



Report No.:

Test Time: 04/10/2018 10:00

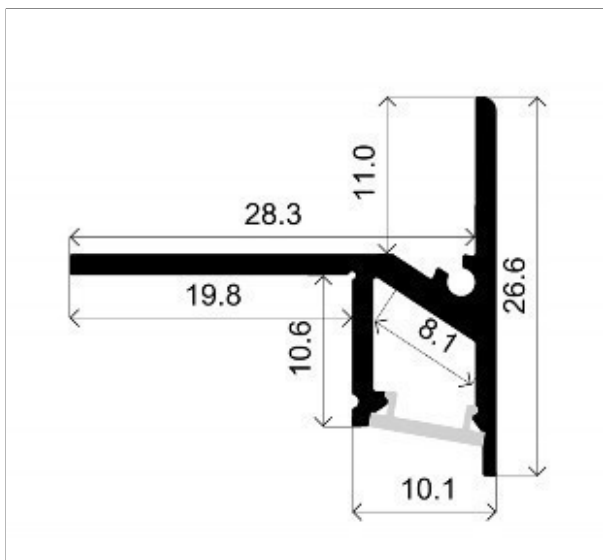
Luminaire Property

Luminaire Manufacturer: Lighting Line
 Luminaire Description: LLP-ST01-02 + 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

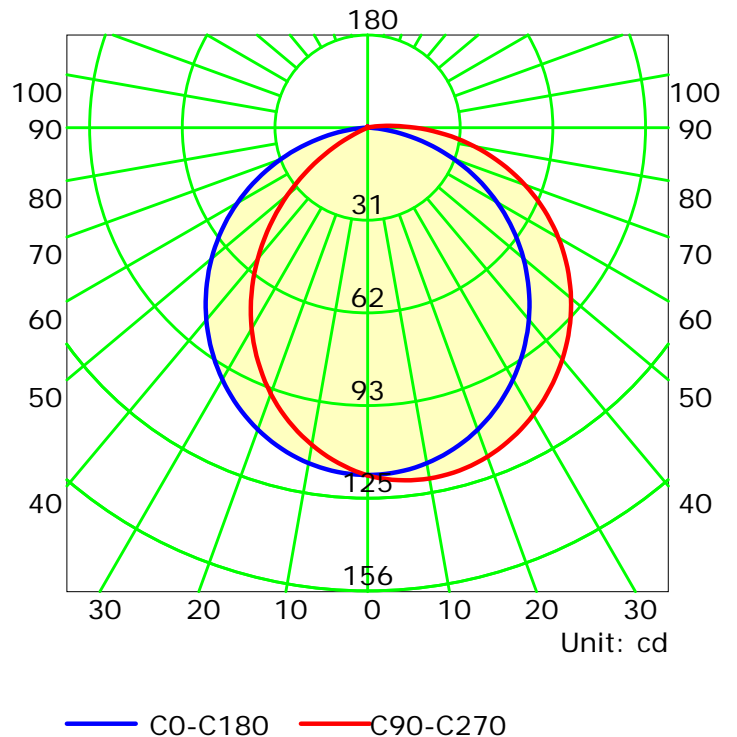
Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 1000.0 lm
Measurement Flux: 324.9 lm	Efficiency: 32.49%
Downward Ratio: 32.17%	Upward Ratio: 0.32%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.8, 152.7, 155.0, 155.2	
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.4, 107.0, 108.1, 108.3	
Luminaire Efficacy Rating (LER): 36.40	Central Intensity: 117.2 cd
Max. Intensity: 120.21 cd	Pos of Max. Intensity: H90 V10
S/MH(C0/C180): 1.24	S/MH(C90/C270): 1.21

Picture Of Luminaire



Luminous Intensity Distribution Curve

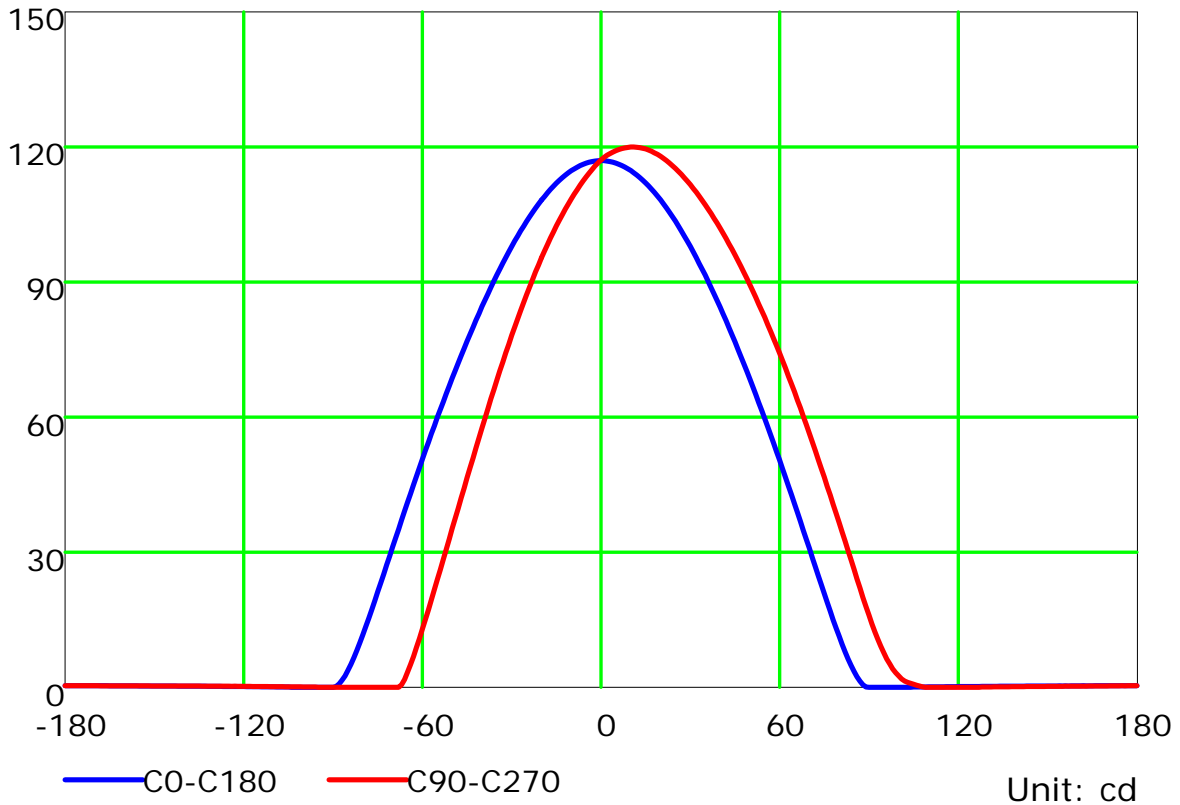
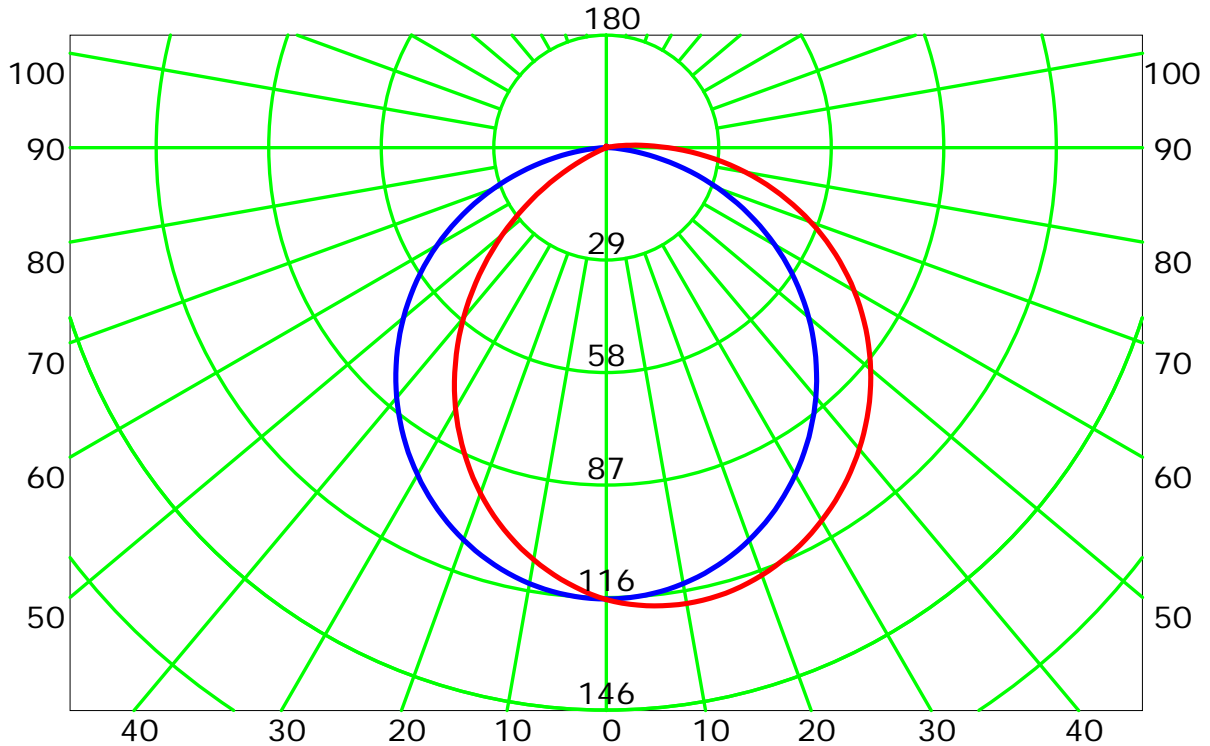


C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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



Luminous Intensity Distribution Curve

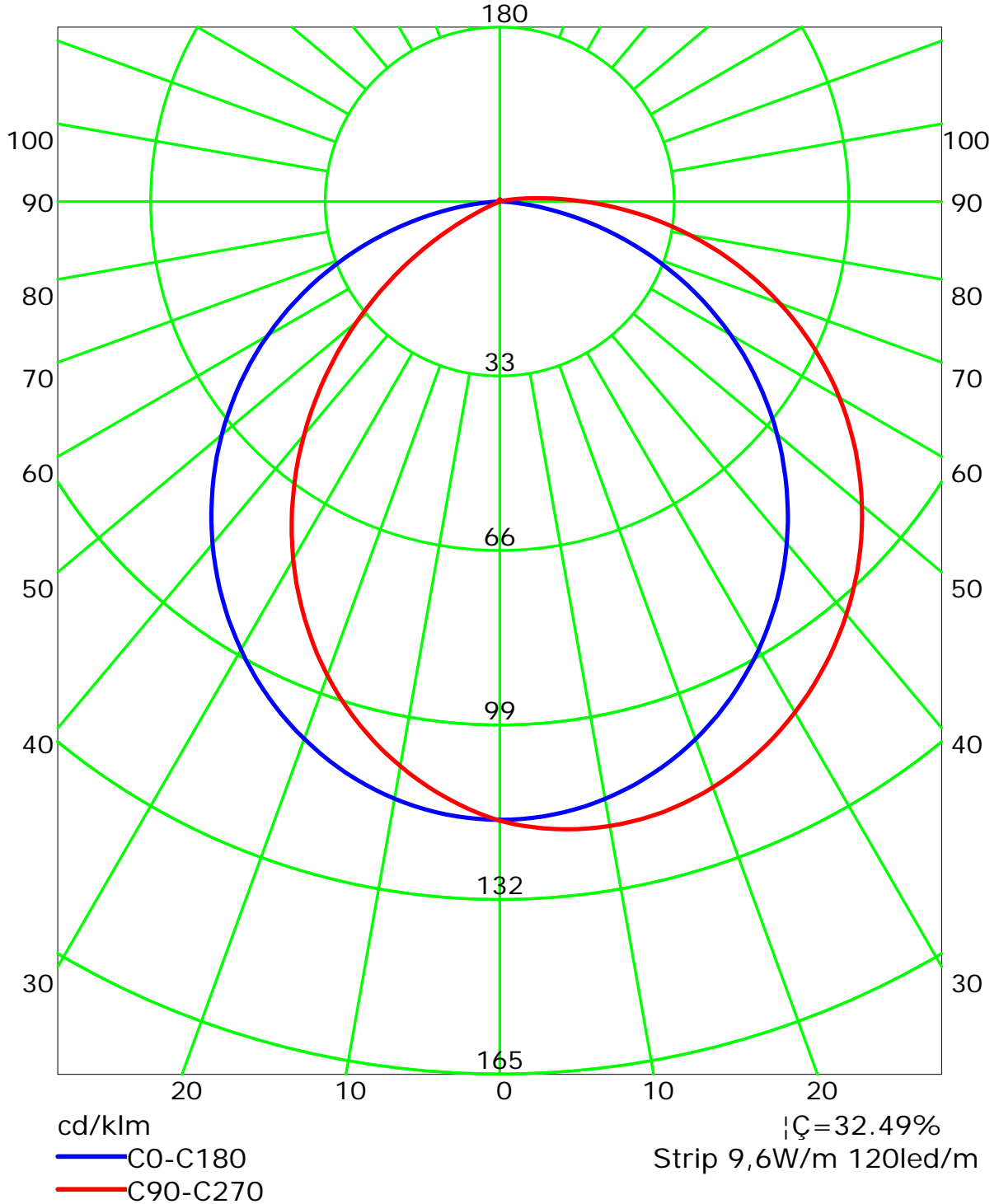


C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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



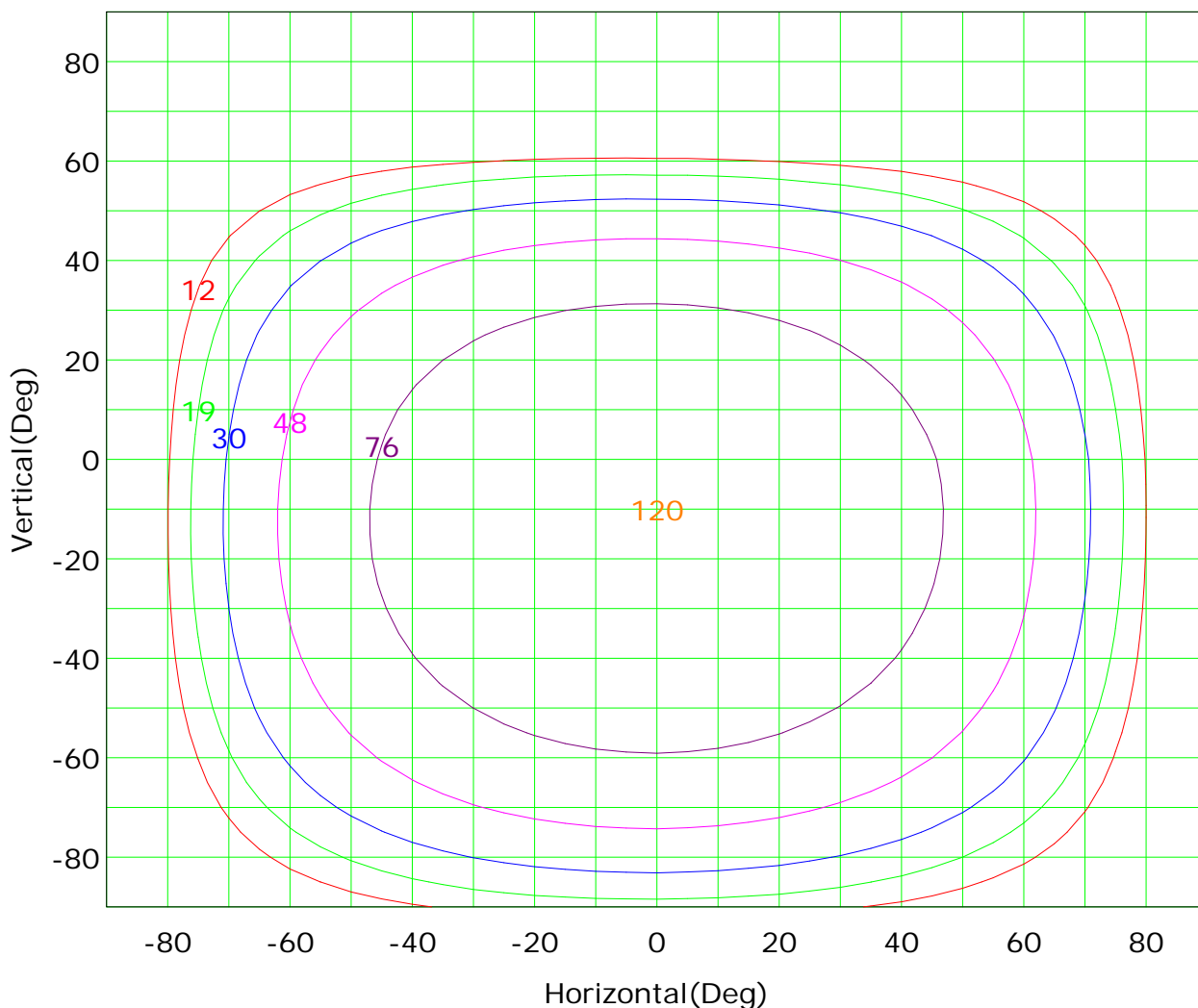
Luminous Intensity Distribution Curve(cd/klm)



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%): 120 cd

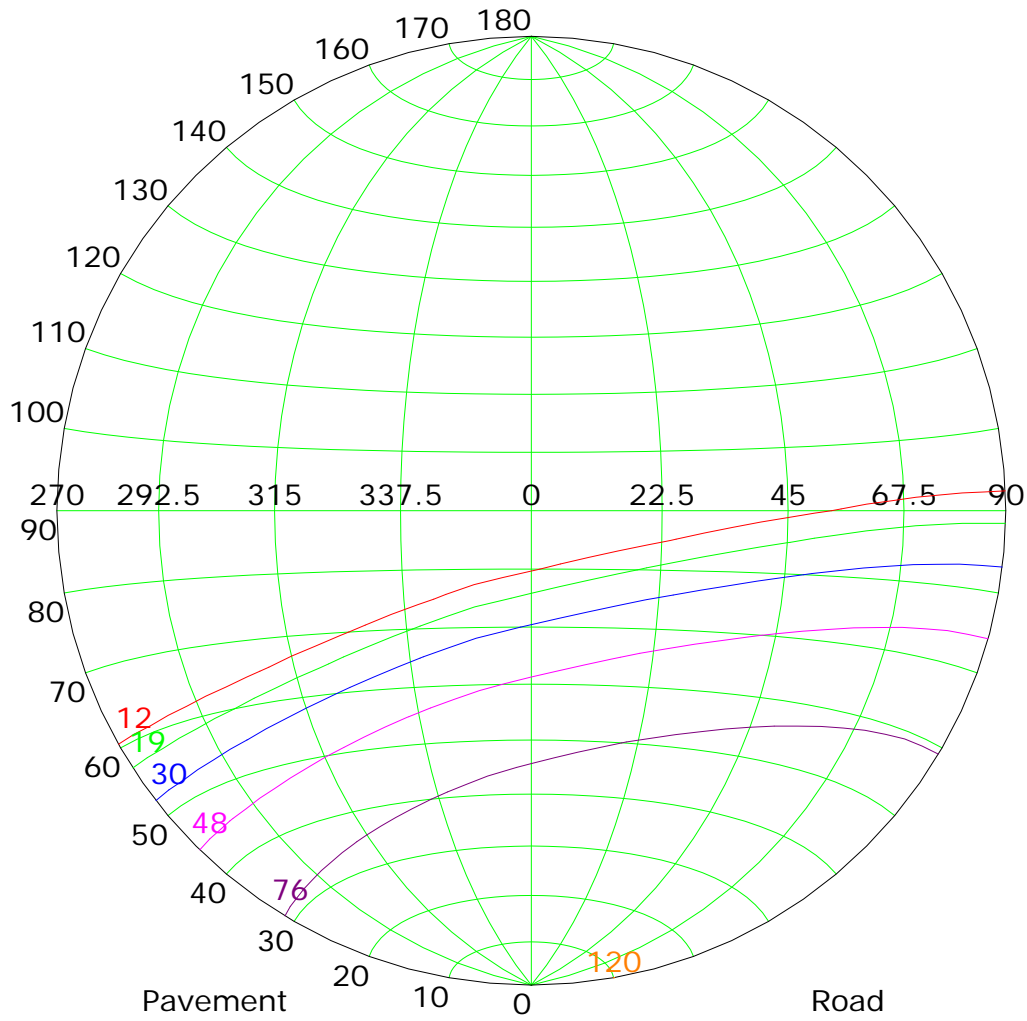
— (10%):	12 cd	— (16%):	19 cd
— (25%):	30 cd	— (40%):	48 cd
— (63%):	76 cd	— (100%):	120 cd

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%): 120 cd

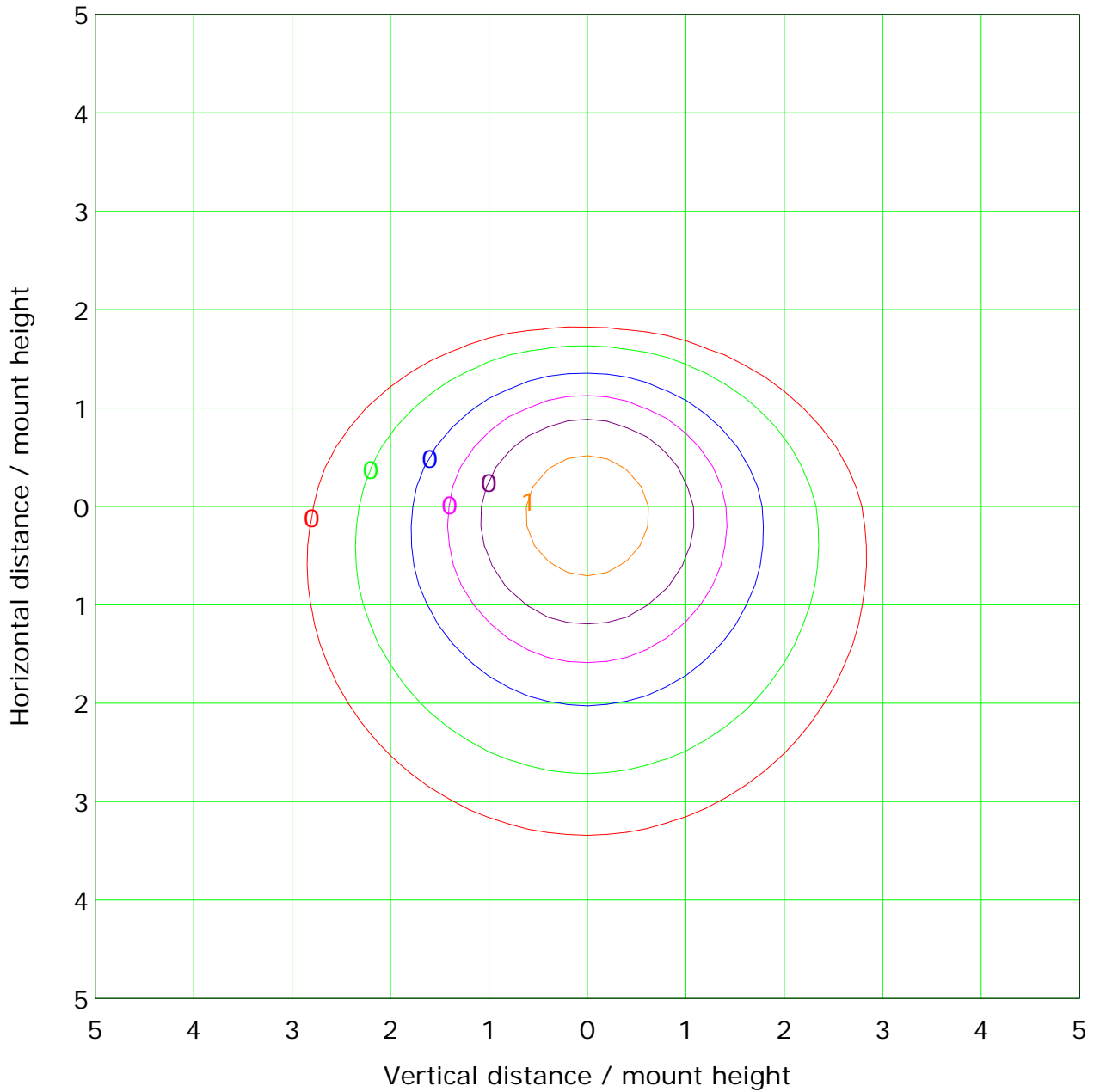
— (10%):	12 cd	— (16%):	19 cd
— (25%):	30 cd	— (40%):	48 cd
— (63%):	76 cd	— (100%):	120 cd

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		

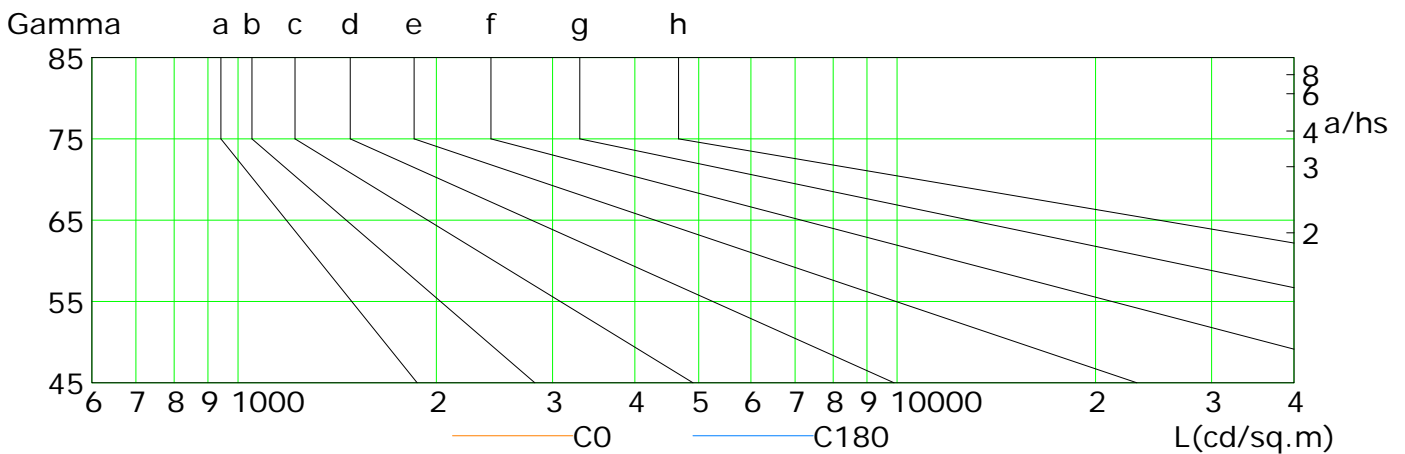
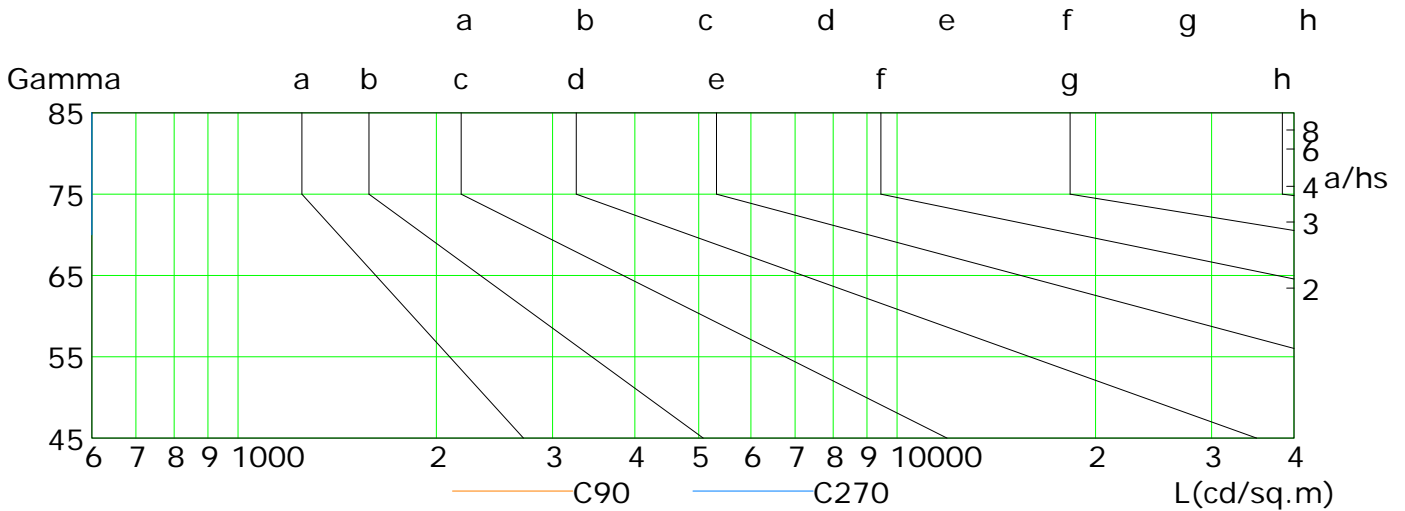
C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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



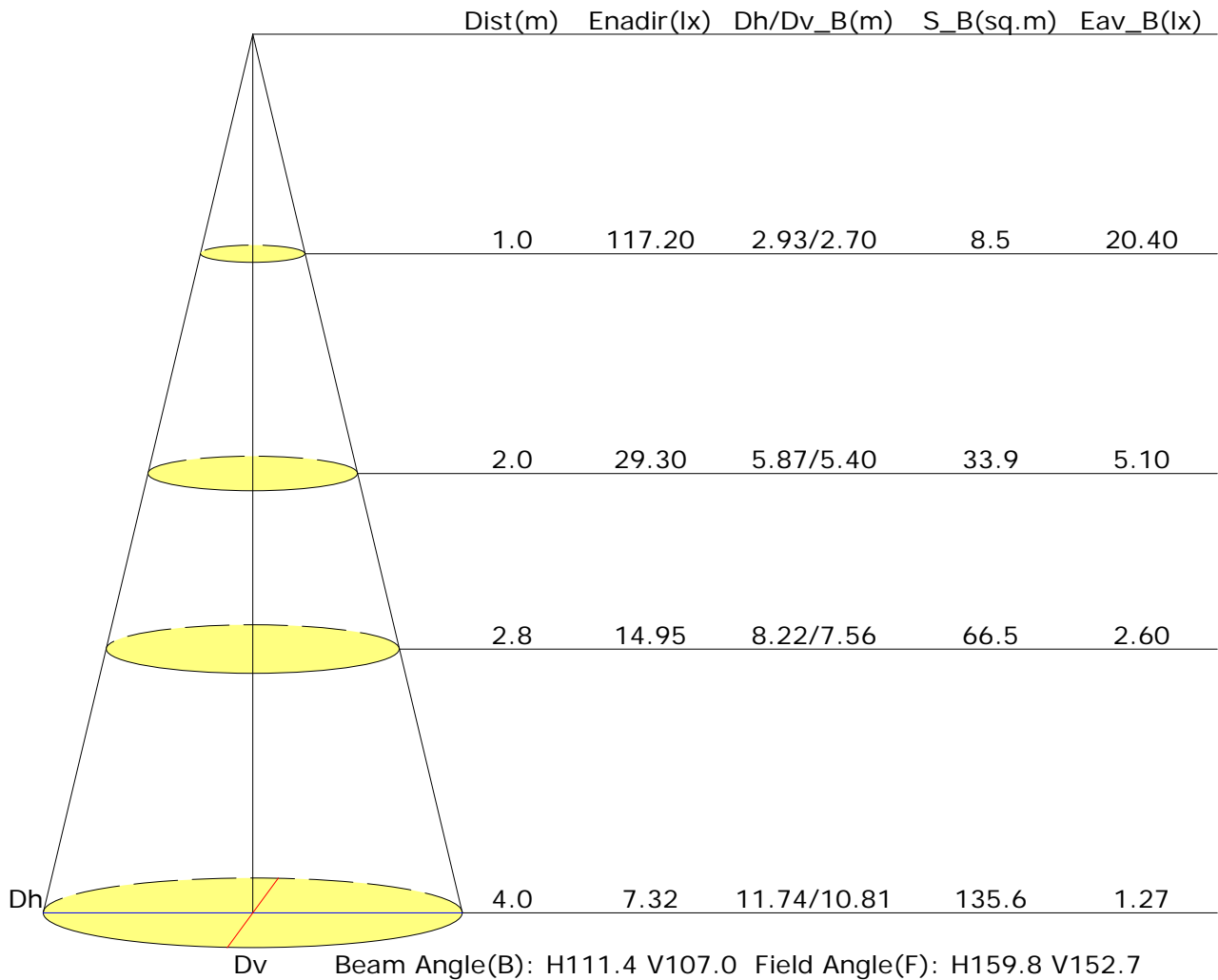
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	77	69	60	51	41	31	21	11	4
C90	96	90	82	74	66	56	47	37	26
C180	77	69	60	51	41	31	21	12	4
C270	47	35	24	13	3	0	0	0	0

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:

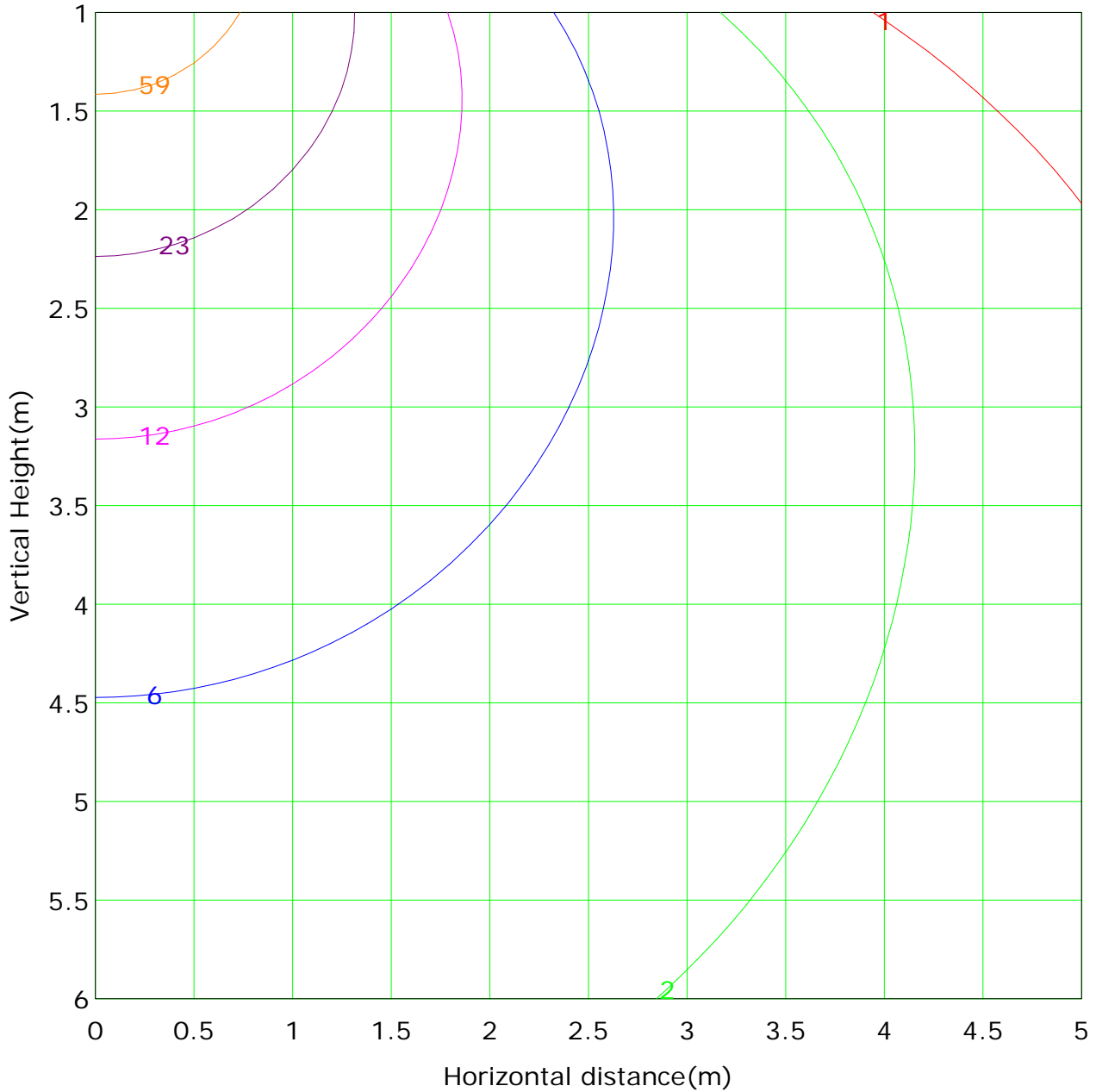


Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 6.0m	Max Lux: 117.2 lx
(1%): 1.2 lx	(2%): 2.3 lx	
(5%): 5.9 lx	(10%): 11.7 lx	
(20%): 23.4 lx	(50%): 58.6 lx	
(100%): 117.2 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:



Report No.:

Test Time: 04/10/2018 11:01

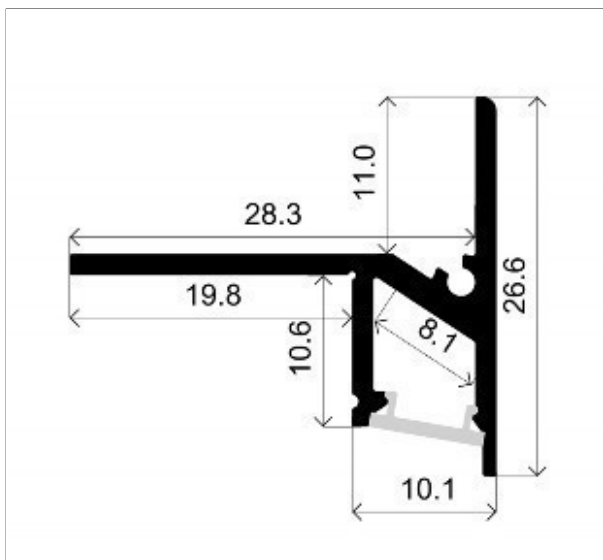
Luminaire Property

Luminaire Manufacturer: Lighting Line
 Luminaire Description: LLP-ST01-02 + 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

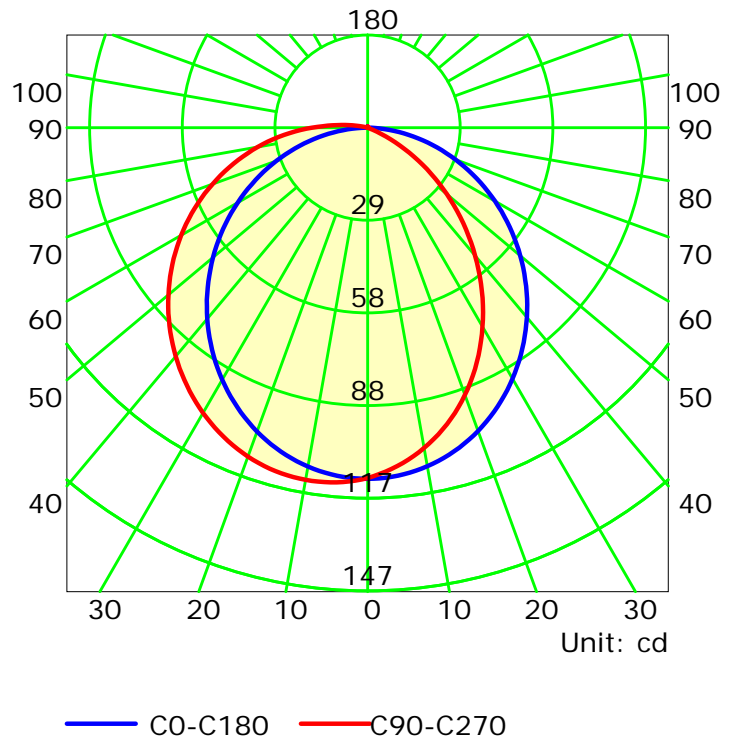
Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 1000.0 lm
Measurement Flux: 307.3 lm	Efficiency: 30.73%
Downward Ratio: 30.34%	Upward Ratio: 0.39%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.2, 155.1, 157.5, 157.8	
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.8, 105.6, 106.5, 106.6	
Luminaire Efficacy Rating (LER): 34.50	Central Intensity: 111.68 cd
Max. Intensity: 113.74 cd	Pos of Max. Intensity: H270 V9
S/MH(C0/C180): 1.23	S/MH(C90/C270): 1.19

Picture Of Luminaire



Luminous Intensity Distribution Curve

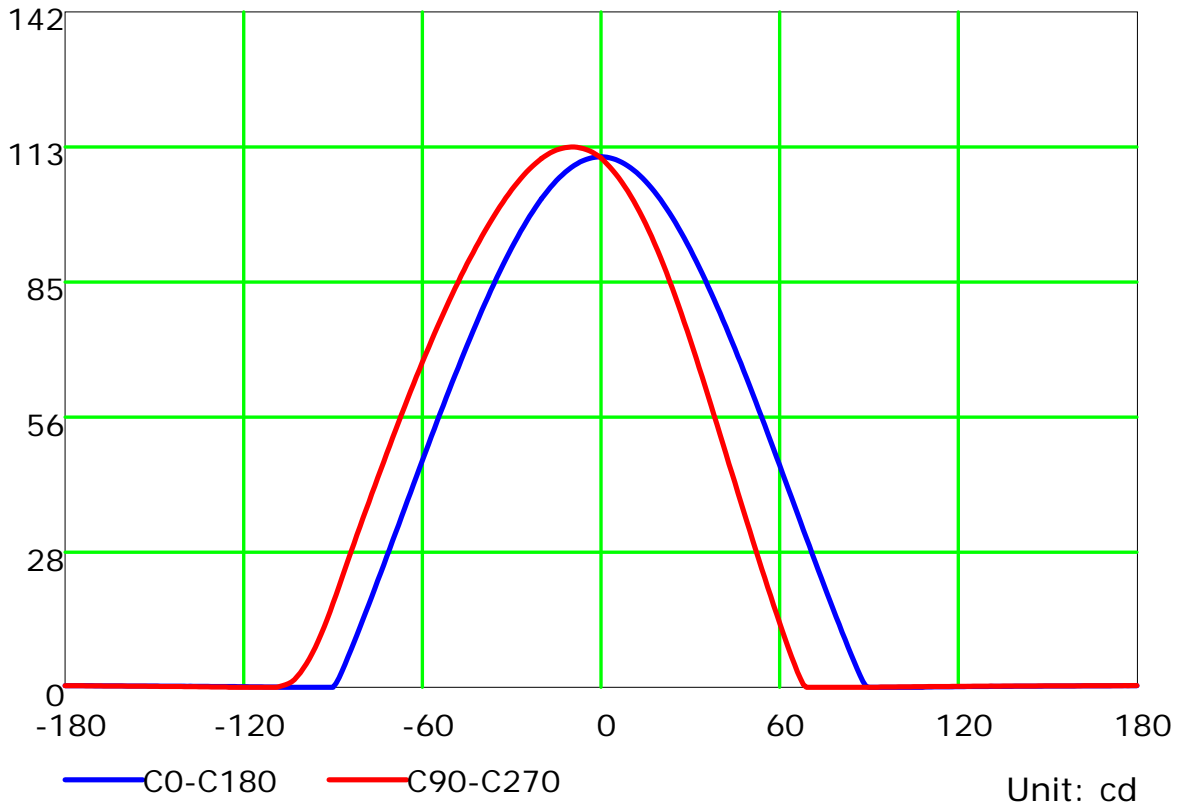
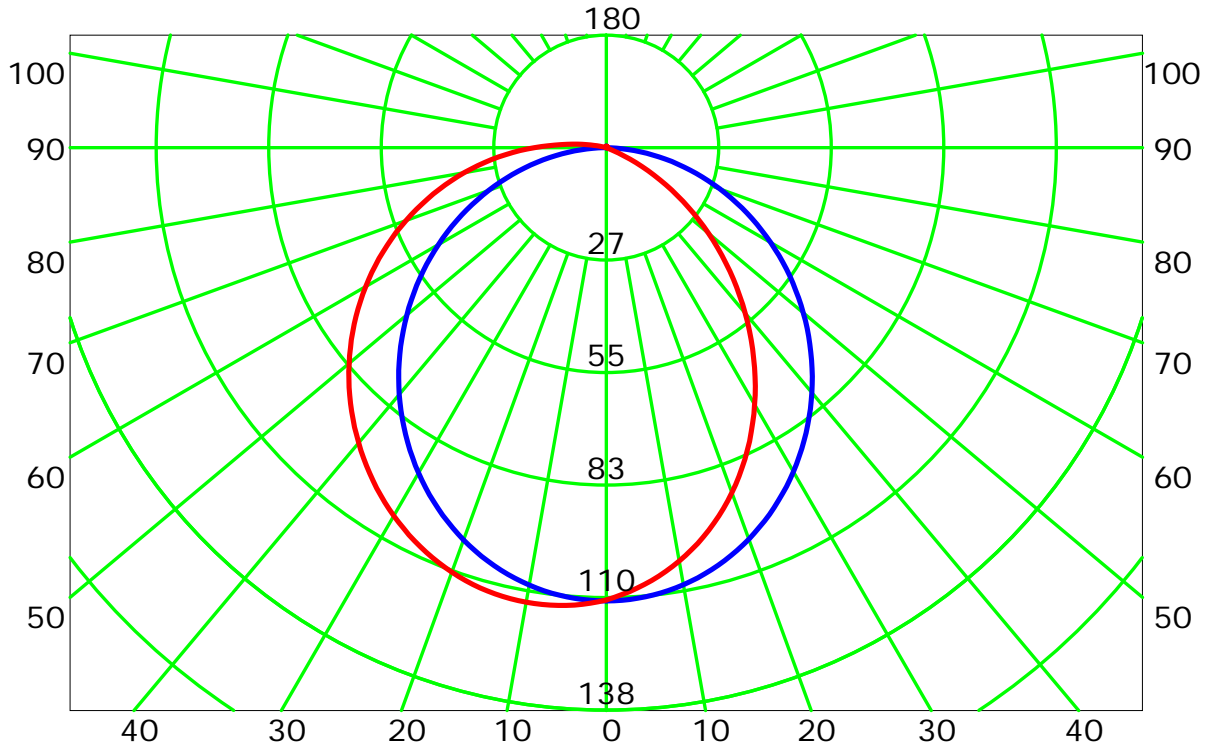


C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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



Luminous Intensity Distribution Curve

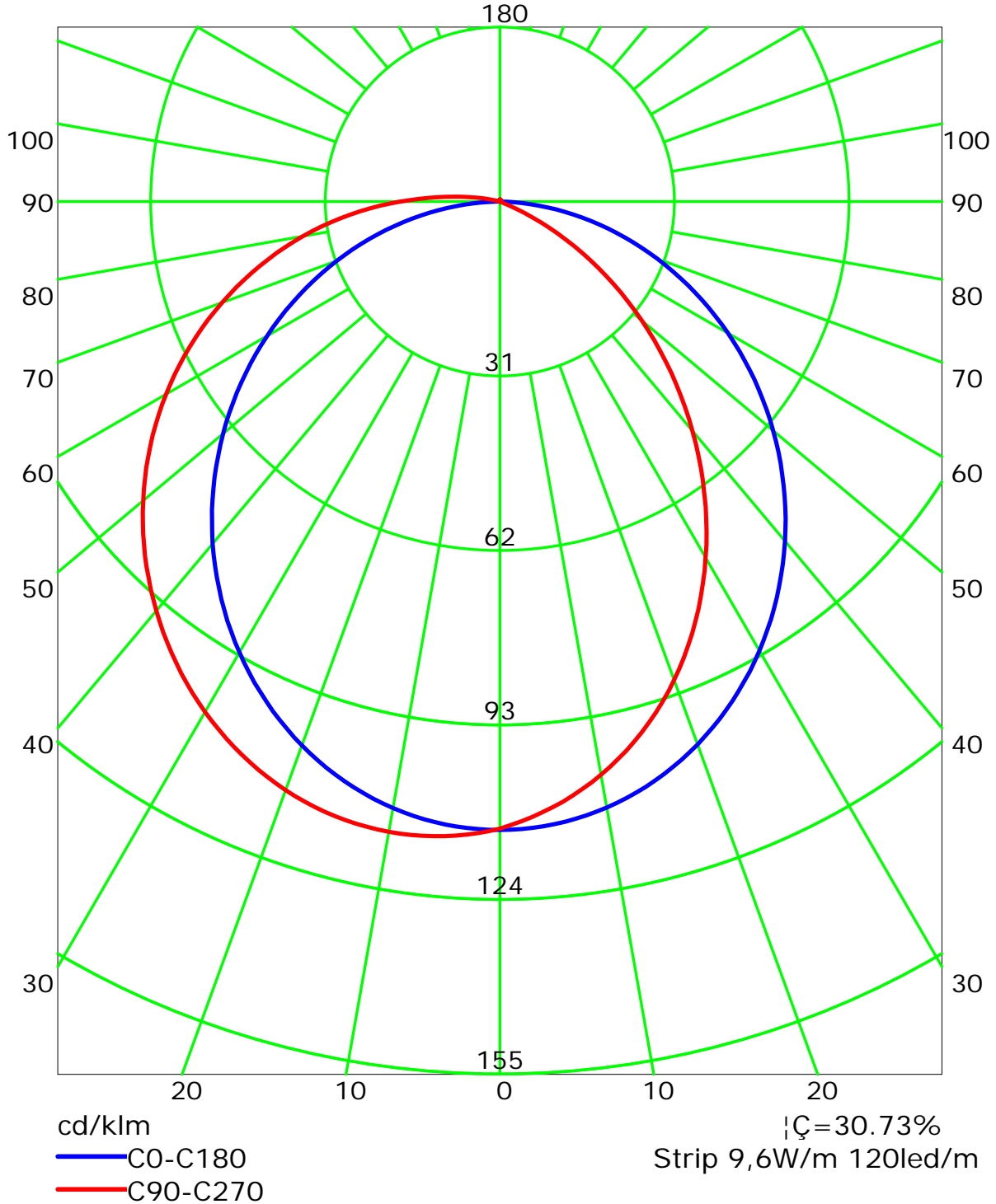


C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



Luminous Intensity Distribution Curve(cd/klm)

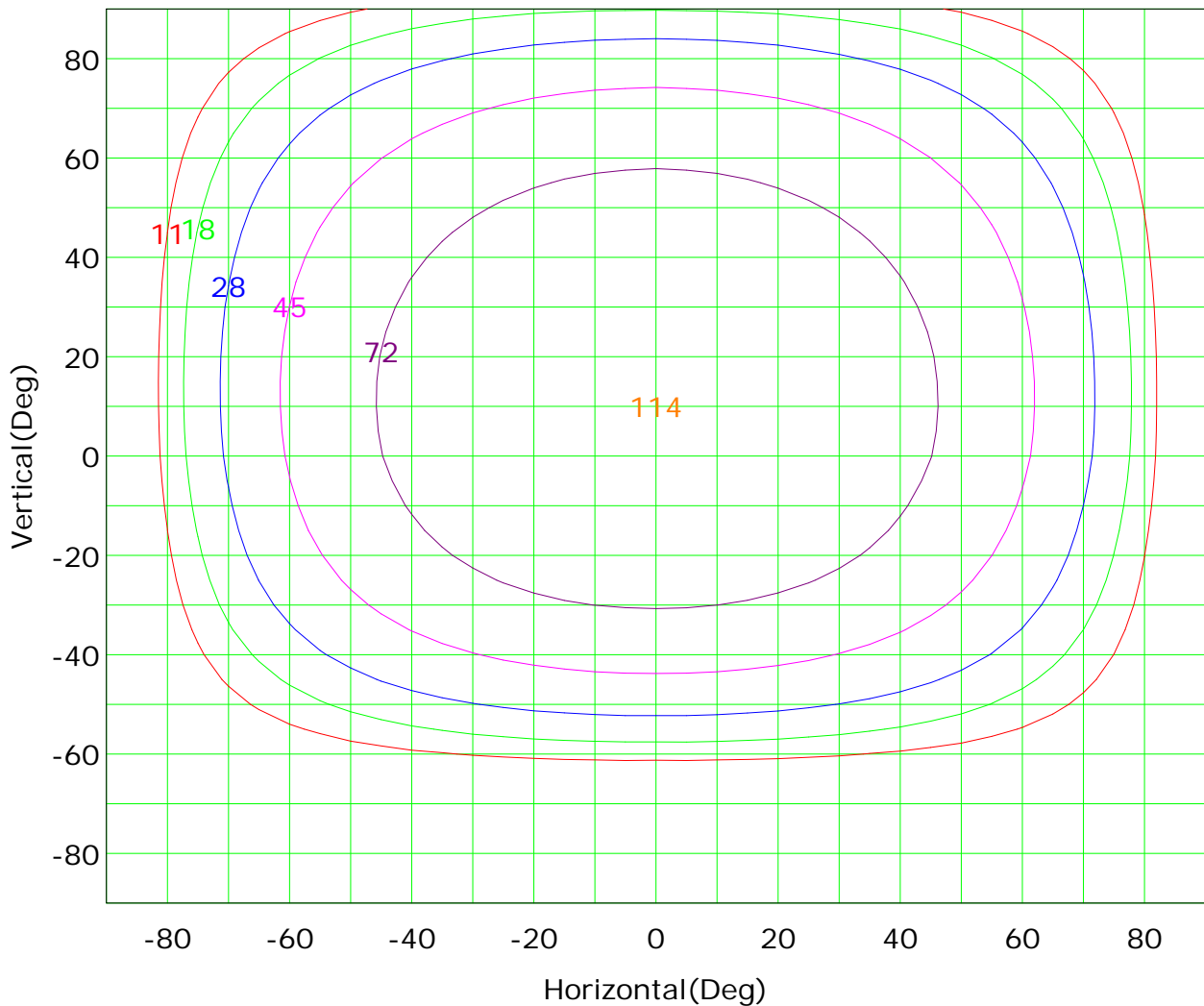


C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



Isocandela (rectangle)



Imax (100%): 114 cd

— (10%):	11 cd	— (16%):	18 cd
— (25%):	28 cd	— (40%):	45 cd
— (63%):	72 cd	— (100%):	114 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

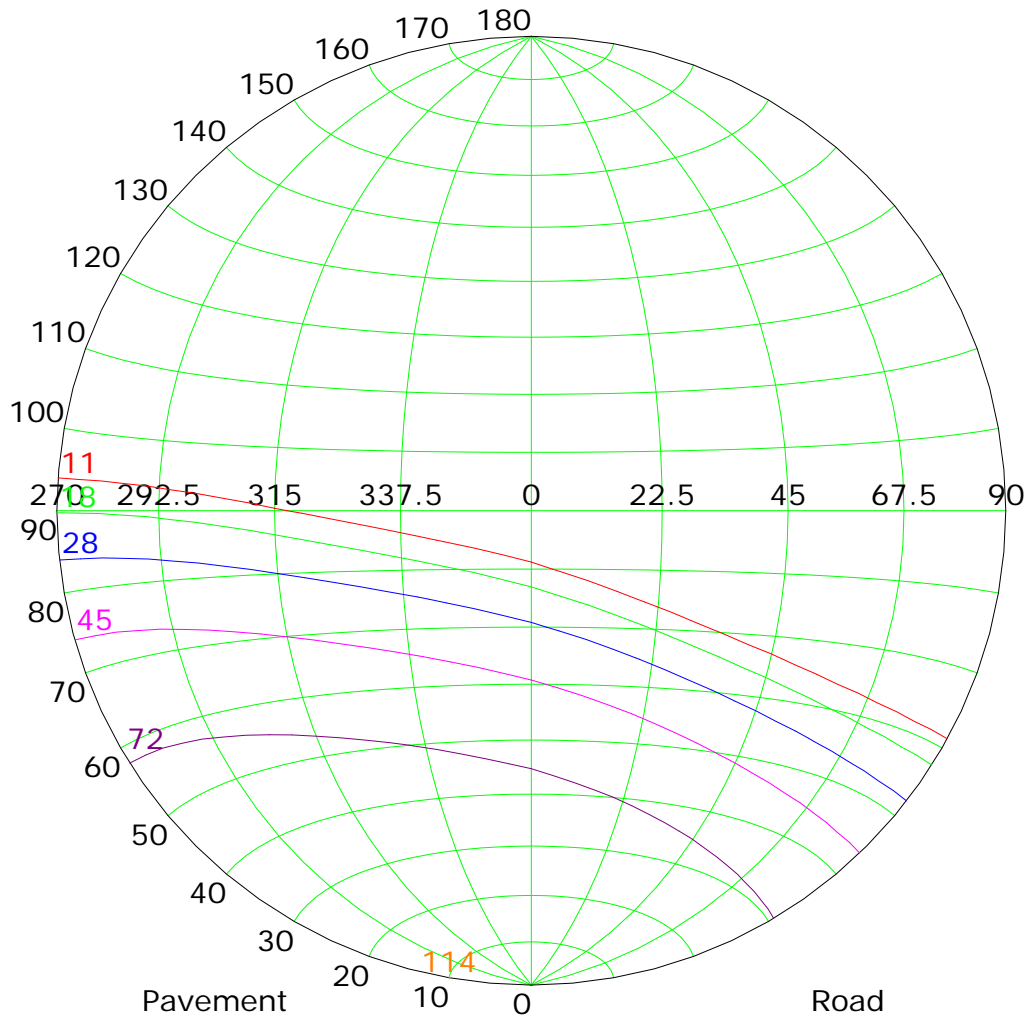
Distance: 7.970 m

Humidity:

Inspector:



Isocandela (sphere)



Imax (100%): 114 cd

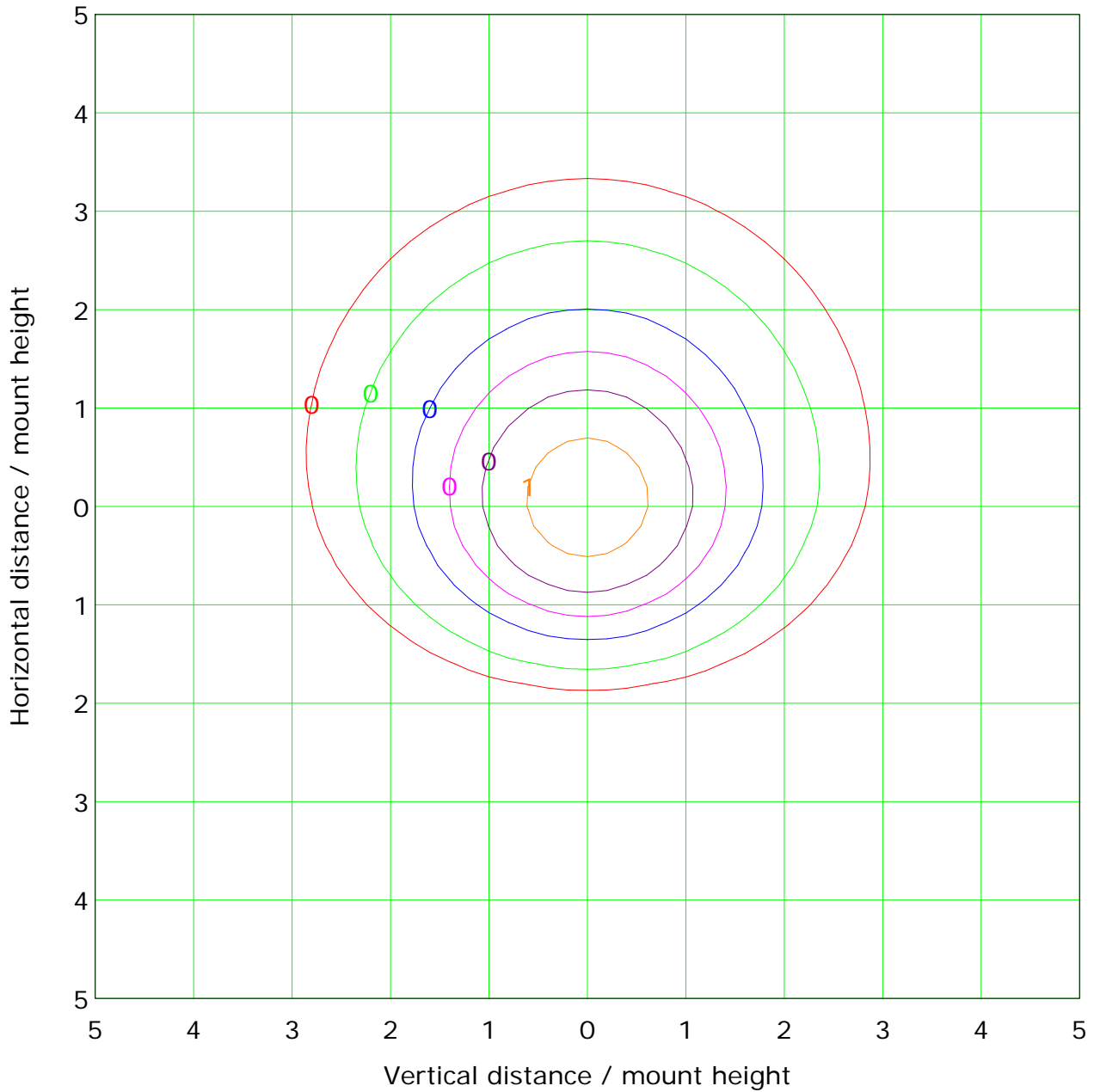
— (10%):	11 cd	— (16%):	18 cd
— (25%):	28 cd	— (40%):	45 cd
— (63%):	72 cd	— (100%):	114 cd

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		

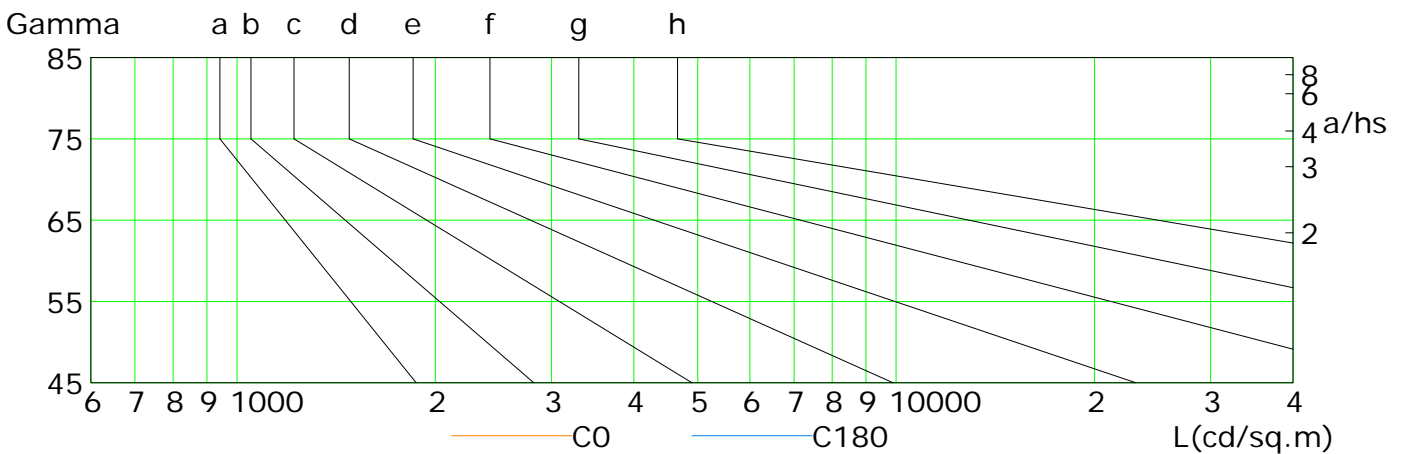
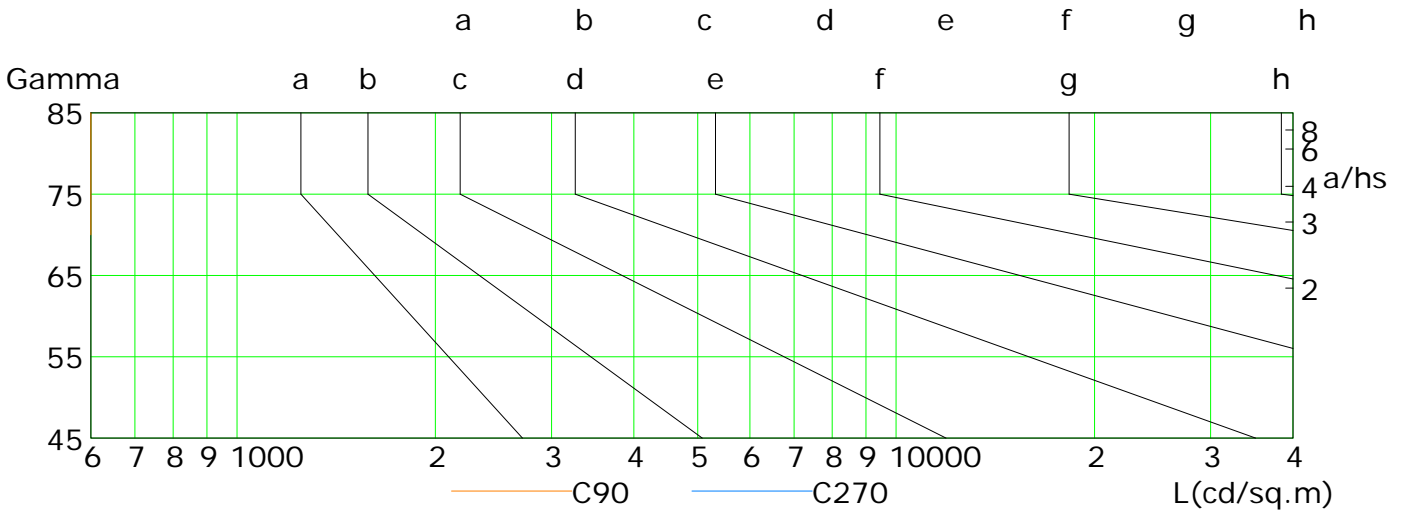
C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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	71	63	55	47	38	30	21	13	5
C90	43	33	23	14	5	0	0	0	0
C180	72	64	56	48	39	31	22	14	6
C270	89	83	76	68	61	53	44	36	27

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

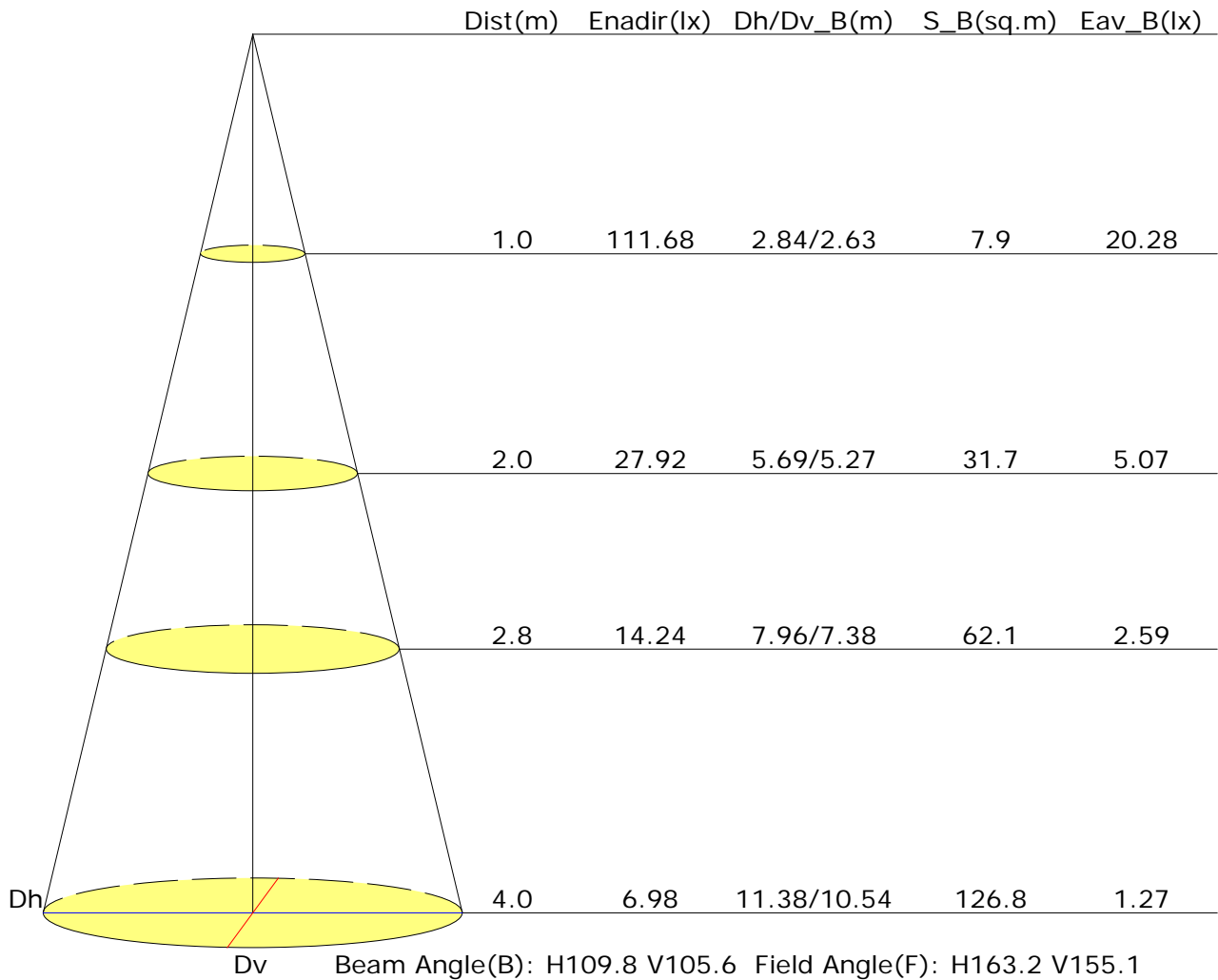
Distance: 7.970 m

Humidity:

Inspector:

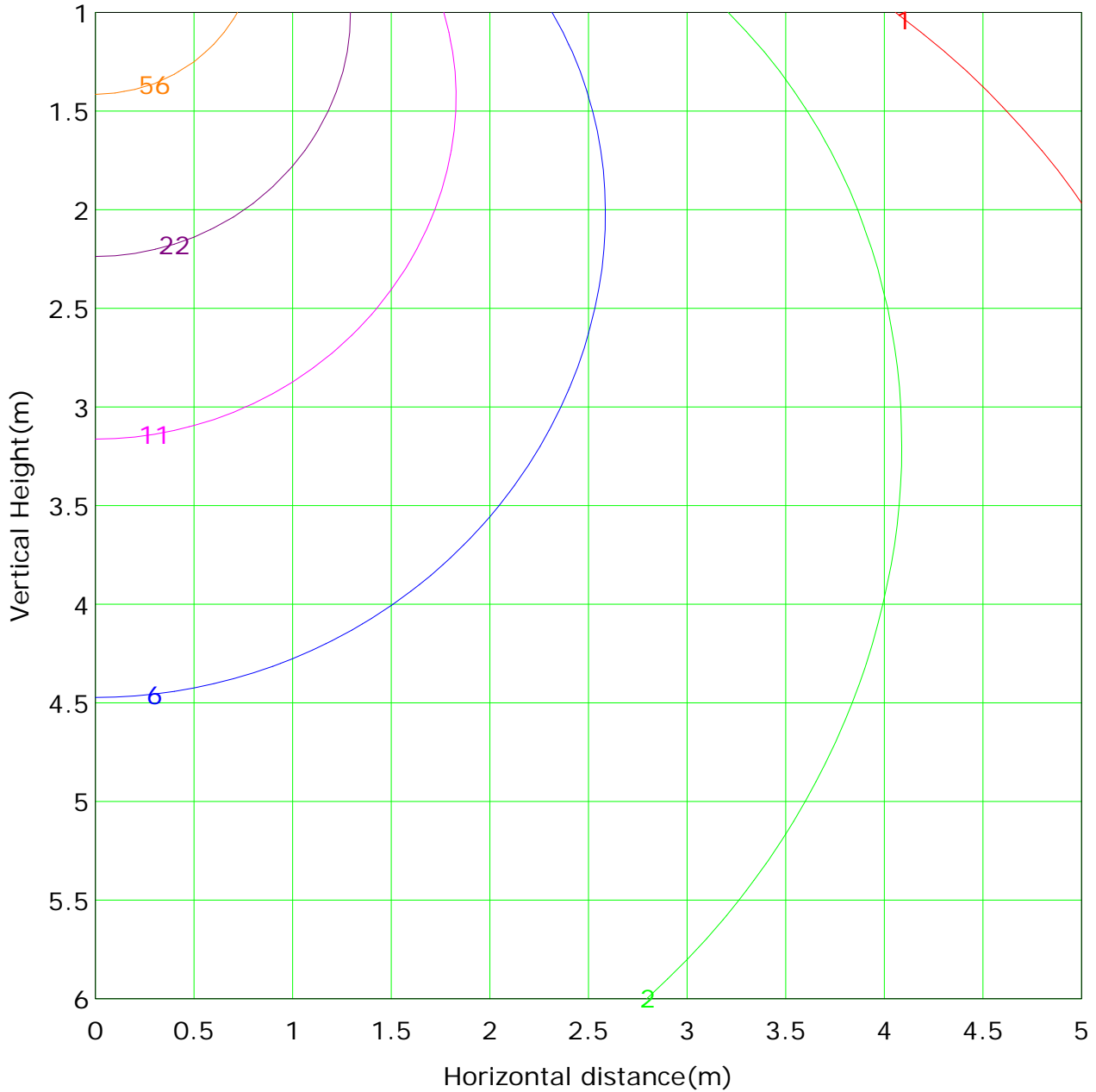


Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 6.0m	Max Lux: 111.7 lx
(1%): 1.1 lx	(2%): 2.2 lx	
(5%): 5.6 lx	(10%): 11.2 lx	
(20%): 22.3 lx	(50%): 55.8 lx	
(100%): 111.7 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: