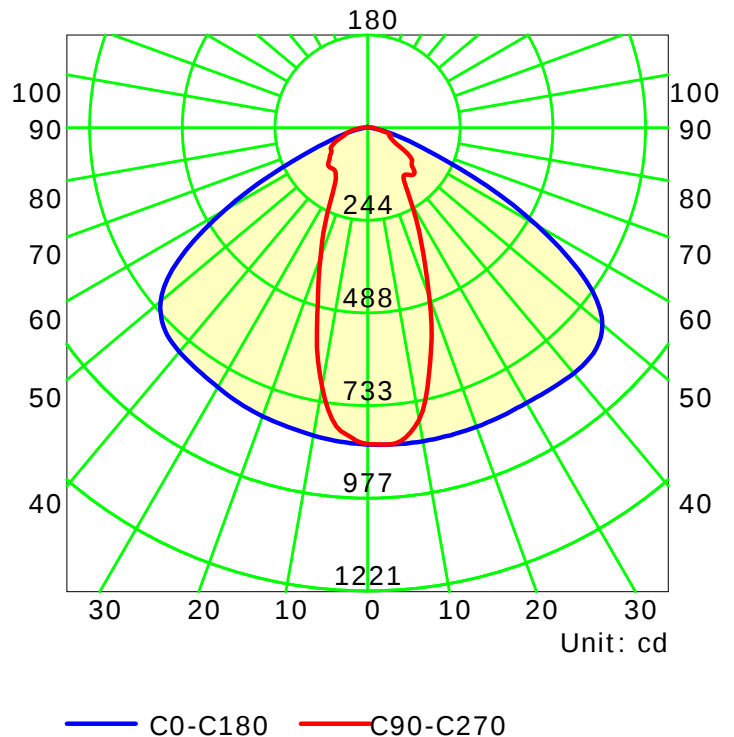
S/MH(C0/C180): 1.49

S/MH(C90/C270): 0.65

Picture Of Luminaire



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

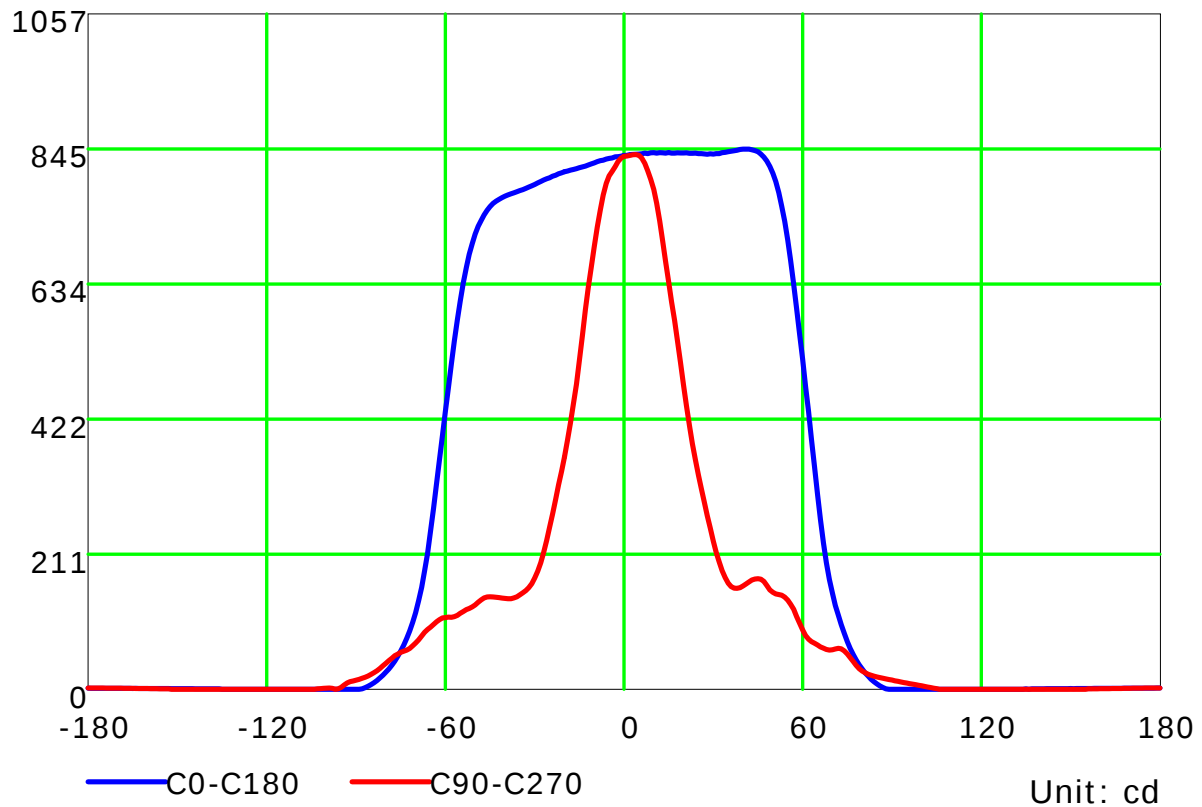
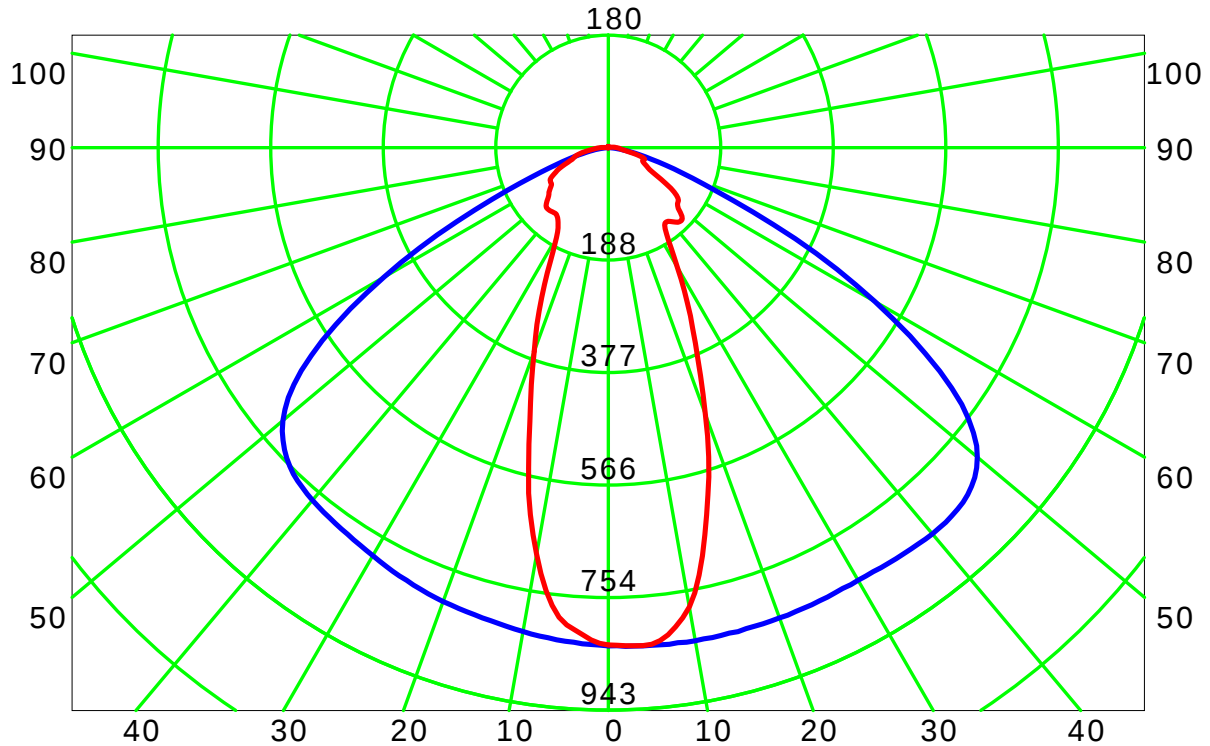
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

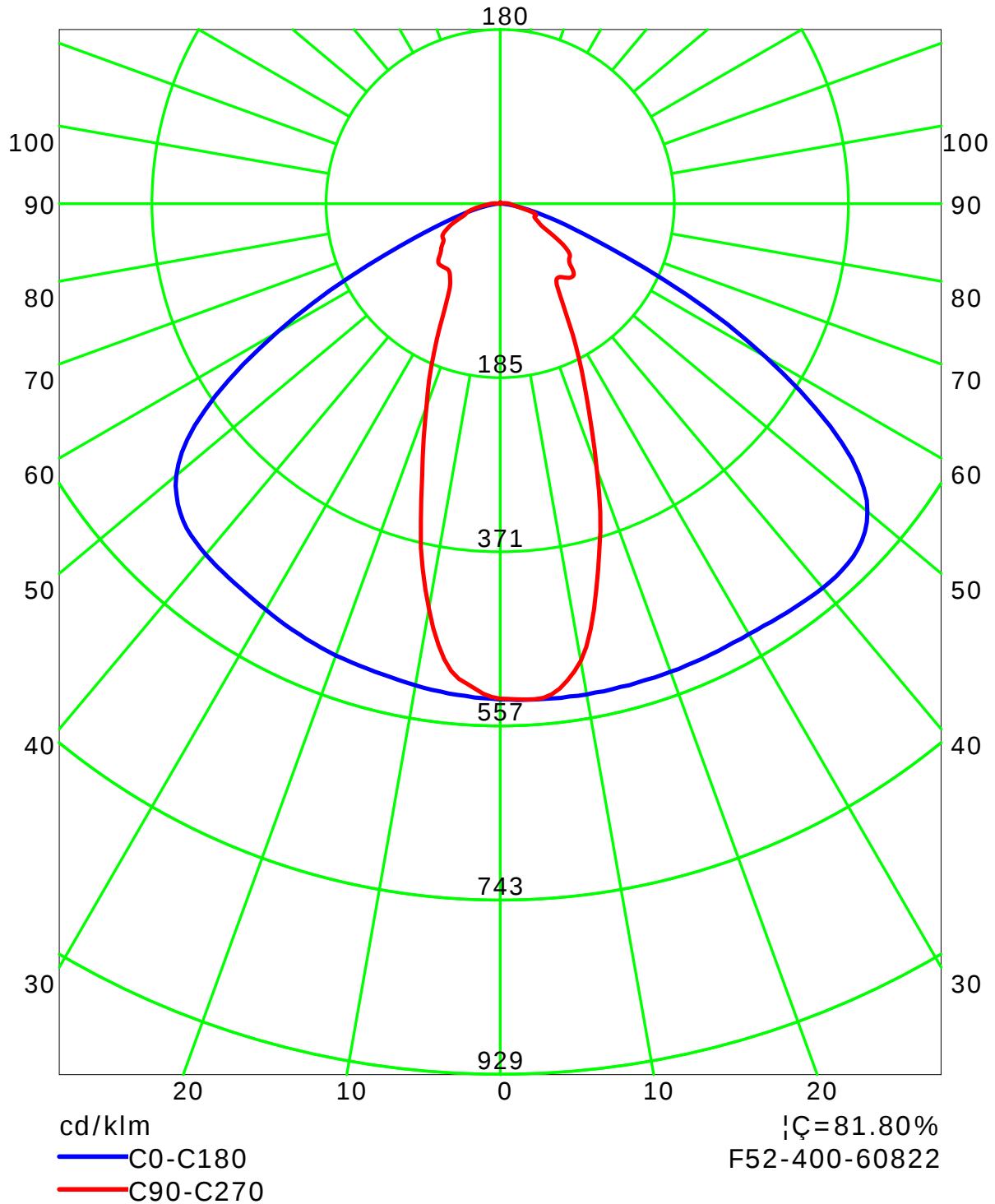
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

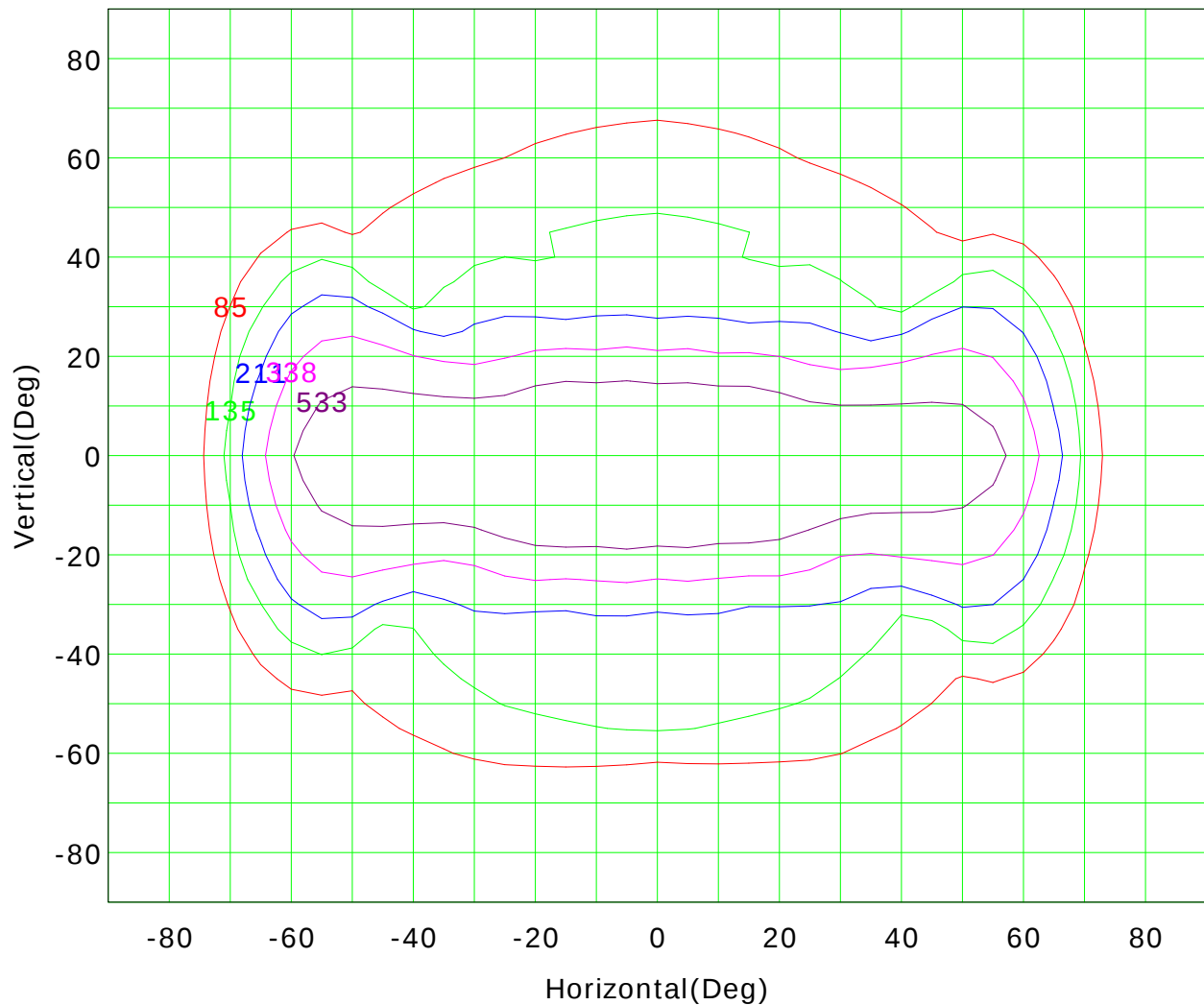
Luminous Intensity Distribution Curve(cd / klm)



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%): 846 cd

(10%):	85 cd	(16%):	135 cd
(25%):	211 cd	(40%):	338 cd
(63%):	533 cd	(100%):	846 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

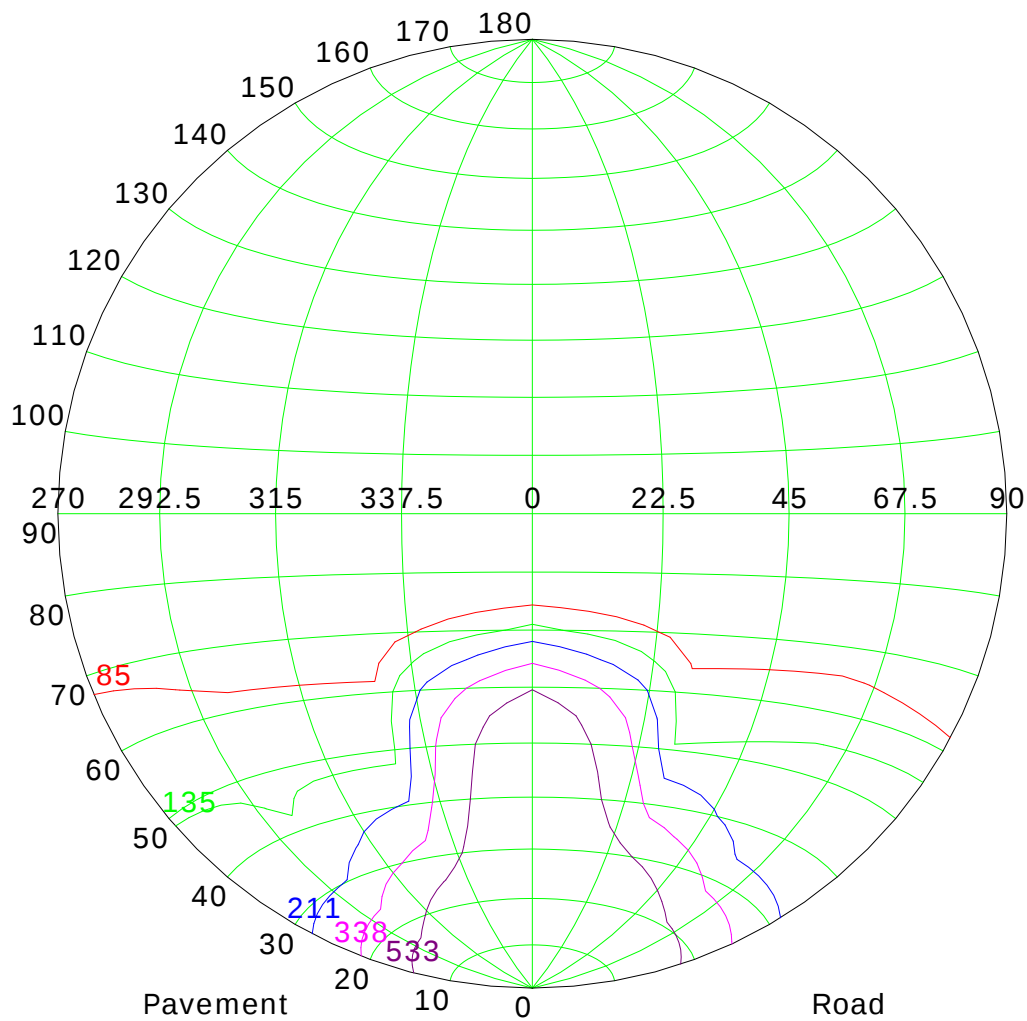
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 846 cd

(10%):	85 cd	(16%):	135 cd
(25%):	211 cd	(40%):	338 cd
(63%):	533 cd	(100%):	846 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

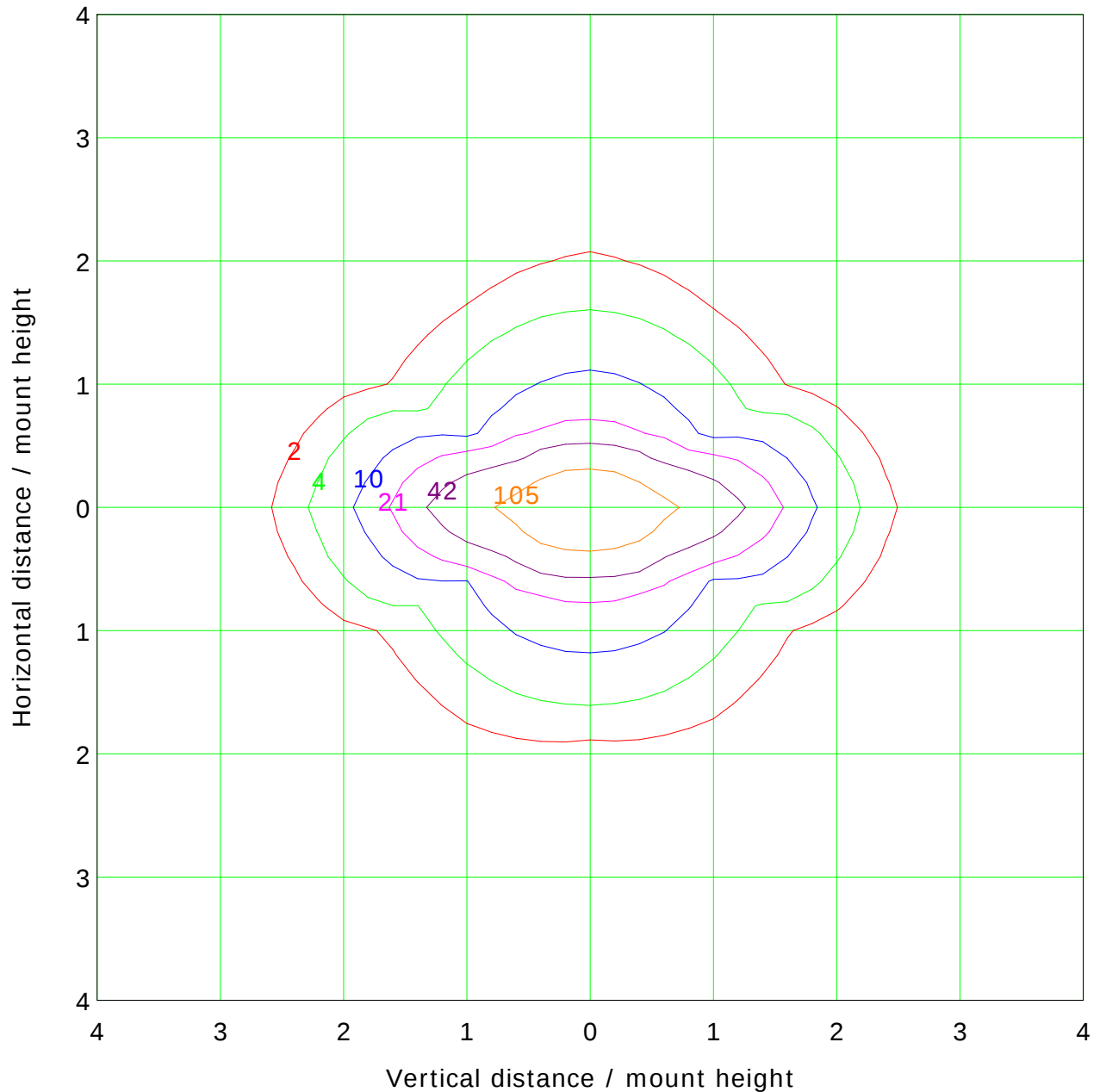
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 209.0 lx	
— (1%):	2.1 lx	— (2%):	4.2 lx
— (5%):	10.5 lx	— (10%):	20.9 lx
— (20%):	41.8 lx	— (50%):	104.5 lx
— (100%):	209.0 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

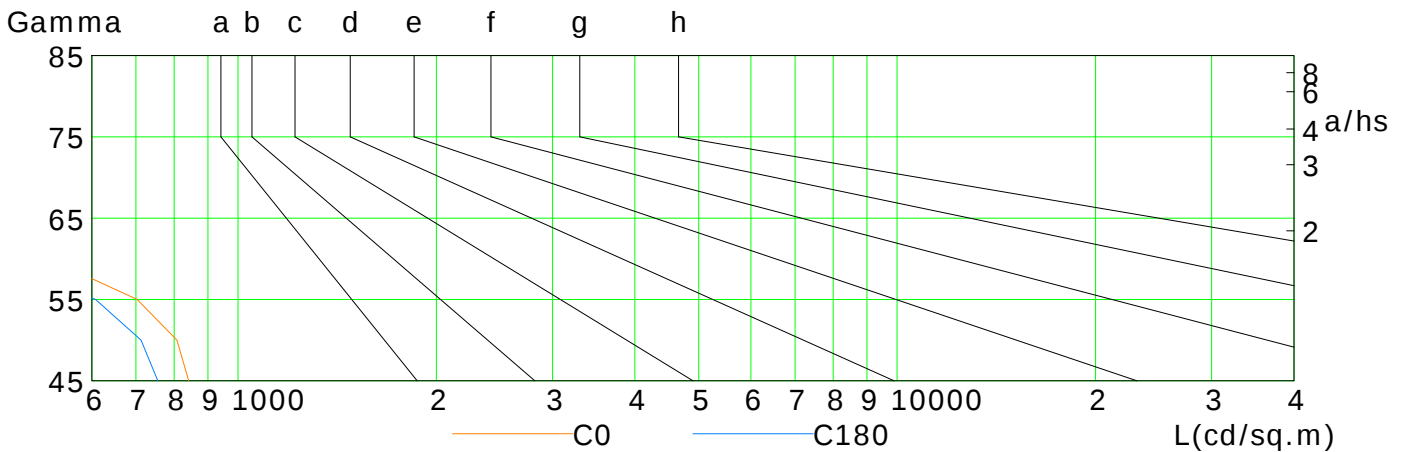
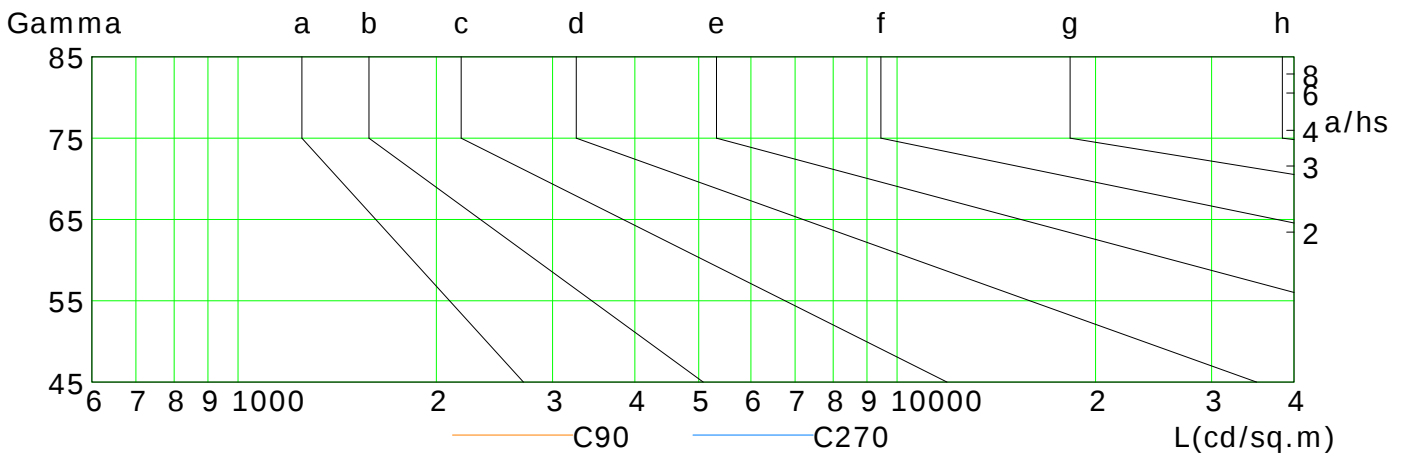
Humidity:

Inspector:

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	842	808	703	517	305	151	75	32	8
C90	173	152	140	93	69	62	56	29	19
C180	756	713	608	435	247	120	60	27	7
C270	145	132	119	112	97	73	58	41	23

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

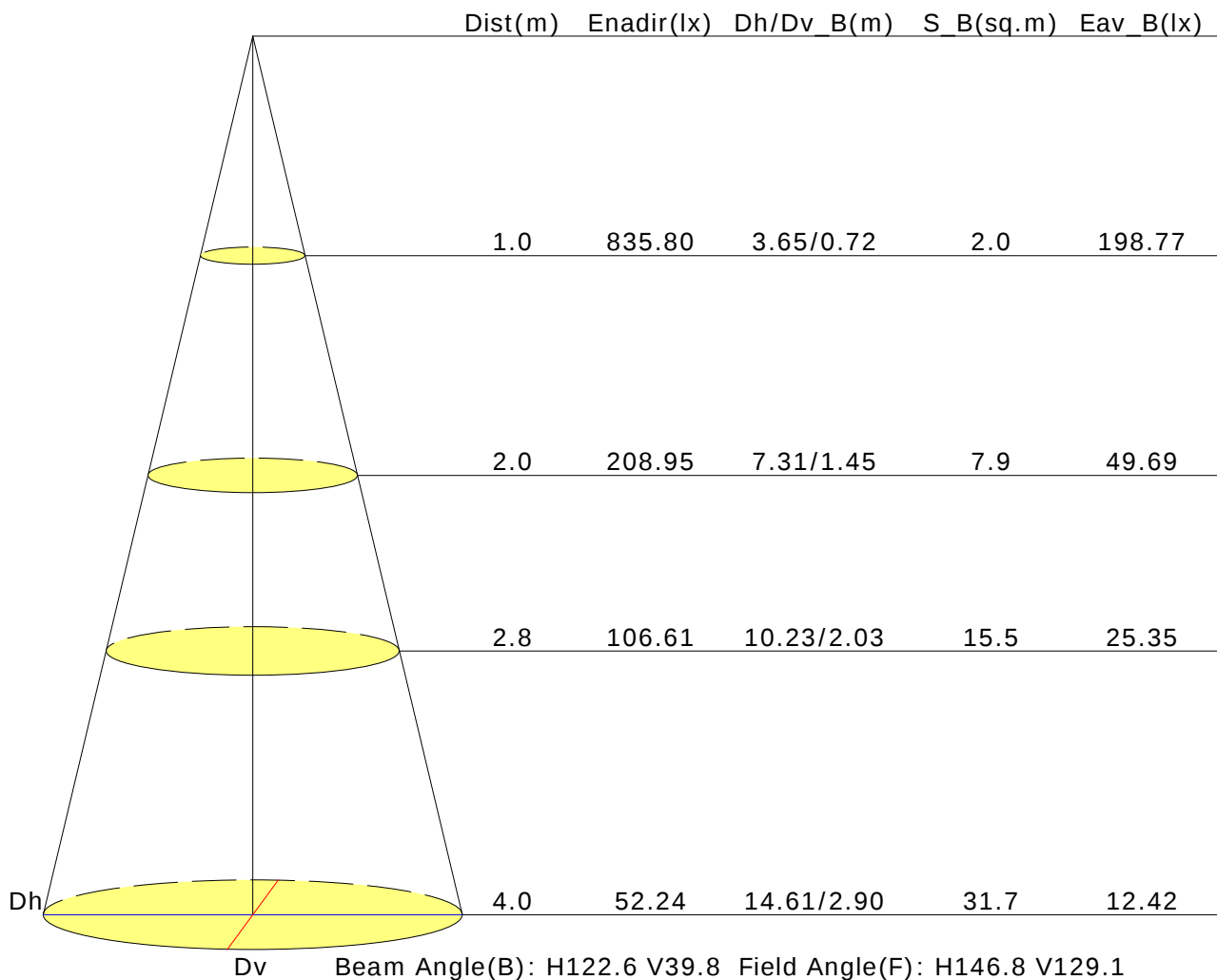
Test Device: GPM-1800B

Distance: 7.979 m

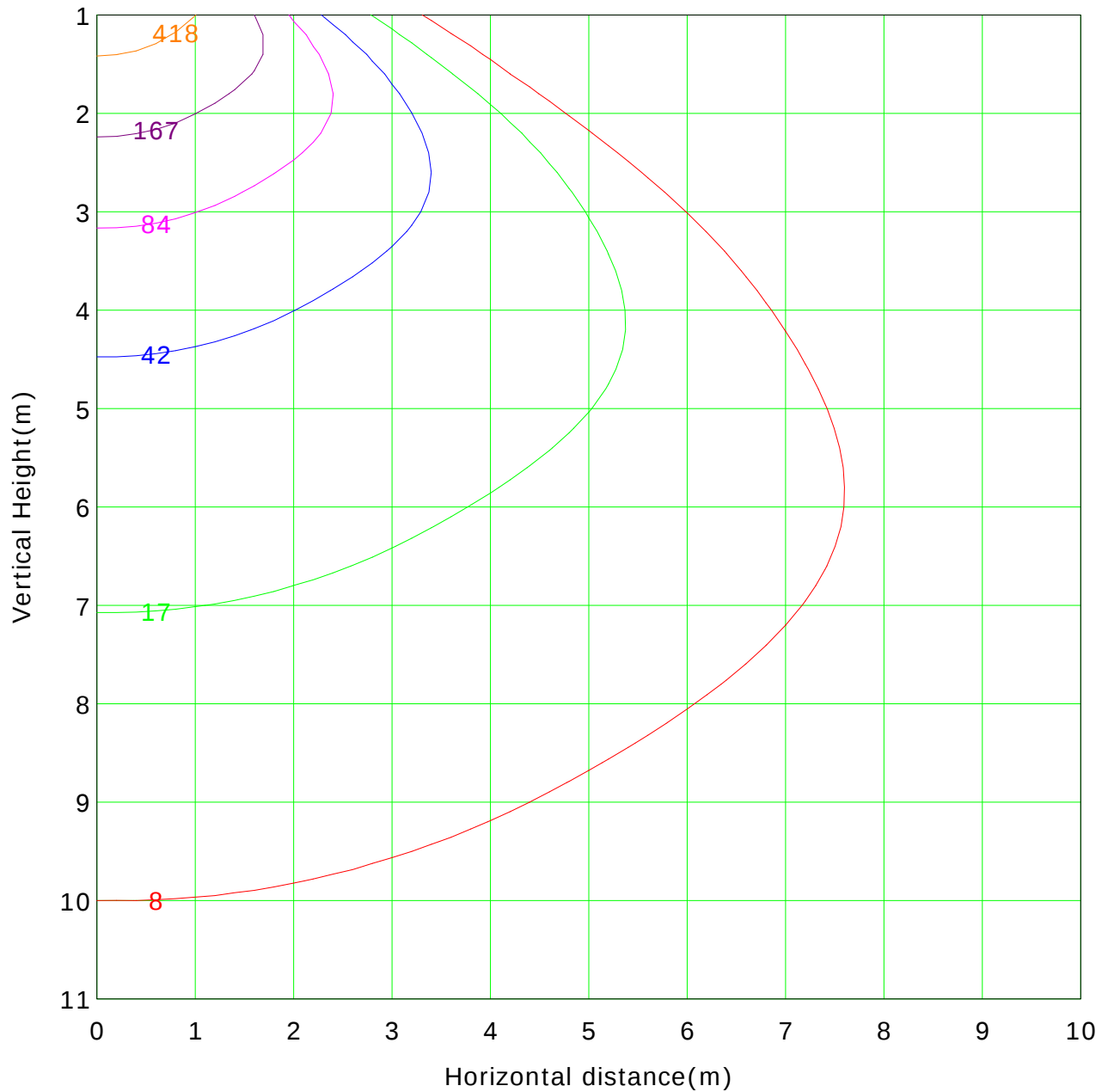
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 835.8 lx

— (1%): 8.4 lx	— (2%): 16.7 lx
— (5%): 41.8 lx	— (10%): 83.6 lx
— (20%): 167.2 lx	— (50%): 417.9 lx
— (100%): 835.8 lx	

Report No.:

Test Time: 31/01/2022 12:25

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-DW15-03 + LLD-03-FB

Lamp Description: F52-400-60822

Luminous Length (mm): 1579 lm

Current: 0.576 A

Power Factor: 1.000

Number of Lamps: 1

Voltage: 24.0 V

Power: 13.82 W

Photometric Results

CIE Class: Direct

Measurement Flux: 201.3 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 149.5, 147.1, 148.3, 148.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 88.6, 82.9, 85.6, 85.6

Luminaire Efficacy Rating (LER): 14.61

Max. Intensity: 97.63 cd

S/MH(C0/C180): 1.10

Total Rated Lamp Lumens: 201.3 lm

Efficiency: 100%

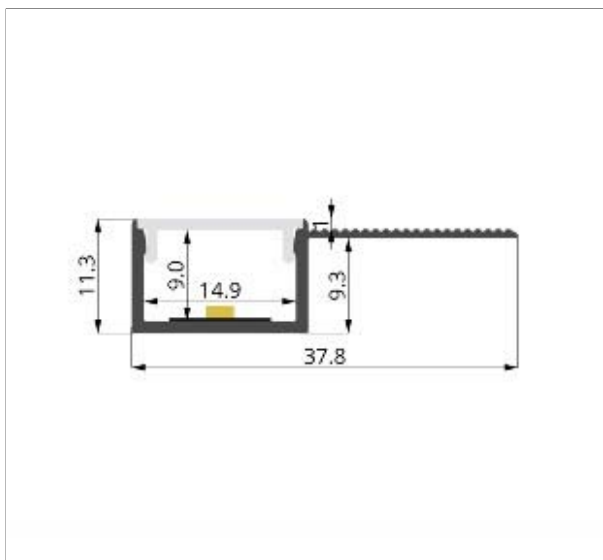
Upward Ratio: 0%

Central Intensity: 97.61 cd

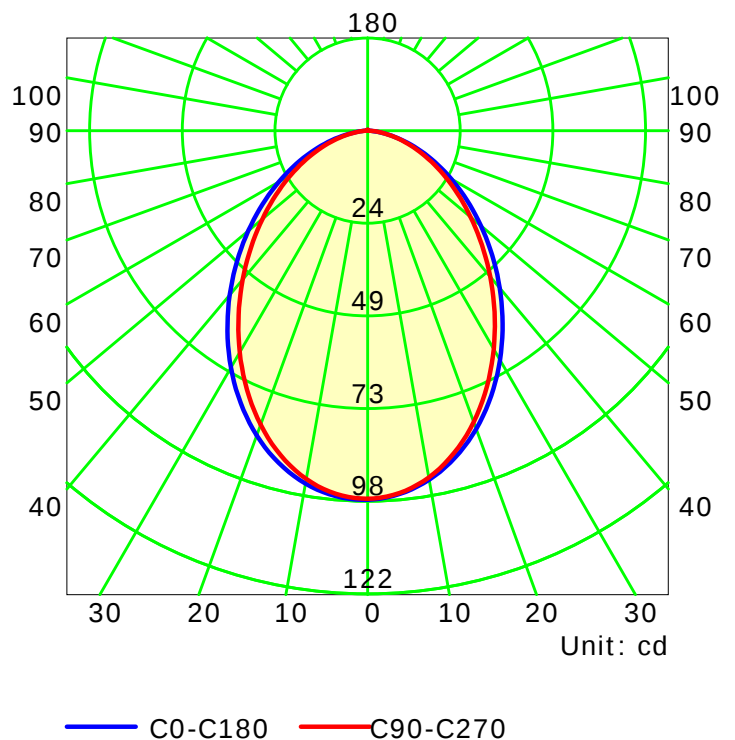
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 1.06

Picture Of Luminaire



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

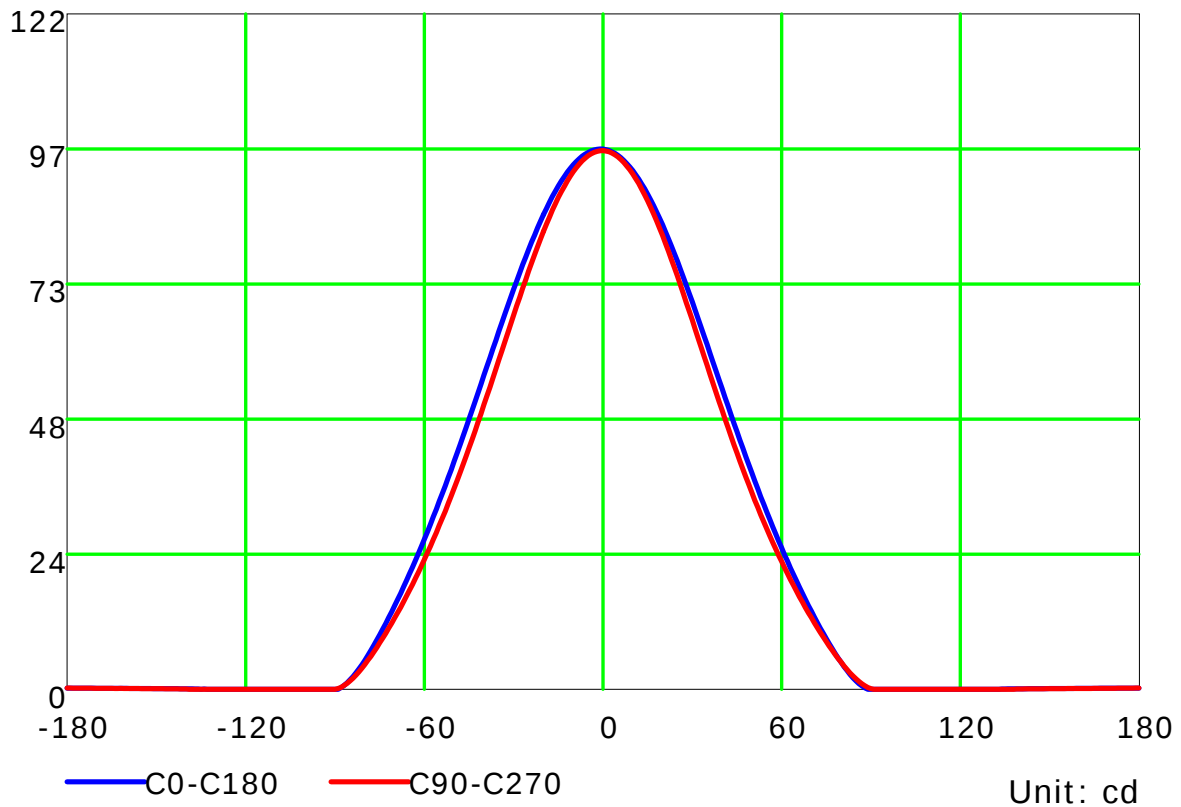
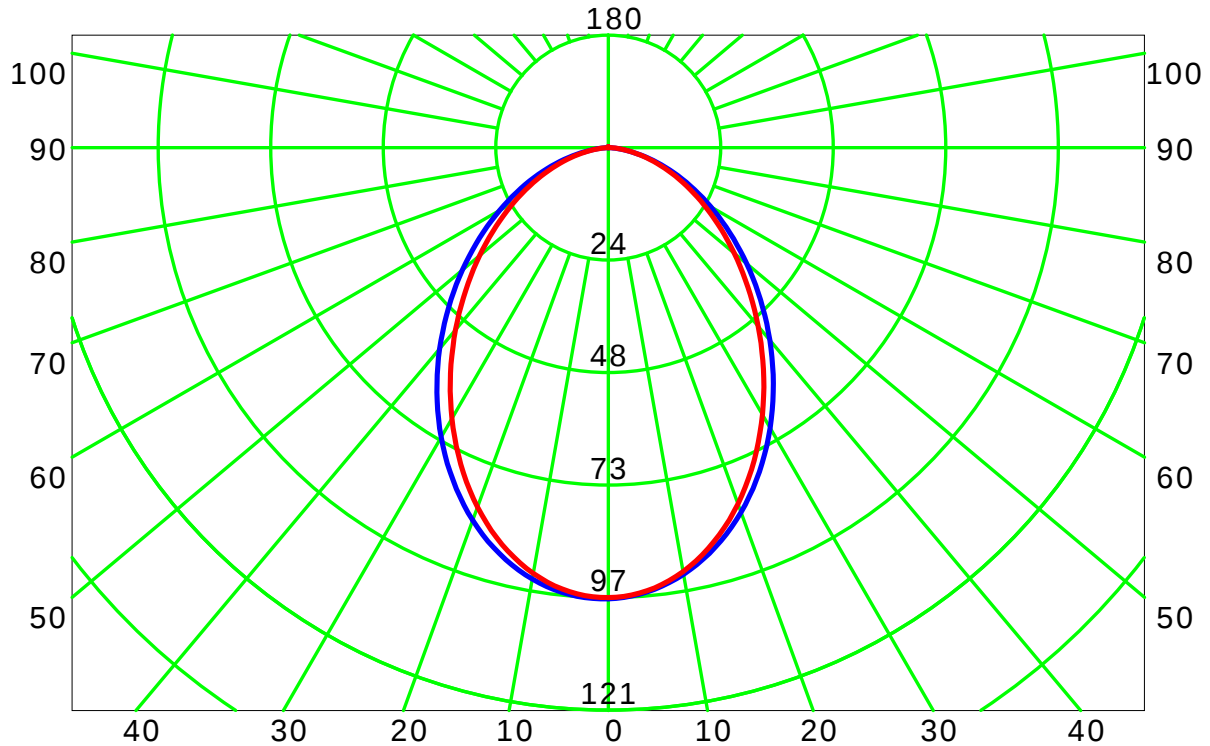
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°): 0.0-180.0: 1.0

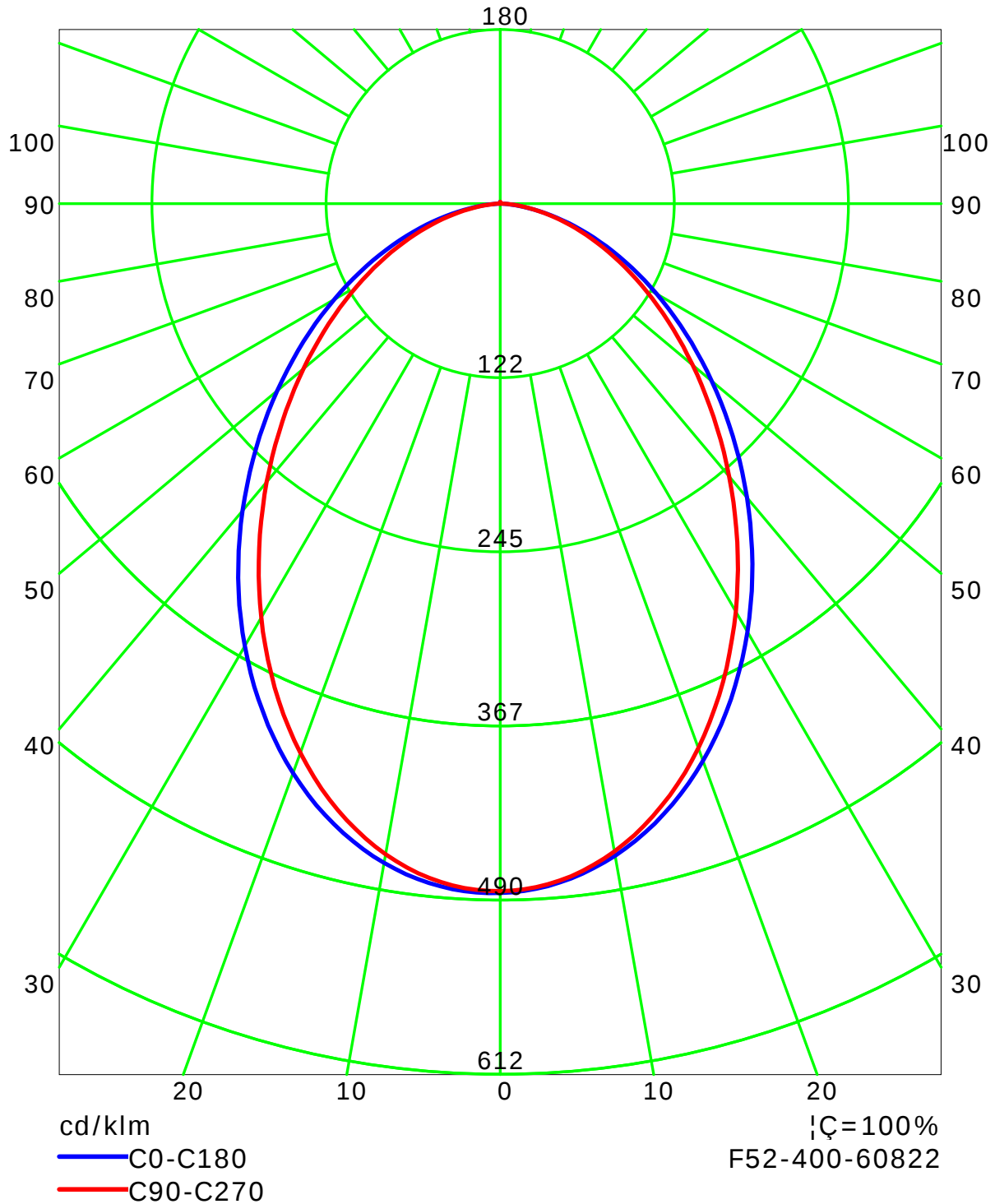
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

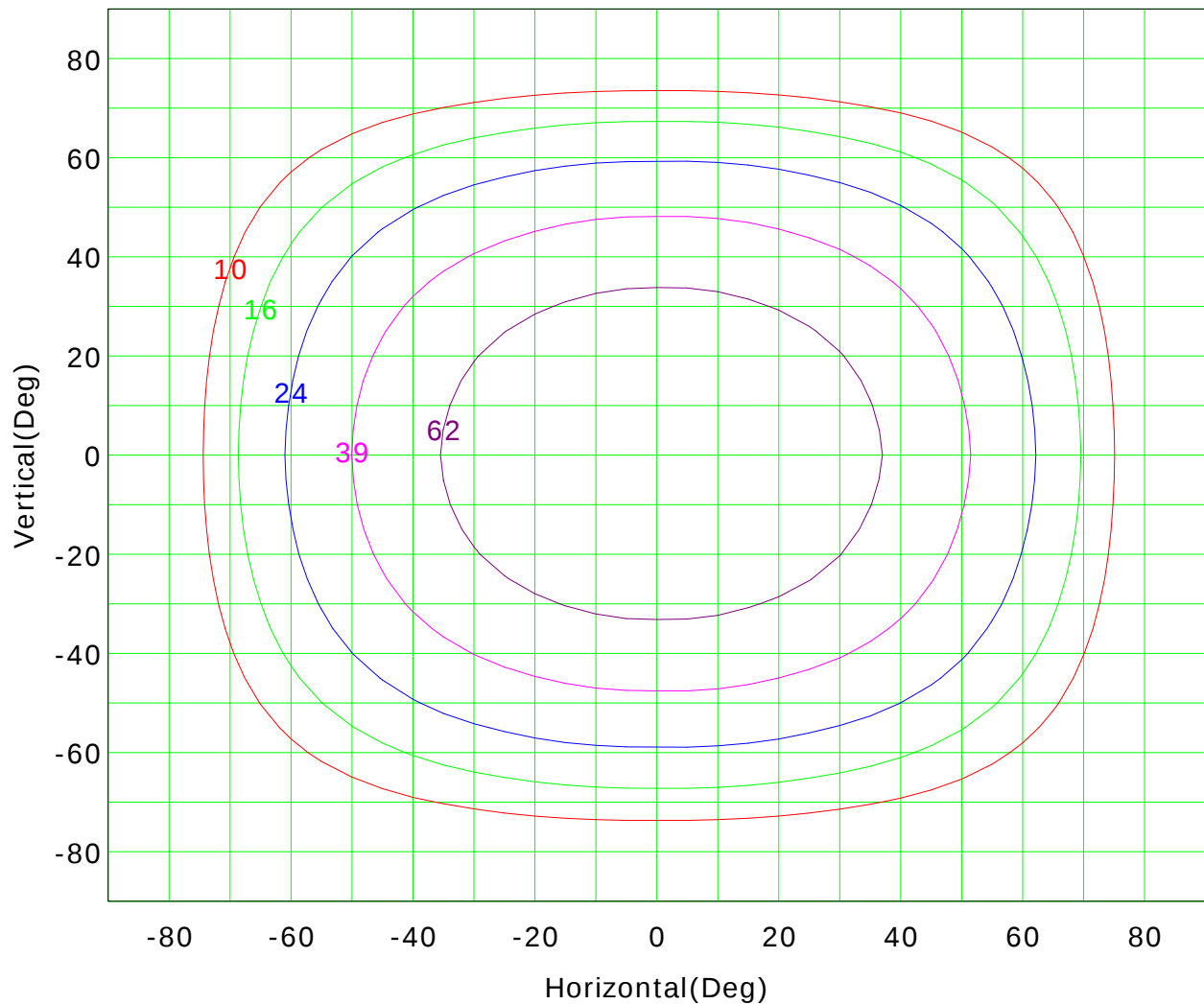
Luminous Intensity Distribution Curve(cd / klm)



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%): 98 cd

(10%):	10 cd	(16%):	16 cd
(25%):	24 cd	(40%):	39 cd
(63%):	62 cd	(100%):	98 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

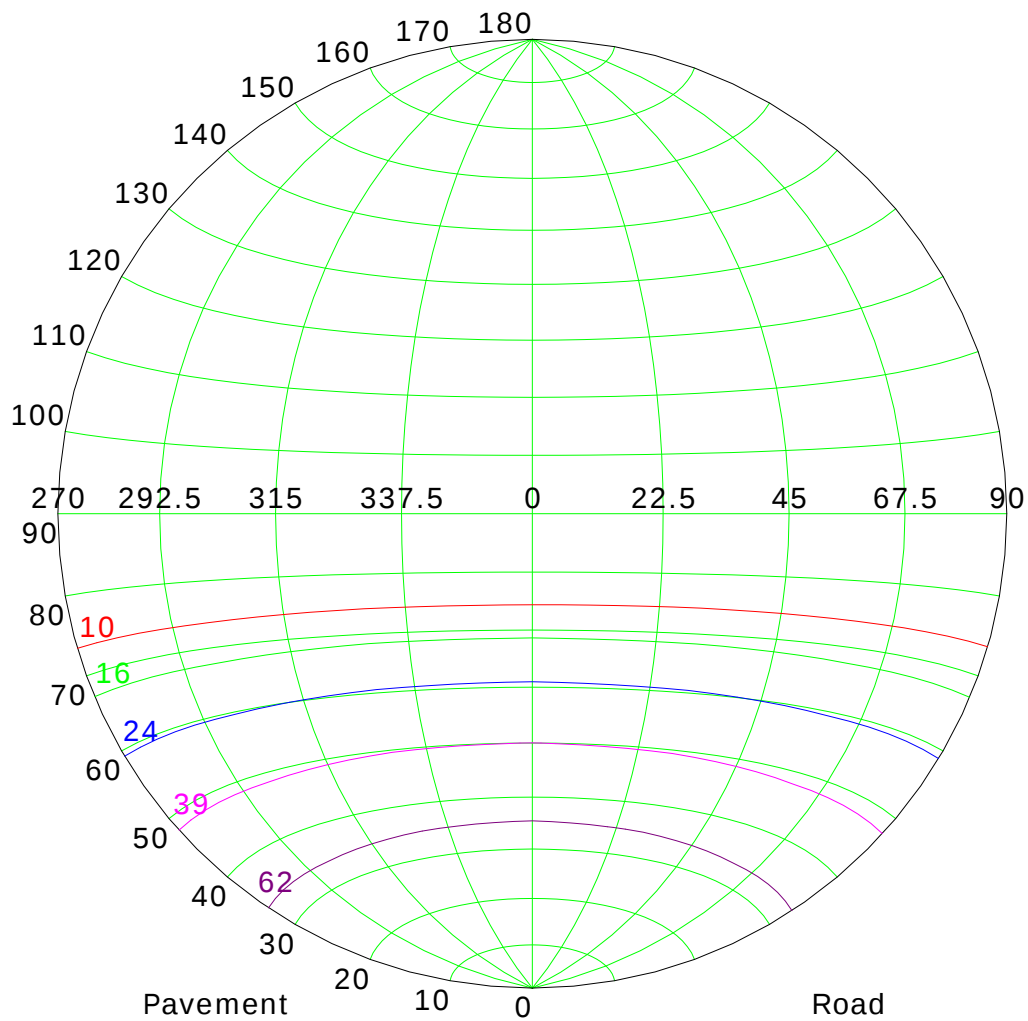
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 98 cd

(10%):	10 cd	(16%):	16 cd
(25%):	24 cd	(40%):	39 cd
(63%):	62 cd	(100%):	98 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

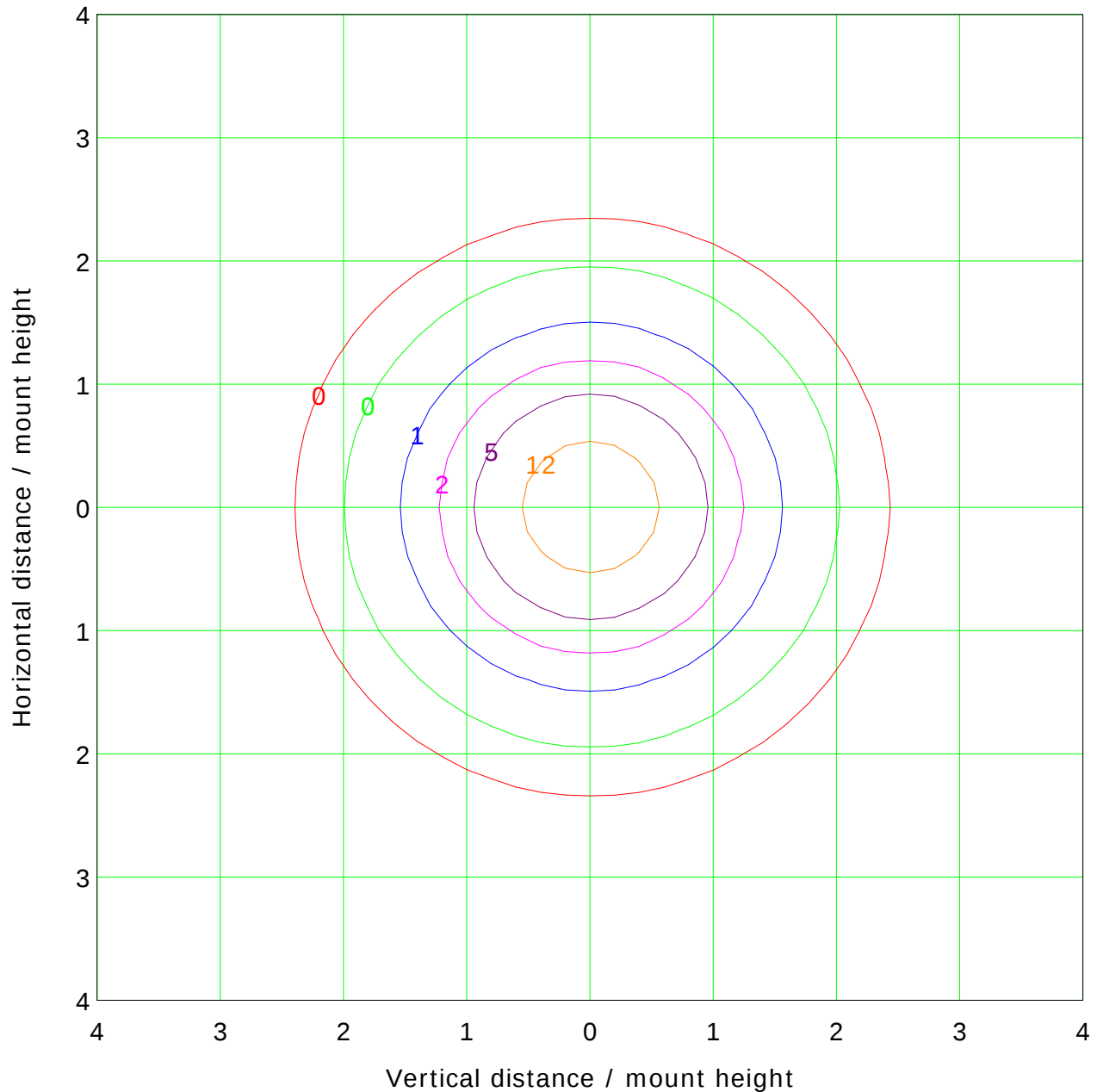
Test Device: GPM-1800B

Distance: 7.979 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 24.4 lx	
— (1%):	0.2 lx	— (2%):	0.5 lx
— (5%):	1.2 lx	— (10%):	2.4 lx
— (20%):	4.9 lx	— (50%):	12.2 lx
— (100%):	24.4 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

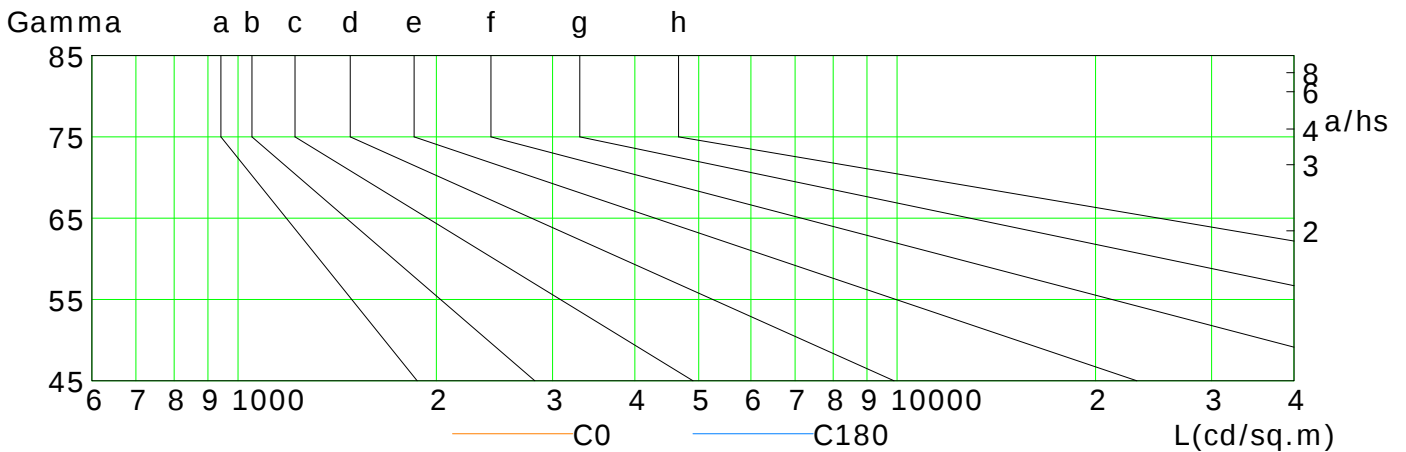
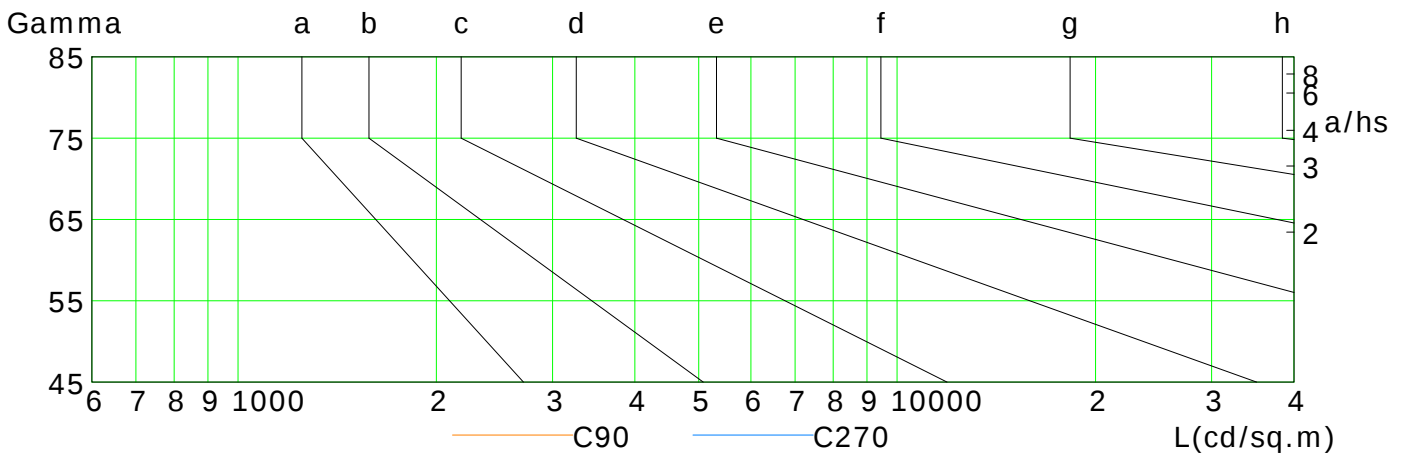
Humidity:

Inspector:

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	47	39	32	26	20	14	9	5	2
C90	43	36	29	23	18	13	9	5	2
C180	49	41	34	27	21	15	10	5	2
C270	44	36	30	23	18	13	8	5	2

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

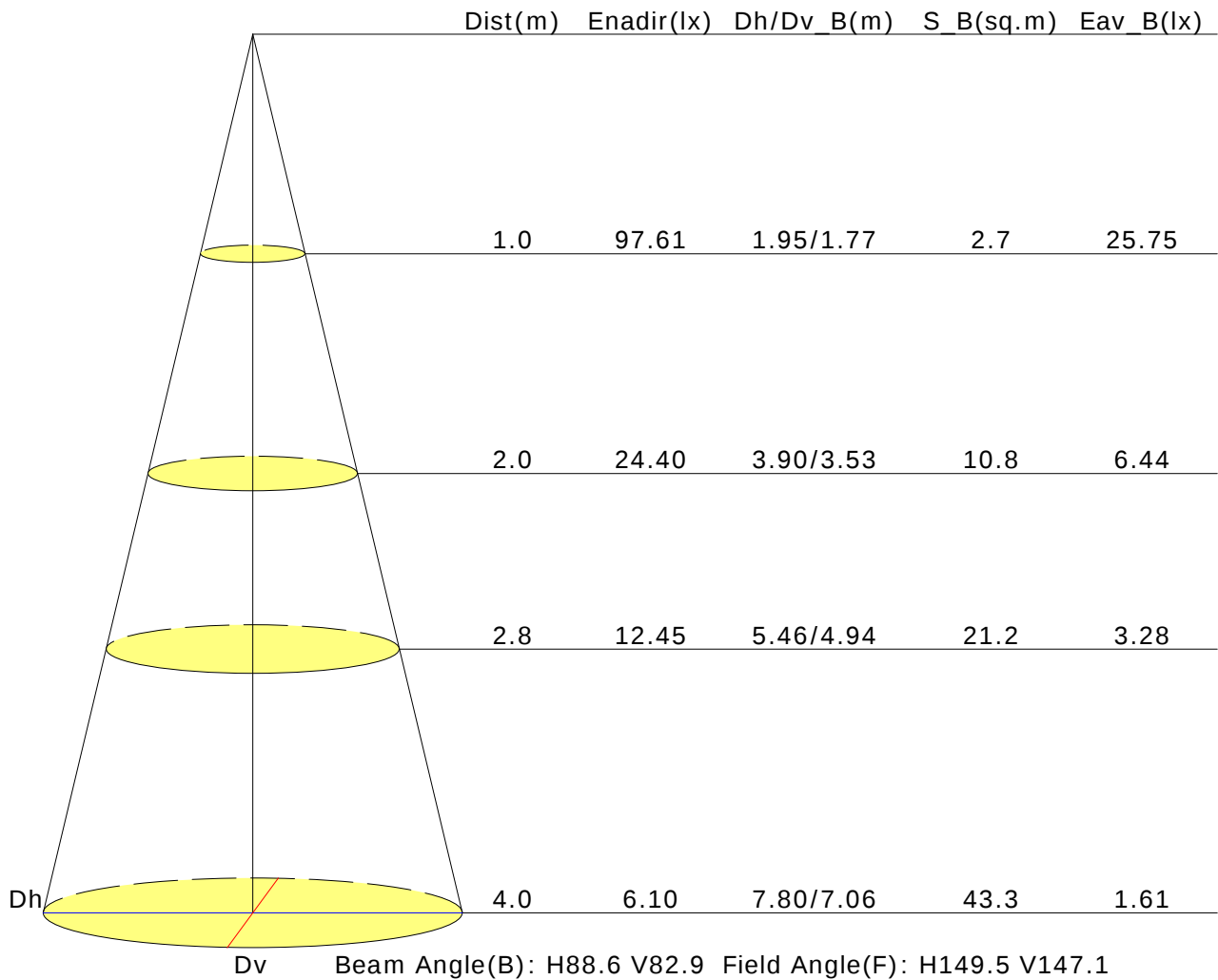
Test Device: GPM-1800B

Distance: 7.979 m

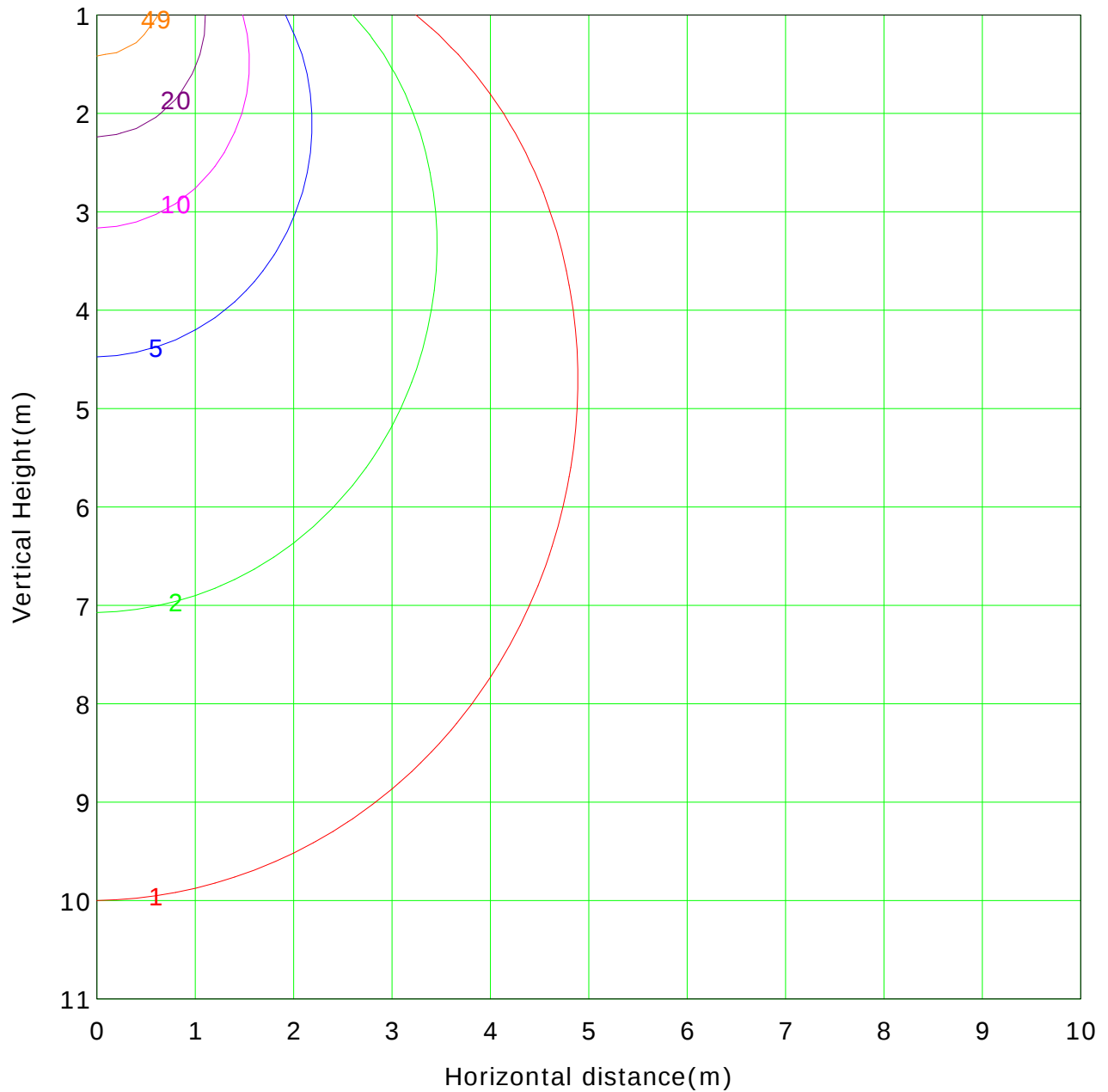
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 97.6 lx
(1%): 1.0 lx	(2%): 2.0 lx	
(5%): 4.9 lx	(10%): 9.8 lx	
(20%): 19.5 lx	(50%): 48.8 lx	
(100%): 97.6 lx		