



Report No.:

Test Time: 03/10/2024 10:50

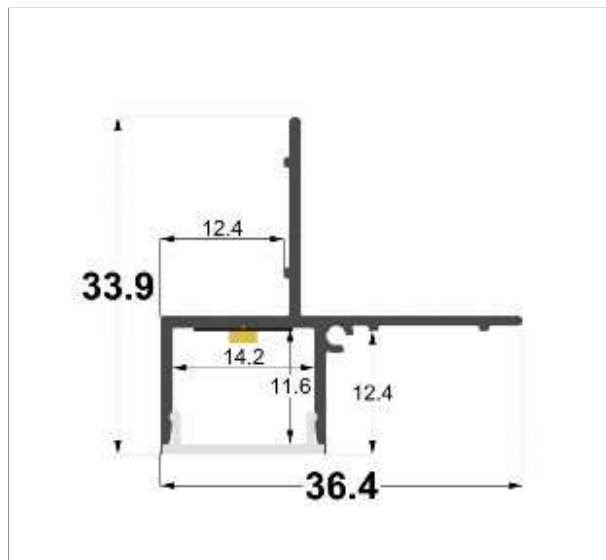
## Luminaire Property

Luminaire Manufacturer: Lighting Line  
 Luminaire Description: LLP-DW14-03+LLD-03-FK  
 Lamp Description: OR40sF521208F2/14.4 1m  
 Number of Lamps: 1  
 Voltage: 24.0 V  
 Power: 13.48 W  
 Lumens per Lamp: 1491  
 Current: 0.562 A  
 Power Factor: 1.000

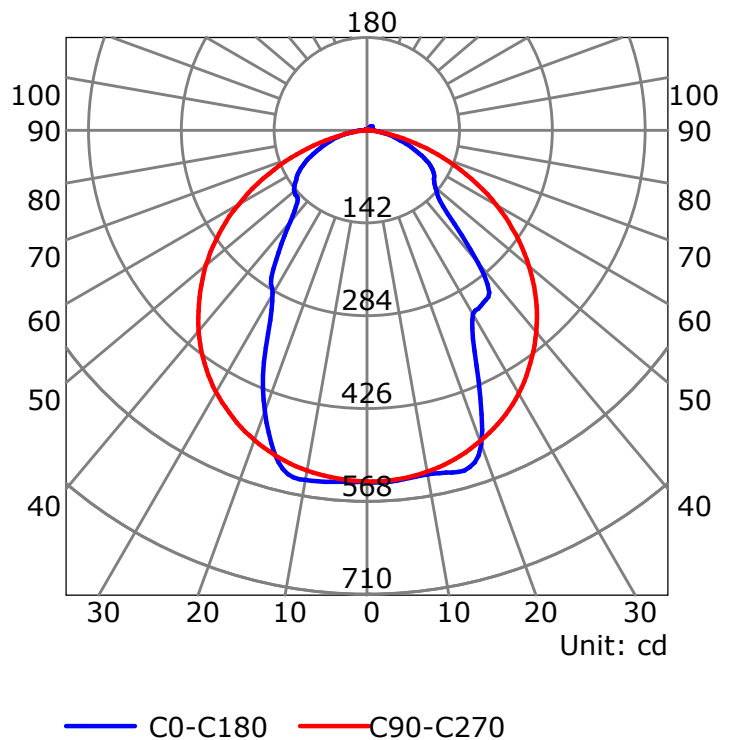
## Photometric Results

CIE Class: Direct  
 Measurement Flux: 1160.9 lm  
 Downward Ratio: 76.68%  
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 147.7, 154.9, 145.5, 145.6  
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 72.3, 111.8, 83.9, 83.4  
 Luminaire Efficacy Rating (LER): 86.17  
 Max. Intensity: 543.97 cd  
 S/MH(C0/C180): 0.96  
 Total Rated Lamp Lumens: 1491.0 lm  
 Efficiency: 77.86%  
 Upward Ratio: 1.18%  
 Central Intensity: 538.36 cd  
 Pos of Max. Intensity: H180 V11  
 S/MH(C90/C270): 1.28

Picture Of Luminaire



Luminous Intensity Distribution Curve

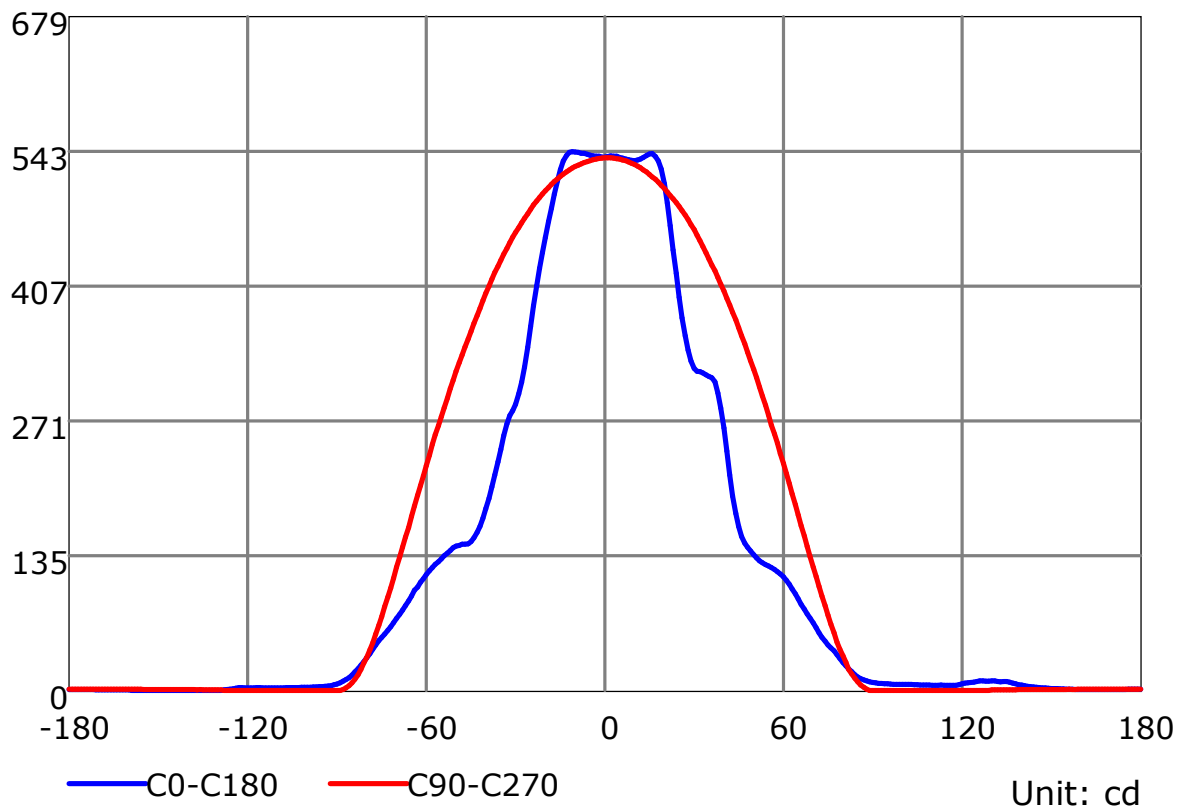
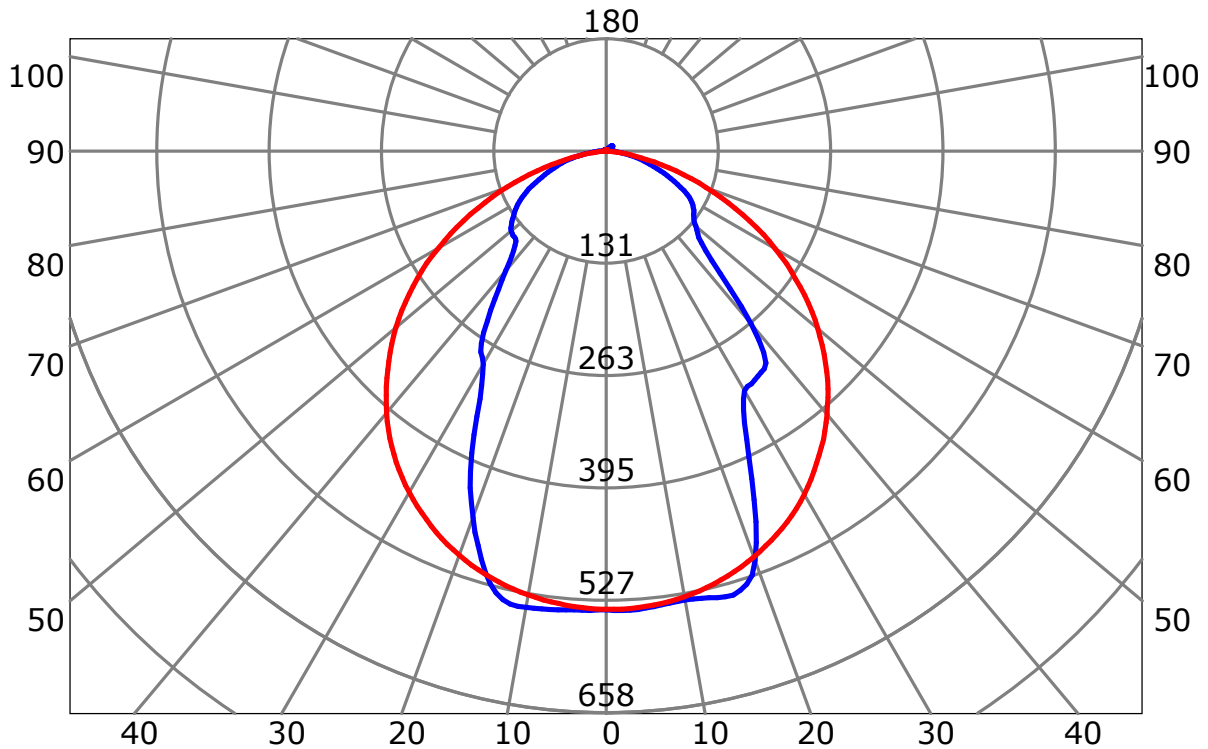


C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

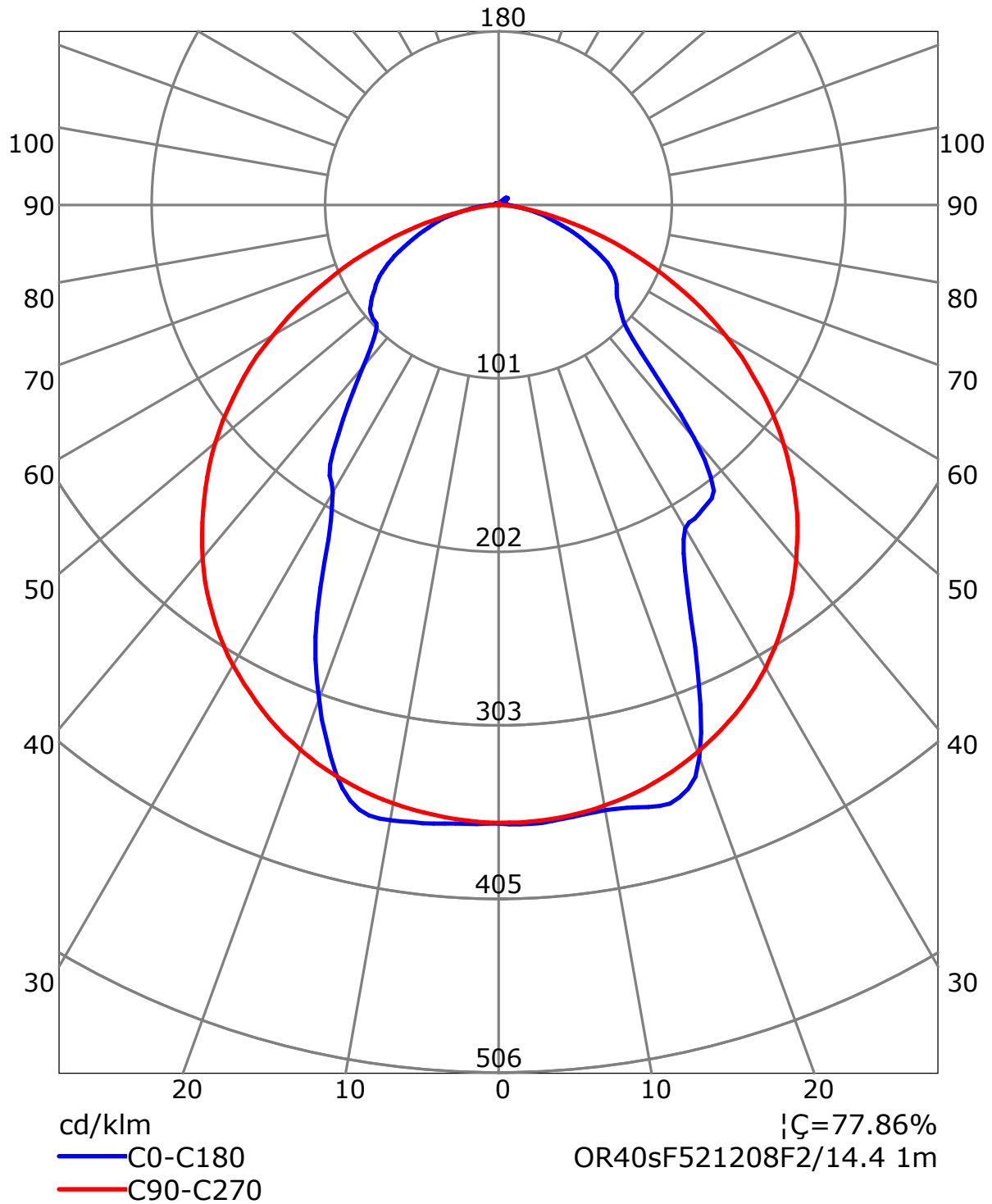
Distance: 7.792 m

Humidity:

Inspector:



## Luminous Intensity Distribution Curve(cd/klm)

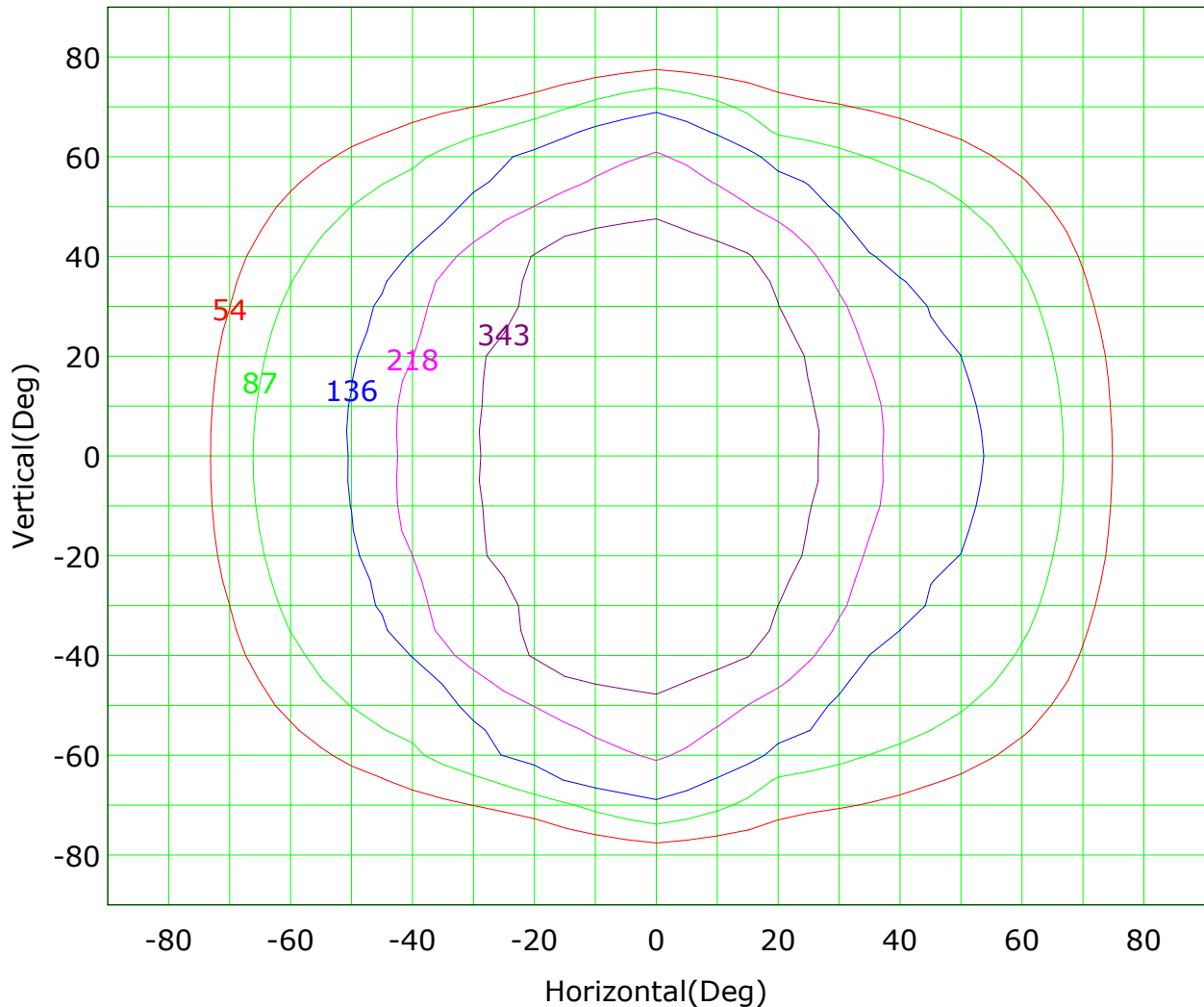


C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 7.792 m  
Humidity:  
Inspector:



## Isocandela (rectangle)



Imax (100%): 544 cd

- |           |        |           |        |
|-----------|--------|-----------|--------|
| — ( 10%): | 54 cd  | — ( 16%): | 87 cd  |
| — ( 25%): | 136 cd | — ( 40%): | 218 cd |
| — ( 63%): | 343 cd | — (100%): | 544 cd |

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

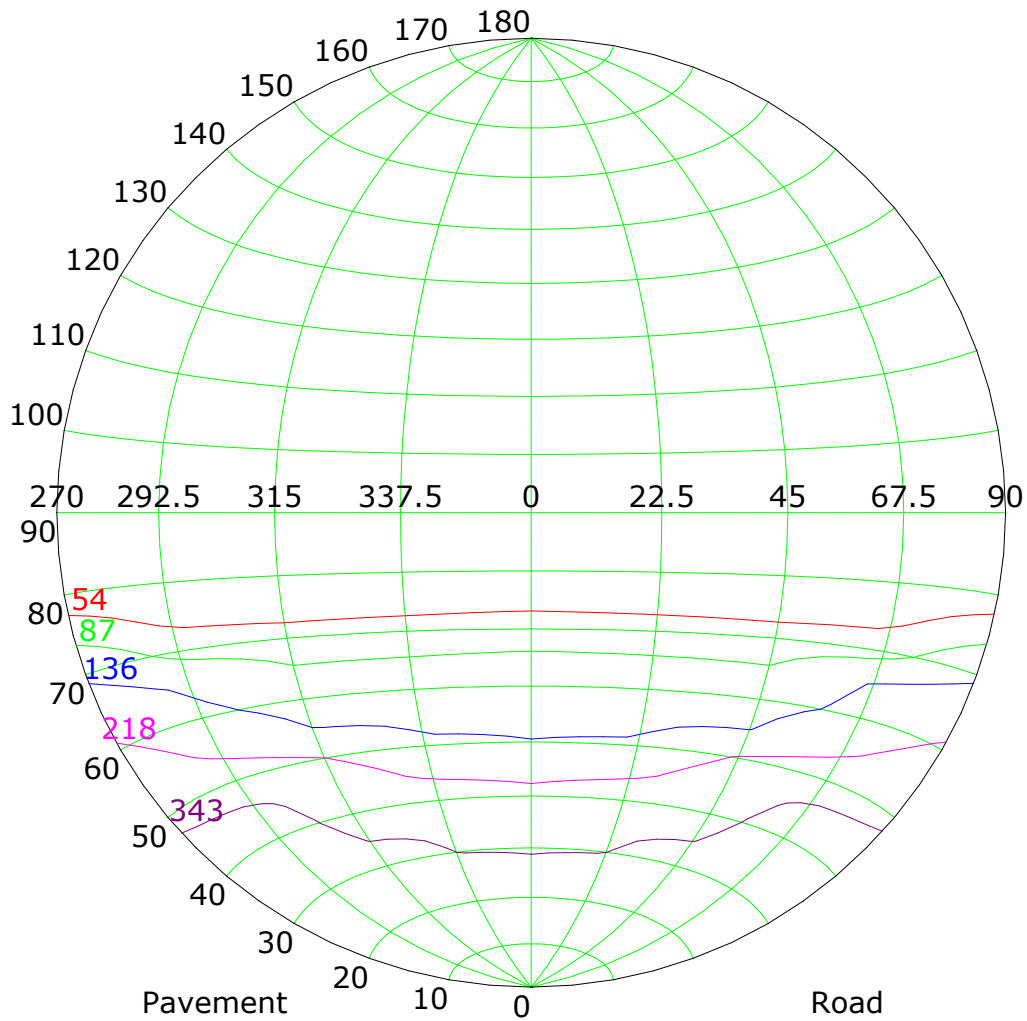
Distance: 7.792 m

Humidity:

Inspector:



## Isocandela (sphere)



Imax (100%): 544 cd

— ( 10%):	54 cd	— ( 16%):	87 cd
— ( 25%):	136 cd	— ( 40%):	218 cd
— ( 63%):	343 cd	— (100%):	544 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

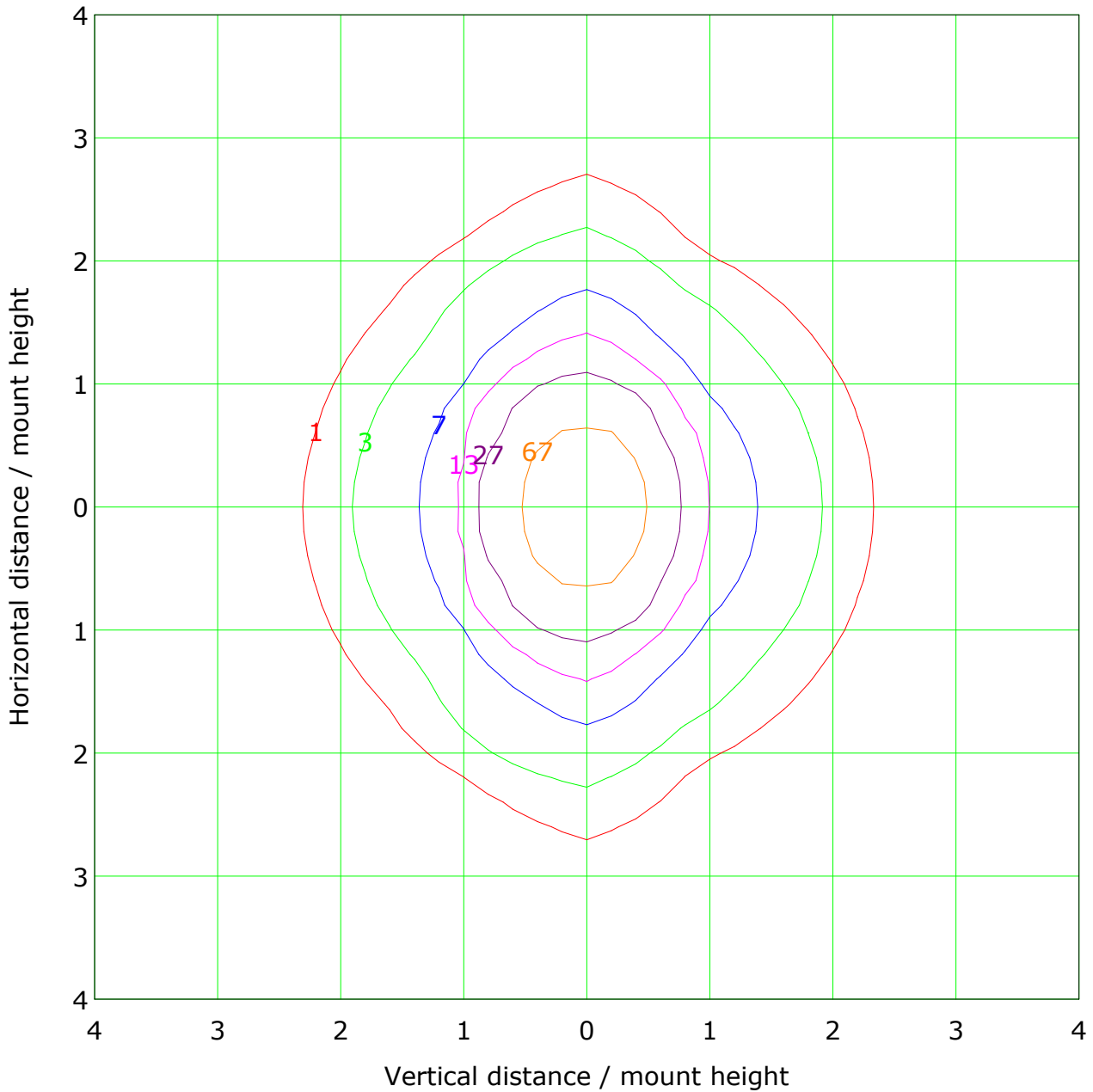
Distance: 7.792 m

Humidity:

Inspector:



## IsoLux Plot



Mounting Height: 2.0m	Max Lux(100%): 134.7 lx
( 1%): 1.3 lx	( 2%): 2.7 lx
( 5%): 6.7 lx	( 10%): 13.5 lx
( 20%): 26.9 lx	( 50%): 67.3 lx
(100%): 134.7 lx	

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 7.792 m

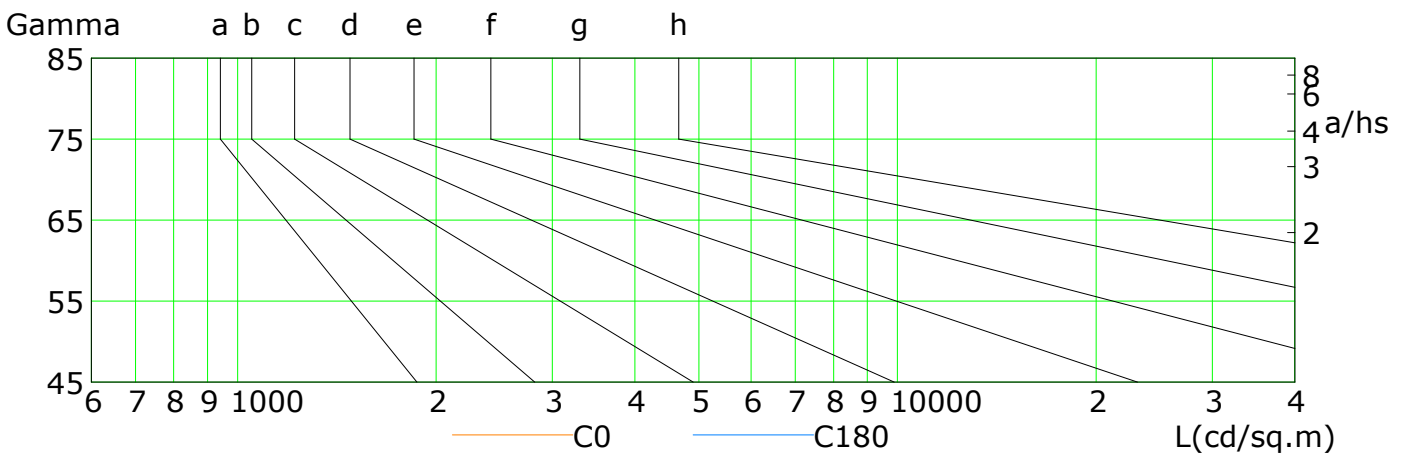
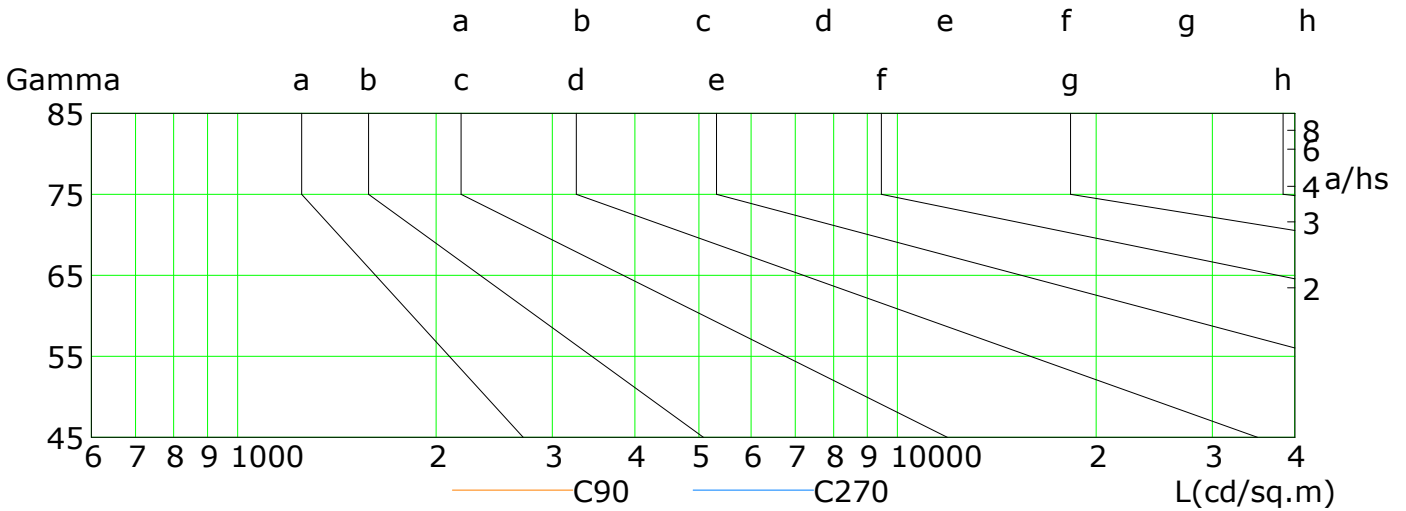
Humidity:

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



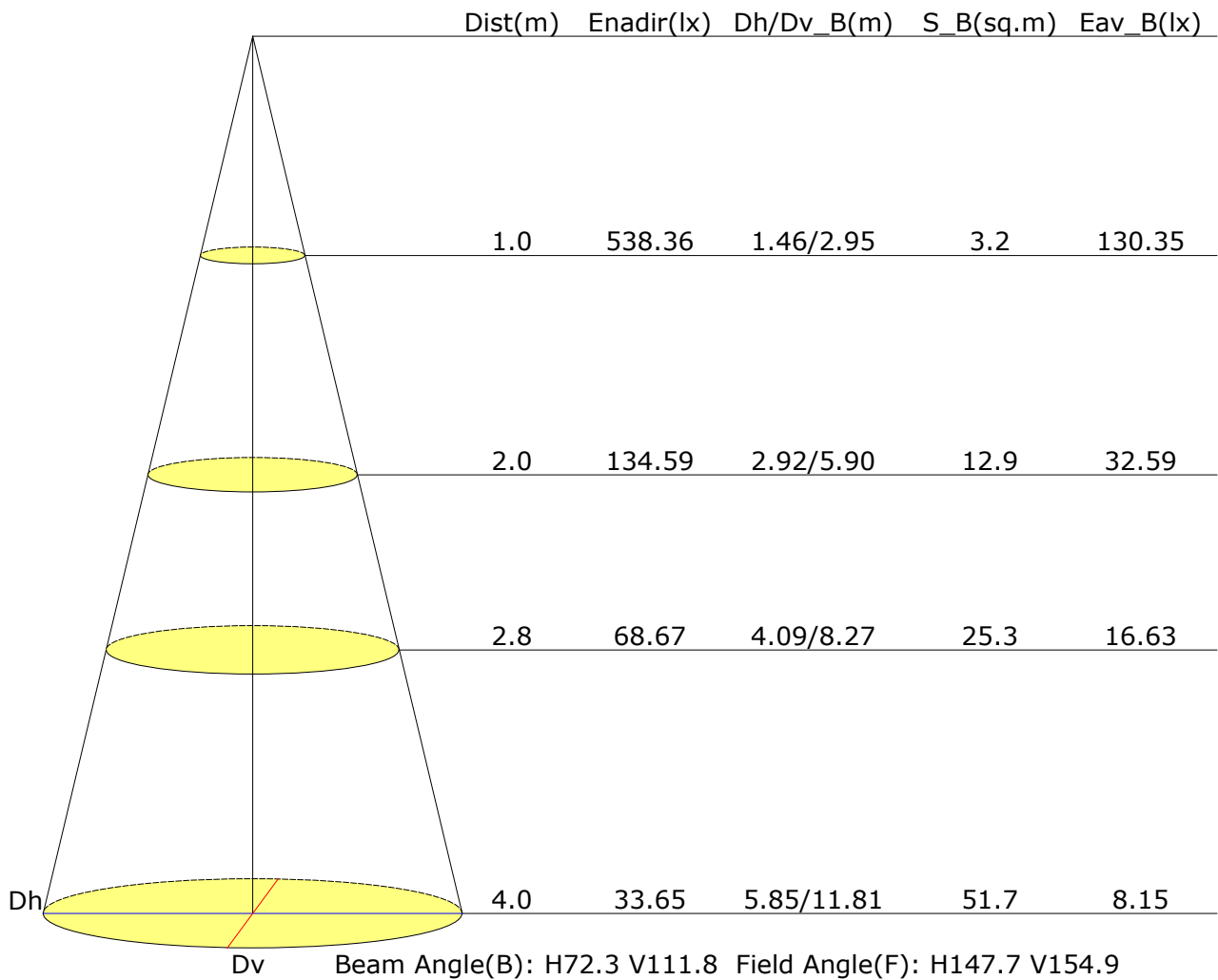
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	165	137	126	115	93	68	46	28	14
C90	366	324	278	229	177	125	76	35	9
C180	150	146	133	117	96	73	54	33	16
C270	363	322	276	227	176	124	75	33	8

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



## Illuminance at a Distance



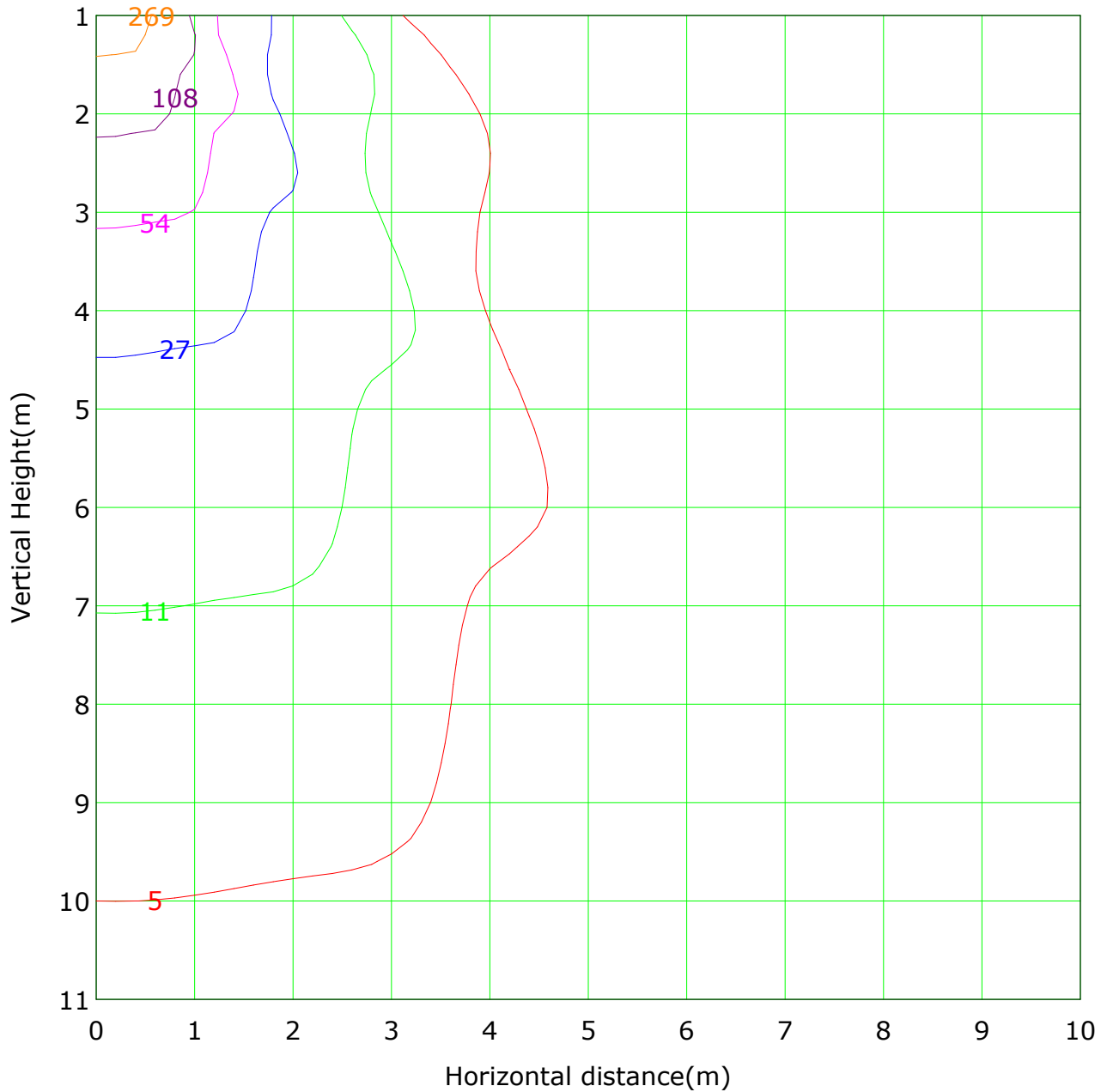
C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:





## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 538.4 lx  
 ( 1%): 5.4 lx                      ( 2%): 10.8 lx  
 ( 5%): 26.9 lx                      ( 10%): 53.8 lx  
 ( 20%): 107.7 lx                    ( 50%): 269.2 lx  
 (100%): 538.4 lx

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



Report No.:

Test Time: 02/10/2024 16:22

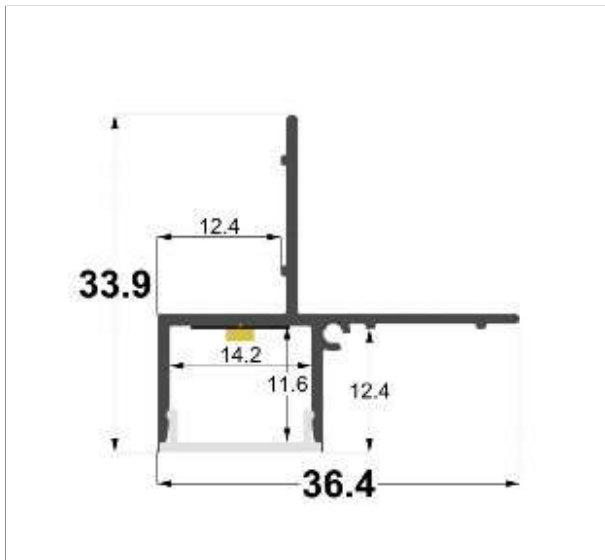
## Luminaire Property

Luminaire Manufacturer: Lighting Line  
 Luminaire Description: LLP-DW14-03+LLD-03-FH  
 Lamp Description: OR40sF521208F2/14.4 1m  
 Number of Lamps: 1  
 Voltage: 24.0 V  
 Power: 13.49 W  
 Lumens per Lamp: 1491  
 Current: 0.562 A  
 Power Factor: 1.000

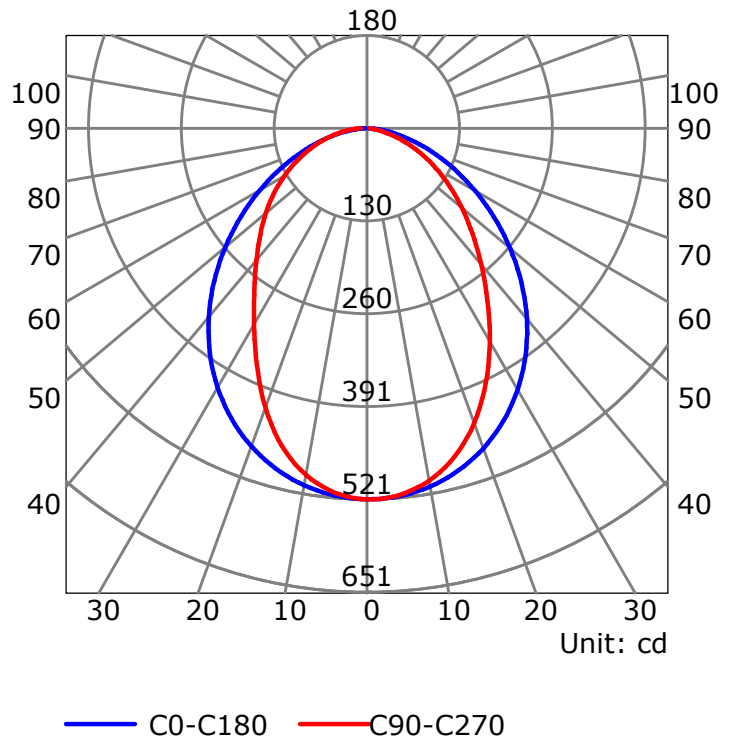
## Photometric Results

CIE Class: Direct  
 Measurement Flux: 1116.6 lm  
 Downward Ratio: 74.89%  
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.1, 148.7, 150.8, 151.0  
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.2, 76.0, 84.4, 84.7  
 Luminaire Efficacy Rating (LER): 82.82  
 Max. Intensity: 521.54 cd  
 S/MH(C0/C180): 1.21  
 Total Rated Lamp Lumens: 1491.0 lm  
 Efficiency: 74.89%  
 Upward Ratio: 0.00%  
 Central Intensity: 521.15 cd  
 Pos of Max. Intensity: H22.5 V0  
 S/MH(C90/C270): 1.00

Picture Of Luminaire



Luminous Intensity Distribution Curve

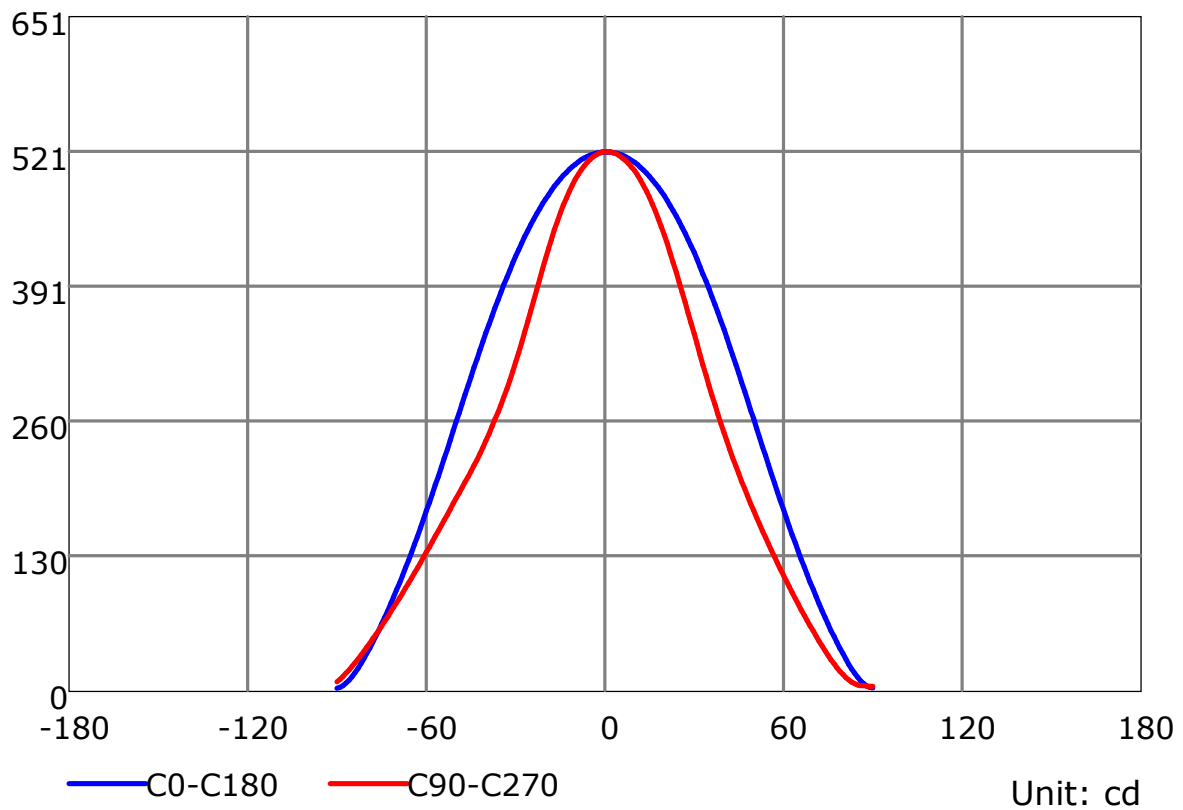
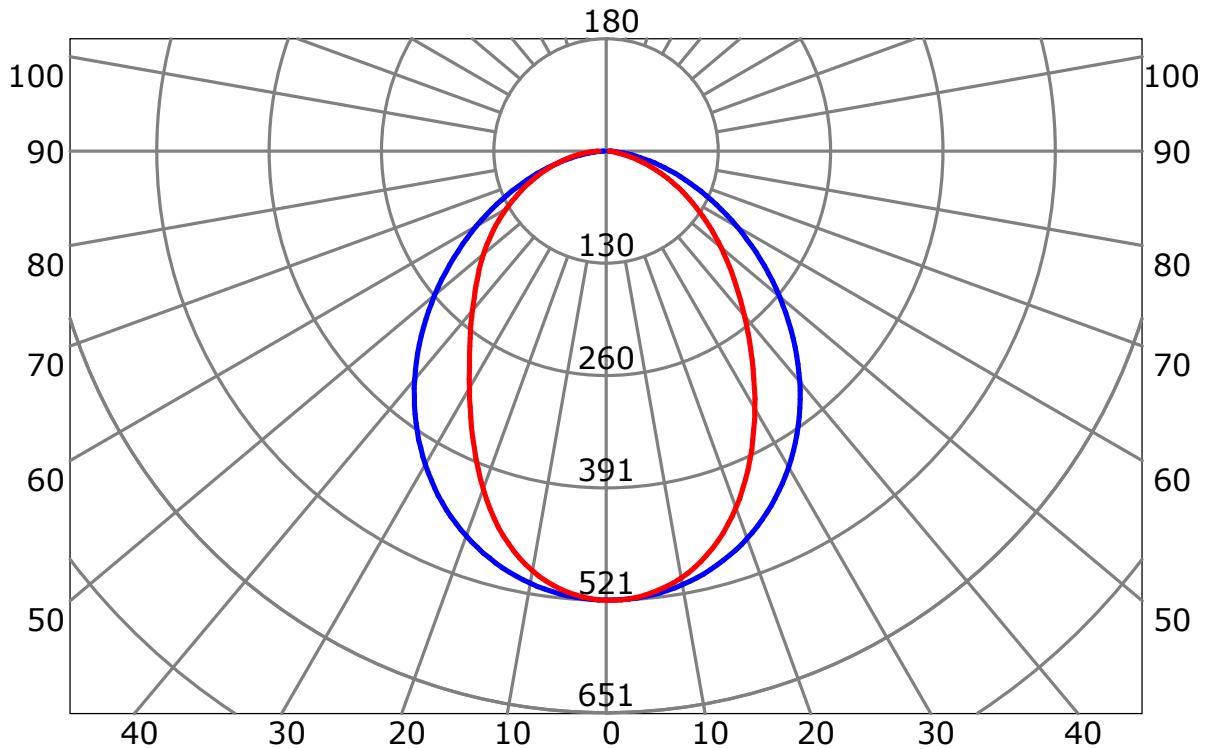


C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



## Luminous Intensity Distribution Curve

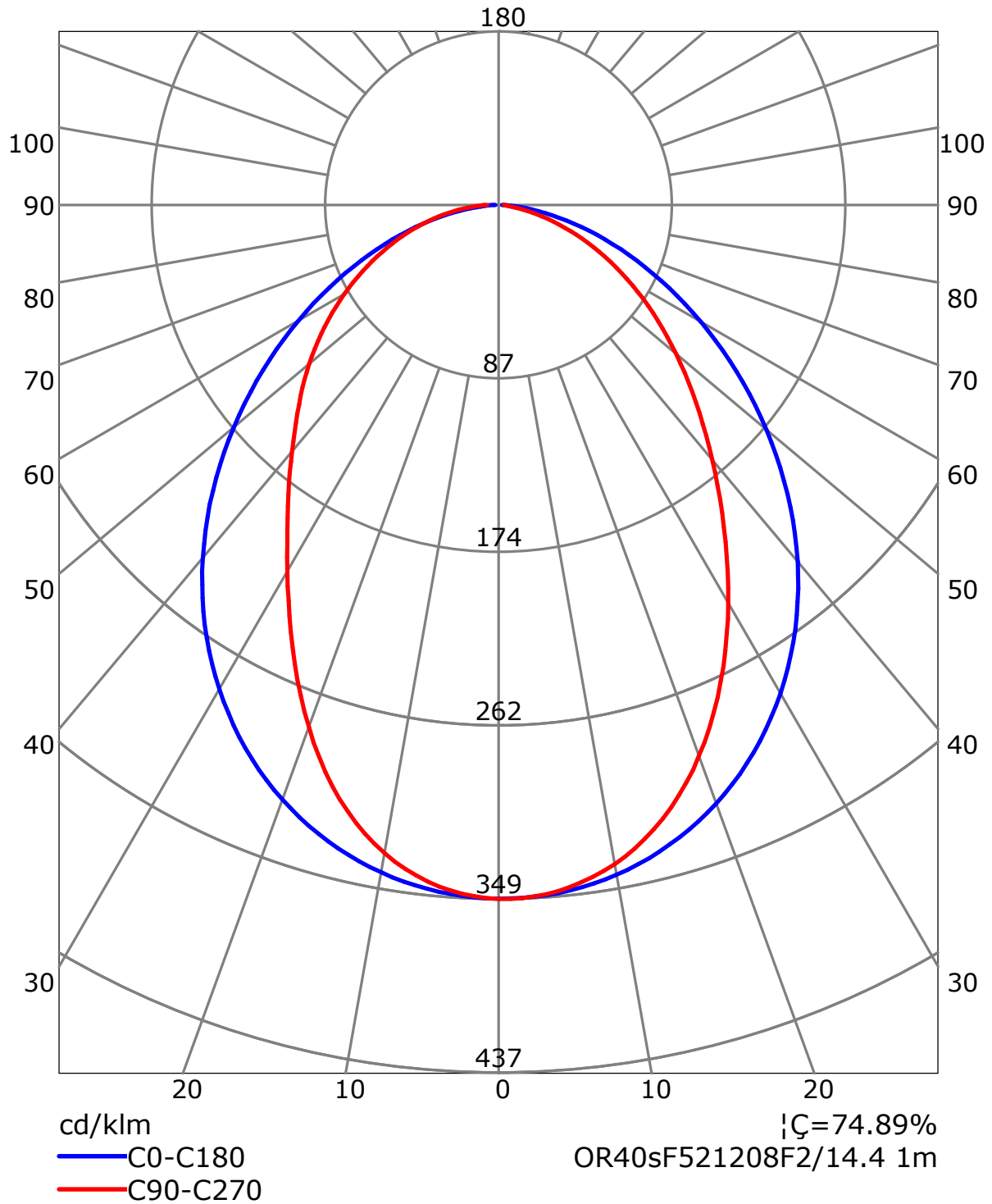


C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1800B  
Distance: 7.792 m  
Humidity:  
Inspector:



## Luminous Intensity Distribution Curve(cd/klm)

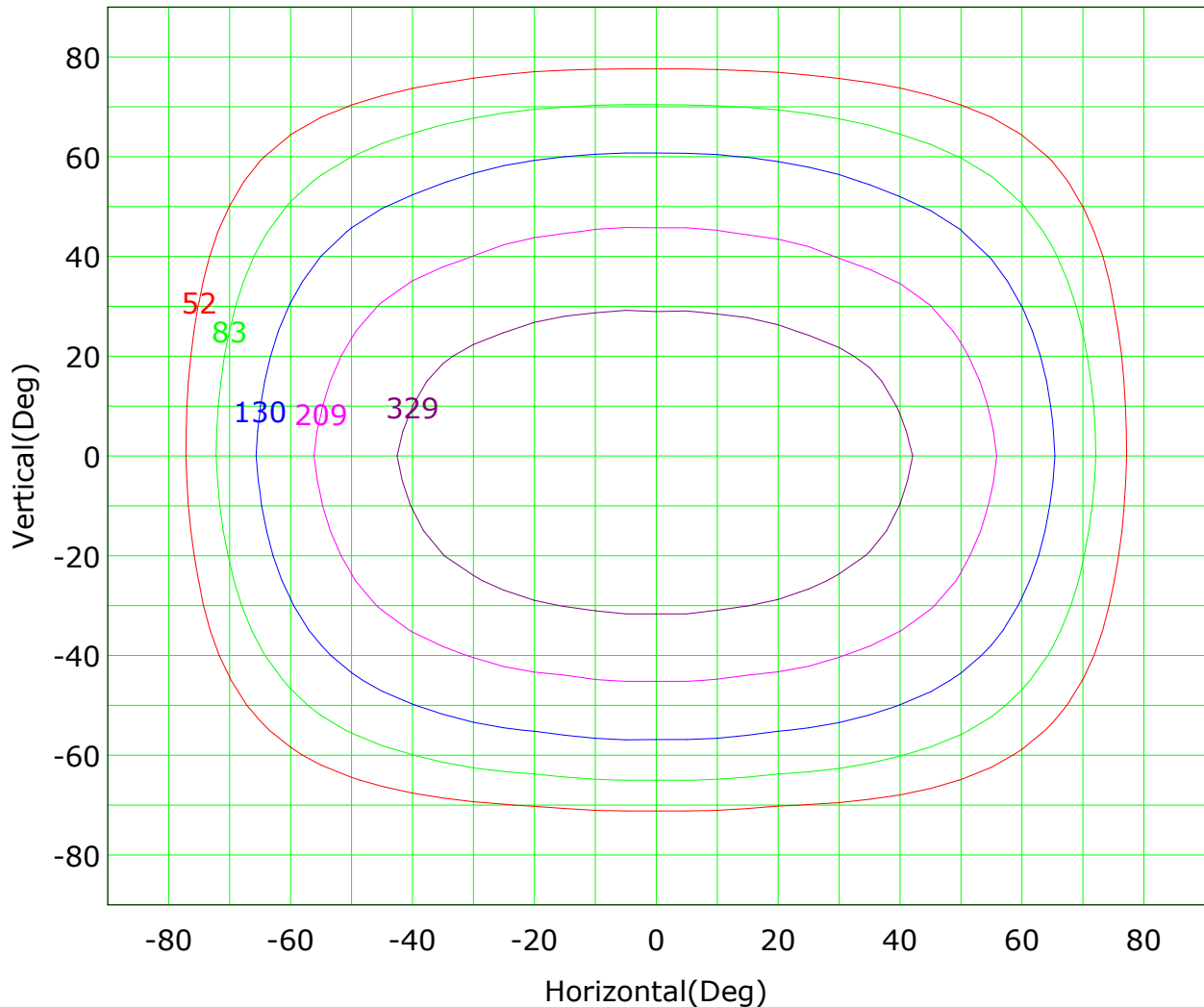


C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1800B  
Distance: 7.792 m  
Humidity:  
Inspector:



## Isocandela (rectangle)



Imax (100%): 522 cd

— ( 10%):	52 cd	— ( 16%):	83 cd
— ( 25%):	130 cd	— ( 40%):	209 cd
— ( 63%):	329 cd	— (100%):	522 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1800B

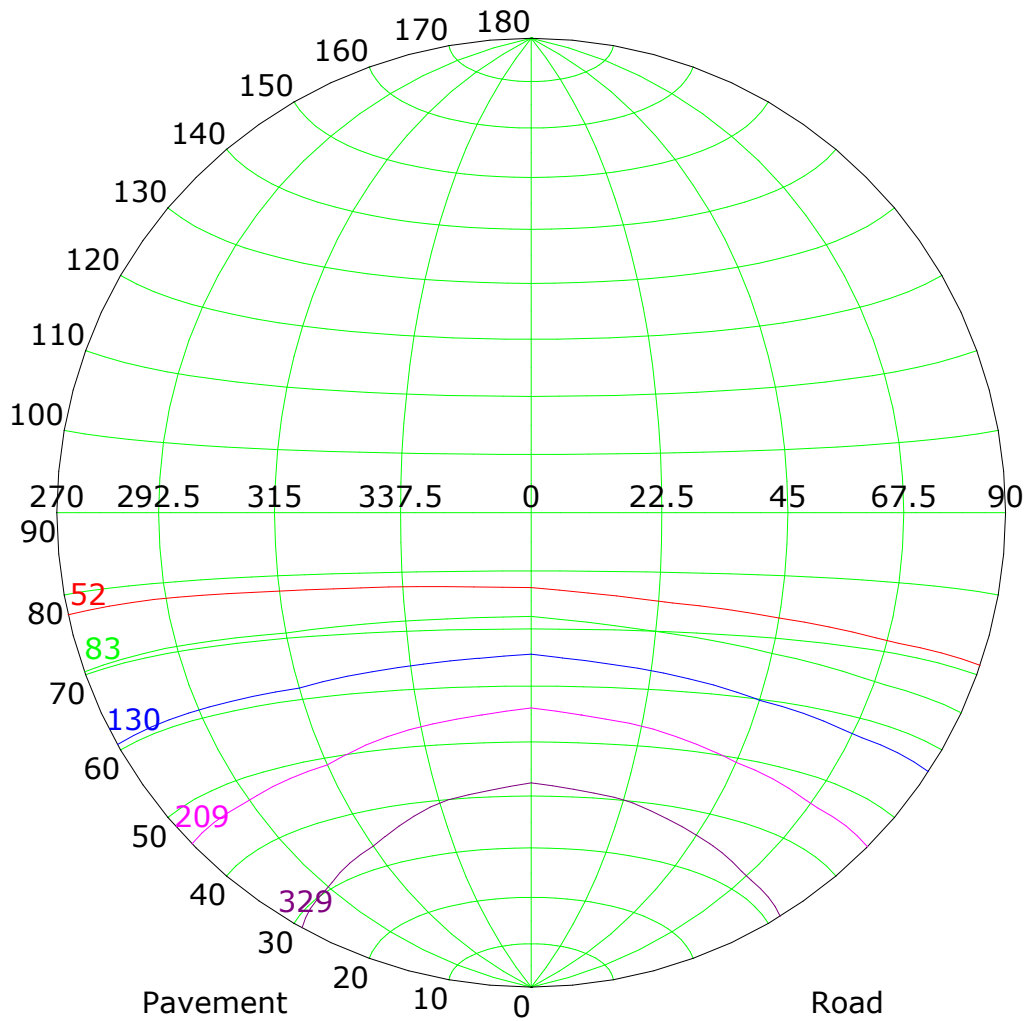
Distance: 7.792 m

Humidity:

Inspector:



## Isocandela (sphere)



Imax (100%): 522 cd

- |                  |                  |
|------------------|------------------|
| — ( 10%): 52 cd  | — ( 16%): 83 cd  |
| — ( 25%): 130 cd | — ( 40%): 209 cd |
| — ( 63%): 329 cd | — (100%): 522 cd |

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1800B

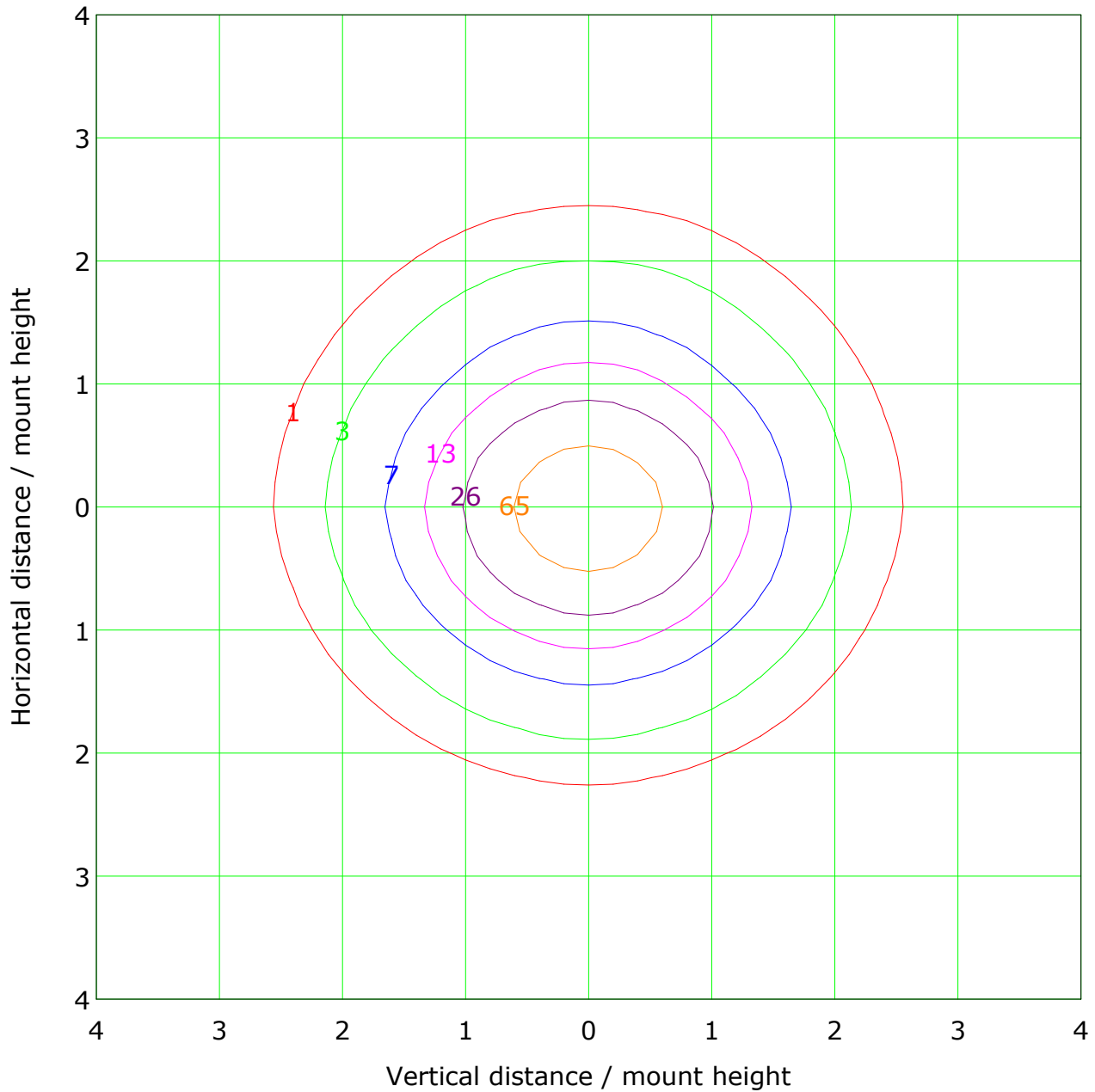
Distance: 7.792 m

Humidity:

Inspector:



## IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 130.4 lx	
— ( 1%):	1.3 lx	— ( 2%):	2.6 lx
— ( 5%):	6.5 lx	— ( 10%):	13.0 lx
— ( 20%):	26.1 lx	— ( 50%):	65.2 lx
— (100%):	130.4 lx		

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1800B

Distance: 7.792 m

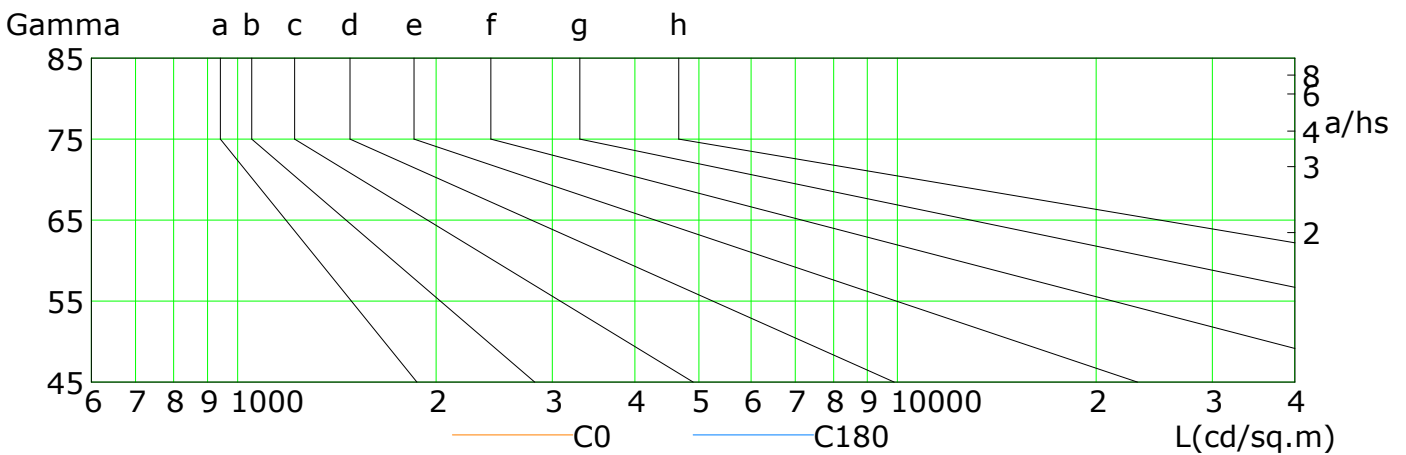
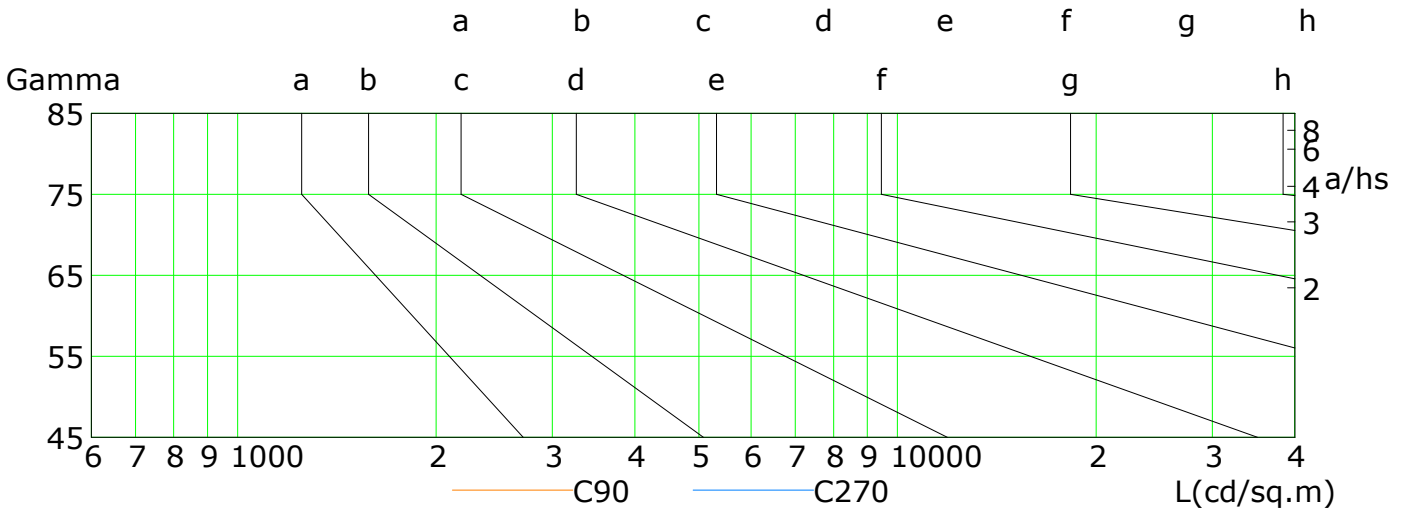
Humidity:

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	307	263	218	176	135	98	65	36	13
C90	210	174	142	112	84	58	34	16	5
C180	304	260	216	174	134	98	65	36	14
C270	212	186	160	134	109	85	63	42	23

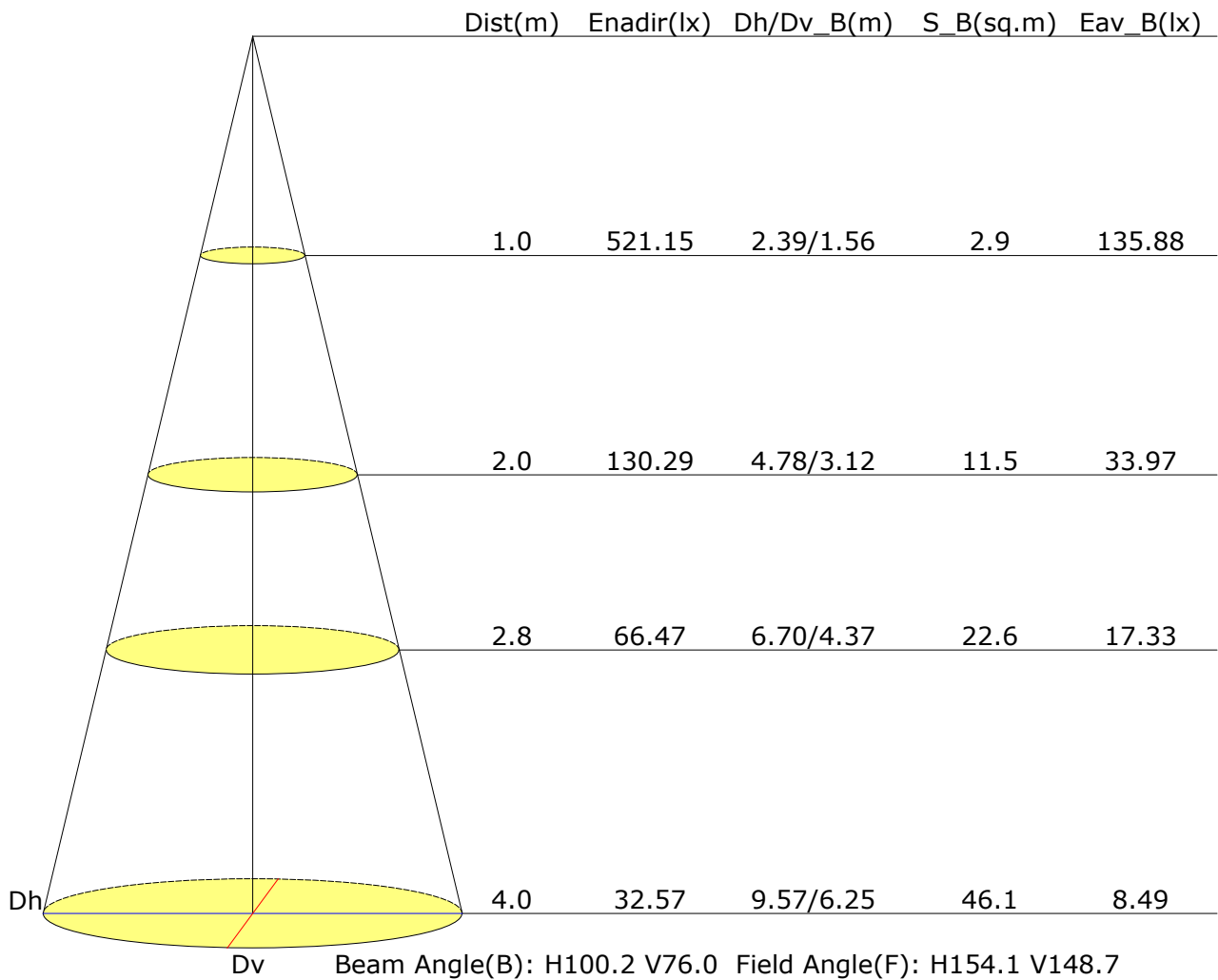
C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:





## Illuminance at a Distance

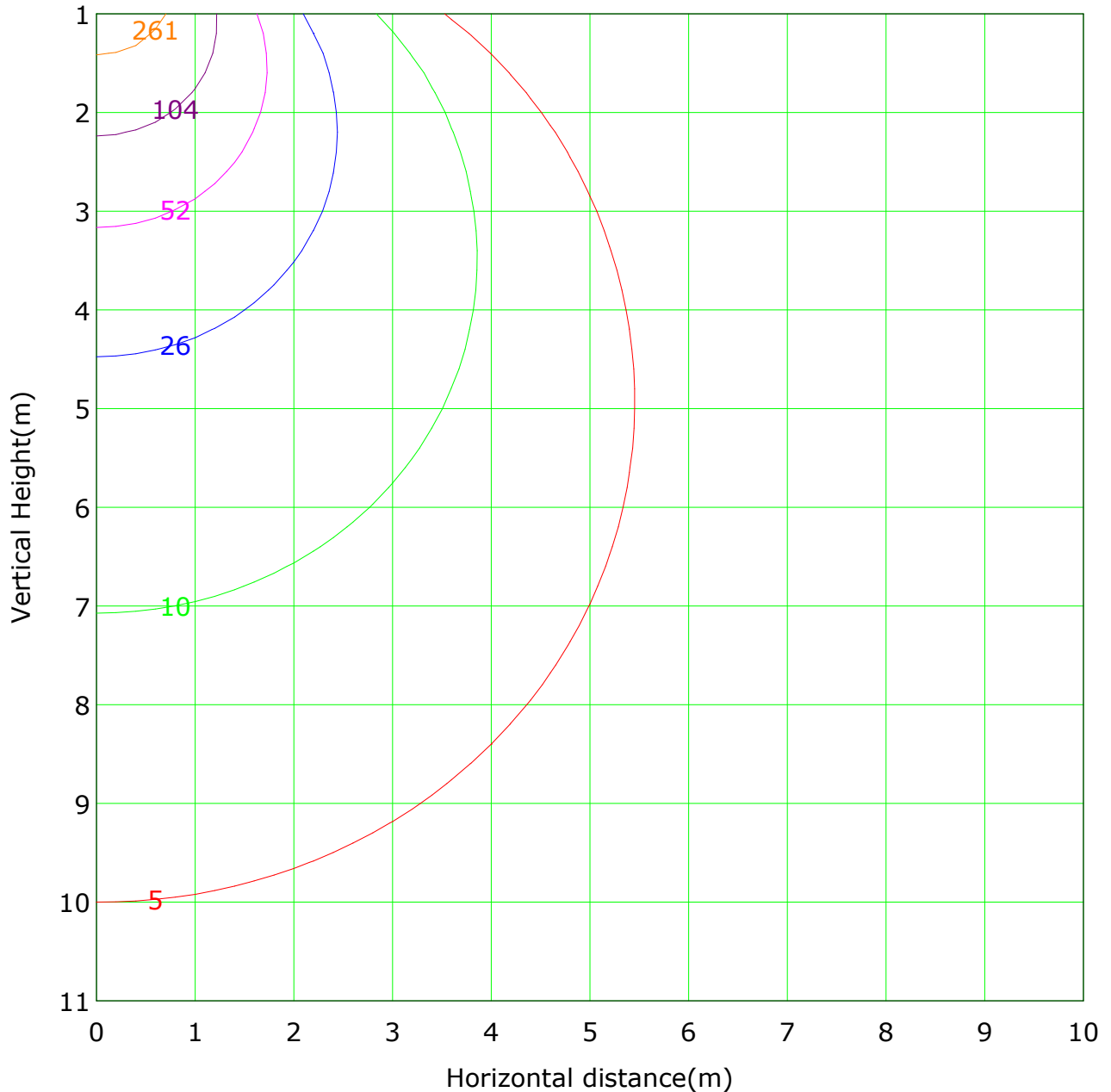


C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 521.2 lx  
— ( 1%): 5.2 lx                      — ( 2%): 10.4 lx  
— ( 5%): 26.1 lx                     — ( 10%): 52.1 lx  
— ( 20%): 104.2 lx                  — ( 50%): 260.6 lx  
— (100%): 521.2 lx

C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1800B  
Distance: 7.792 m  
Humidity:  
Inspector:



Report No.:

Test Time: 03/10/2024 11:47

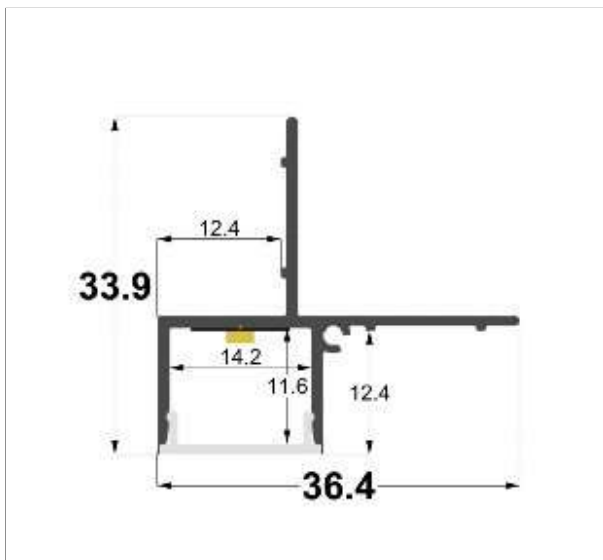
## Luminaire Property

Luminaire Manufacturer: Lighting Line  
 Luminaire Description: LLP-DW14-03+LLD-03-FM  
 Lamp Description: OR40sF521208F2/14.4 1m  
 Number of Lamps: 1  
 Voltage: 24.0 V  
 Power: 13.52 W  
 Lumens per Lamp: 1491  
 Current: 0.563 A  
 Power Factor: 1.000

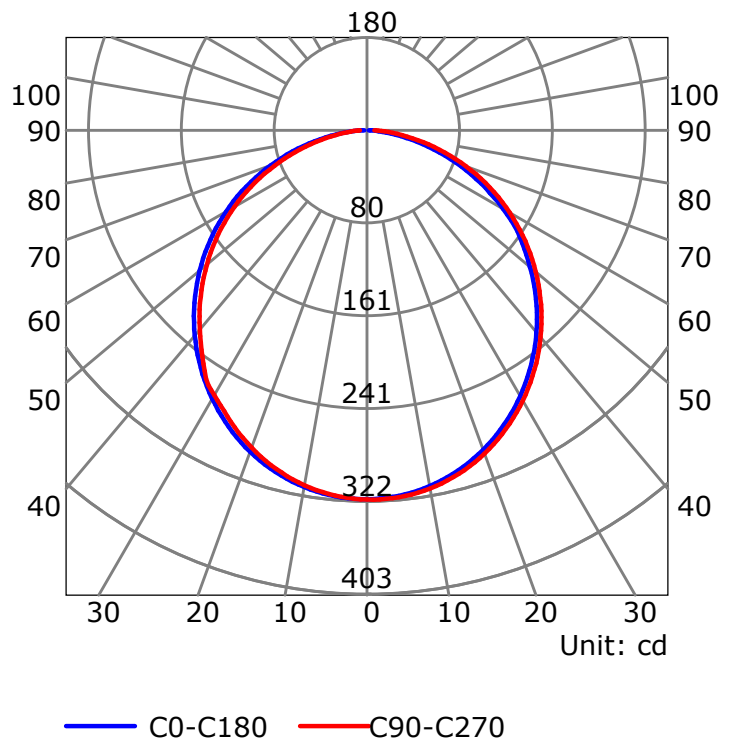
## Photometric Results

CIE Class: Direct  
 Measurement Flux: 904.4 lm  
 Downward Ratio: 60.66%  
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.6, 161.7, 160.4, 161.9  
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.7, 111.0, 111.7, 111.1  
 Luminaire Efficacy Rating (LER): 66.94  
 Max. Intensity: 321.31 cd  
 S/MH(C0/C180): 1.24  
 Total Rated Lamp Lumens: 1491.0 lm  
 Efficiency: 60.66%  
 Upward Ratio: 0.00%  
 Central Intensity: 320.6 cd  
 Pos of Max. Intensity: H135 V1  
 S/MH(C90/C270): 1.25

Picture Of Luminaire



Luminous Intensity Distribution Curve

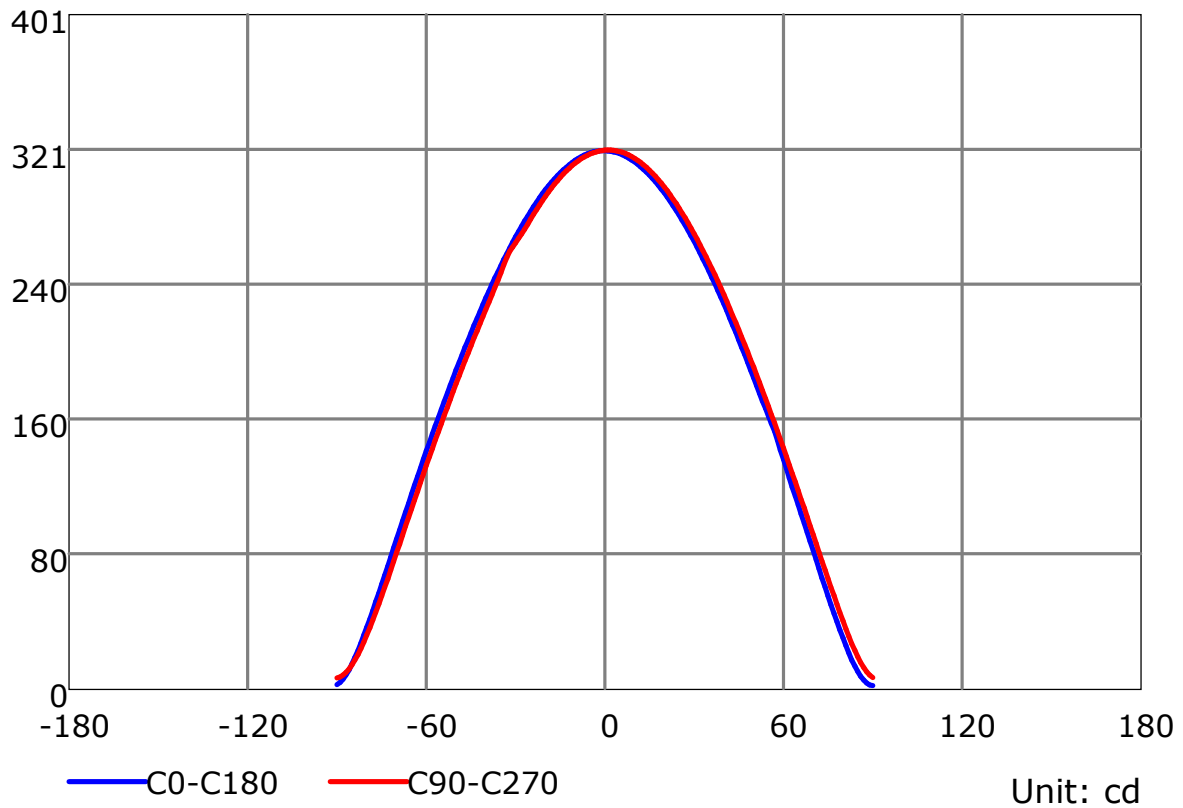
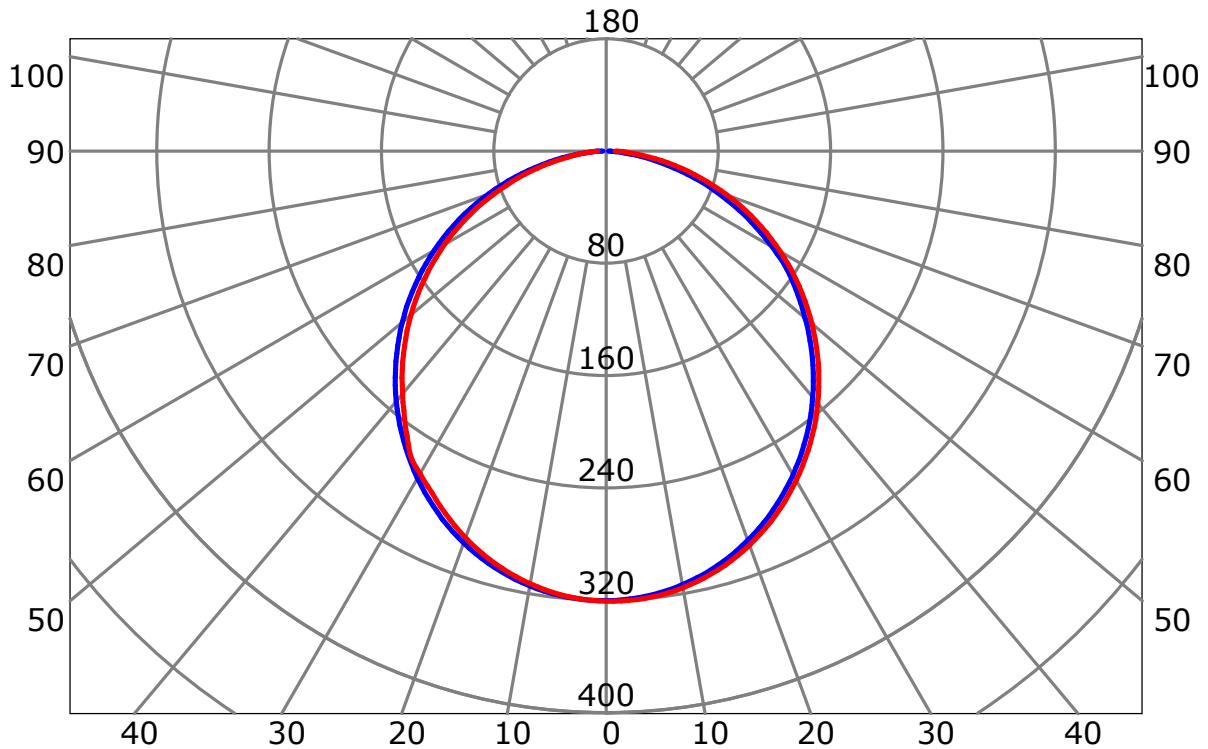


C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



## Luminous Intensity Distribution Curve

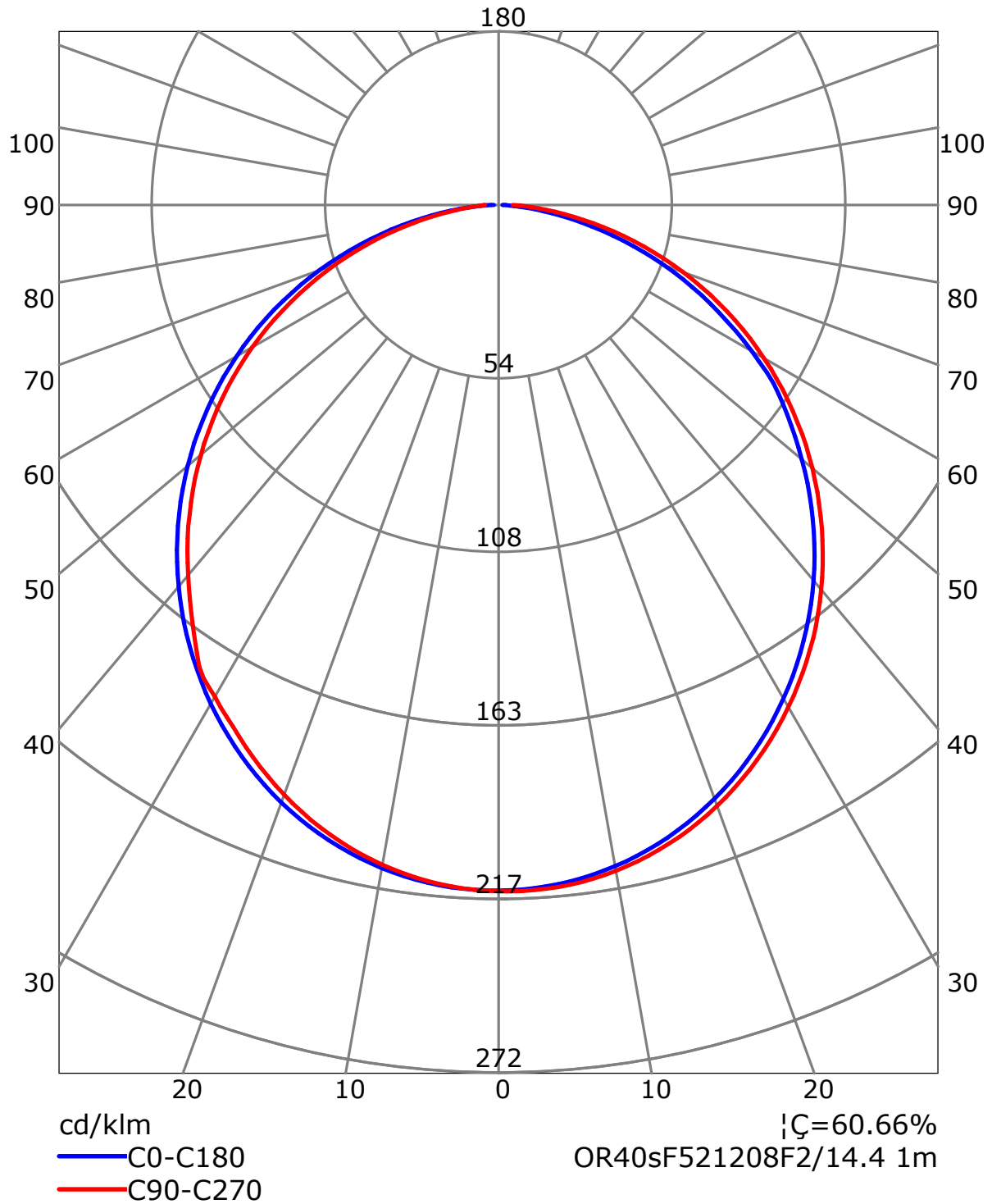


C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1800B  
Distance: 7.792 m  
Humidity:  
Inspector:



## Luminous Intensity Distribution Curve(cd/klm)

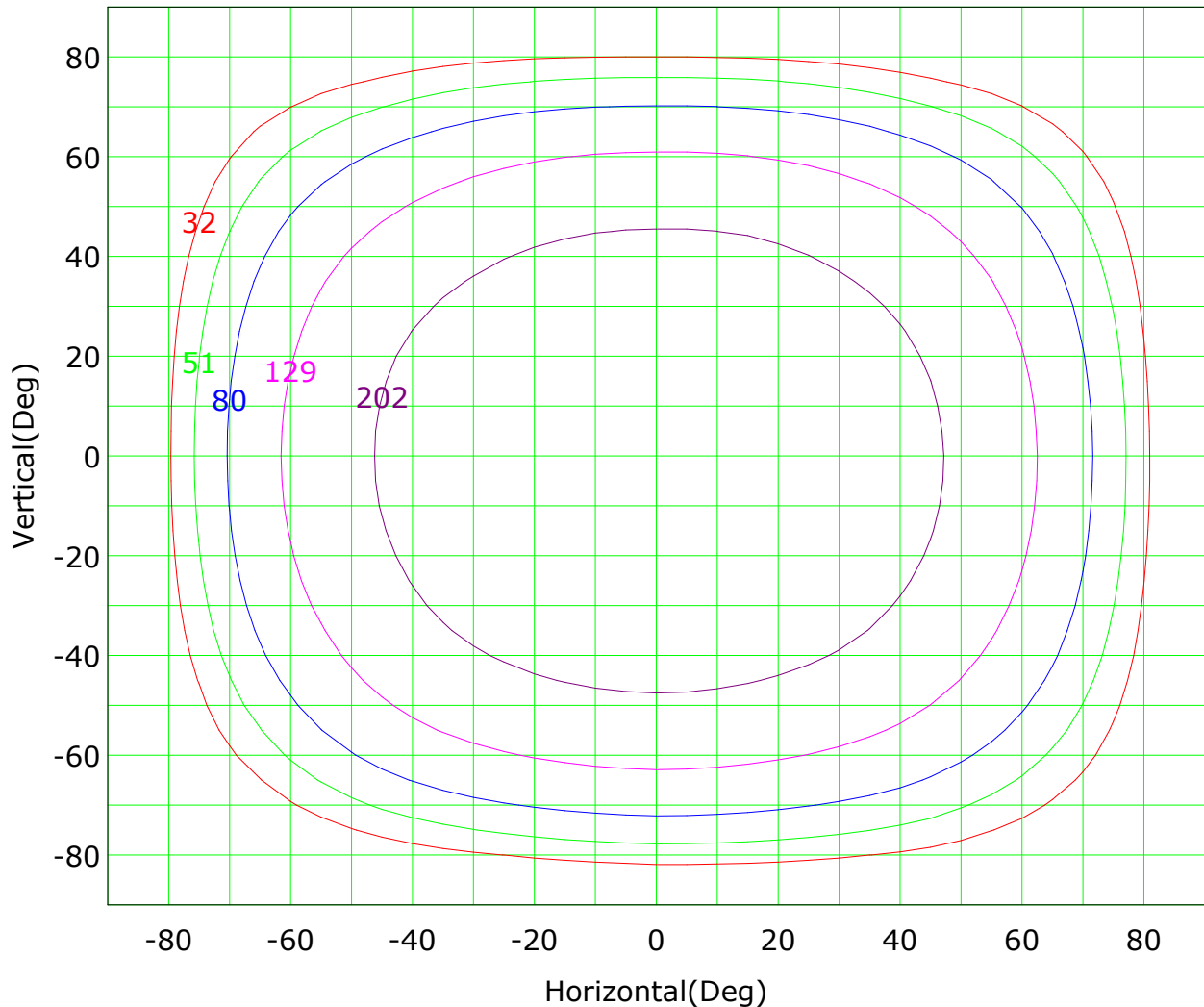


C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1800B  
Distance: 7.792 m  
Humidity:  
Inspector:



## Isocandela (rectangle)



Imax (100%): 321 cd

— ( 10%):	32 cd	— ( 16%):	51 cd
— ( 25%):	80 cd	— ( 40%):	129 cd
— ( 63%):	202 cd	— (100%):	321 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1800B

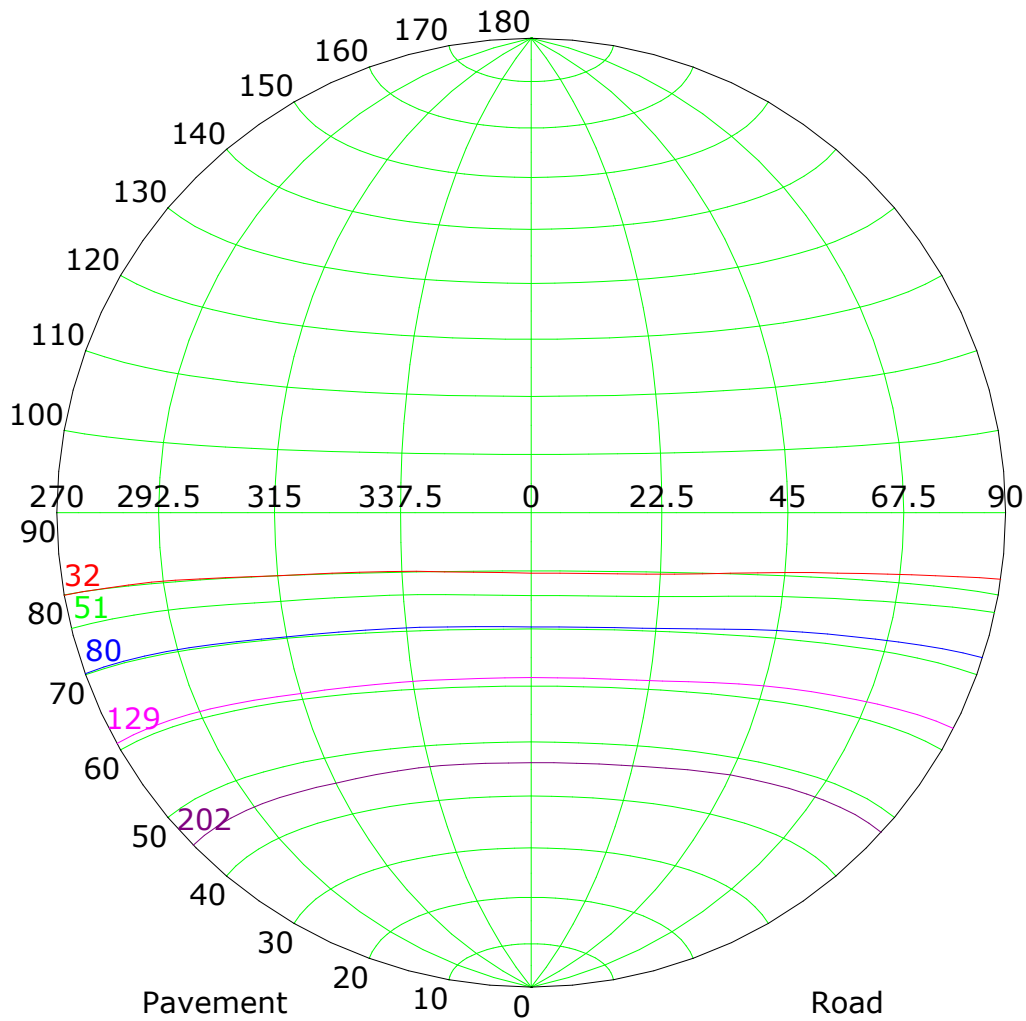
Distance: 7.792 m

Humidity:

Inspector:



## Isocandela (sphere)



Imax (100%): 321 cd

— ( 10%):	32 cd	— ( 16%):	51 cd
— ( 25%):	80 cd	— ( 40%):	129 cd
— ( 63%):	202 cd	— (100%):	321 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1800B

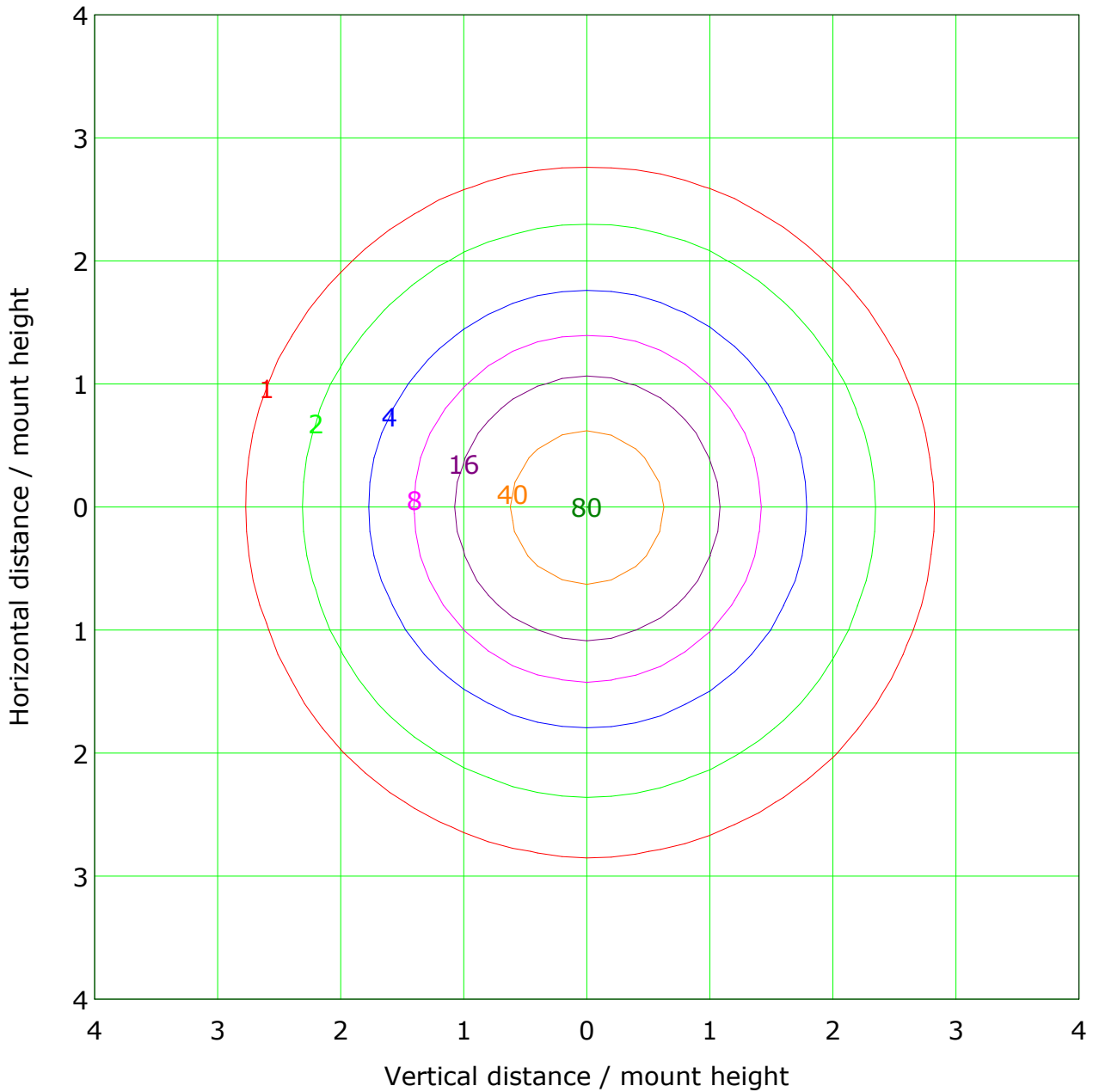
Distance: 7.792 m

Humidity:

Inspector:



## IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 80.3 lx
— ( 1%):	0.8 lx	— ( 2%): 1.6 lx
— ( 5%):	4.0 lx	— ( 10%): 8.0 lx
— ( 20%):	16.1 lx	— ( 50%): 40.2 lx
— (100%):	80.3 lx	

C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1800B  
Distance: 7.792 m  
Humidity:  
Inspector:

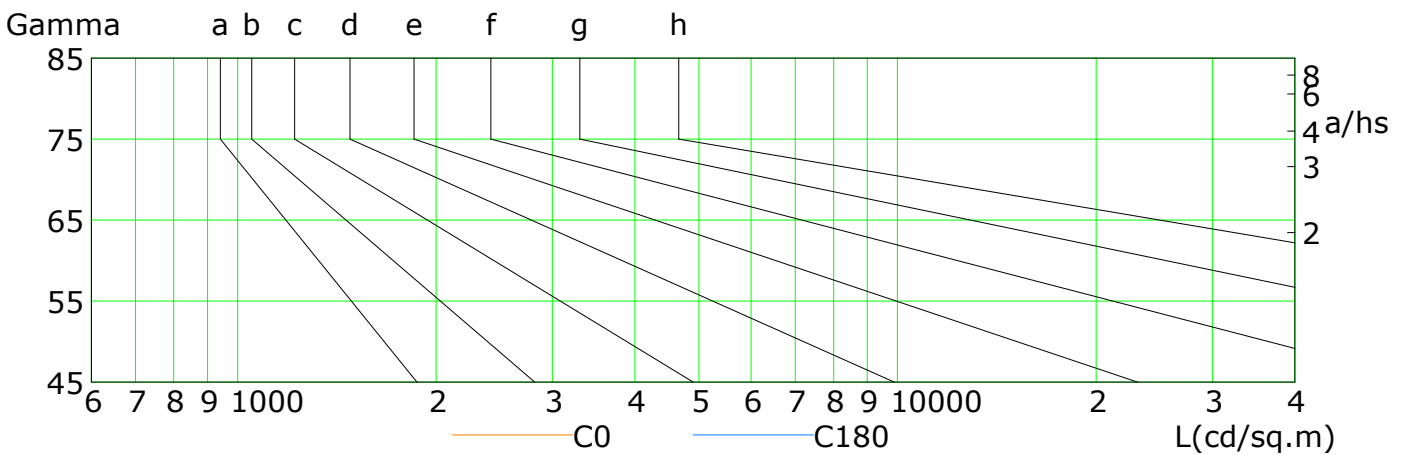
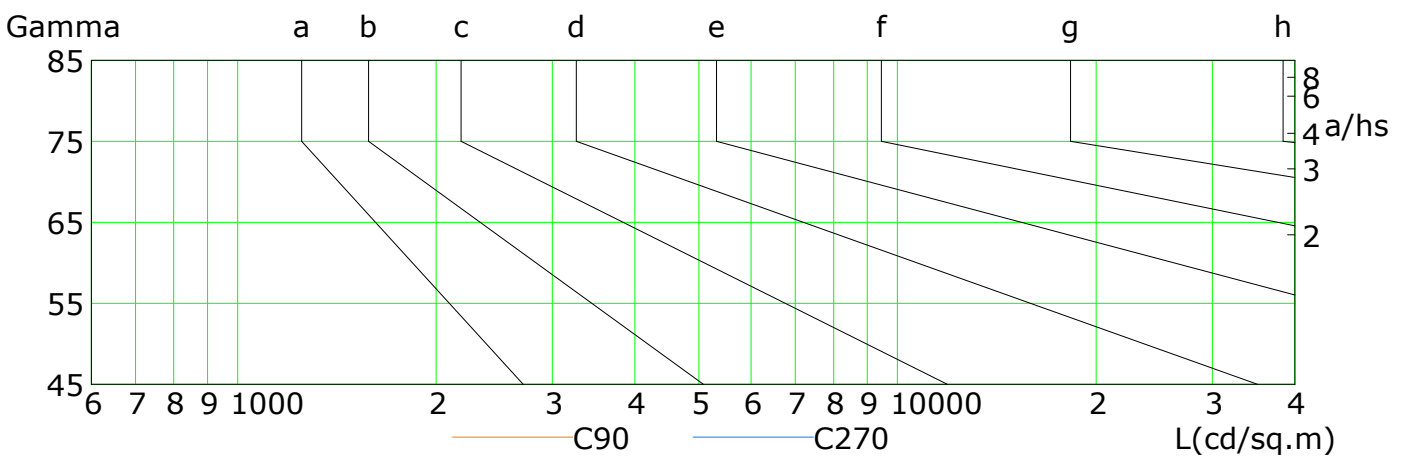




## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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

a b c d e f g h



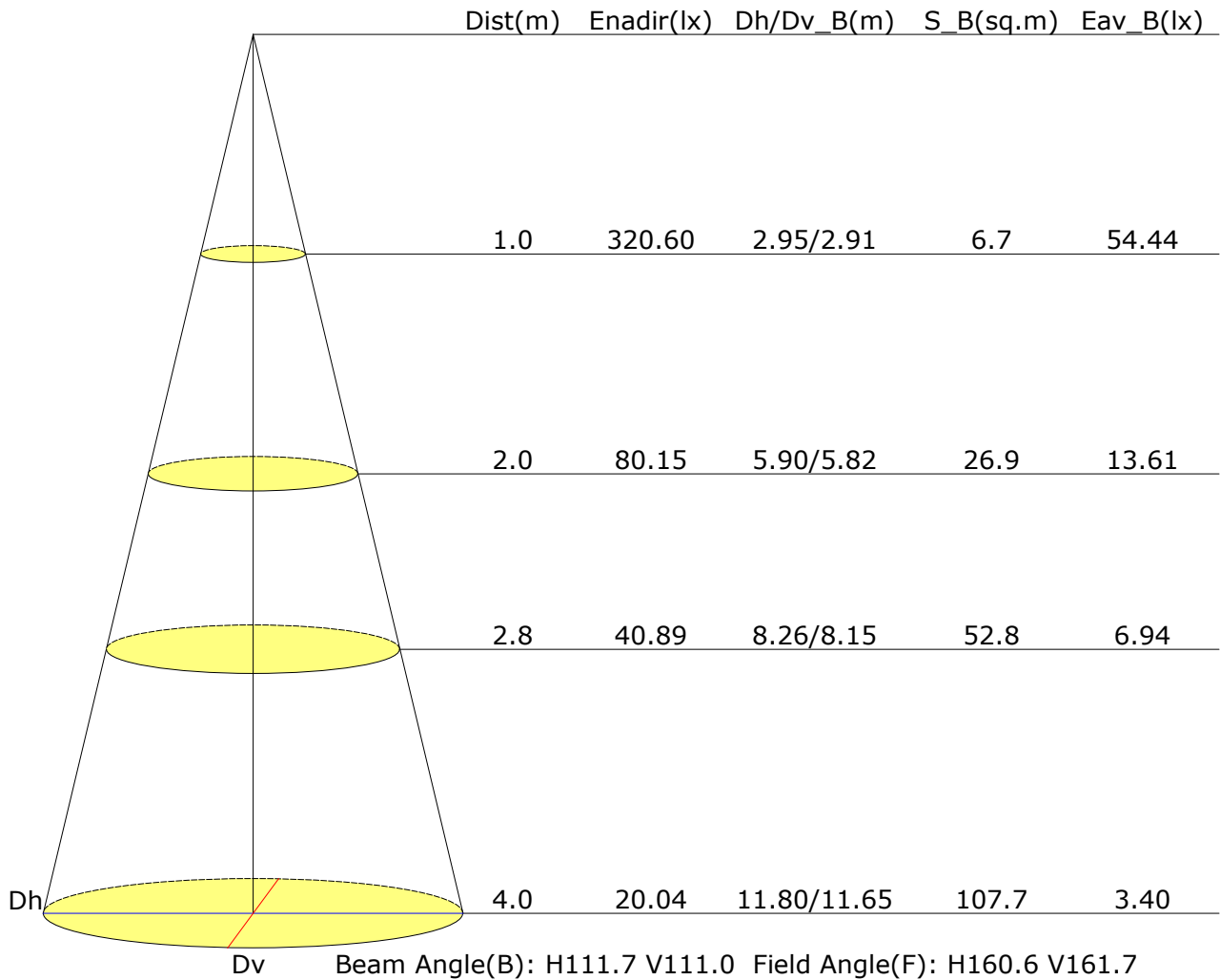
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	208	185	163	137	110	82	55	30	10
C90	214	192	168	143	118	92	66	40	19
C180	212	190	166	142	116	89	62	36	15
C270	204	182	158	133	107	81	55	32	14

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



## Illuminance at a Distance

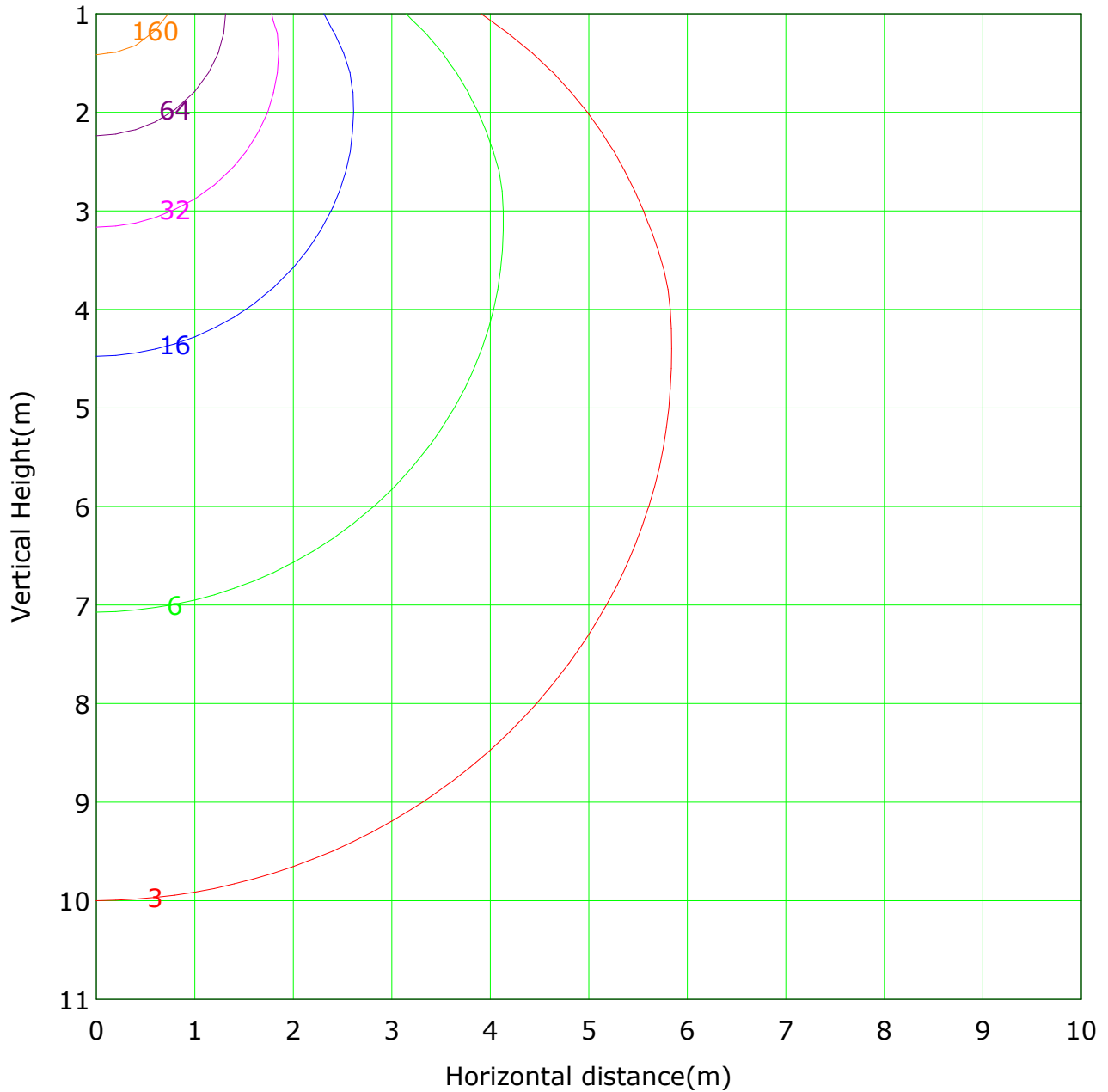


C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



## Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 320.6 lx
— ( 1%): 3.2 lx	— ( 2%): 6.4 lx	
— ( 5%): 16.0 lx	— ( 10%): 32.1 lx	
— ( 20%): 64.1 lx	— ( 50%): 160.3 lx	
— (100%): 320.6 lx		

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



Report No.:

Test Time: 03/10/2024 12:10

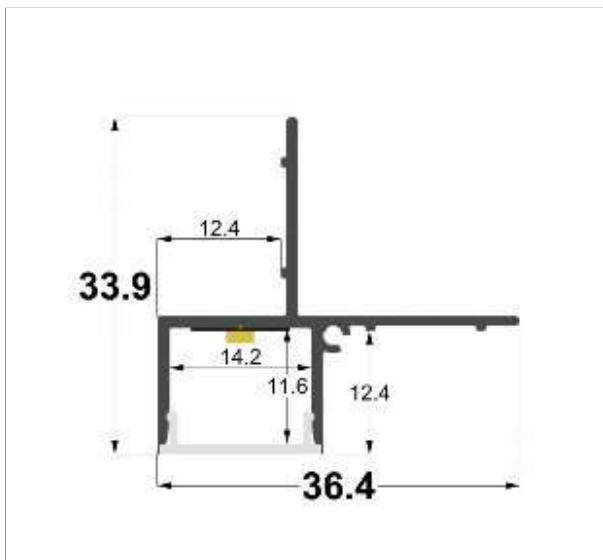
## Luminaire Property

Luminaire Manufacturer: Lighting Line  
 Luminaire Description: LLP-DW14-03+LLD-03-FW  
 Lamp Description: OR40sF521208F2/14.4 1m  
 Number of Lamps: 1  
 Voltage: 24.0 V  
 Power: 13.45 W  
 Lumens per Lamp: 1491  
 Current: 0.561 A  
 Power Factor: 1.000

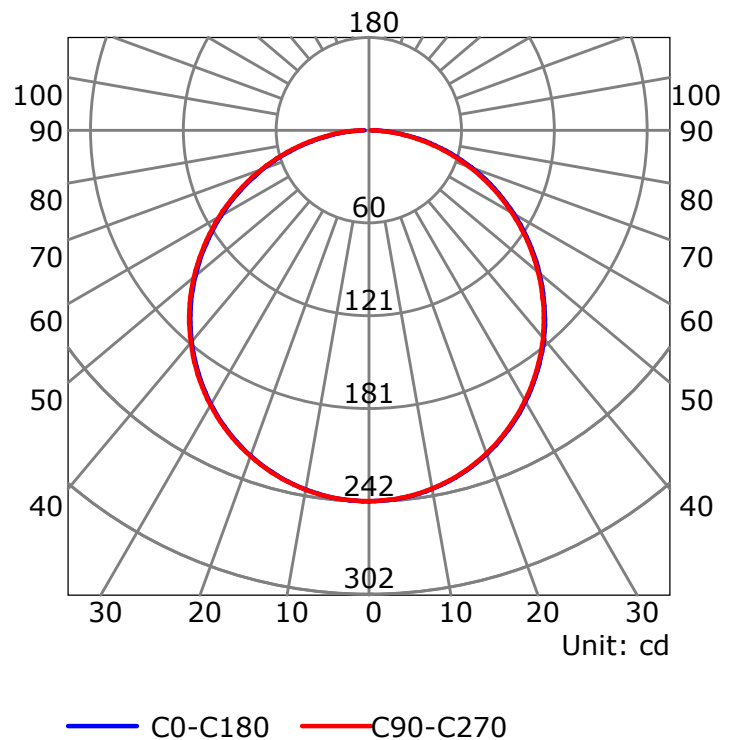
## Photometric Results

CIE Class: Direct  
 Measurement Flux: 714.4 lm  
 Downward Ratio: 47.91%  
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.3, 165.3, 165.7, 164.6  
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.3, 114.3, 114.2, 114.2  
 Luminaire Efficacy Rating (LER): 53.16  
 Max. Intensity: 242.39 cd  
 S/MH(C0/C180): 1.26  
 Total Rated Lamp Lumens: 1491.0 lm  
 Efficiency: 47.91%  
 Upward Ratio: 0.00%  
 Central Intensity: 242.25 cd  
 Pos of Max. Intensity: H157.5 V0  
 S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve

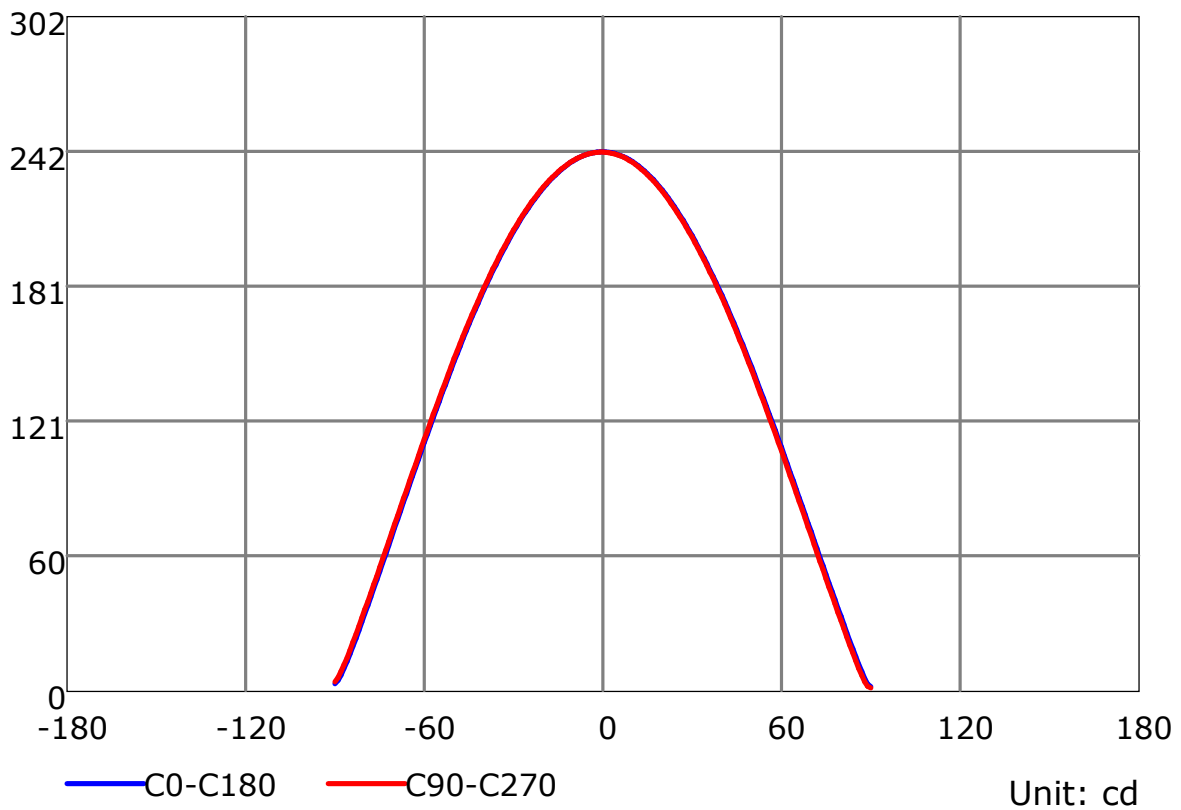
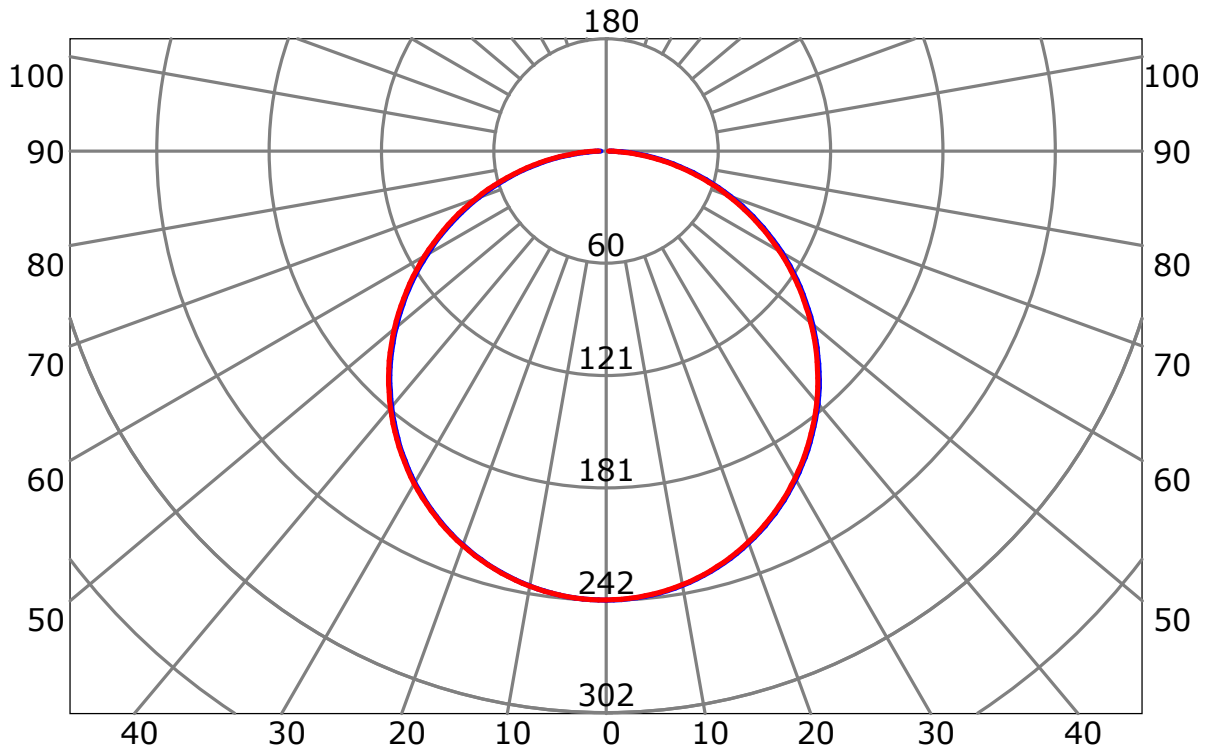


C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



## Luminous Intensity Distribution Curve

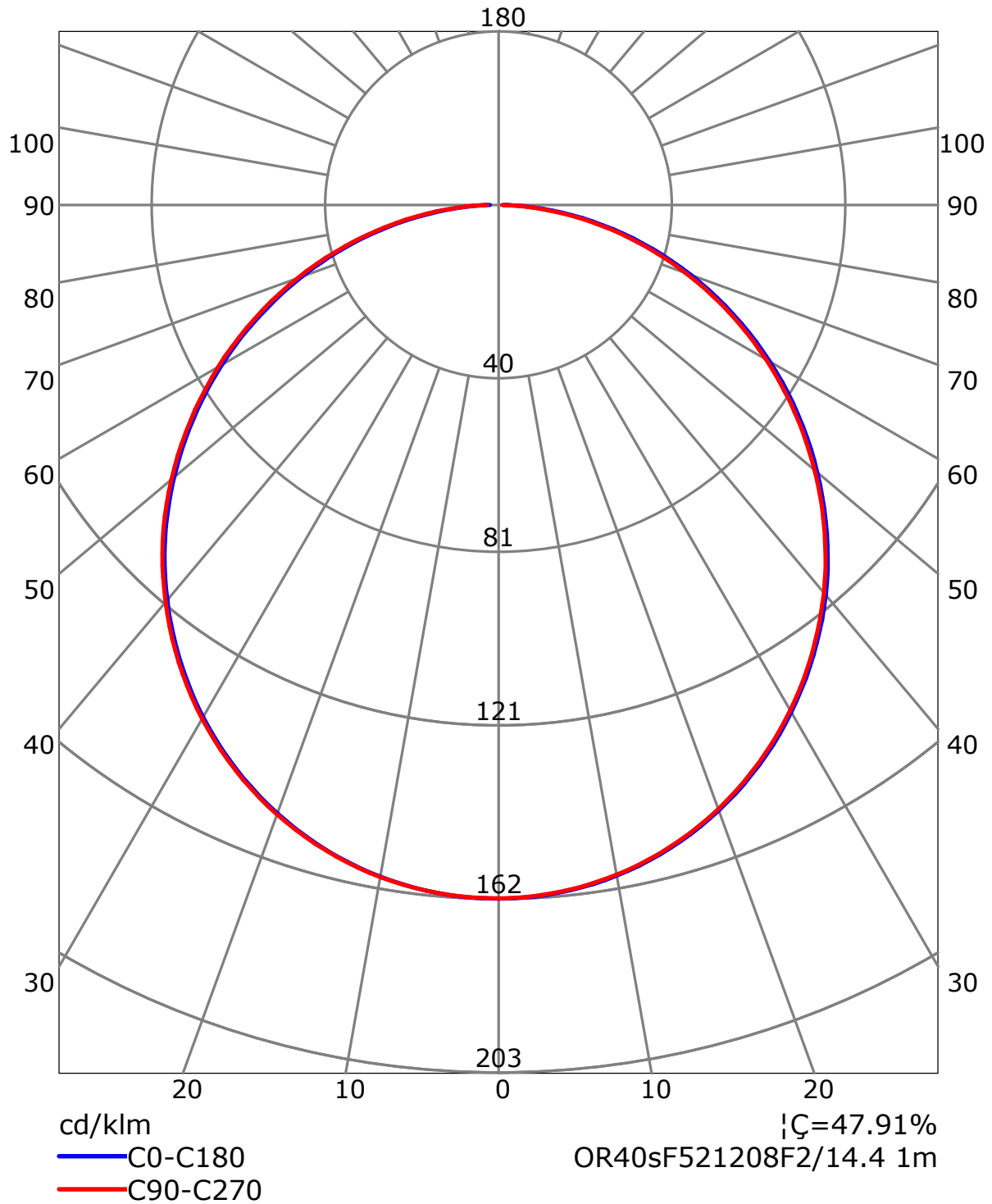


C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1800B  
Distance: 7.792 m  
Humidity:  
Inspector:



## Luminous Intensity Distribution Curve(cd/klm)

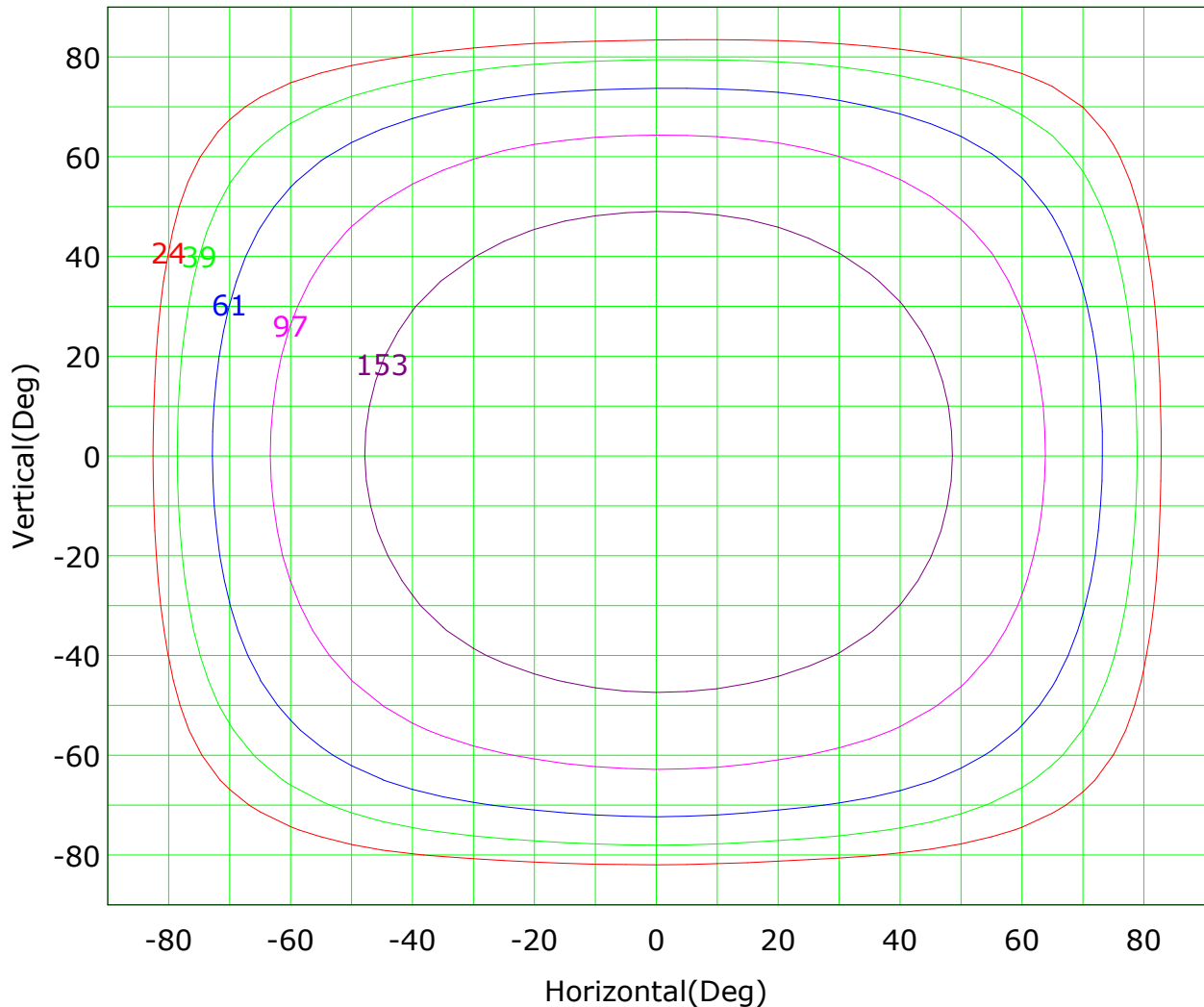


C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



## Isocandela (rectangle)



Imax (100%): 242 cd

— ( 10%):	24 cd	— ( 16%):	39 cd
— ( 25%):	61 cd	— ( 40%):	97 cd
— ( 63%):	153 cd	— (100%):	242 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1800B

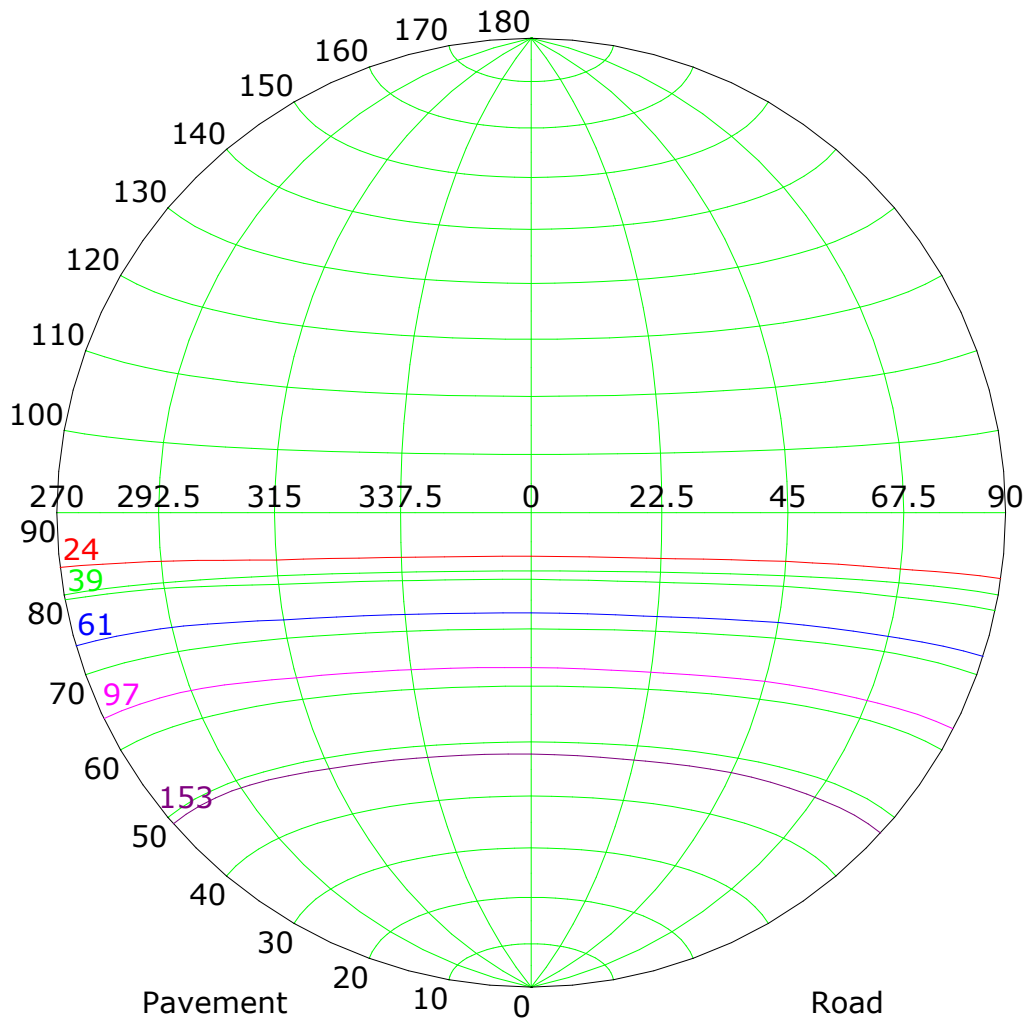
Distance: 7.792 m

Humidity:

Inspector:



## Isocandela (sphere)



Imax (100%): 242 cd

— ( 10%):	24 cd	— ( 16%):	39 cd
— ( 25%):	61 cd	— ( 40%):	97 cd
— ( 63%):	153 cd	— (100%):	242 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1800B

Distance: 7.792 m

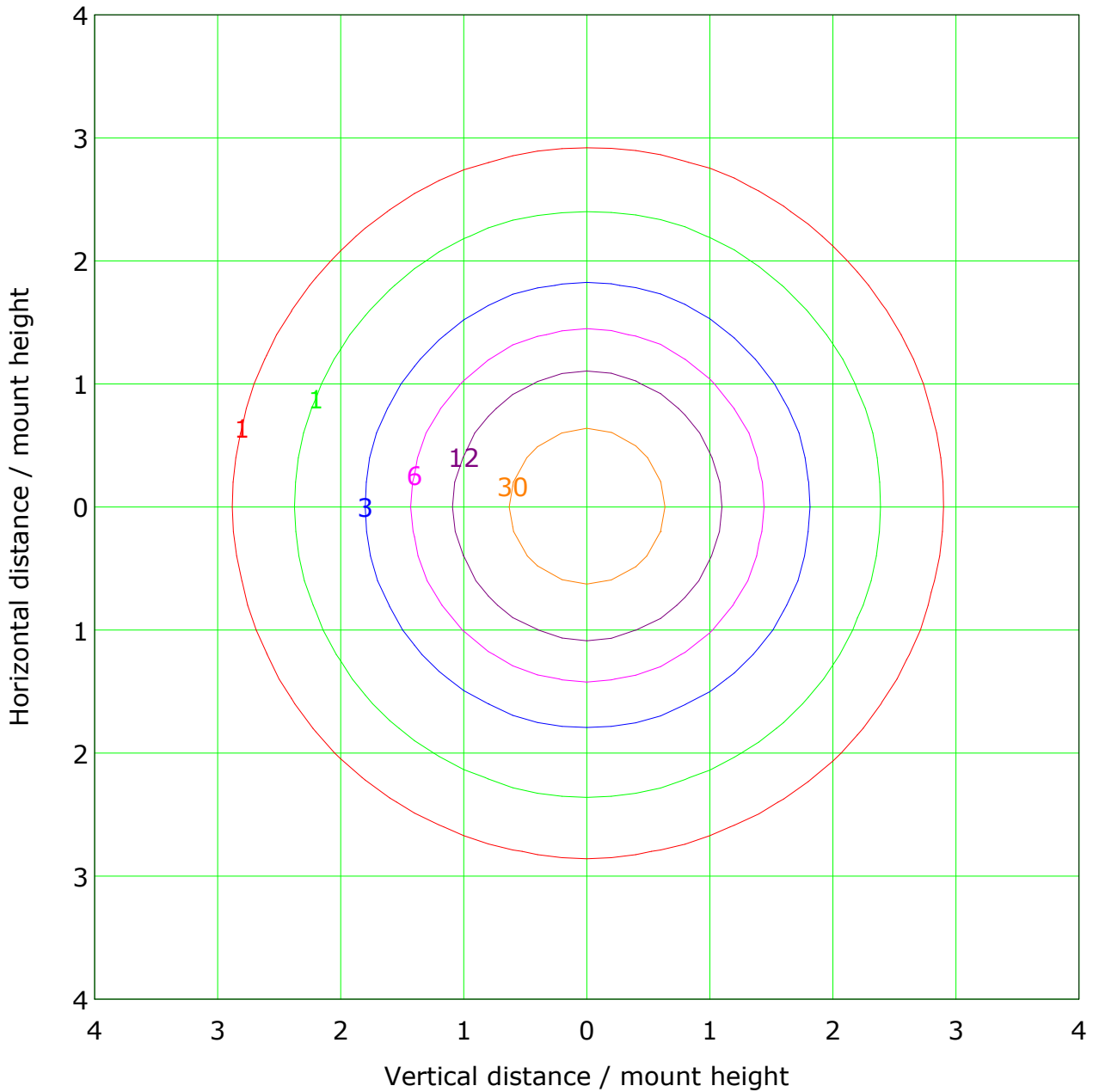
Humidity:

Inspector:





## IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 60.6 lx
<ul style="list-style-type: none"> <li><span style="color: red;">—</span> ( 1%): 0.6 lx</li> <li><span style="color: blue;">—</span> ( 5%): 3.0 lx</li> <li><span style="color: purple;">—</span> ( 20%): 12.1 lx</li> <li><span style="color: green;">—</span> (100%): 60.6 lx</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: green;">—</span> ( 2%): 1.2 lx</li> <li><span style="color: magenta;">—</span> ( 10%): 6.1 lx</li> <li><span style="color: orange;">—</span> ( 50%): 30.3 lx</li> </ul>	

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

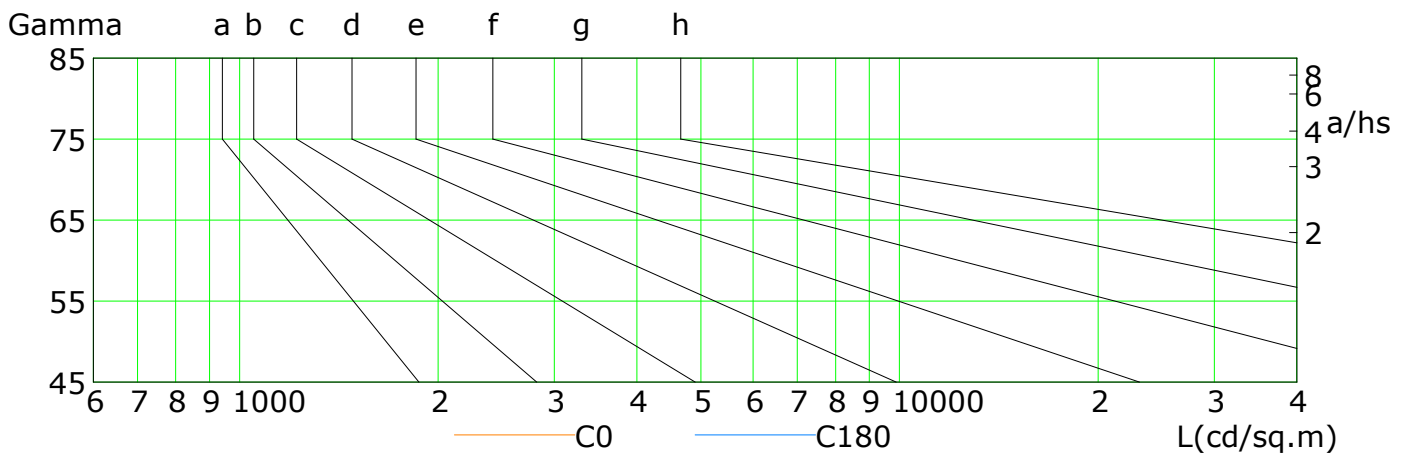
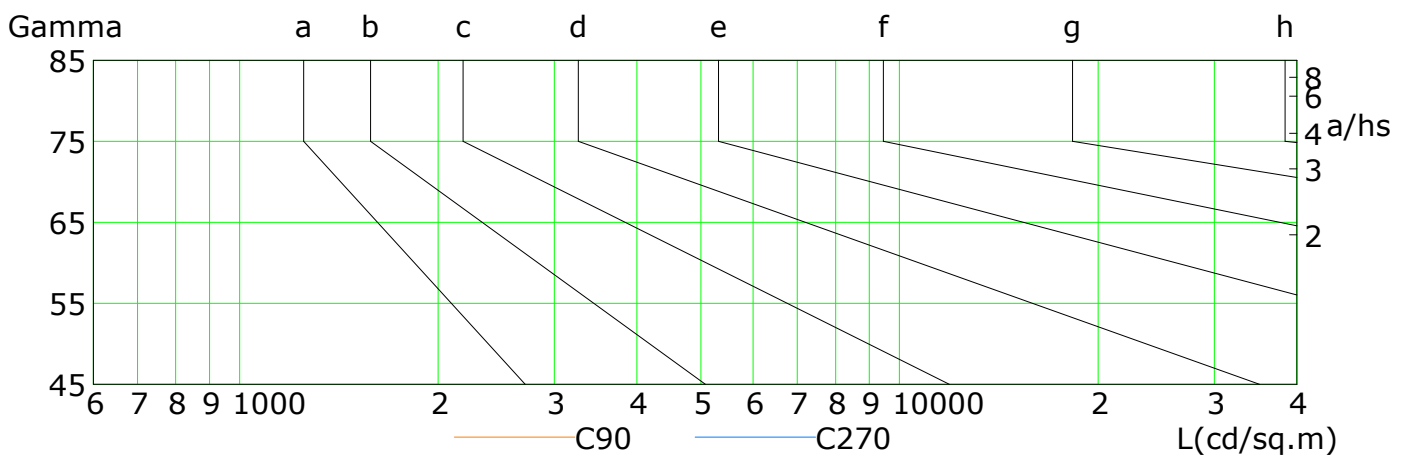
Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



## 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	162	145	128	109	90	71	52	33	15
C90	161	144	126	108	89	70	50	32	13
C180	165	148	130	112	93	73	54	35	16
C270	166	149	131	113	94	75	55	36	18

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1800B

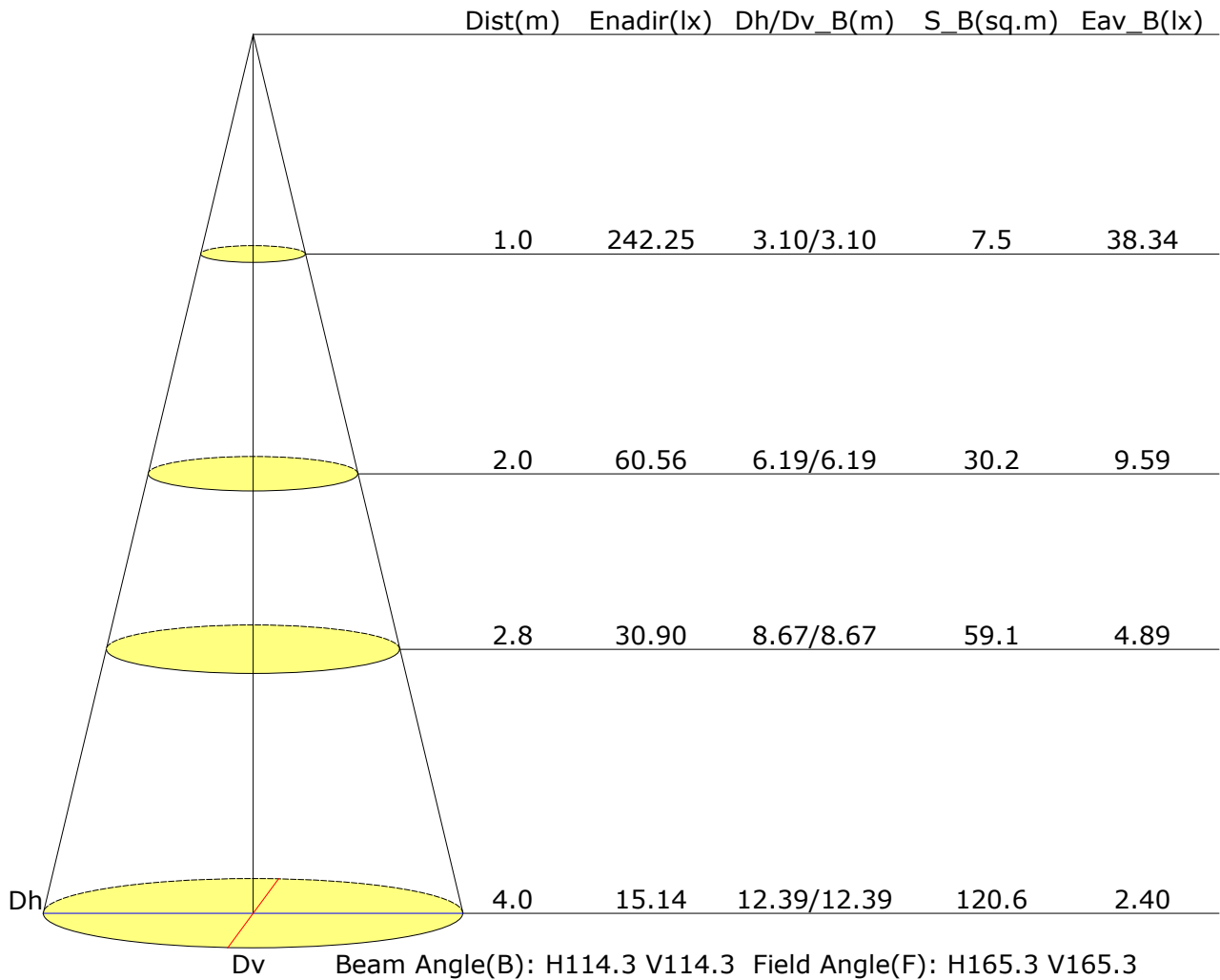
Distance: 7.792 m

Humidity:

Inspector:



## Illuminance at a Distance

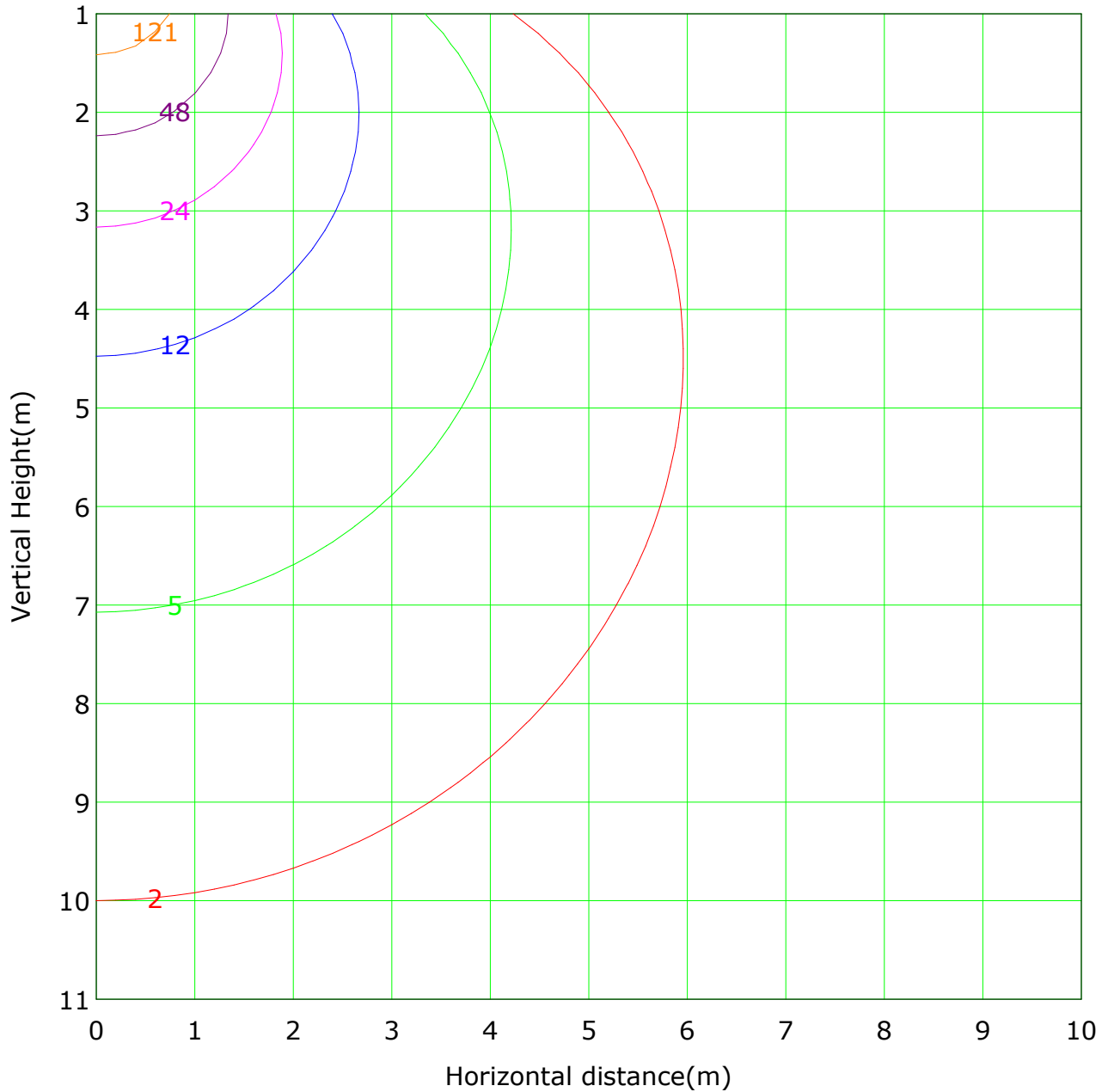


C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 242.3 lx

— ( 1%): 2.4 lx	— ( 2%): 4.8 lx
— ( 5%): 12.1 lx	— ( 10%): 24.2 lx
— ( 20%): 48.5 lx	— ( 50%): 121.1 lx
— (100%): 242.3 lx	

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



Report No.:

Test Time: 03/10/2024 15:09

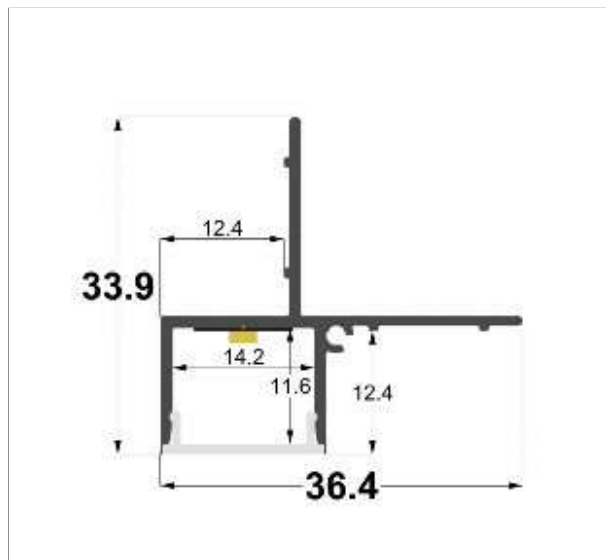
## Luminaire Property

Luminaire Manufacturer: Lighting Line  
 Luminaire Description: LLP-DW14-03+LLD-03-FXK  
 Lamp Description: OR40sF521208F2/14.4 1m  
 Number of Lamps: 1  
 Voltage: 24.0 V  
 Power: 13.46 W  
 Lumens per Lamp: 1491  
 Current: 0.561 A  
 Power Factor: 1.000

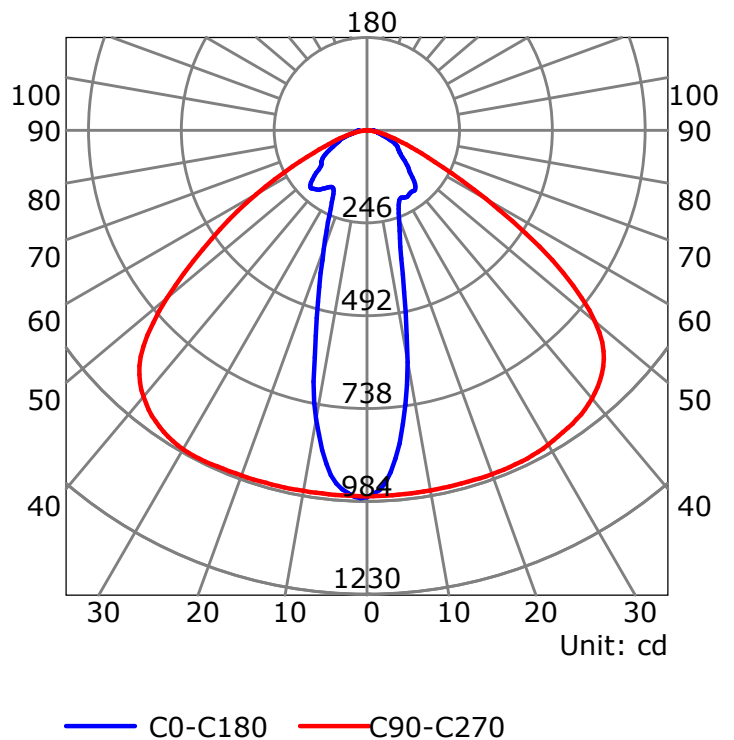
## Photometric Results

CIE Class: Direct  
 Measurement Flux: 1208.8 lm  
 Downward Ratio: 81.07%  
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 123.4, 142.0, 124.3, 123.6  
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 27.8, 112.7, 36.8, 35.8  
 Luminaire Efficacy Rating (LER): 89.86  
 Max. Intensity: 980.64 cd  
 S/MH(C0/C180): 0.46  
 Total Rated Lamp Lumens: 1491.0 lm  
 Efficiency: 81.07%  
 Upward Ratio: 0.00%  
 Central Intensity: 972.98 cd  
 Pos of Max. Intensity: H157.5 V1  
 S/MH(C90/C270): 1.50

Picture Of Luminaire



Luminous Intensity Distribution Curve

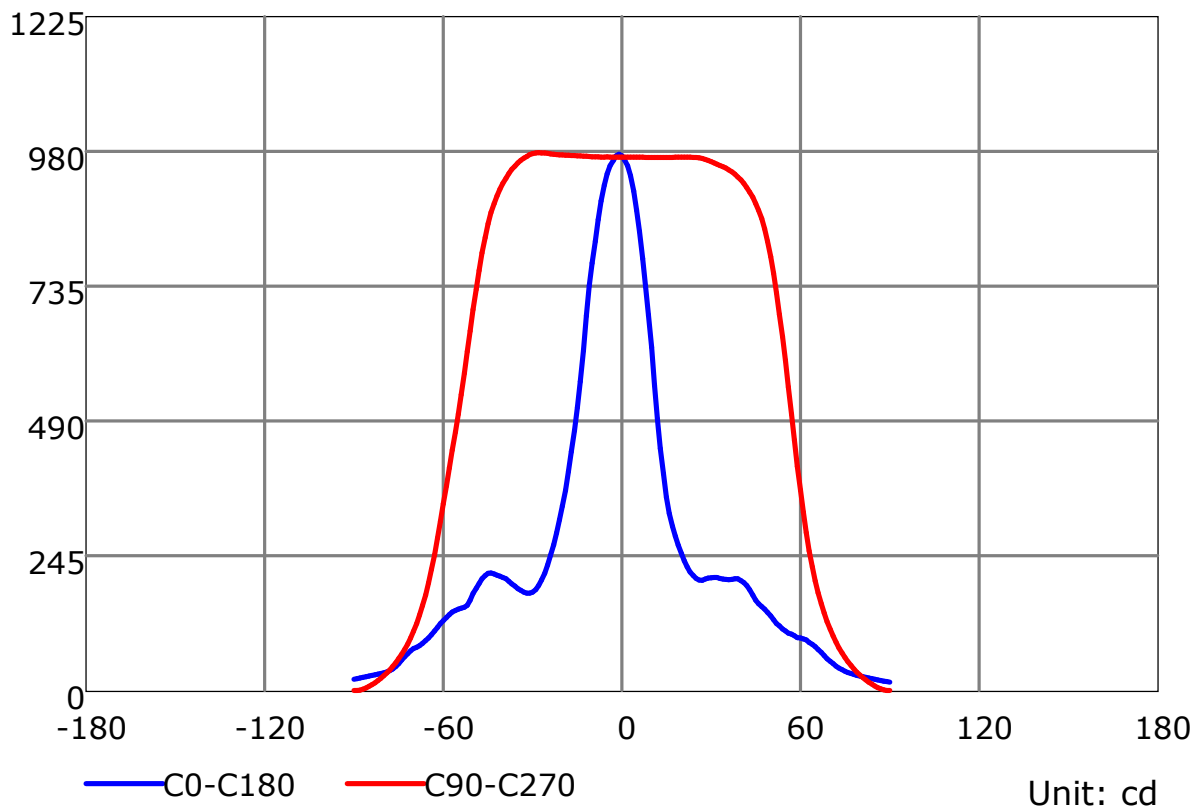
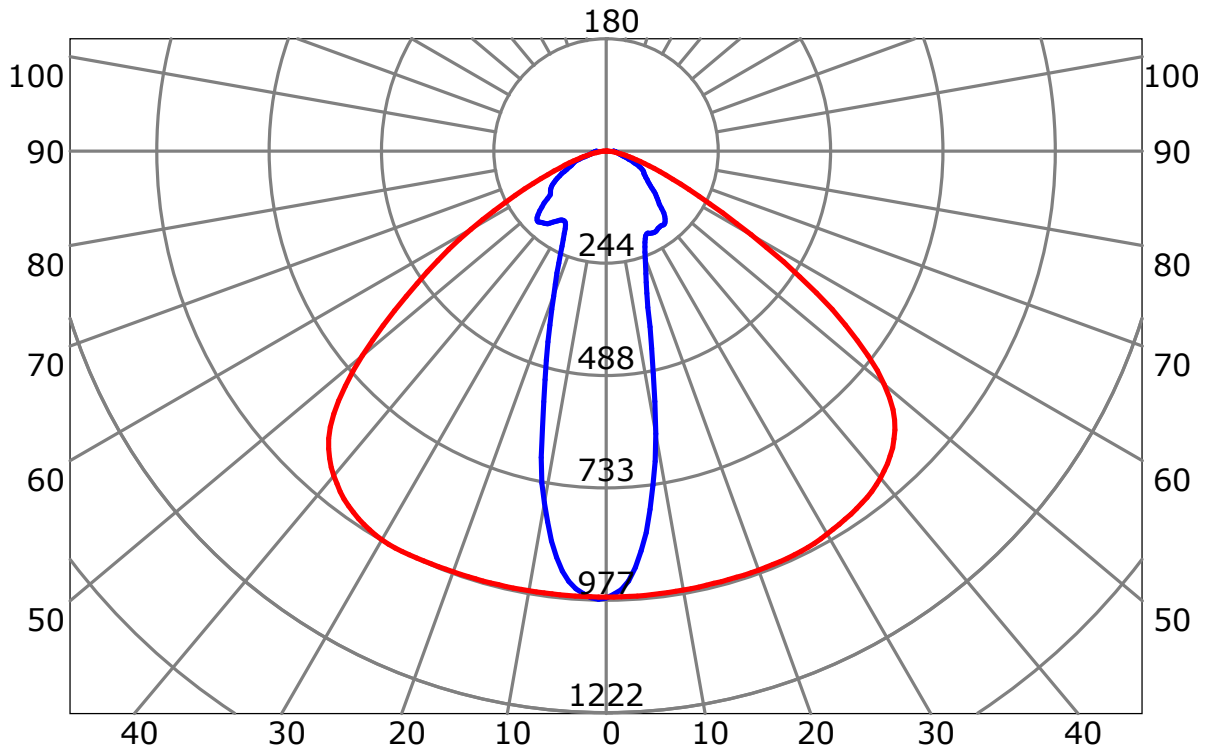


C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



## Luminous Intensity Distribution Curve

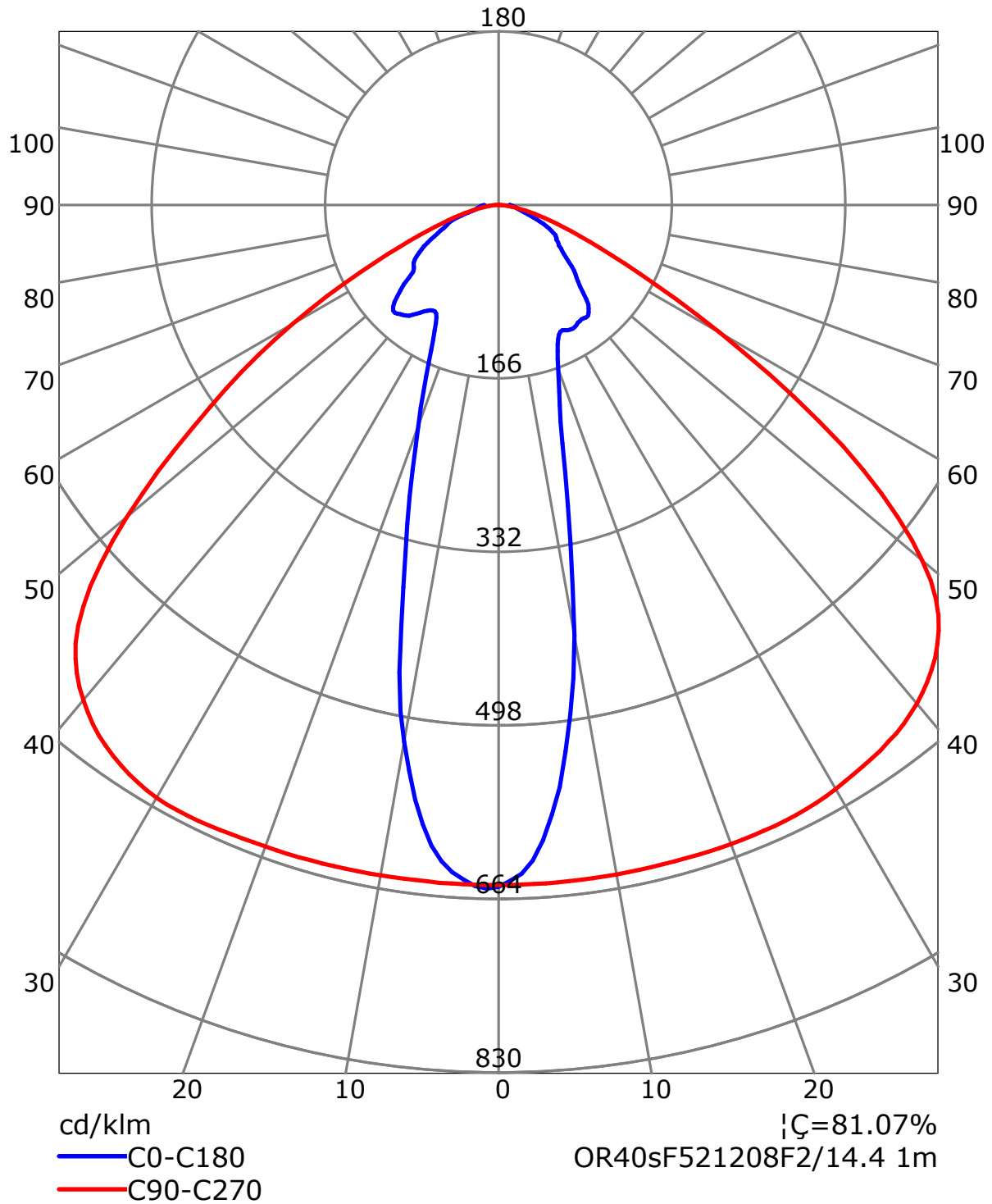


C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:



## Luminous Intensity Distribution Curve(cd/klm)

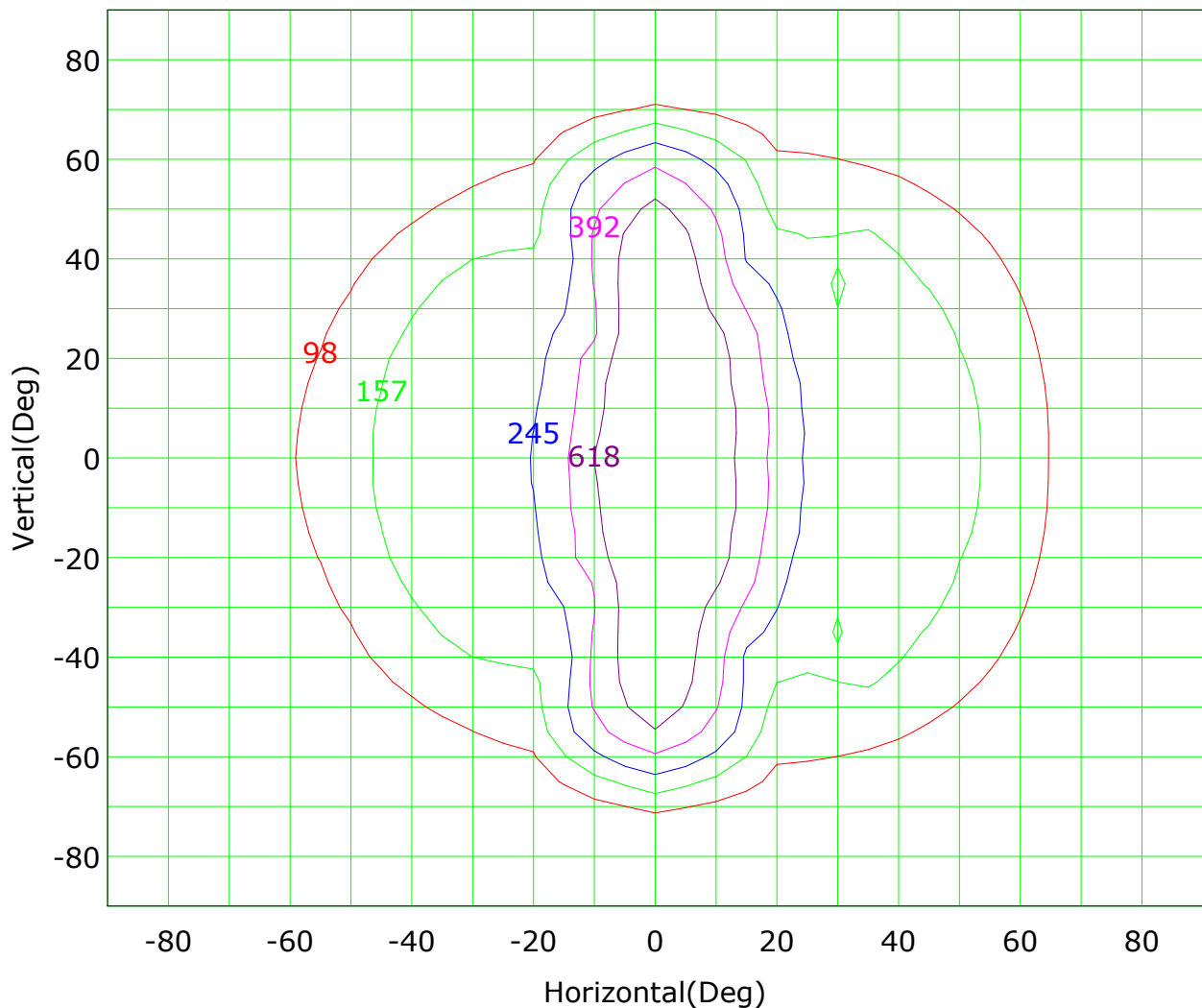


C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1800B  
Distance: 7.792 m  
Humidity:  
Inspector:



## Isocandela (rectangle)



Imax (100%): 981 cd

— ( 10%):	98 cd	— ( 16%):	157 cd
— ( 25%):	245 cd	— ( 40%):	392 cd
— ( 63%):	618 cd	— (100%):	981 cd

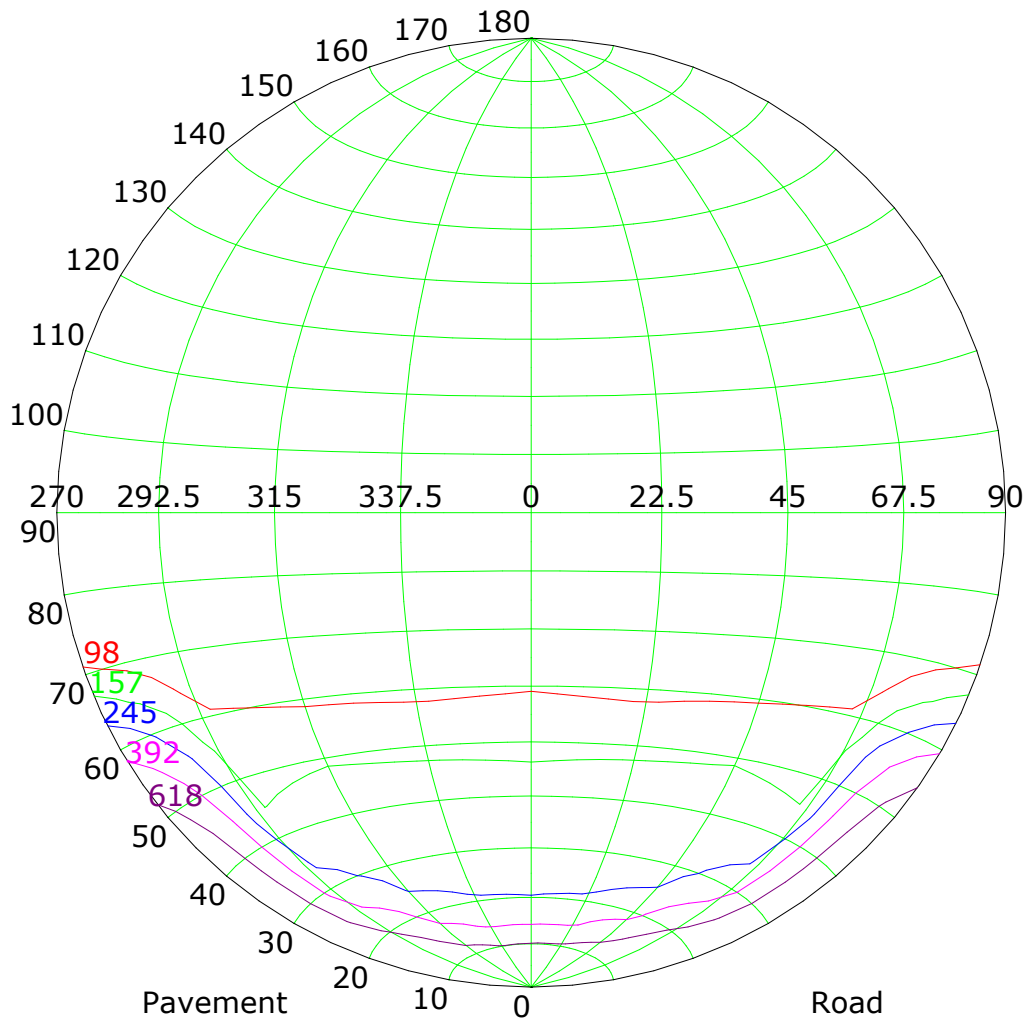
C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1800B  
Distance: 7.792 m  
Humidity:  
Inspector:





## Isocandela (sphere)



Imax (100%): 981 cd

- |                  |                  |
|------------------|------------------|
| — ( 10%): 98 cd  | — ( 16%): 157 cd |
| — ( 25%): 245 cd | — ( 40%): 392 cd |
| — ( 63%): 618 cd | — (100%): 981 cd |

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1800B

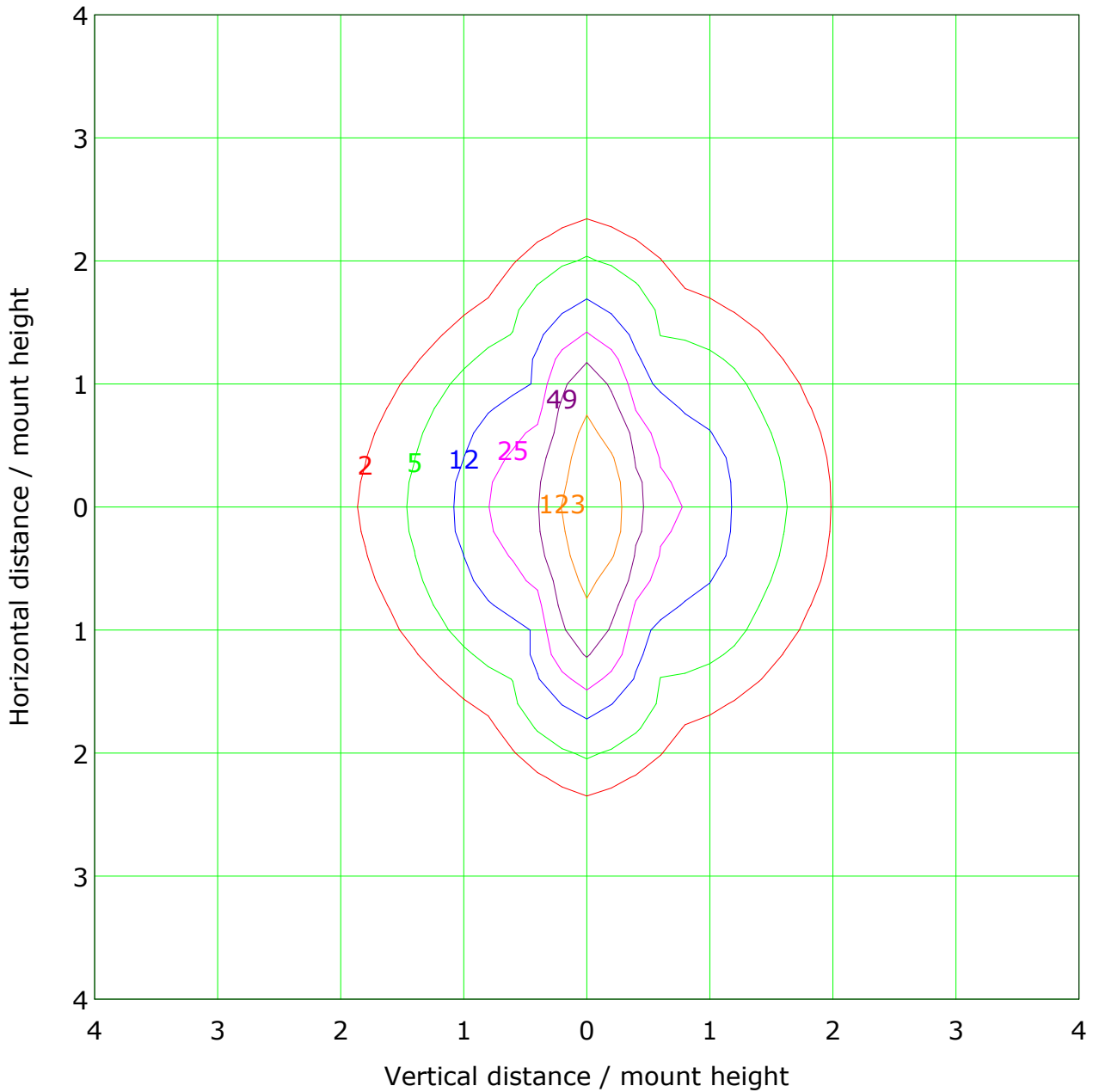
Distance: 7.792 m

Humidity:

Inspector:



## IsoLux Plot



Mounting Height: 2.0m		Max Lux(100%): 245.0 lx
<ul style="list-style-type: none"> <li><span style="color: red;">—</span> ( 1%): 2.5 lx</li> <li><span style="color: blue;">—</span> ( 5%): 12.3 lx</li> <li><span style="color: purple;">—</span> ( 20%): 49.0 lx</li> <li><span style="color: green;">—</span> (100%): 245.0 lx</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: green;">—</span> ( 2%): 4.9 lx</li> <li><span style="color: purple;">—</span> ( 10%): 24.5 lx</li> <li><span style="color: orange;">—</span> ( 50%): 122.5 lx</li> </ul>	

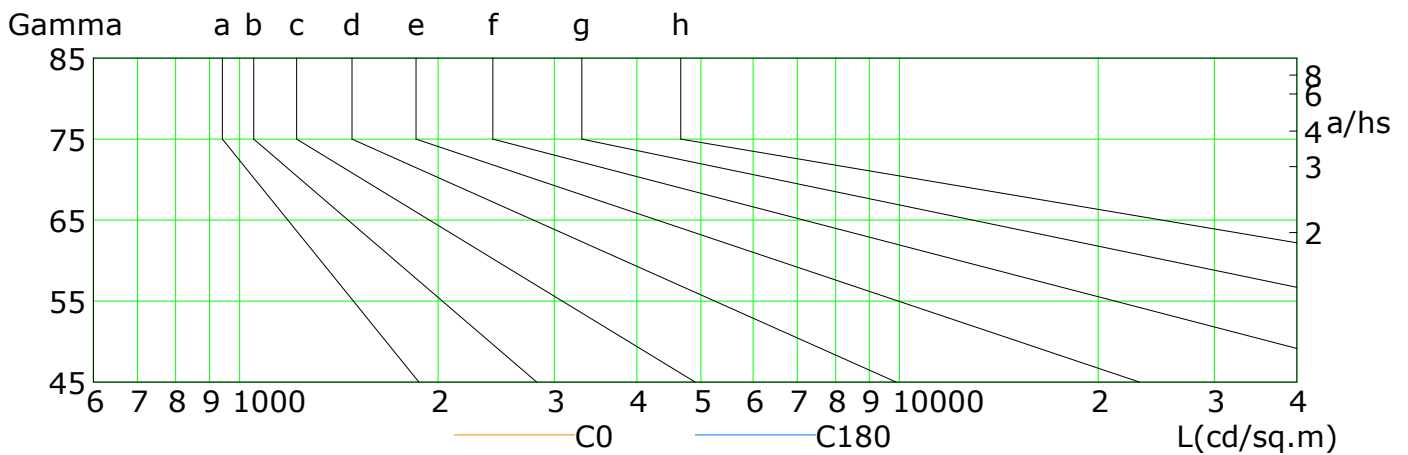
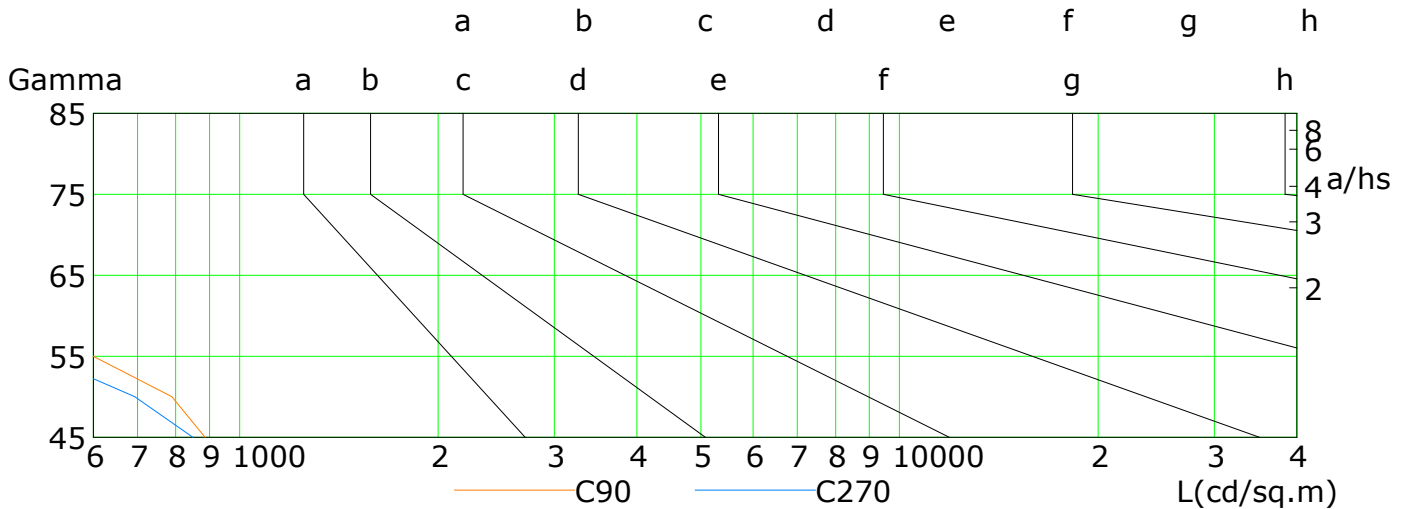
C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 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



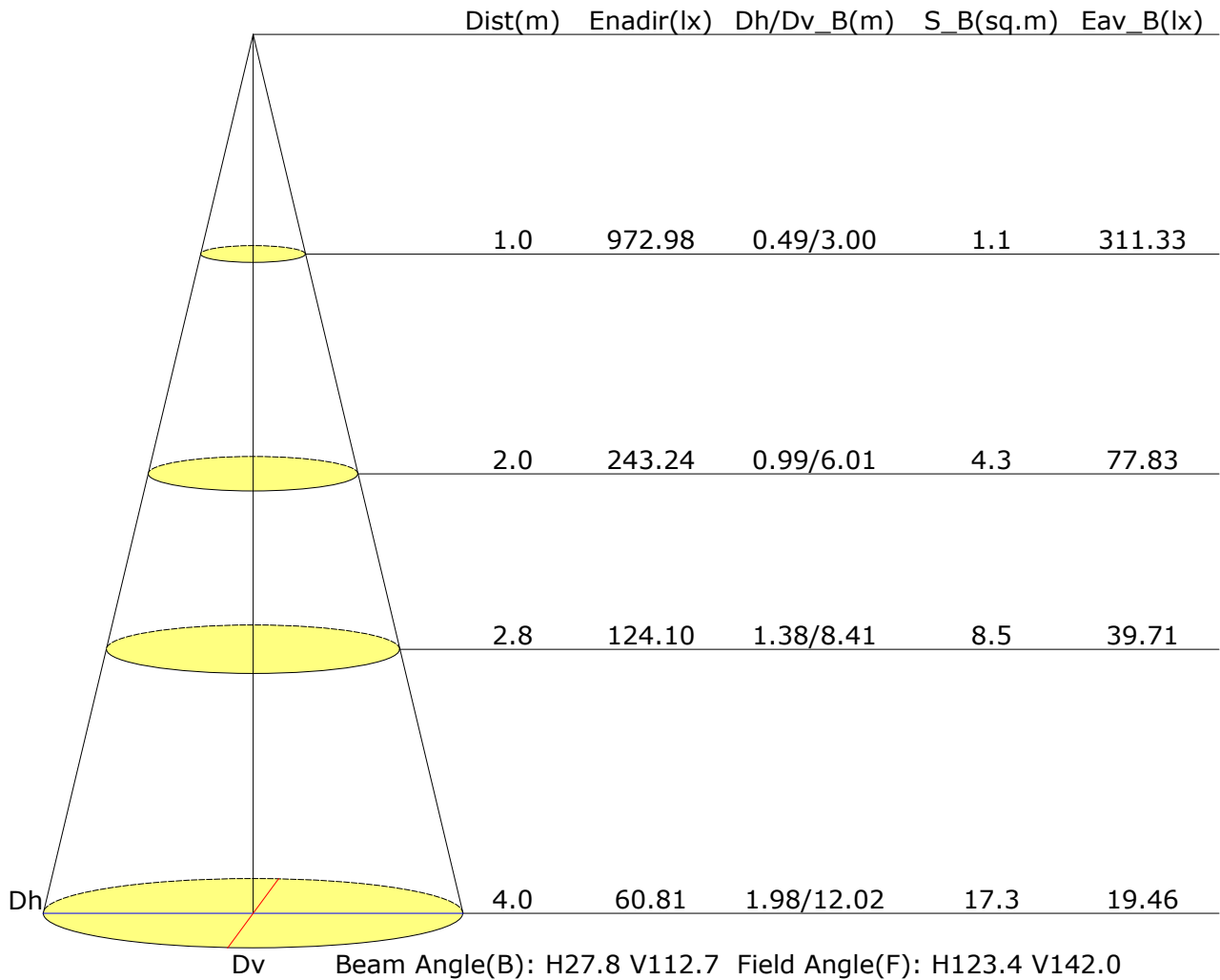
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	164	136	109	96	80	53	35	26	21
C90	886	790	601	365	199	111	60	28	8
C180	213	177	148	127	96	76	49	33	26
C270	849	693	503	340	196	108	58	27	8

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector:

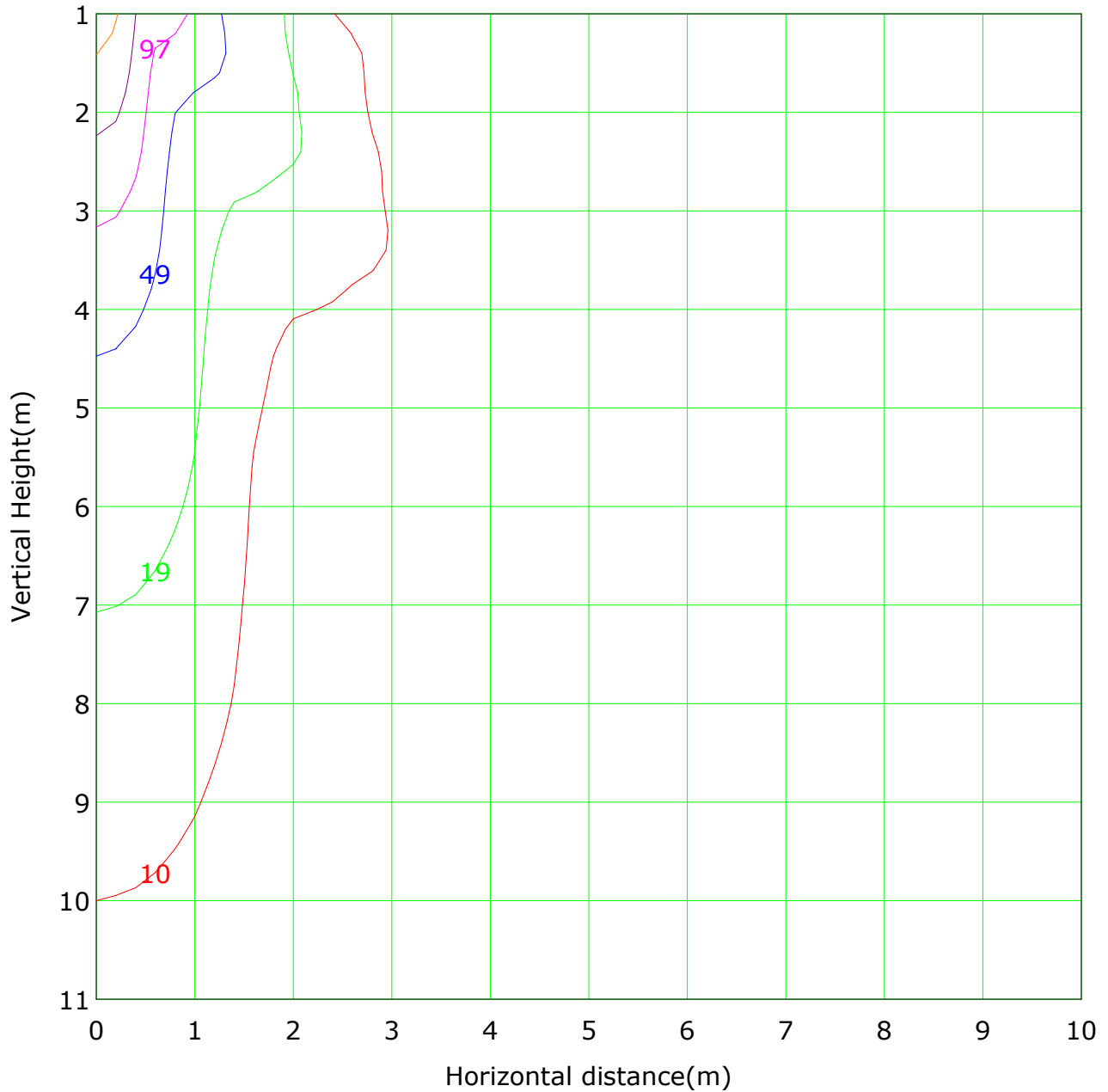


## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 973.0 lx  
 — ( 1%): 9.7 lx                      — ( 2%): 19.5 lx  
 — ( 5%): 48.6 lx                      — (10%): 97.3 lx  
 — (20%): 194.6 lx                    — (50%): 486.5 lx  
 — (100%): 973.0 lx

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1800B  
 Distance: 7.792 m  
 Humidity:  
 Inspector: