



Report No.:

Test Time: 03/09/2018 12:56

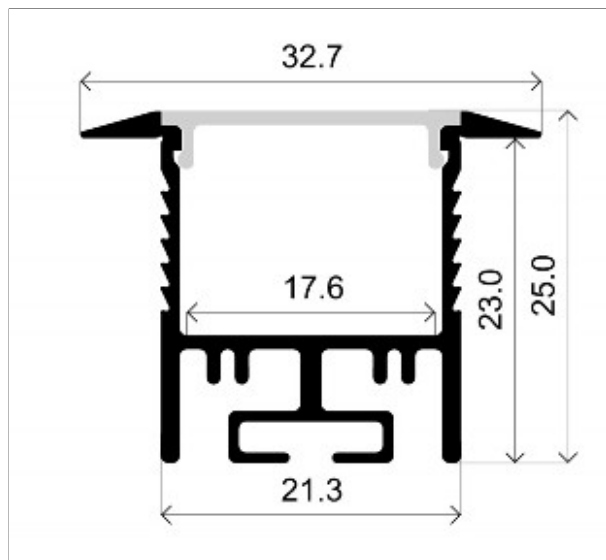
## Luminaire Property

Luminaire Manufacturer: Lighting Line  
 Luminaire Description: LLP-RE06-01 + LLD-01-FM  
 Lamp Description: Strip 14,4W/m 60led/m 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

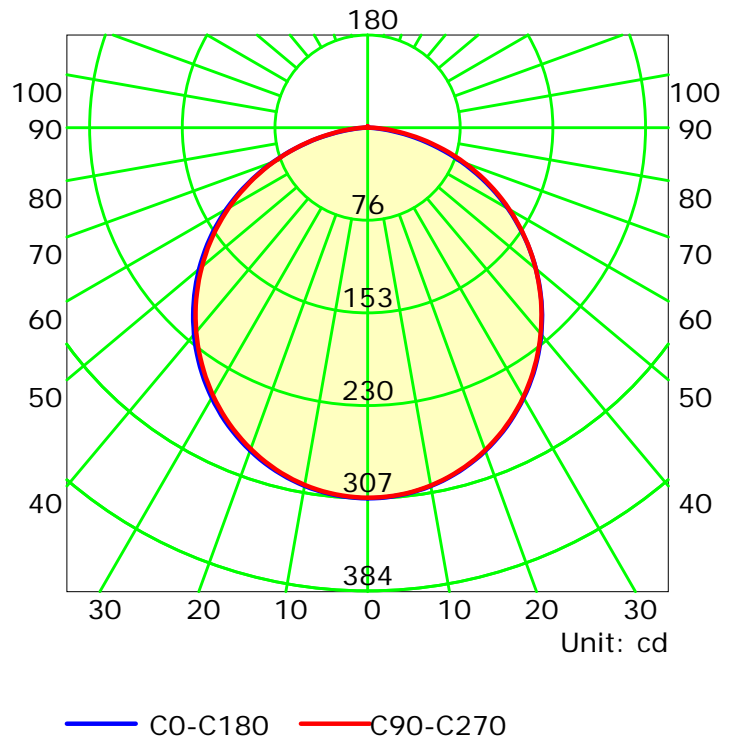
## Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 1579.0 lm
Measurement Flux: 876.2 lm	Efficiency: 55.49%
Downward Ratio: 55.21%	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

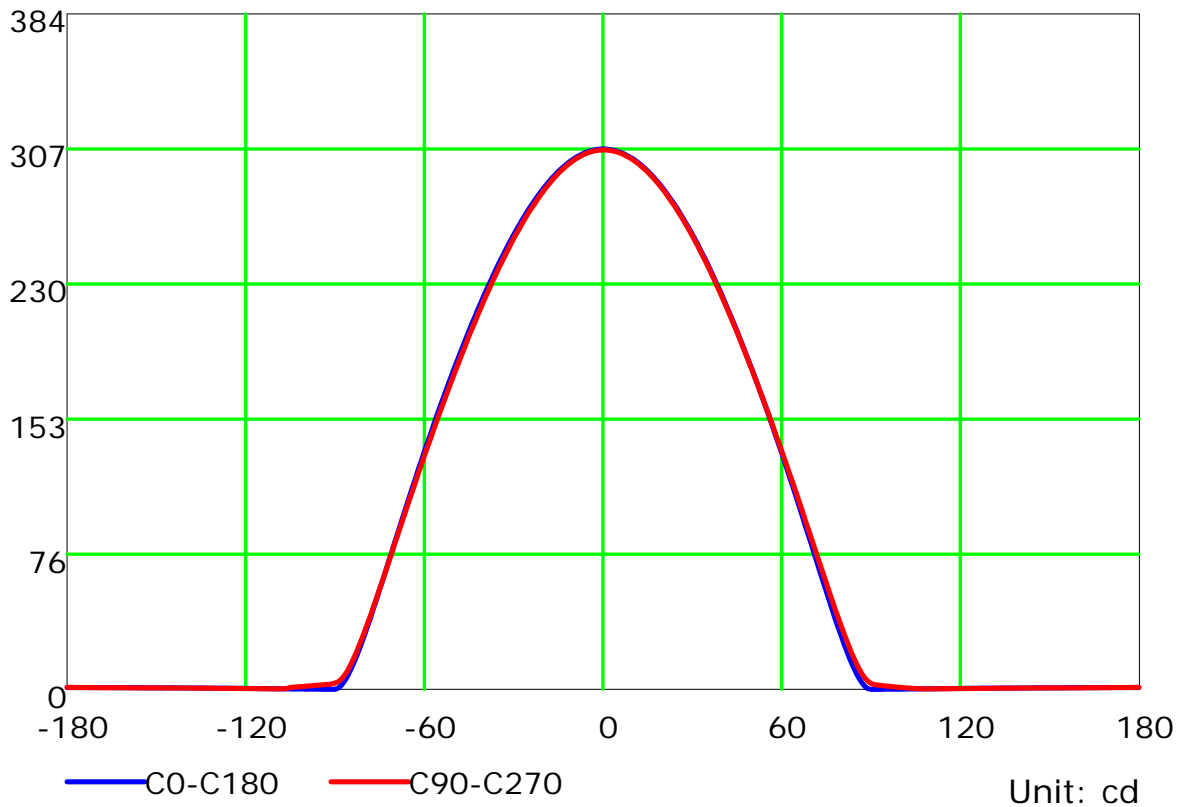
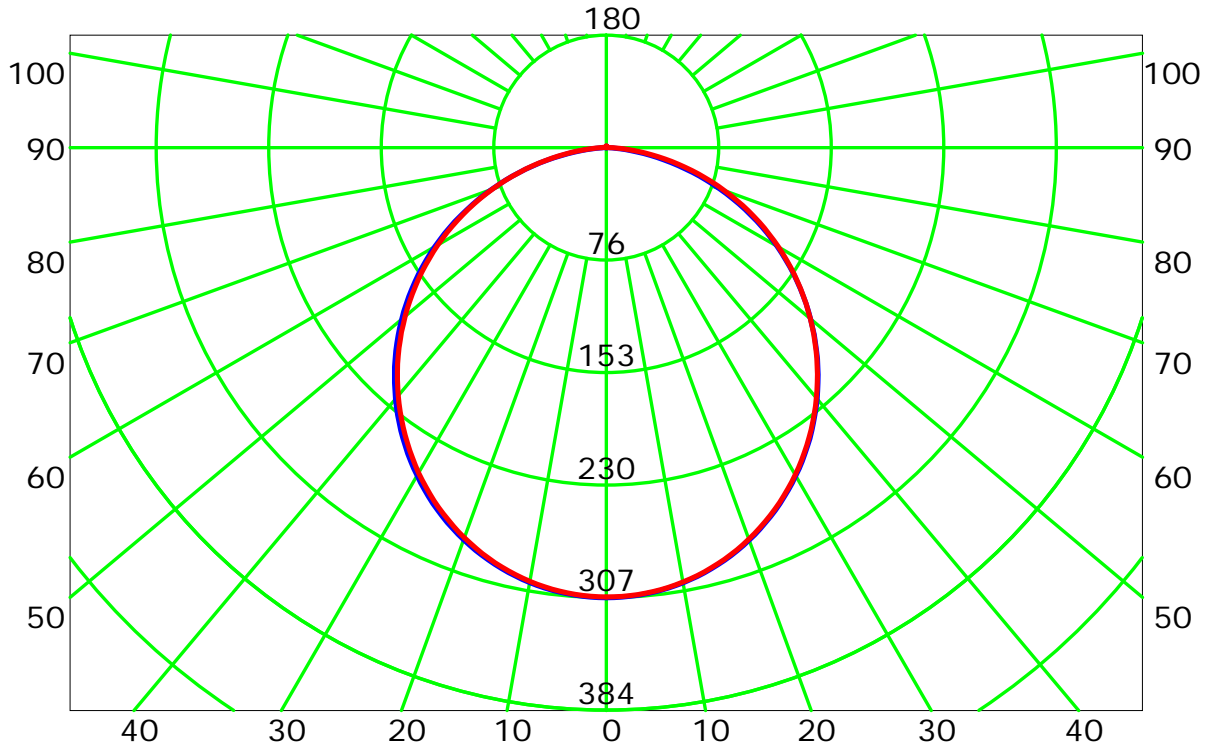


C Plane (°):0.0-360.0: 10.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

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



## Luminous Intensity Distribution Curve

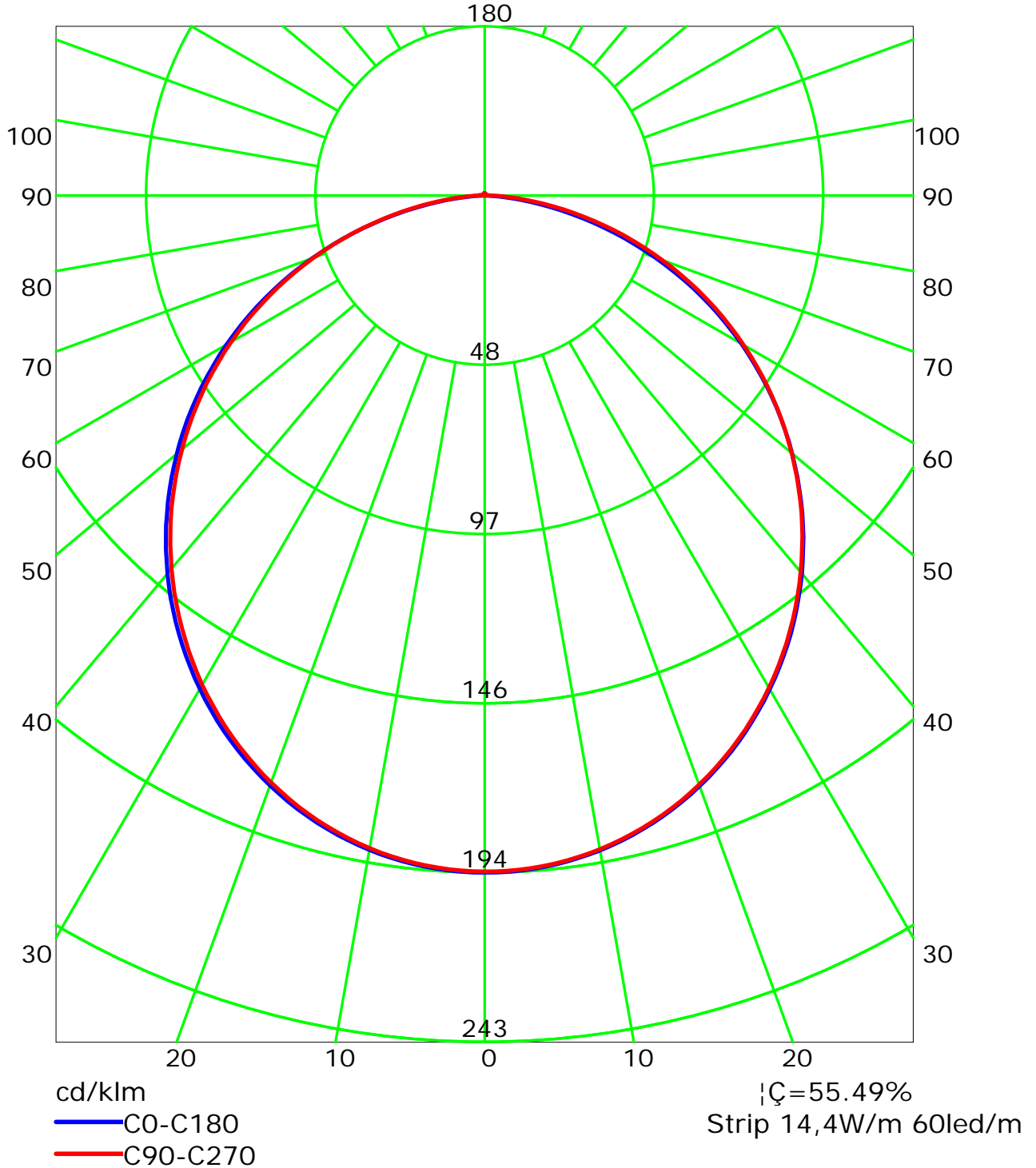


C Plane (°):0.0-360.0: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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



## Luminous Intensity Distribution Curve(cd/klm)

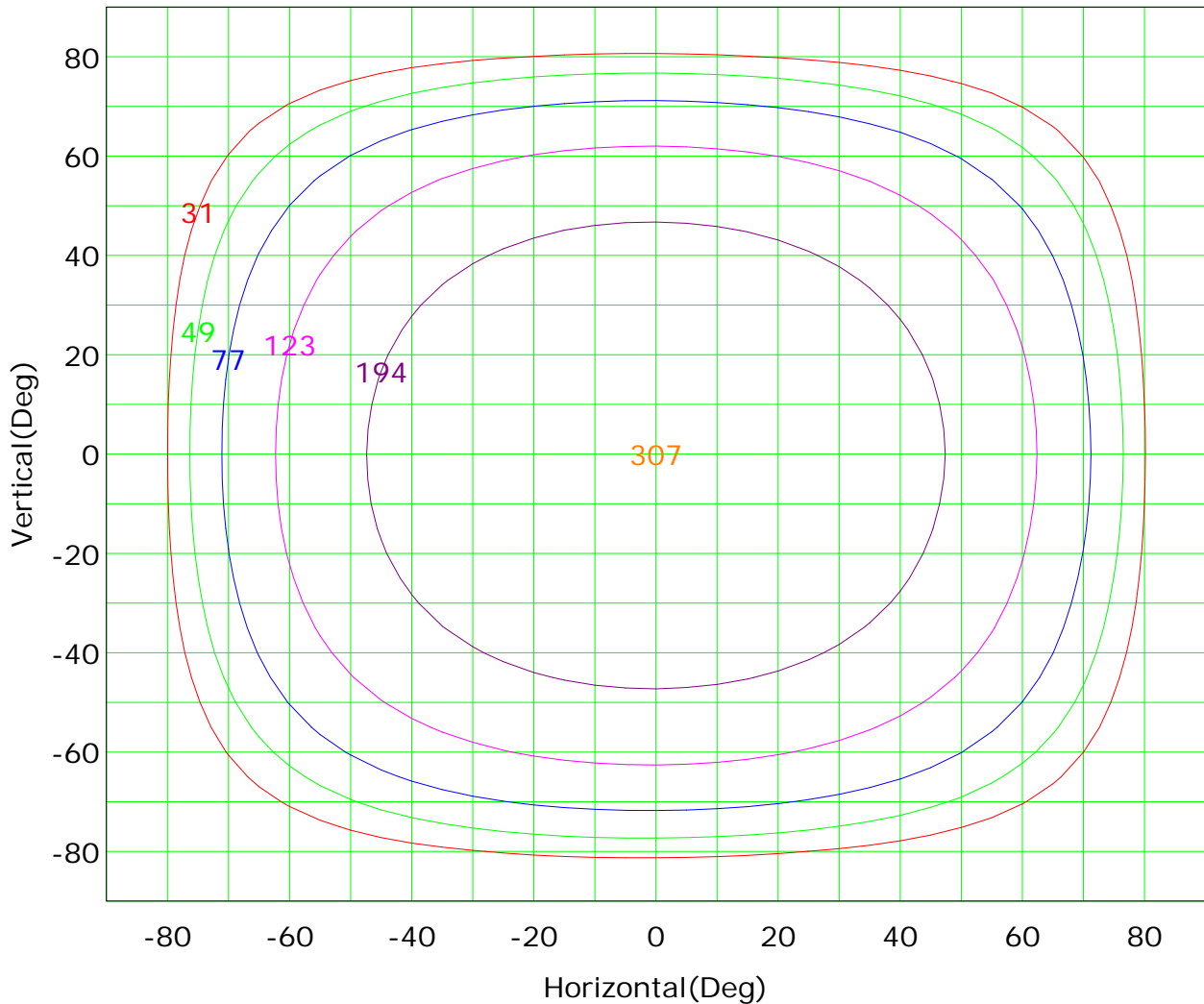


C Plane (°):0.0-360.0: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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



## Isocandela (rectangle)



Imax (100%): 307 cd

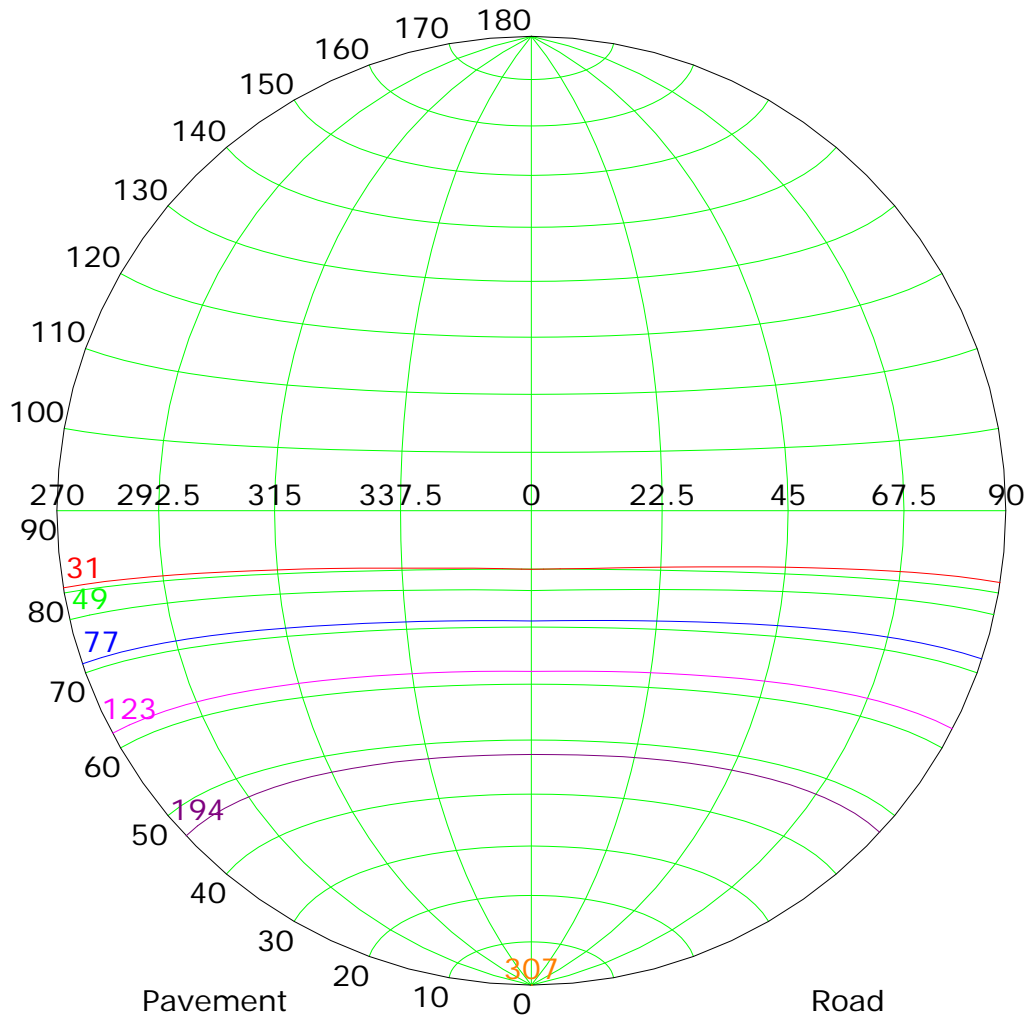
— ( 10%):	31 cd	— ( 16%):	49 cd
— ( 25%):	77 cd	— ( 40%):	123 cd
— ( 63%):	194 cd	— (100%):	307 cd

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)



Imax (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

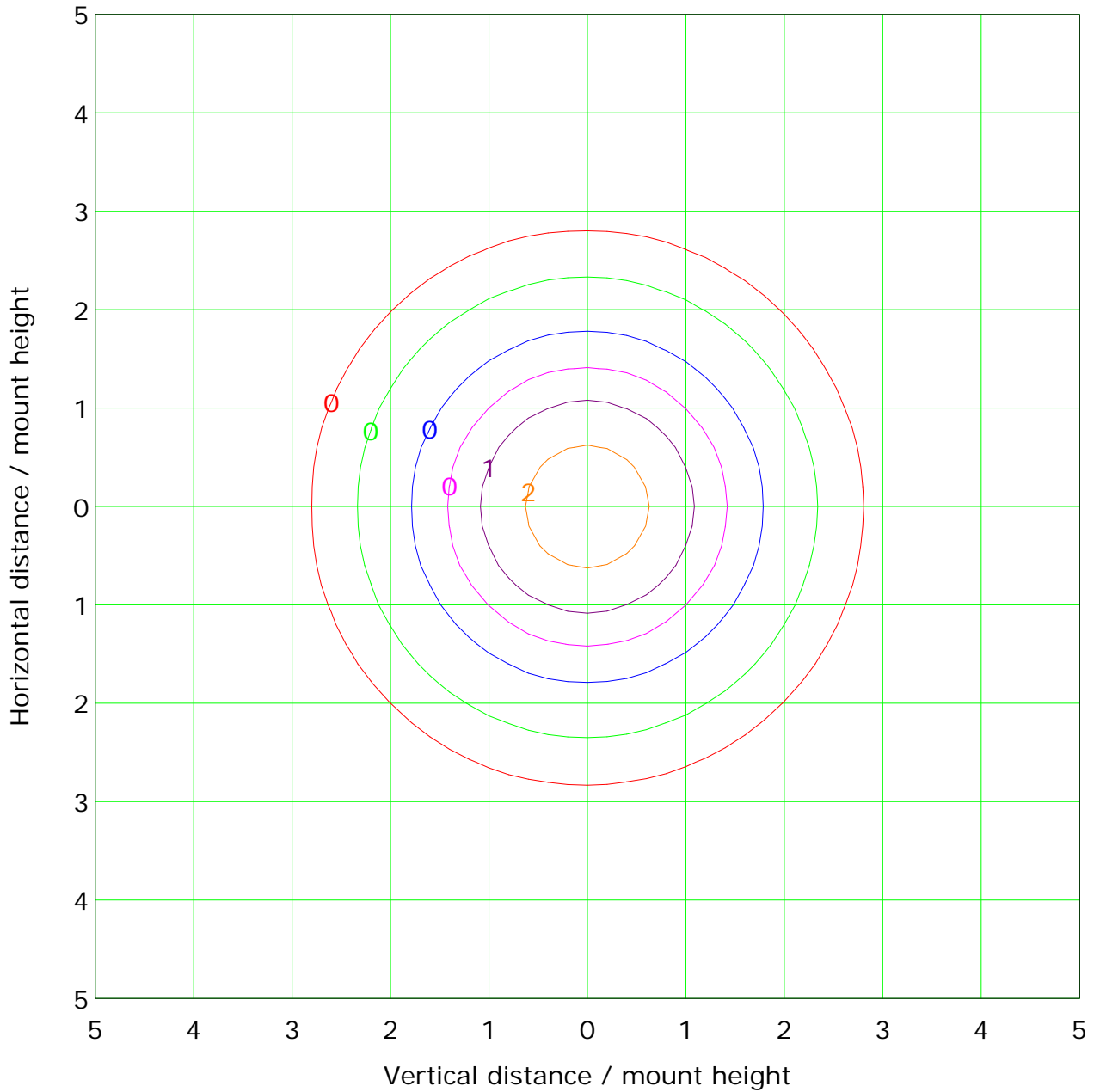
Distance: 7.970 m

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		

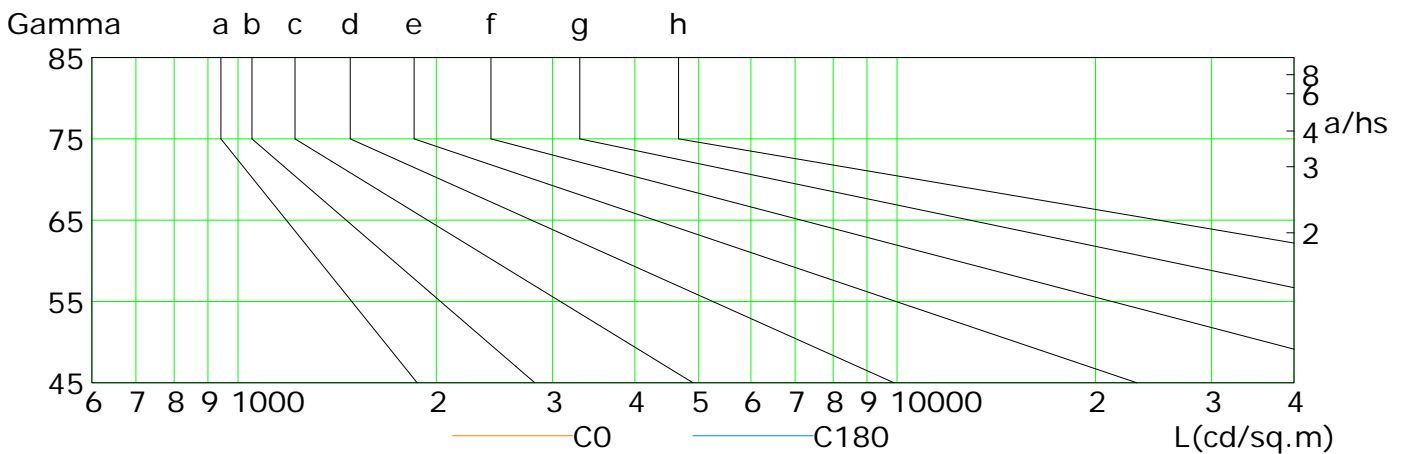
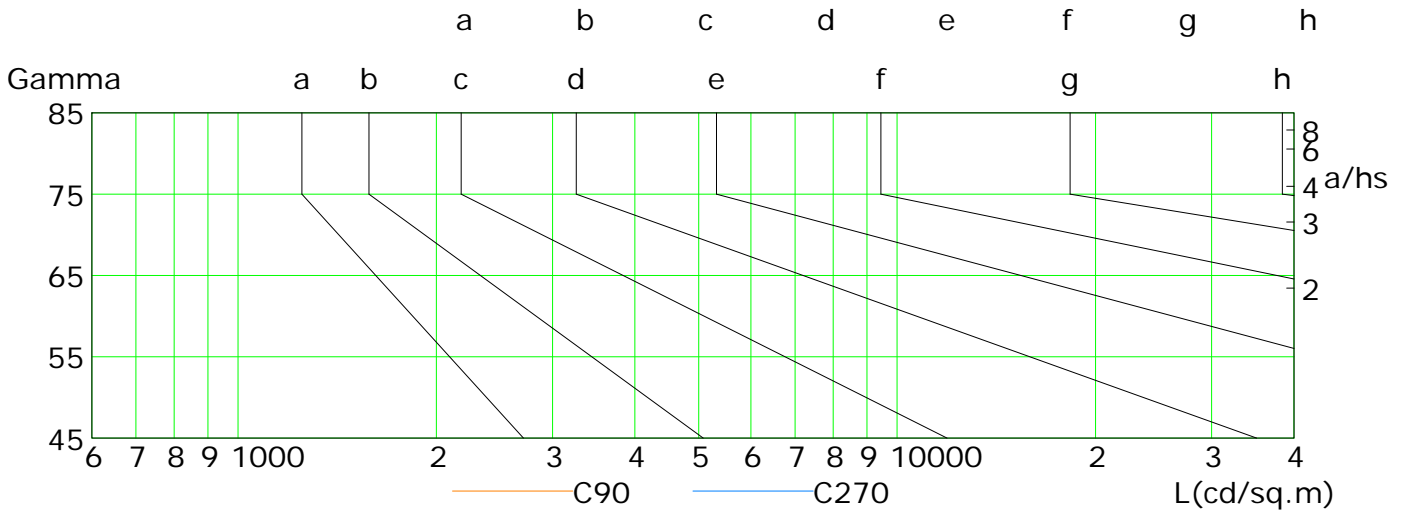
C Plane (°):0.0-360.0: 10.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

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)							
		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	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

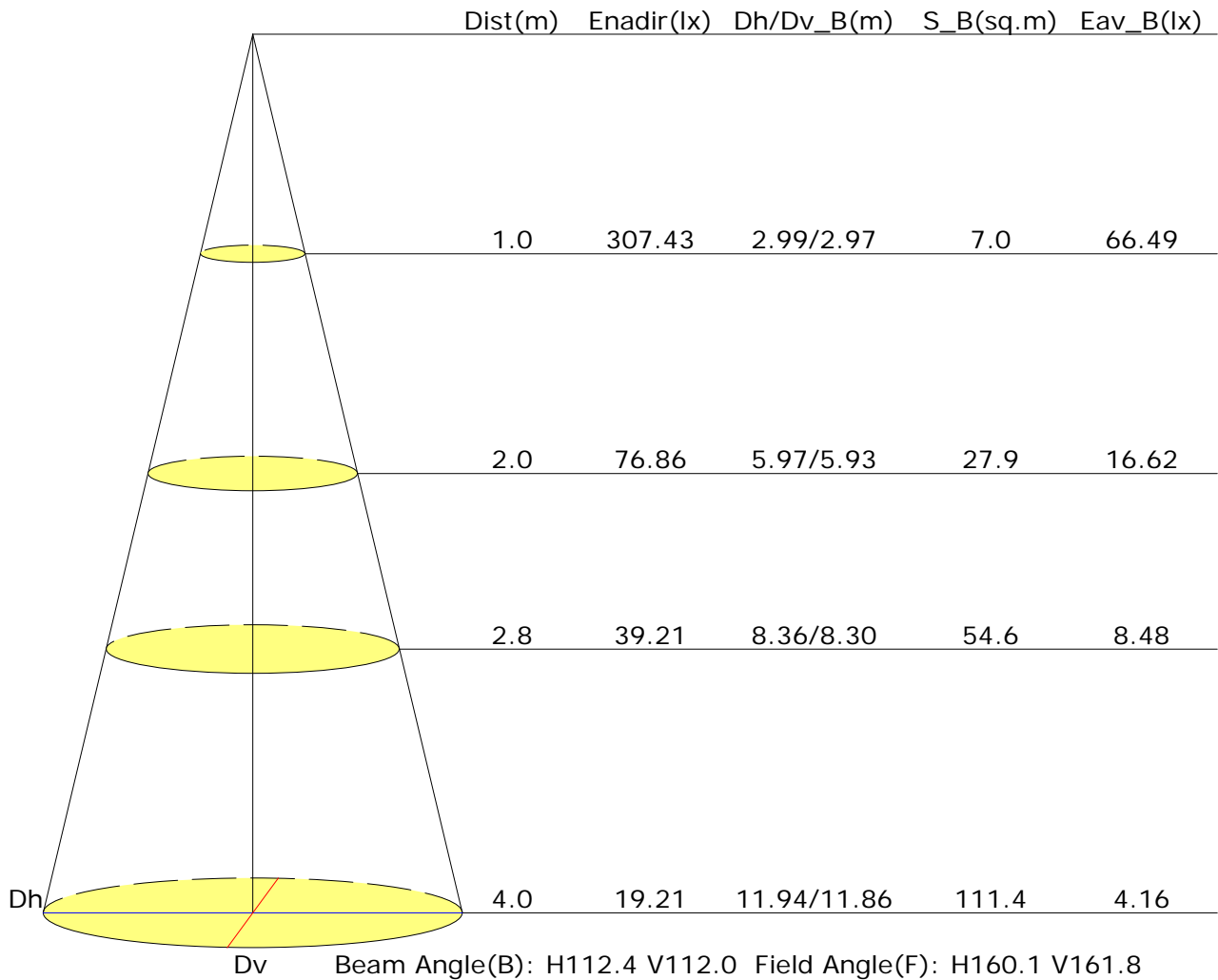
Distance: 7.970 m

Humidity:

Inspector:



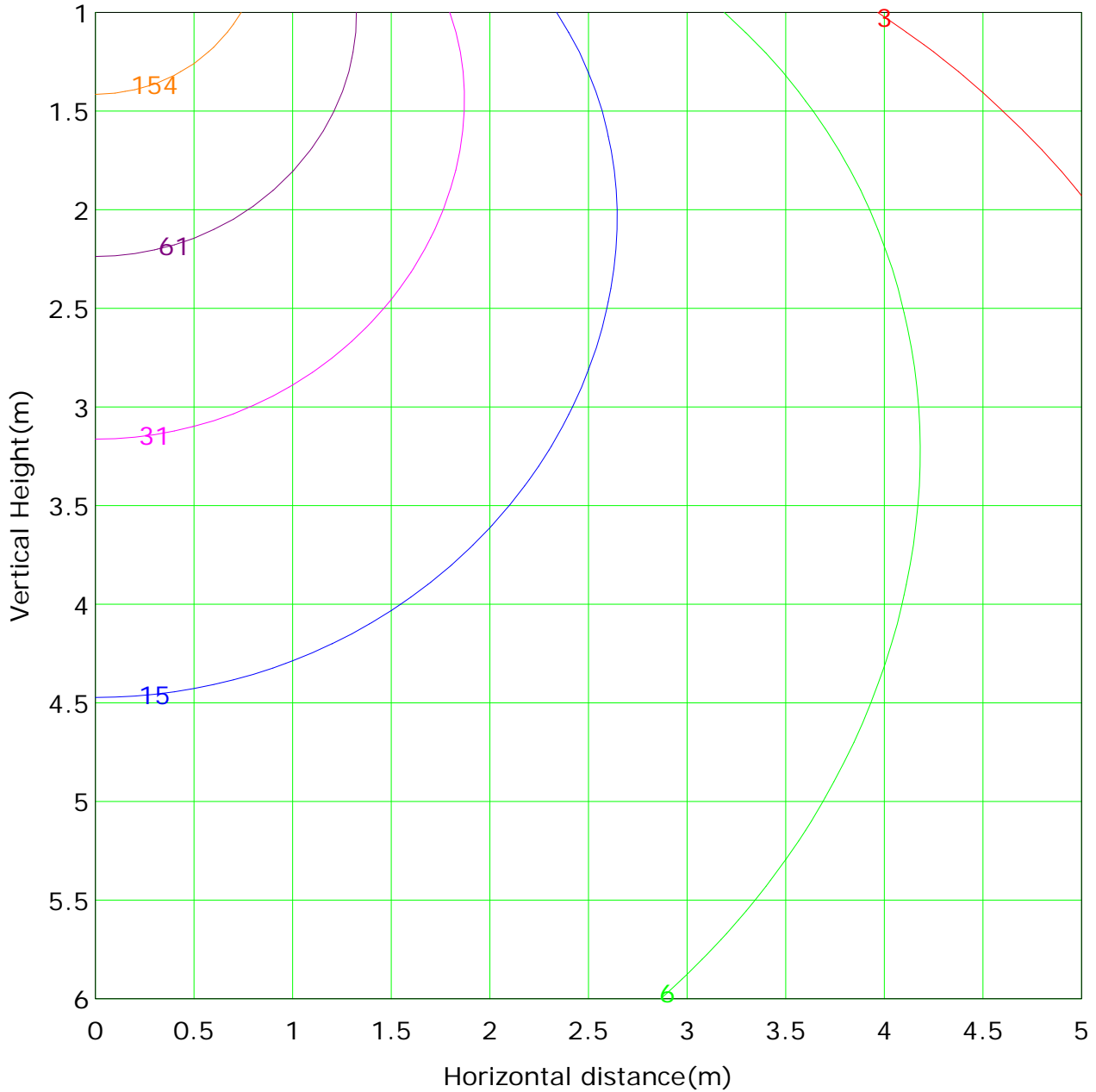
## Illuminance at a Distance







## Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 6.0m	Max Lux: 307.4 lx
— ( 1%): 3.1 lx	— ( 2%): 6.1 lx	— ( 10%): 30.7 lx
— ( 5%): 15.4 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

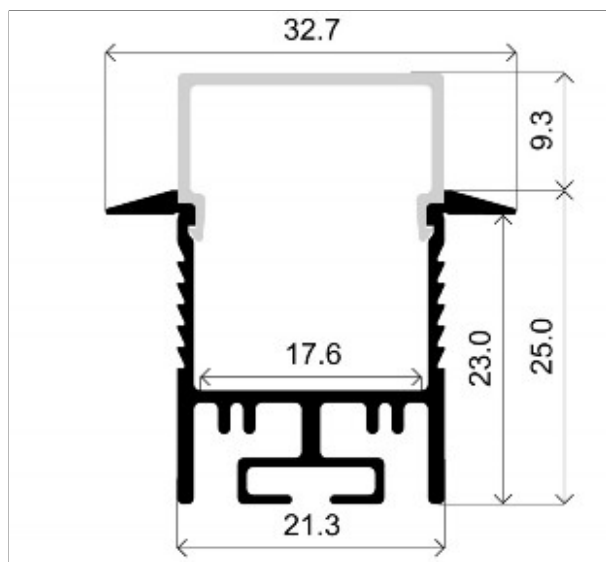
## Luminaire Property

Luminaire Manufacturer: Lighting Line  
 Luminaire Description: LLP-RE06-01 + LLD-01-CM  
 Lamp Description: Strip 14,4W/m 60led/m      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

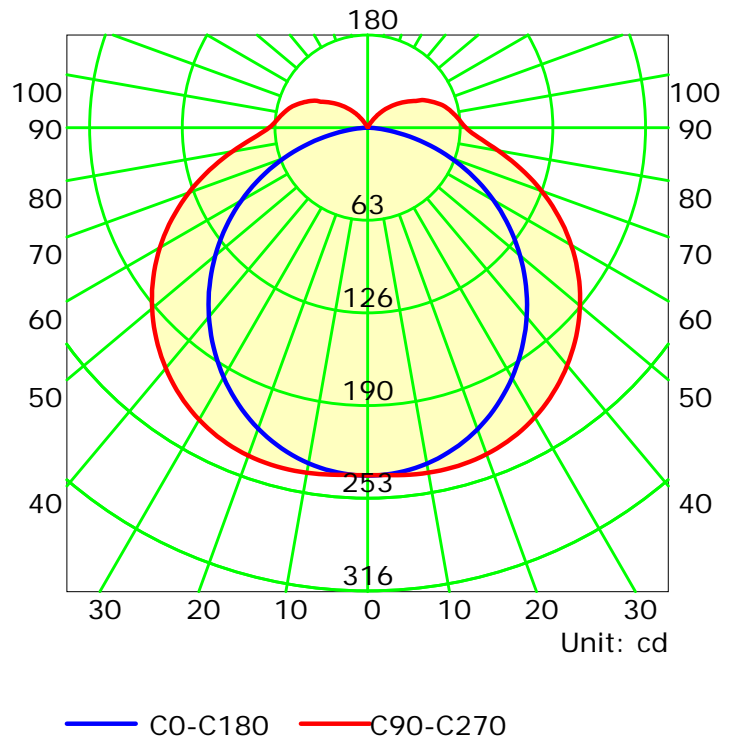
## Photometric Results

CIE Class: Semi-Direct	Total Rated Lamp Lumens: 1579.0 lm
Measurement Flux: 975.5 lm	Efficiency: 61.78%
Downward Ratio: 54.33%	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

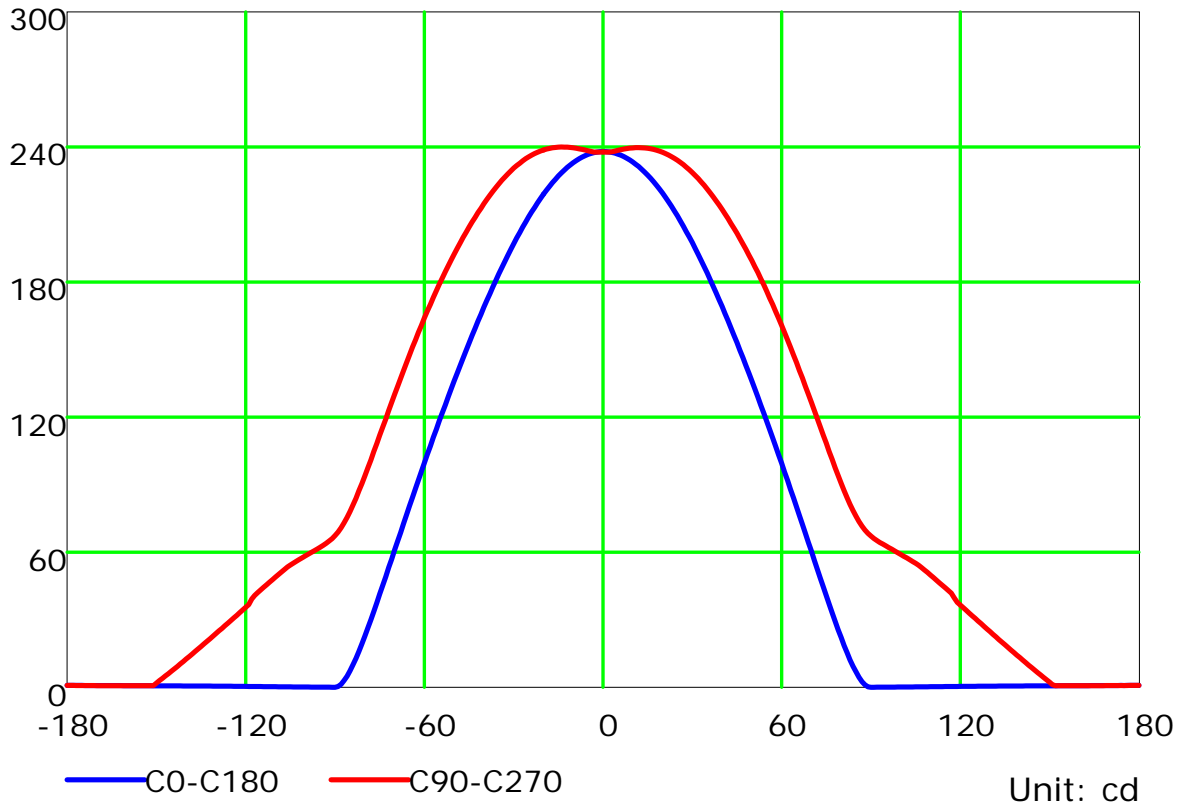
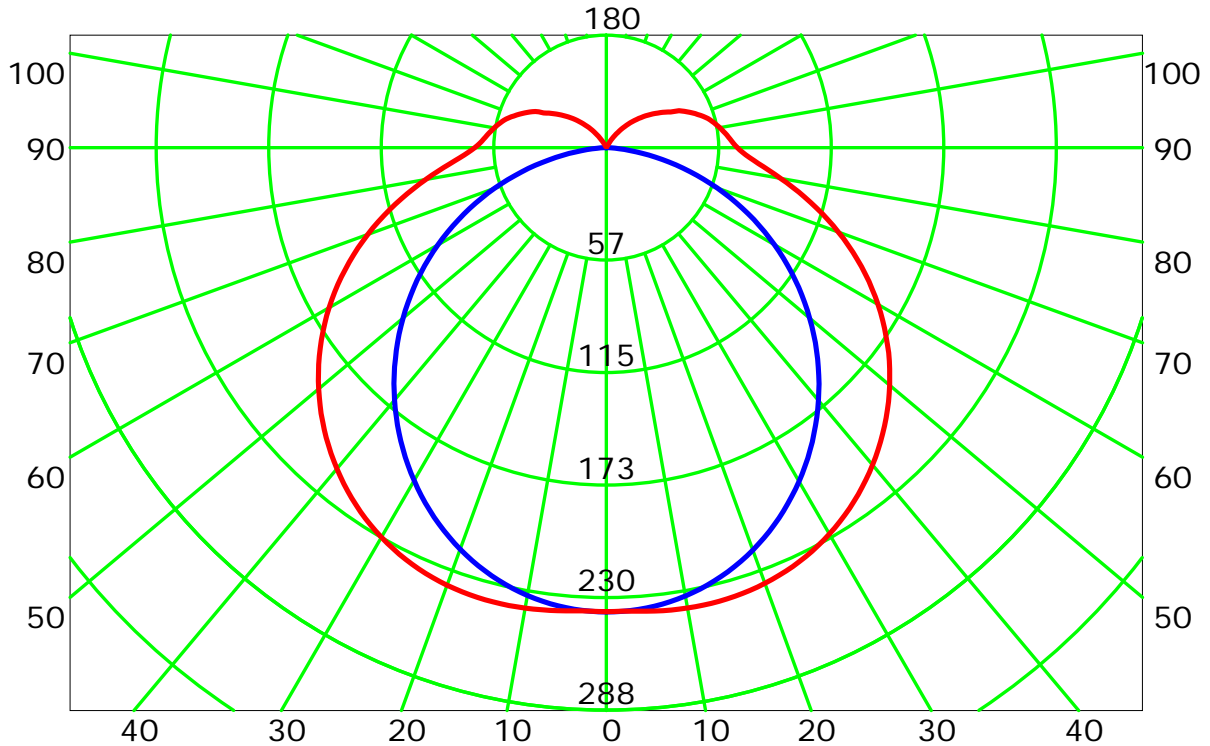
Distance: 7.970 m

Humidity:

Inspector:



## Luminous Intensity Distribution Curve

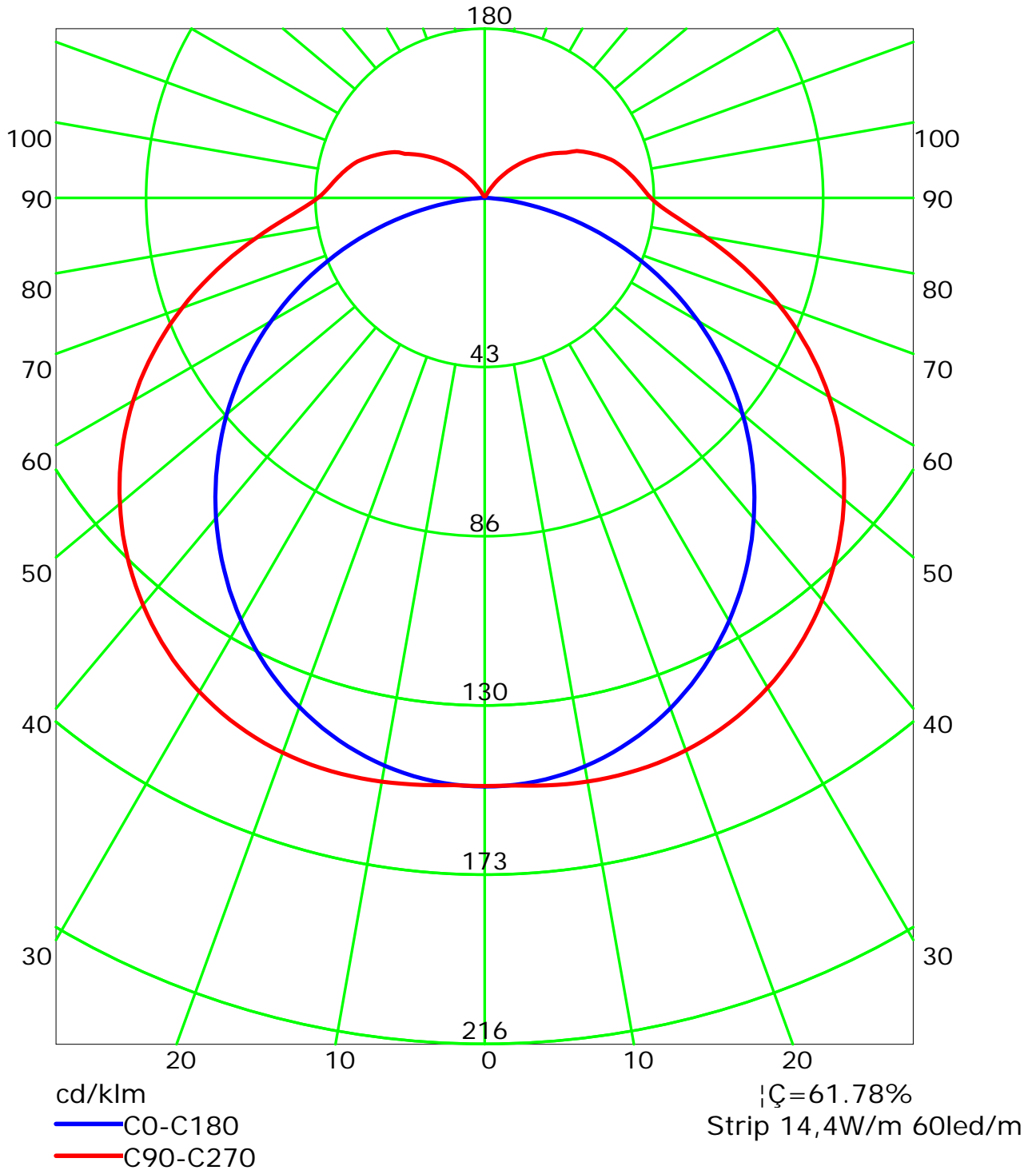


C Plane (°):0.0-360.0: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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



## Luminous Intensity Distribution Curve(cd/klm)

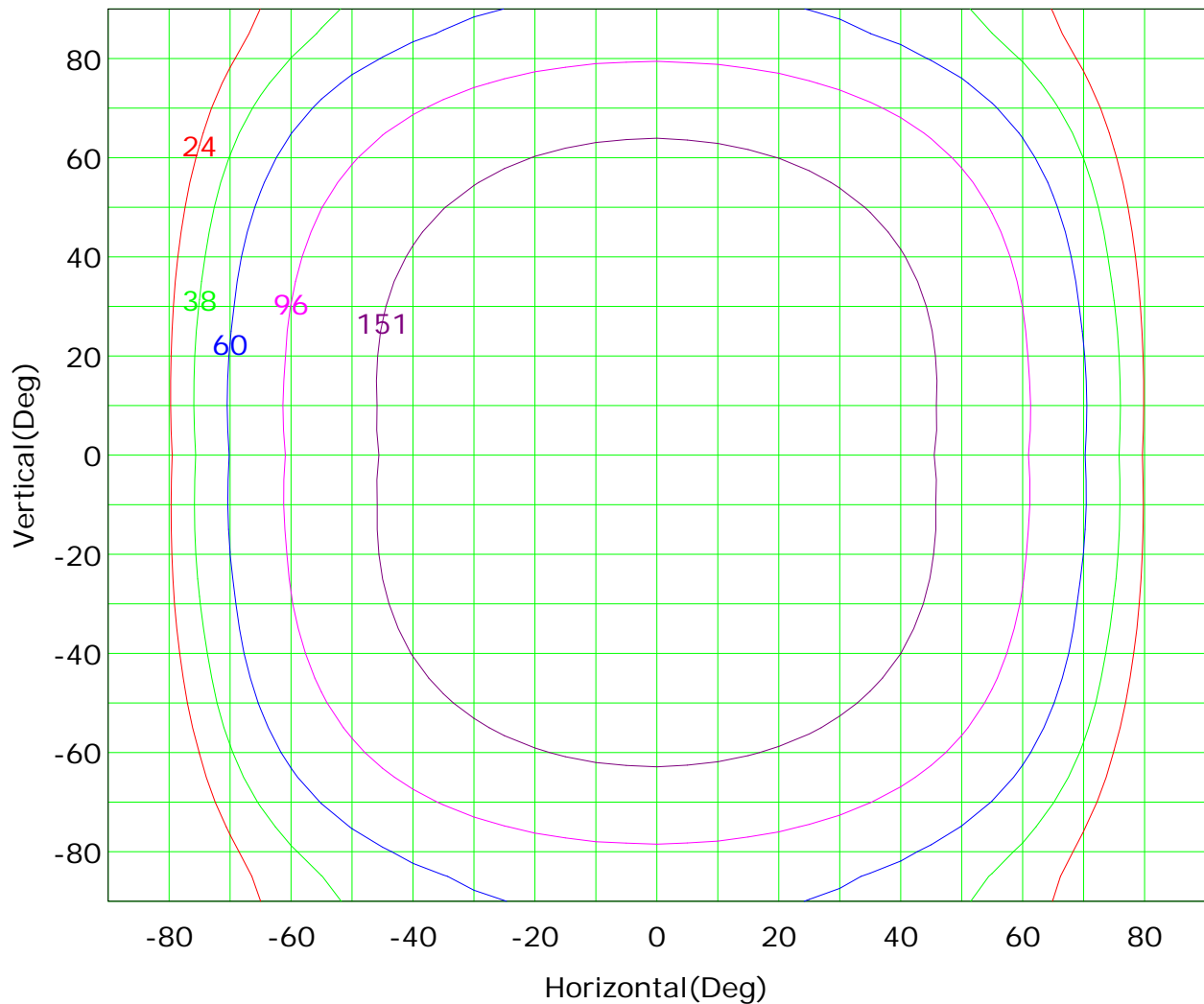


C Plane (°):0.0-360.0: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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



## Isocandela (rectangle)



Imax (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

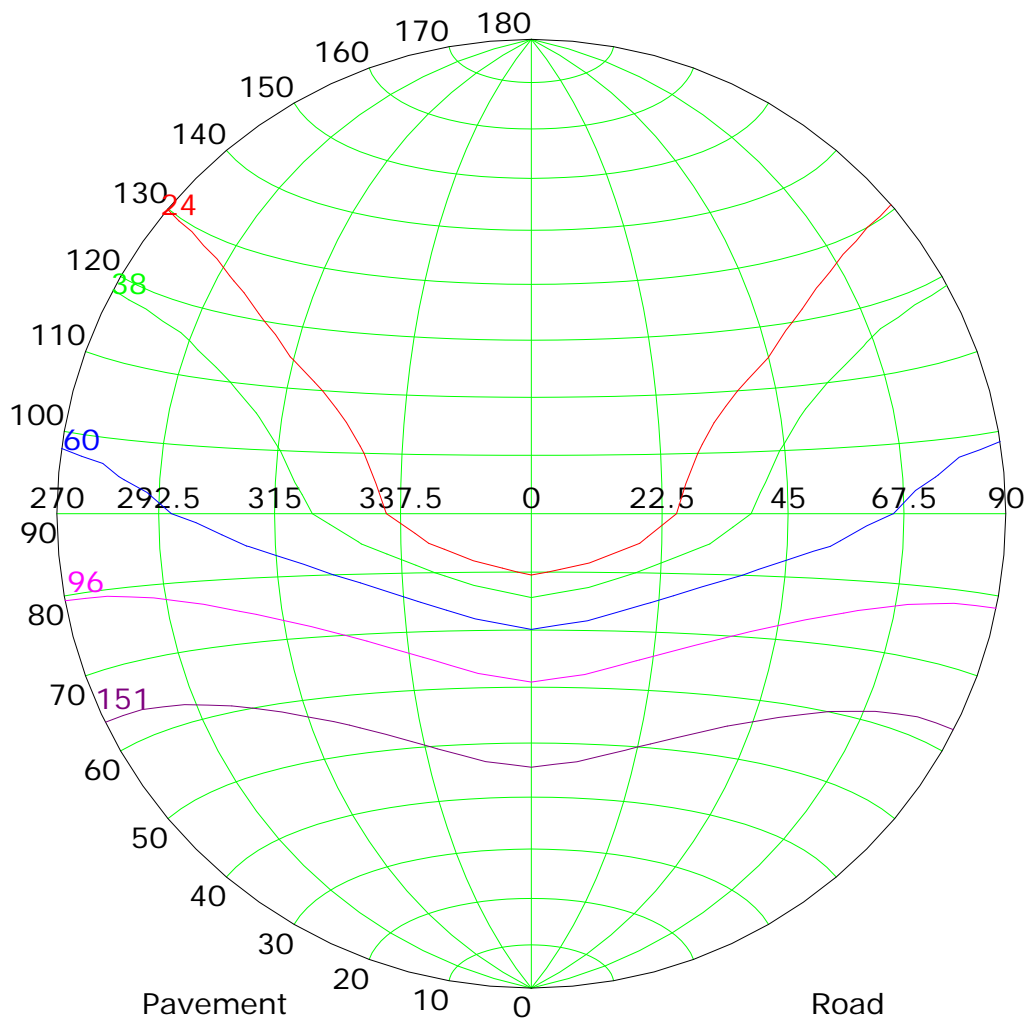
Distance: 7.970 m

Humidity:

Inspector:



## Isocandela (sphere)



Imax (100%): 240 cd

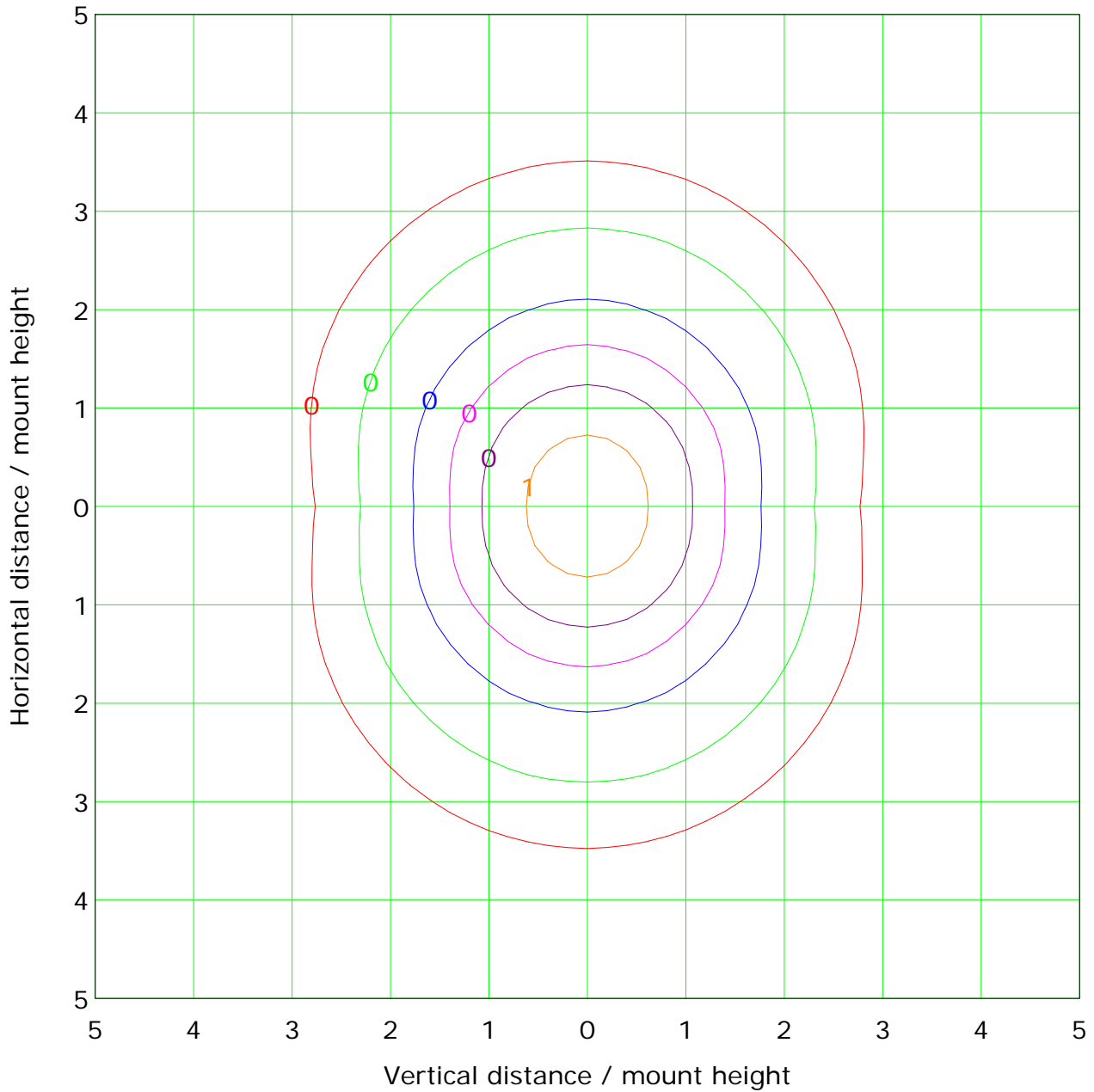
— ( 10%):	24 cd	— ( 16%):	38 cd
— ( 25%):	60 cd	— ( 40%):	96 cd
— ( 63%):	151 cd	— (100%):	240 cd

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		

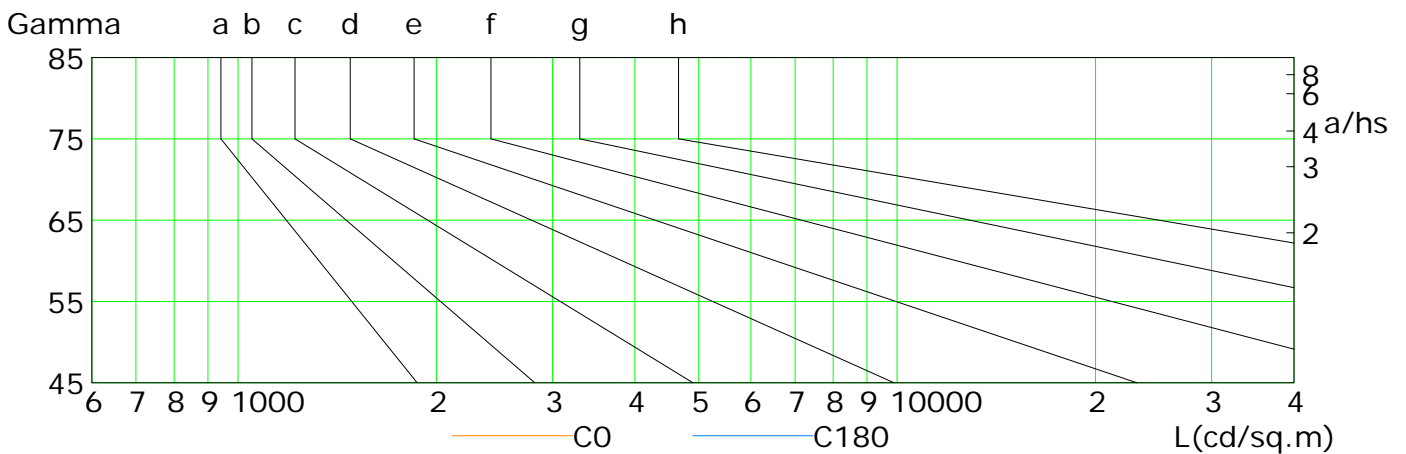
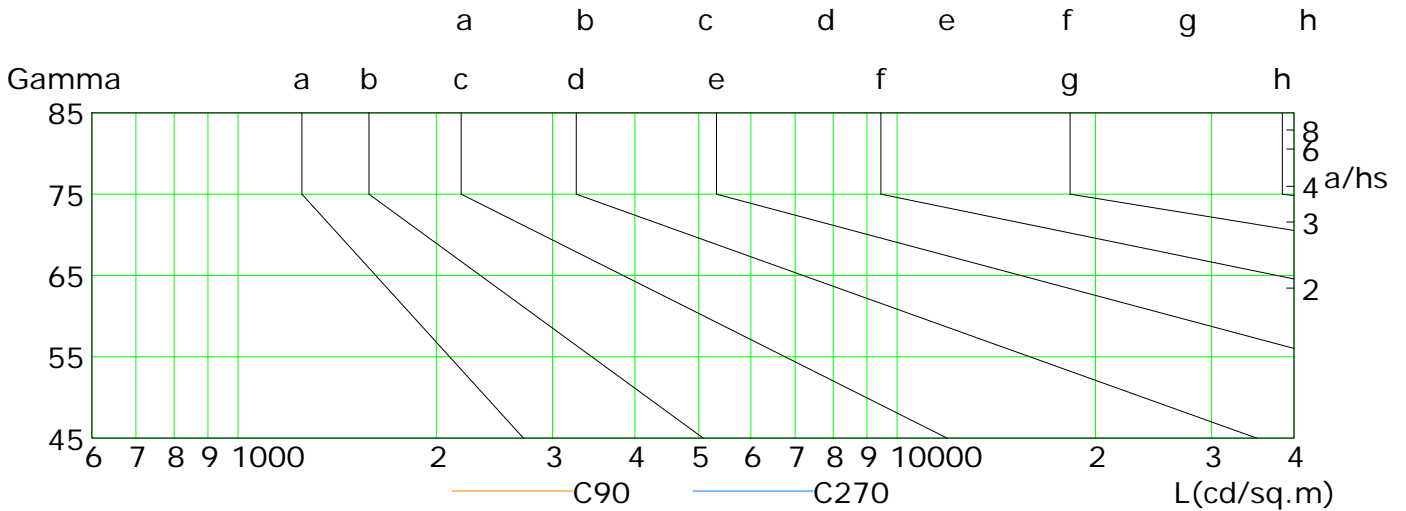
C Plane (°):0.0-360.0: 10.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

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)							
		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	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

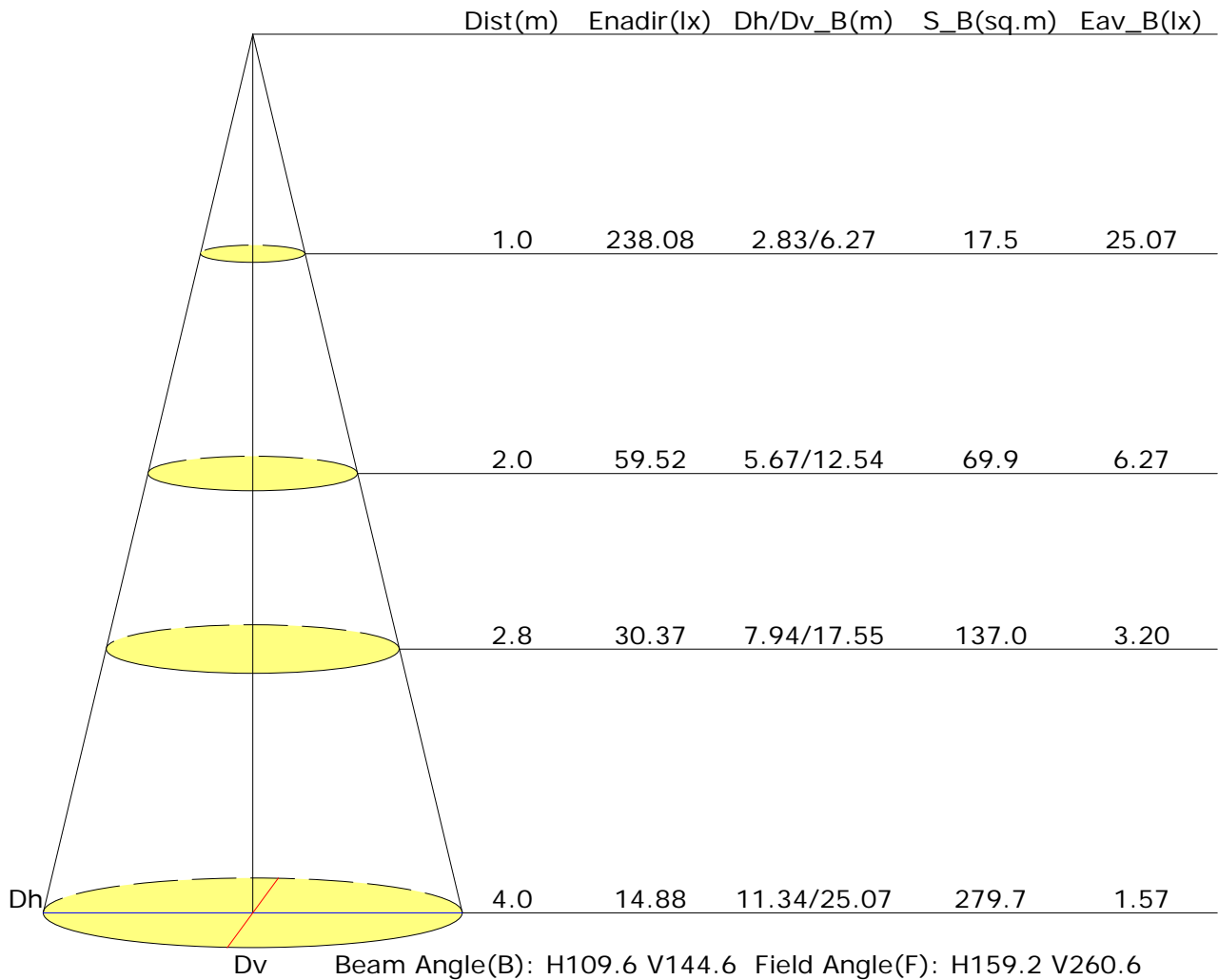
Humidity:

Inspector:



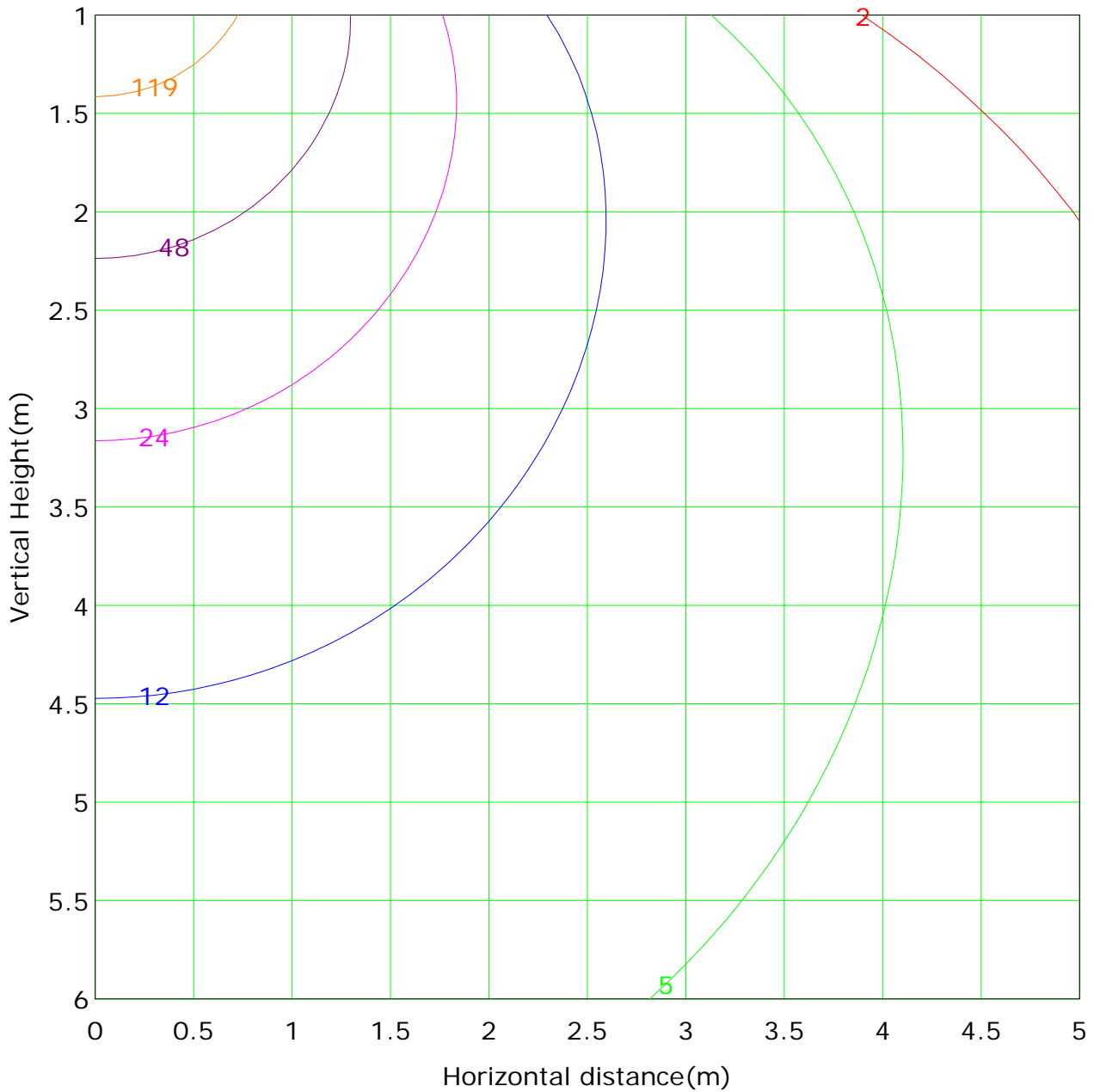


## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 6.0m	Max Lux: 238.1 lx
( 1%): 2.4 lx	( 2%): 4.8 lx	( 10%): 23.8 lx
( 5%): 11.9 lx	( 20%): 47.6 lx	( 50%): 119.0 lx
(100%): 238.1 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: