



Report No.:

Test Time: 04/10/2018 16:31

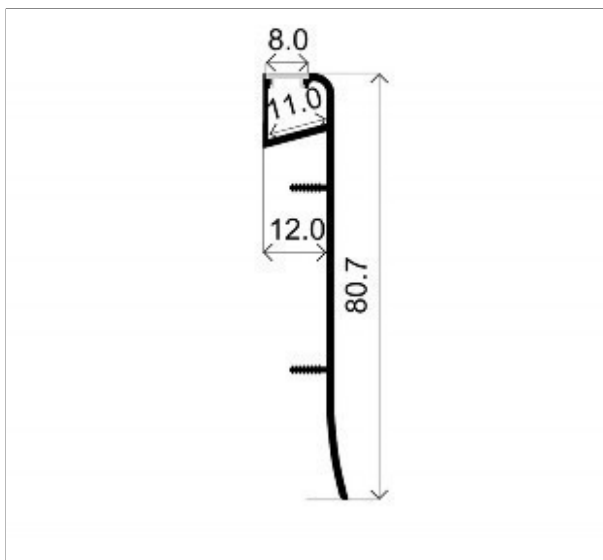
Luminaire Property

Luminaire Manufacturer: Lighting Line
 Luminaire Description: LLP-BB01-02 + 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: 0.373 A Power: 8.94 W
 Power Factor: 1.000

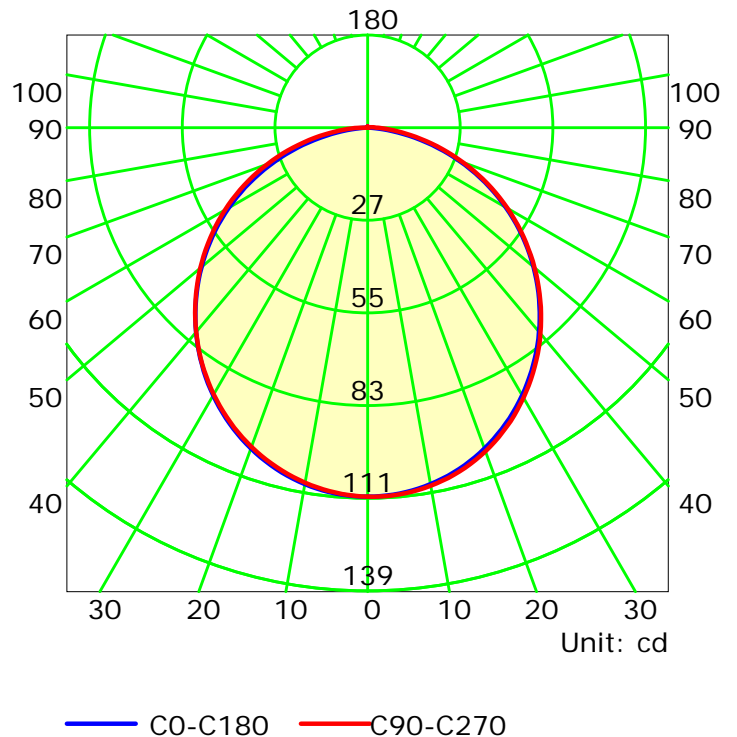
Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 1000.0 lm
Measurement Flux: 319.5 lm	Efficiency: 31.95%
Downward Ratio: 31.79%	Upward Ratio: 0.17%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.9, 163.7, 162.2, 162.4	
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.6, 112.4, 112.4, 112.4	
Luminaire Efficacy Rating (LER): 35.79	Central Intensity: 111.38 cd
Max. Intensity: 111.42 cd	Pos of Max. Intensity: H30 V1
S/MH(C0/C180): 1.25	S/MH(C90/C270): 1.25

Picture Of Luminaire



Luminous Intensity Distribution Curve

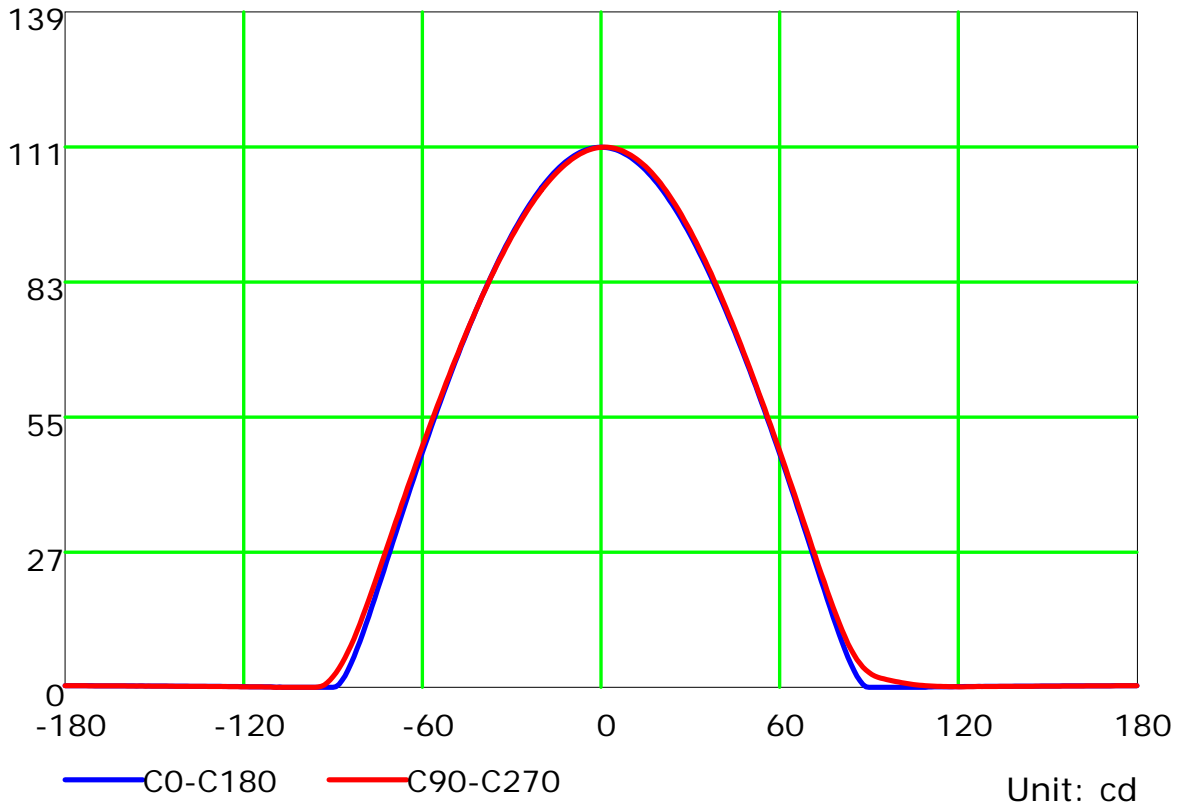
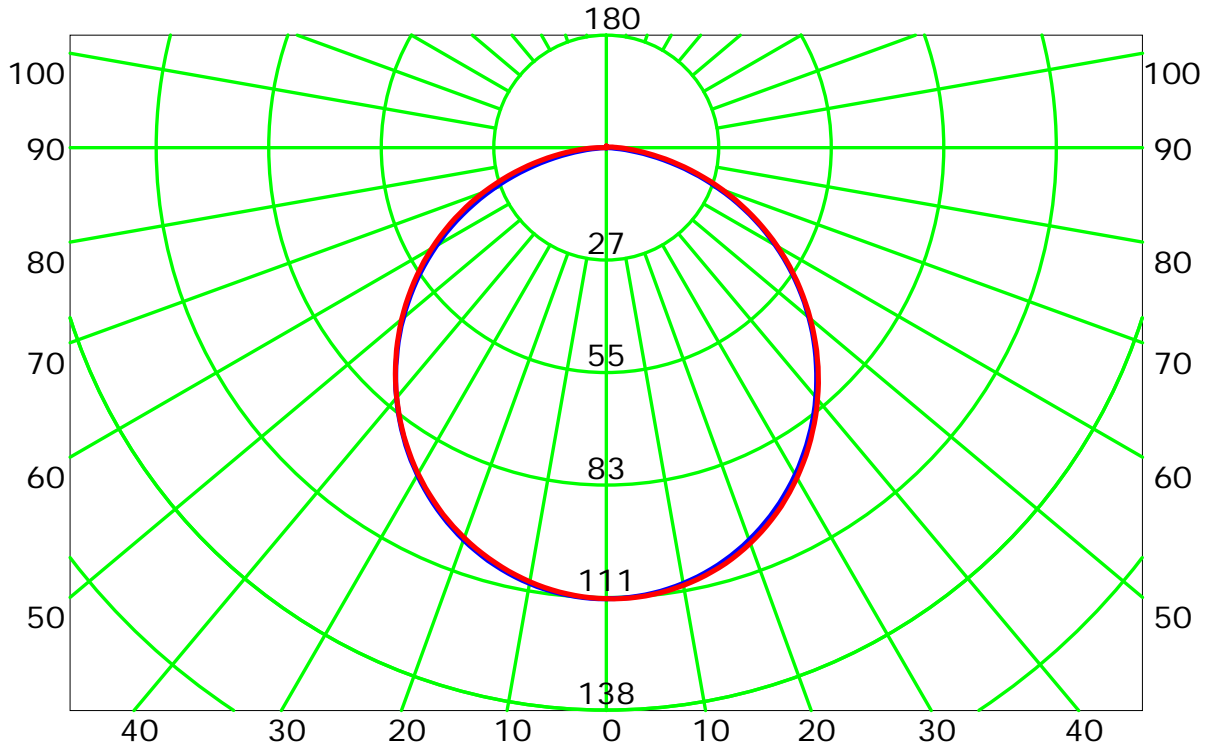


C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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



Luminous Intensity Distribution Curve

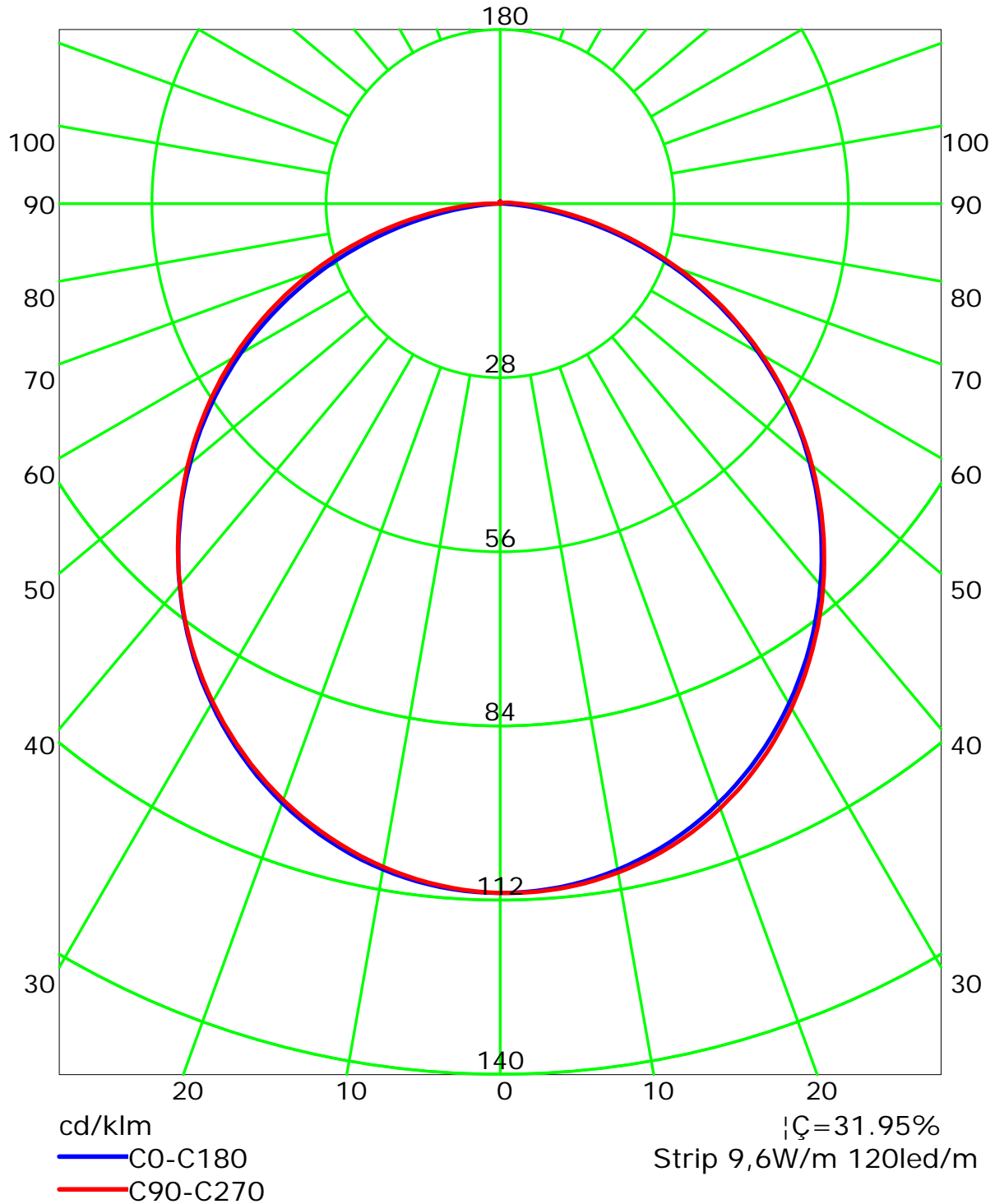


C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



Luminous Intensity Distribution Curve(cd/klm)

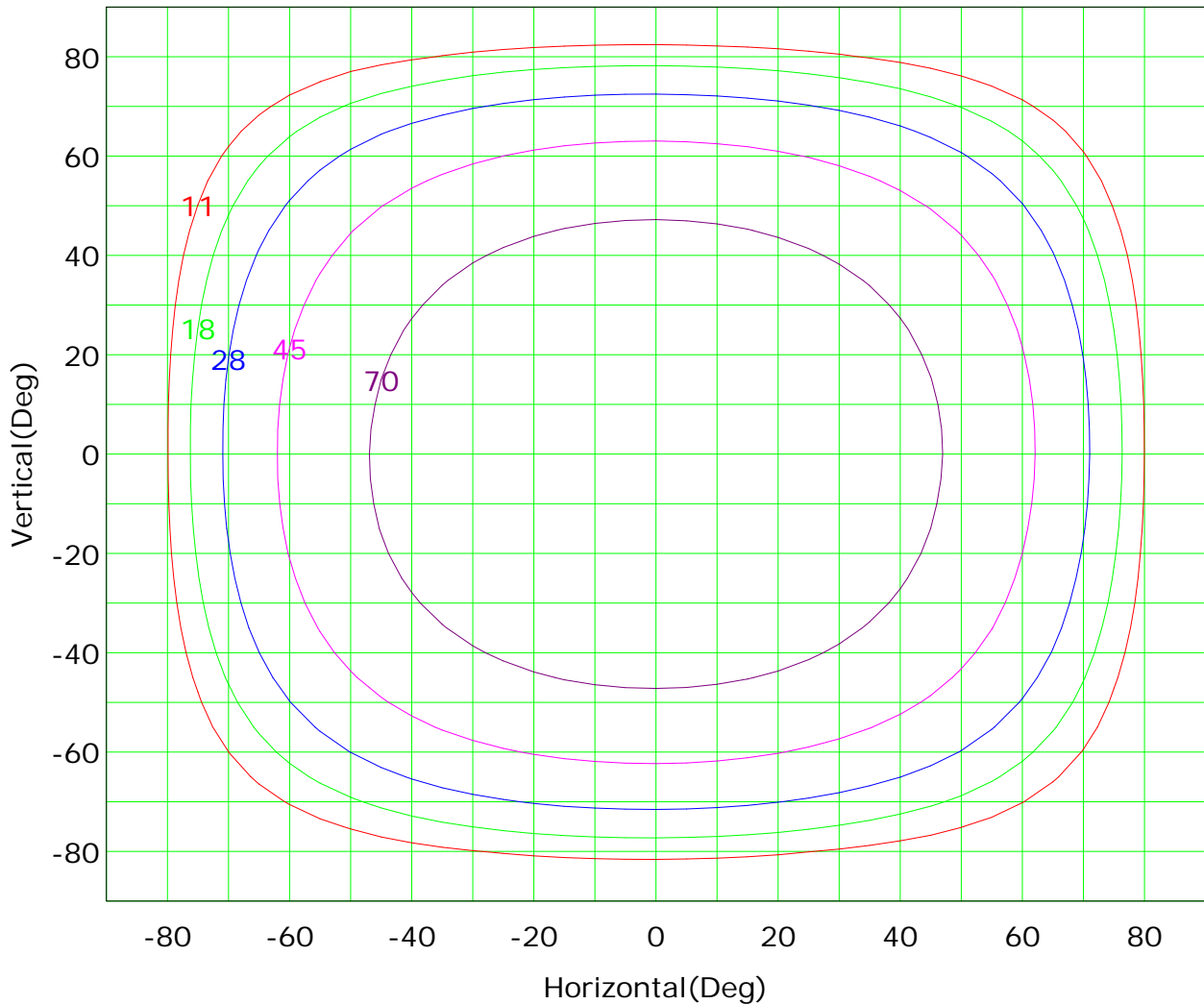


C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



Isocandela (rectangle)



Imax (100%): 111 cd

— (10%):	11 cd	— (16%):	18 cd
— (25%):	28 cd	— (40%):	45 cd
— (63%):	70 cd	— (100%):	111 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

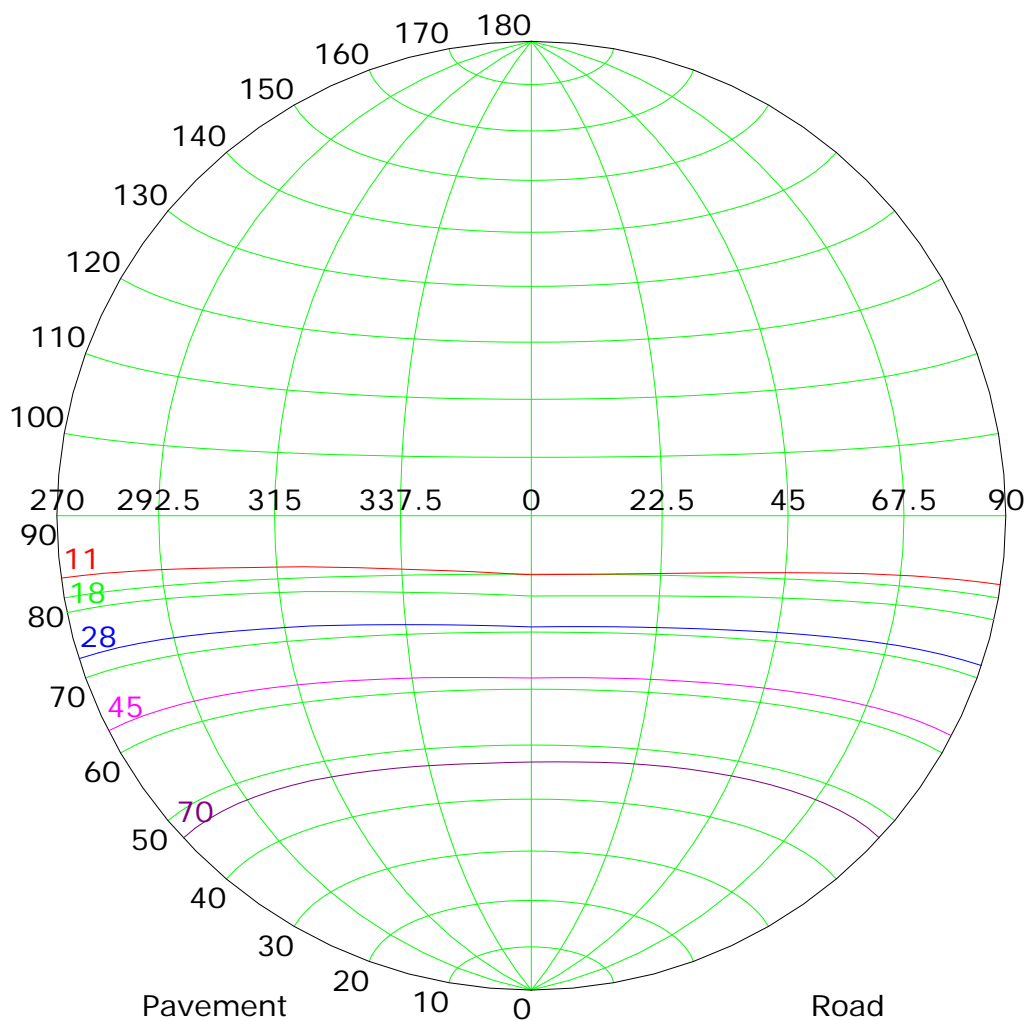
Distance: 7.970 m

Humidity:

Inspector:



Isocandela (sphere)



Imax (100%): 111 cd

— (10%):	11 cd	— (16%):	18 cd
— (25%):	28 cd	— (40%):	45 cd
— (63%):	70 cd	— (100%):	111 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

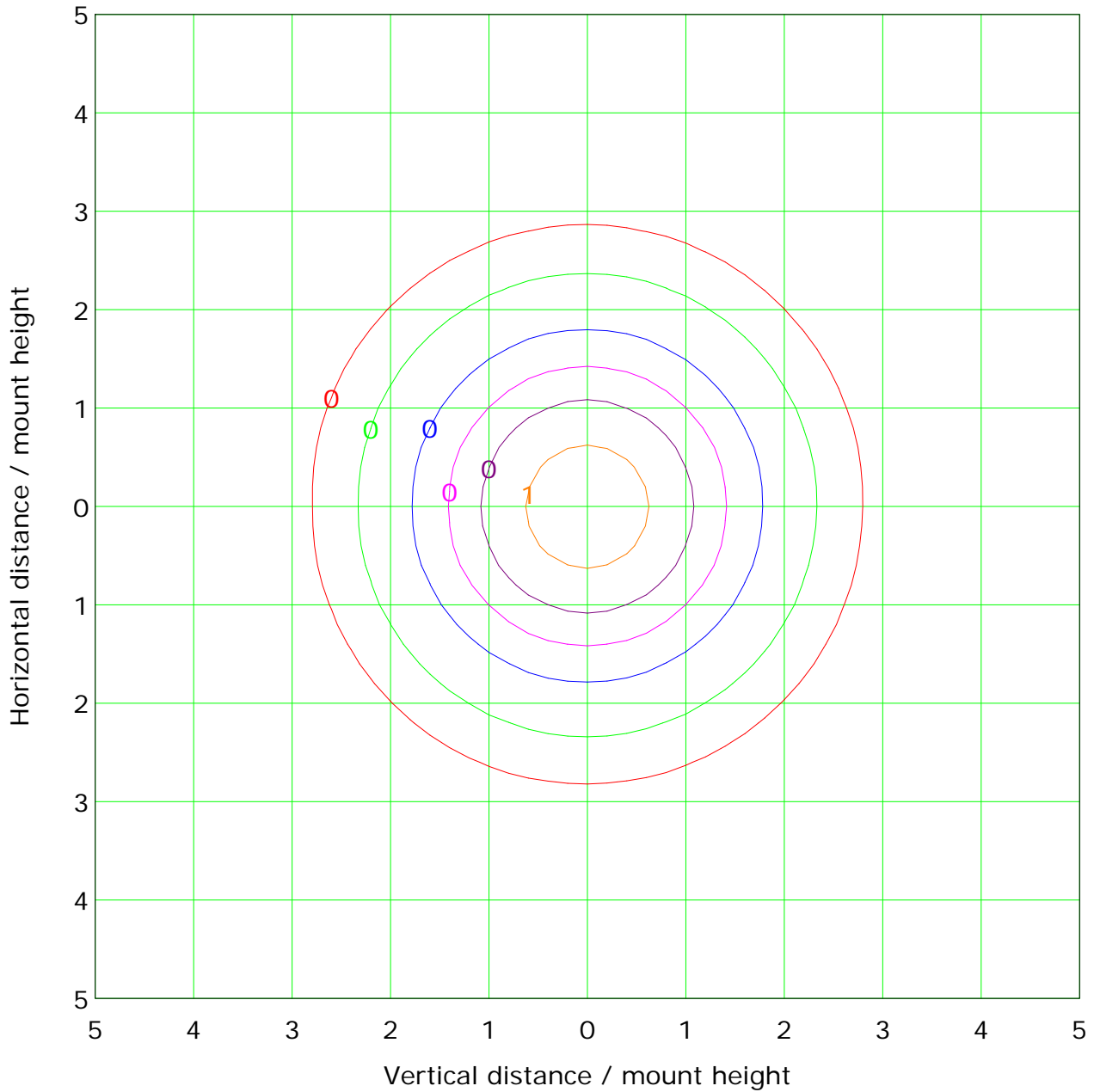
Distance: 7.970 m

Humidity:

Inspector:



IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 1.1 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%):	1.1 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	73	65	57	48	39	30	20	11	3
C90	74	66	57	49	40	31	22	13	7
C180	73	65	57	48	39	30	20	11	4
C270	73	66	58	50	41	32	23	15	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-2000

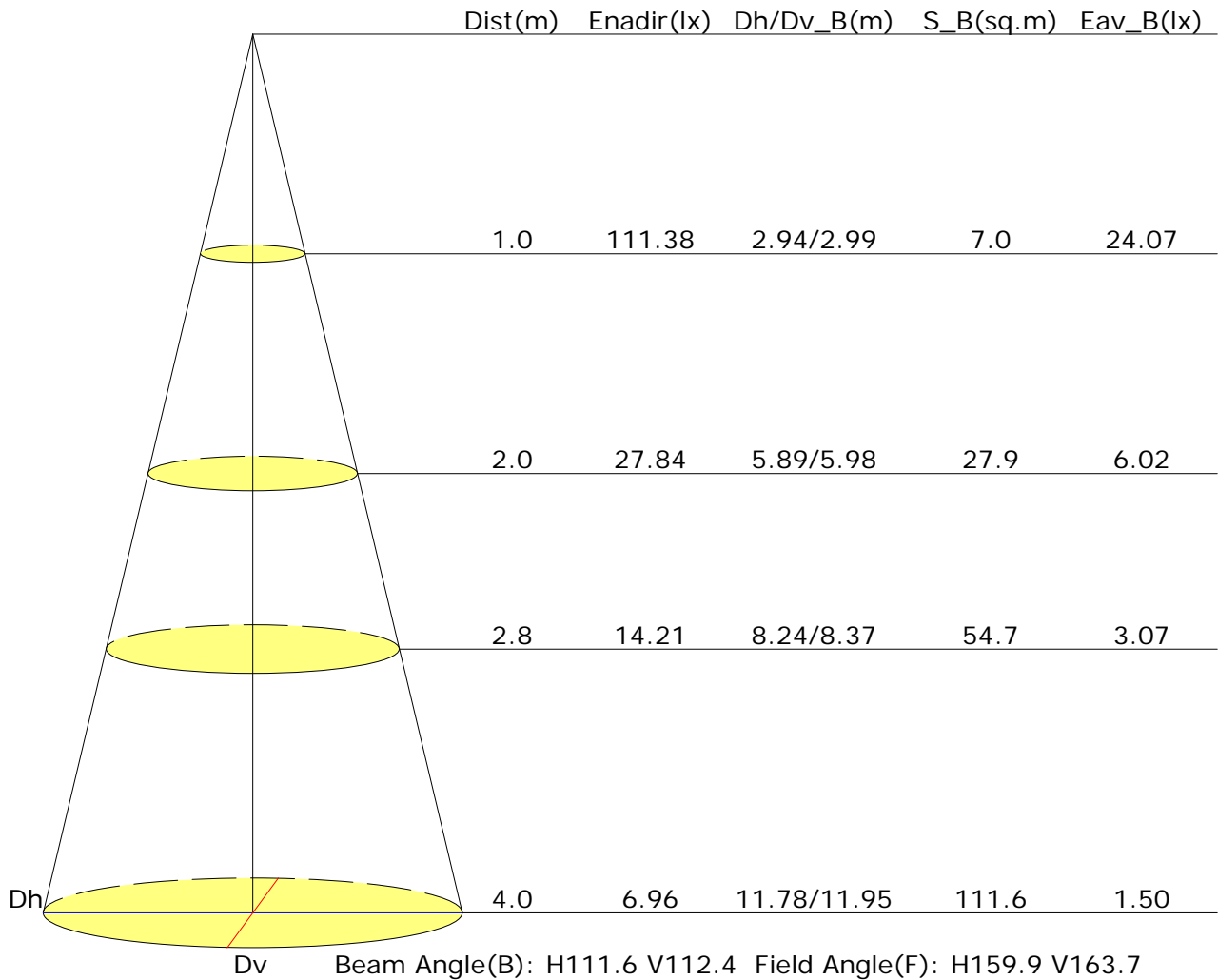
Distance: 7.970 m

Humidity:

Inspector:

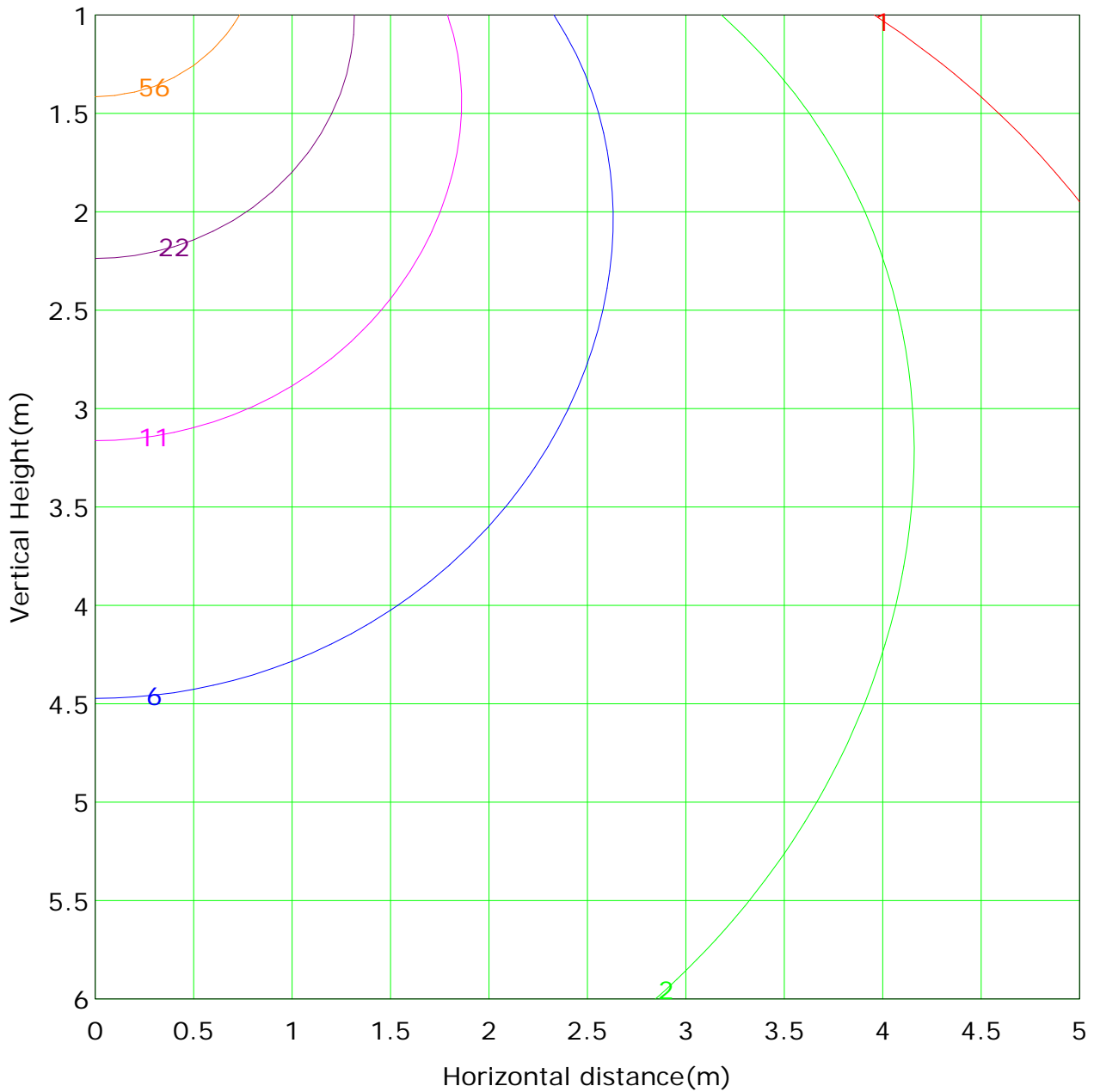


Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 6.0m	Max Lux: 111.4 lx
(1%): 1.1 lx	(2%): 2.2 lx	
(5%): 5.6 lx	(10%): 11.1 lx	
(20%): 22.3 lx	(50%): 55.7 lx	
(100%): 111.4 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:



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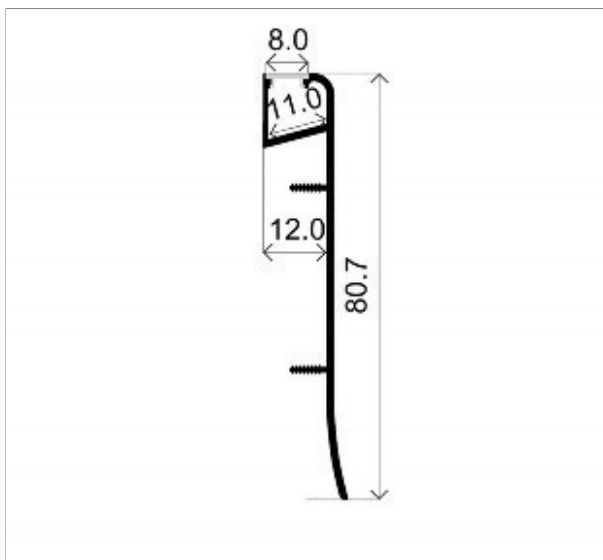
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Luminaire Manufacturer: Lighting Line
 Luminaire Description: LLP-BB01-02 + LLD-02-FS
 Lamp Description: Strip 9,6W/m 120led/m Number of Lamps: 1
 Lumens per Lamp: 1000 lm Voltage: 24.0 V
 Current: 0.372 A Power: 8.92 W
 Power Factor: 1.000

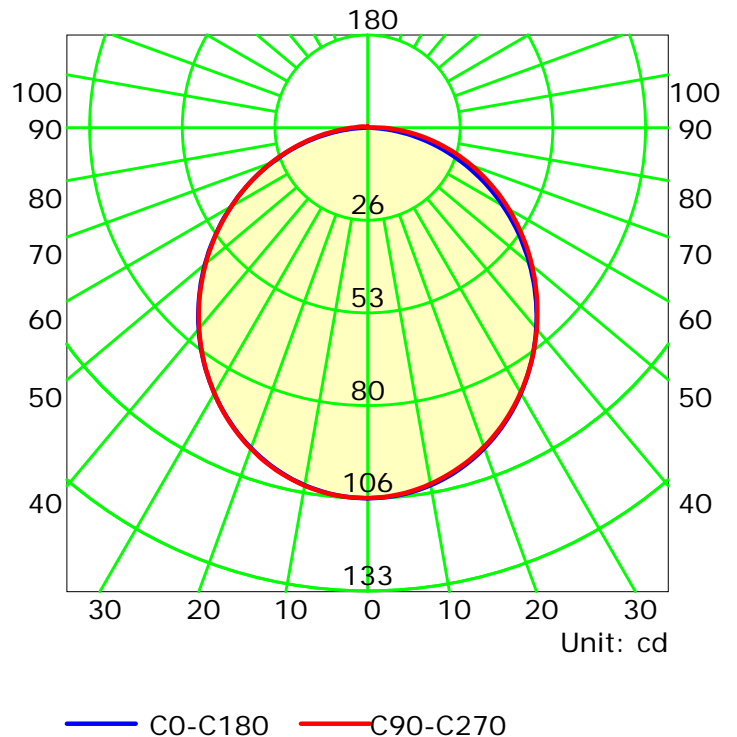
Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 1000.0 lm
Measurement Flux: 306.3 lm	Efficiency: 30.63%
Downward Ratio: 30.40%	Upward Ratio: 0.23%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.3, 167.5, 165.8, 165.7	
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.8, 110.7, 110.6, 110.6	
Luminaire Efficacy Rating (LER): 34.39	Central Intensity: 106.71 cd
Max. Intensity: 106.71 cd	Pos of Max. Intensity: H0 V0
S/MH(C0/C180): 1.23	S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve

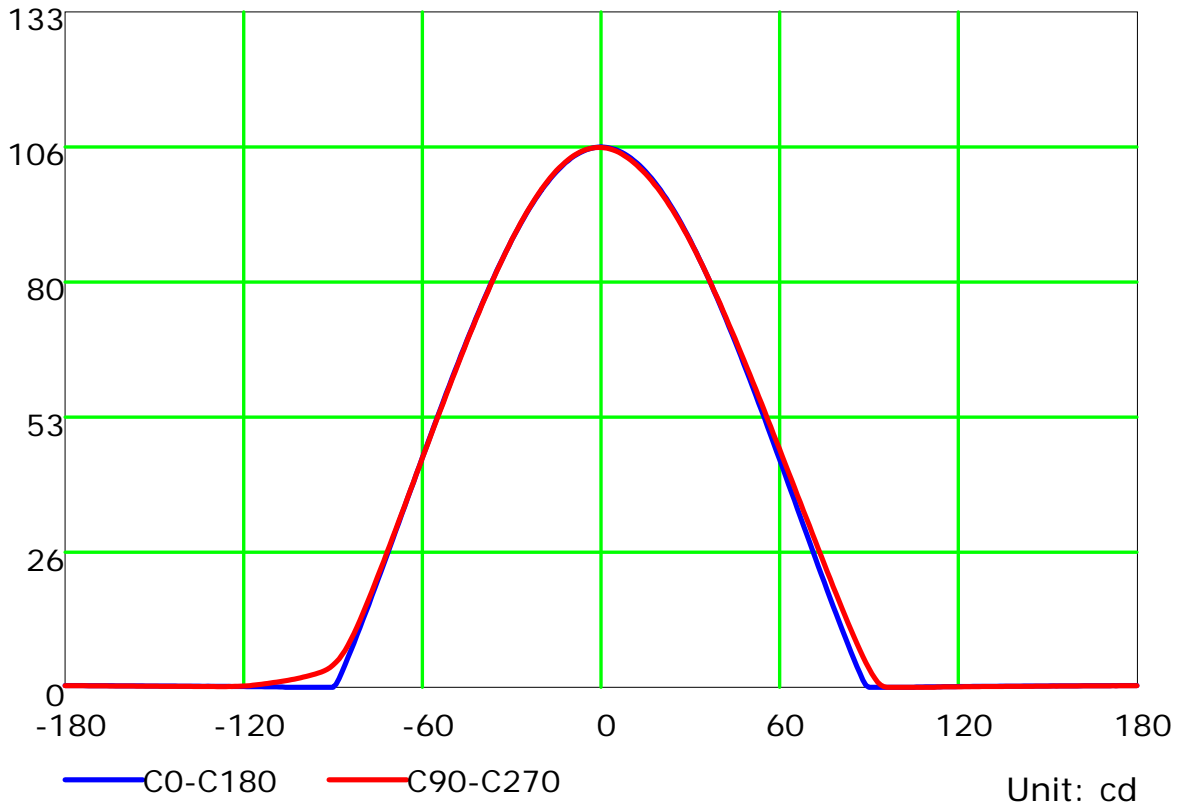
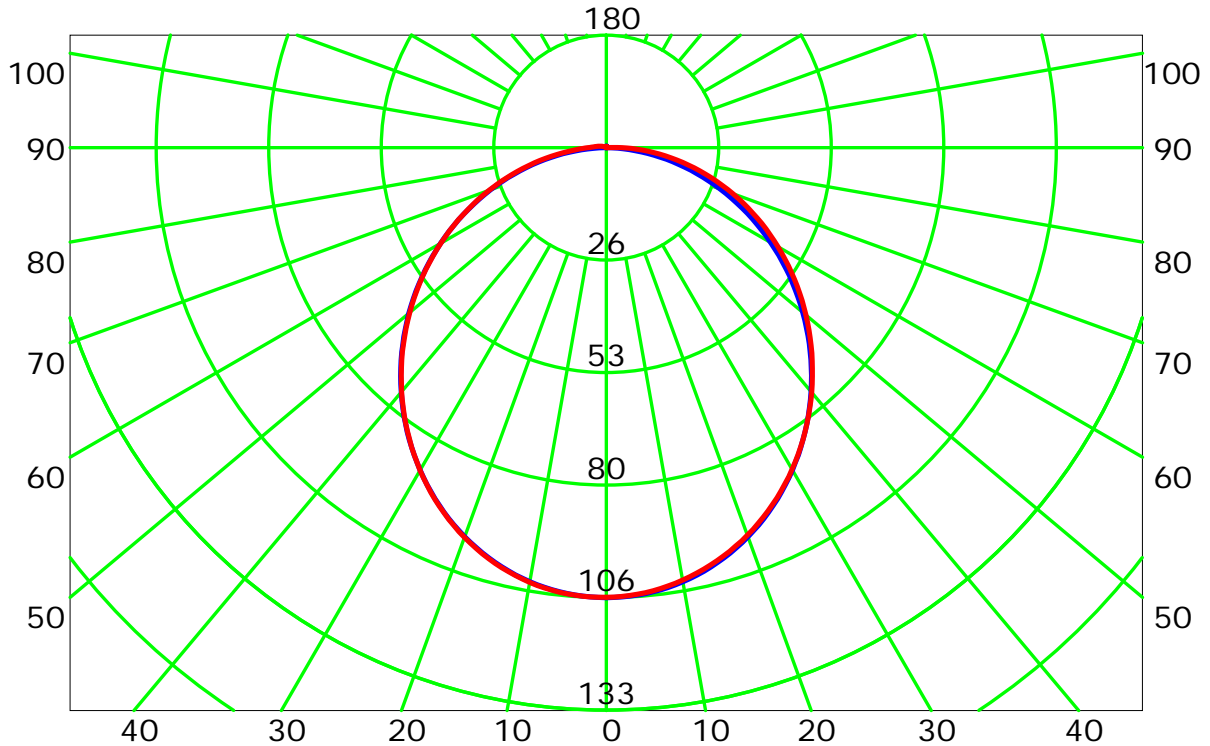


C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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



Luminous Intensity Distribution Curve

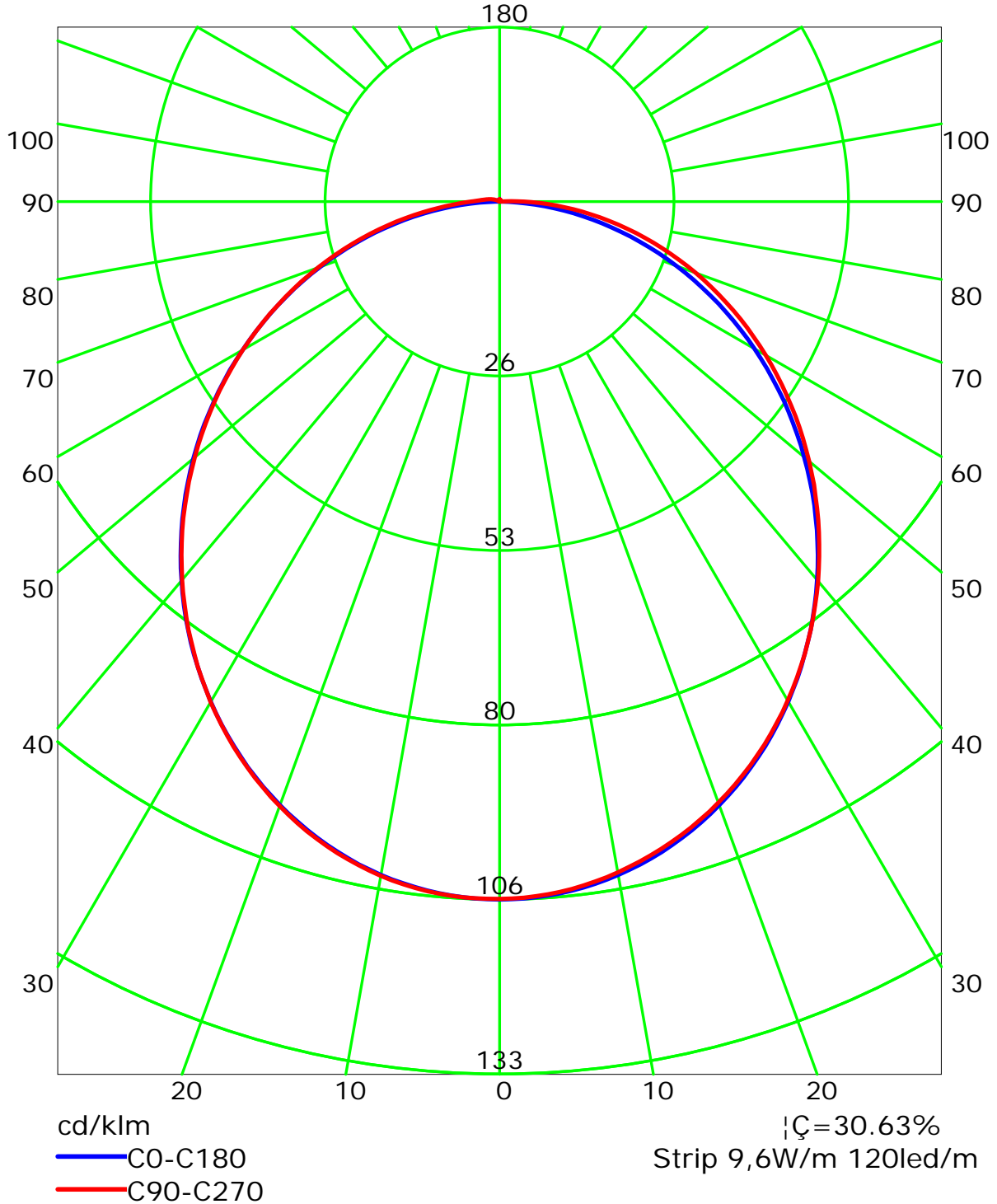


C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



Luminous Intensity Distribution Curve(cd/klm)

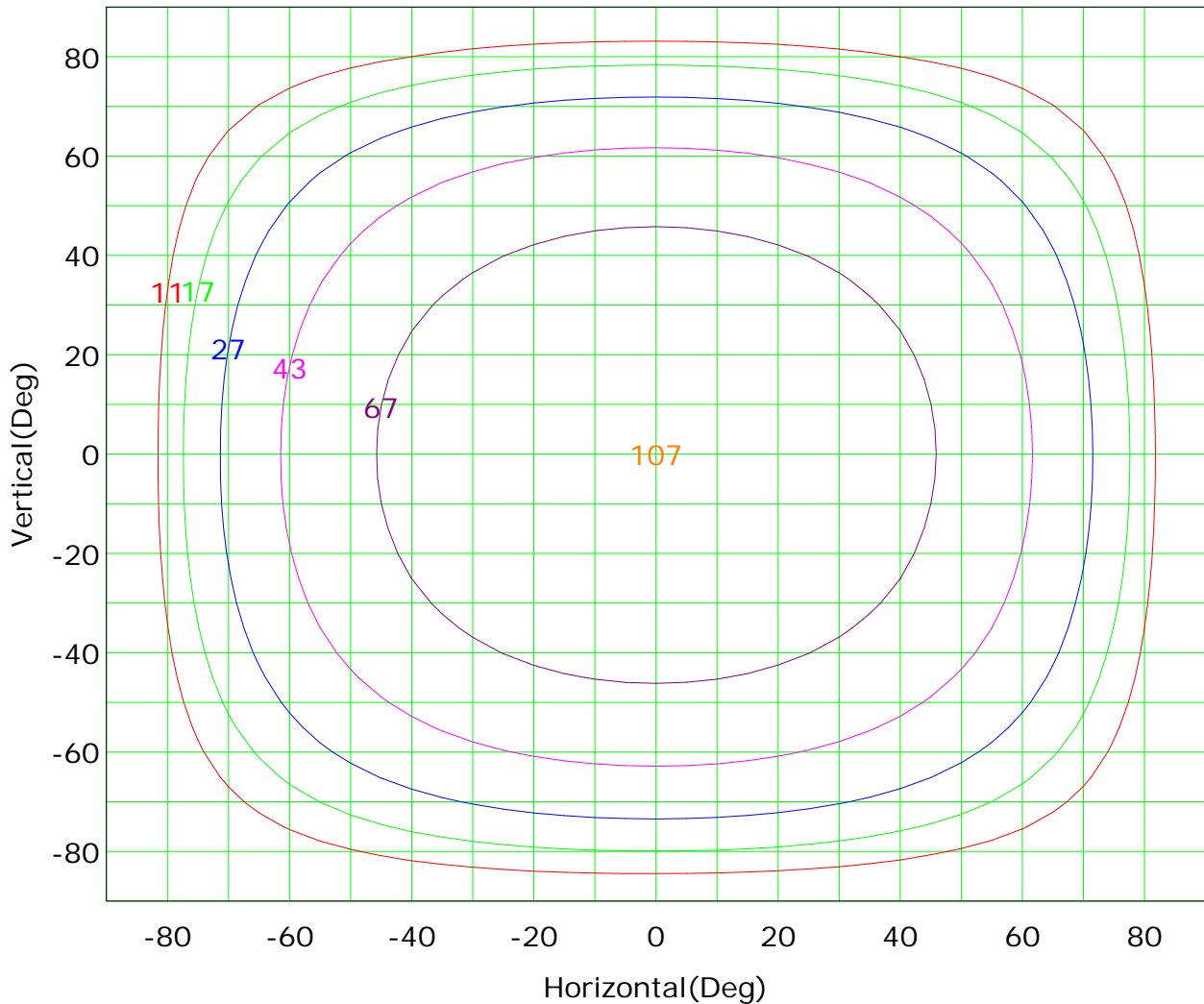


C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



Isocandela (rectangle)



Imax (100%): 107 cd

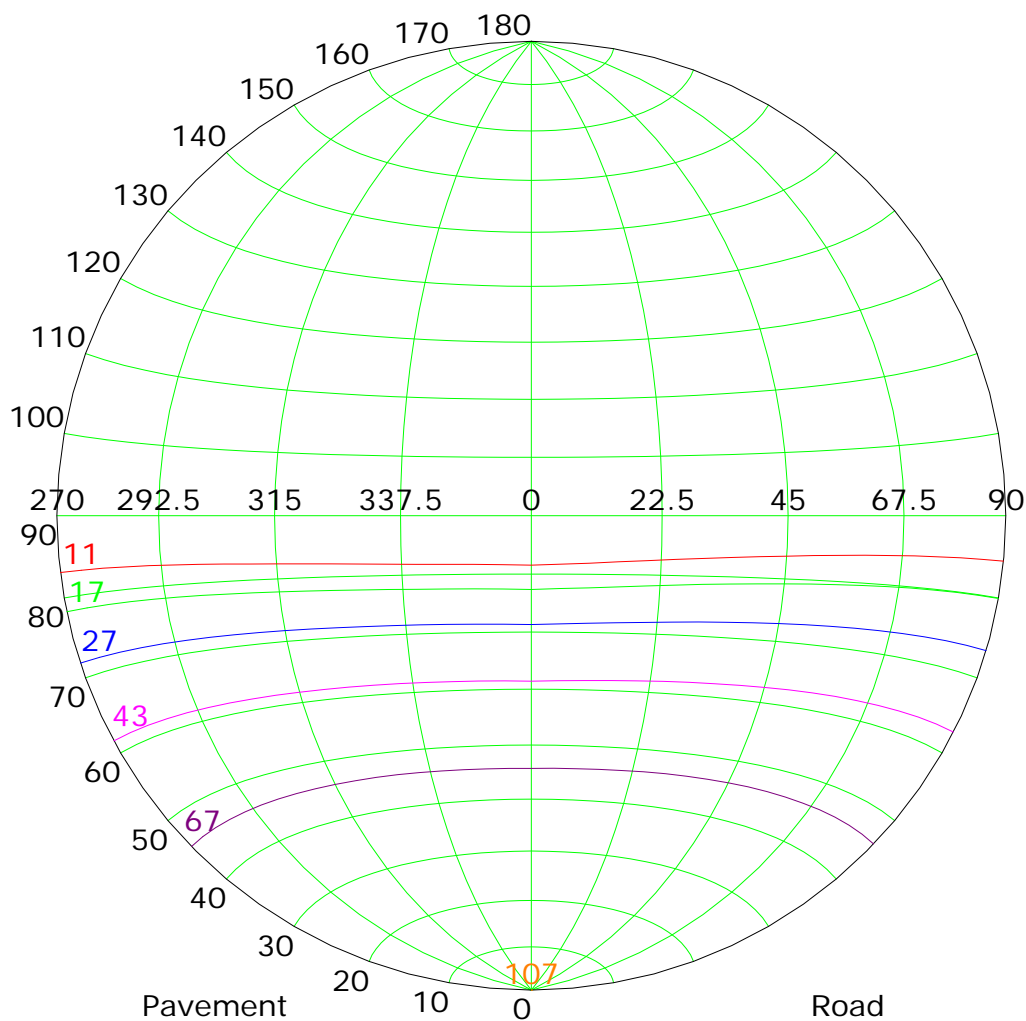
— (10%):	11 cd	— (16%):	17 cd
— (25%):	27 cd	— (40%):	43 cd
— (63%):	67 cd	— (100%):	107 cd

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%): 107 cd

— (10%):	11 cd	— (16%):	17 cd
— (25%):	27 cd	— (40%):	43 cd
— (63%):	67 cd	— (100%):	107 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

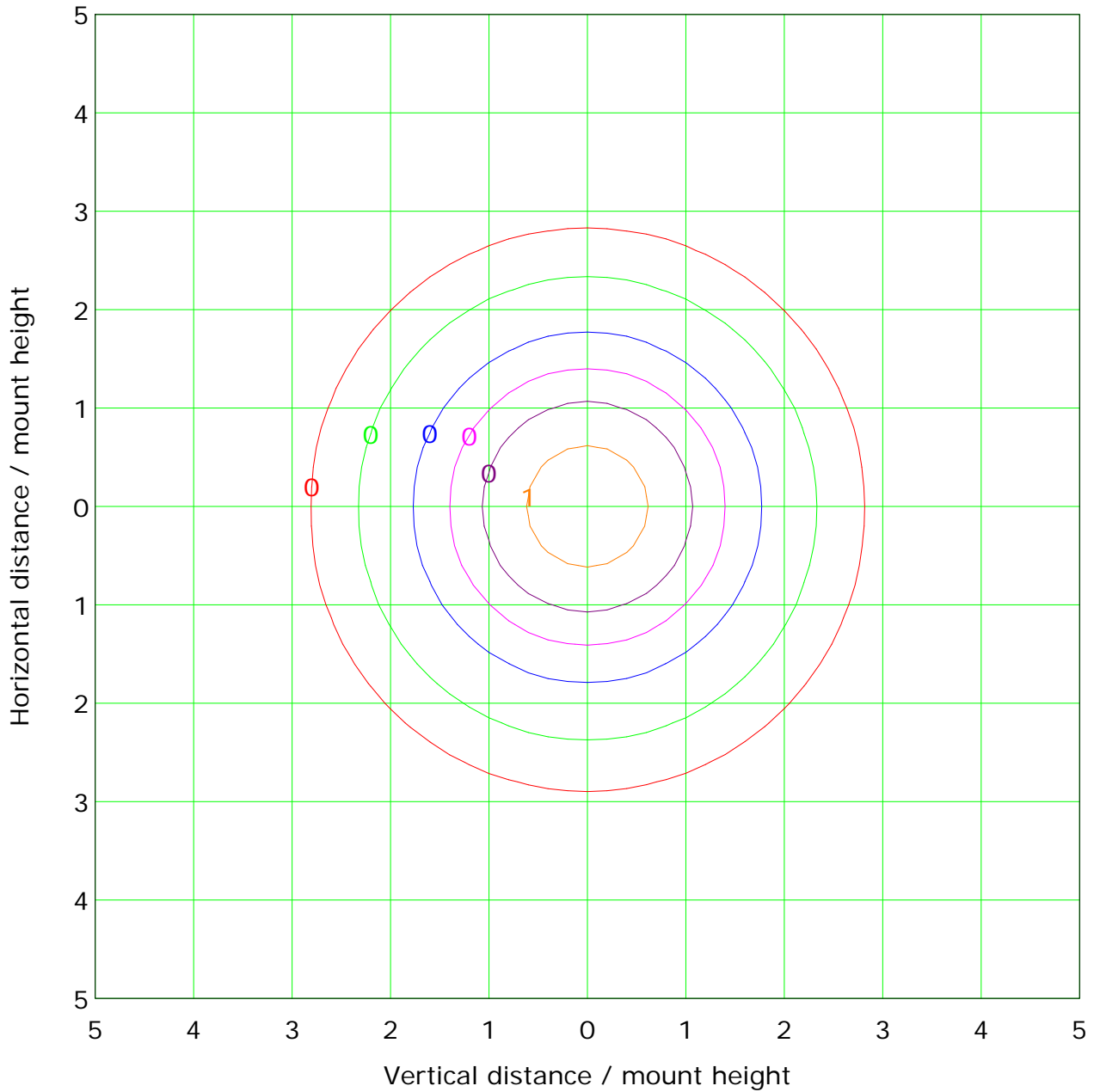
Distance: 7.970 m

Humidity:

Inspector:



IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 1.1 lx	
— (1%):	0.0 lx	— (2%):	0.0 lx
— (5%):	0.1 lx	— (10%):	0.1 lx
— (20%):	0.2 lx	— (50%):	0.5 lx
— (100%):	1.1 lx		

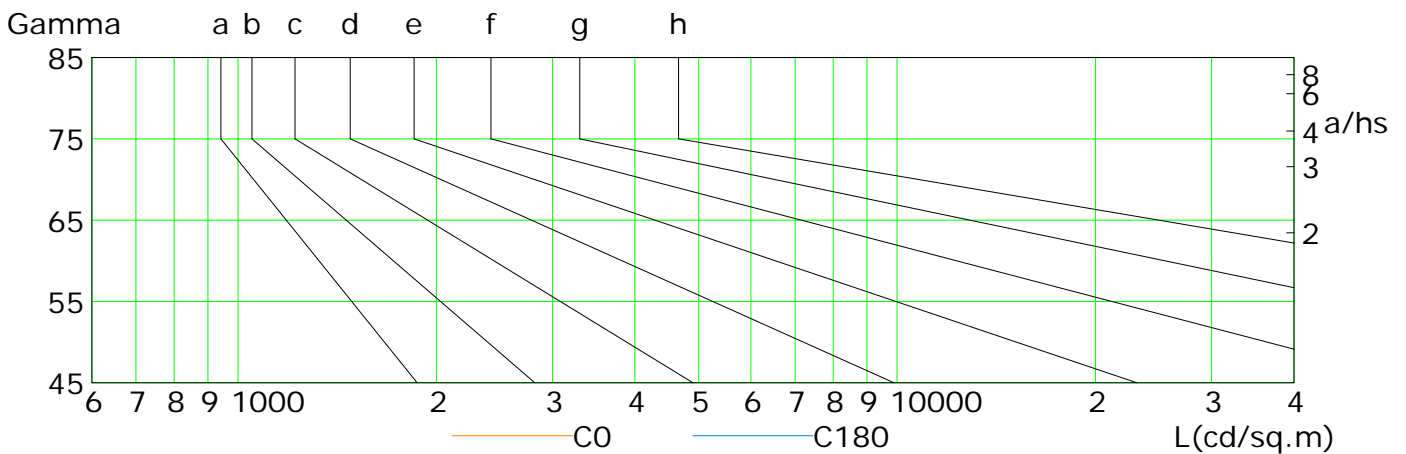
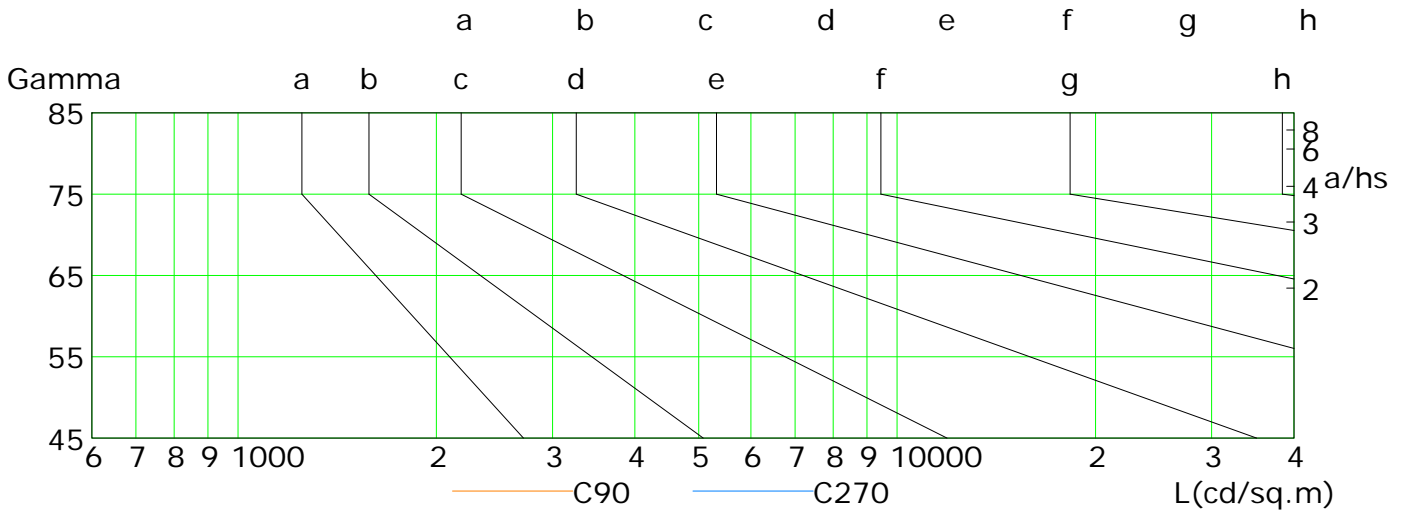
C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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	68	61	53	45	37	29	21	13	5
C90	69	62	54	47	39	32	24	17	10
C180	69	61	53	45	37	29	21	13	6
C270	68	61	53	45	37	30	22	15	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

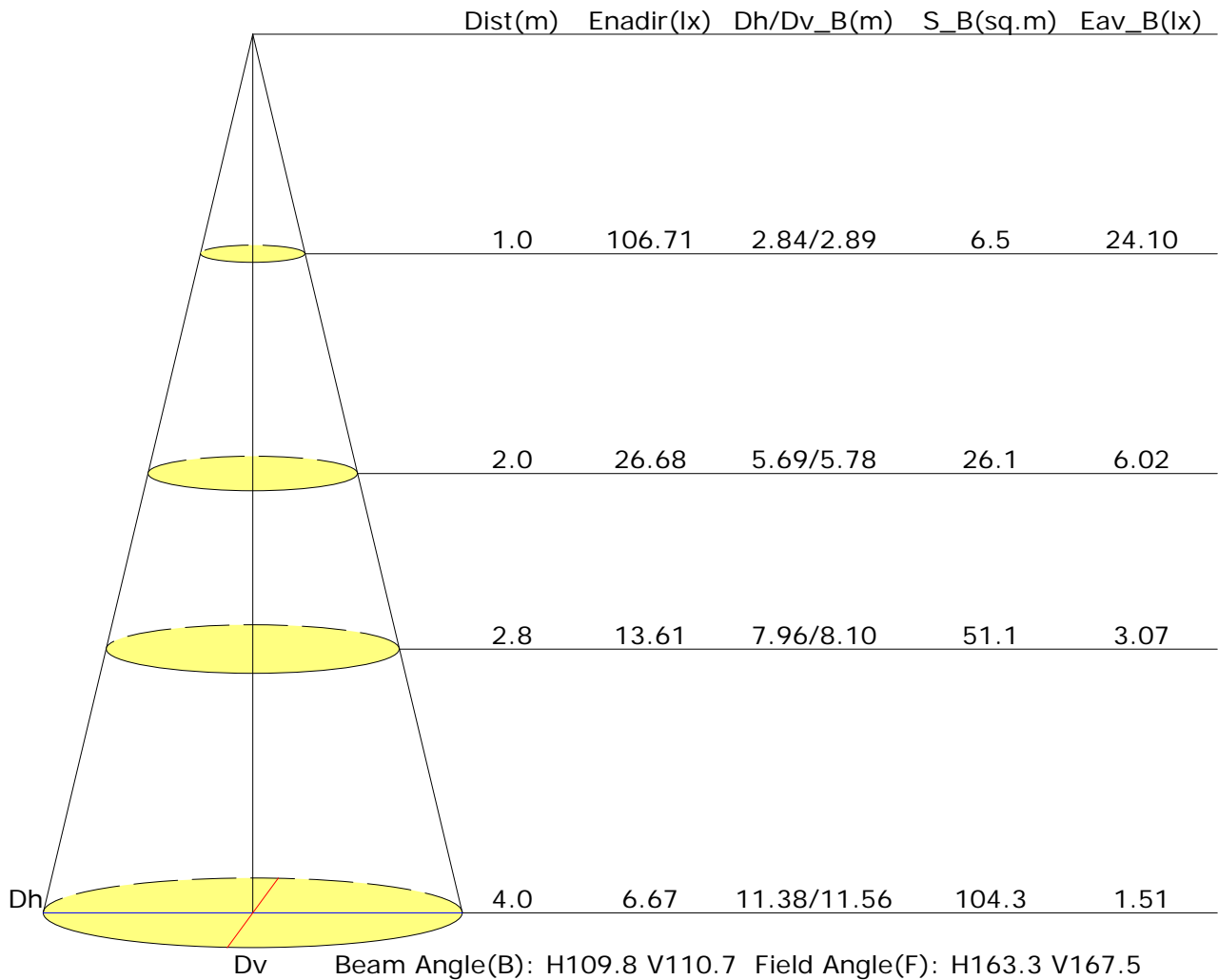
Distance: 7.970 m

Humidity:

Inspector:

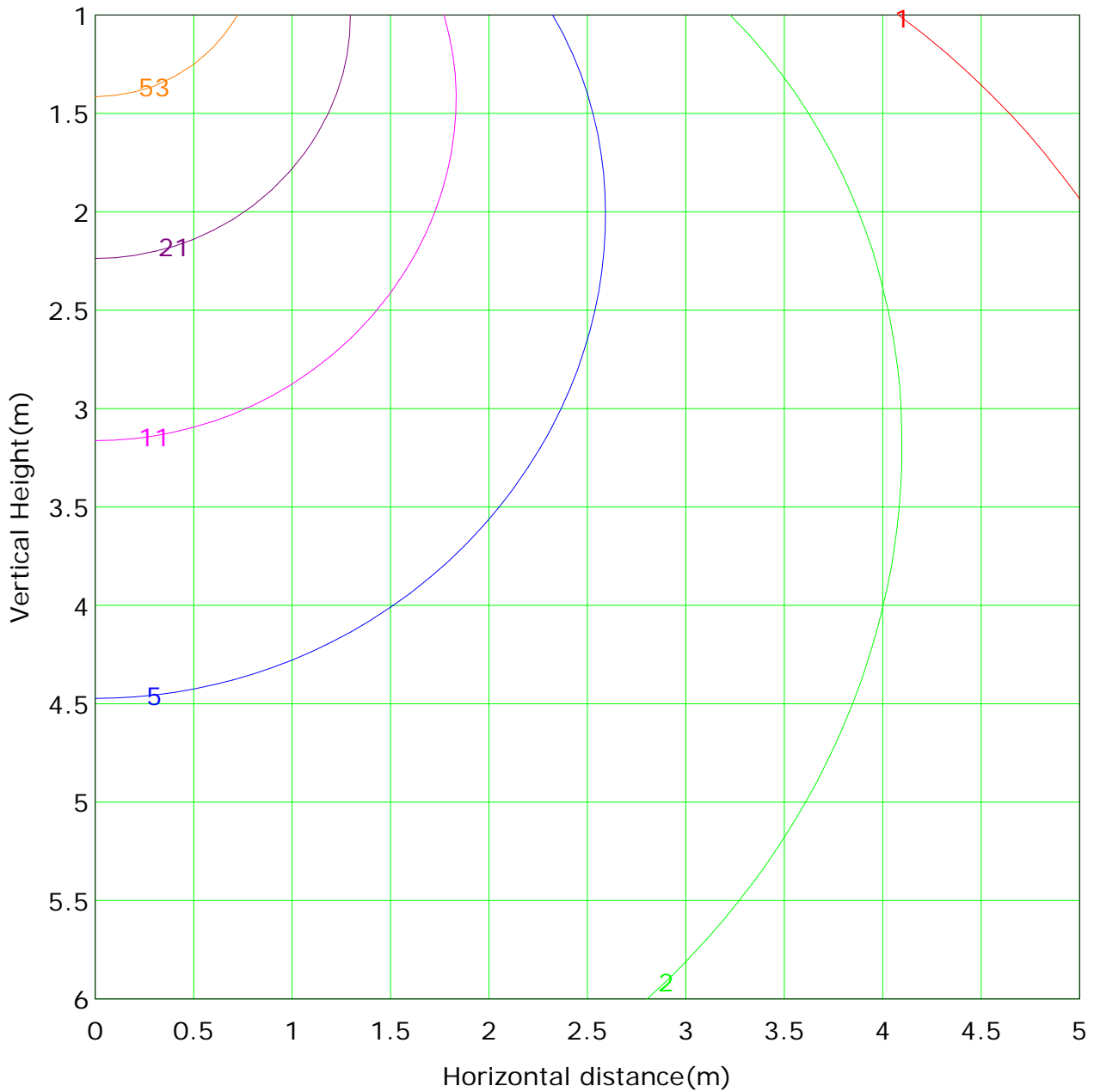


Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 6.0m	Max Lux: 106.7 lx
(1%): 1.1 lx	(2%): 2.1 lx	
(5%): 5.3 lx	(10%): 10.7 lx	
(20%): 21.3 lx	(50%): 53.4 lx	
(100%): 106.7 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: