

Report No.:

Test Time: 03/09/2018 12:56

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-RE06-01 + LLD-01-FM

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1579 lm

Voltage: 24.0 V

Current: 0.591 A

Power: 14.18 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 876.2 lm

Downward Ratio: 55.21%

Total Rated Lamp Lumens: 1579.0 lm

Efficiency: 55.49%

Upward Ratio: 0.28%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.1, 161.8, 161.2, 161.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.4, 112.0, 112.2, 112.3

Luminaire Efficacy Rating (LER): 61.84

Central Intensity: 307.43 cd

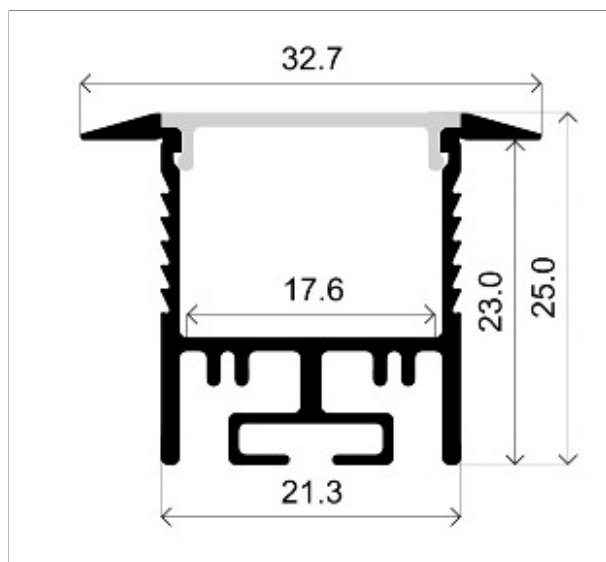
Max. Intensity: 307.43 cd

Pos of Max. Intensity: H0 V0

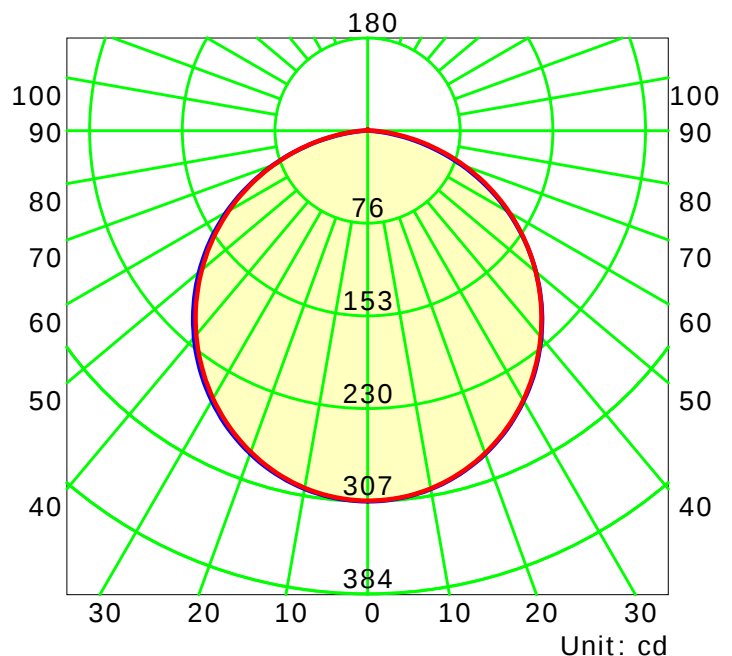
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.25

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

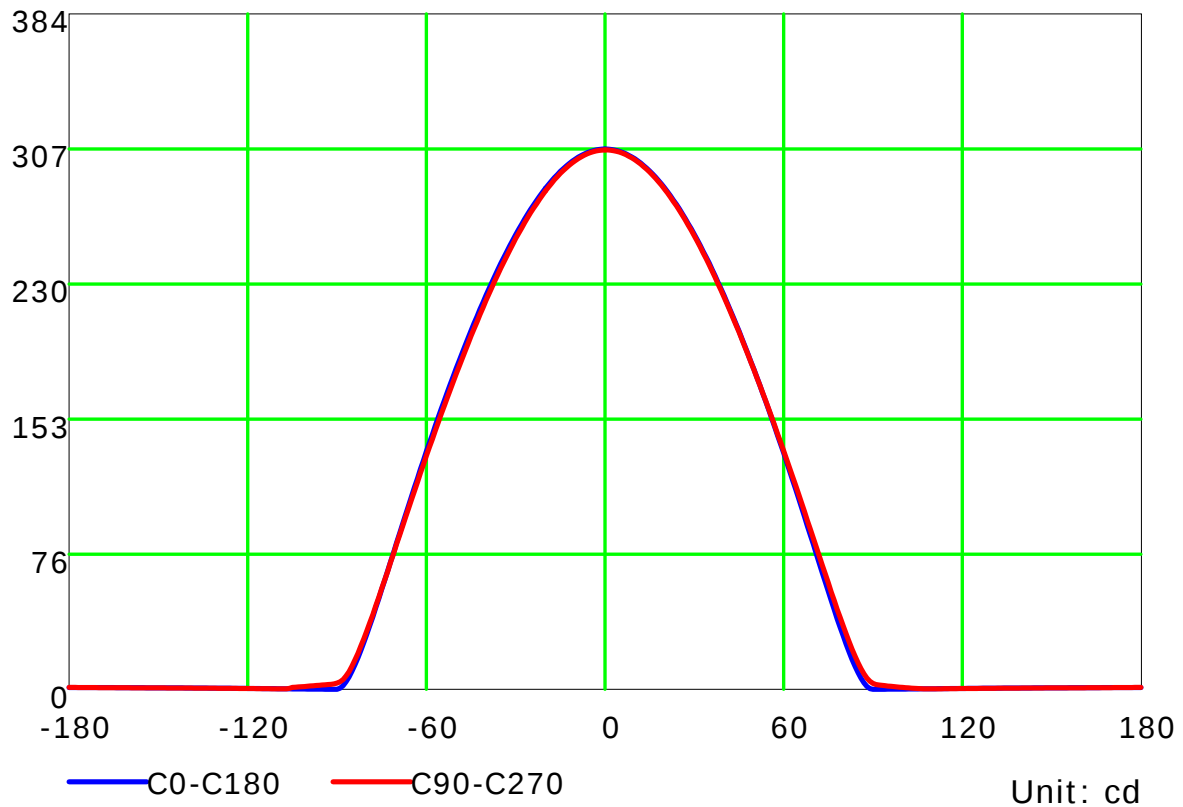
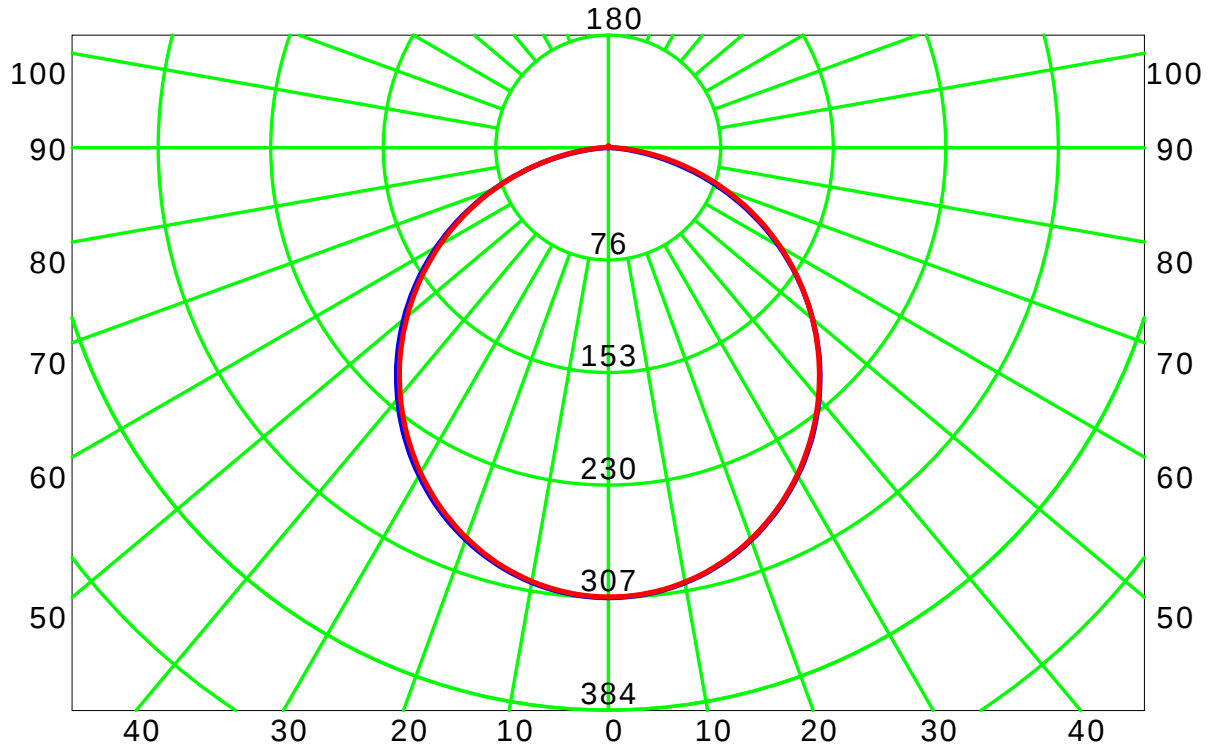
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

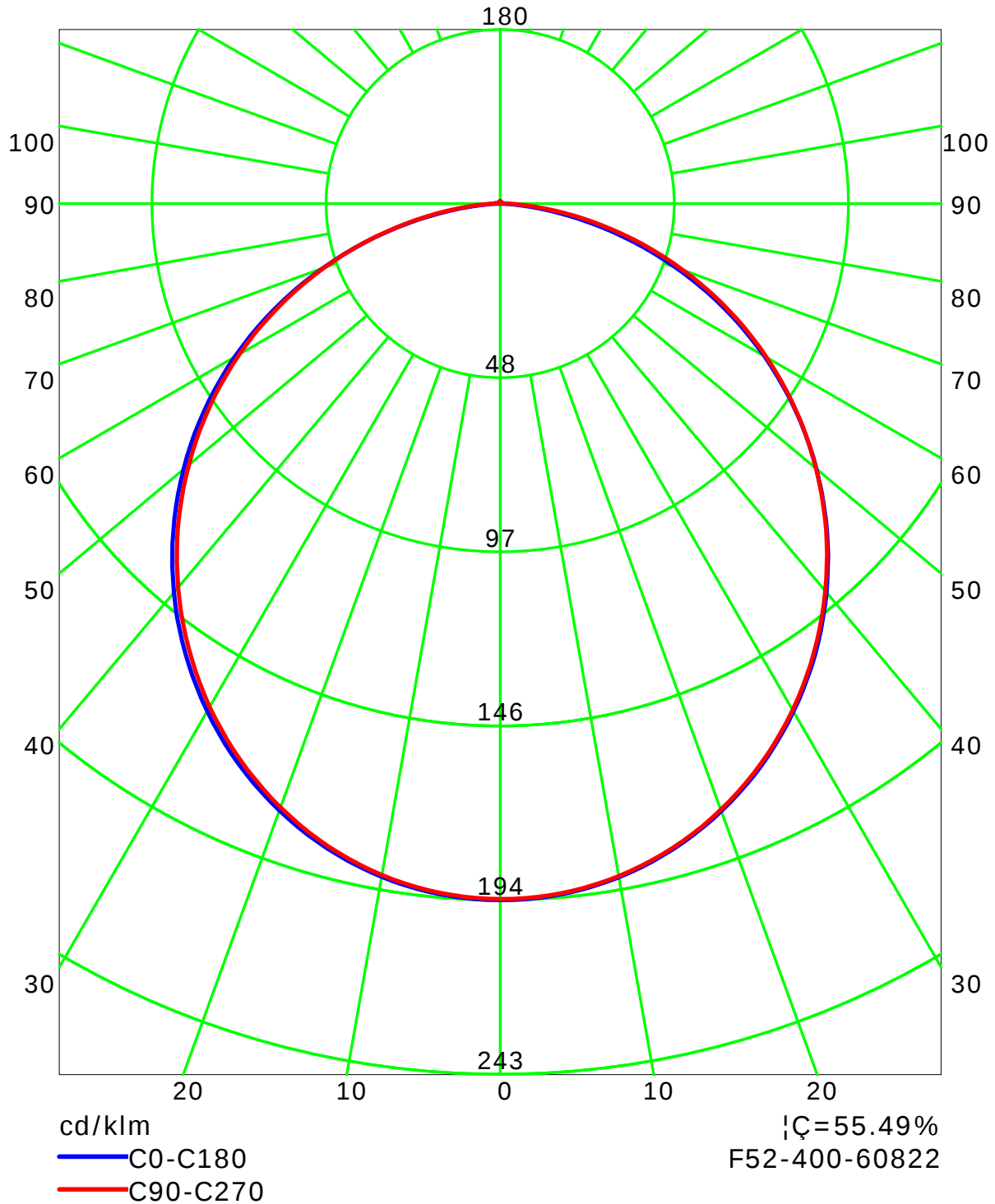
Luminous Intensity Distribution Curve



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-2000
Distance: 7.970 m
Humidity:
Inspector:

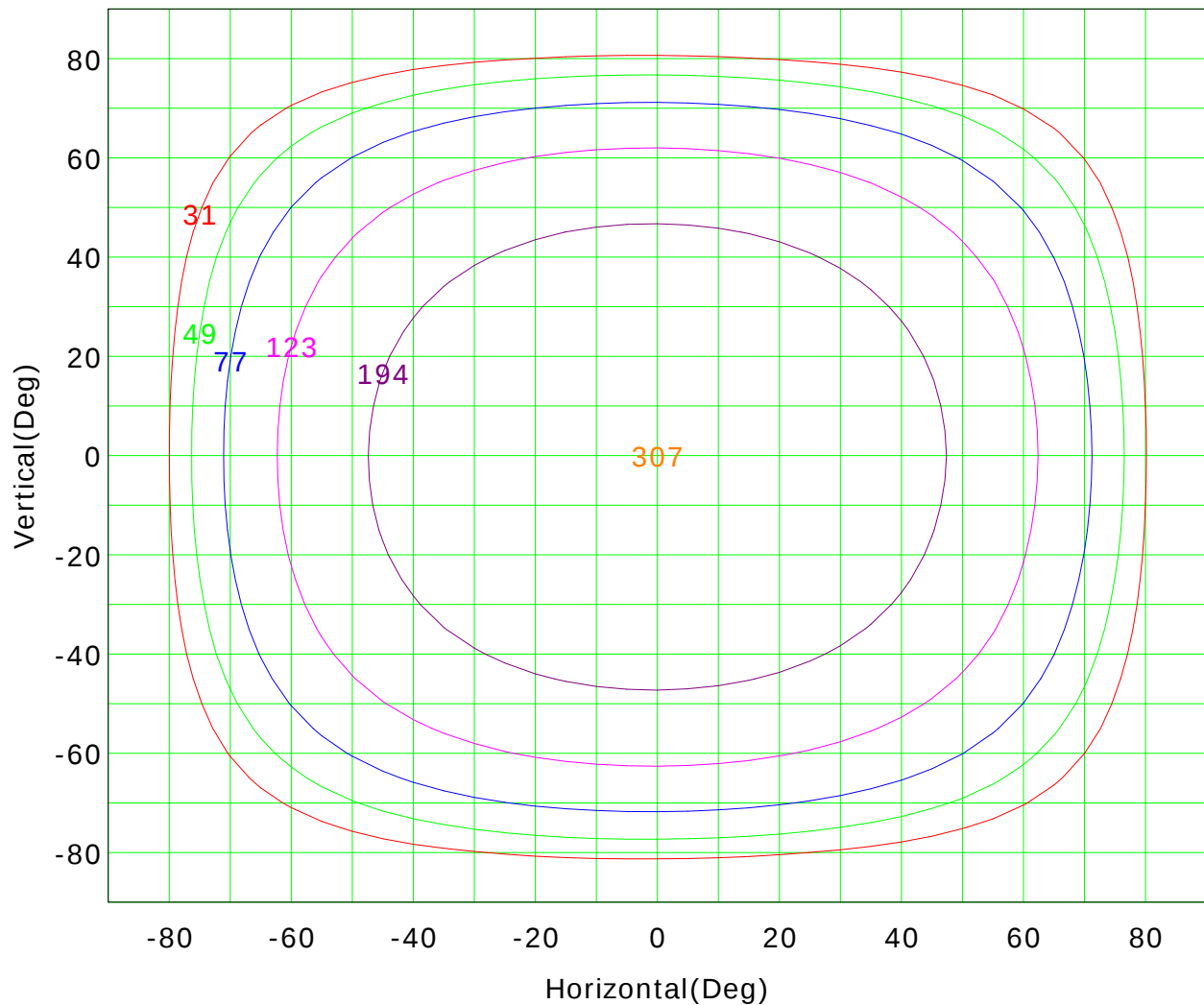
Luminous Intensity Distribution Curve(cd / klm)



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-2000
Distance: 7.970 m
Humidity:
Inspector:

Isocandela (rectangle)



I_{max} (100%): 307 cd

(10%):	31 cd	(16%):	49 cd
(25%):	77 cd	(40%):	123 cd
(63%):	194 cd	(100%):	307 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

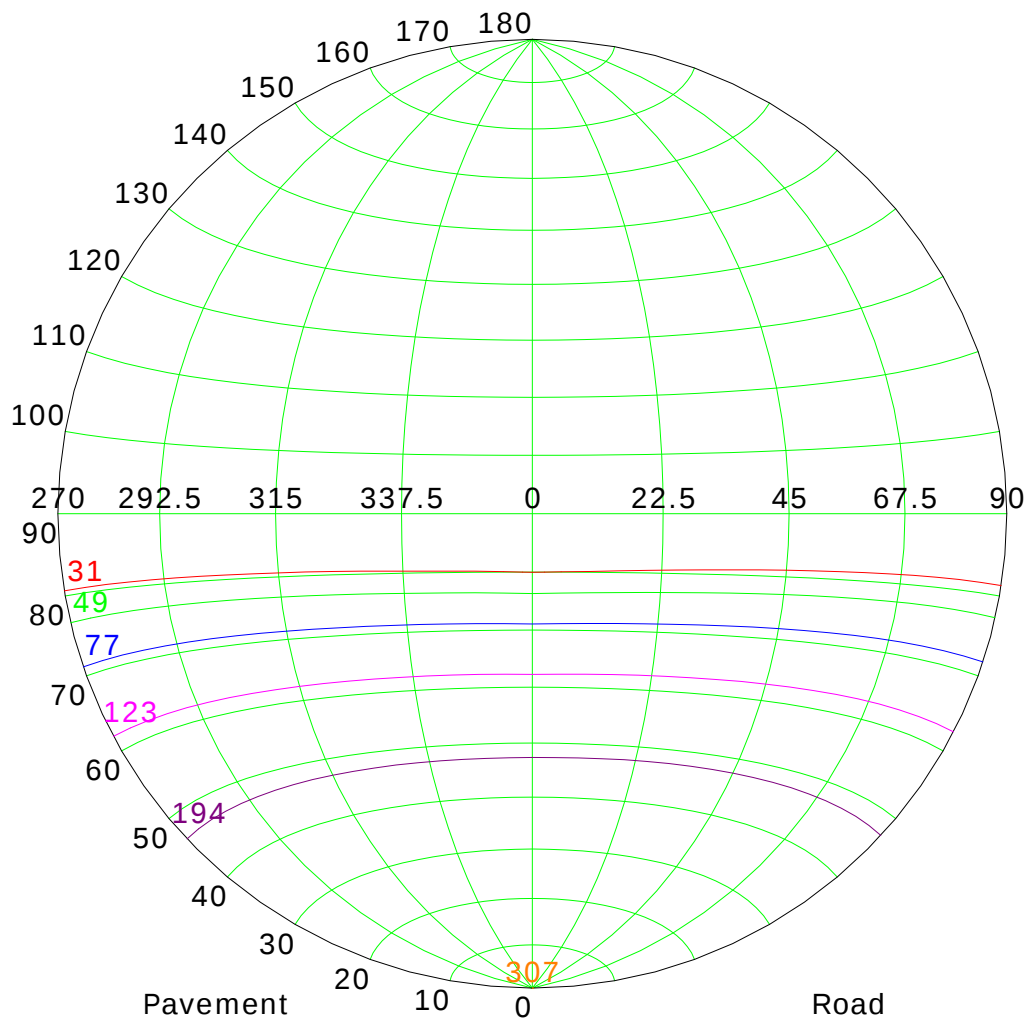
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 307 cd

(10%):	31 cd	(16%):	49 cd
(25%):	77 cd	(40%):	123 cd
(63%):	194 cd	(100%):	307 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

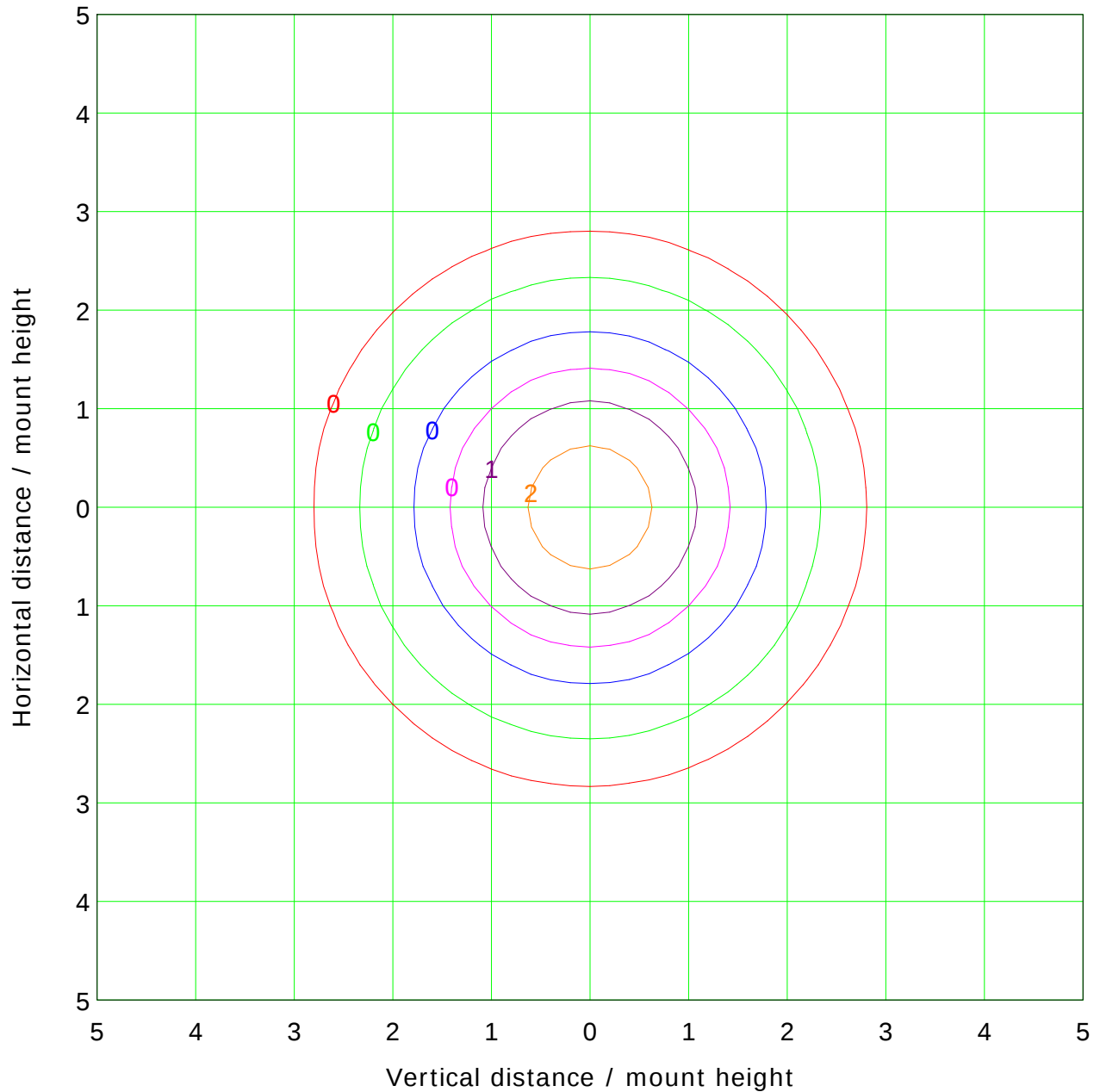
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 3.1 lx

(1%): 0.0 lx	(2%): 0.1 lx
(5%): 0.2 lx	(10%): 0.3 lx
(20%): 0.6 lx	(50%): 1.5 lx
(100%): 3.1 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-2000

Distance: 7.970 m

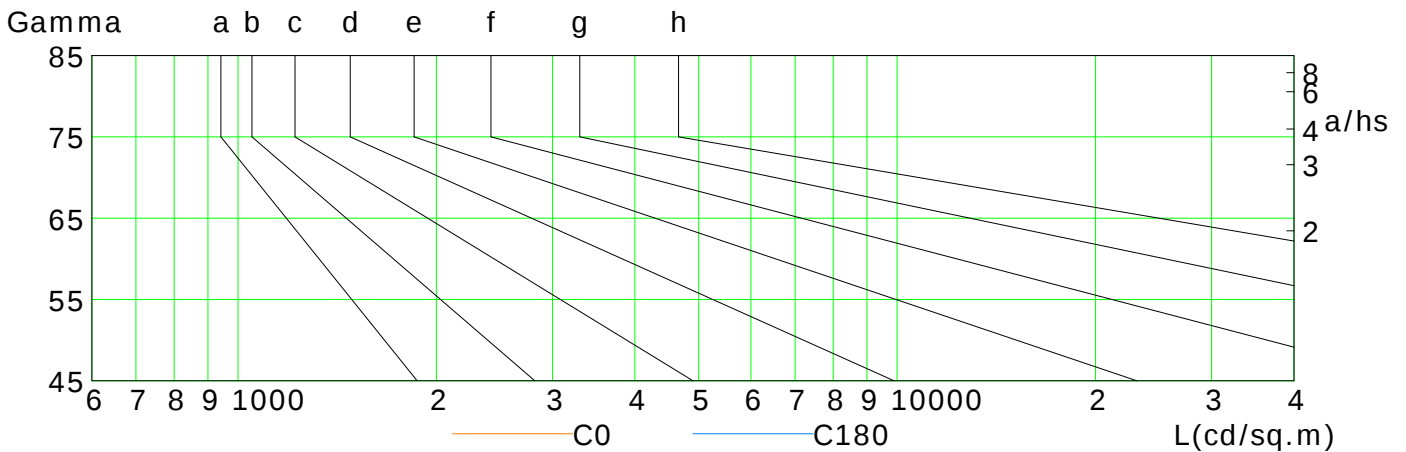
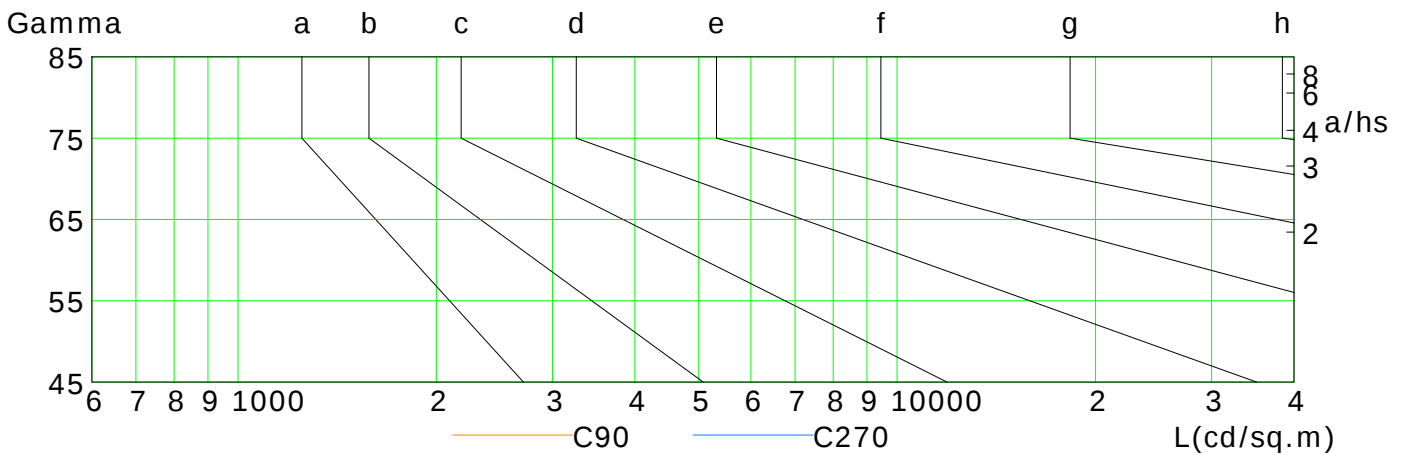
Humidity:

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	204	182	159	135	109	83	56	31	10
C90	203	182	159	136	111	86	61	36	15
C180	204	183	160	135	110	83	57	31	10
C270	201	179	157	133	108	83	57	33	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

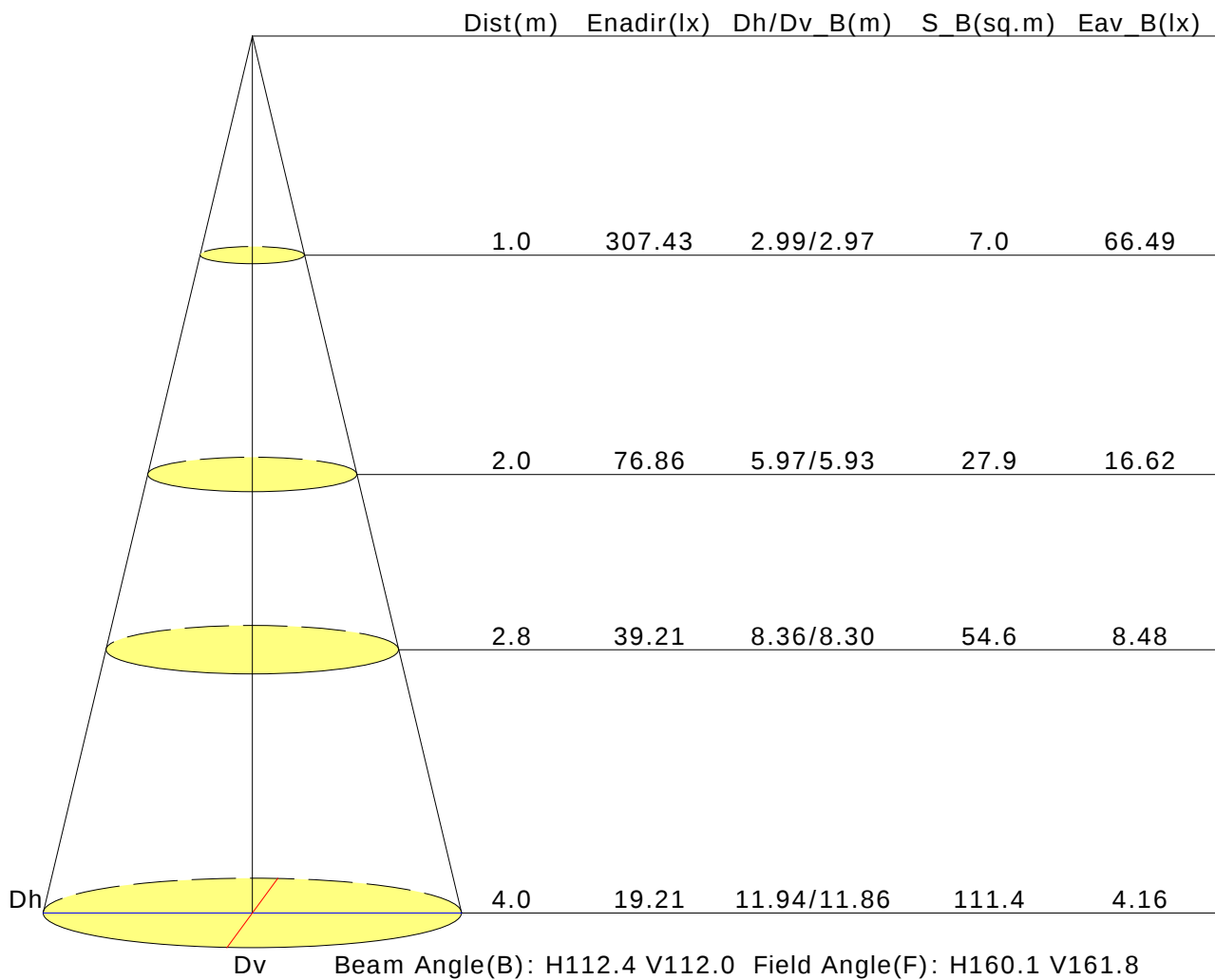
Test Device: GPM-2000

Distance: 7.970 m

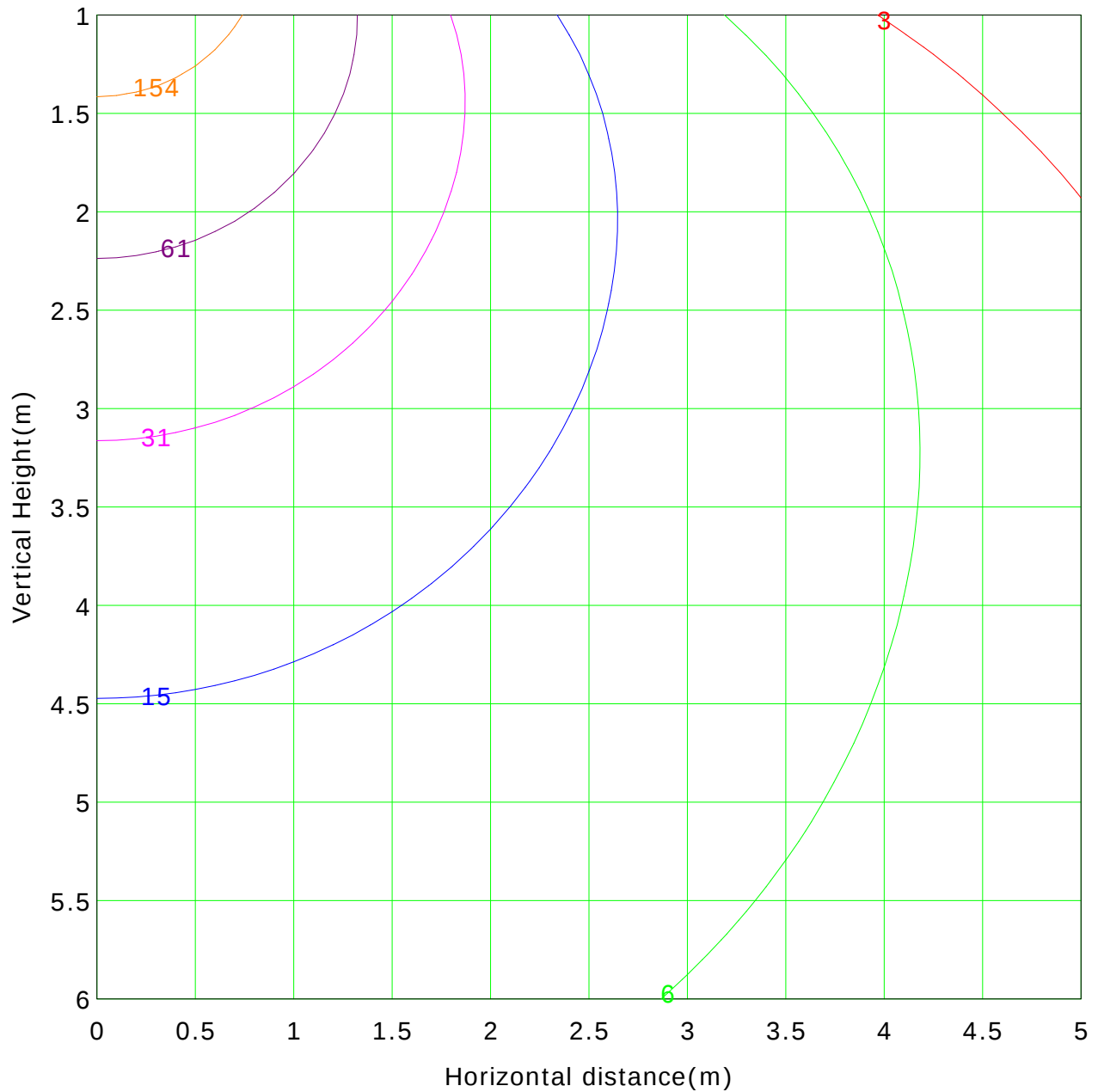
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 6.0m	Max Lux: 307.4 lx
(1%): 3.1 lx	(2%): 6.1 lx	
(5%): 15.4 lx	(10%): 30.7 lx	
(20%): 61.5 lx	(50%): 153.7 lx	
(100%): 307.4 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-2000
Distance: 7.970 m
Humidity:
Inspector:

Report No.:

Test Time: 03/09/2018 14:33

Luminaire Property

Luminaire Manufacturer: Lighting Line

Luminaire Description: LLP-RE06-01 + LLD-01-CM

Lamp Description: F52-400-60822

Number of Lamps: 1

Lumens per Lamp: 1579 lm

Voltage: 24.0 V

Current: 0.598 A

Power: 14.34 W

Power Factor: 1.000

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 975.5 lm

Downward Ratio: 54.33%

Total Rated Lamp Lumens: 1579.0 lm

Efficiency: 61.78%

Upward Ratio: 7.45%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.2, 260.6, 229.3, 229.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.6, 144.6, 132.4, 132.5

Luminaire Efficacy Rating (LER): 68.07

Central Intensity: 238.08 cd

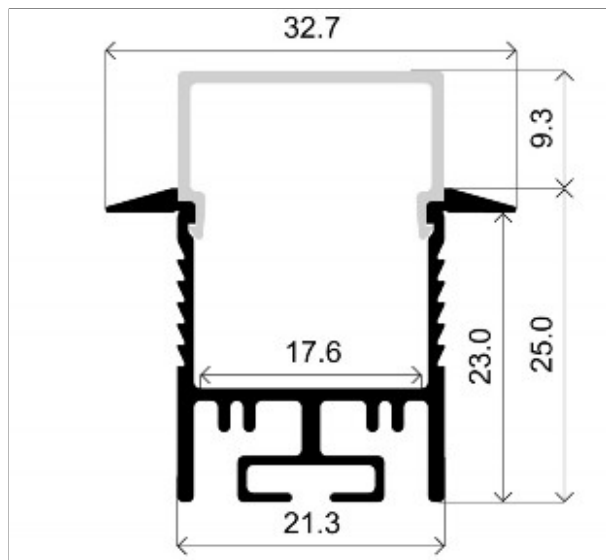
Max. Intensity: 240.09 cd

Pos of Max. Intensity: H270 V14

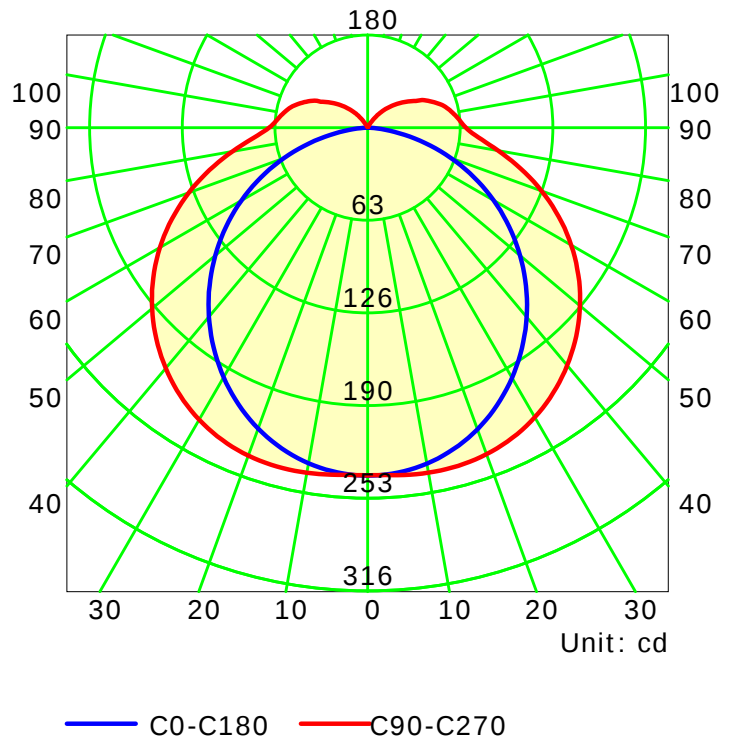
S/MH(C0/C180): 1.23

S/MH(C90/C270): 1.43

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

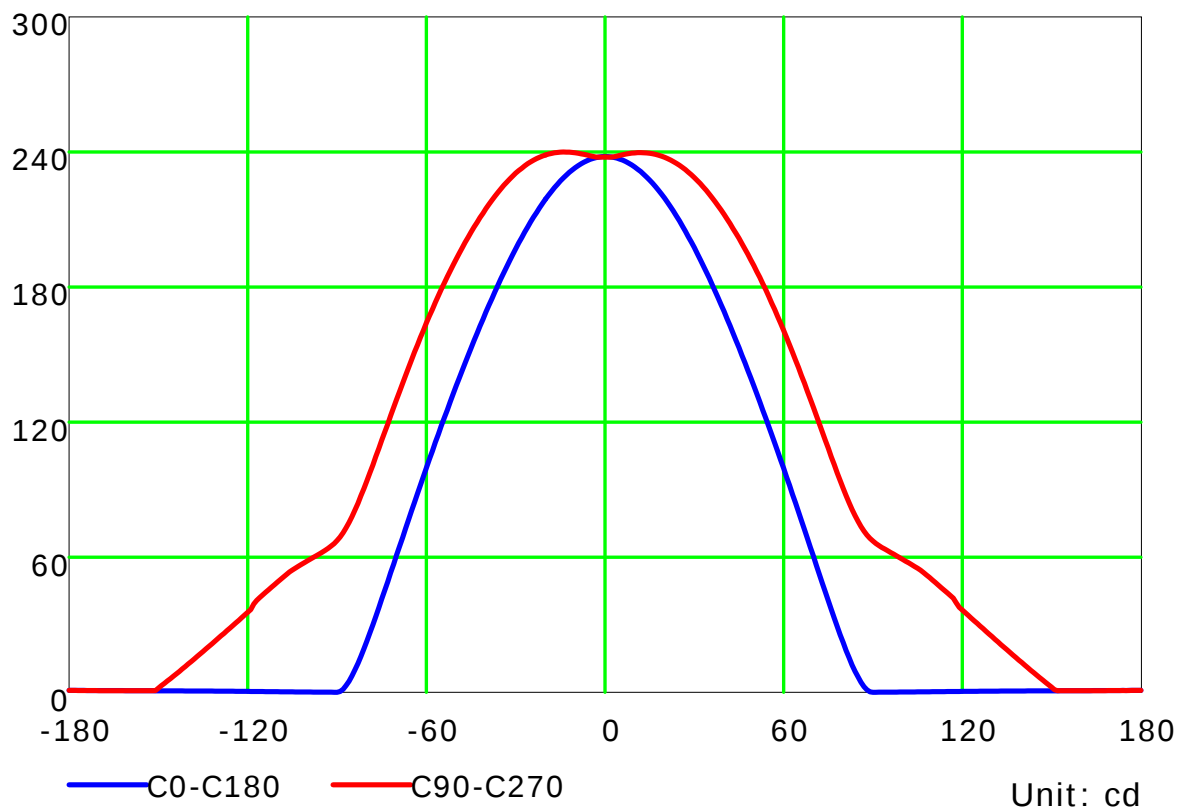
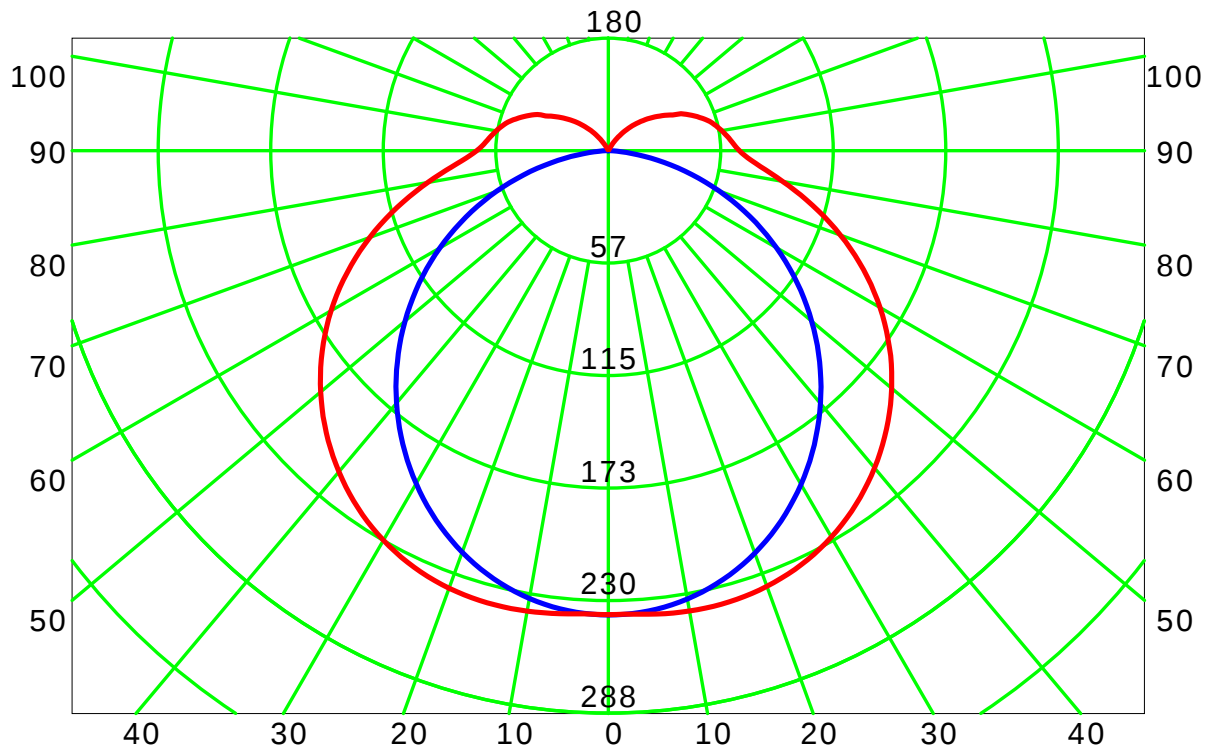
Test Device: GPM-2000

Distance: 7.970 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

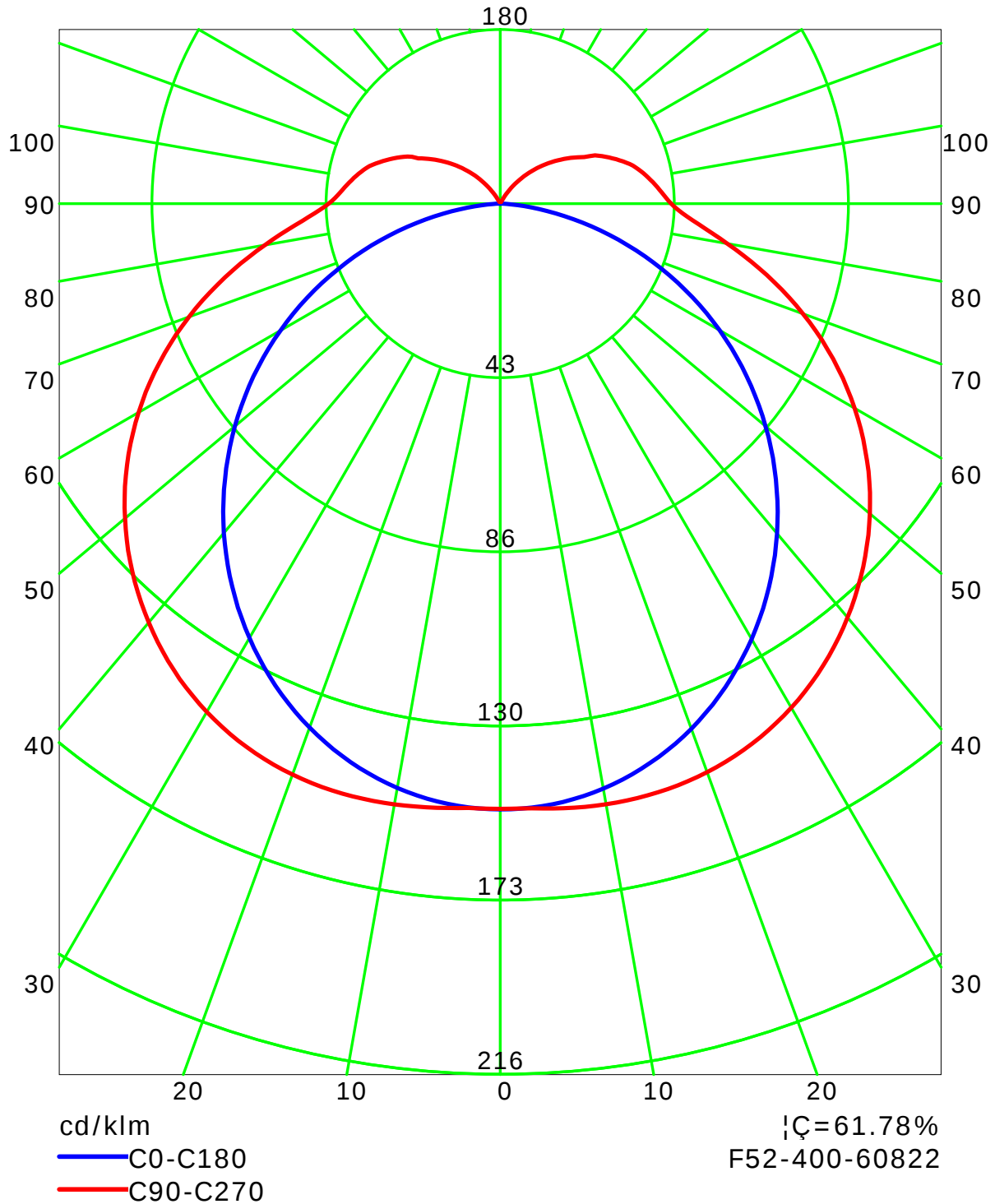
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

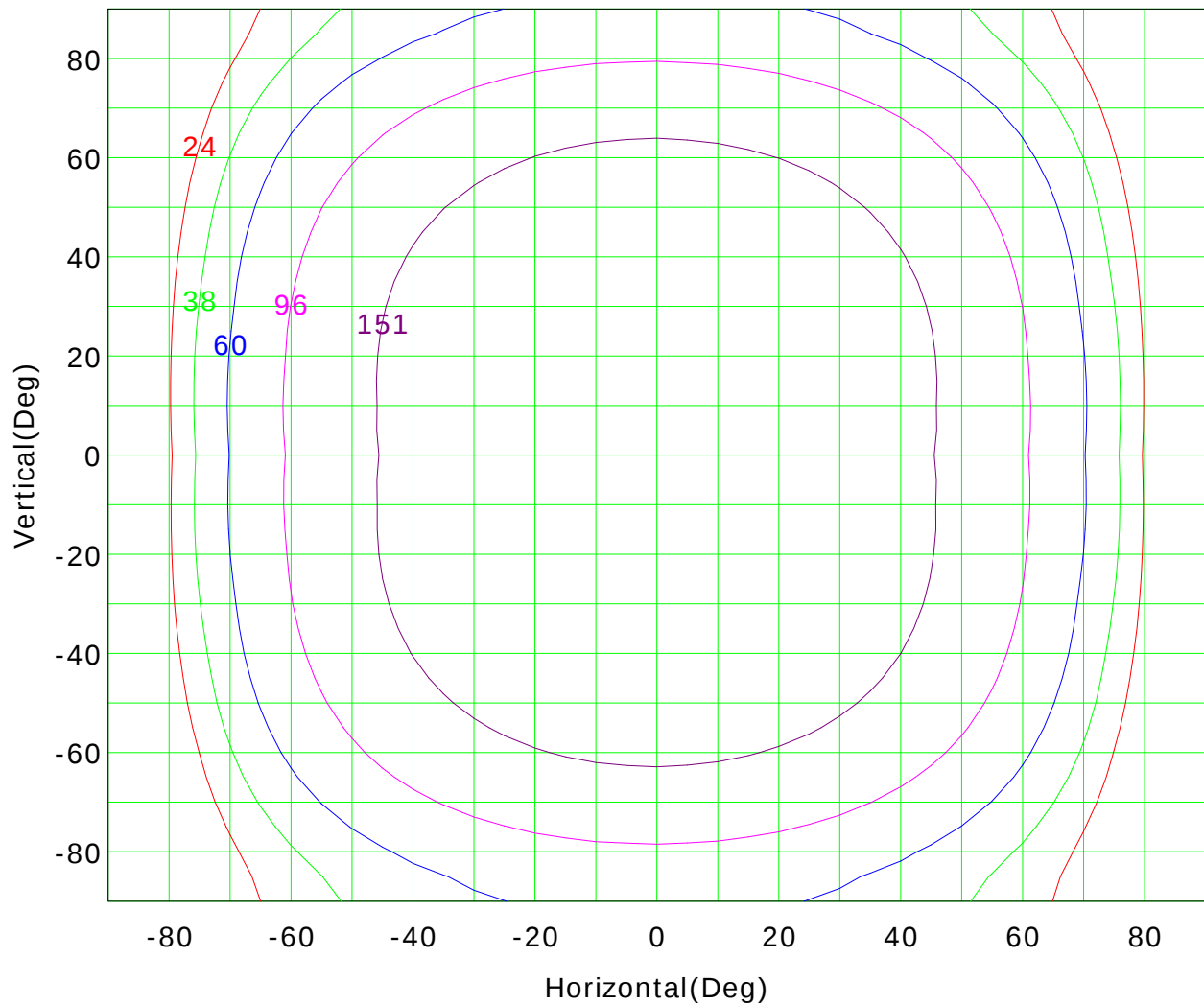
Luminous Intensity Distribution Curve(cd / klm)



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-2000
Distance: 7.970 m
Humidity:
Inspector:

Isocandela (rectangle)



I_{max} (100%): 240 cd

(10%):	24 cd	(16%):	38 cd
(25%):	60 cd	(40%):	96 cd
(63%):	151 cd	(100%):	240 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

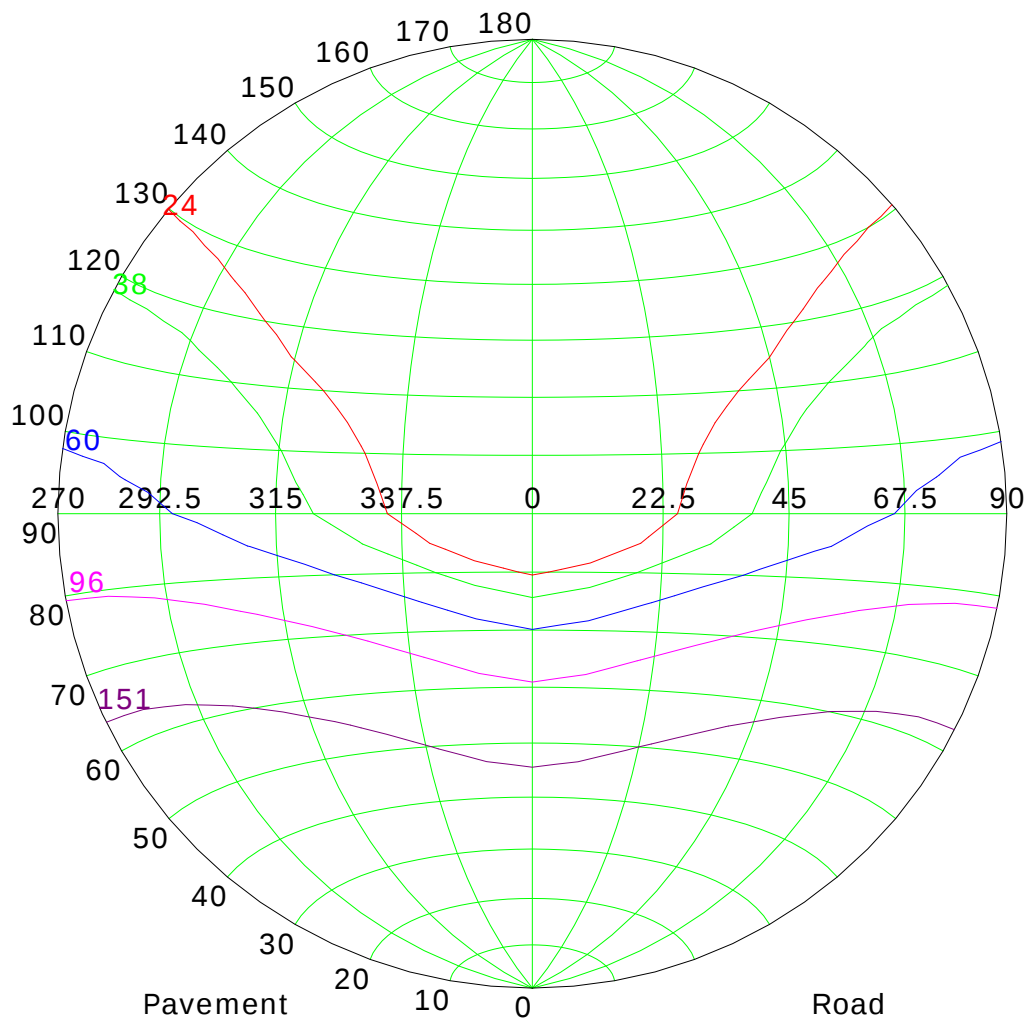
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 240 cd

(10%):	24 cd	(16%):	38 cd
(25%):	60 cd	(40%):	96 cd
(63%):	151 cd	(100%):	240 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

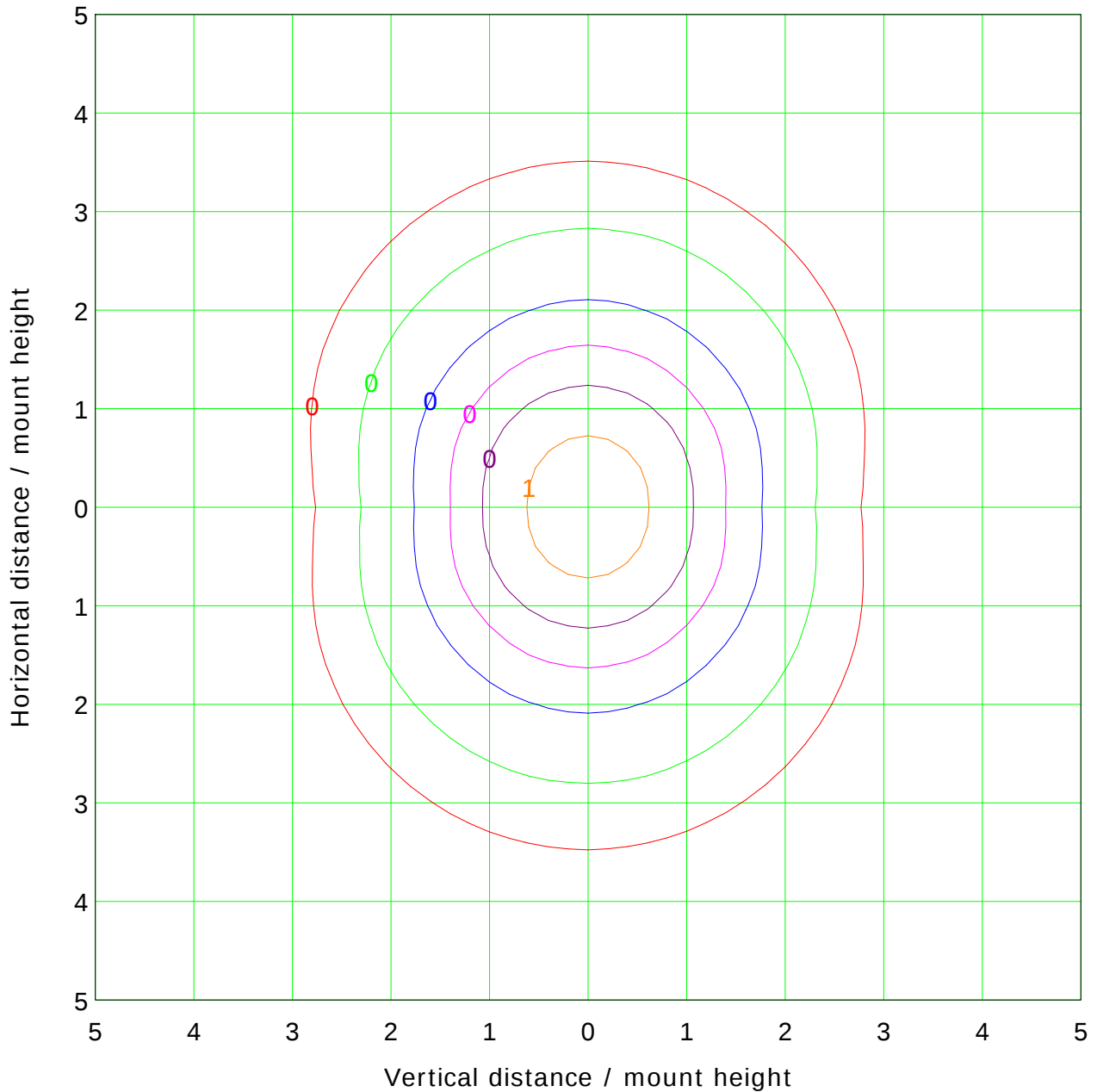
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 2.4 lx

— (1%): 0.0 lx	— (2%): 0.0 lx
— (5%): 0.1 lx	— (10%): 0.2 lx
— (20%): 0.5 lx	— (50%): 1.2 lx
— (100%): 2.4 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-2000

Distance: 7.970 m

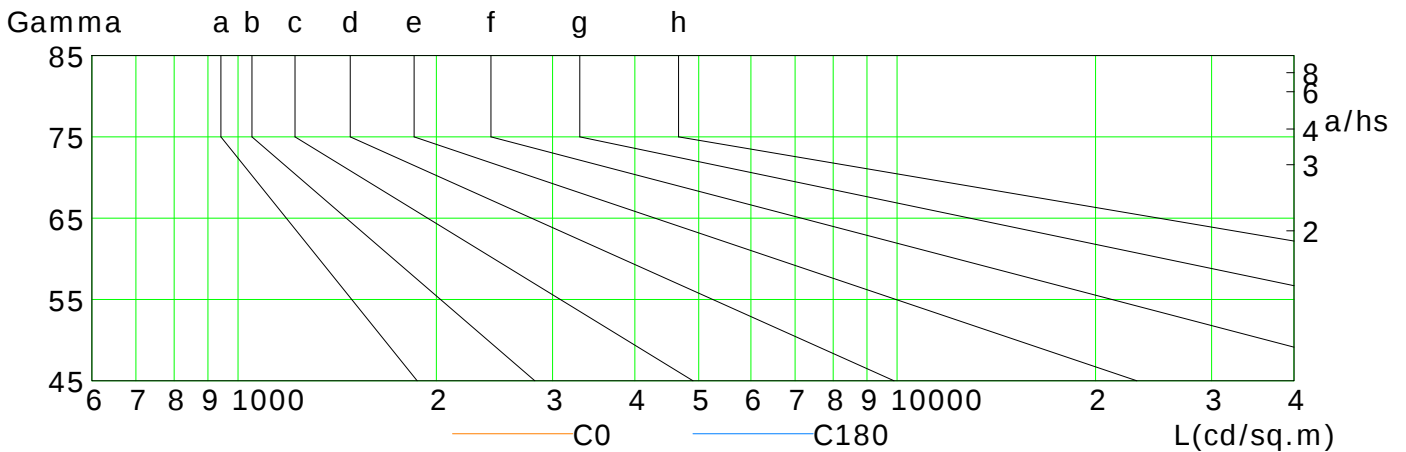
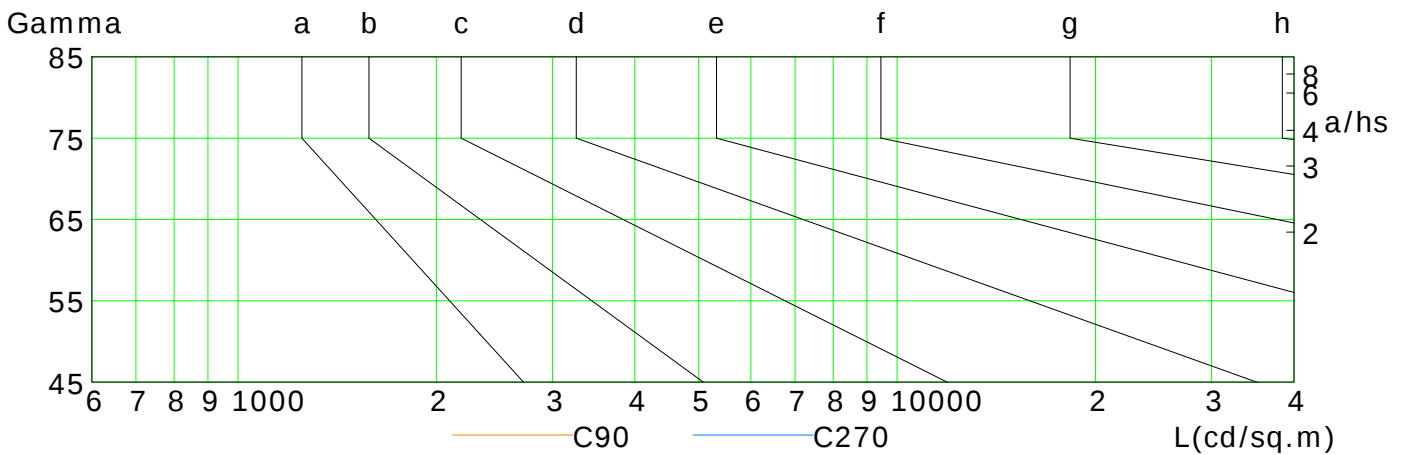
Humidity:

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	153	136	118	100	80	61	41	22	7
C90	202	190	176	161	144	127	108	91	76
C180	153	136	118	100	81	61	41	23	7
C270	205	193	179	164	148	130	112	94	78

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

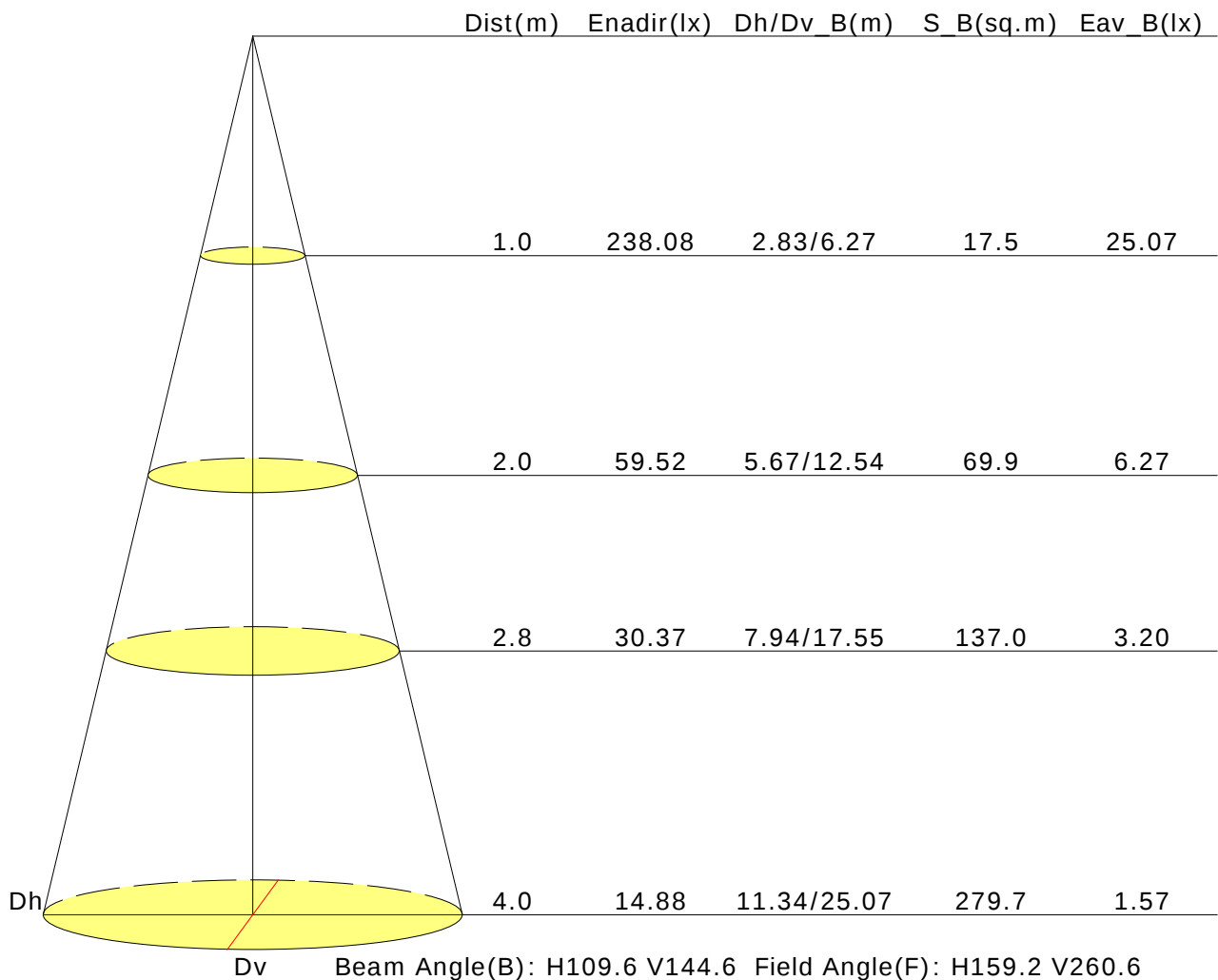
Test Device: GPM-2000

Distance: 7.970 m

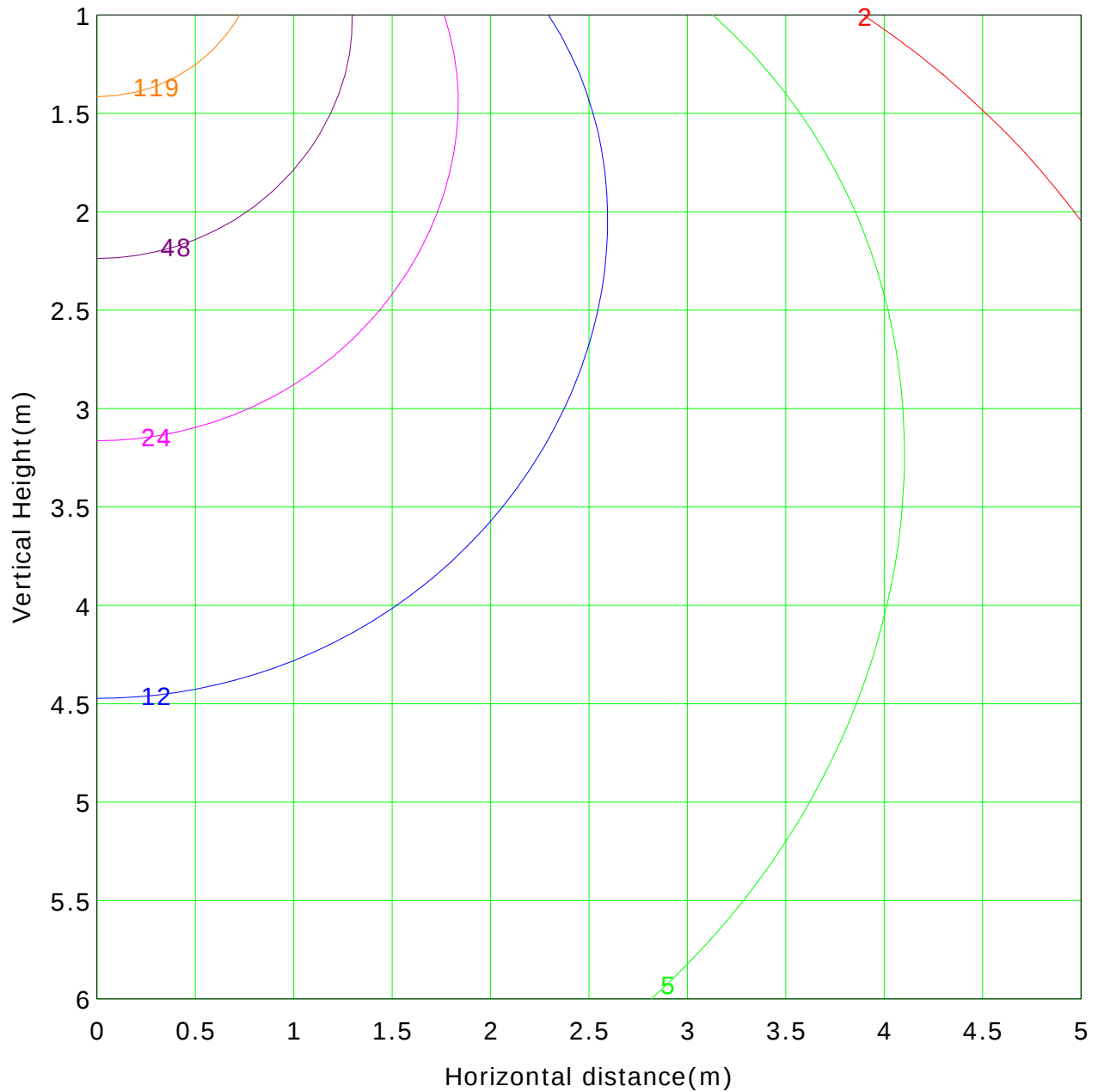
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 6.0m Max Lux: 238.1 lx

(1%): 2.4 lx	(2%): 4.8 lx
(5%): 11.9 lx	(10%): 23.8 lx
(20%): 47.6 lx	(50%): 119.0 lx
(100%): 238.1 lx	