



Report No.:

Test Time: 01/08/2019 11:02

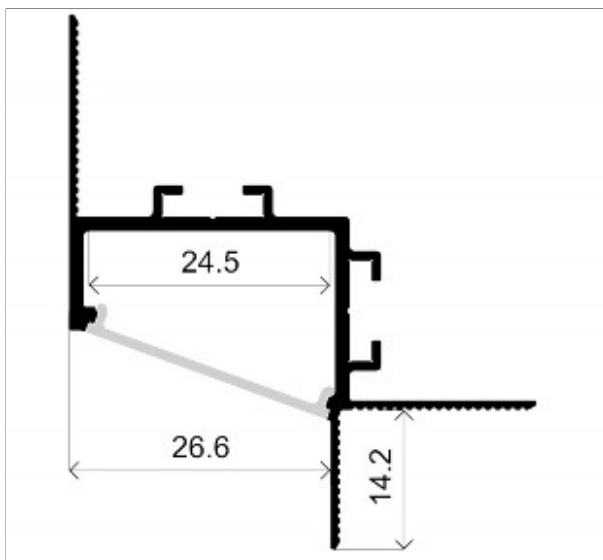
Luminaire Property

Luminaire Manufacturer: Lighting Line
 Luminaire Description: LLP-DW10-05 + LLD-05-FK
 Lamp Description: Strip 14,4W/m 60led/m Number of Lamps: 1
 Lumens per Lamp: 1271 lm Voltage: 24.0 V
 Current: 0.598 A Power: 14.35 W
 Power Factor: 1.000

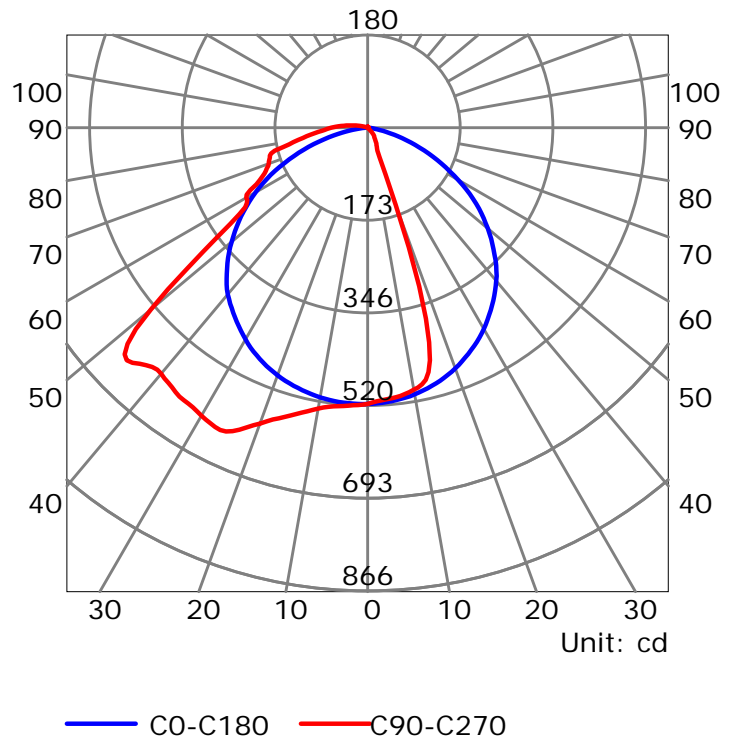
Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 1271.0 lm
Measurement Flux: 1270.9 lm	Efficiency: 99.99%
Downward Ratio: 98.36%	Upward Ratio: 1.63%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 153.7, 113.2, 117.3, 116.7	
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.1, 72.9, 86.6, 86.8	
Luminaire Efficacy Rating (LER): 88.62	Central Intensity: 517.05 cd
Max. Intensity: 629.24 cd	Pos of Max. Intensity: H270 V26
S/MH(C0/C180): 1.28	S/MH(C90/C270): 0.85

Picture Of Luminaire



Luminous Intensity Distribution Curve

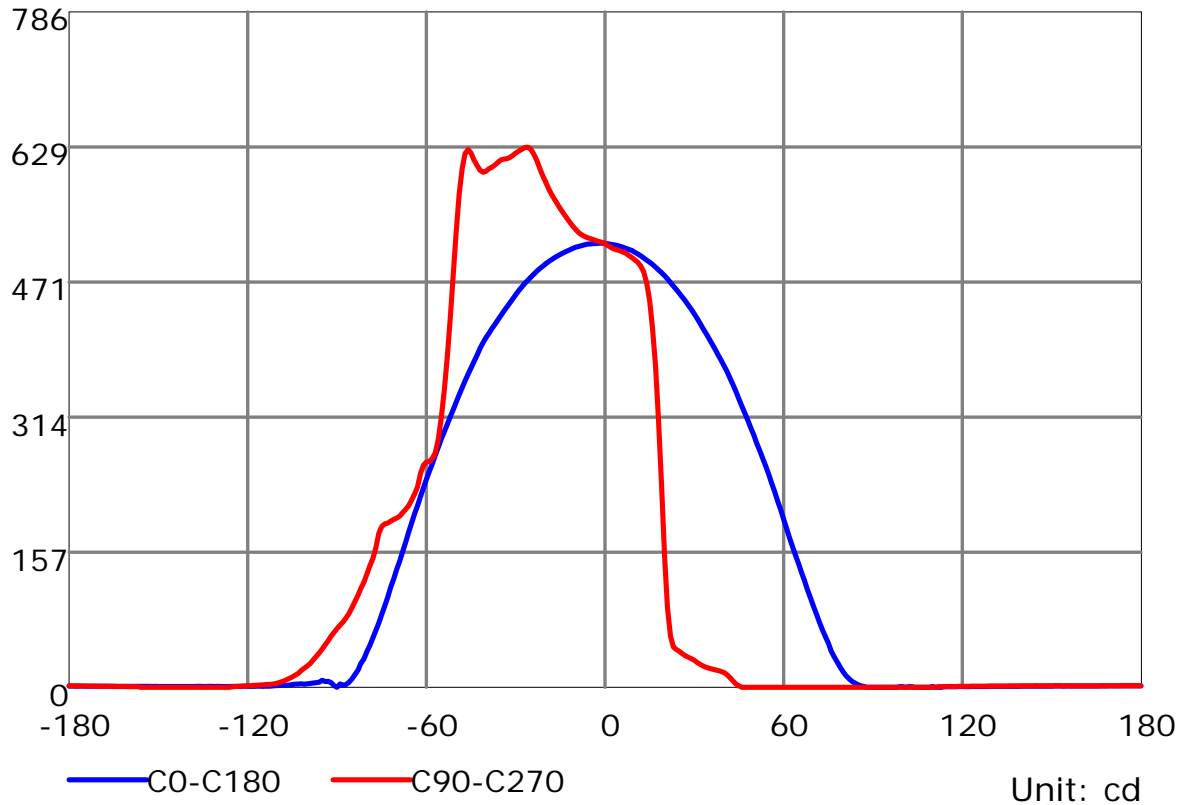
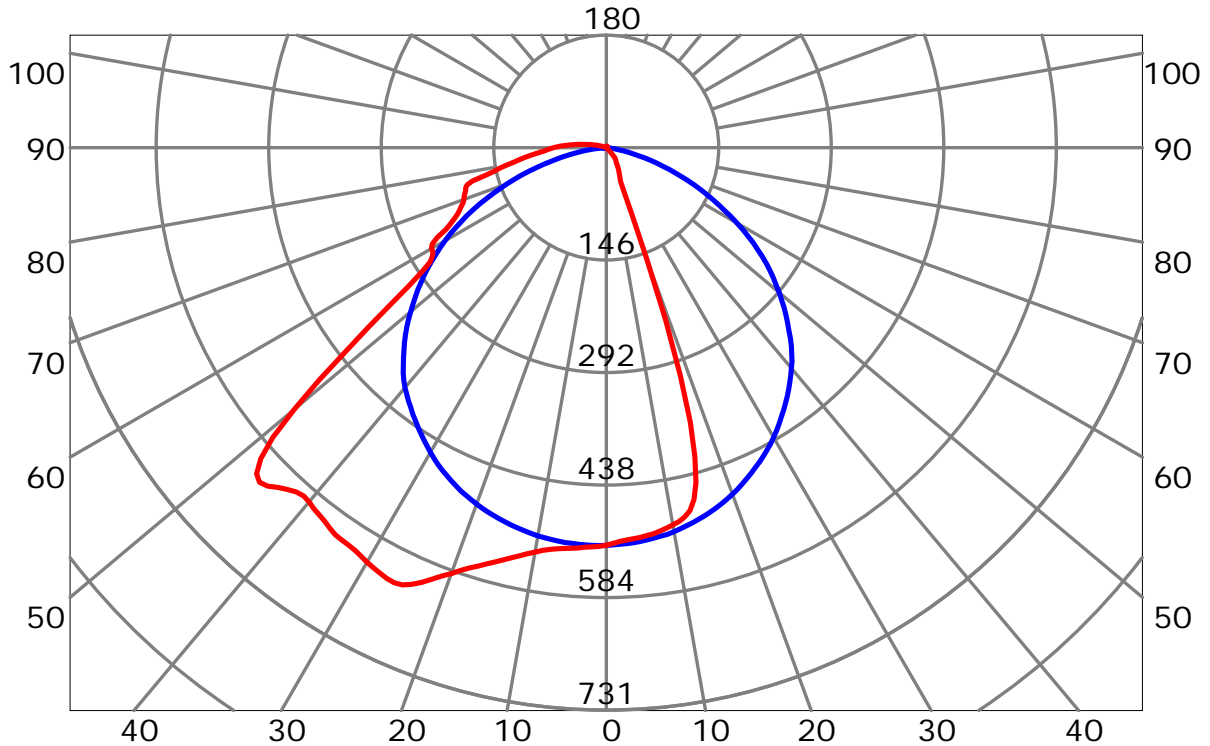


C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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



Luminous Intensity Distribution Curve

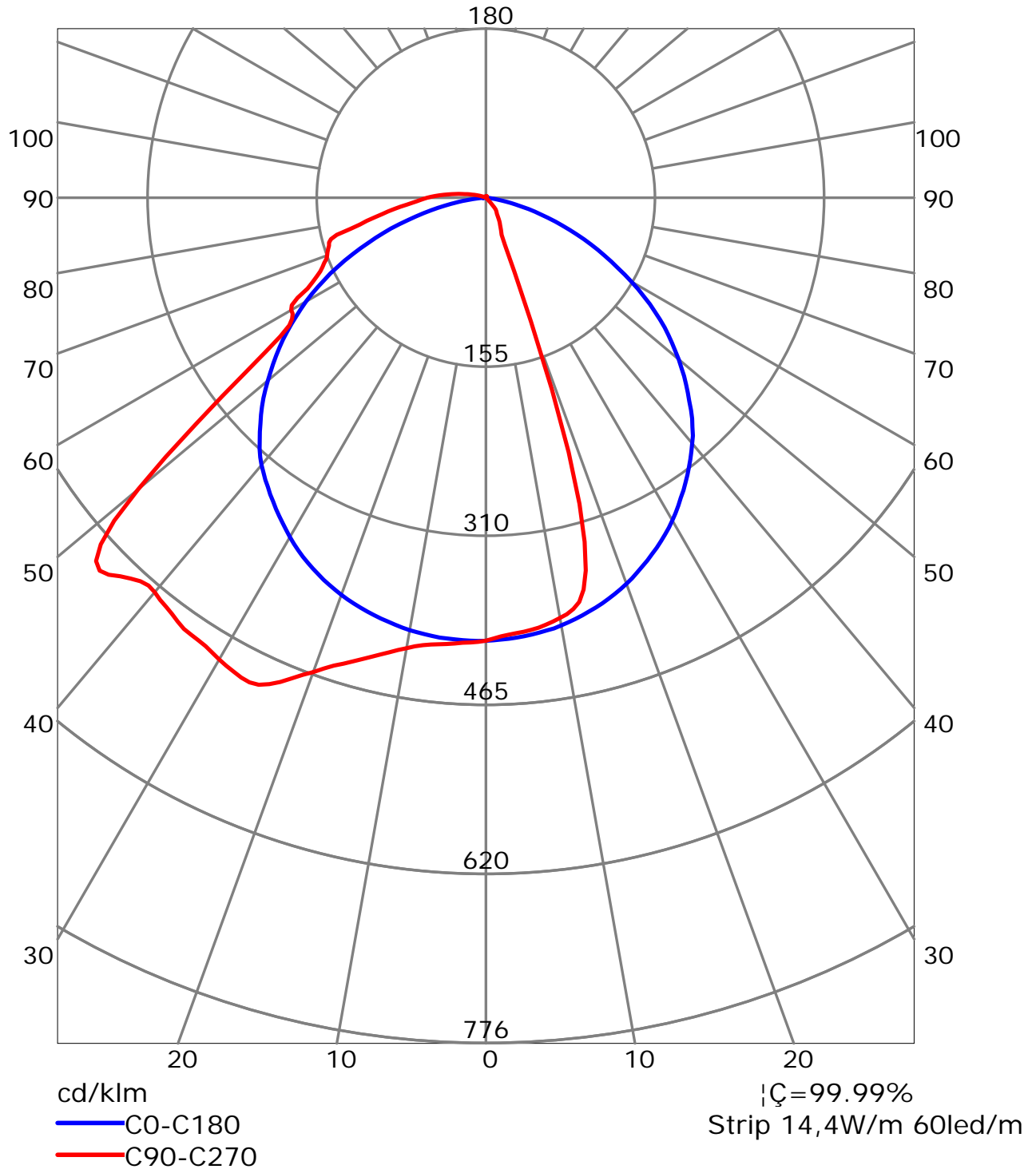


C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



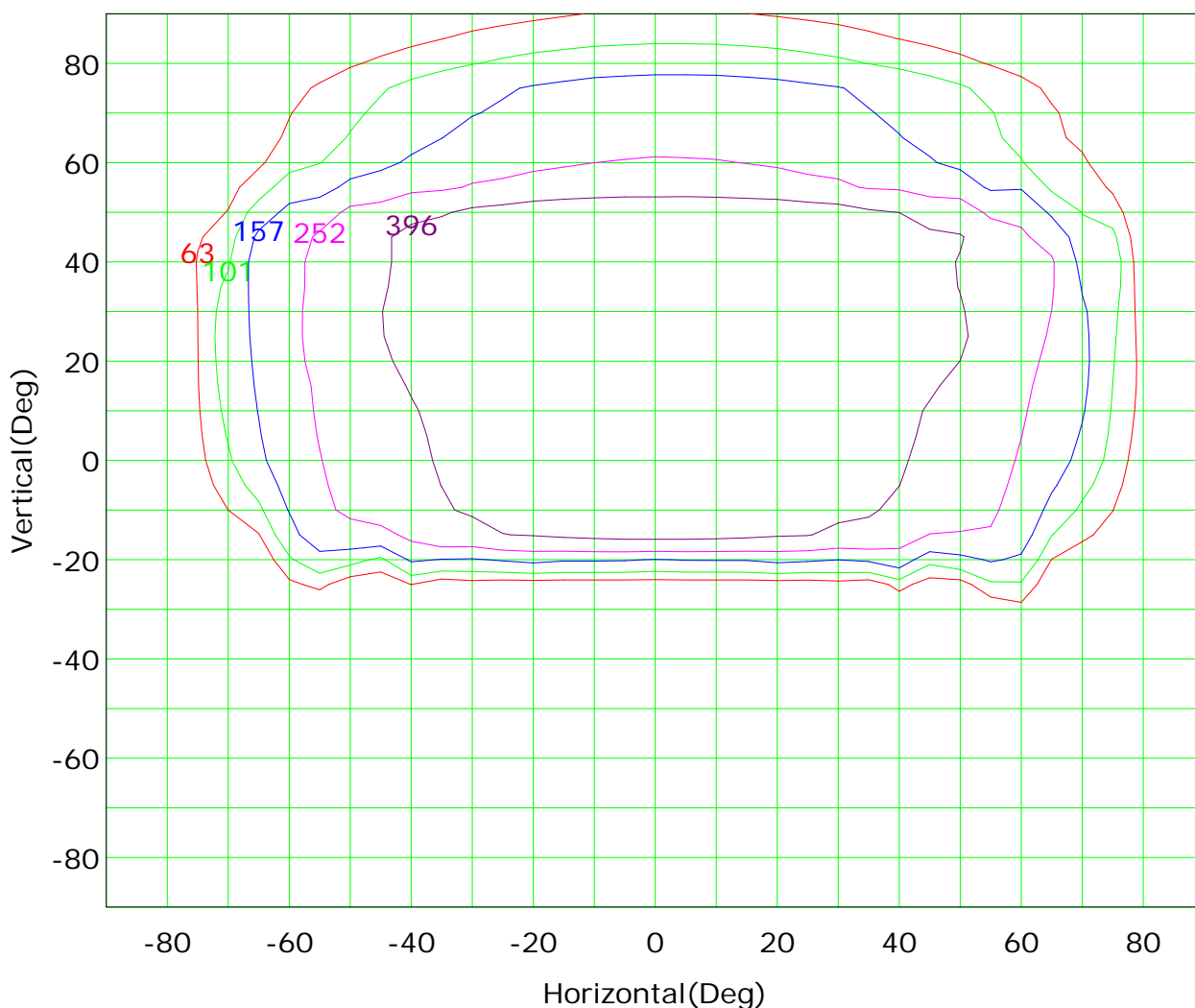
Luminous Intensity Distribution Curve(cd/klm)



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)



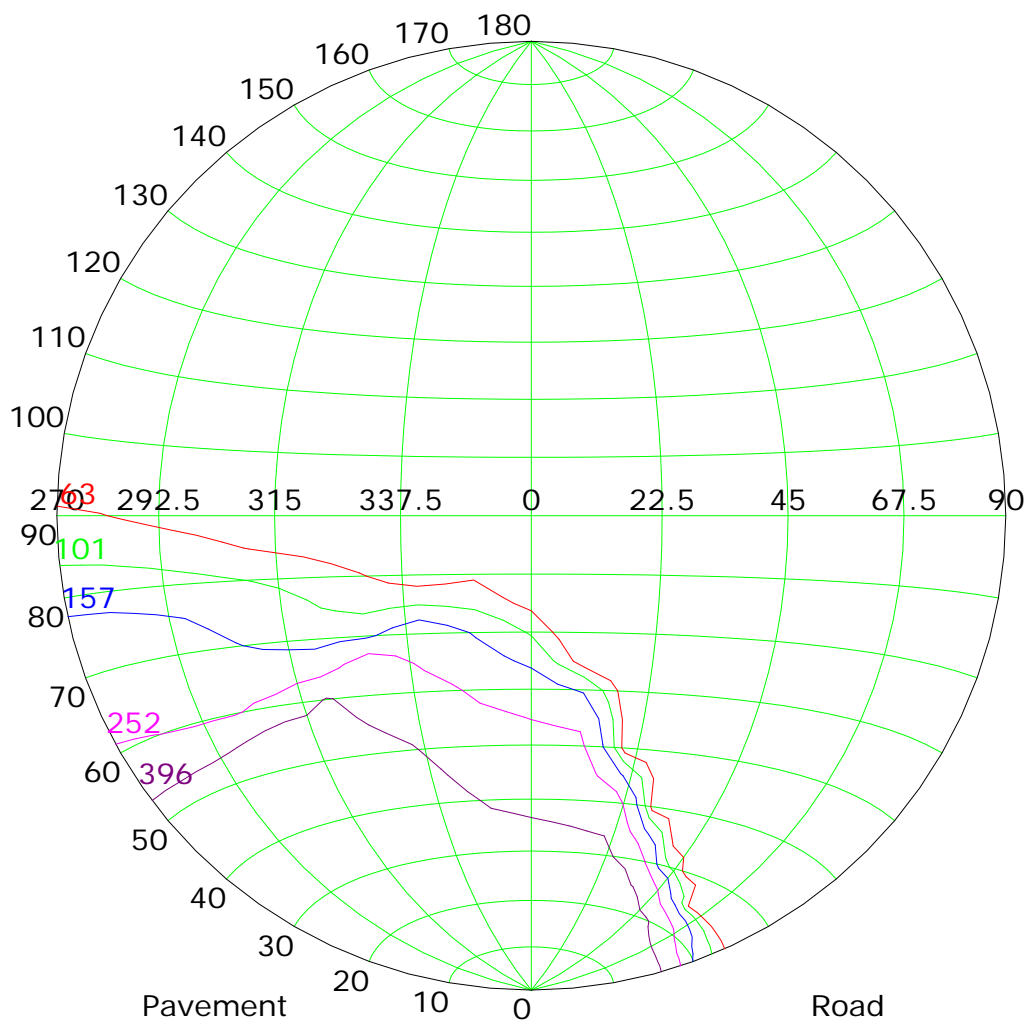
Imax (100%): 629 cd

— (10%):	63 cd	— (16%):	101 cd
— (25%):	157 cd	— (40%):	252 cd
— (63%):	396 cd	— (100%):	629 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%): 629 cd

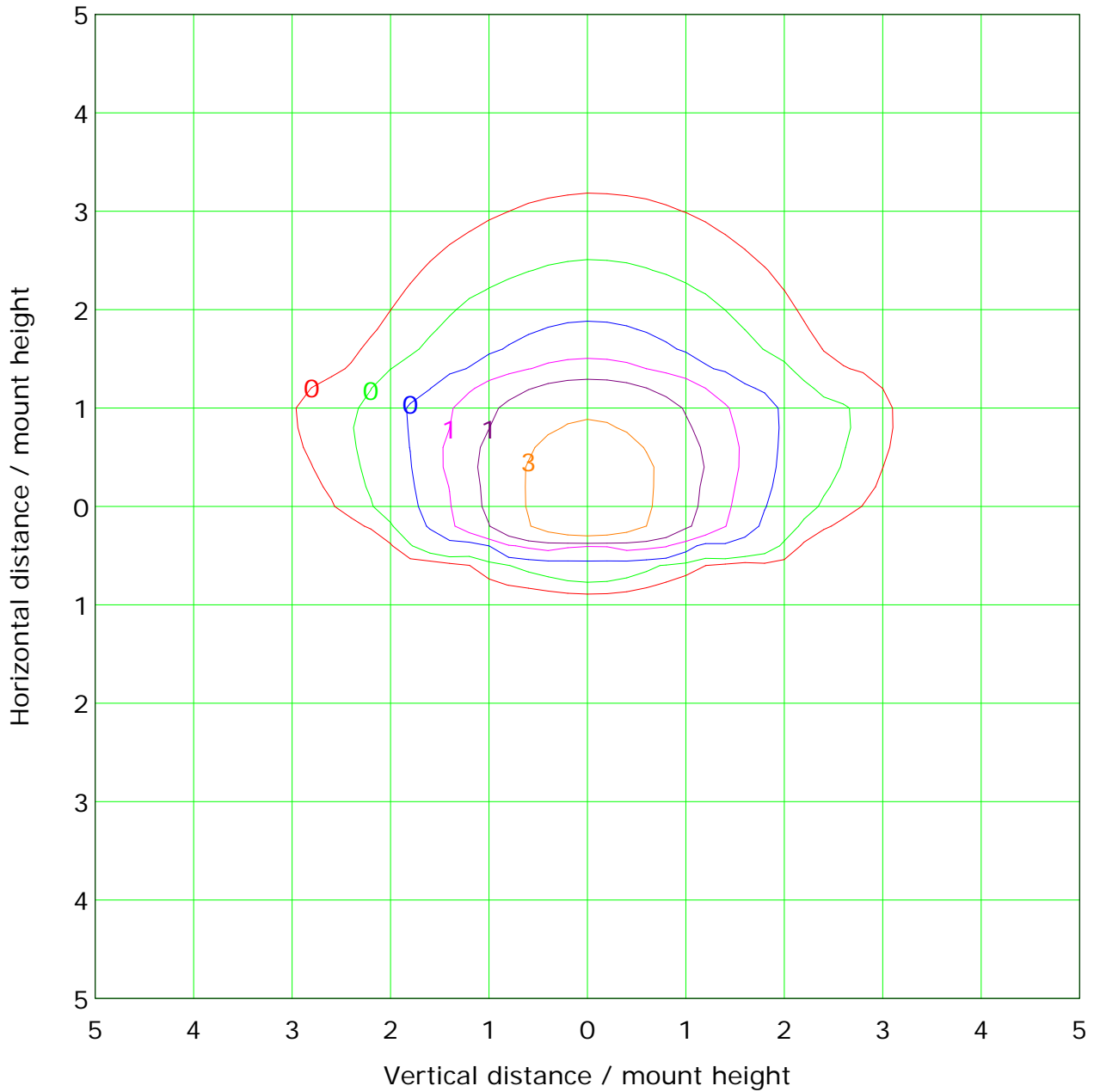
— (10%):	63 cd	— (16%):	101 cd
— (25%):	157 cd	— (40%):	252 cd
— (63%):	396 cd	— (100%):	629 cd

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%): 5.2 lx	
— (1%):	0.1 lx	— (2%):	0.1 lx
— (5%):	0.3 lx	— (10%):	0.5 lx
— (20%):	1.0 lx	— (50%):	2.6 lx
— (100%):	5.2 lx		

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

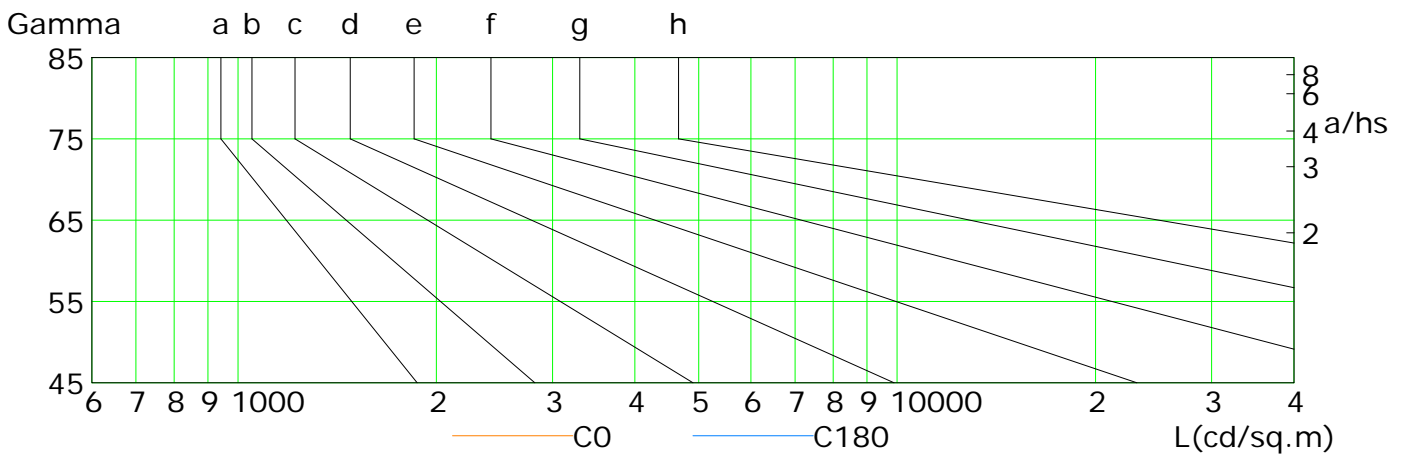
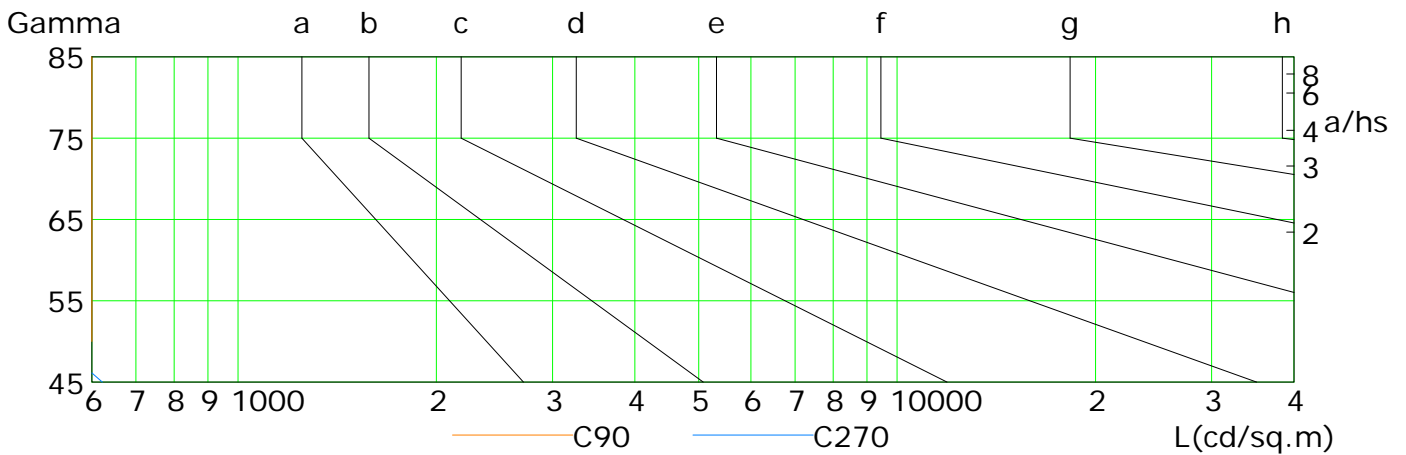
Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-2000
 Distance: 7.970 m
 Humidity:
 Inspector:



Lum Limit Curve

Dazzle	Quality	Illuminance (lx)								
		2000	1000	500	<=300					
1.15	A									
1.50	B									
1.85	C									
2.20	D									
2.55	E									

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	336	294	248	196	144	95	52	18	3
C90	2	0	0	0	0	0	0	0	0
C180	372	332	289	242	191	137	85	41	10
C270	622	530	314	262	218	197	187	132	93

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

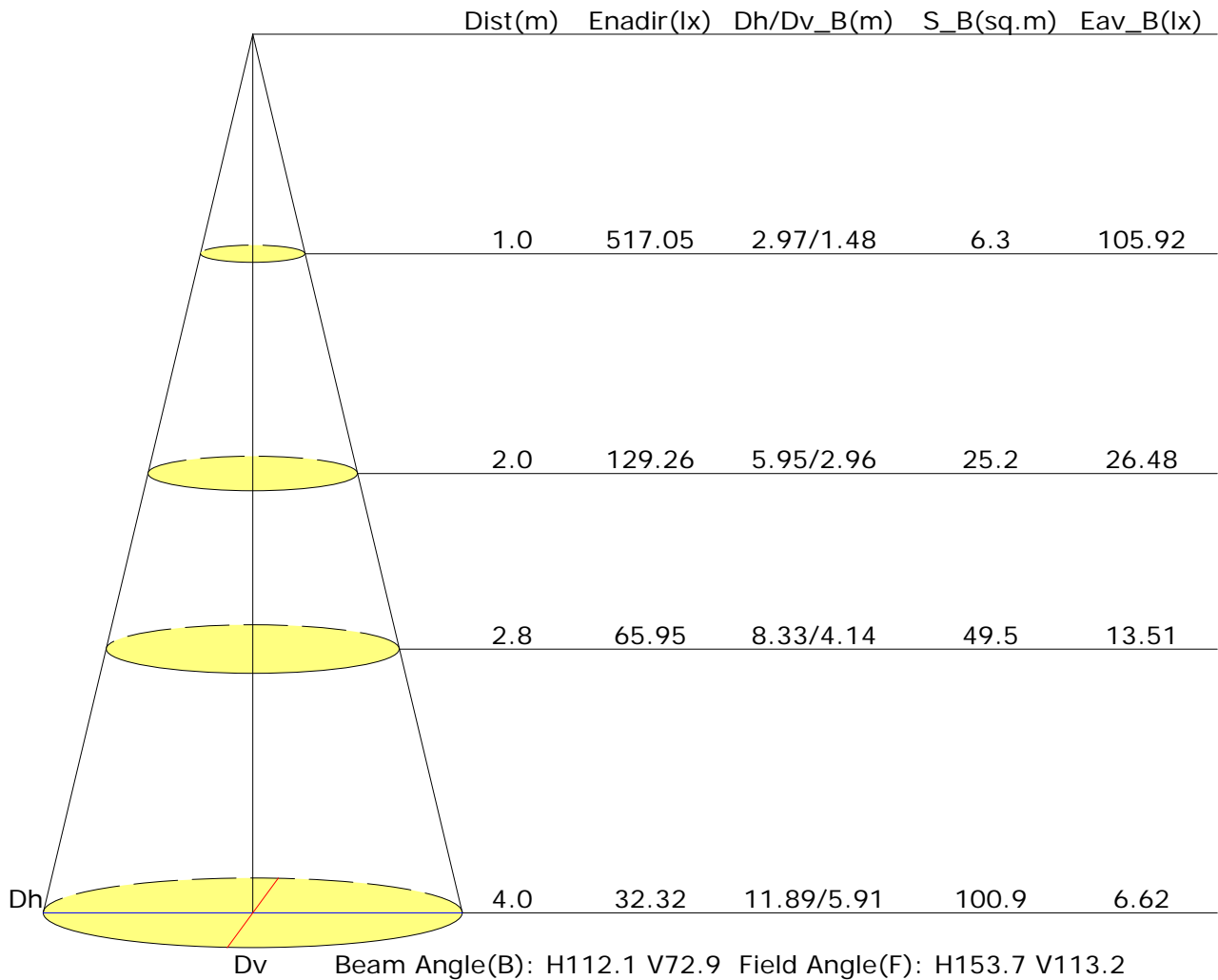
Distance: 7.970 m

Humidity:

Inspector:

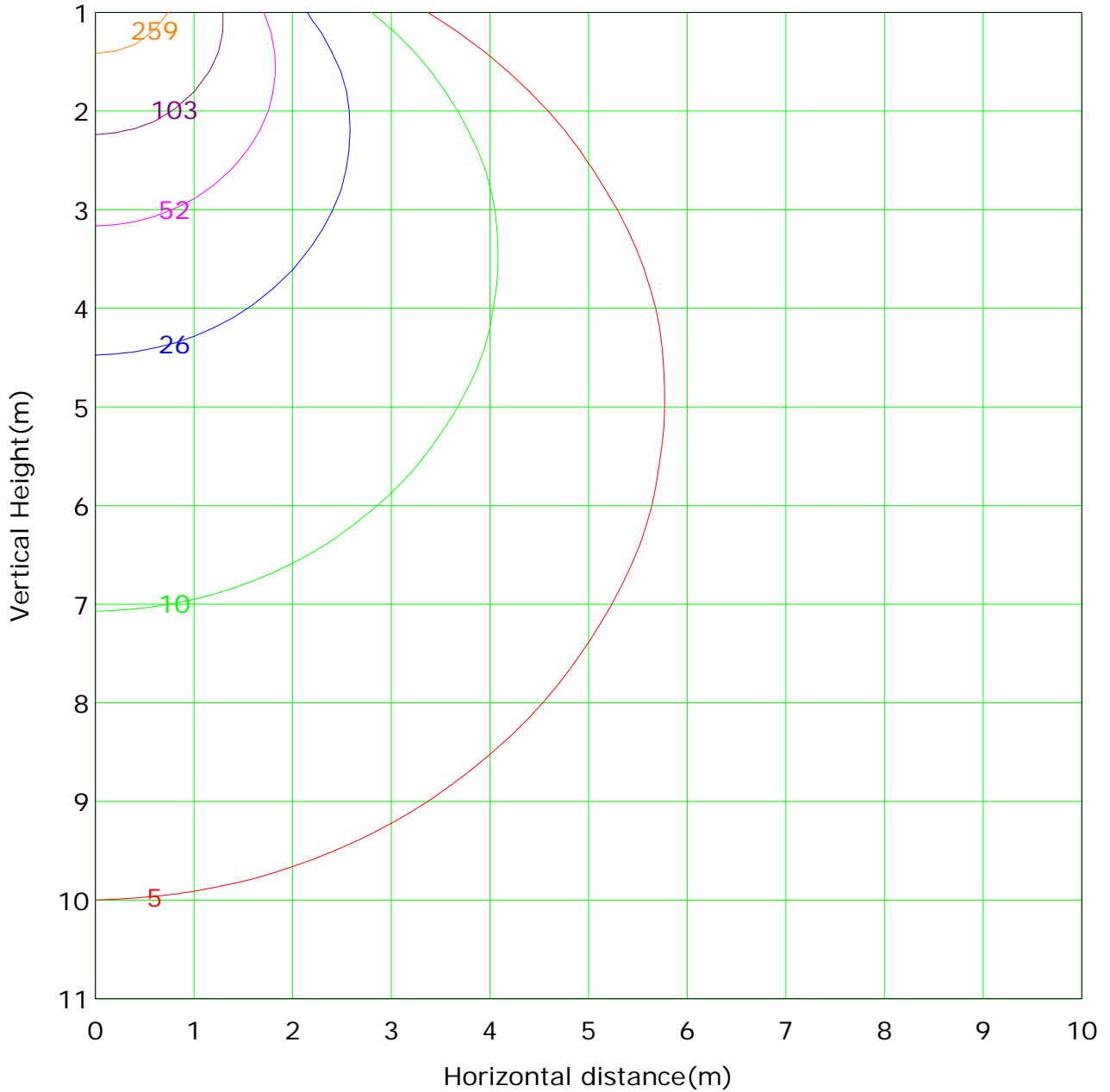


Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 517.0 lx
— (1%): 5.2 lx	— (2%): 10.3 lx	
— (5%): 25.9 lx	— (10%): 51.7 lx	
— (20%): 103.4 lx	— (50%): 258.5 lx	
— (100%): 517.0 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: 01/08/2019 10:02

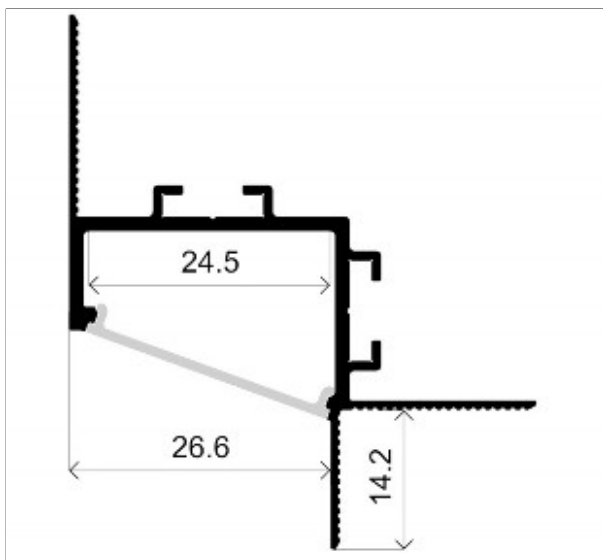
Luminaire Property

Luminaire Manufacturer: Lightng Line
 Luminaire Description: LLP-DW10-05 + LLD-05-FM
 Lamp Description: Strip 14,4W/m 60led/m Number of Lamps: 1
 Lumens per Lamp: 1005 lm Voltage: 24.0 V
 Current: 0.602 A Power: 14.44 W
 Power Factor: 1.000

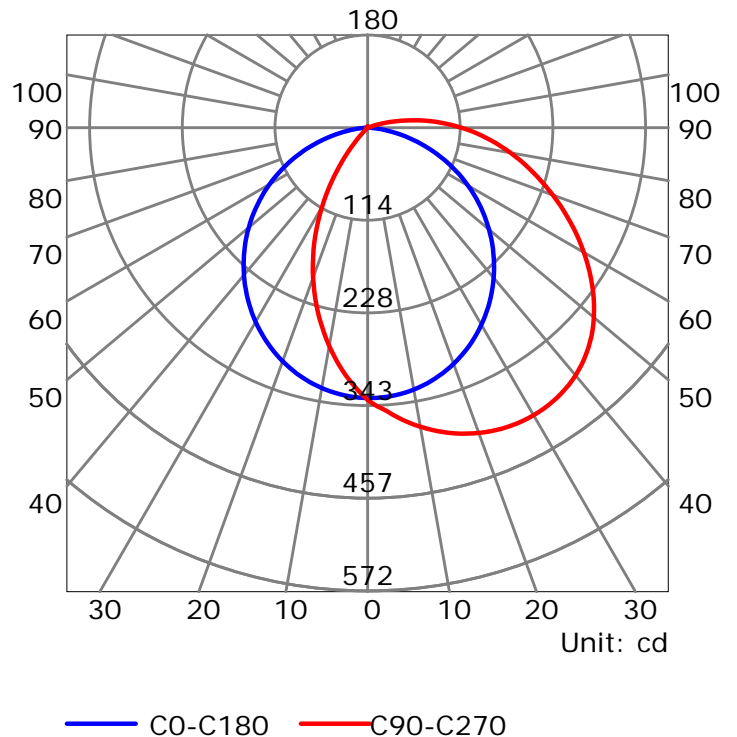
Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 1005.0 lm
Measurement Flux: 1004.5 lm	Efficiency: 99.95%
Downward Ratio: 96.53%	Upward Ratio: 3.42%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.0, 140.8, 145.2, 144.5	
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.5, 95.0, 99.2, 99.6	
Luminaire Efficacy Rating (LER): 69.61	Central Intensity: 334.07 cd
Max. Intensity: 410.18 cd	Pos of Max. Intensity: H90 V30
S/MH(C0/C180): 1.24	S/MH(C90/C270): 1.16

Picture Of Luminaire



Luminous Intensity Distribution Curve

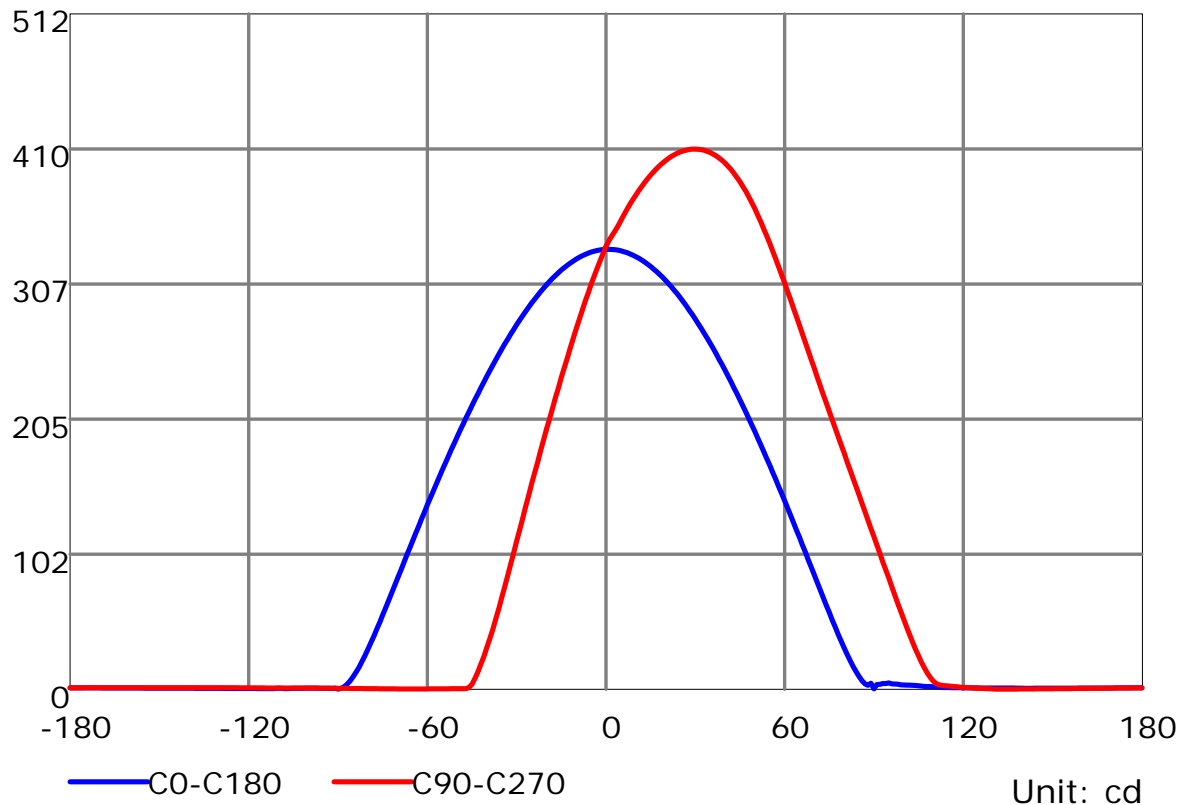
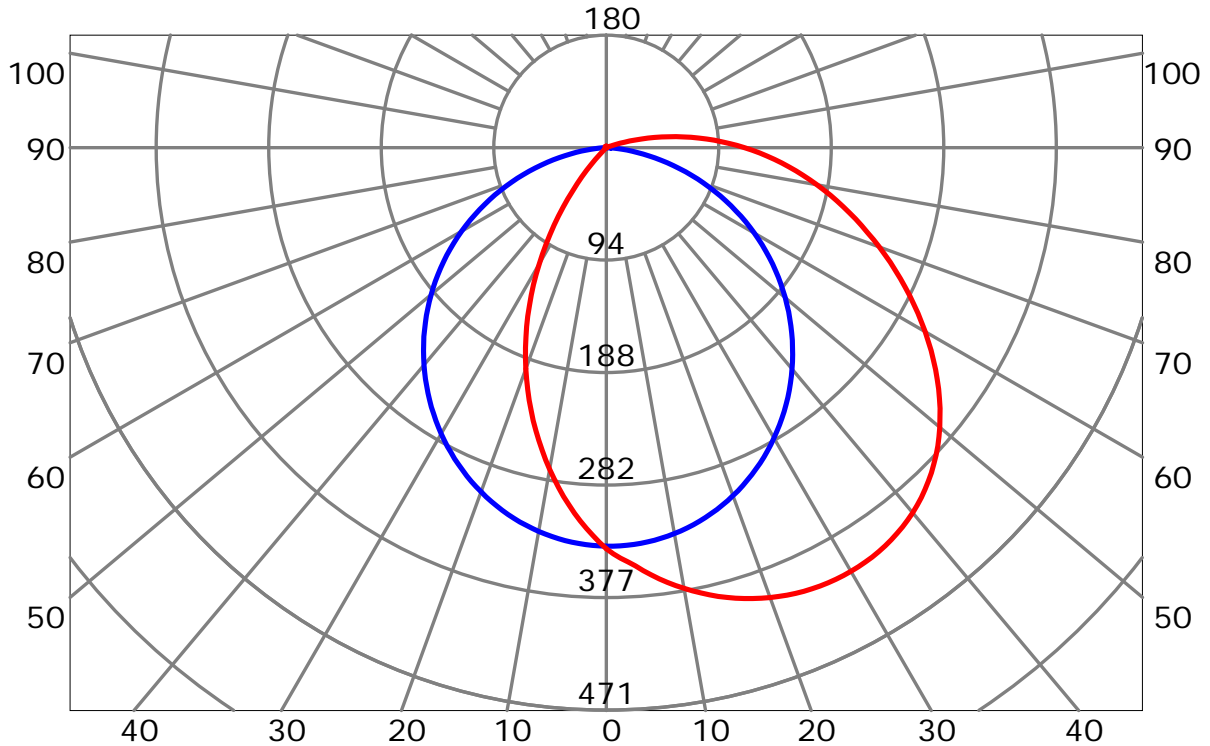


C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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



Luminous Intensity Distribution Curve

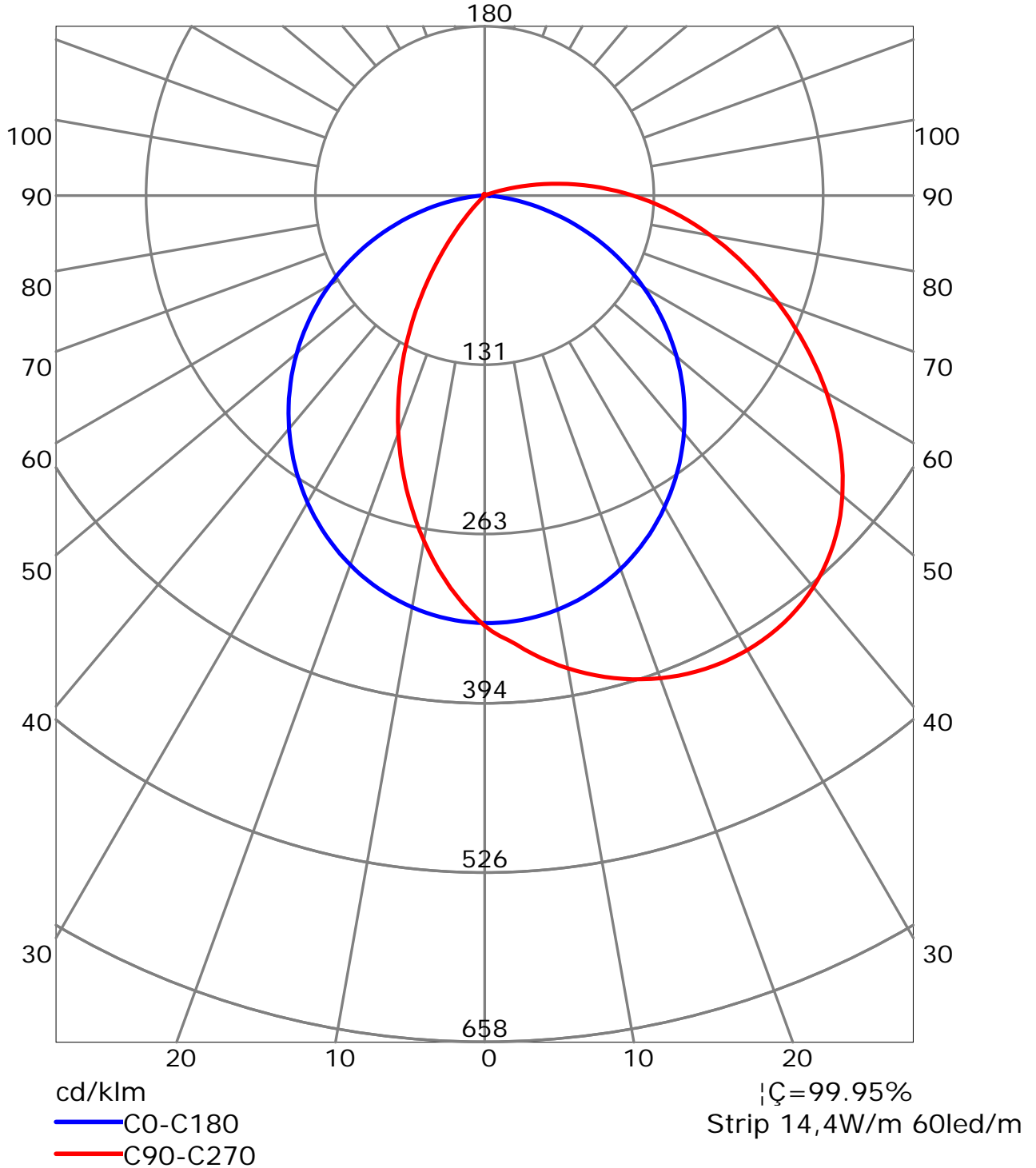


C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



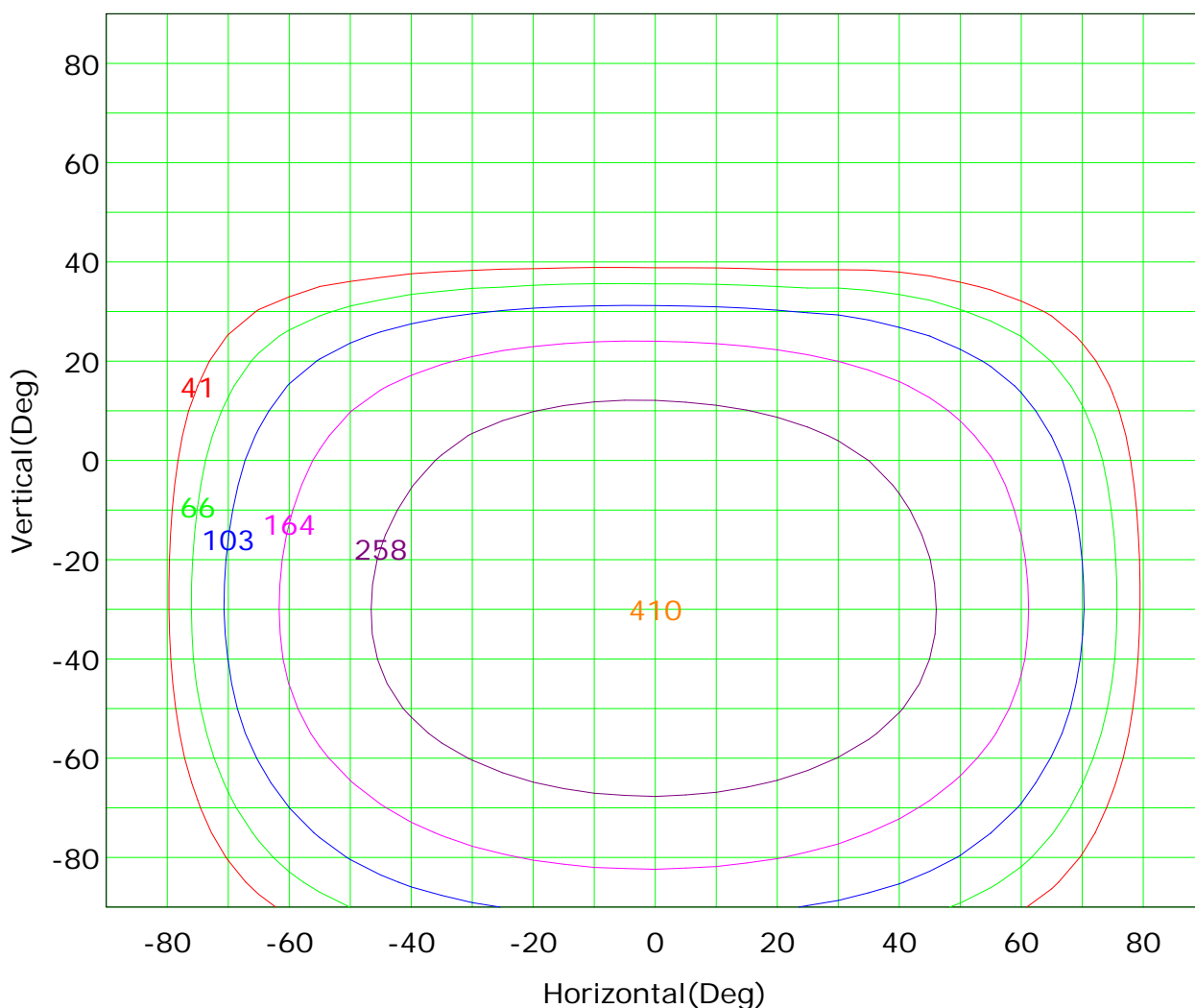
Luminous Intensity Distribution Curve(cd/klm)



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)



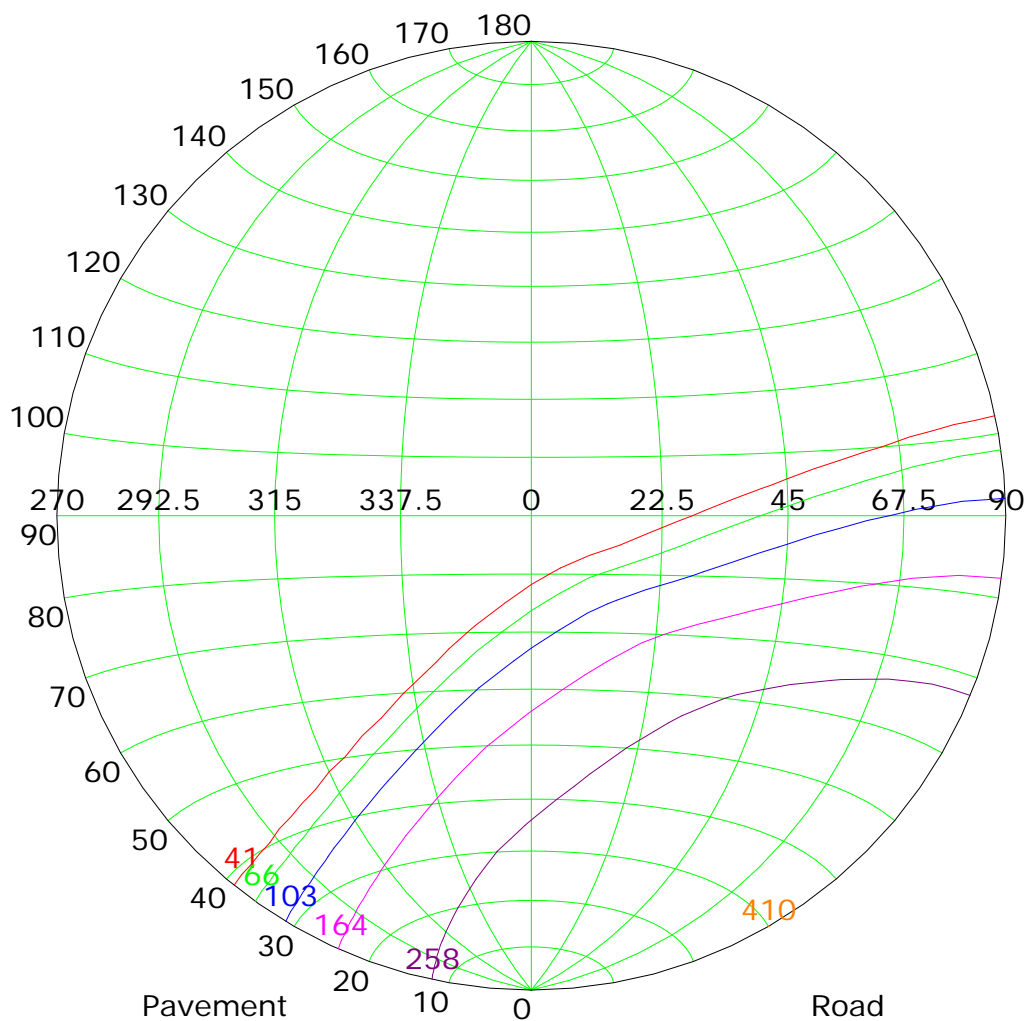
Imax (100%): 410 cd

- | | | | |
|-----------|--------|-----------|--------|
| — (10%): | 41 cd | — (16%): | 66 cd |
| — (25%): | 103 cd | — (40%): | 164 cd |
| — (63%): | 258 cd | — (100%): | 410 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%): 410 cd

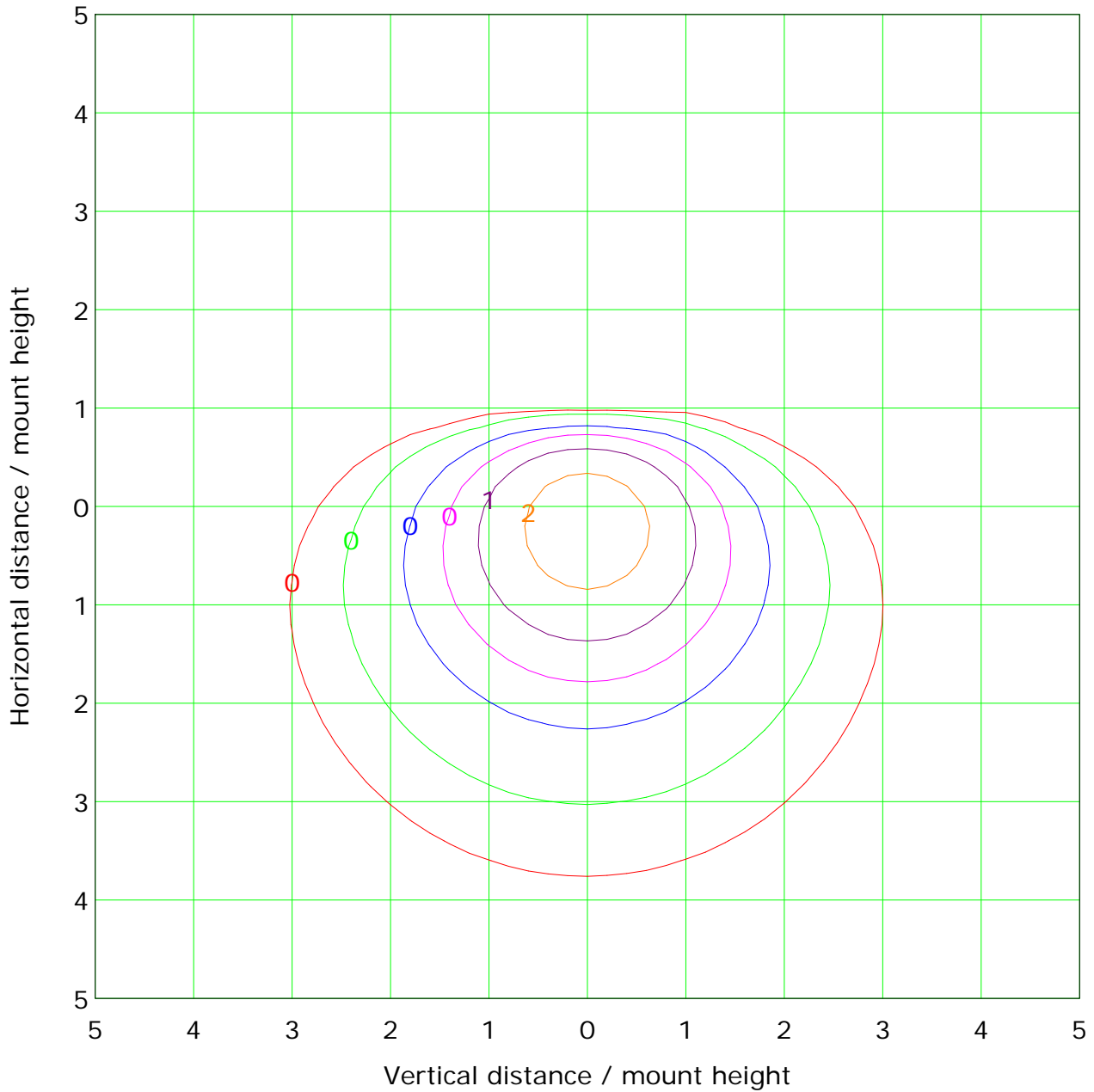
- | | | | |
|-----------|--------|-----------|--------|
| — (10%): | 41 cd | — (16%): | 66 cd |
| — (25%): | 103 cd | — (40%): | 164 cd |
| — (63%): | 258 cd | — (100%): | 410 cd |

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%): 3.6 lx	
— (1%):	0.0 lx	— (2%):	0.1 lx
— (5%):	0.2 lx	— (10%):	0.4 lx
— (20%):	0.7 lx	— (50%):	1.8 lx
— (100%):	3.6 lx		

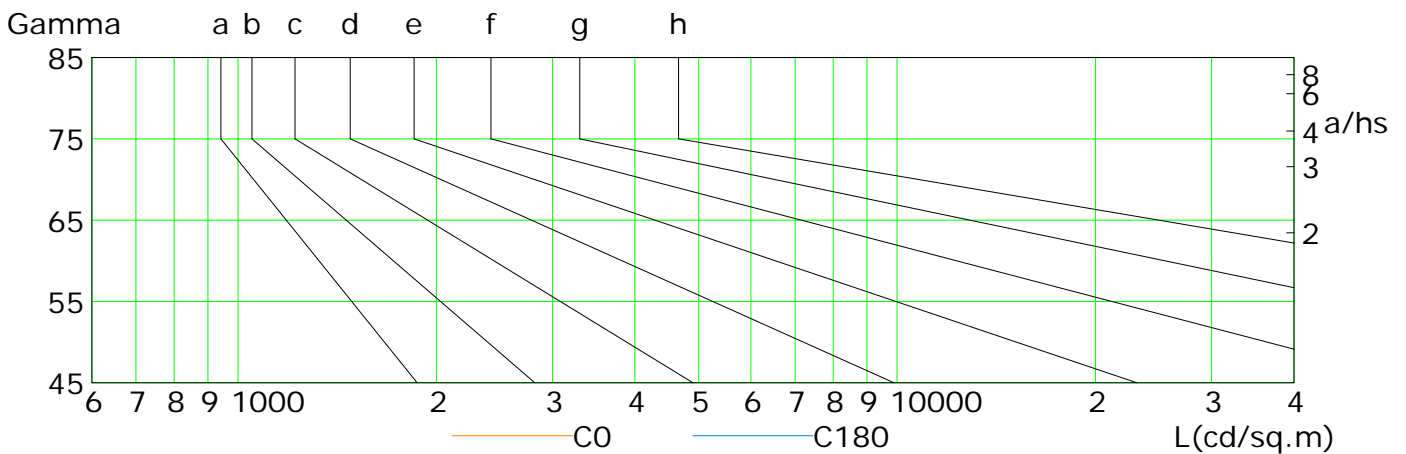
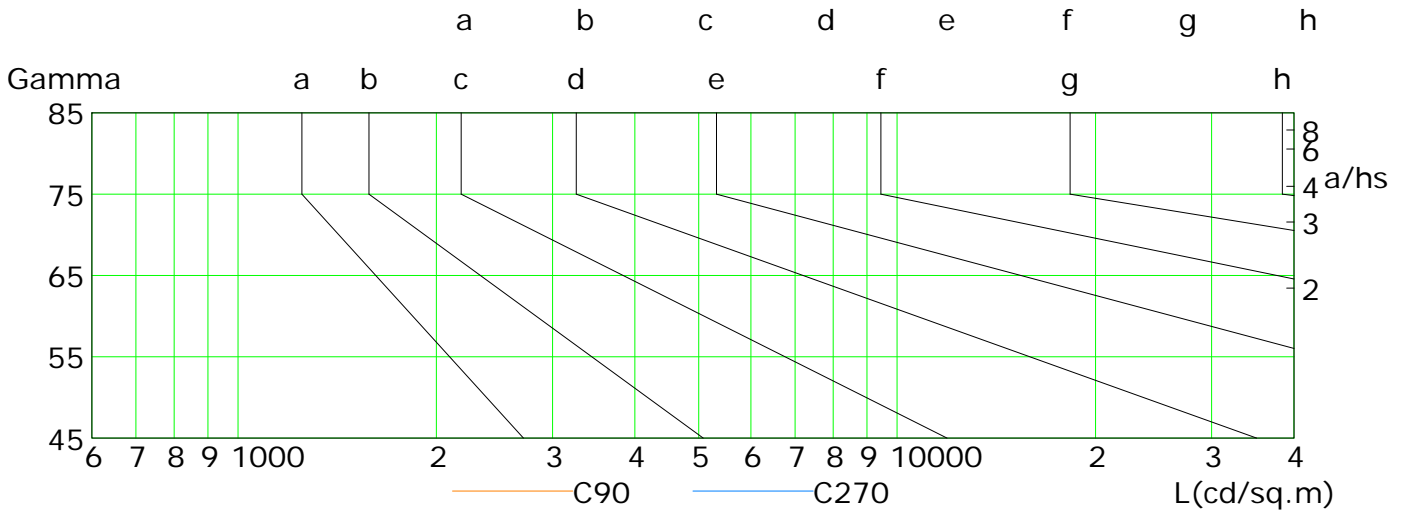
C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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



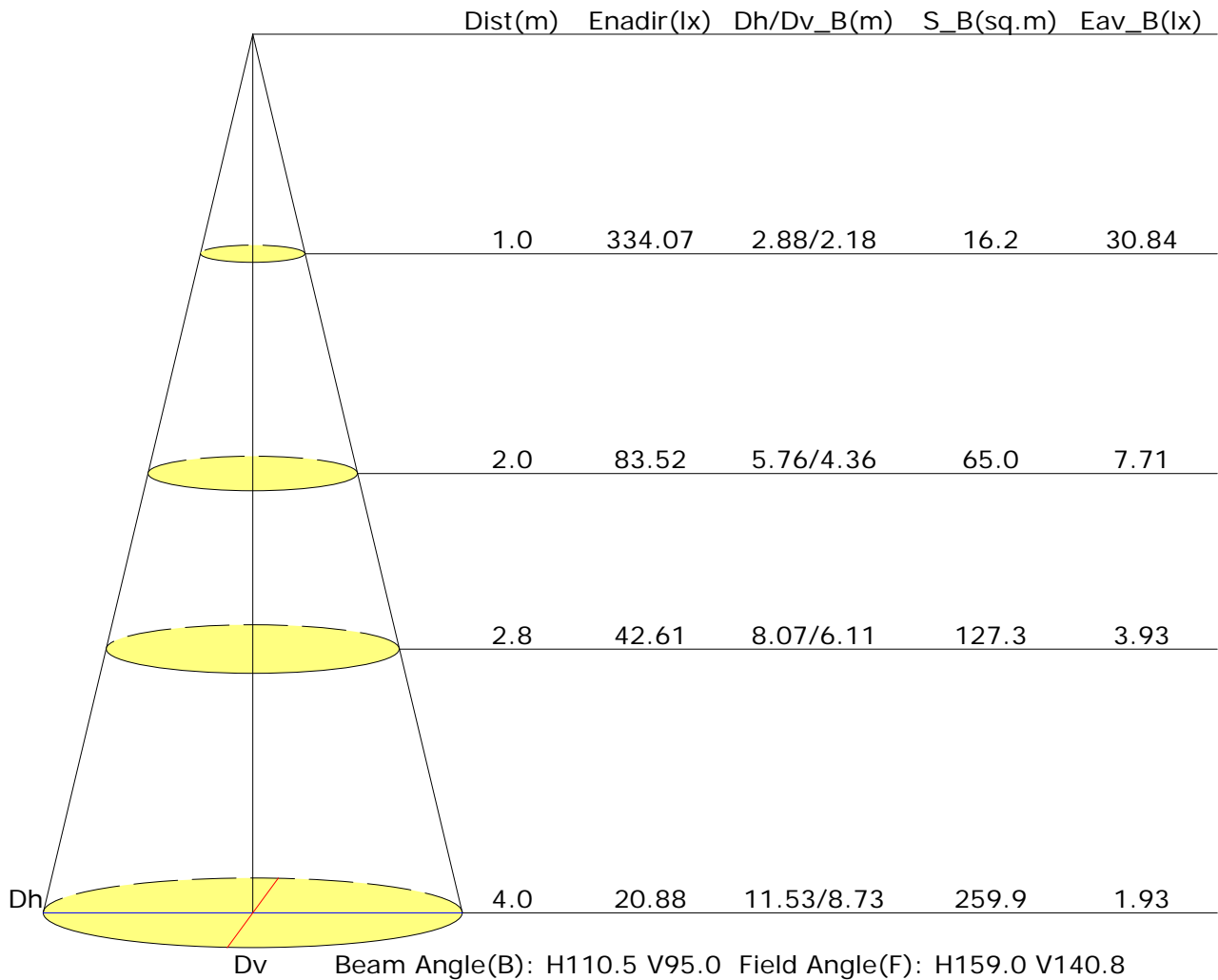
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	220	196	170	143	115	87	58	31	10
C90	385	365	339	309	276	244	211	179	148
C180	215	192	167	140	112	84	57	30	9
C270	4	1	0	0	0	0	0	1	1

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:

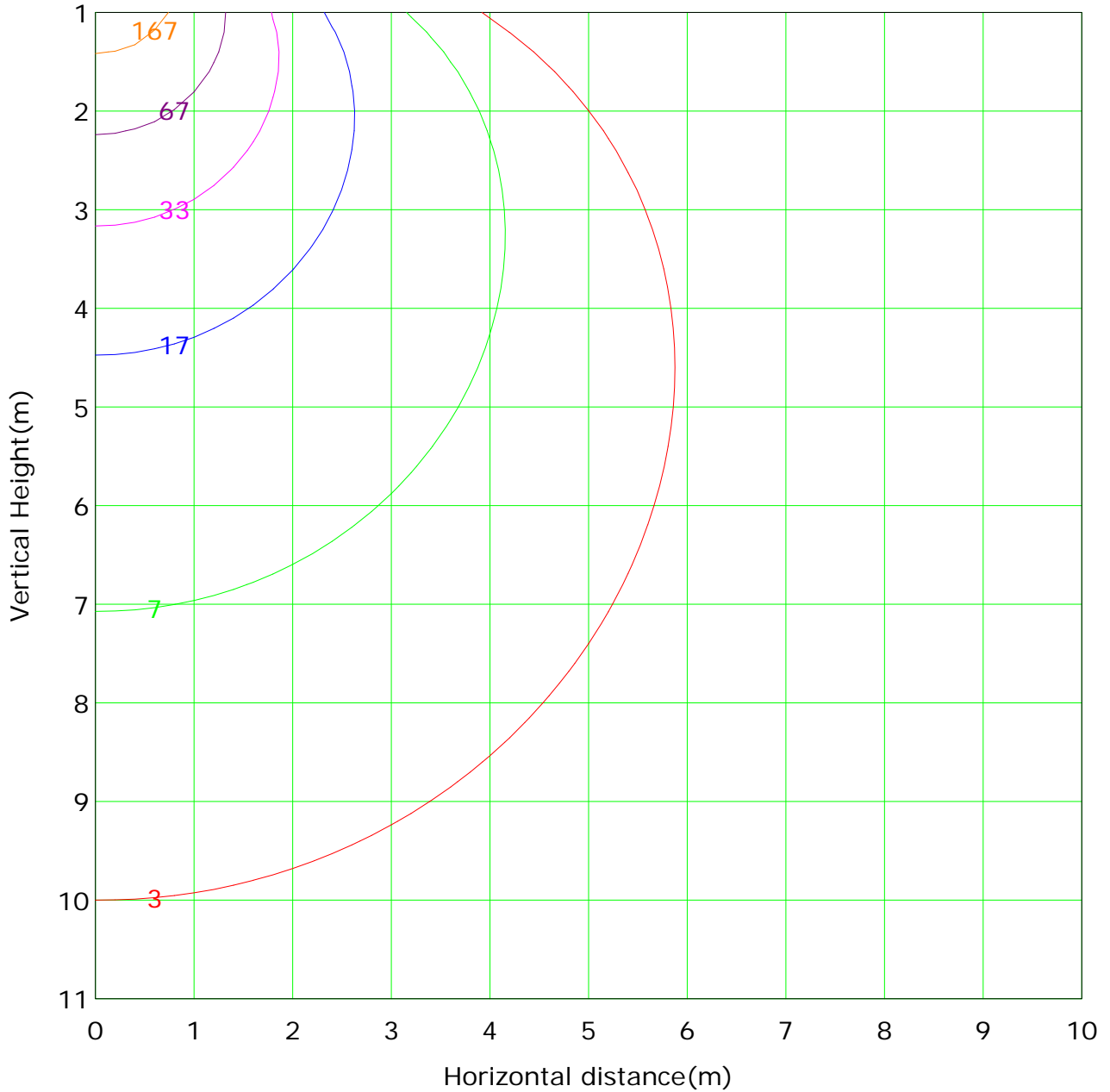


Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 334.1 lx
— (1%): 3.3 lx	— (2%): 6.7 lx	— (10%): 33.4 lx
— (5%): 16.7 lx	— (20%): 66.8 lx	— (50%): 167.0 lx
— (100%): 334.1 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: