



Report No.:

Test Time: 21/09/2022 10:44

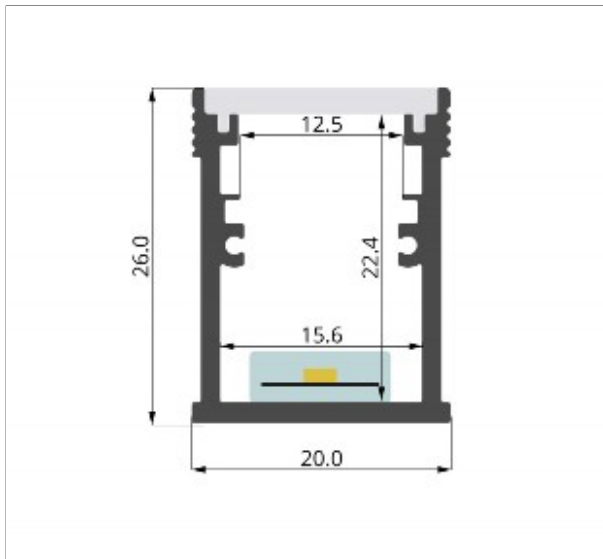
Luminaire Property

Luminaire Manufacturer: Lighting Line
 Luminaire Description: LLP-FL02-21 + LLD-21-FM
 Lamp Description: Strip 14,4W/m 60led/m Number of Lamps: 1
 Lumens per Lamp: 1579 lm Voltage: 24.0 V
 Current: 0.592 A Power: 14.20 W
 Power Factor: 1.000

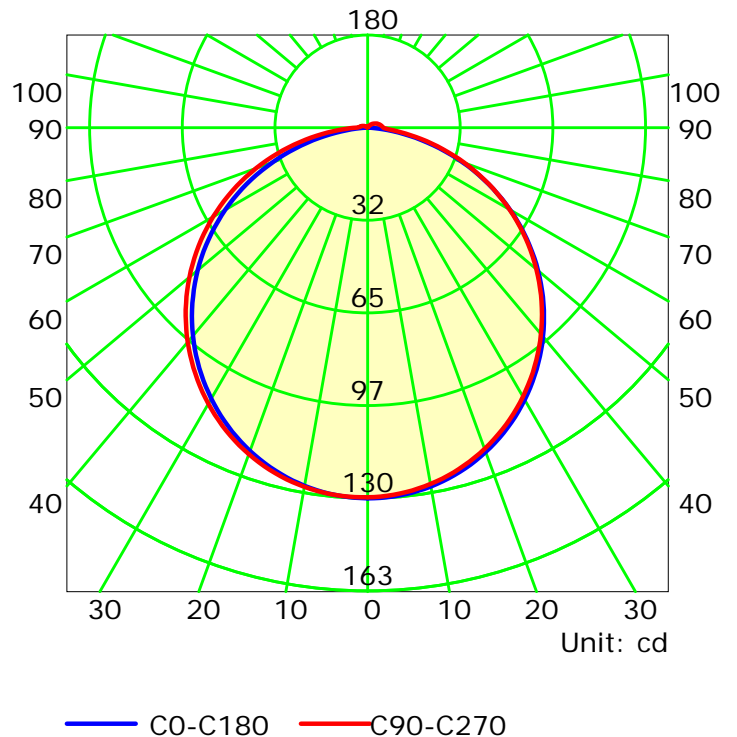
Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 1579.0 lm
Measurement Flux: 388.8 lm	Efficiency: 24.62%
Downward Ratio: 24.15%	Upward Ratio: 0.48%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.1, 165.0, 163.1, 163.2	
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.1, 115.3, 114.5, 114.6	
Luminaire Efficacy Rating (LER): 27.43	Central Intensity: 130.58 cd
Max. Intensity: 130.59 cd	Pos of Max. Intensity: H0 V0
S/MH(C0/C180): 1.26	S/MH(C90/C270): 1.27

Picture Of Luminaire



Luminous Intensity Distribution Curve

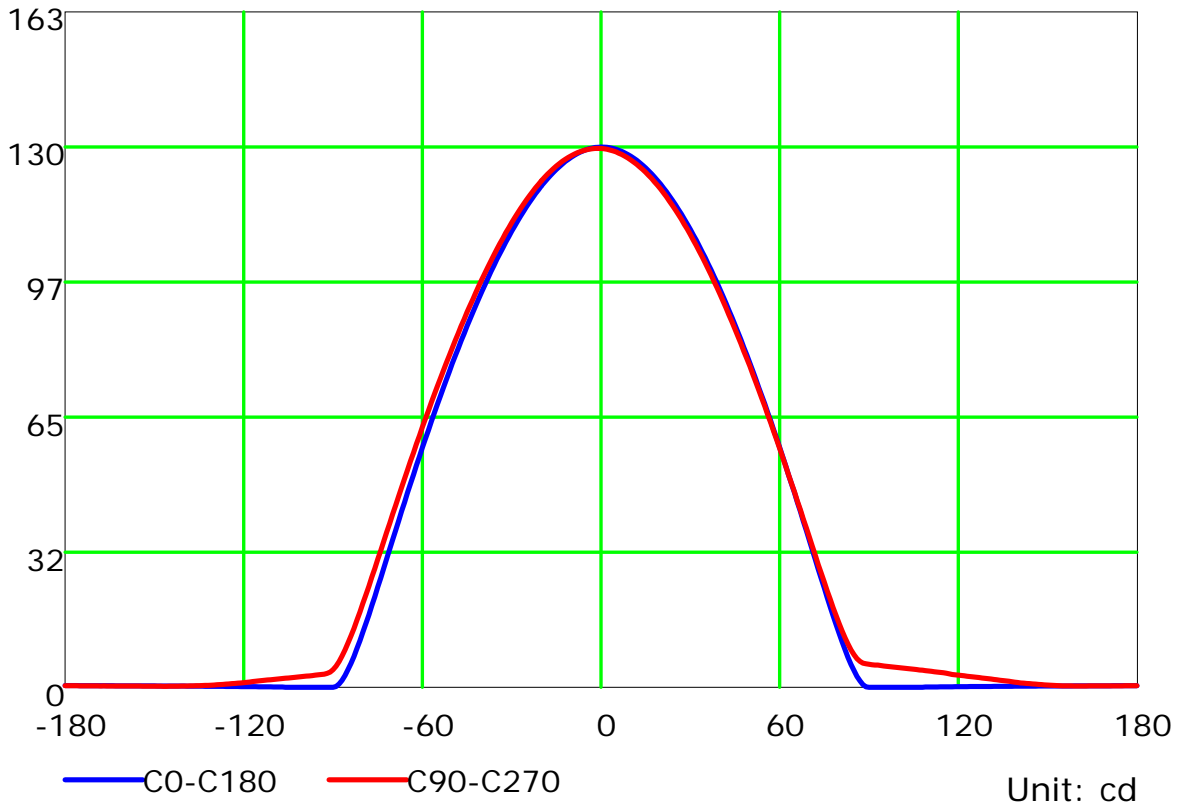
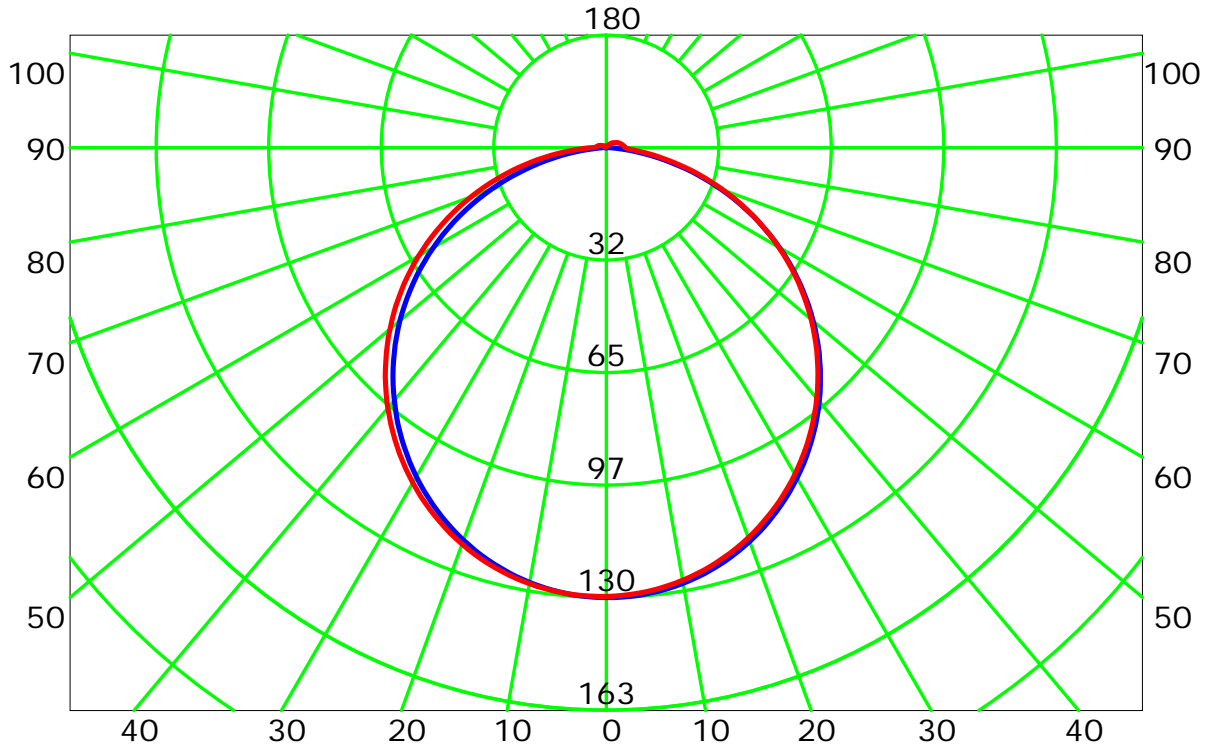


C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.979 m
 Humidity:
 Inspector:



Luminous Intensity Distribution Curve

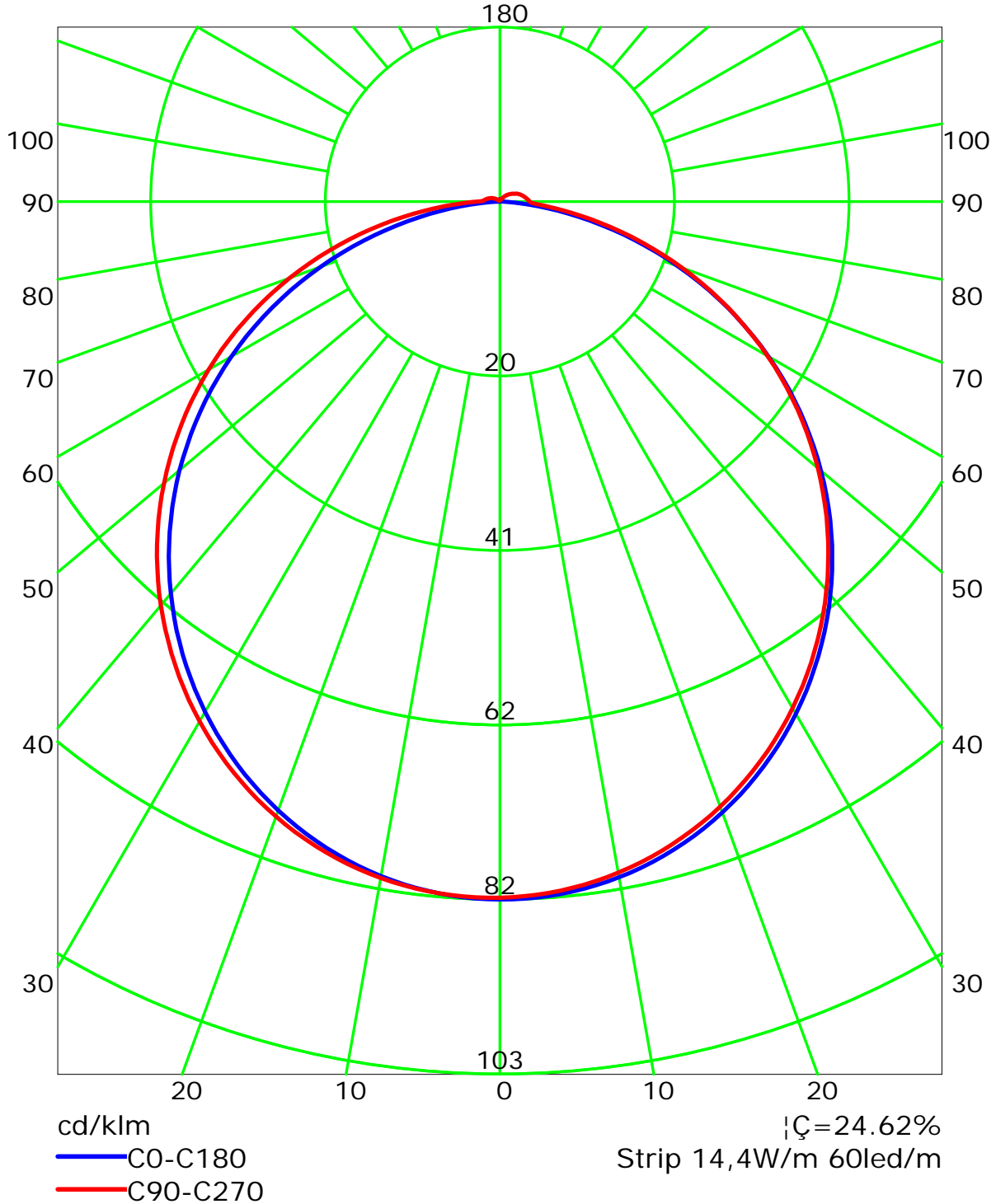


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:



Luminous Intensity Distribution Curve(cd/klm)

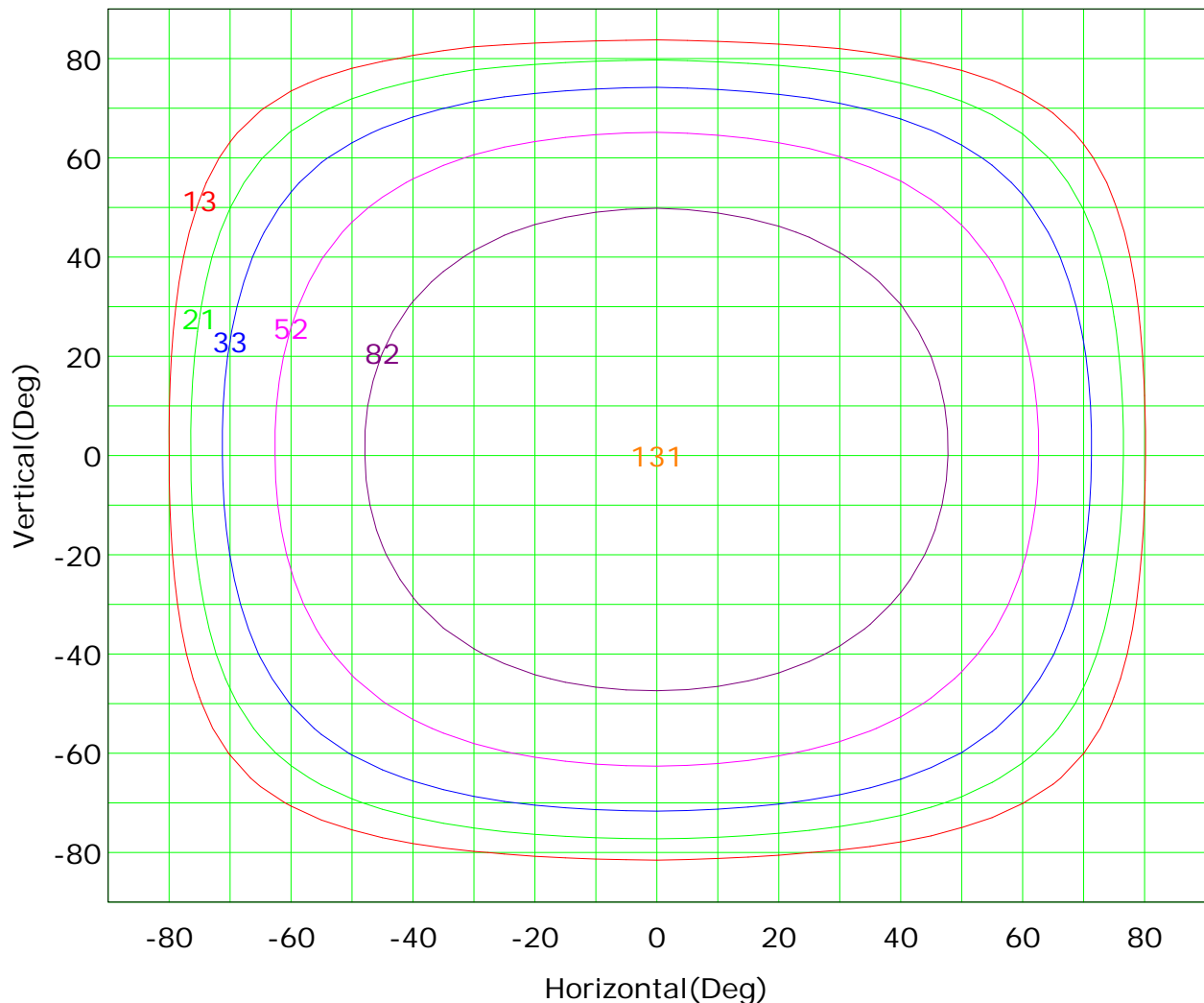


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:



Isocandela (rectangle)



Imax (100%): 131 cd

— (10%):	13 cd	— (16%):	21 cd
— (25%):	33 cd	— (40%):	52 cd
— (63%):	82 cd	— (100%):	131 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

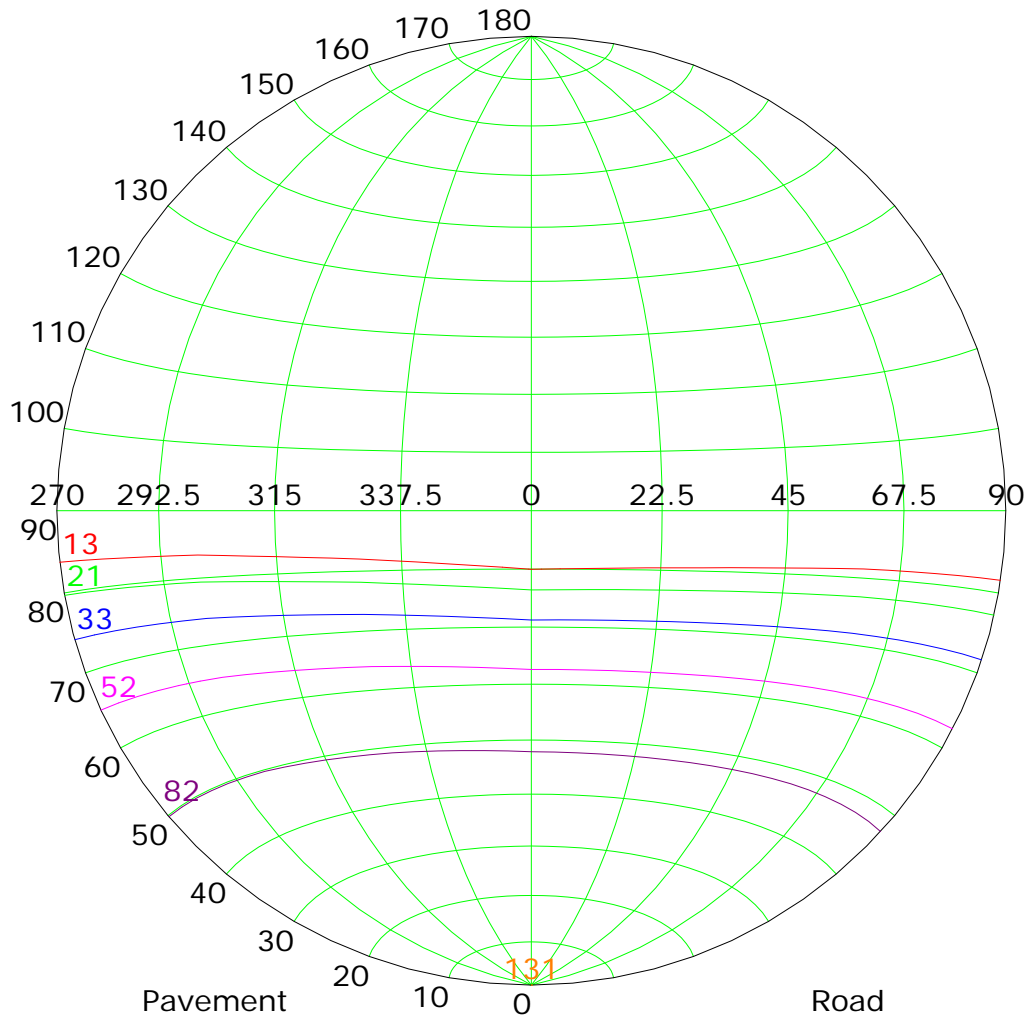
Distance: 7.979 m

Humidity:

Inspector:



Isocandela (sphere)



Imax (100%): 131 cd

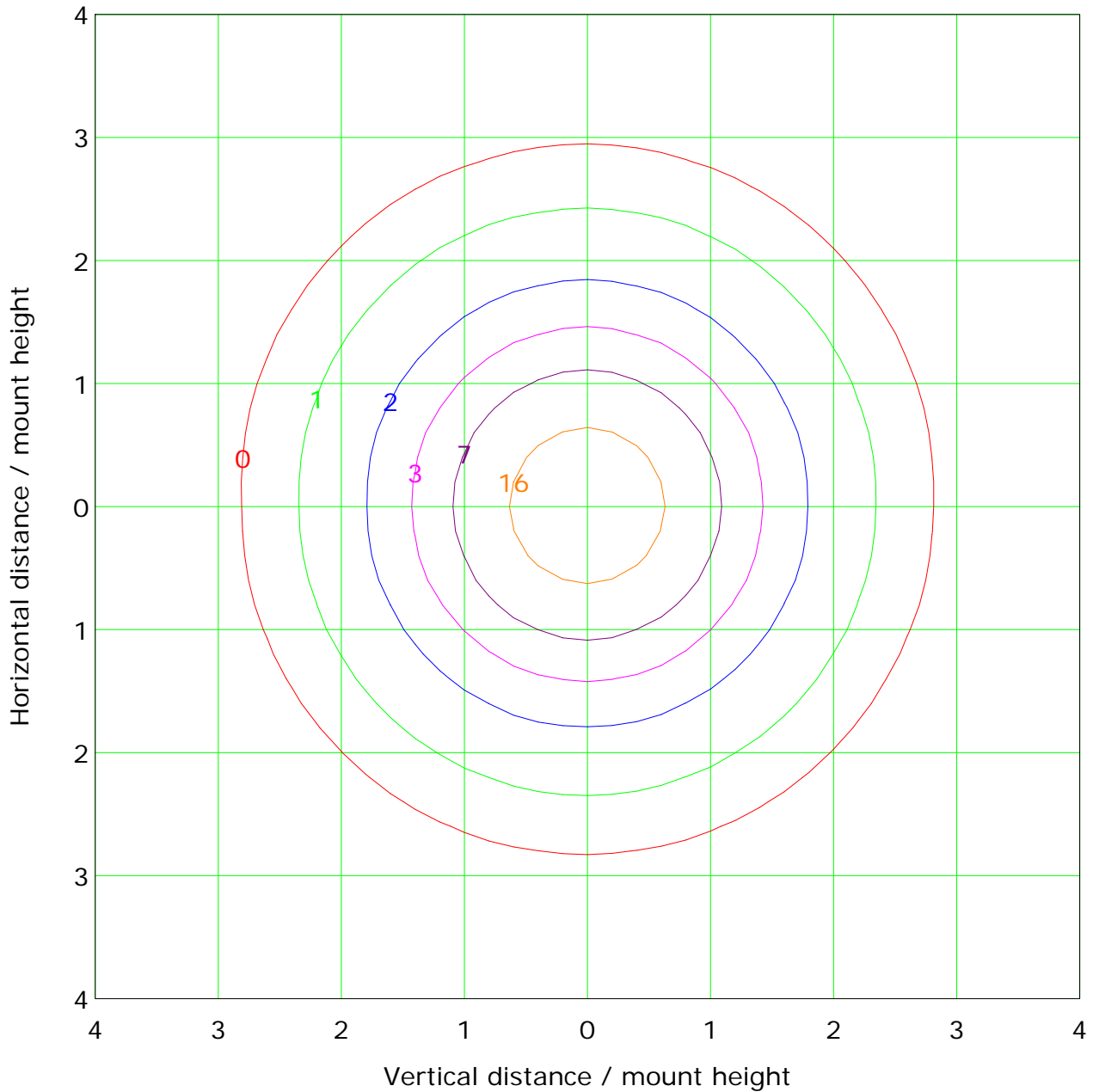
— (10%):	13 cd	— (16%):	21 cd
— (25%):	33 cd	— (40%):	52 cd
— (63%):	82 cd	— (100%):	131 cd

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.979 m
 Humidity:
 Inspector:



IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 32.6 lx
— (1%):	0.3 lx	— (2%): 0.7 lx
— (5%):	1.6 lx	— (10%): 3.3 lx
— (20%):	6.5 lx	— (50%): 16.3 lx
— (100%):	32.6 lx	

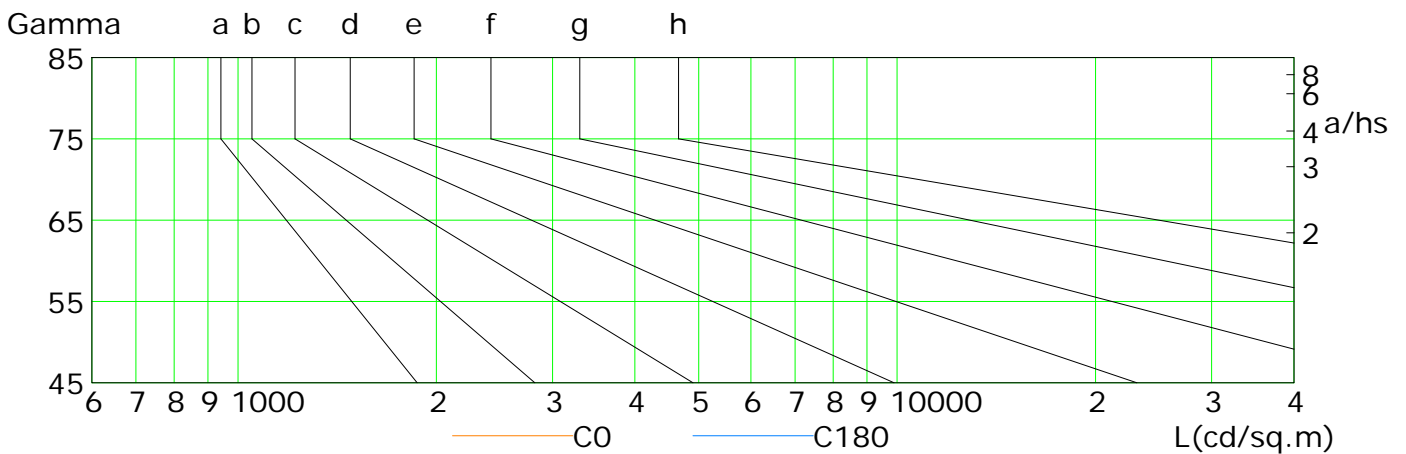
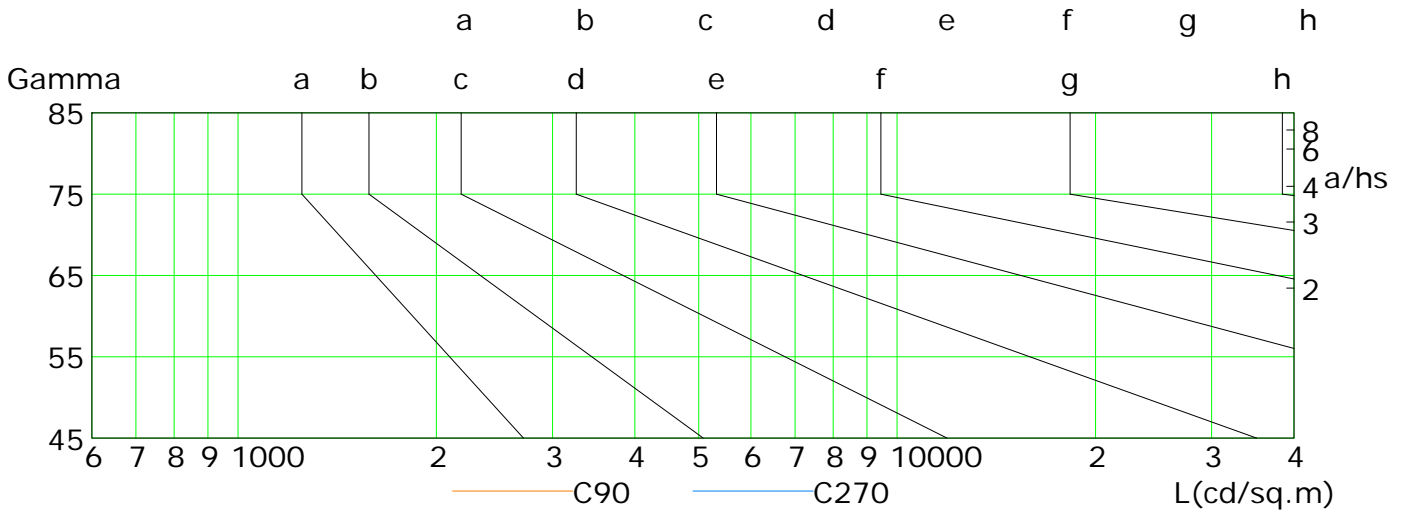
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.979 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	88	78	69	58	47	36	24	13	4
C90	87	78	68	58	47	36	25	15	8
C180	87	78	68	58	47	36	24	13	4
C270	91	82	73	63	53	42	31	20	11

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

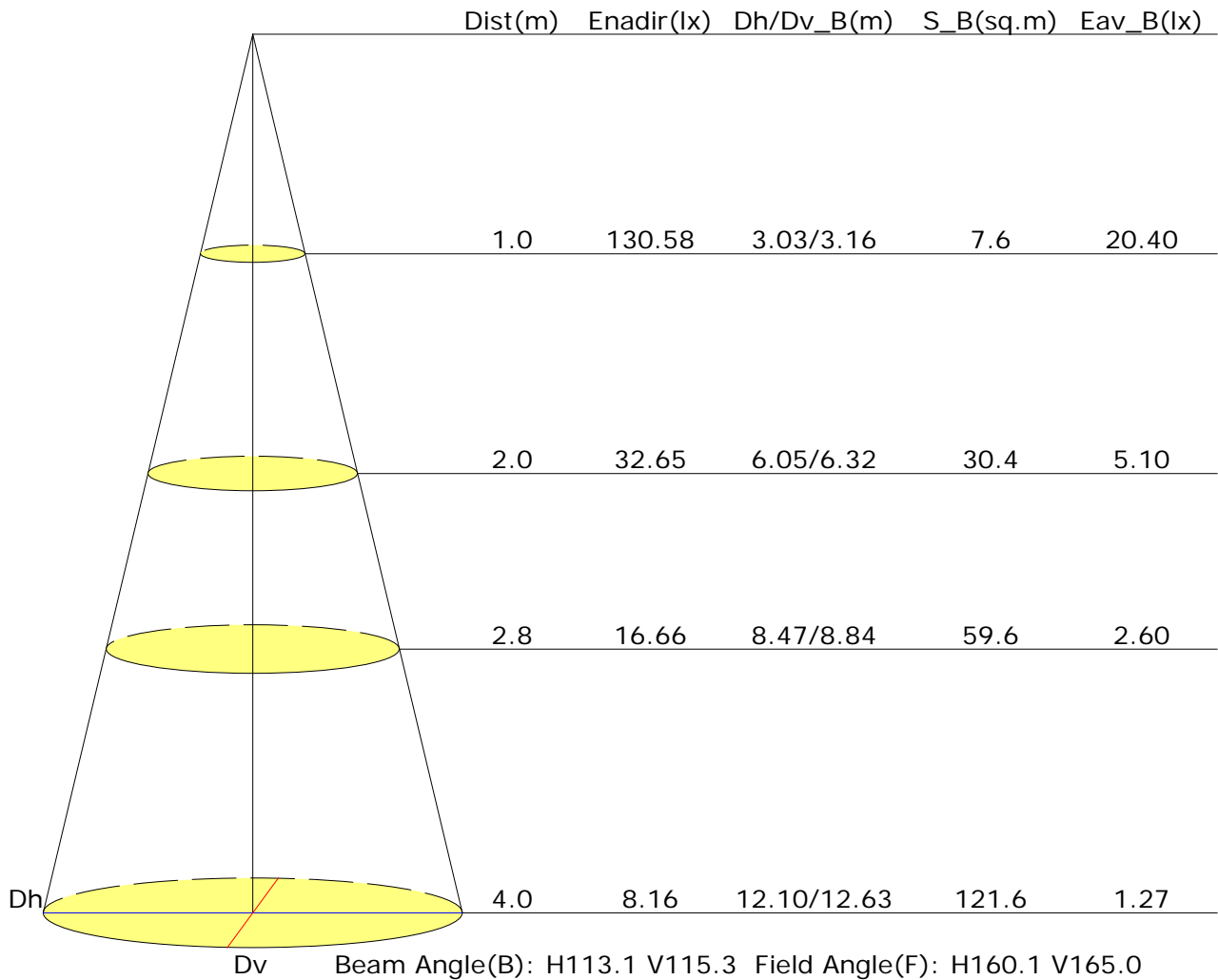
Distance: 7.979 m

Humidity:

Inspector:

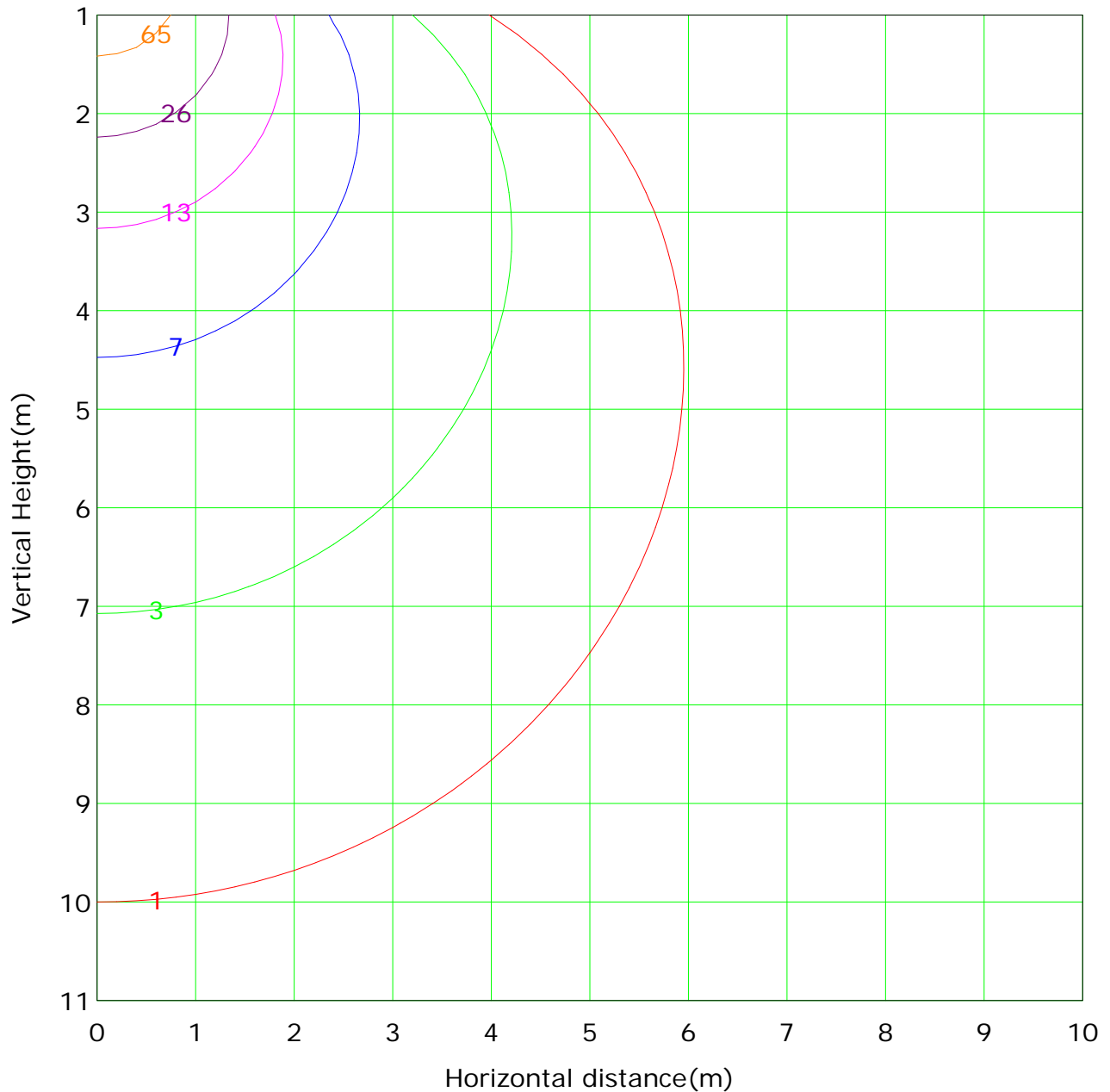


Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 130.6 lx
— (1%): 1.3 lx	— (2%): 2.6 lx	
— (5%): 6.5 lx	— (10%): 13.1 lx	
— (20%): 26.1 lx	— (50%): 65.3 lx	
— (100%): 130.6 lx		

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:



Report No.:

Test Time: 21/09/2022 11:43

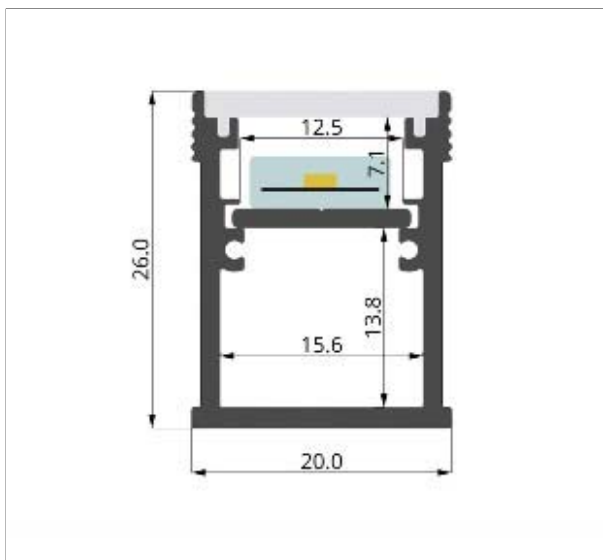
Luminaire Property

Luminaire Manufacturer: Lighting Line
 Luminaire Description: LLP-FL01-21 + LLD-21-FM
 Lamp Description: Strip 14,4W/m 60led/m Number of Lamps: 1
 Lumens per Lamp: 1579 lm Voltage: 24.0 V
 Current: 0.594 A Power: 14.24 W
 Power Factor: 1.000

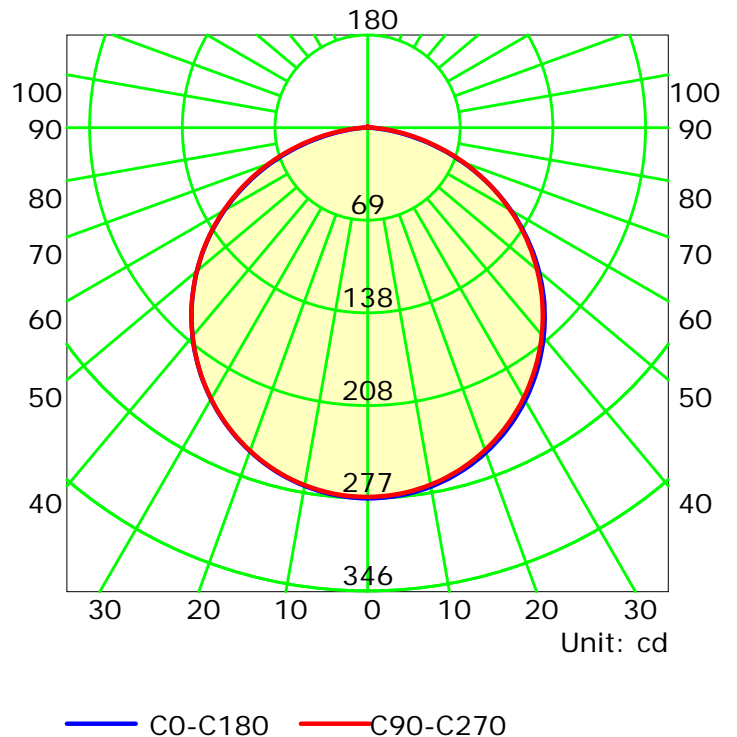
Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 1579.0 lm
Measurement Flux: 800.4 lm	Efficiency: 50.69%
Downward Ratio: 50.41%	Upward Ratio: 0.28%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.2, 161.8, 161.3, 161.2	
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.4, 113.5, 113.6, 113.5	
Luminaire Efficacy Rating (LER): 56.26	Central Intensity: 277.46 cd
Max. Intensity: 277.46 cd	Pos of Max. Intensity: H0 V0
S/MH(C0/C180): 1.26	S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve

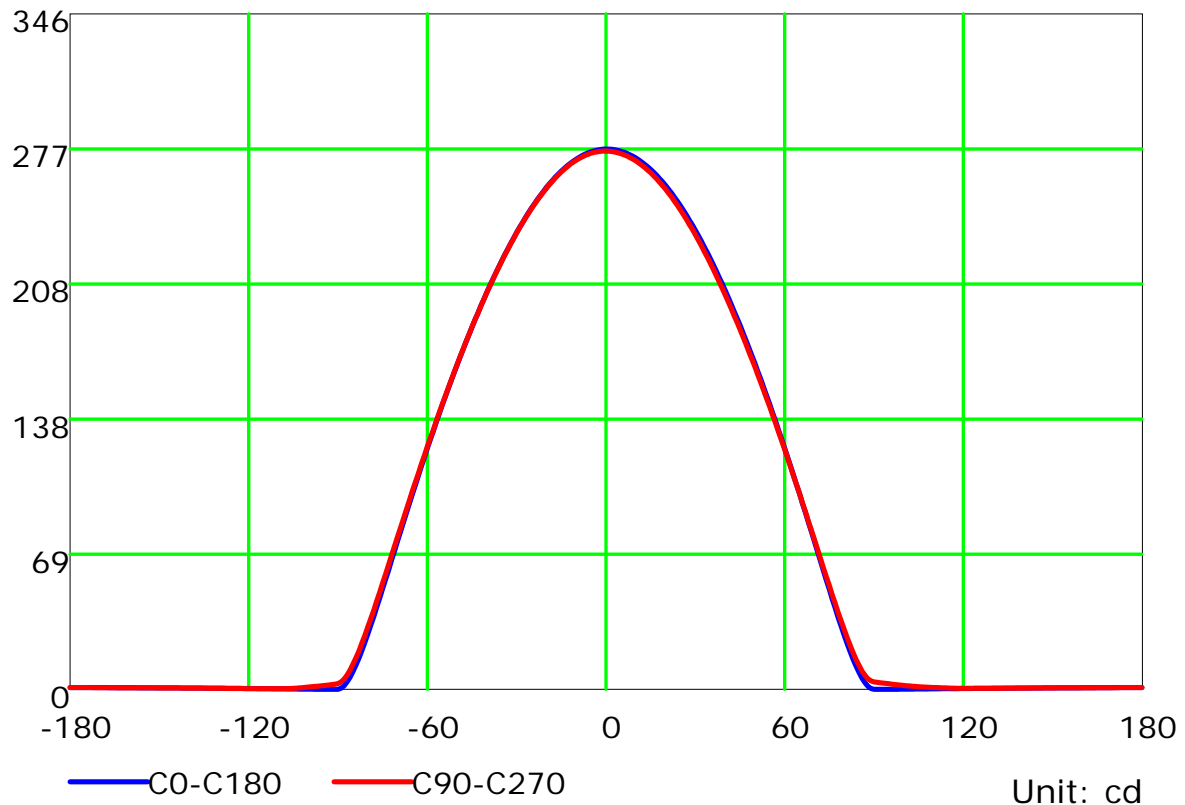
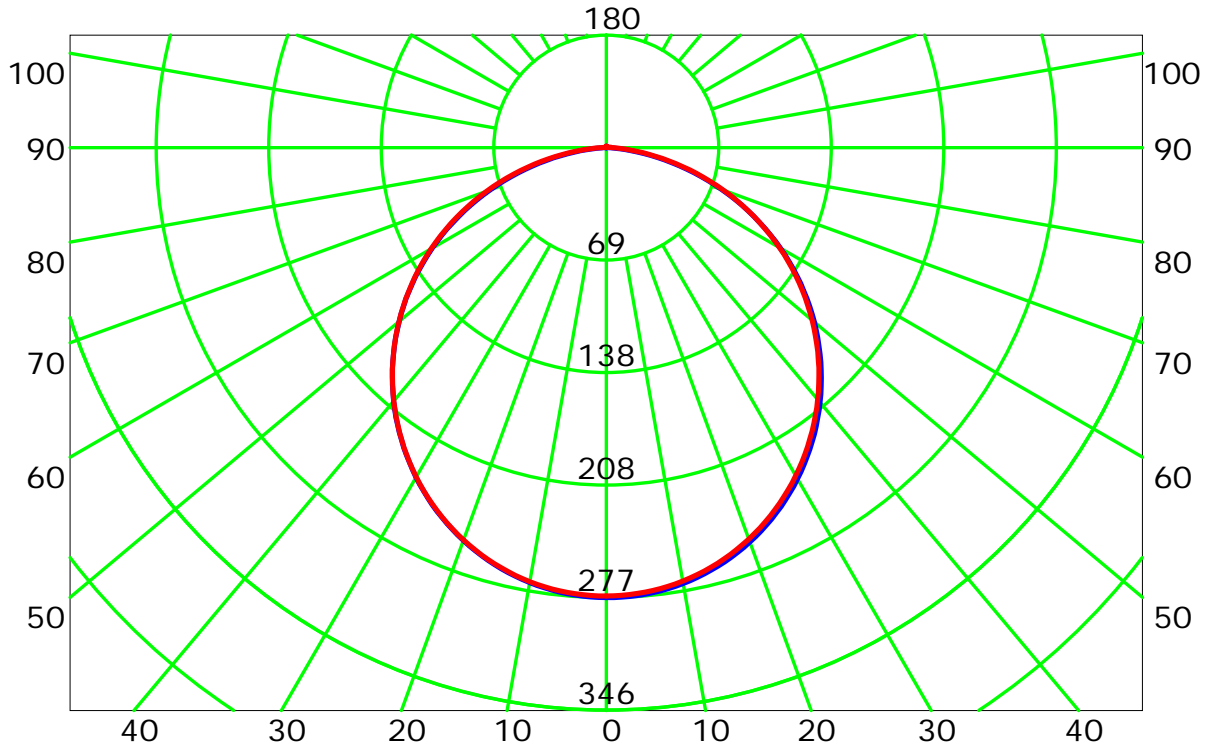


C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.979 m
 Humidity:
 Inspector:



Luminous Intensity Distribution Curve

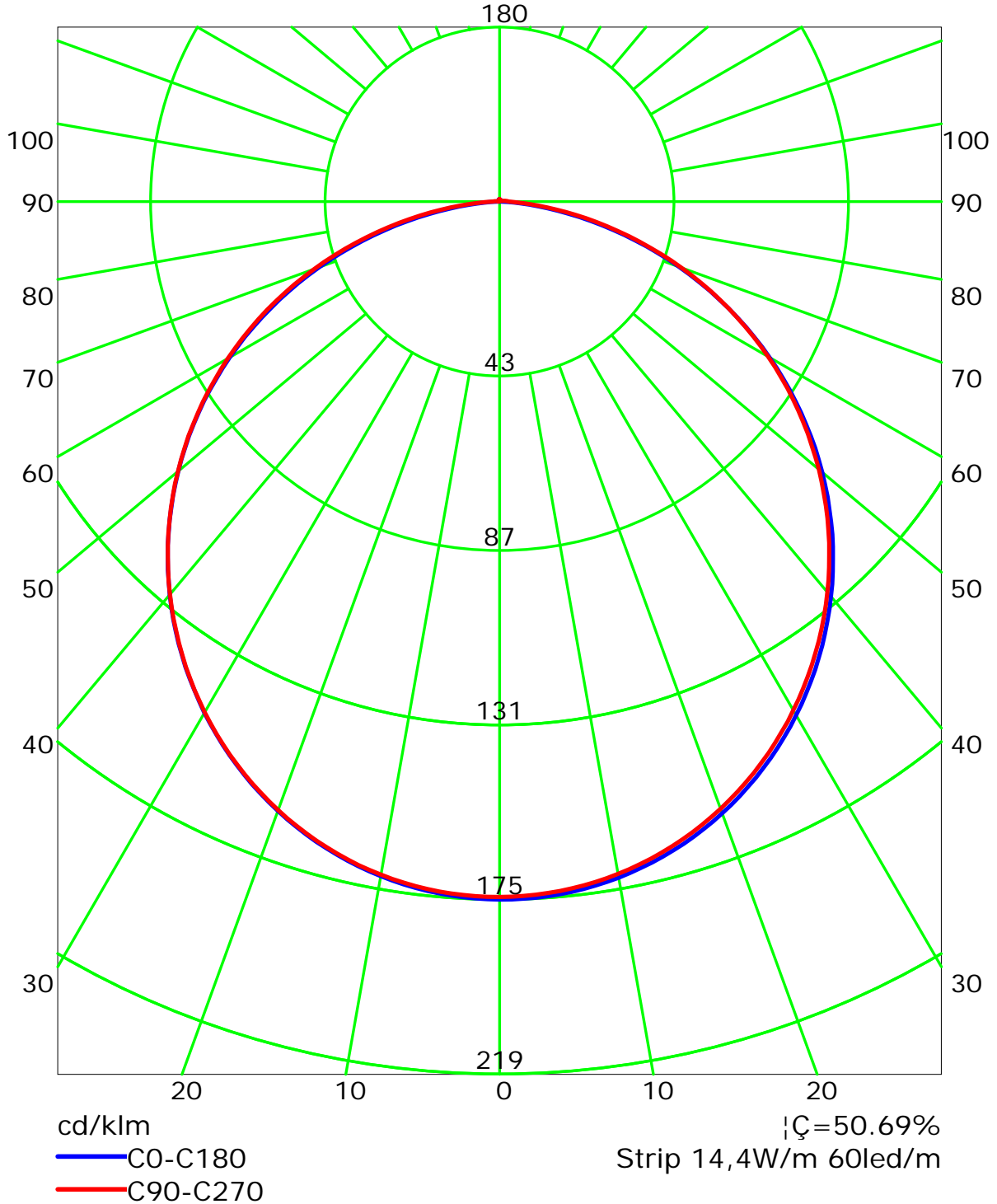


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:



Luminous Intensity Distribution Curve(cd/klm)

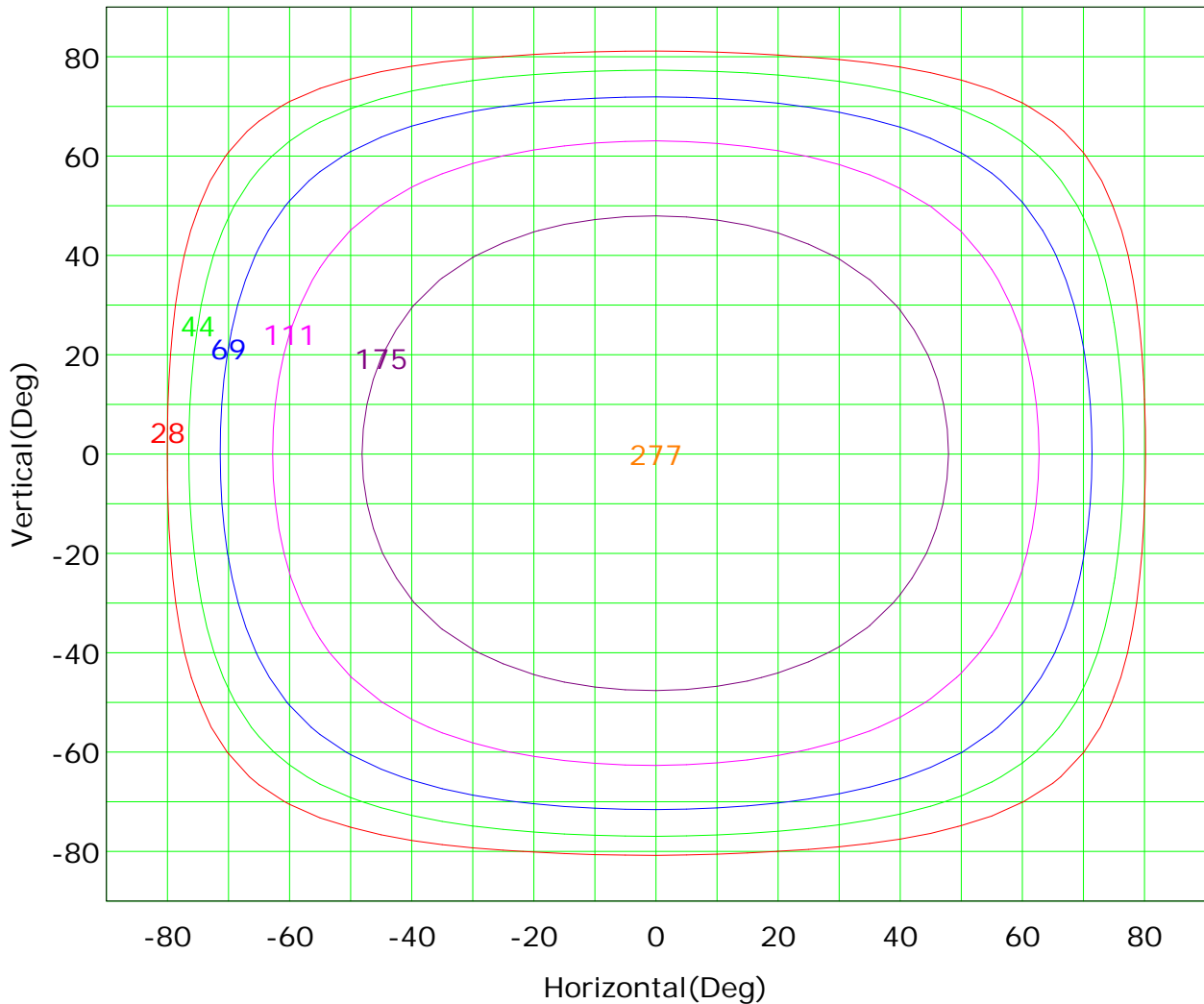


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector:



Isocandela (rectangle)



Imax (100%): 277 cd

— (10%):	28 cd	— (16%):	44 cd
— (25%):	69 cd	— (40%):	111 cd
— (63%):	175 cd	— (100%):	277 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

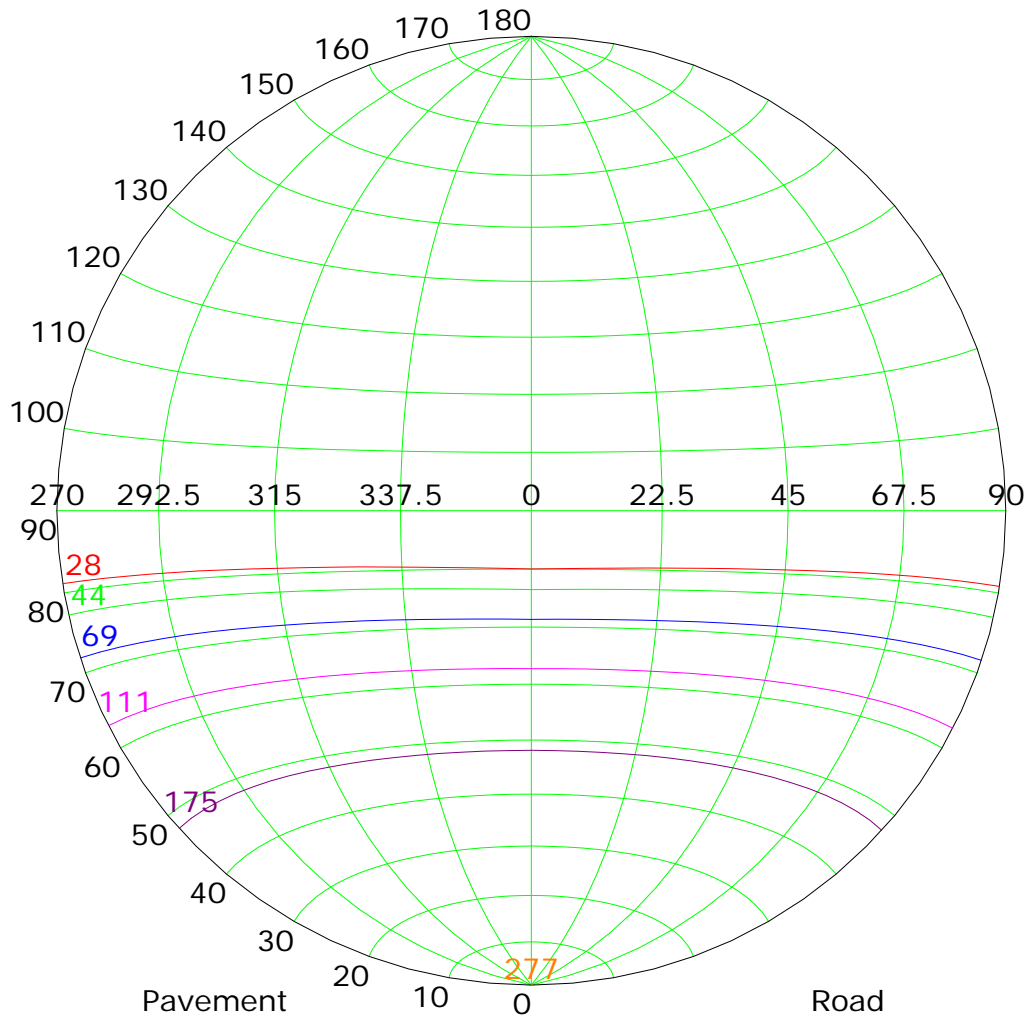
Distance: 7.979 m

Humidity:

Inspector:



Isocandela (sphere)



Imax (100%): 277 cd

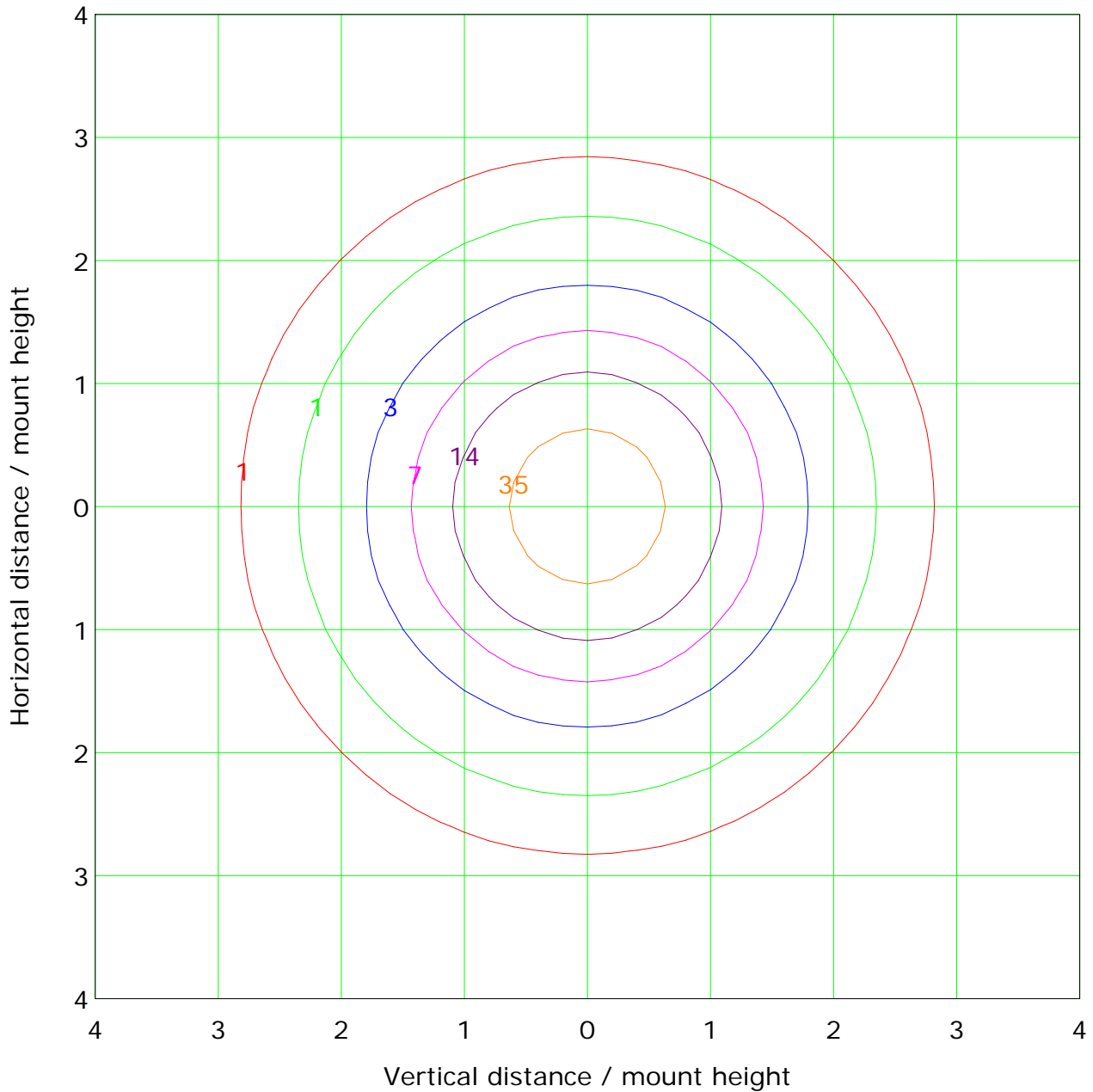
— (10%):	28 cd	— (16%):	44 cd
— (25%):	69 cd	— (40%):	111 cd
— (63%):	175 cd	— (100%):	277 cd

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.979 m
 Humidity:
 Inspector:



IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 69.4 lx
— (1%):	0.7 lx	— (2%): 1.4 lx
— (5%):	3.5 lx	— (10%): 6.9 lx
— (20%):	13.9 lx	— (50%): 34.7 lx
— (100%):	69.4 lx	

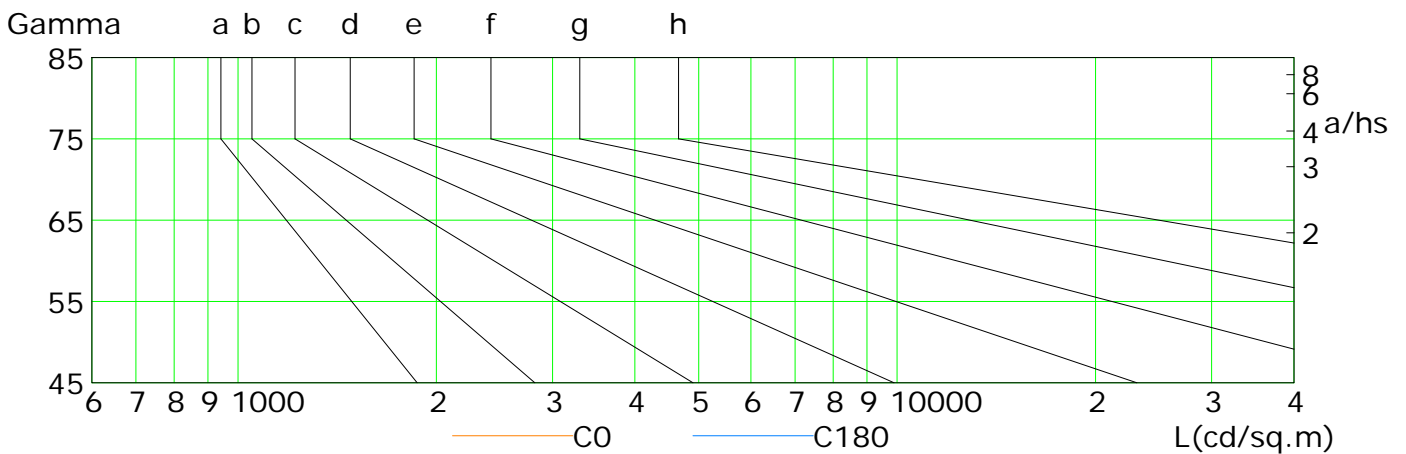
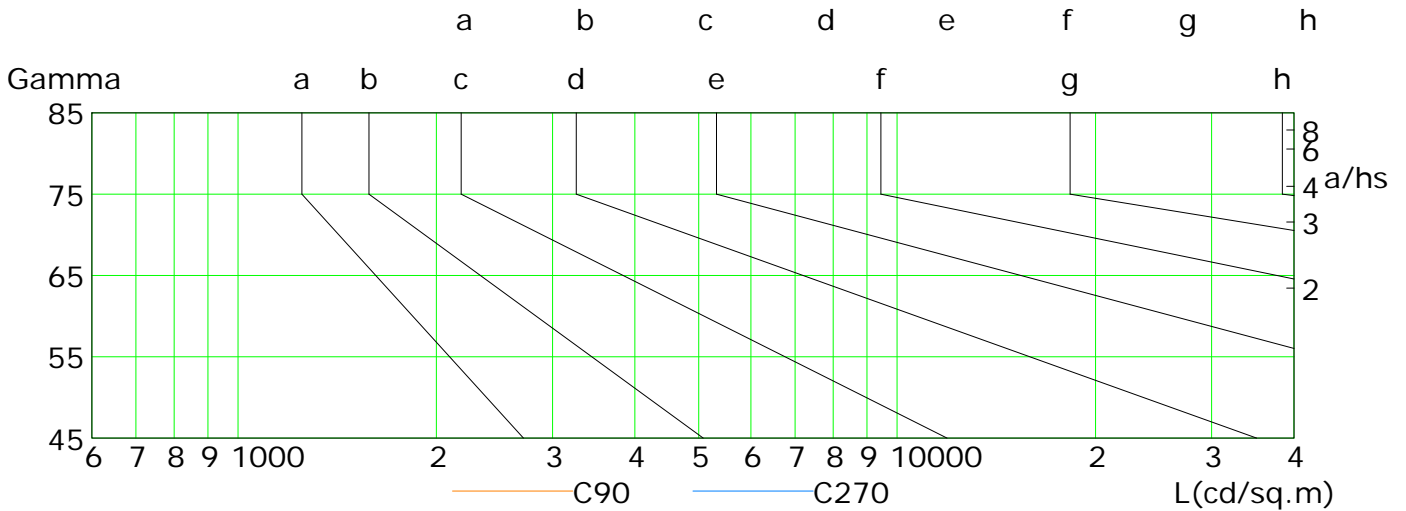
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.979 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	187	167	146	124	100	76	51	28	9
C90	185	166	145	123	101	77	53	31	12
C180	186	167	146	124	100	76	52	28	9
C270	186	167	146	125	102	78	55	32	13

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

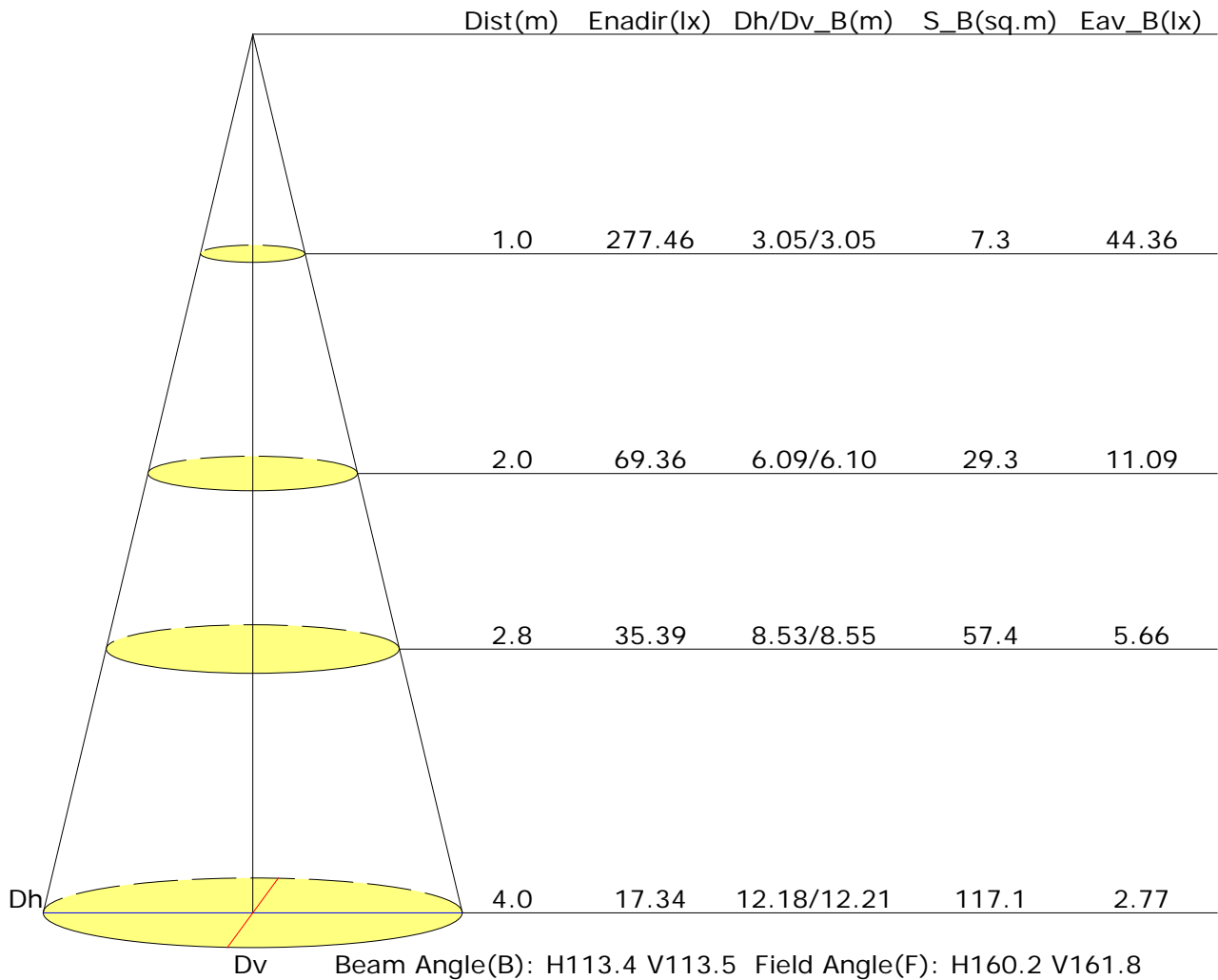
Distance: 7.979 m

Humidity:

Inspector:

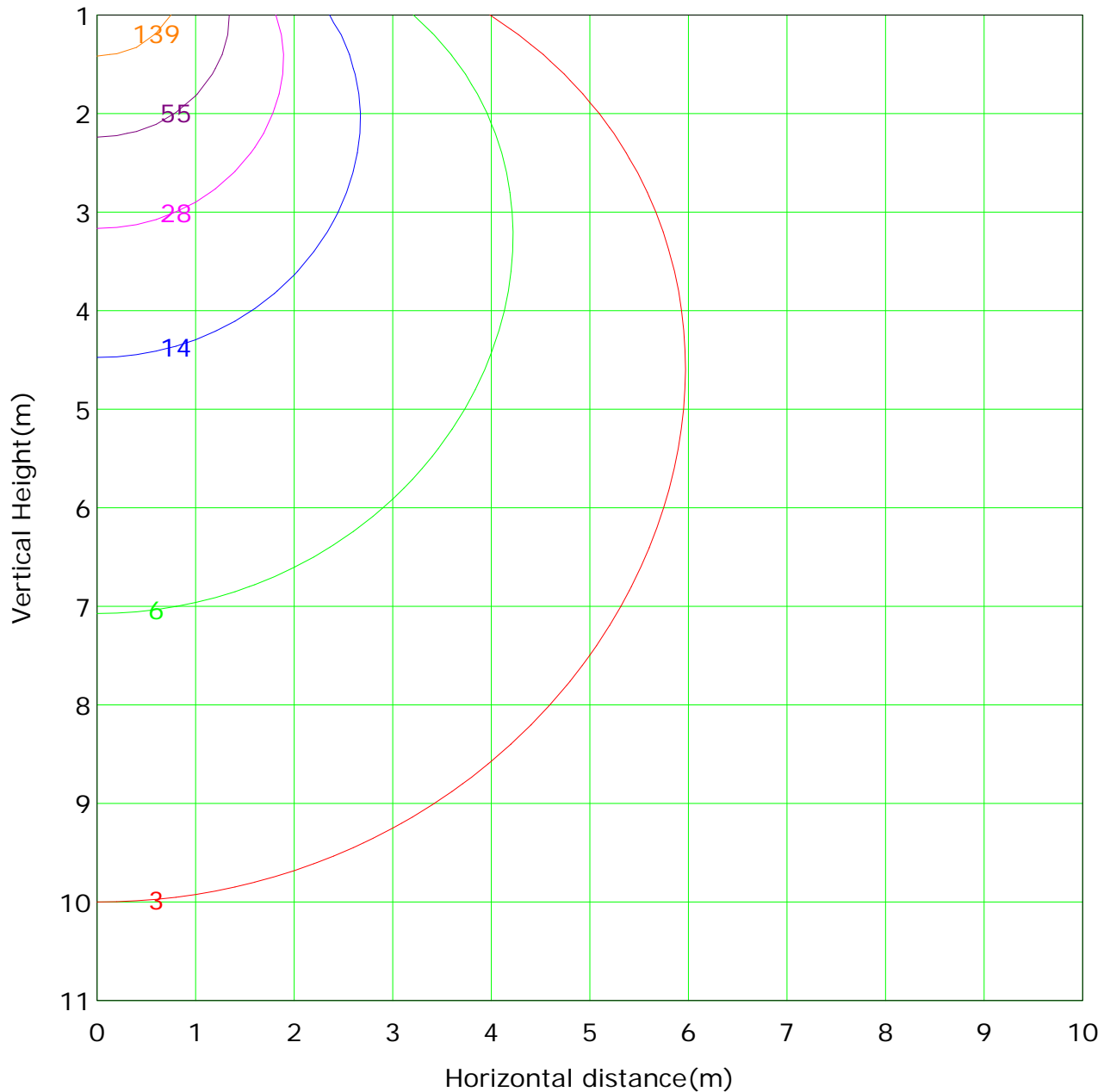


Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 277.5 lx
(1%): 2.8 lx	(2%): 5.5 lx	(10%): 27.7 lx
(5%): 13.9 lx	(20%): 55.5 lx	(50%): 138.7 lx
(100%): 277.5 lx		

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.979 m
Humidity:
Inspector: