



Report No.:

Test Time: 04/10/2018 12:40

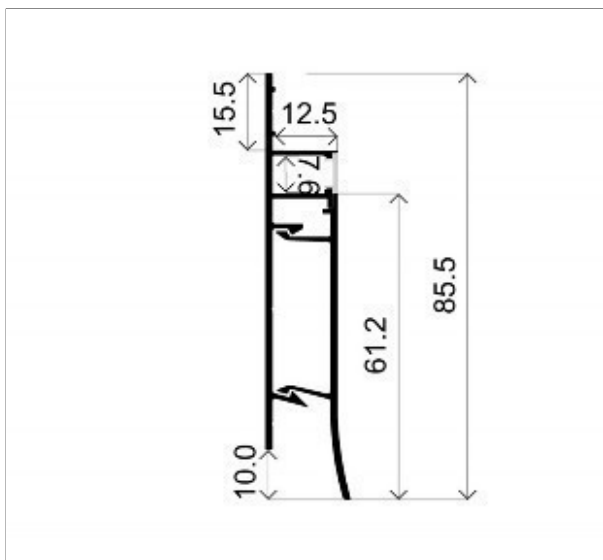
## Luminaire Property

Luminaire Manufacturer: Lighting Line  
 Luminaire Description: LLP-BB02-02 + LLD-02-FM  
 Lamp Description: Strip 9,6W/m 120led/m Number of Lamps: 1  
 Lumens per Lamp: 1000 lm Voltage: 24.0 V  
 Current: 0.372 A Power: 8.92 W  
 Power Factor: 1.000

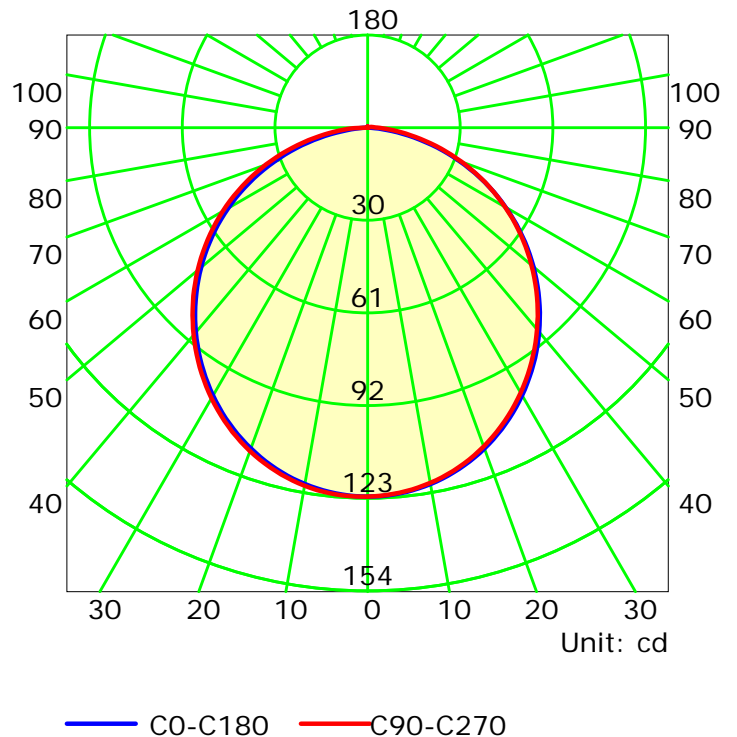
## Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 1000.0 lm
Measurement Flux: 353 lm	Efficiency: 35.30%
Downward Ratio: 35.12%	Upward Ratio: 0.18%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.0, 163.7, 162.1, 162.1	
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.7, 112.4, 112.2, 112.3	
Luminaire Efficacy Rating (LER): 39.62	Central Intensity: 123.09 cd
Max. Intensity: 123.17 cd	Pos of Max. Intensity: H260 V1
S/MH(C0/C180): 1.25	S/MH(C90/C270): 1.25

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

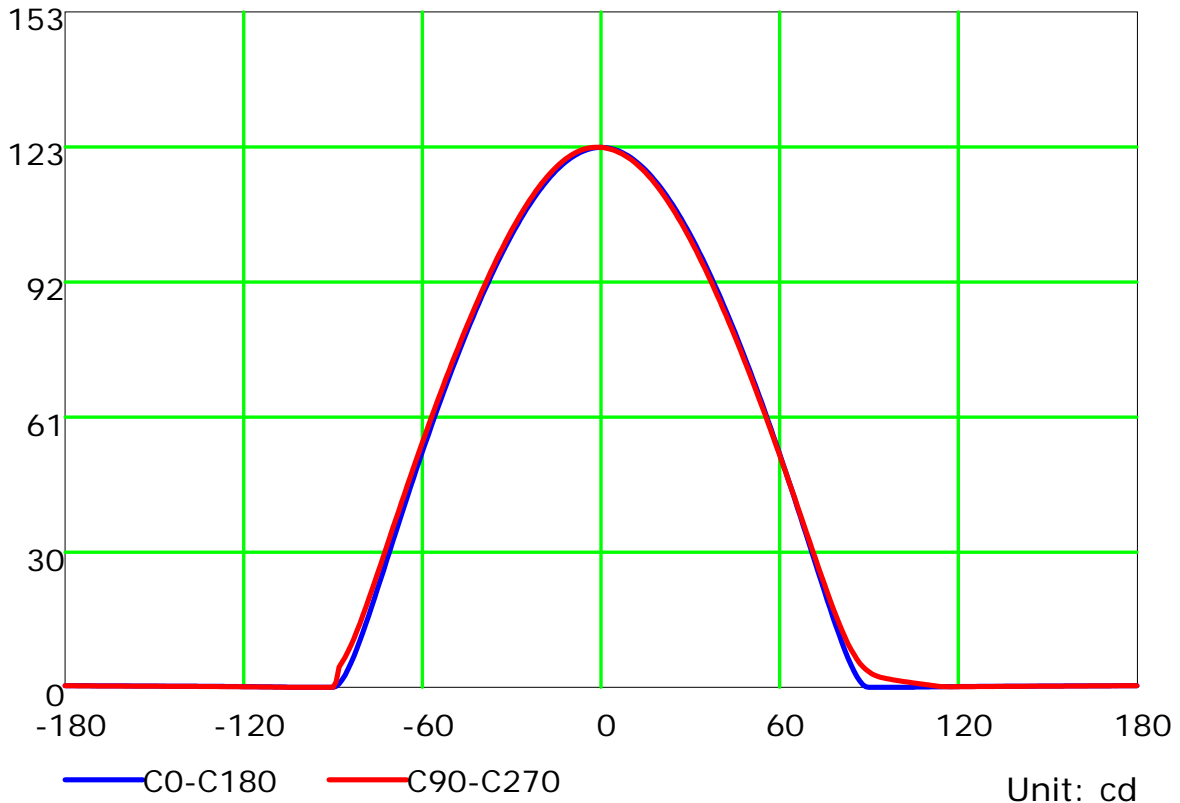
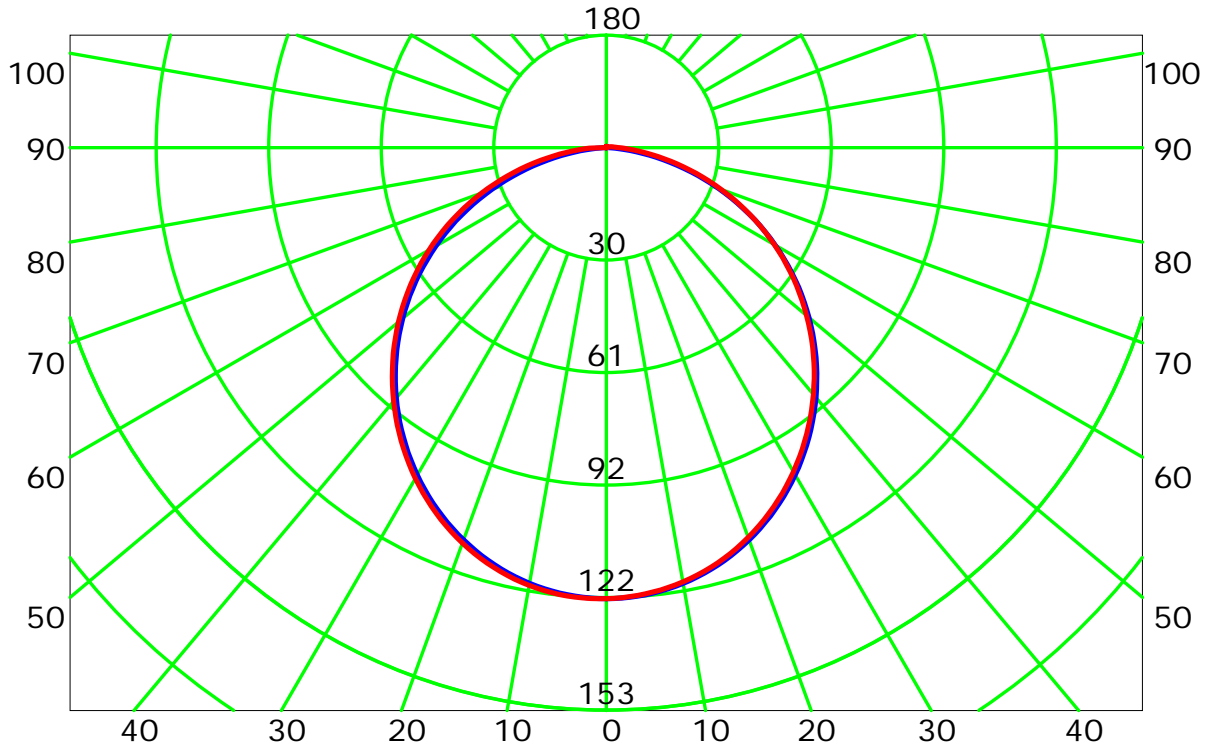
Distance: 7.970 m

Humidity:

Inspector:



## Luminous Intensity Distribution Curve

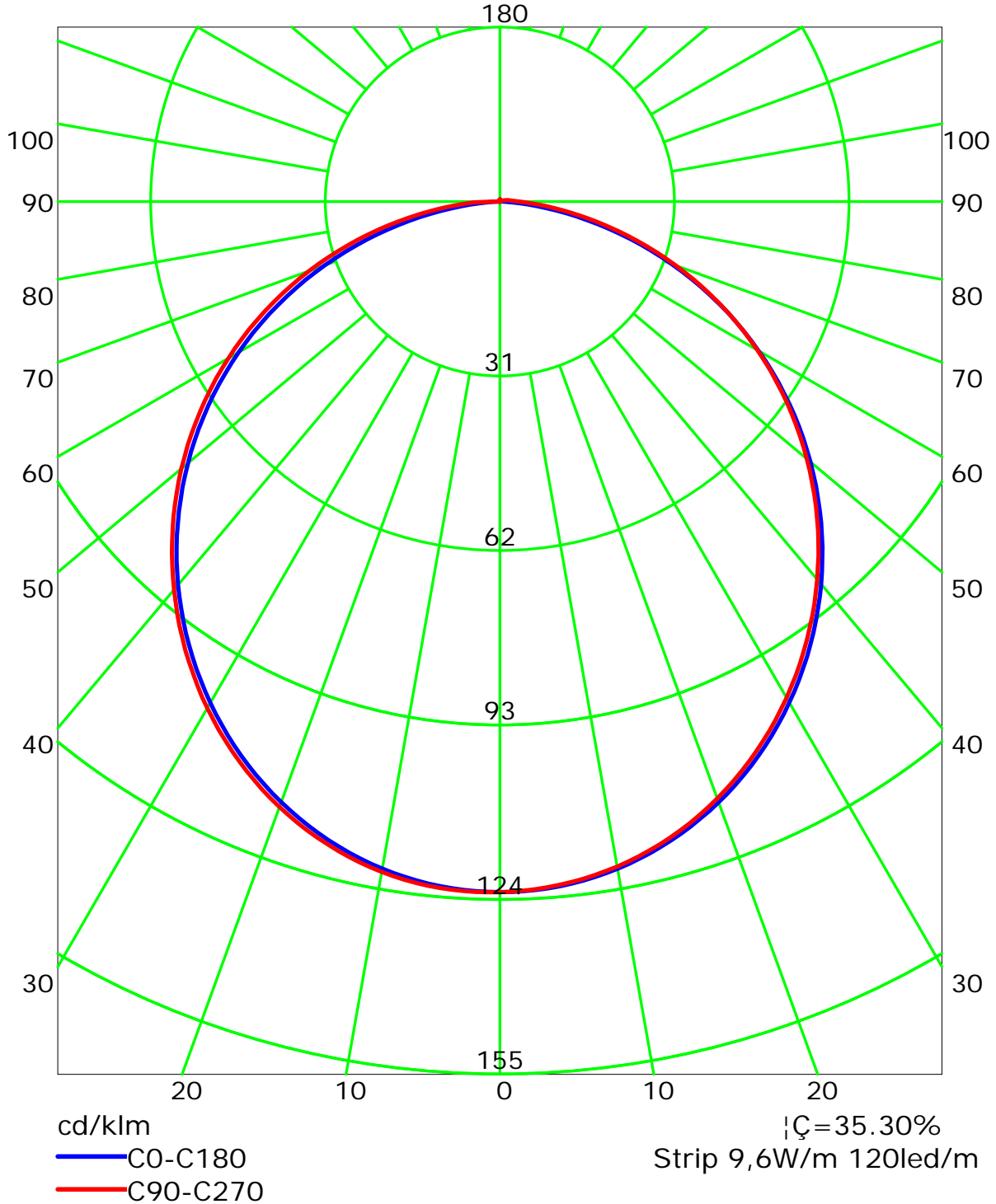


C Plane (°):0.0-360.0: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-2000  
Distance: 7.970 m  
Humidity:  
Inspector:



## Luminous Intensity Distribution Curve(cd/klm)

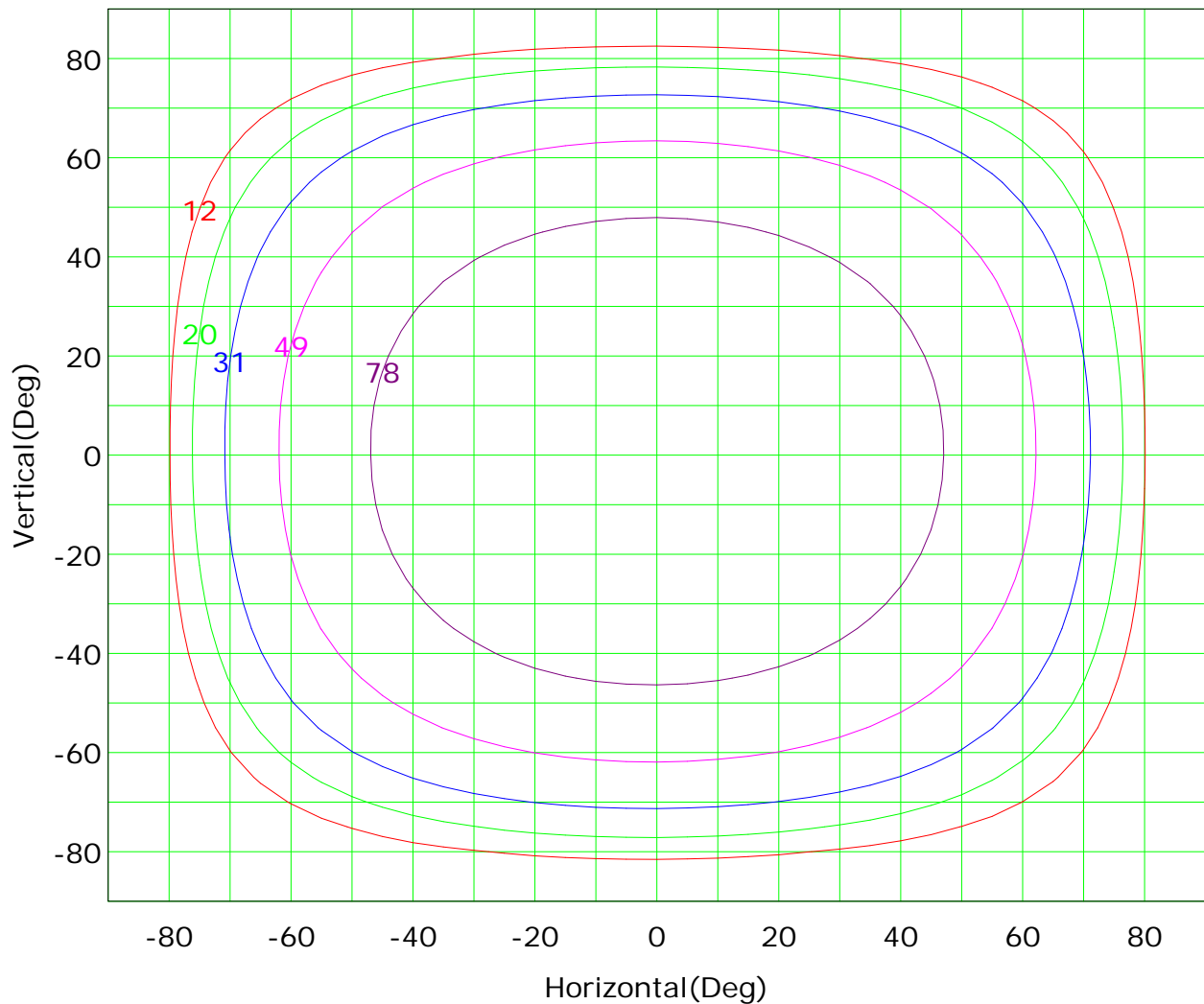


C Plane (°):0.0-360.0: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-2000  
Distance: 7.970 m  
Humidity:  
Inspector:



## Isocandela (rectangle)



Imax (100%): 123 cd

— ( 10%):	12 cd	— ( 16%):	20 cd
— ( 25%):	31 cd	— ( 40%):	49 cd
— ( 63%):	78 cd	— (100%):	123 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

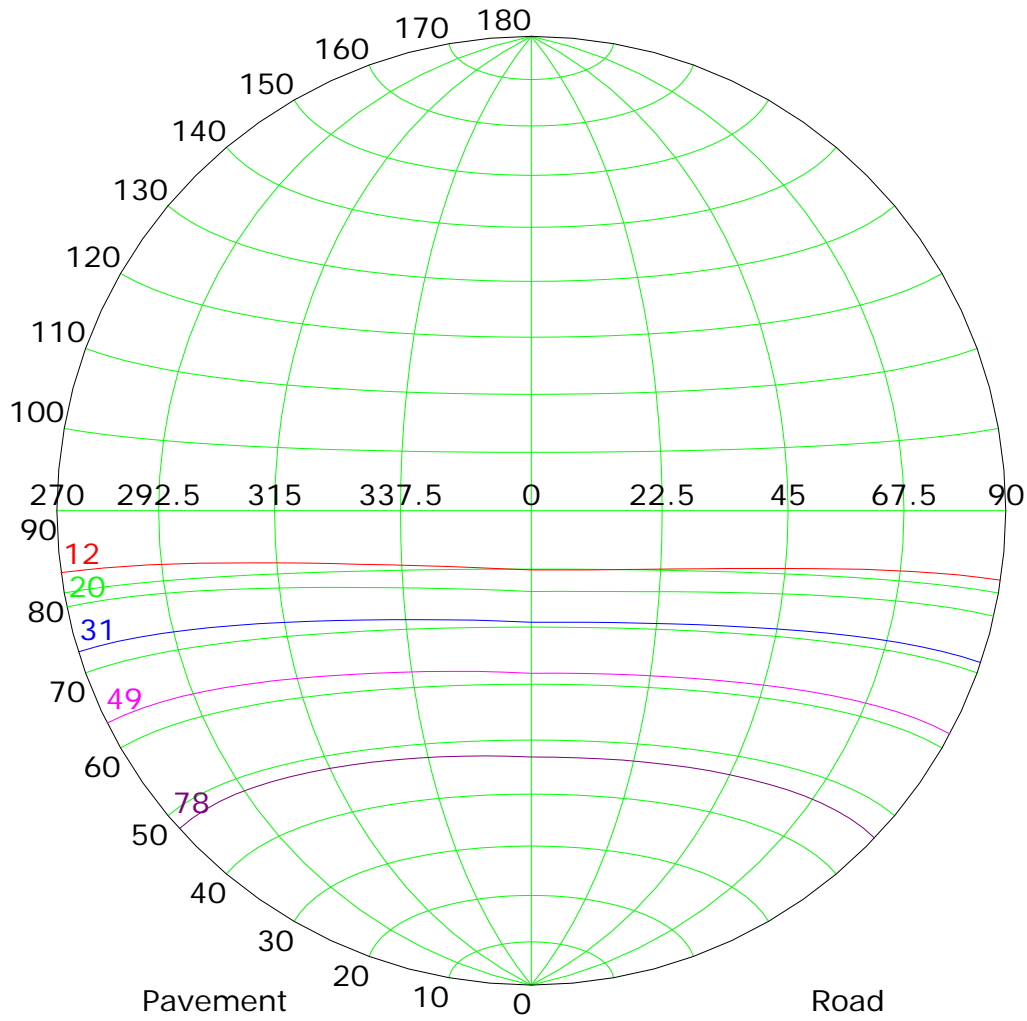
Distance: 7.970 m

Humidity:

Inspector:



## Isocandela (sphere)



Imax (100%): 123 cd

— ( 10%):	12 cd	— ( 16%):	20 cd
— ( 25%):	31 cd	— ( 40%):	49 cd
— ( 63%):	78 cd	— (100%):	123 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

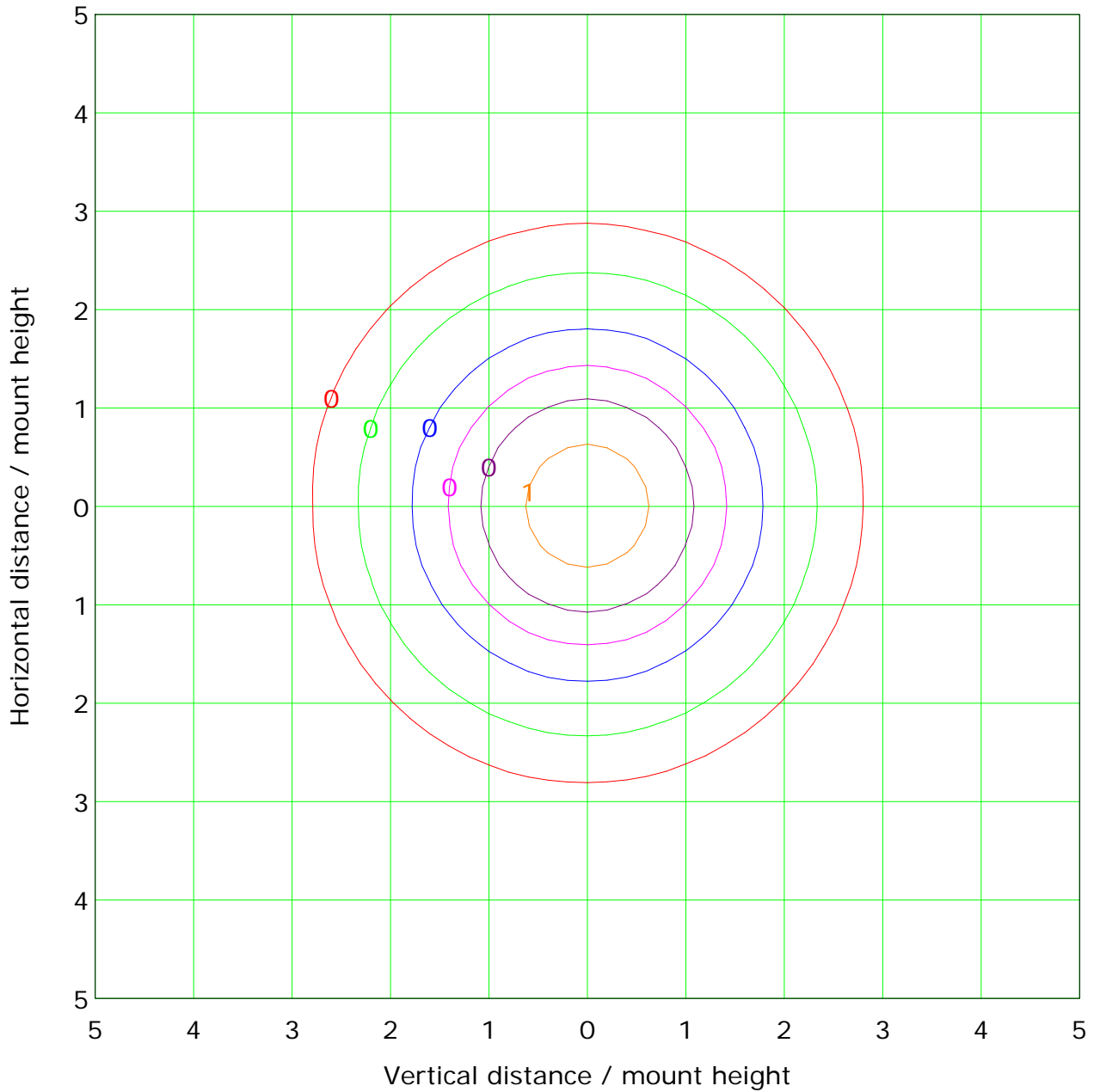
Distance: 7.970 m

Humidity:

Inspector:



## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 1.2 lx	
— ( 1%):	0.0 lx	— ( 2%):	0.0 lx
— ( 5%):	0.1 lx	— (10%):	0.1 lx
— (20%):	0.2 lx	— (50%):	0.6 lx
— (100%):	1.2 lx		

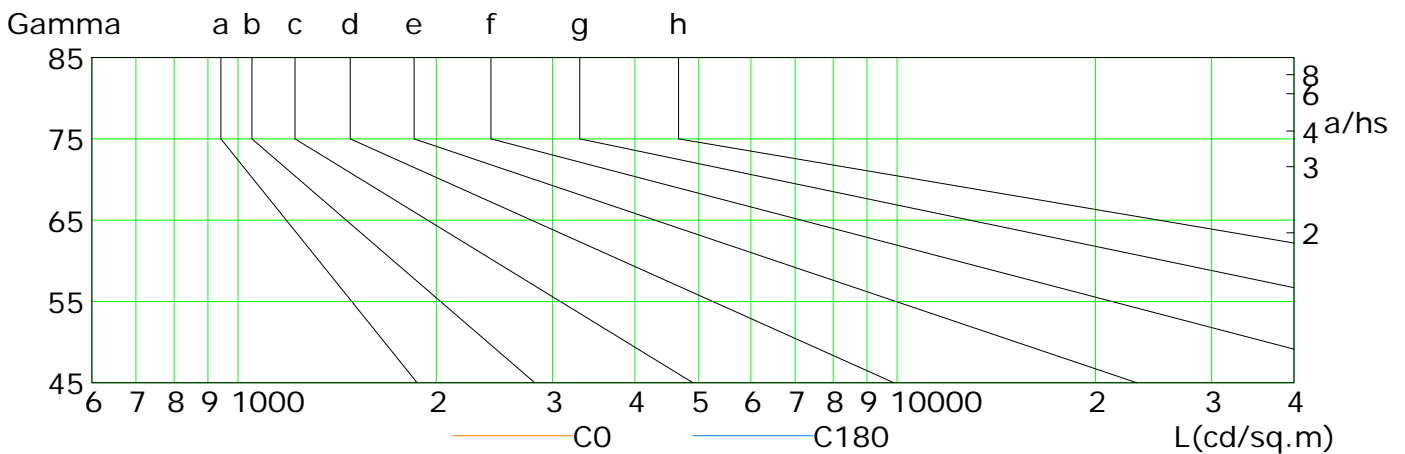
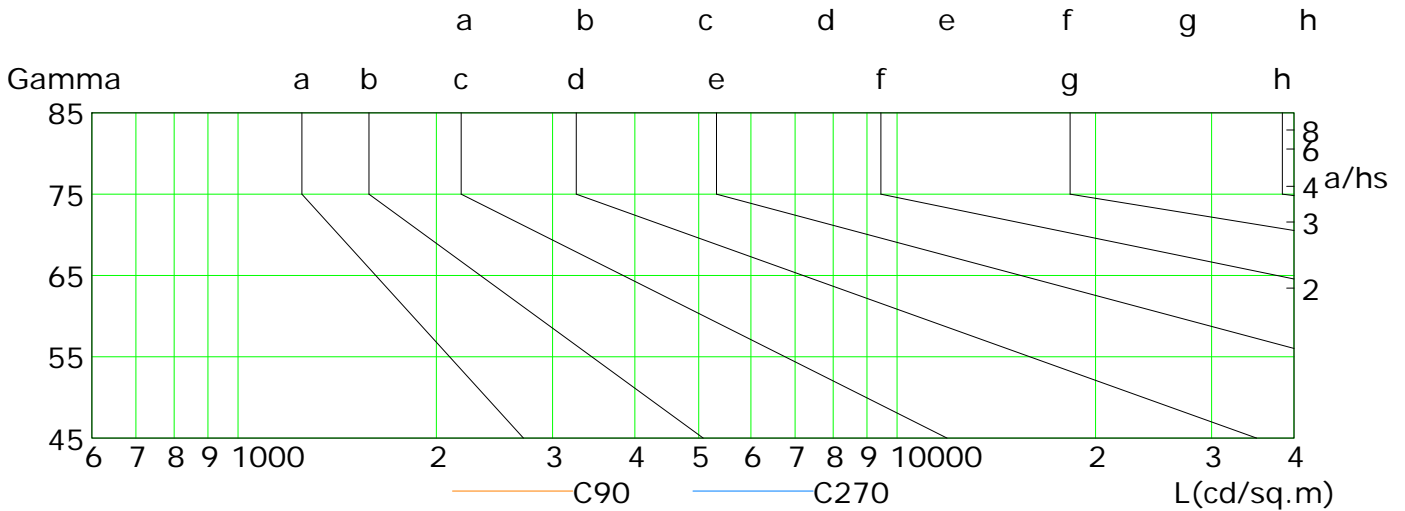
C Plane (°):0.0-360.0: 10.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-2000  
 Distance: 7.970 m  
 Humidity:  
 Inspector:



## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		a	b	c	d	e	f	g	h
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	81	72	63	53	43	33	22	12	4
C90	80	71	62	53	43	33	24	15	7
C180	81	73	63	54	44	33	23	13	4
C270	82	74	65	56	46	36	26	16	8

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

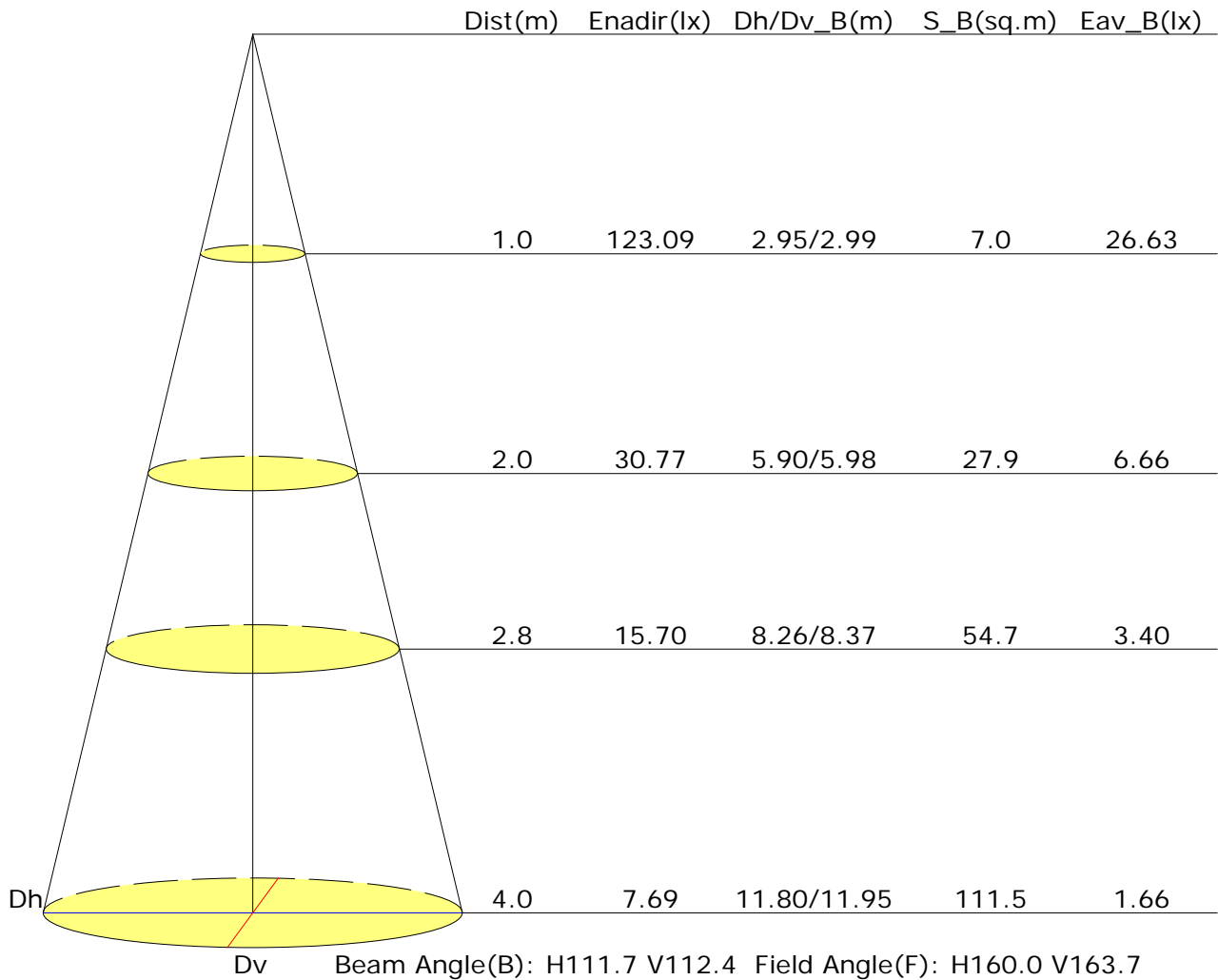
Distance: 7.970 m

Humidity:

Inspector:



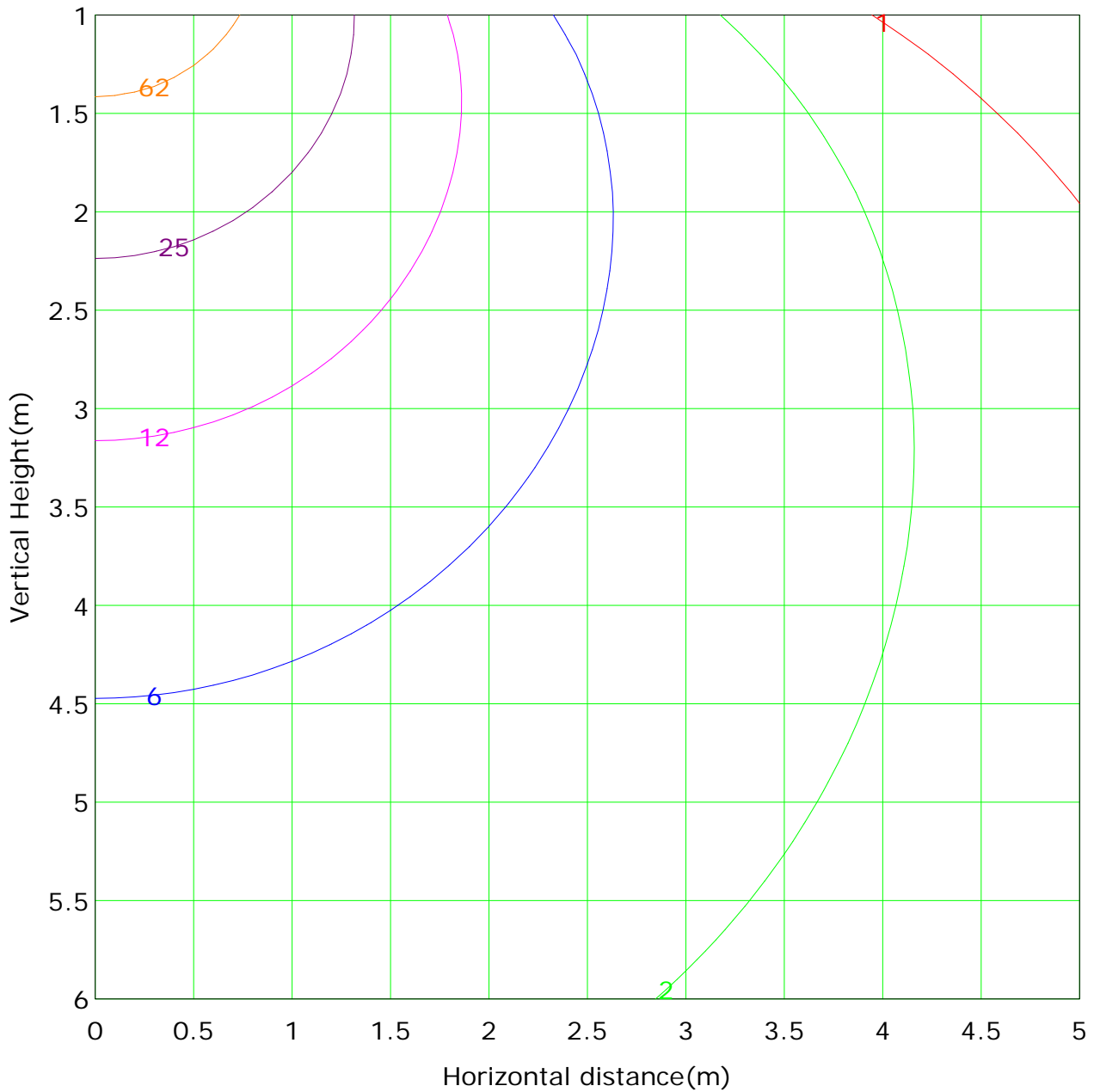
## Illuminance at a Distance







## Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 6.0m	Max Lux: 123.1 lx
( 1%): 1.2 lx	( 2%): 2.5 lx	
( 5%): 6.2 lx	( 10%): 12.3 lx	
( 20%): 24.6 lx	( 50%): 61.5 lx	
(100%): 123.1 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:



Report No.:

Test Time: 04/10/2018 14:30

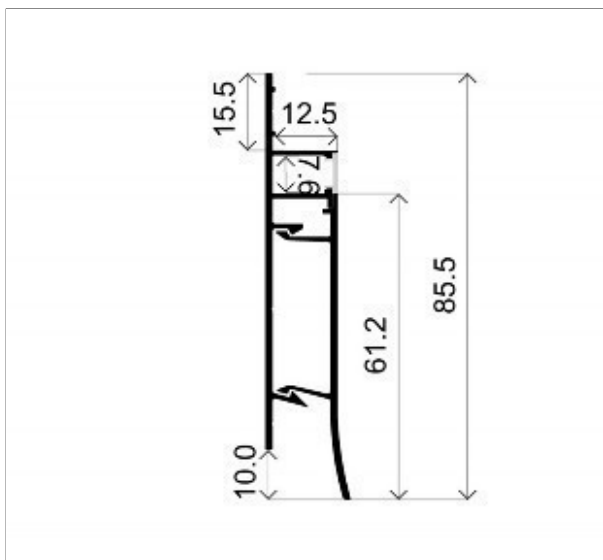
## Luminaire Property

Luminaire Manufacturer: Lighting Line  
 Luminaire Description: LLP-BB02-02 + LLD-02-FS  
 Lamp Description: Strip 9,6W/m 120led/m Number of Lamps: 1  
 Lumens per Lamp: 1000 lm Voltage: 24.0 V  
 Current: 0.372 A Power: 8.92 W  
 Power Factor: 1.000

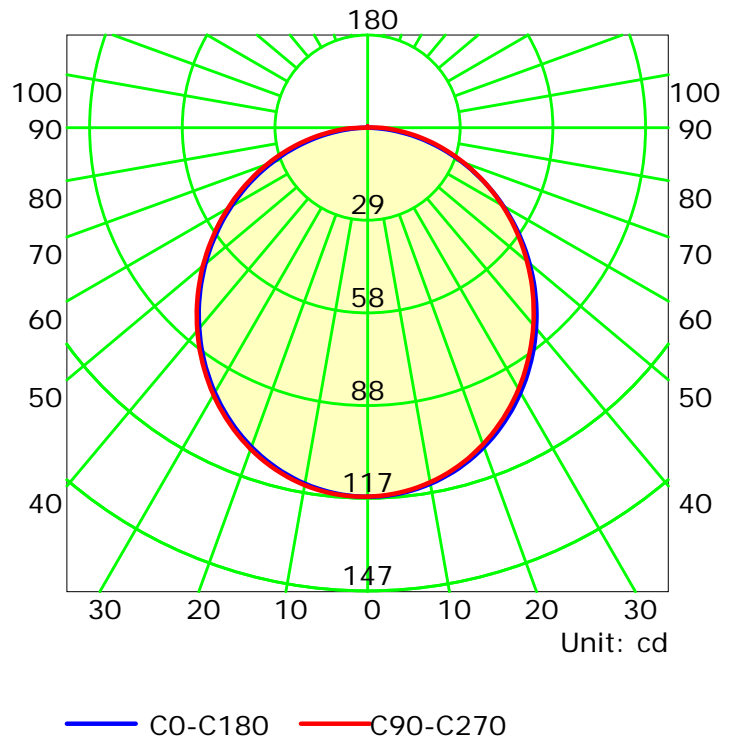
## Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 1000.0 lm
Measurement Flux: 334.8 lm	Efficiency: 33.48%
Downward Ratio: 33.35%	Upward Ratio: 0.13%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.4, 166.5, 165.2, 165.1	
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.0, 110.3, 110.4, 110.5	
Luminaire Efficacy Rating (LER): 37.58	Central Intensity: 117.39 cd
Max. Intensity: 117.42 cd	Pos of Max. Intensity: H280 V1
S/MH(C0/C180): 1.23	S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve

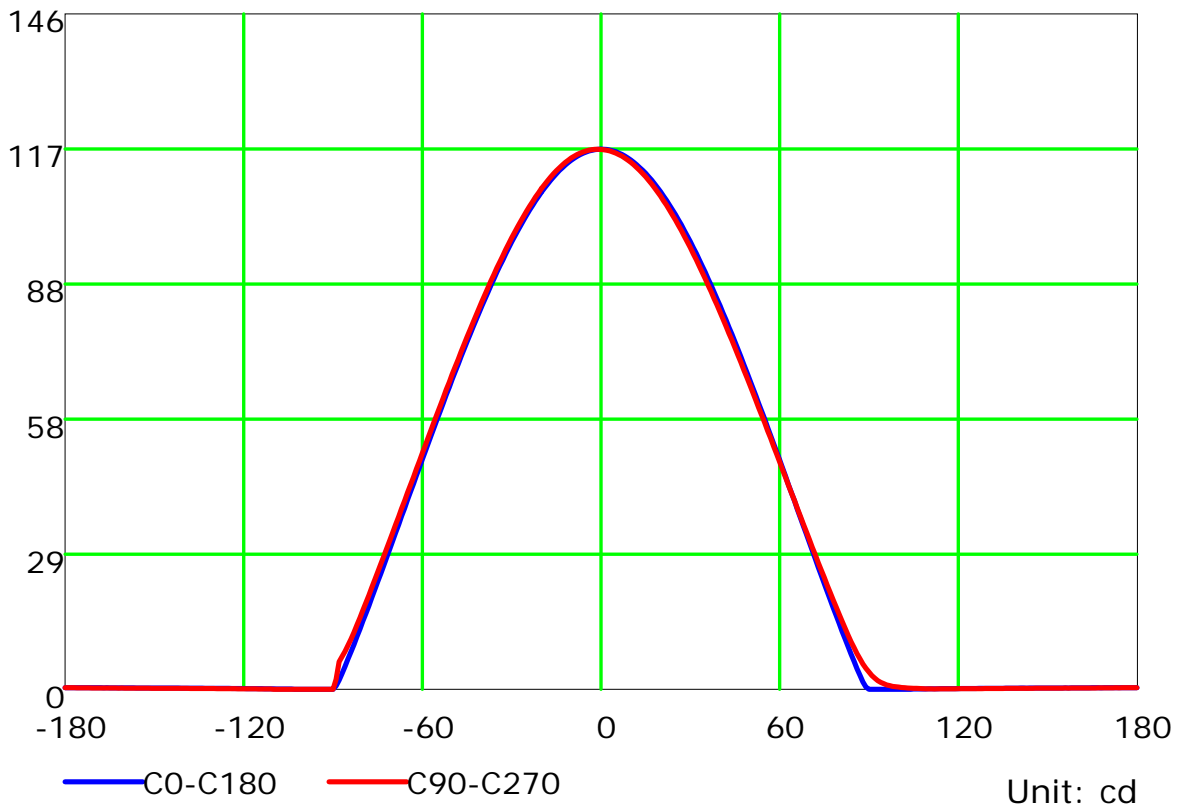
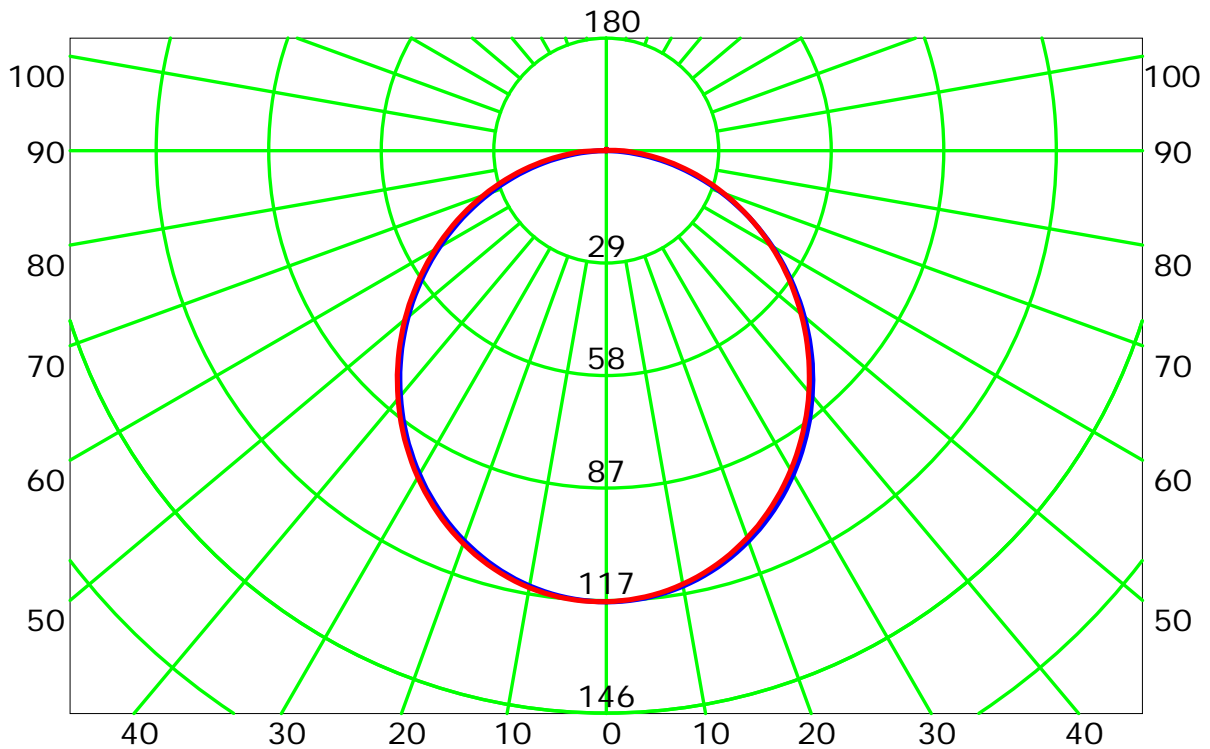


C Plane (°):0.0-360.0: 10.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-2000  
 Distance: 7.970 m  
 Humidity:  
 Inspector:



## Luminous Intensity Distribution Curve

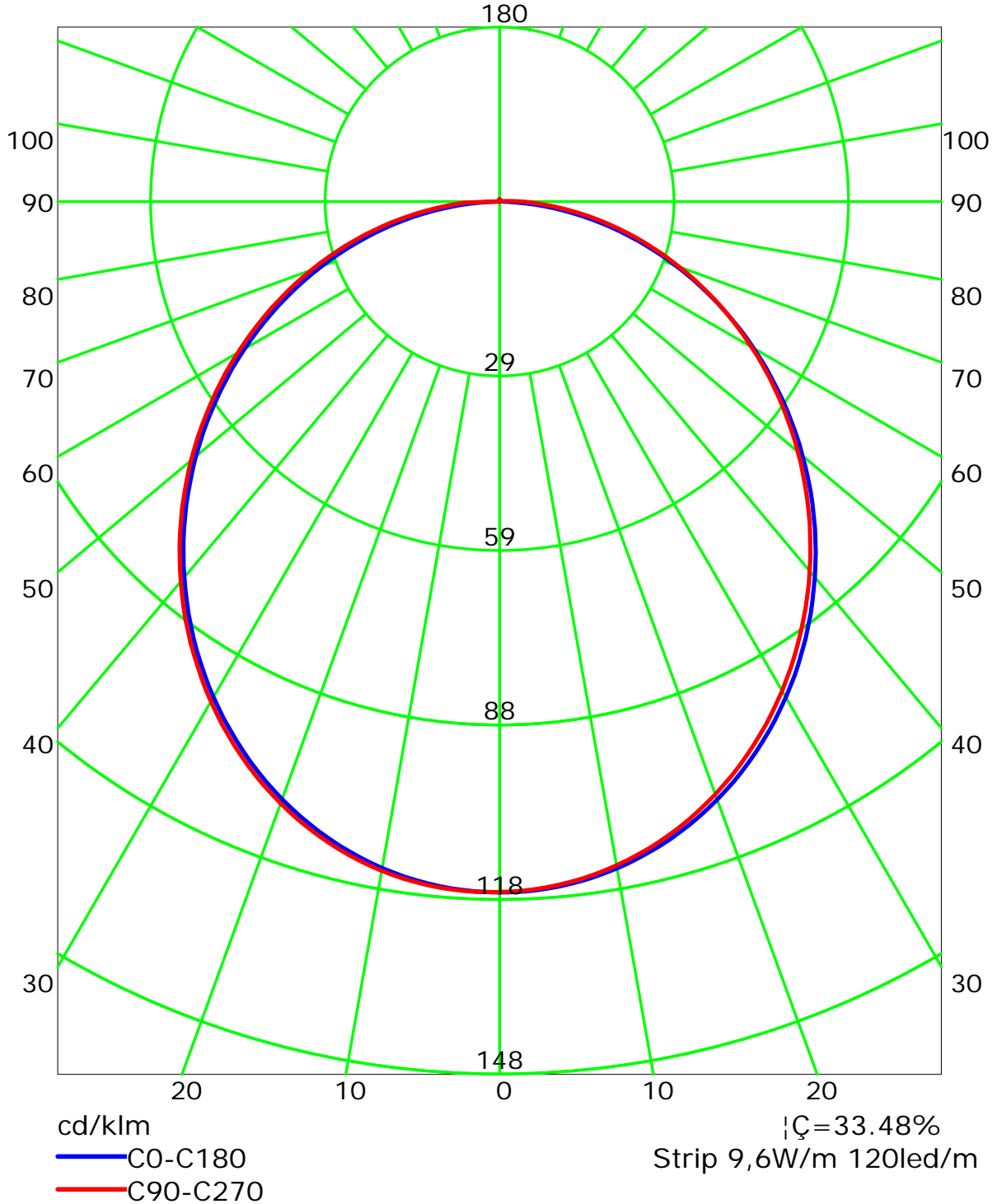


C Plane (°):0.0-360.0: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-2000  
Distance: 7.970 m  
Humidity:  
Inspector:



## Luminous Intensity Distribution Curve(cd/klm)

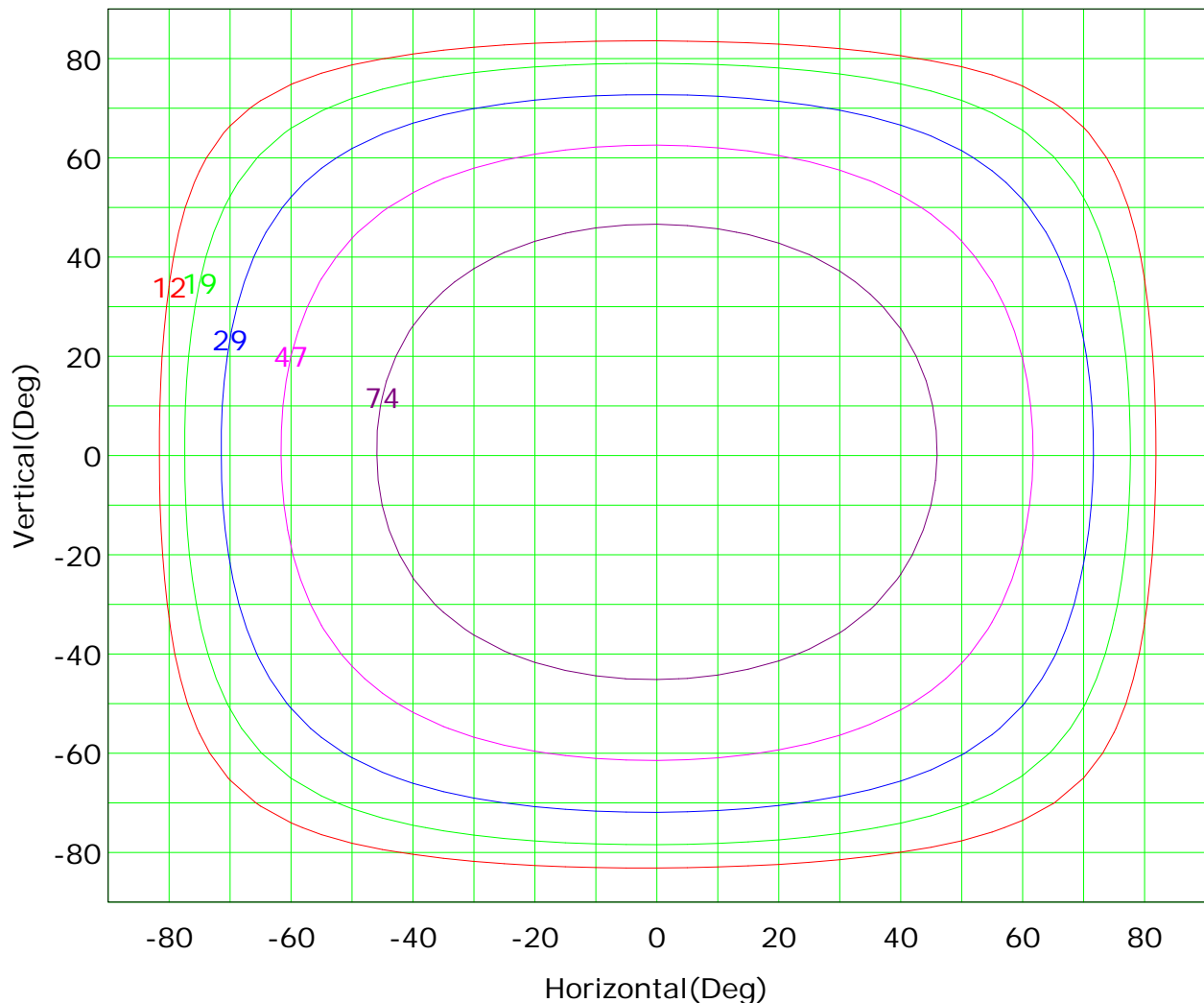


C Plane (°):0.0-360.0: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-2000  
Distance: 7.970 m  
Humidity:  
Inspector:



## Isocandela (rectangle)



Imax (100%): 117 cd

— ( 10%):	12 cd	— ( 16%):	19 cd
— ( 25%):	29 cd	— ( 40%):	47 cd
— ( 63%):	74 cd	— (100%):	117 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

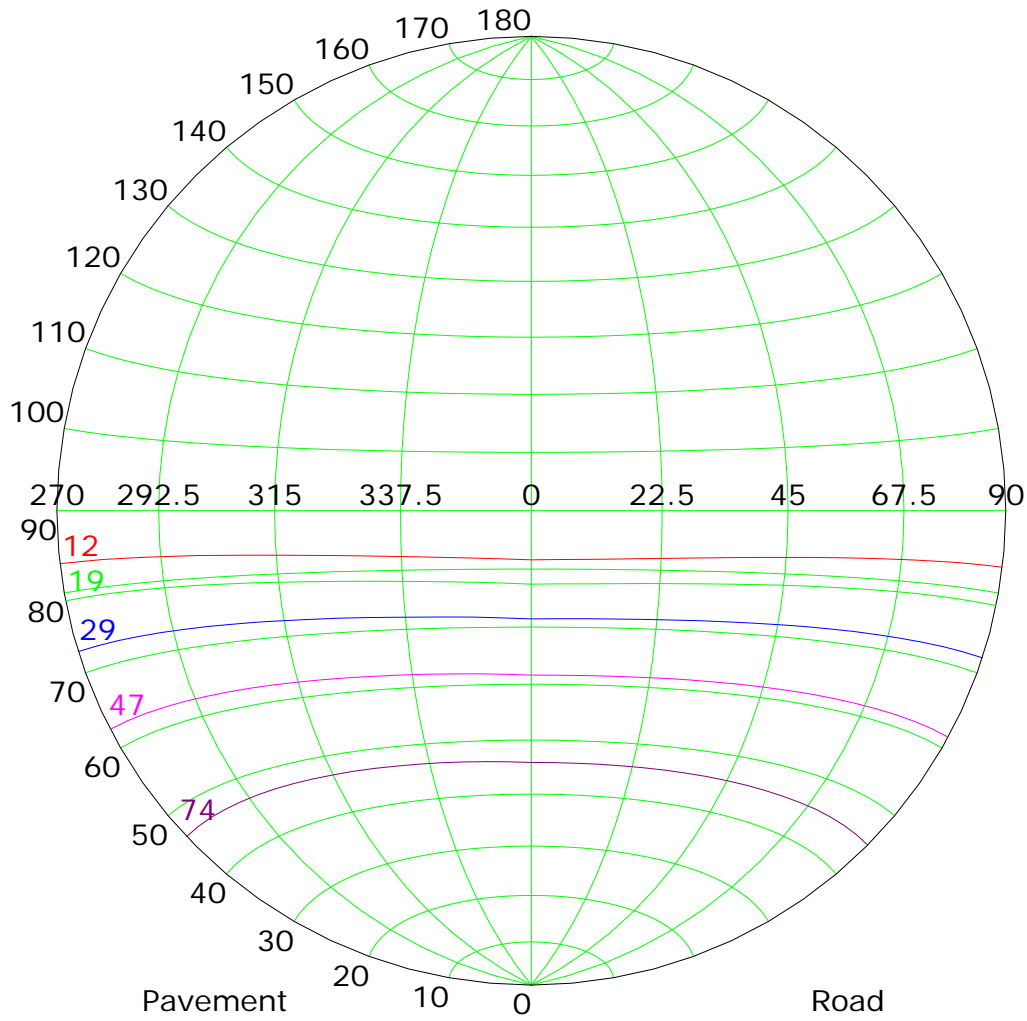
Distance: 7.970 m

Humidity:

Inspector:



## Isocandela (sphere)



Imax (100%): 117 cd

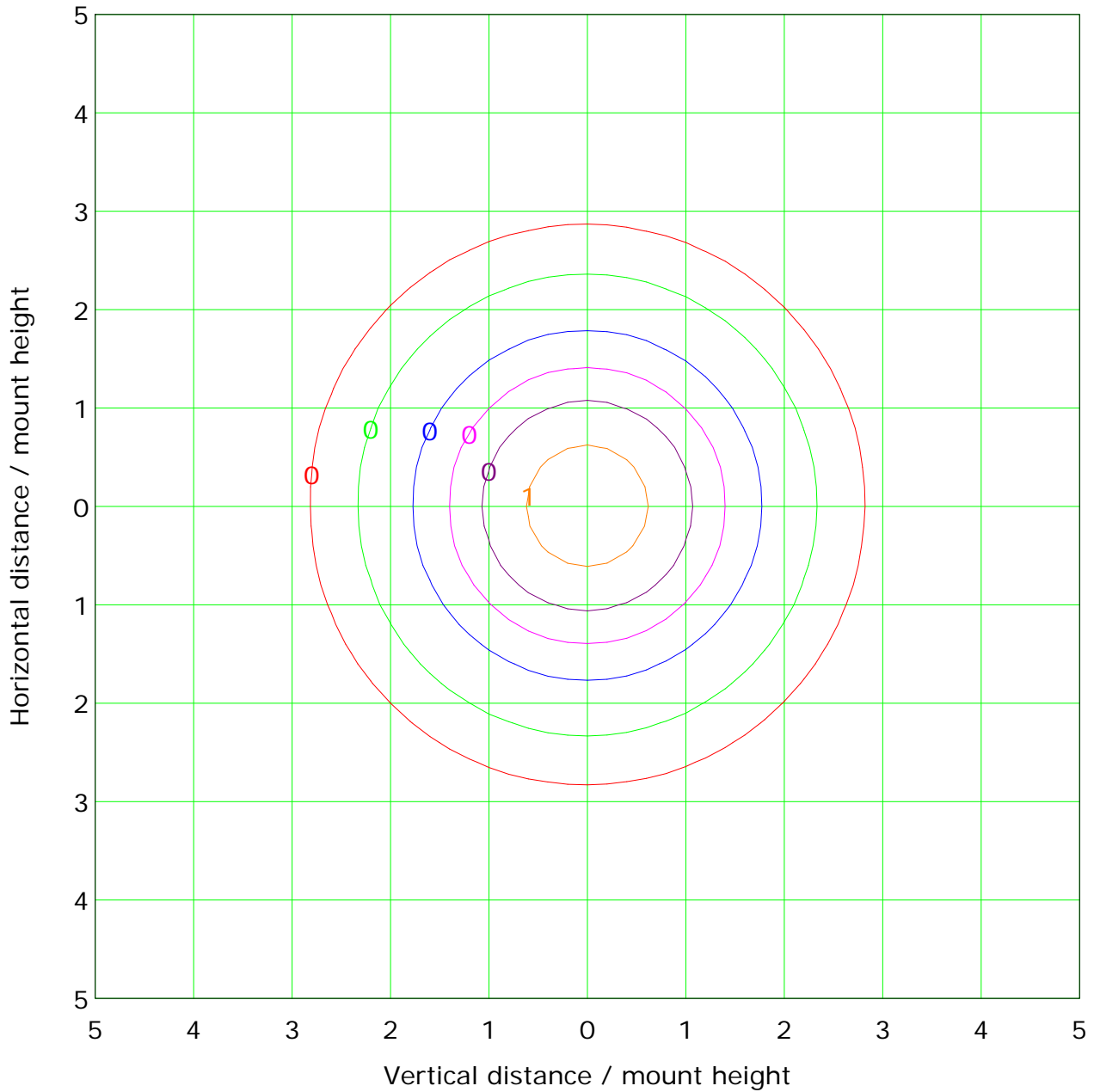
— ( 10%):	12 cd	— ( 16%):	19 cd
— ( 25%):	29 cd	— ( 40%):	47 cd
— ( 63%):	74 cd	— (100%):	117 cd

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%): 1.2 lx

— ( 1%): 0.0 lx	— ( 2%): 0.0 lx
— ( 5%): 0.1 lx	— (10%): 0.1 lx
— (20%): 0.2 lx	— (50%): 0.6 lx
— (100%): 1.2 lx	

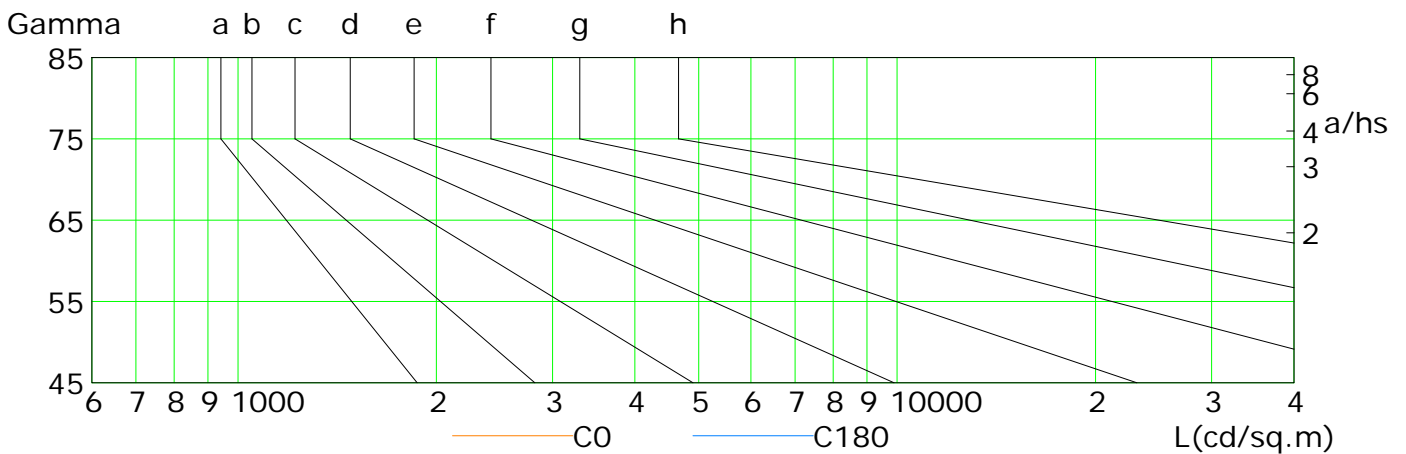
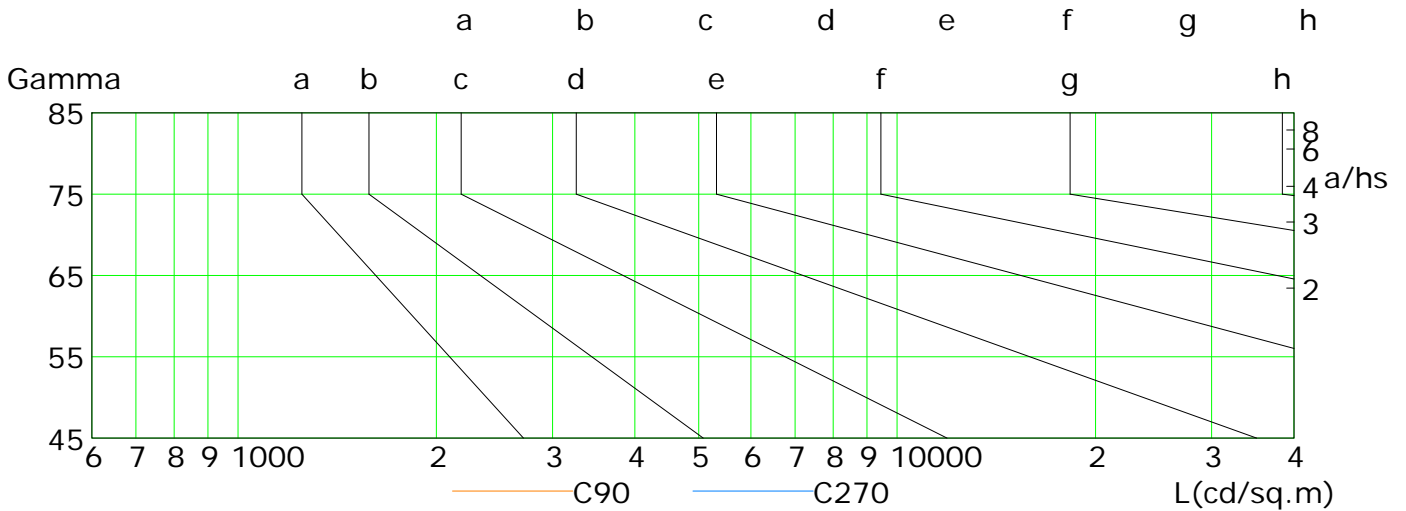
C Plane (°):0.0-360.0: 10.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-2000  
 Distance: 7.970 m  
 Humidity:  
 Inspector:



## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		a	b	c	d	e	f	g	h
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	75	67	59	50	41	32	23	14	6
C90	74	66	58	49	41	33	24	16	9
C180	76	67	59	50	41	32	23	15	7
C270	77	68	60	51	43	34	25	17	10

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

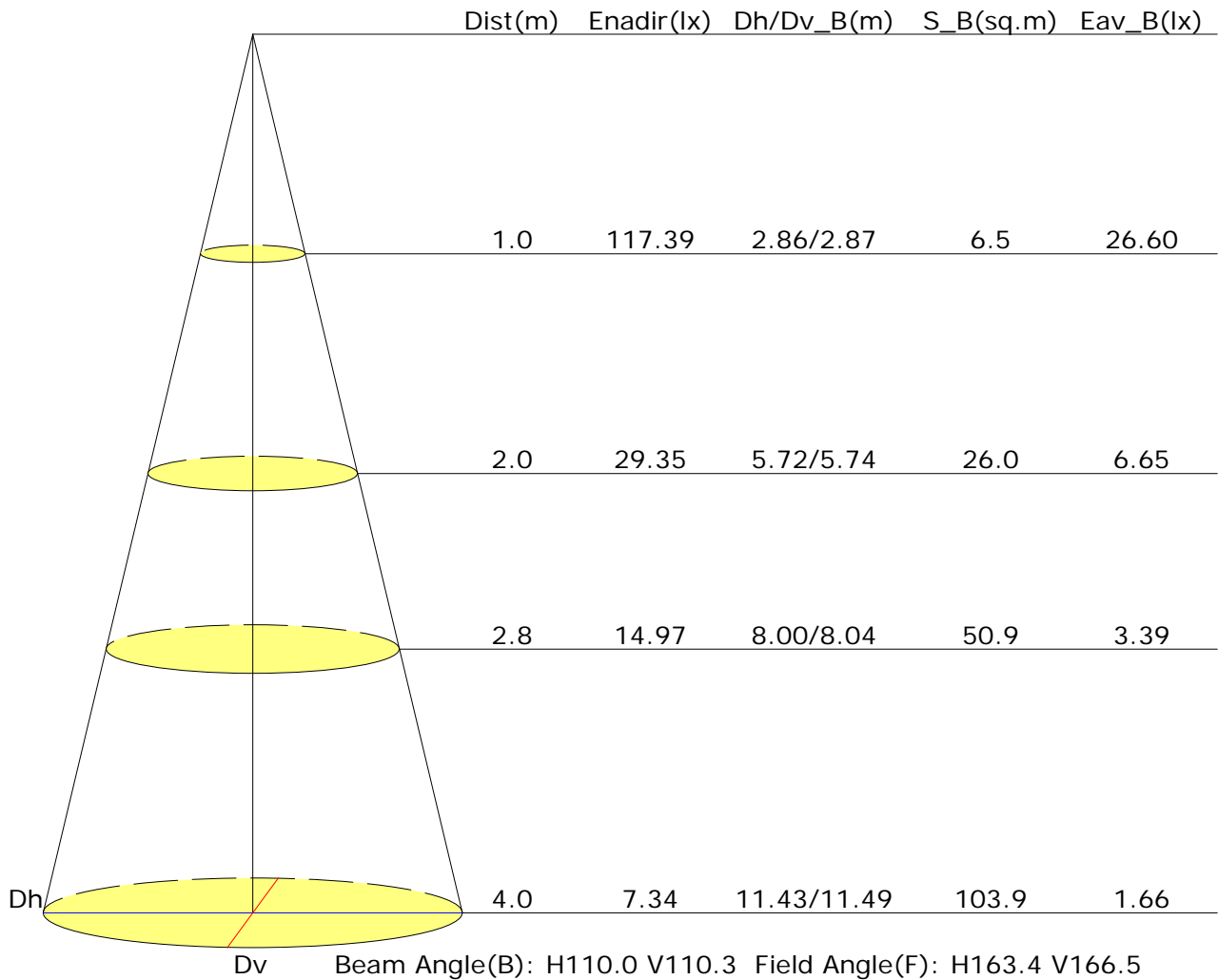
Humidity:

Inspector:



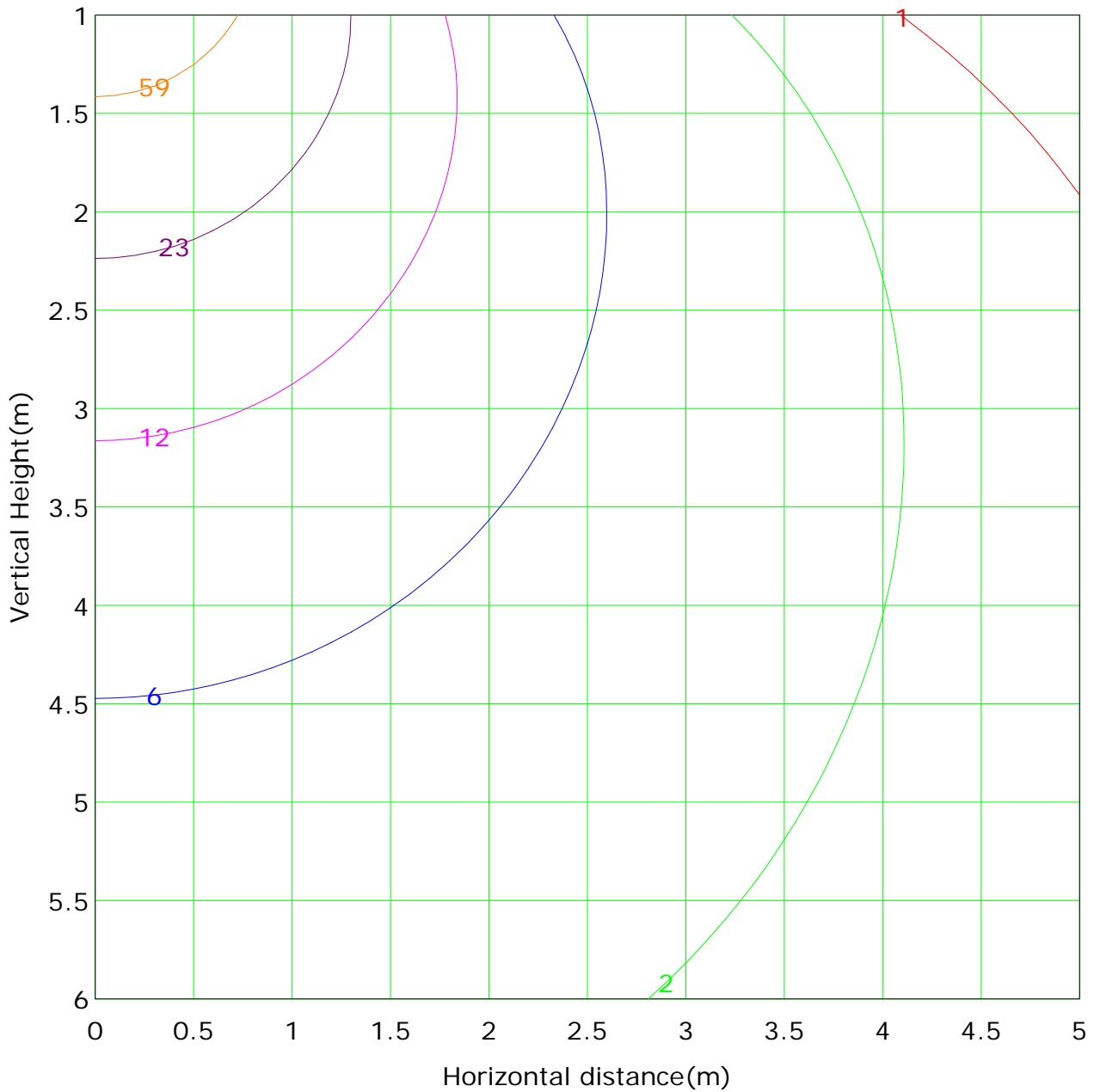


## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 6.0m	Max Lux: 117.4 lx
— ( 1%): 1.2 lx	— ( 2%): 2.3 lx	
— ( 5%): 5.9 lx	— (10%): 11.7 lx	
— (20%): 23.5 lx	— (50%): 58.7 lx	
— (100%): 117.4 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: