



Report No.:

Test Time: 16/09/2019 15:18

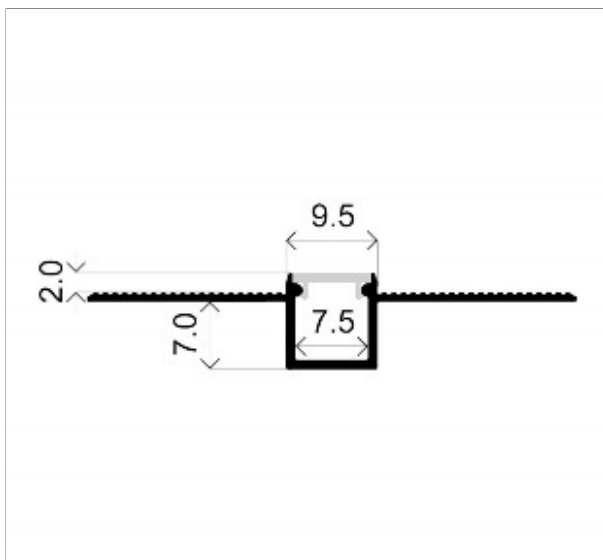
Luminaire Property

Luminaire Manufacturer: Lighting Line
 Luminaire Description: LLP-DW06-02 + LLD-02-FM
 Lamp Description: Strip 9,6W/m 120led/m Number of Lamps: 1
 Lumens per Lamp: 460 lm Voltage: 24.0 V
 Current: 0.378 A Power: 9.07 W
 Power Factor: 1.000

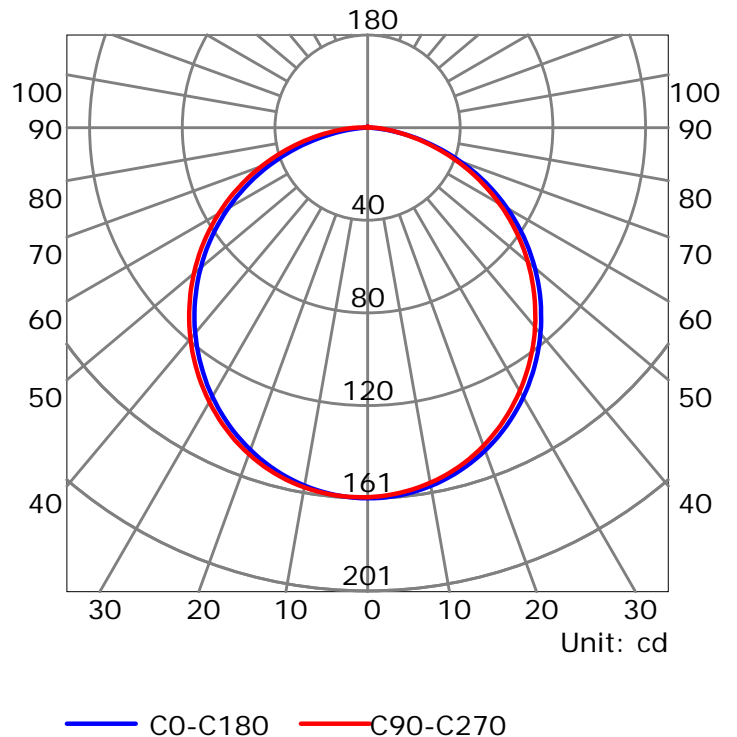
Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 460.0 lm
Measurement Flux: 460 lm	Efficiency: 99.99%
Downward Ratio: 99.53%	Upward Ratio: 0.46%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.9, 163.1, 161.7, 161.7	
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.8, 112.1, 112.2, 112.2	
Luminaire Efficacy Rating (LER): 50.76	Central Intensity: 161.04 cd
Max. Intensity: 161.04 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

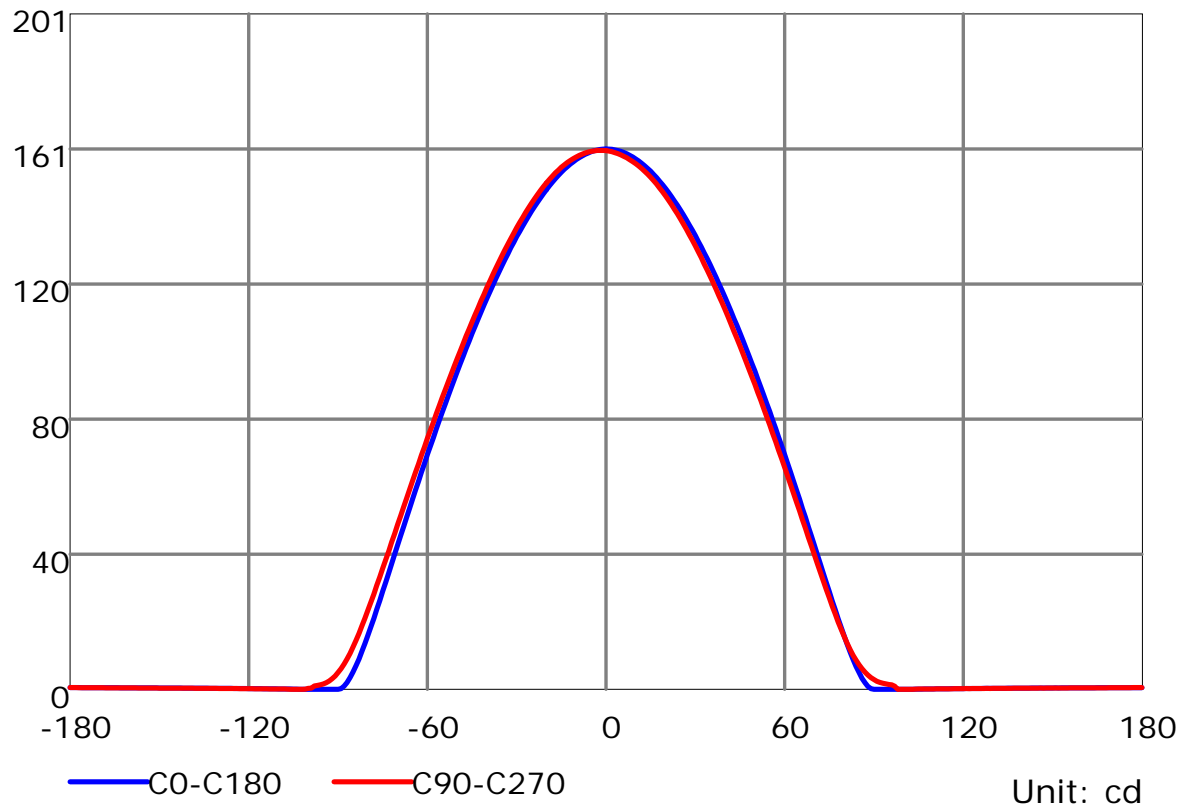
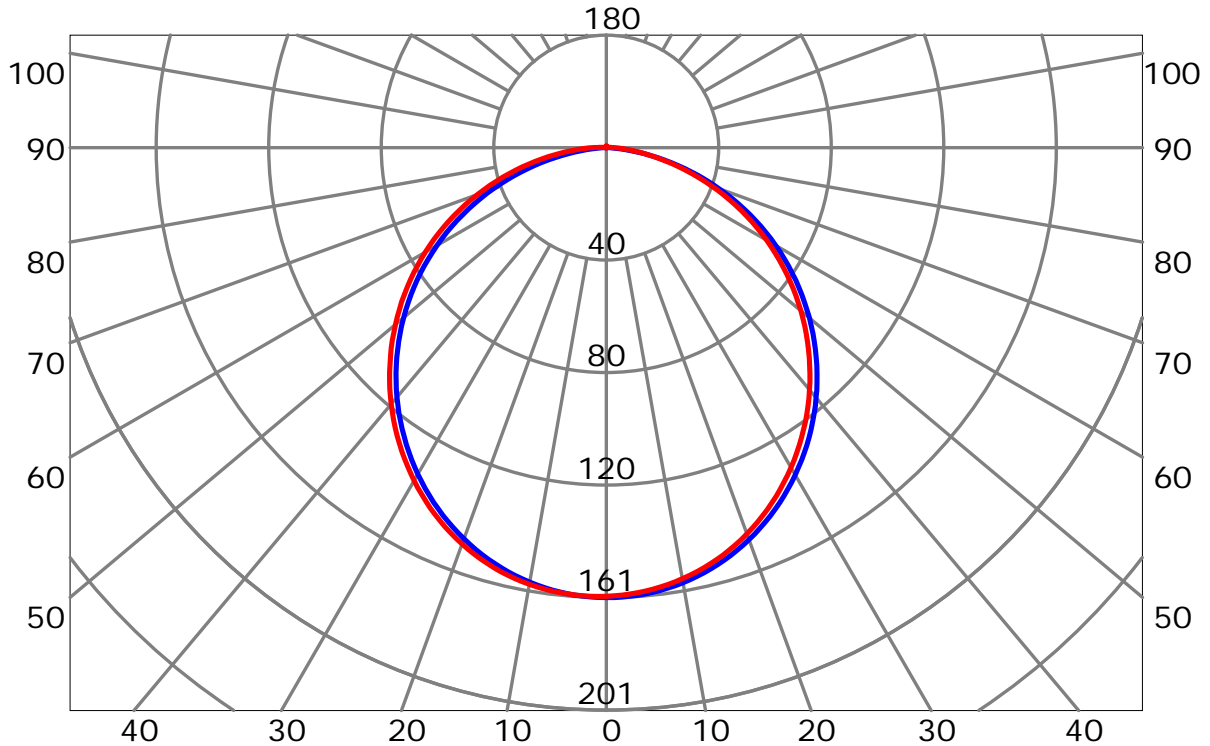


C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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



Luminous Intensity Distribution Curve

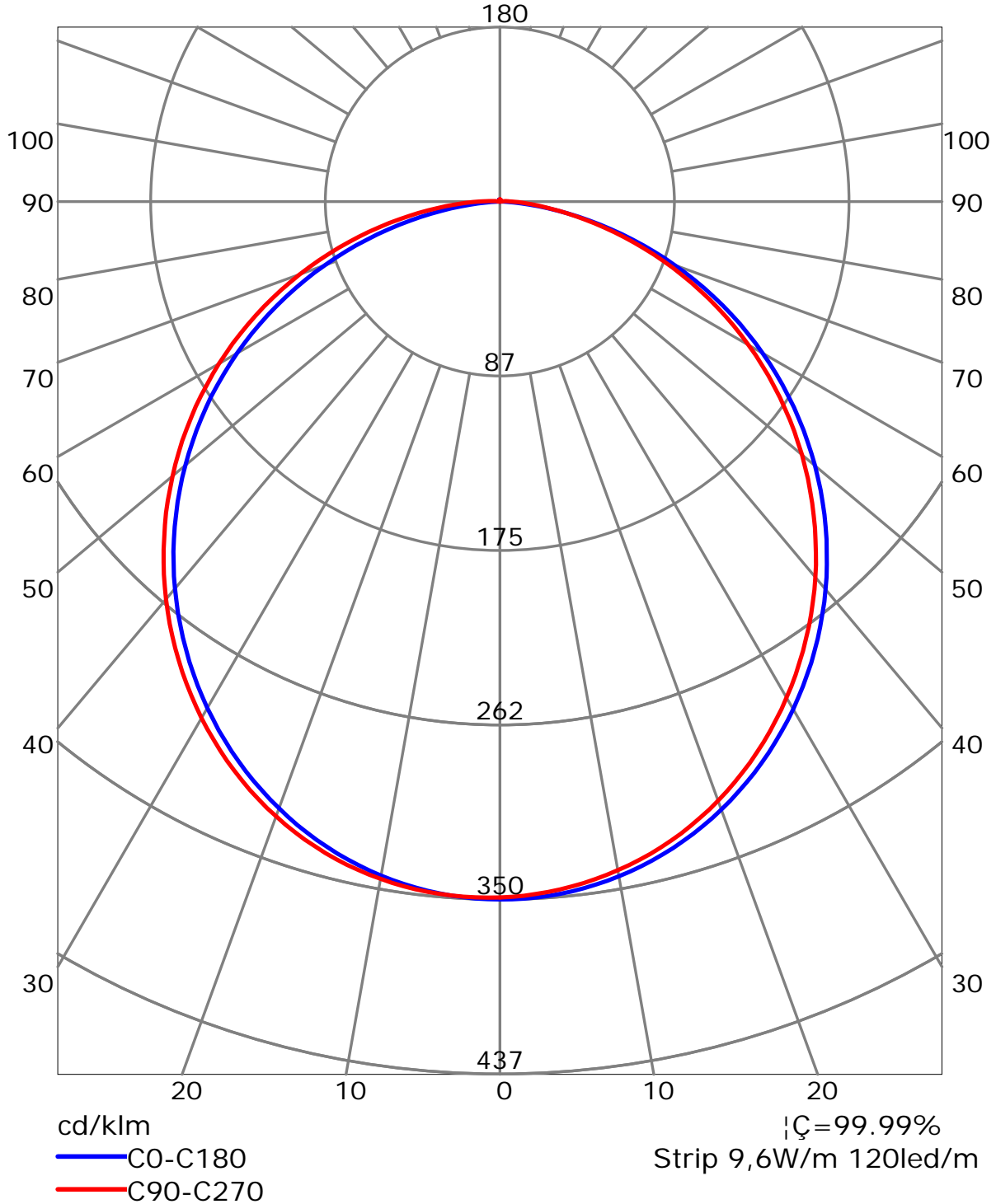


C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



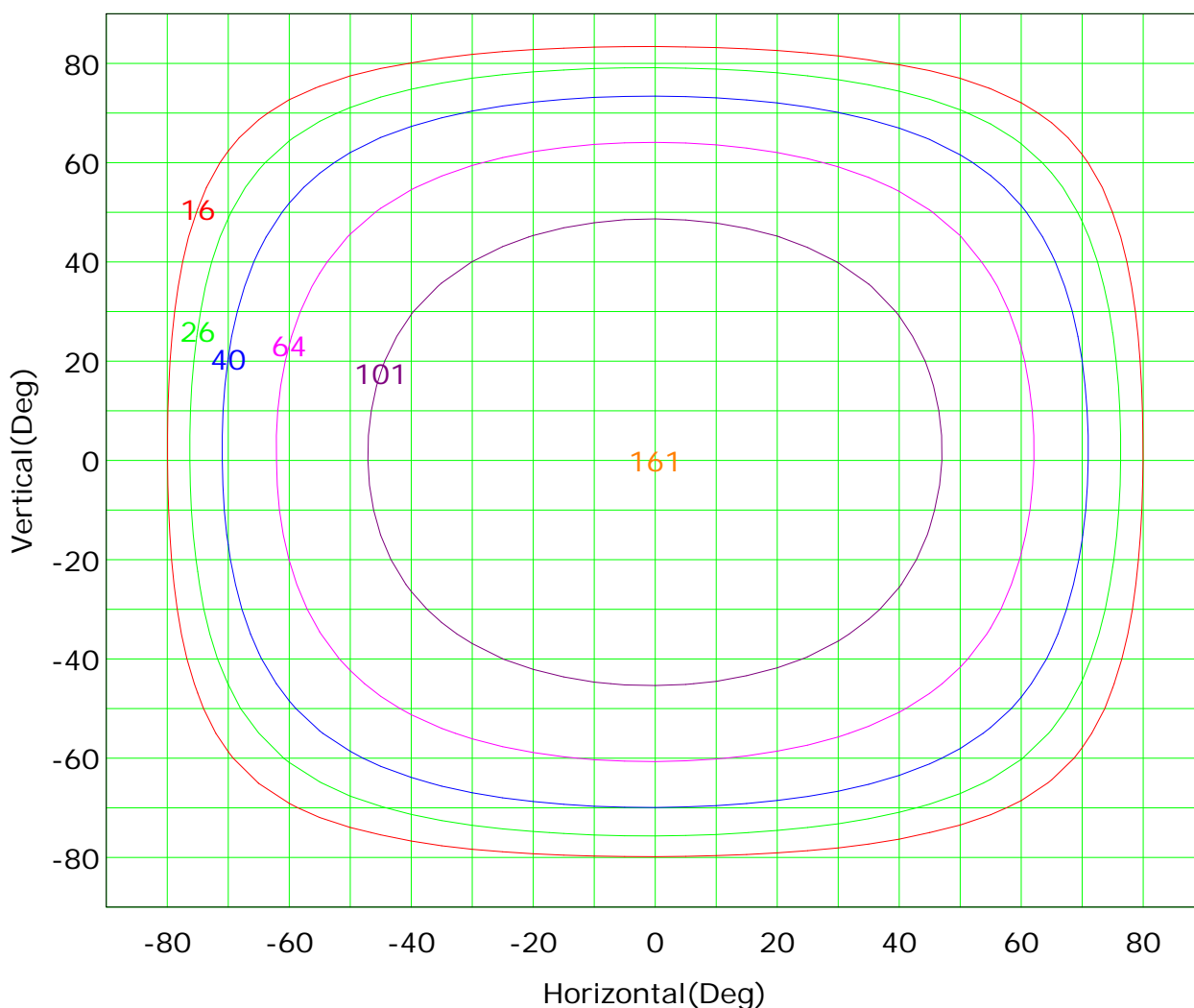
Luminous Intensity Distribution Curve(cd/klm)



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)



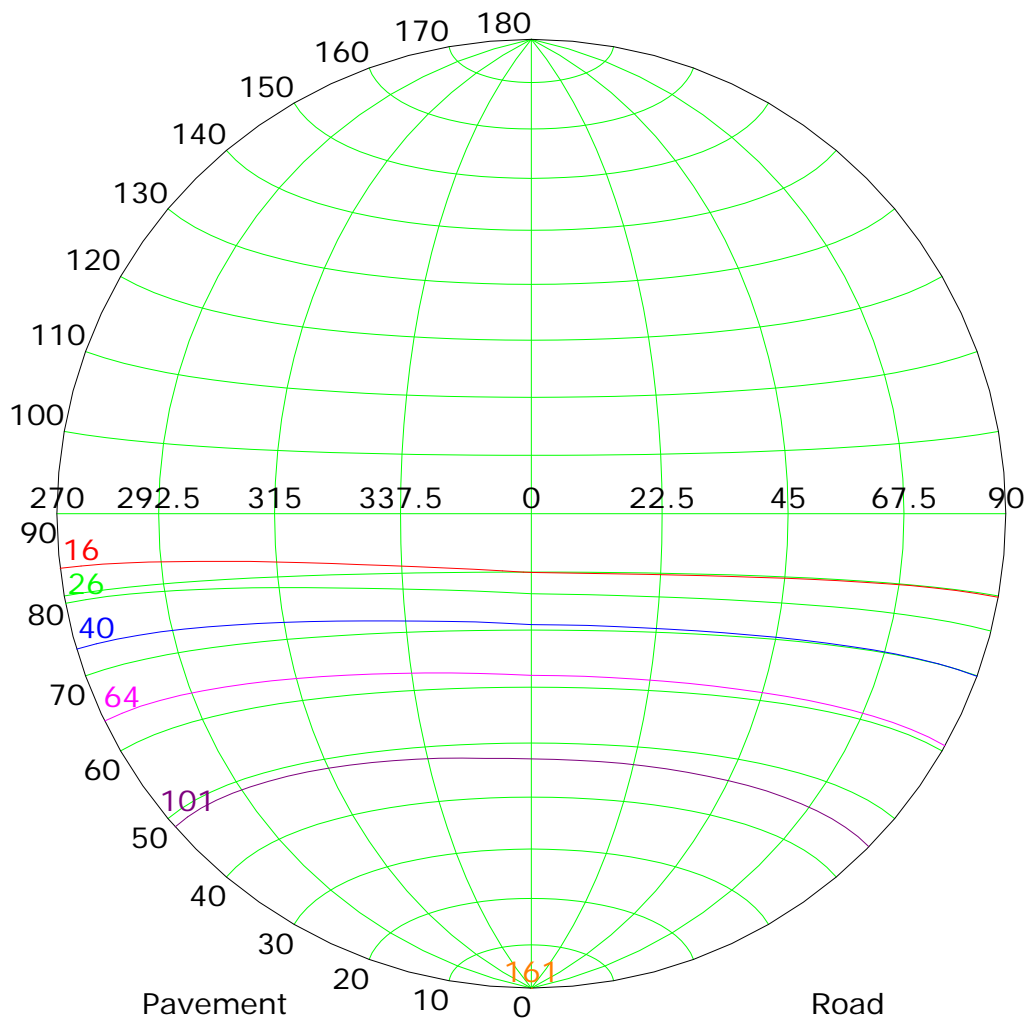
Imax (100%): 161 cd

— (10%):	16 cd	— (16%):	26 cd
— (25%):	40 cd	— (40%):	64 cd
— (63%):	101 cd	— (100%):	161 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%): 161 cd

— (10%):	16 cd	— (16%):	26 cd
— (25%):	40 cd	— (40%):	64 cd
— (63%):	101 cd	— (100%):	161 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

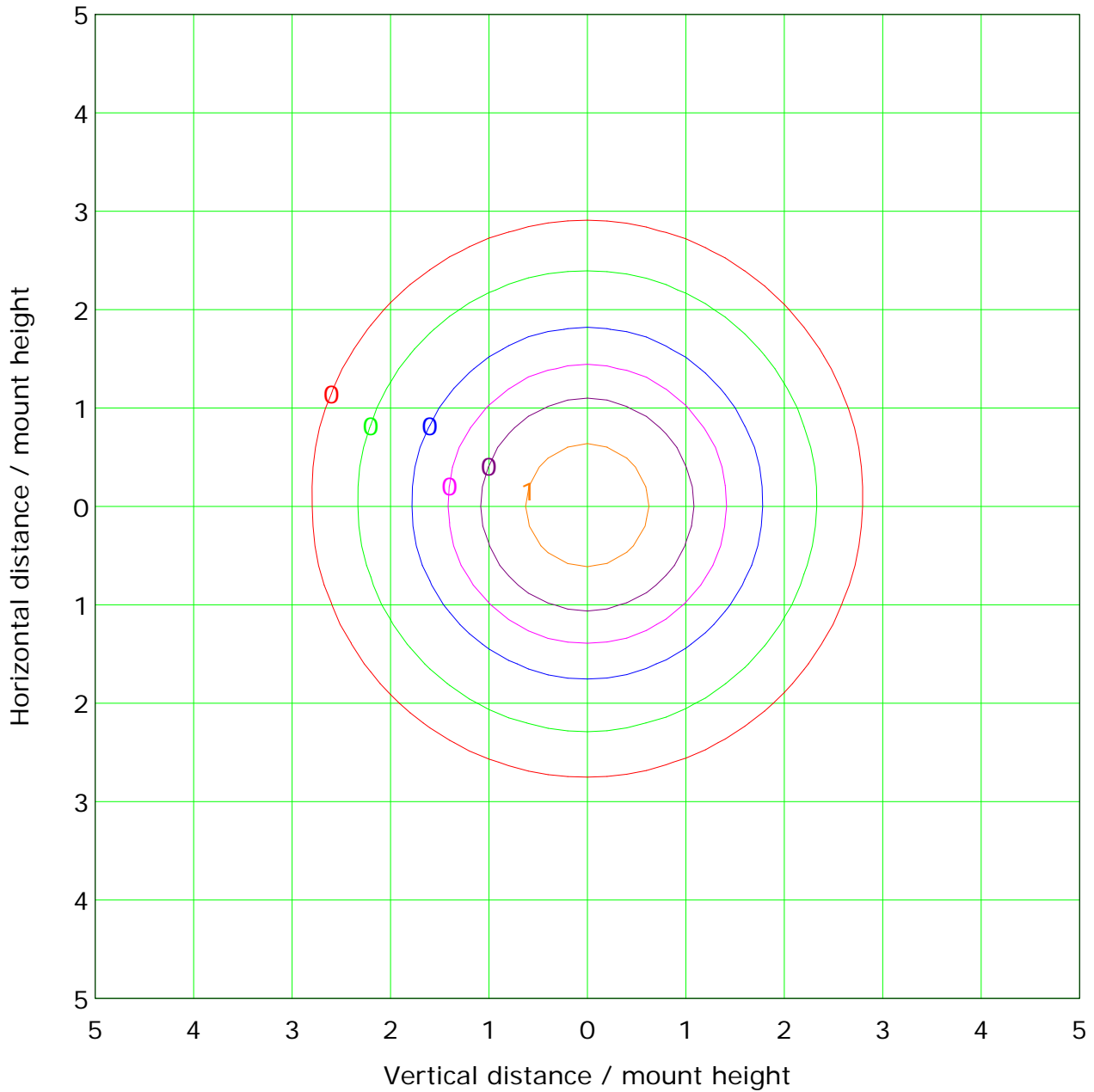
Distance: 7.970 m

Humidity:

Inspector:



IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 1.6 lx	
— (1%):	0.0 lx	— (2%):	0.0 lx
— (5%):	0.1 lx	— (10%):	0.2 lx
— (20%):	0.3 lx	— (50%):	0.8 lx
— (100%):	1.6 lx		

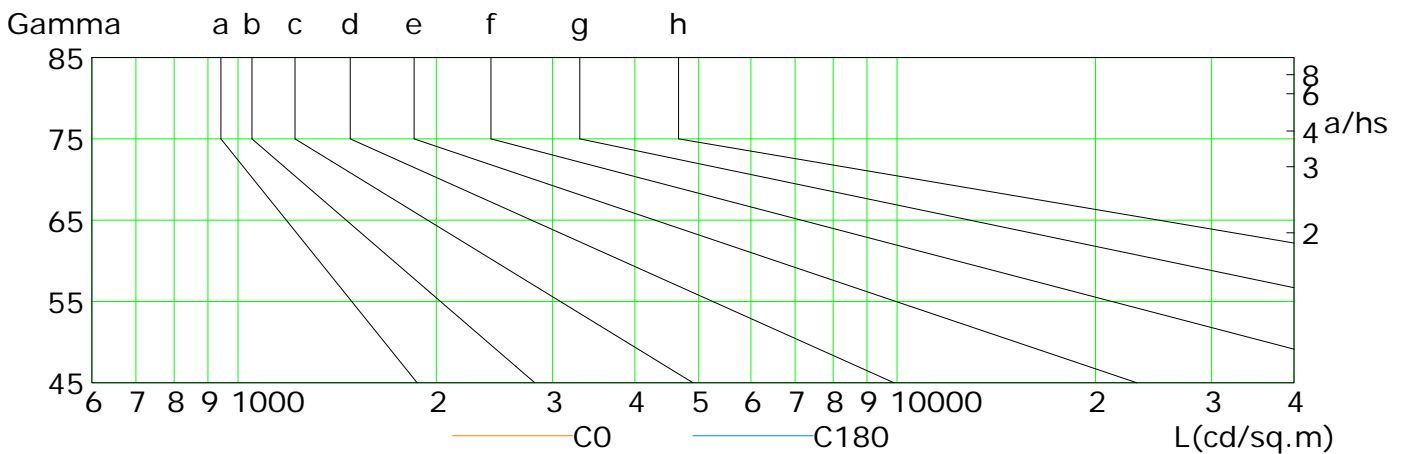
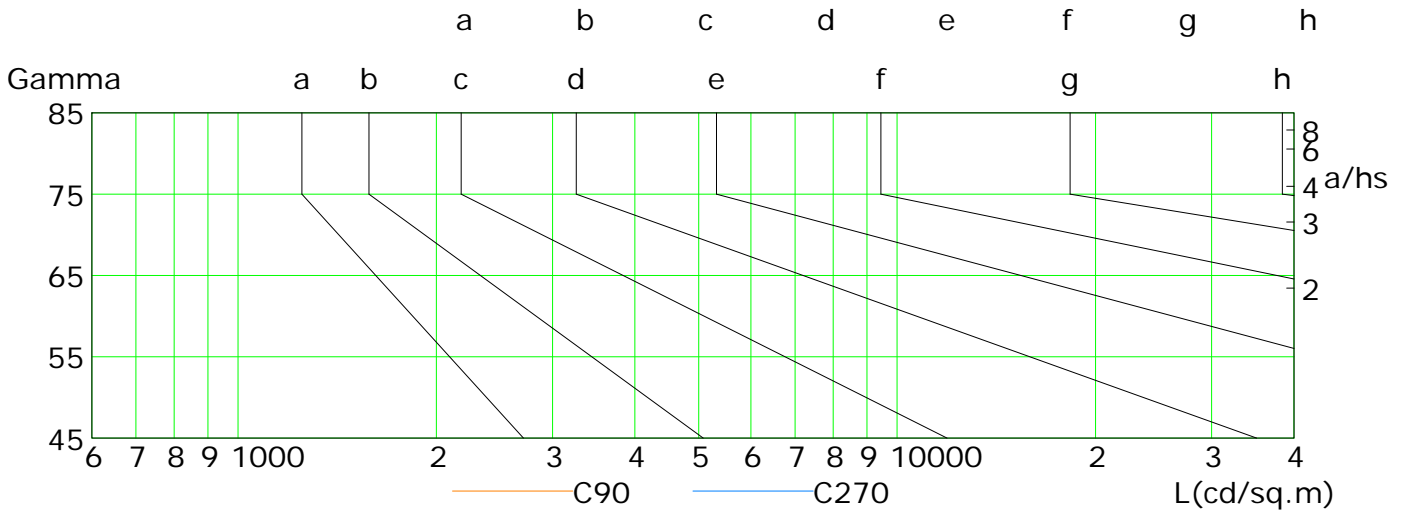
C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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	106	95	83	70	57	43	29	16	5
C90	102	91	79	66	53	40	27	16	7
C180	106	95	83	70	57	43	29	16	5
C270	109	99	87	75	62	49	36	24	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

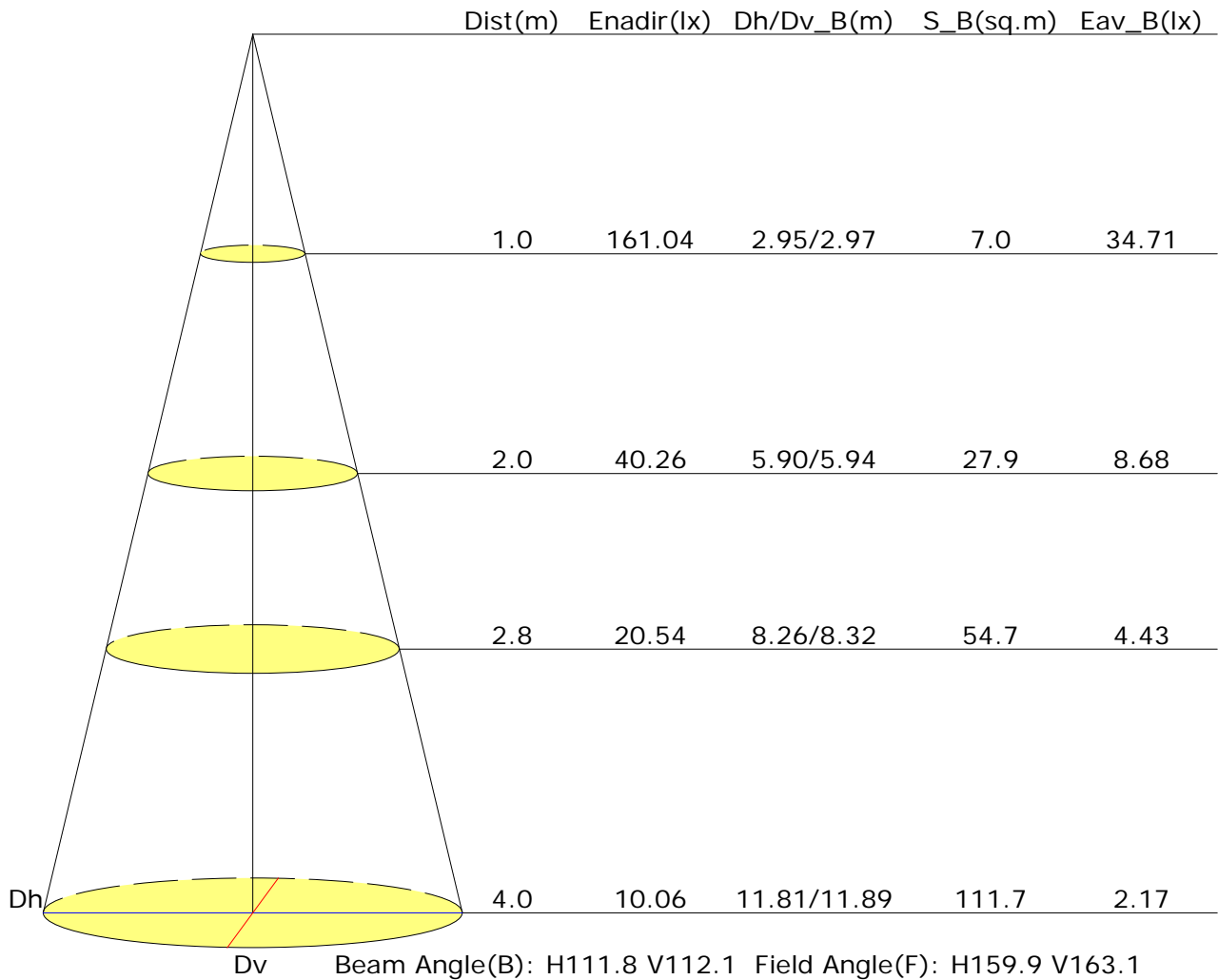
Distance: 7.970 m

Humidity:

Inspector:

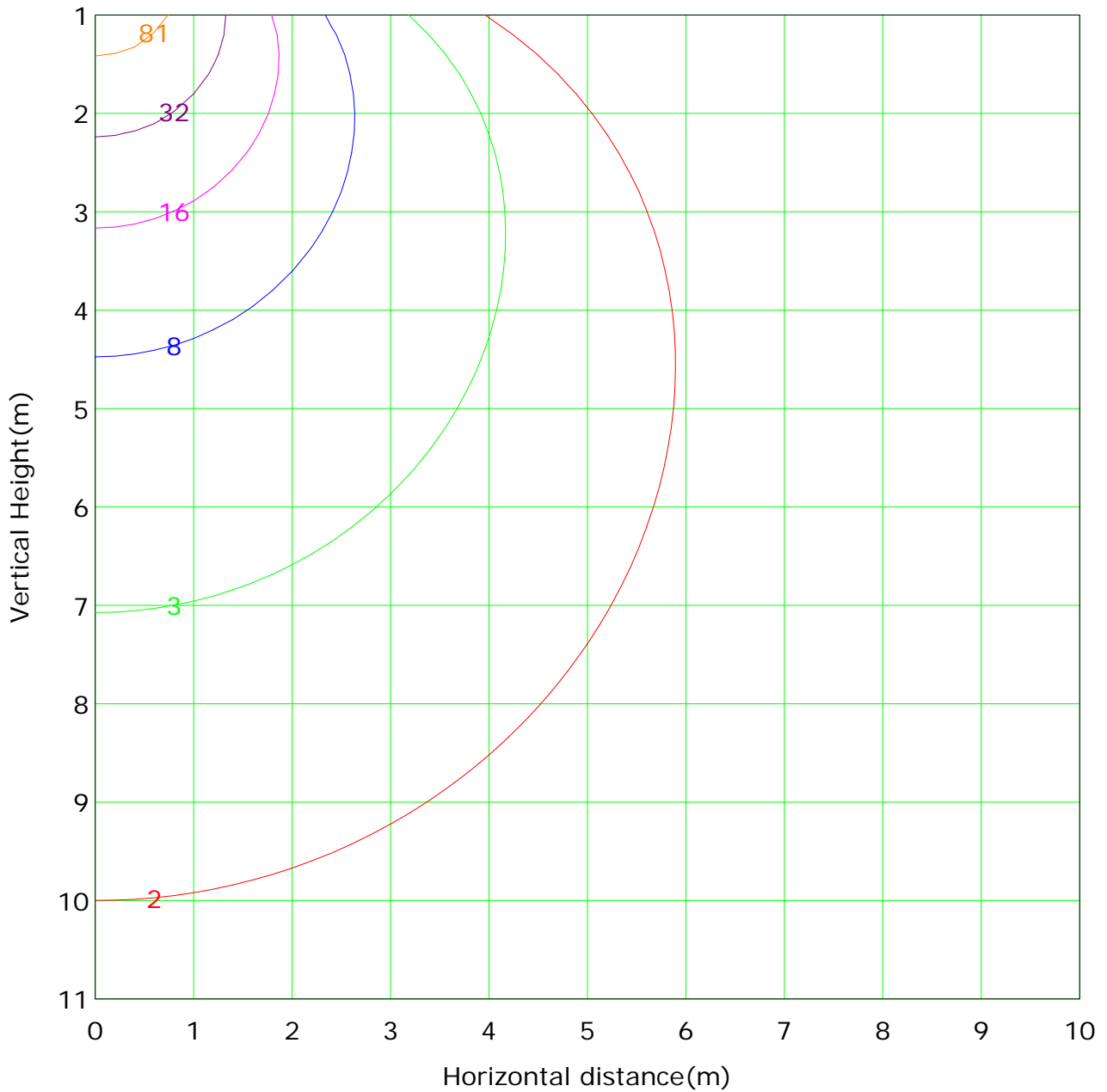


Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 161.0 lx
— (1%): 1.6 lx	— (2%): 3.2 lx	
— (5%): 8.1 lx	— (10%): 16.1 lx	
— (20%): 32.2 lx	— (50%): 80.5 lx	
— (100%): 161.0 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: 16/09/2019 16:35

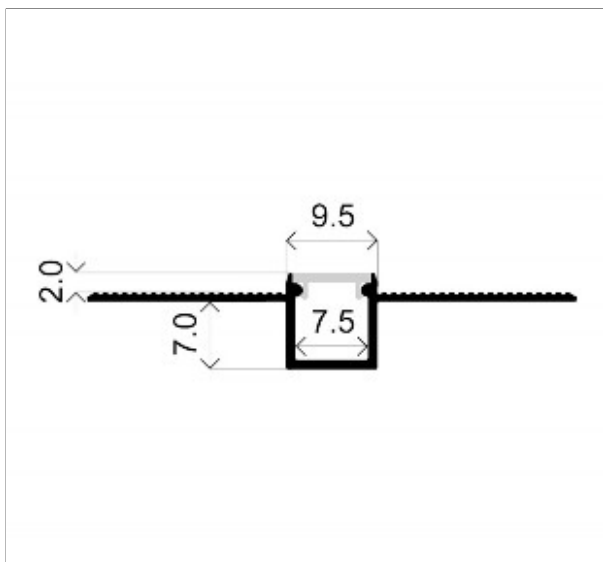
Luminaire Property

Luminaire Manufacturer: Lighting Line
 Luminaire Description: LLP-DW06-02 + LLD-02-FS
 Lamp Description: Strip 9,6W/m 120led/m Number of Lamps: 1
 Lumens per Lamp: 419 lm Voltage: 24.0 V
 Current: 0.379 A Power: 9.10 W
 Power Factor: 1.000

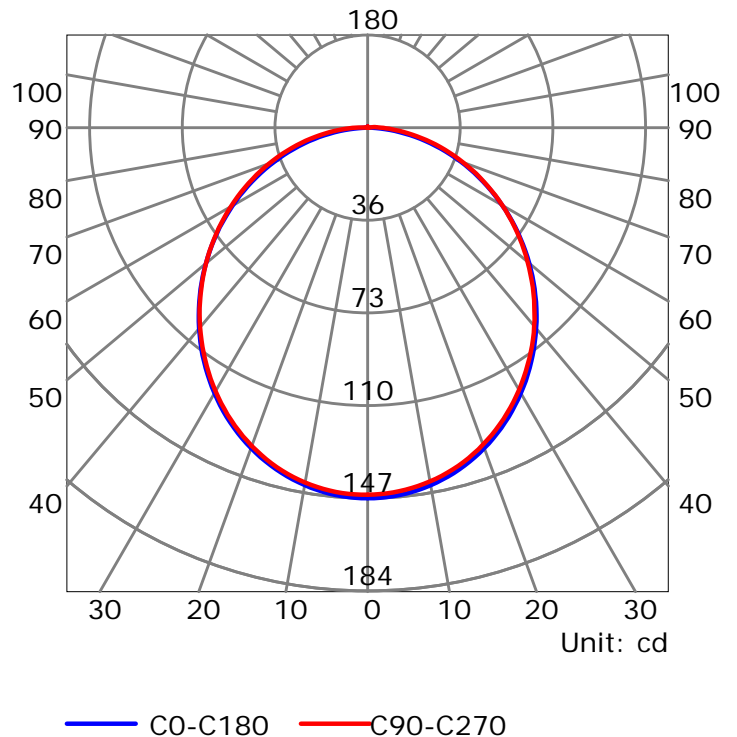
Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 419.0 lm
Measurement Flux: 418.6 lm	Efficiency: 99.90%
Downward Ratio: 99.30%	Upward Ratio: 0.60%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.5, 166.5, 163.6, 166.7	
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.5, 110.0, 109.7, 111.5	
Luminaire Efficacy Rating (LER): 46.05	Central Intensity: 147.56 cd
Max. Intensity: 147.56 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

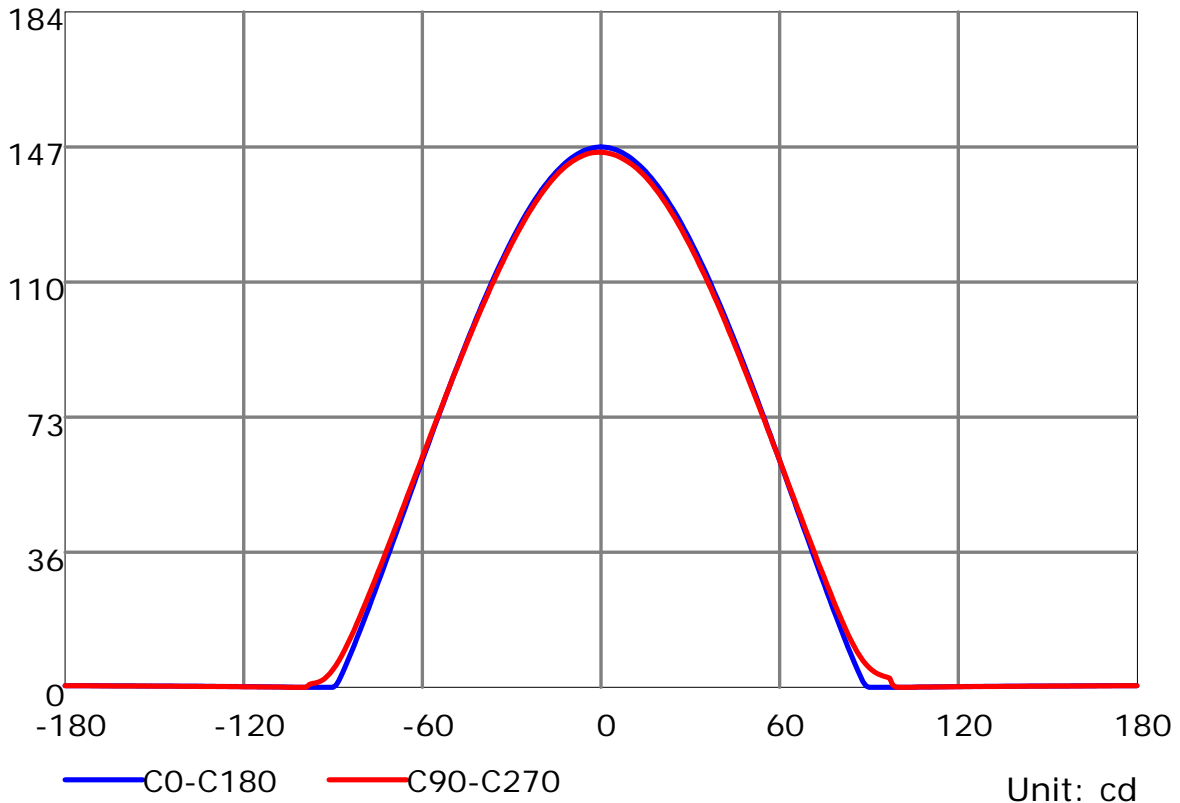
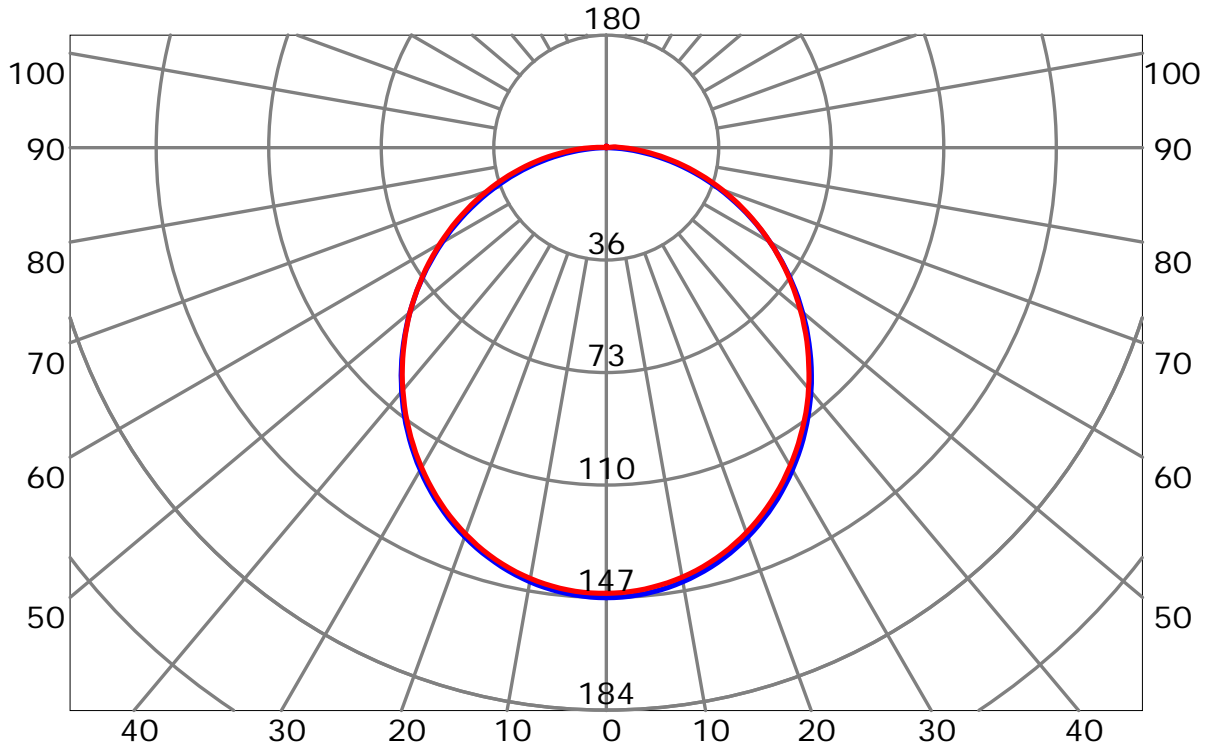


C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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



Luminous Intensity Distribution Curve

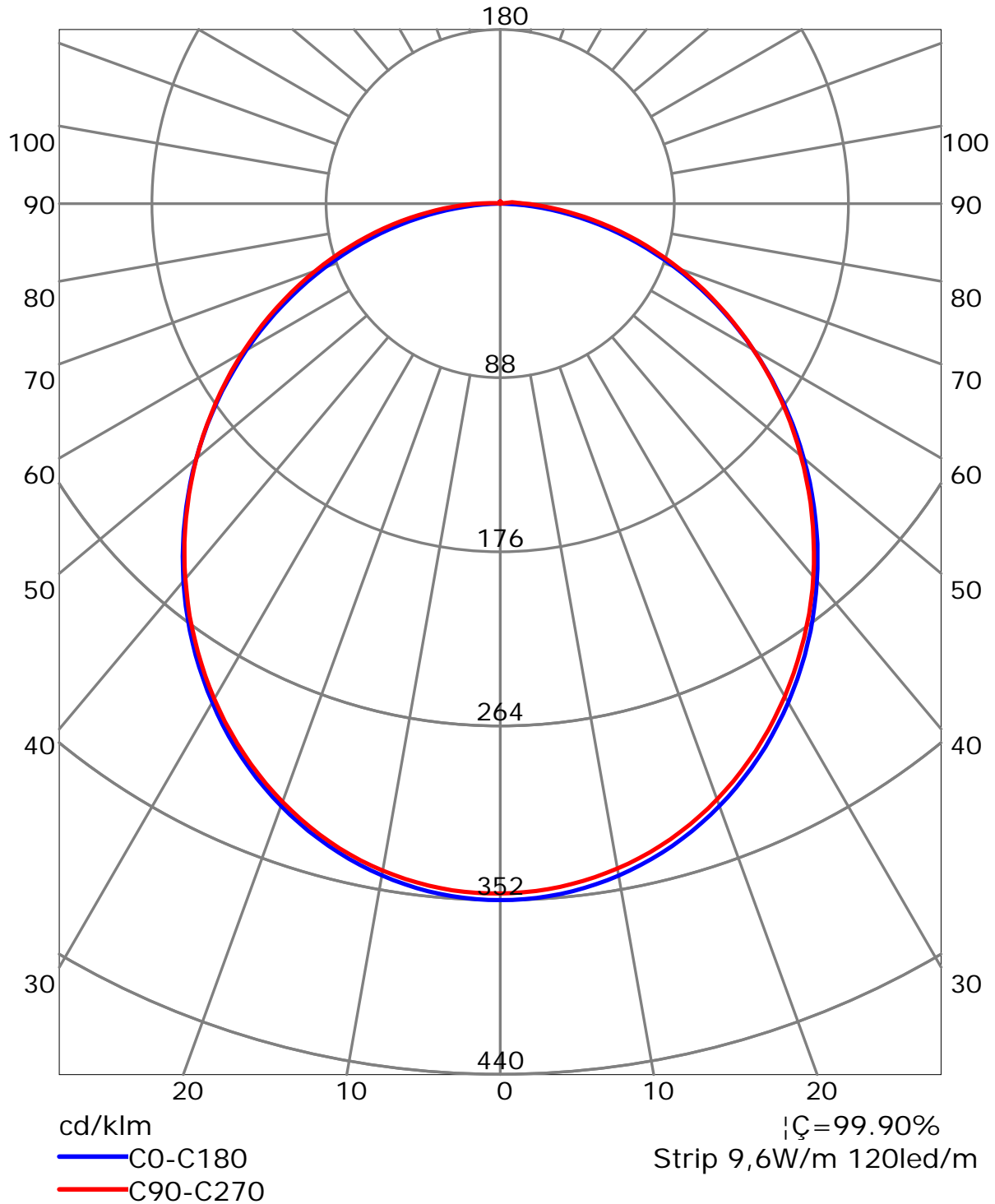


C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



Luminous Intensity Distribution Curve(cd/klm)

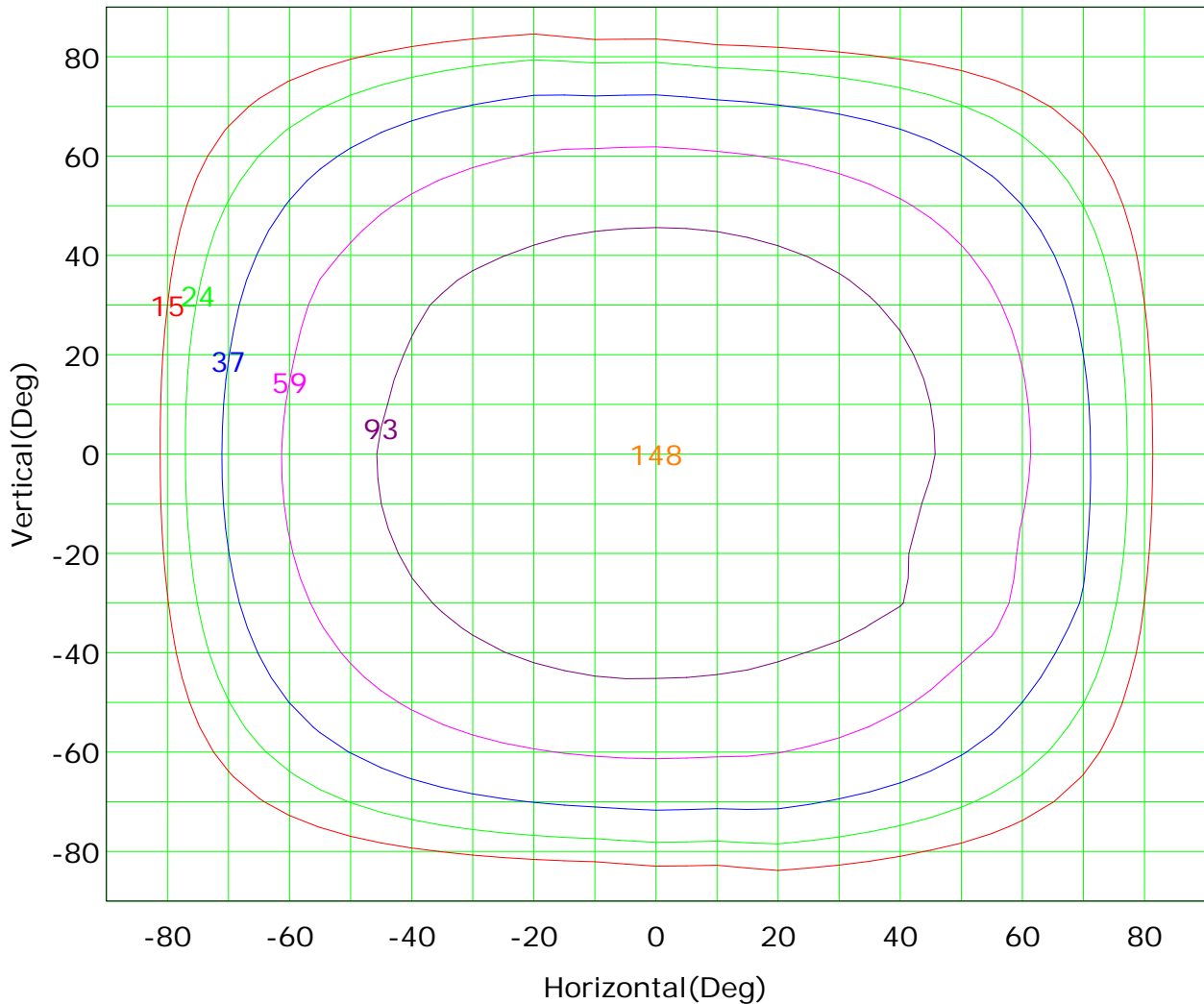


C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



Isocandela (rectangle)



Imax (100%): 148 cd

— (10%):	15 cd	— (16%):	24 cd
— (25%):	37 cd	— (40%):	59 cd
— (63%):	93 cd	— (100%):	148 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

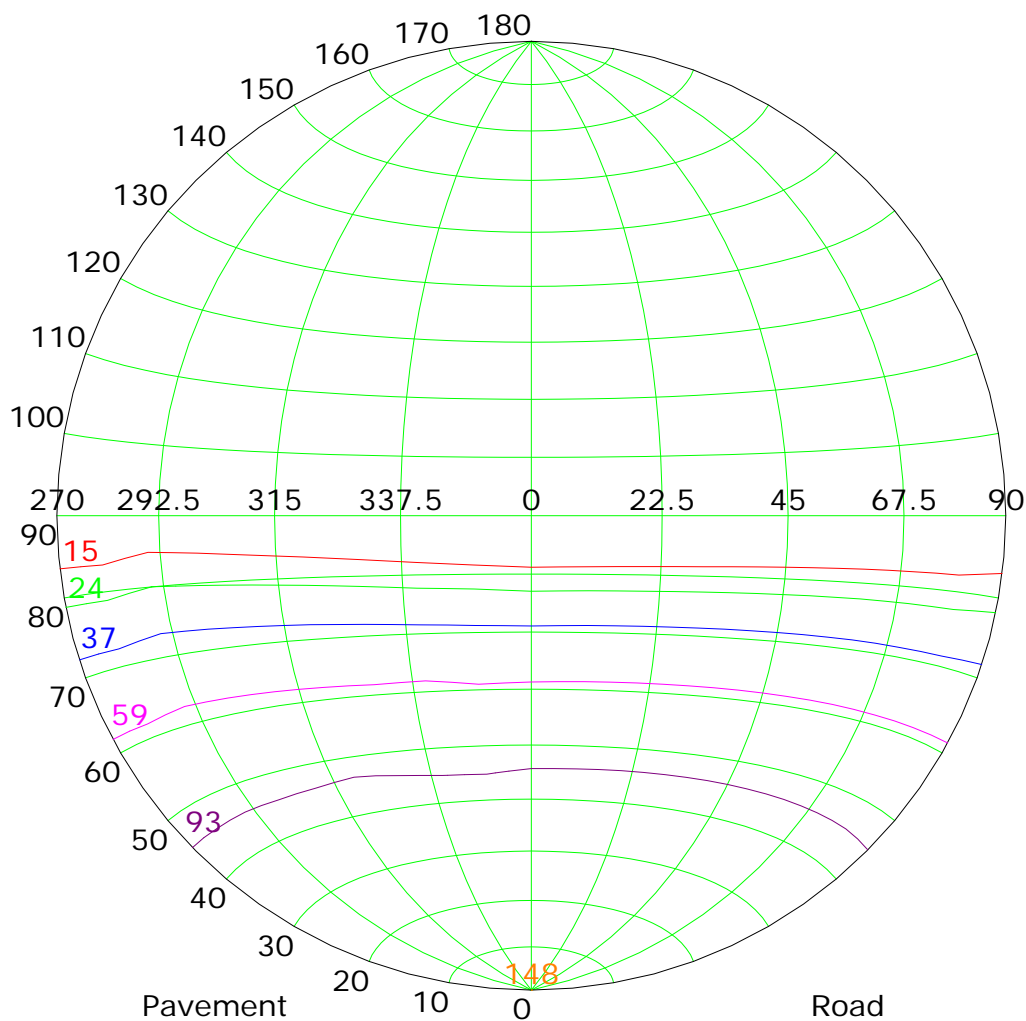
Test Device: GPM-2000

Distance: 7.970 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 148 cd

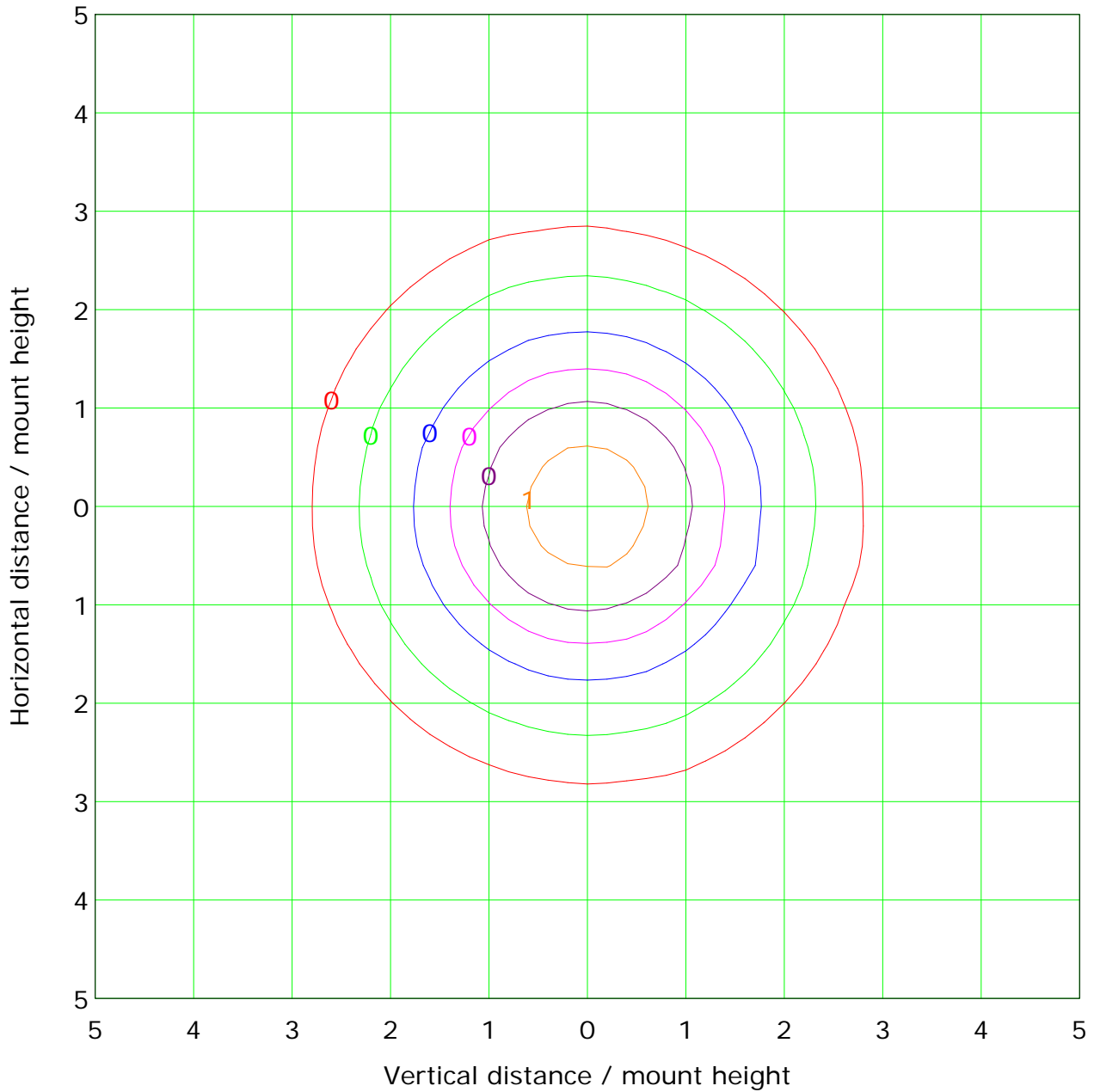
— (10%):	15 cd	— (16%):	24 cd
— (25%):	37 cd	— (40%):	59 cd
— (63%):	93 cd	— (100%):	148 cd

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%): 1.5 lx	
— (1%):	0.0 lx	— (2%):	0.0 lx
— (5%):	0.1 lx	— (10%):	0.1 lx
— (20%):	0.3 lx	— (50%):	0.7 lx
— (100%):	1.5 lx		

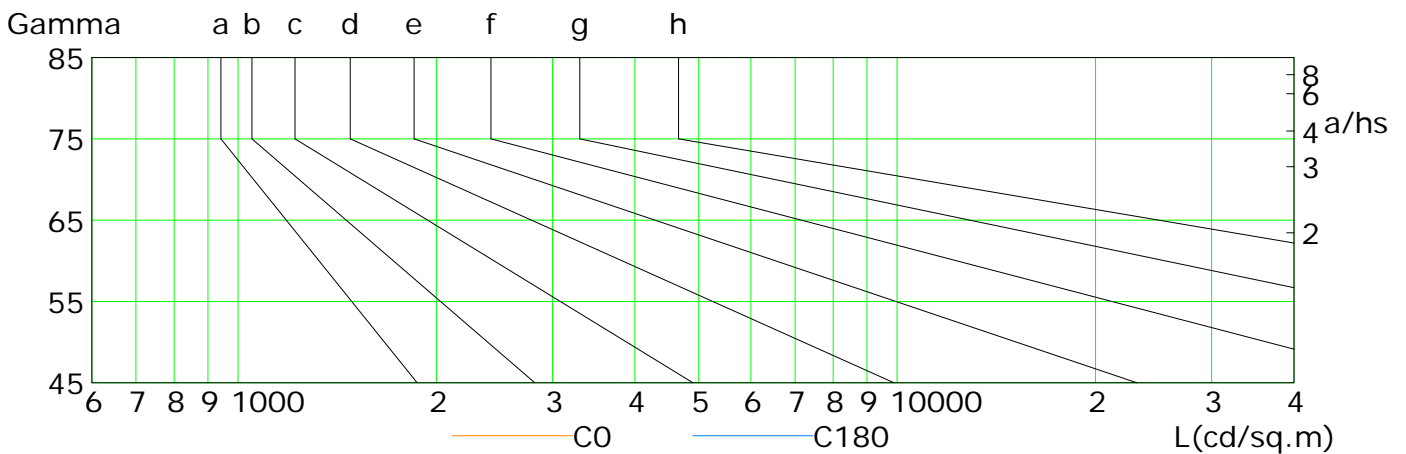
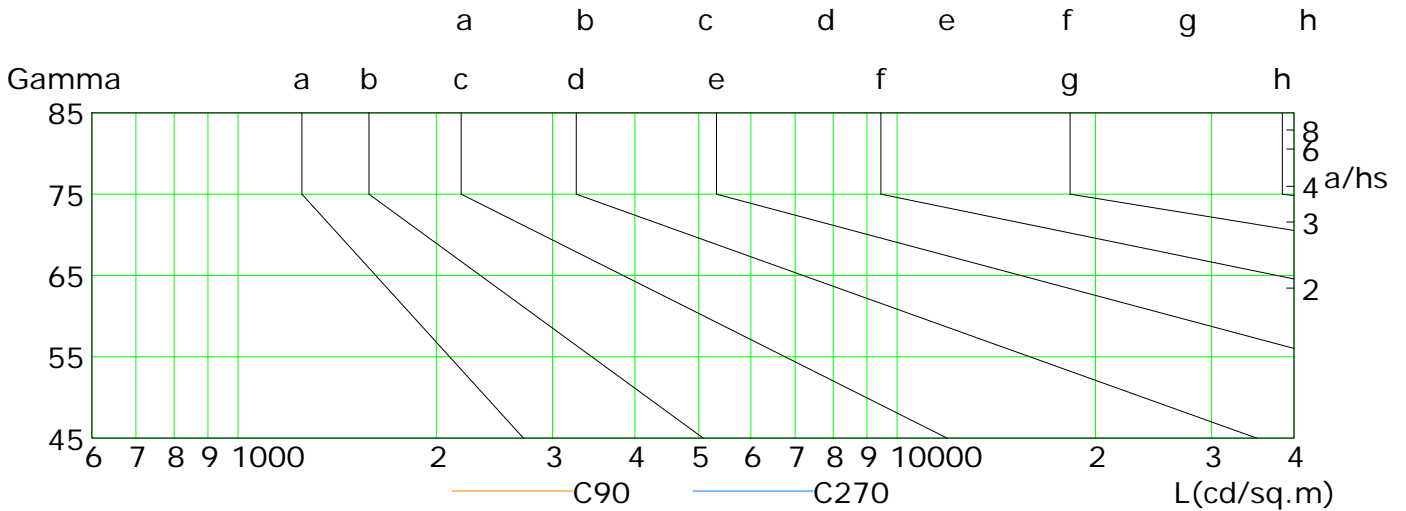
C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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



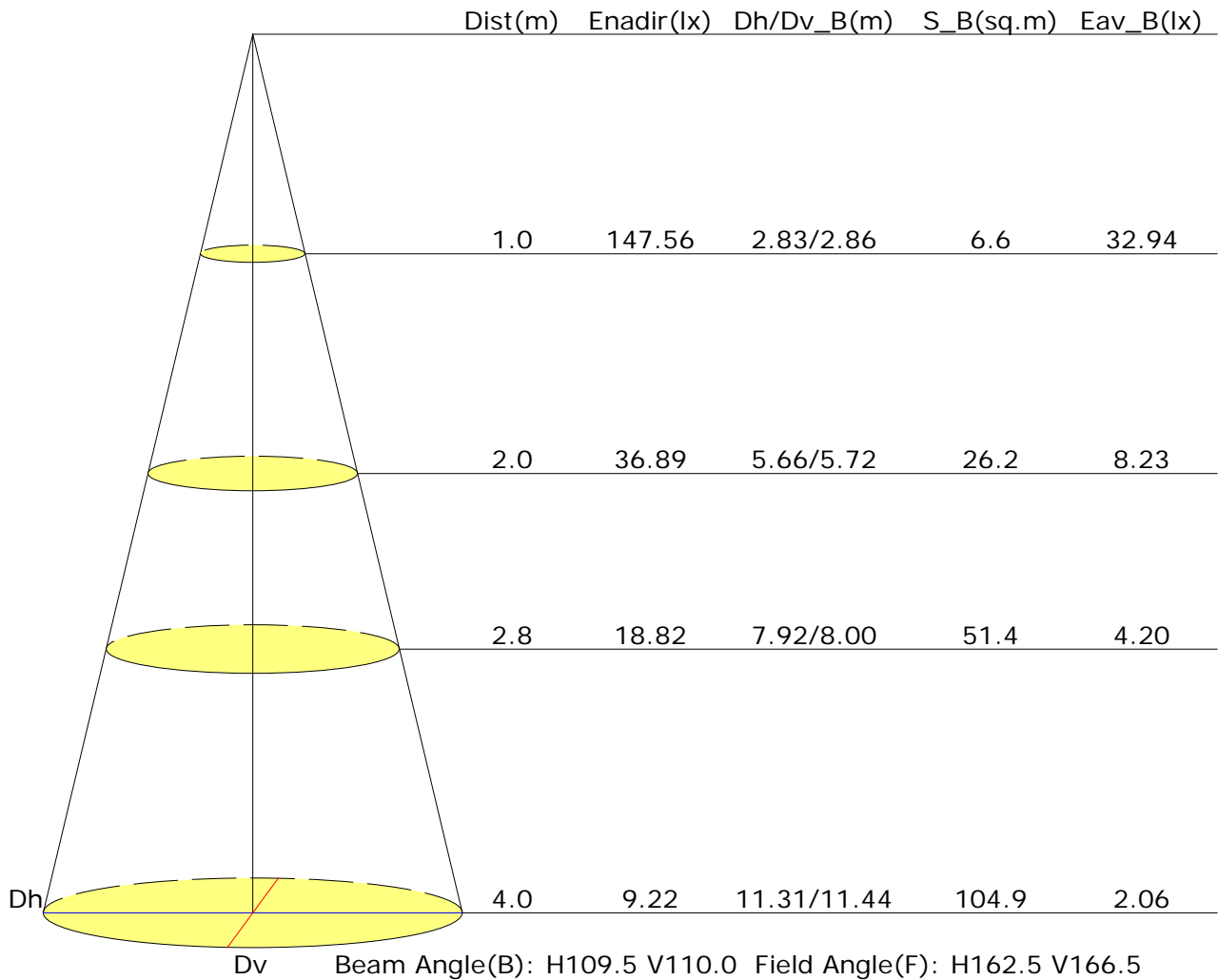
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	94	84	73	62	51	39	28	17	7
C90	93	83	73	62	51	40	30	20	11
C180	94	84	73	62	51	40	28	18	7
C270	94	84	74	63	52	42	31	21	12

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:

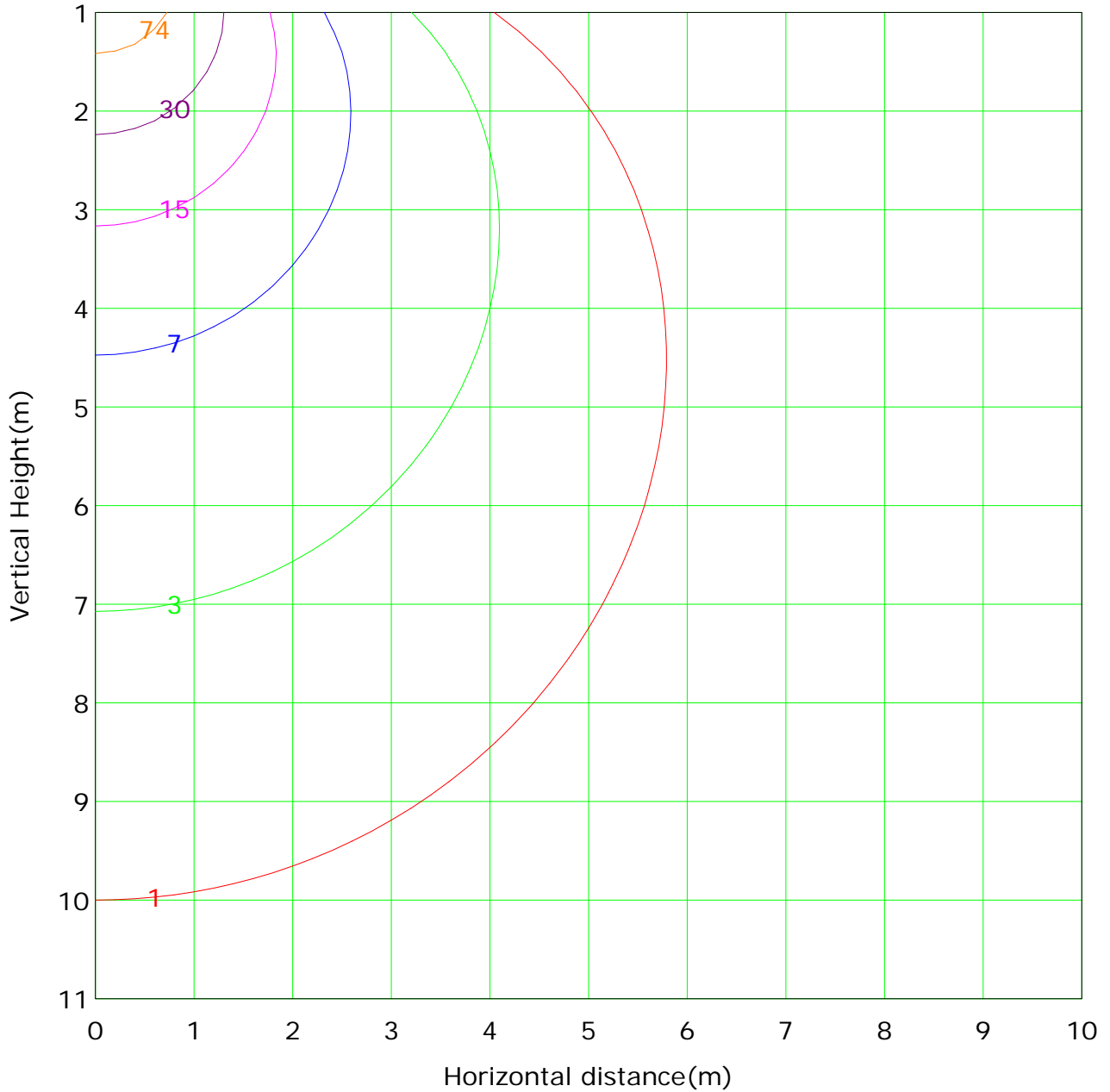


Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 147.6 lx
— (1%): 1.5 lx	— (2%): 3.0 lx	
— (5%): 7.4 lx	— (10%): 14.8 lx	
— (20%): 29.5 lx	— (50%): 73.8 lx	
— (100%): 147.6 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: