

Report No.:

Test Time: 2020-08-21 16:44

## Luminaire Property

Luminaire Manufacturer: Brilliance.led.Ilc

Luminaire Description: MR16 7W 3000K 60DEG

Voltage: 12.0 V

Current: 0.558 A

Power: 6.69 W

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 653.9 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 84.1, 83.5, 83.8, 82.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 55.4, 55.0, 55.4, 55.0

Luminaire Efficacy Rating (LER): 97.79

Total Rated Lamp Lumens: 653.9 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 771 cd

Pos of Max. Intensity: H90 V4

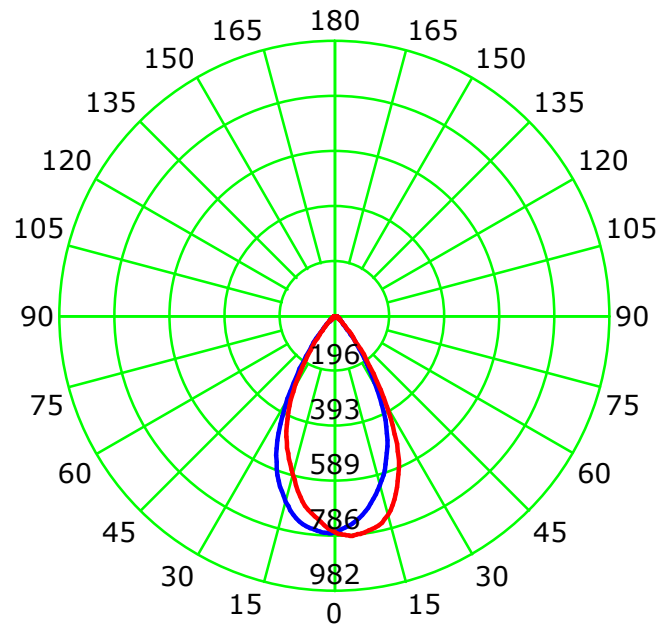
S/MH(C0/C180): 0.87

S/MH(C90/C270): 0.88

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator: Brilliance.led.Ilc

Gamma Plane (°):0.0-90.0:1.0

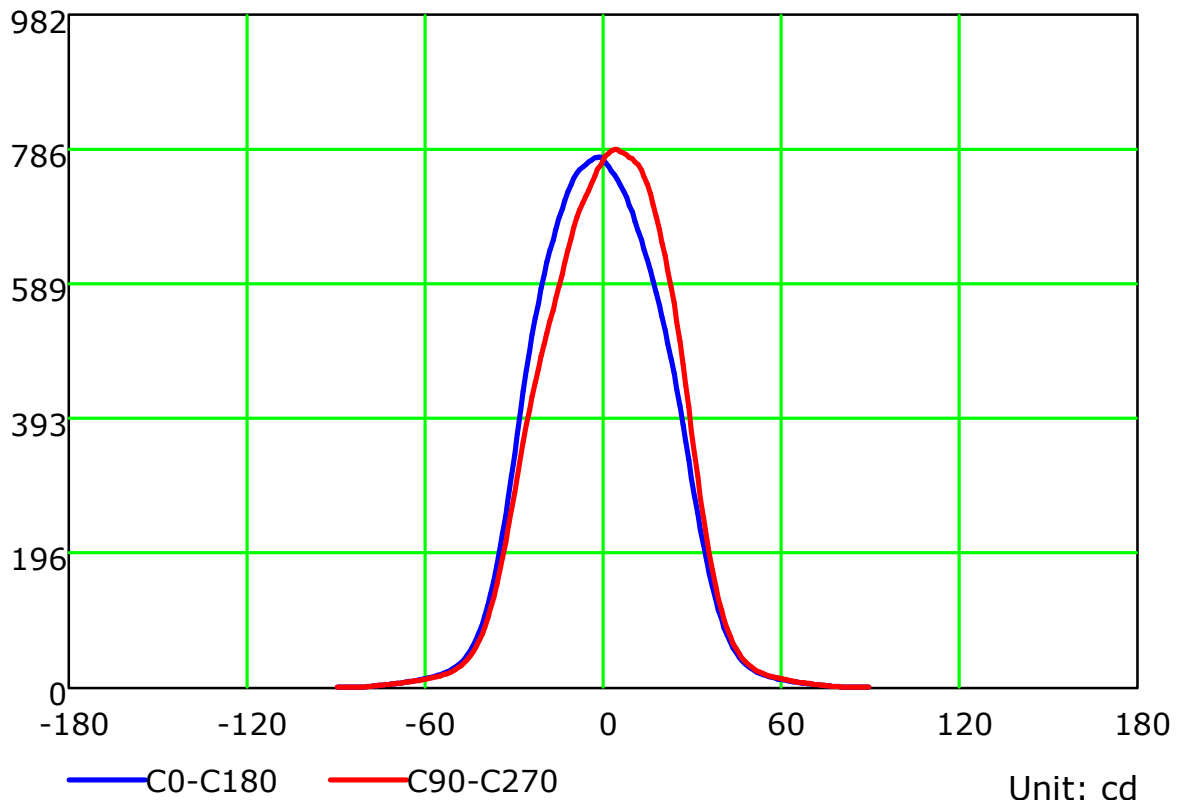
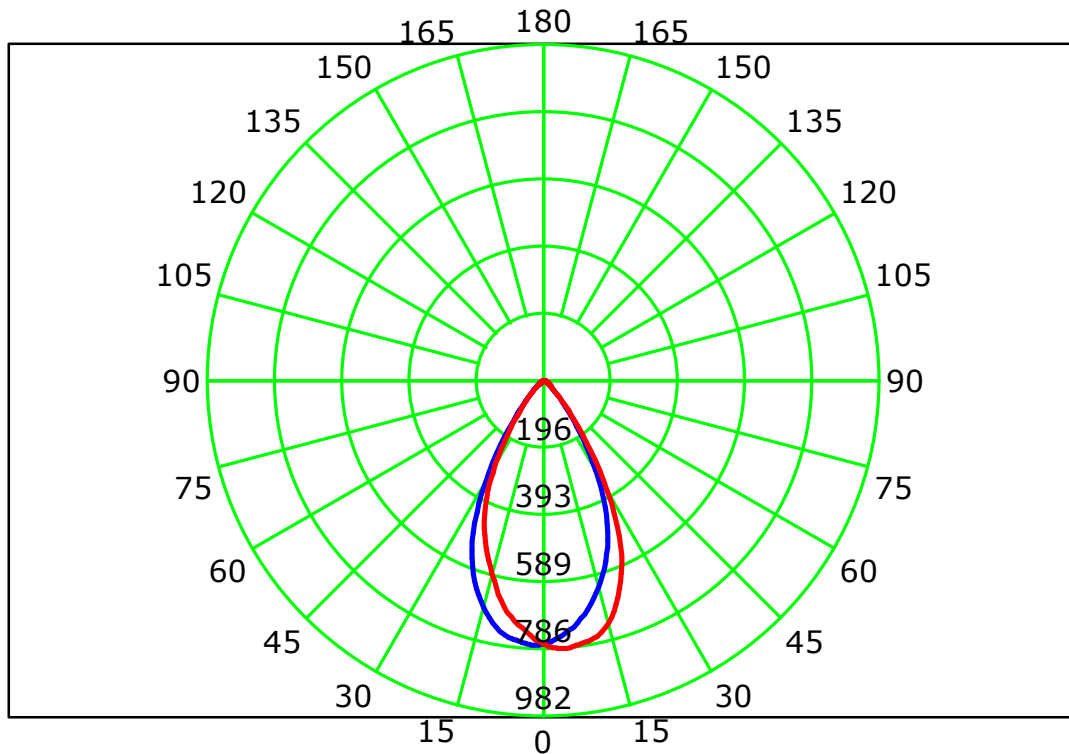
Test Device: GPM-1600L

Distance: 8.549 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve

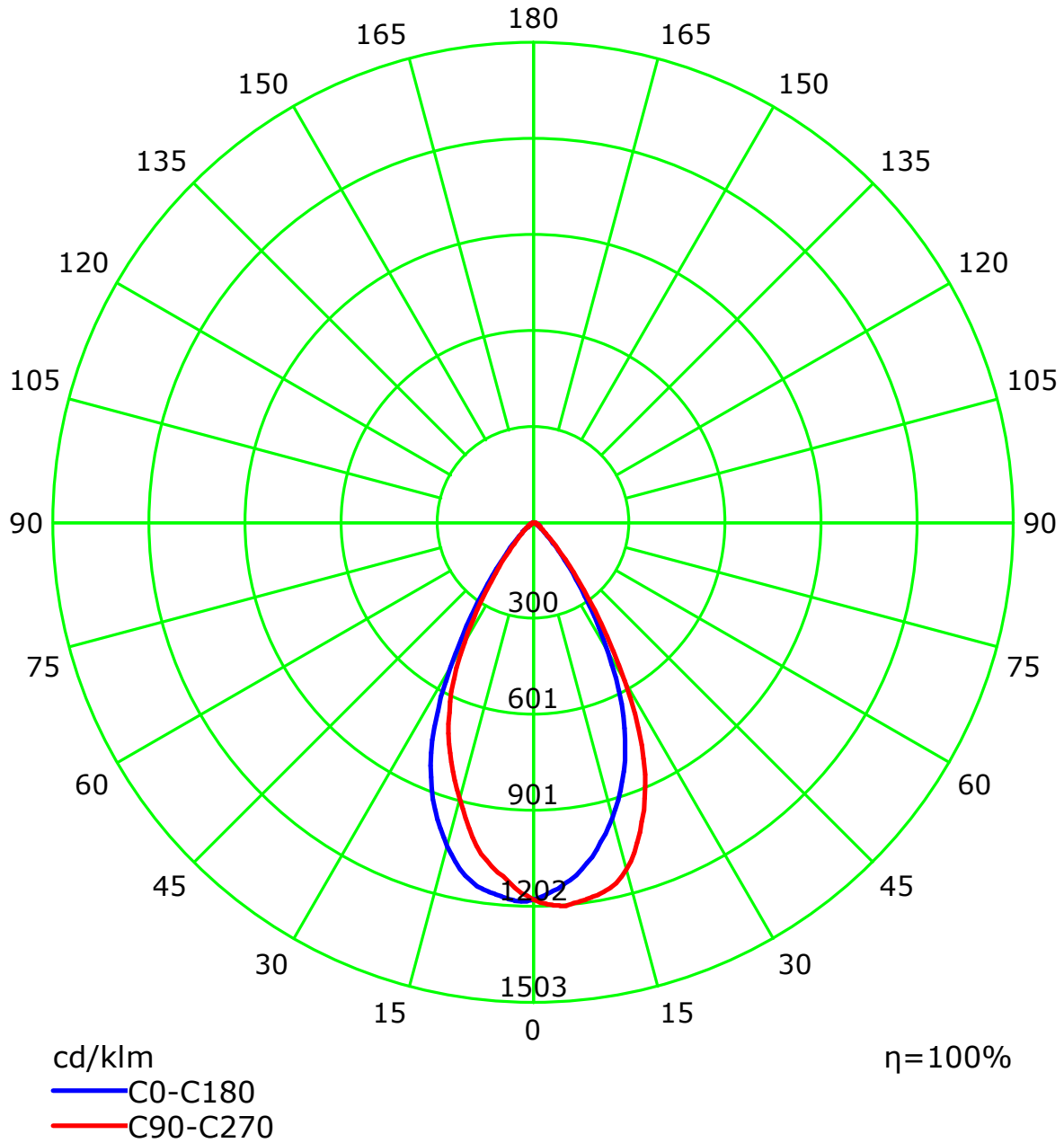


Unit: cd

C Plane (°): 0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: Brilliance.led.IIc

Gamma Plane (°): 0.0-90.0: 1.0  
Test Device: GPM-1600L  
Distance: 8.549 m  
Humidity:  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: Brilliance.led.llc

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1600L  
Distance: 8.549 m  
Humidity:  
Inspector:

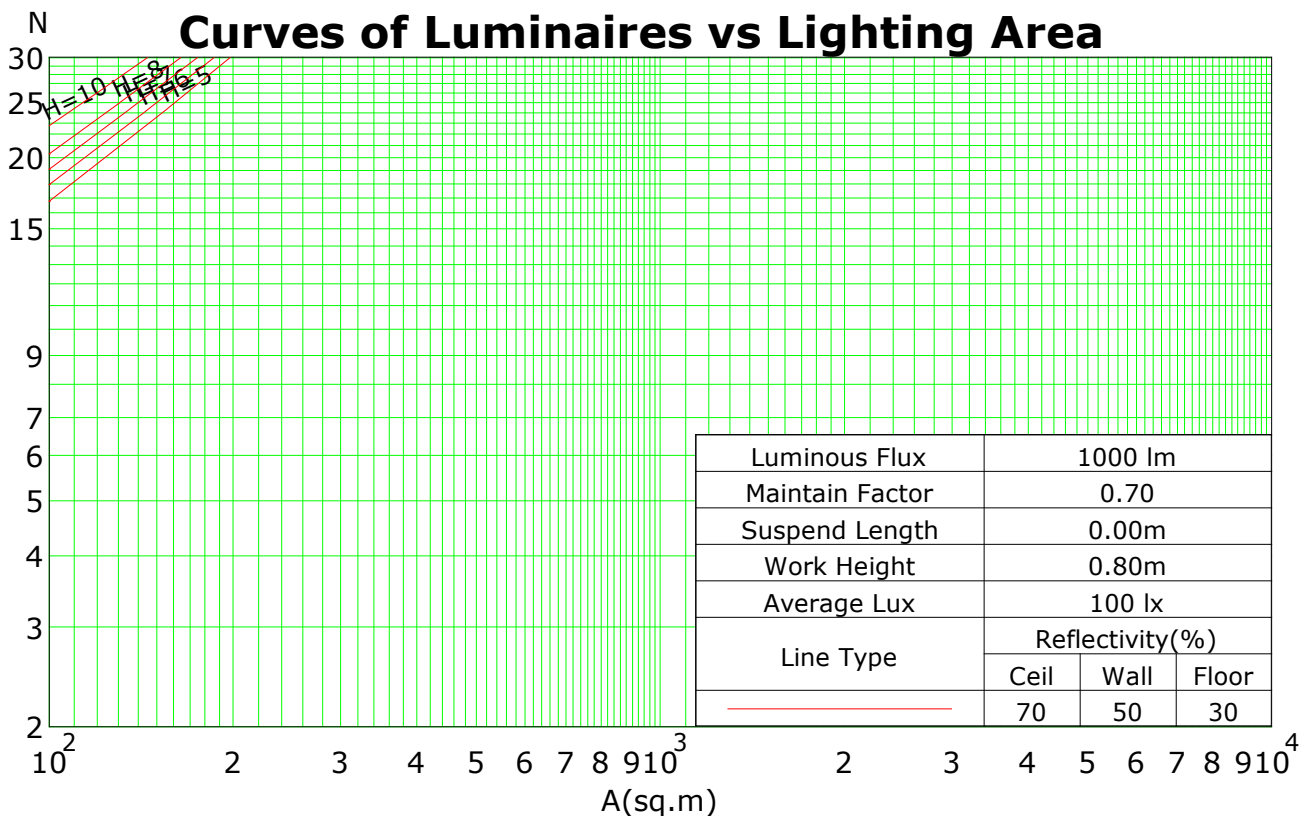
## Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69
6	87	78	72	68	86	77	72	67	76	71	67	74	70	67	73	69	66	65
7	83	73	67	63	82	73	67	63	72	66	63	70	66	62	69	65	62	60
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50

Spacing Criteria (0-180): 0.87

Spacing Criteria (90-270): 0.88

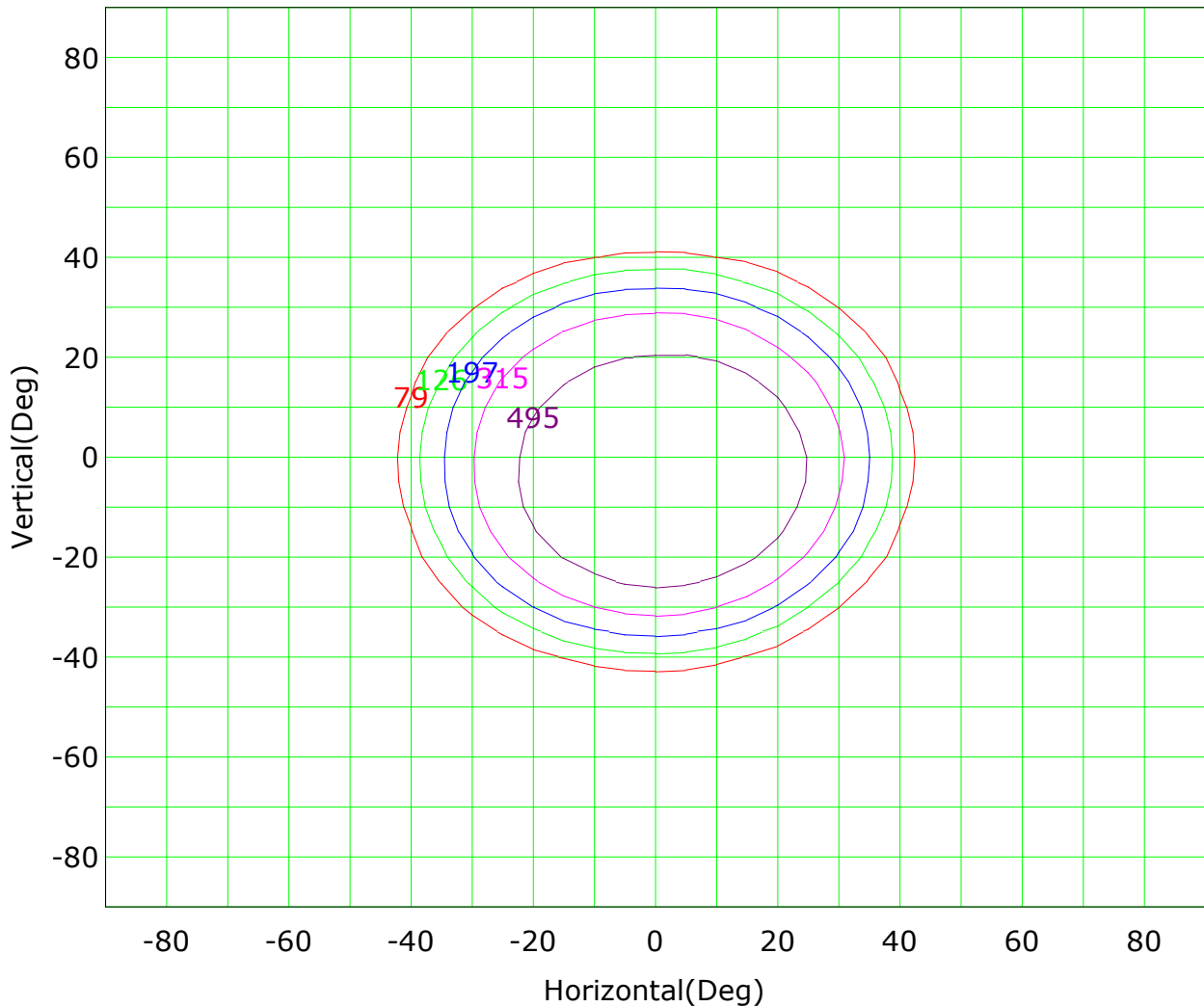
Spacing Criteria (Diagonal): 0.84



C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: Brilliance.led.llc

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1600L  
Distance: 8.549 m  
Humidity:  
Inspector:

## Isocandela (rectangle)



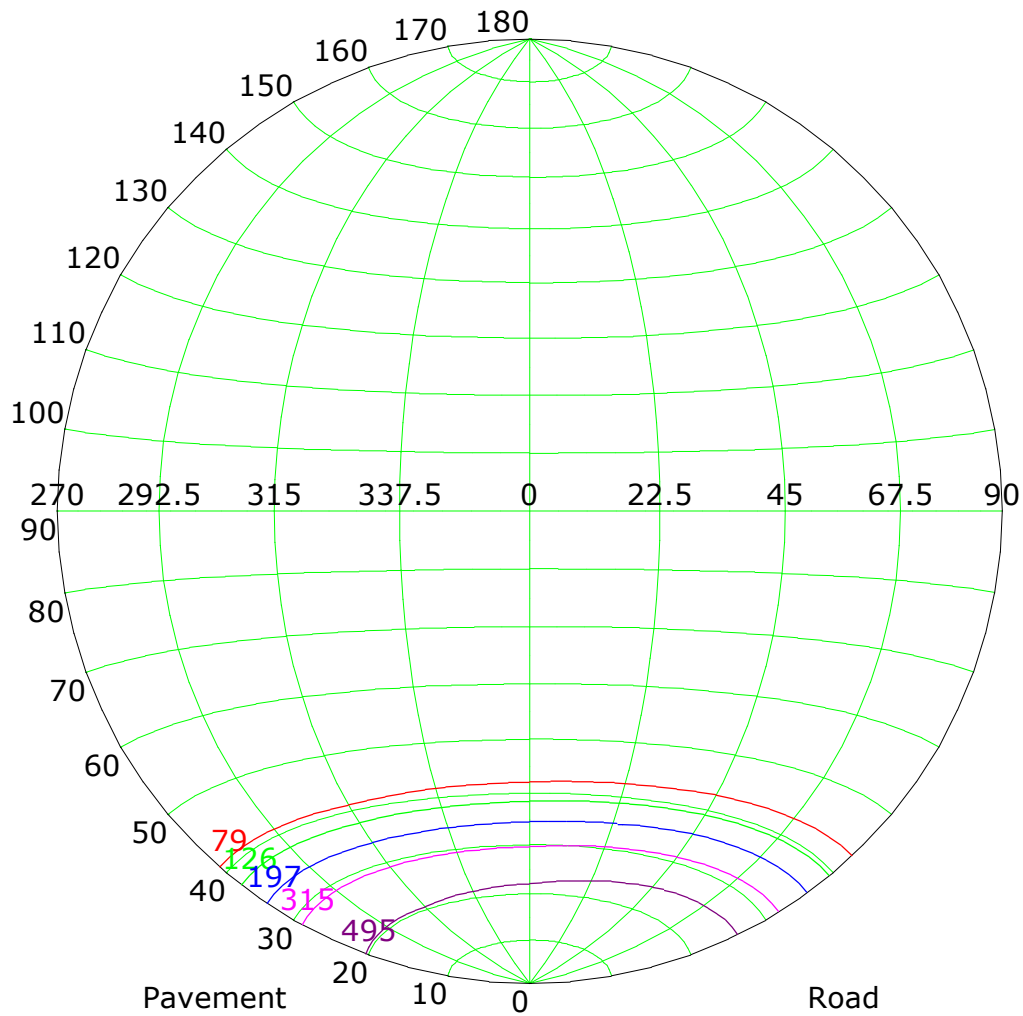
Imax (100%): 786 cd

( 10%):	79 cd	( 16%):	126 cd
( 25%):	197 cd	( 40%):	315 cd
( 63%):	495 cd	(100%):	786 cd

C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: Brilliance.led.IIc

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1600L  
Distance: 8.549 m  
Humidity:  
Inspector:

## Isocandela (sphere)



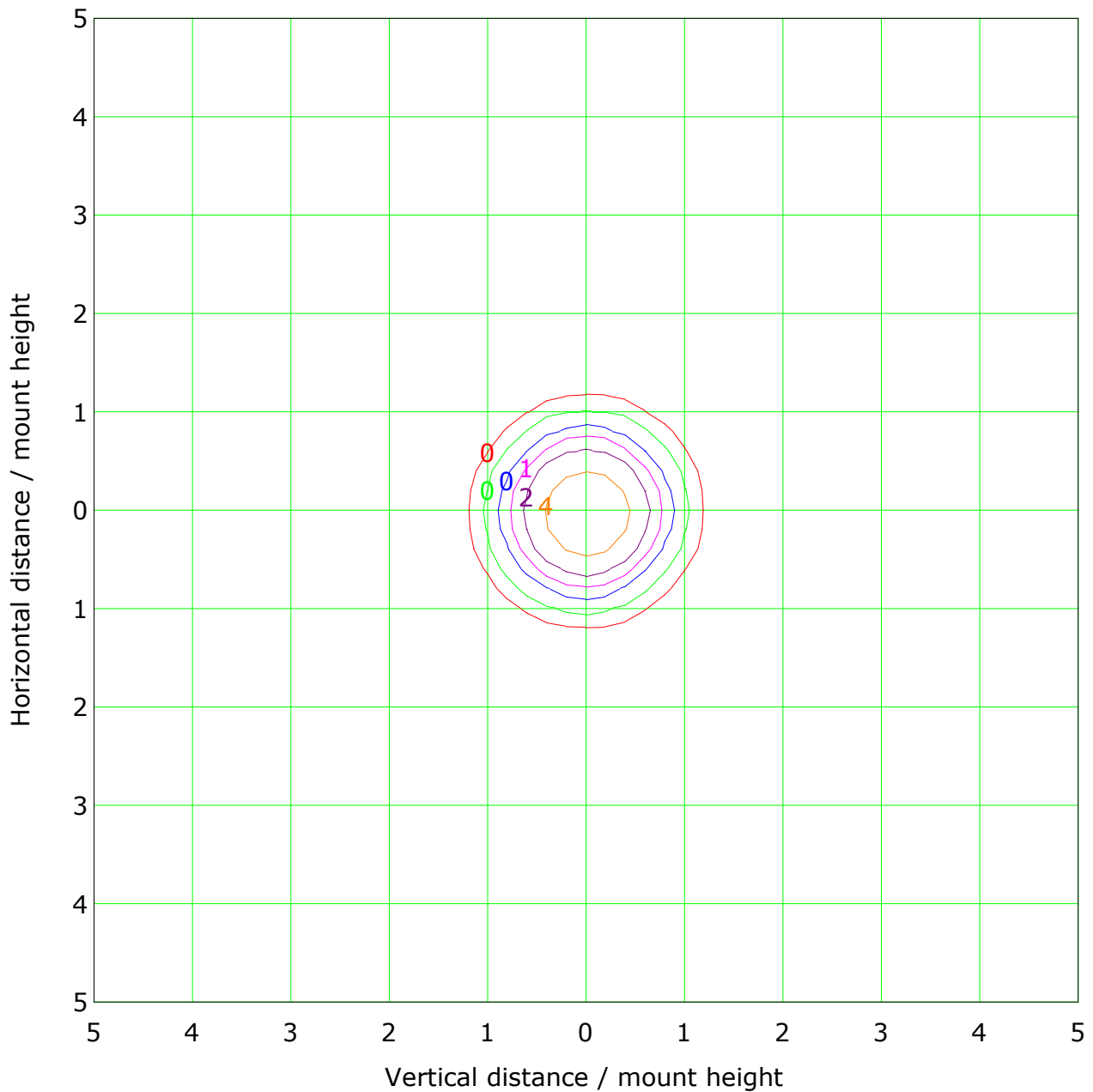
Imax (100%): 786 cd

( 10%): 79 cd	( 16%): 126 cd
( 25%): 197 cd	( 40%): 315 cd
( 63%): 495 cd	(100%): 786 cd

C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: Brilliance.led.llc

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1600L  
Distance: 8.549 m  
Humidity:  
Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 7.8 lx

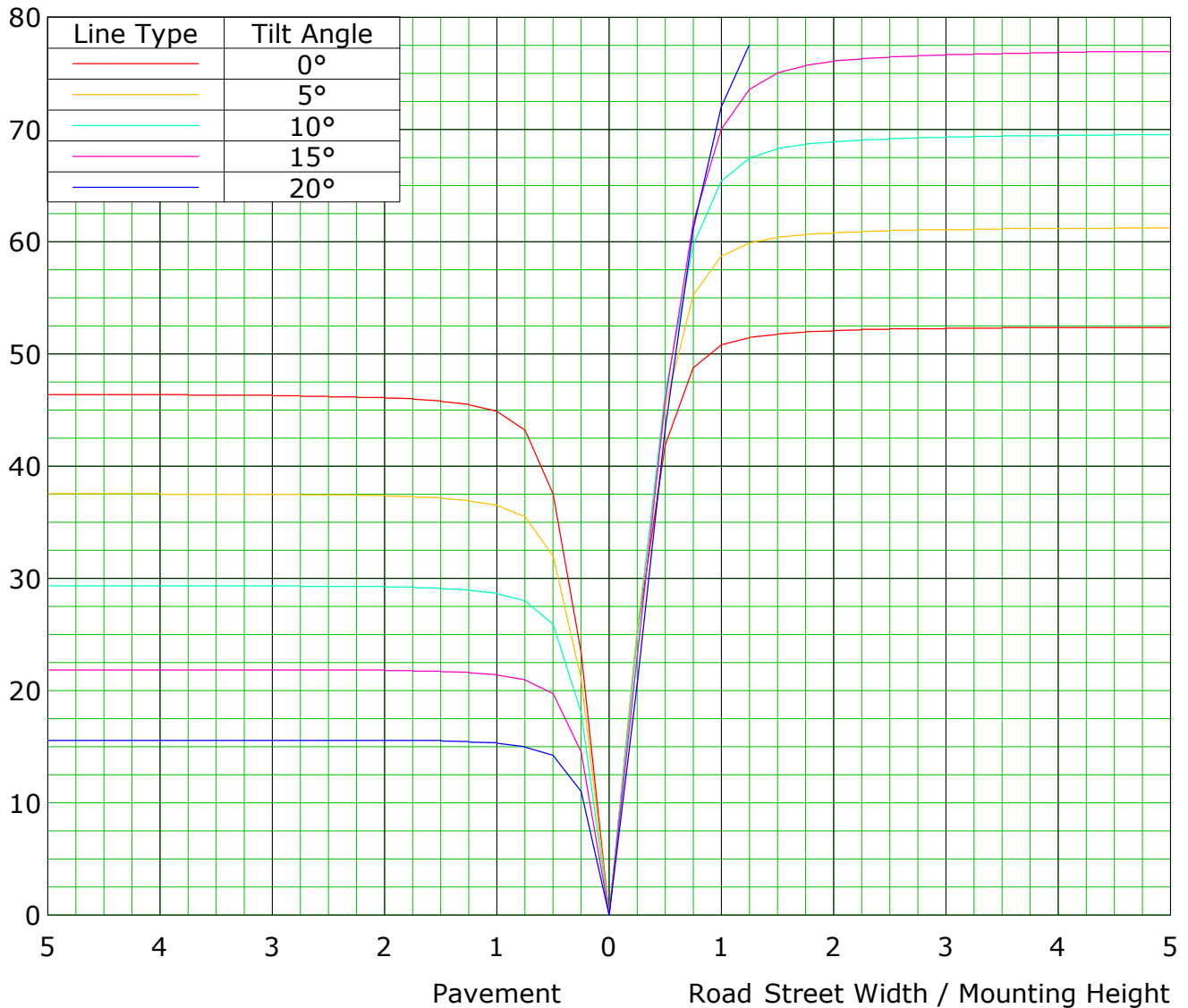
( 1%): 0.1 lx	( 2%): 0.2 lx
( 5%): 0.4 lx	( 10%): 0.8 lx
( 20%): 1.6 lx	( 50%): 3.9 lx
(100%): 7.8 lx	

C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: Brilliance.led.IIc

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1600L  
Distance: 8.549 m  
Humidity:  
Inspector:

## Roadway CU Curve

Efficiency(%)



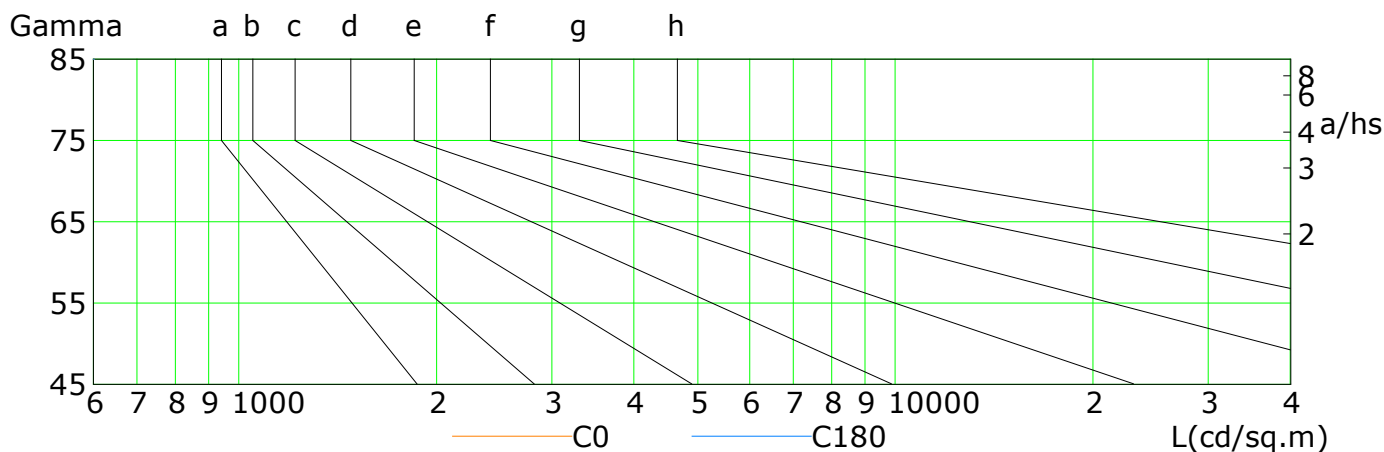
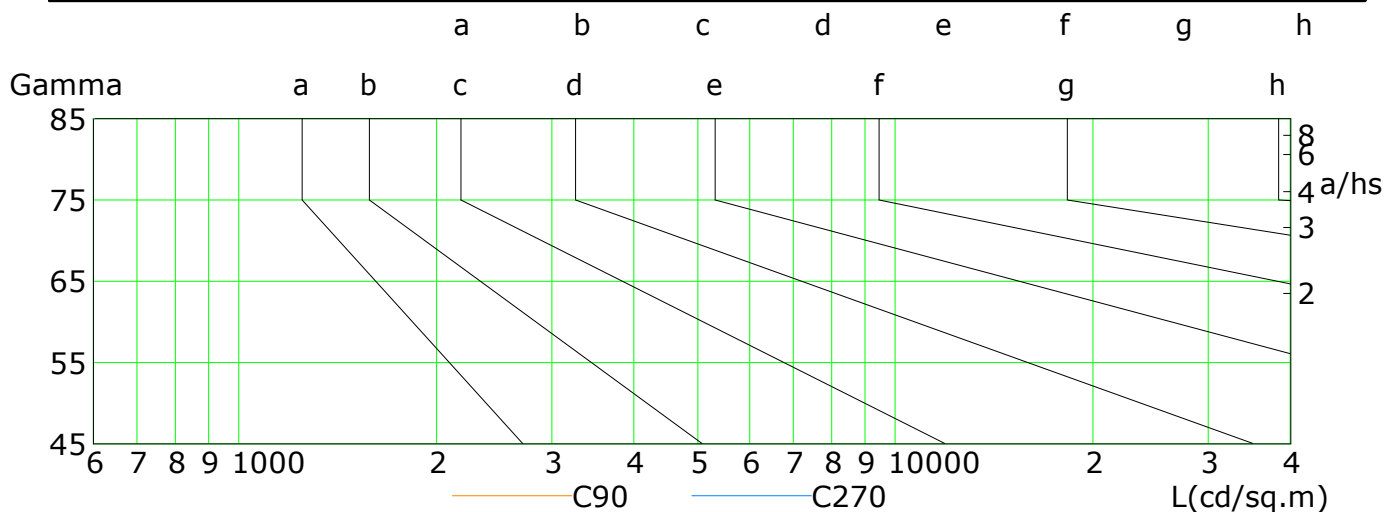
C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: Brilliance.led.llc

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1600L  
Distance: 8.549 m  
Humidity:  
Inspector:



## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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

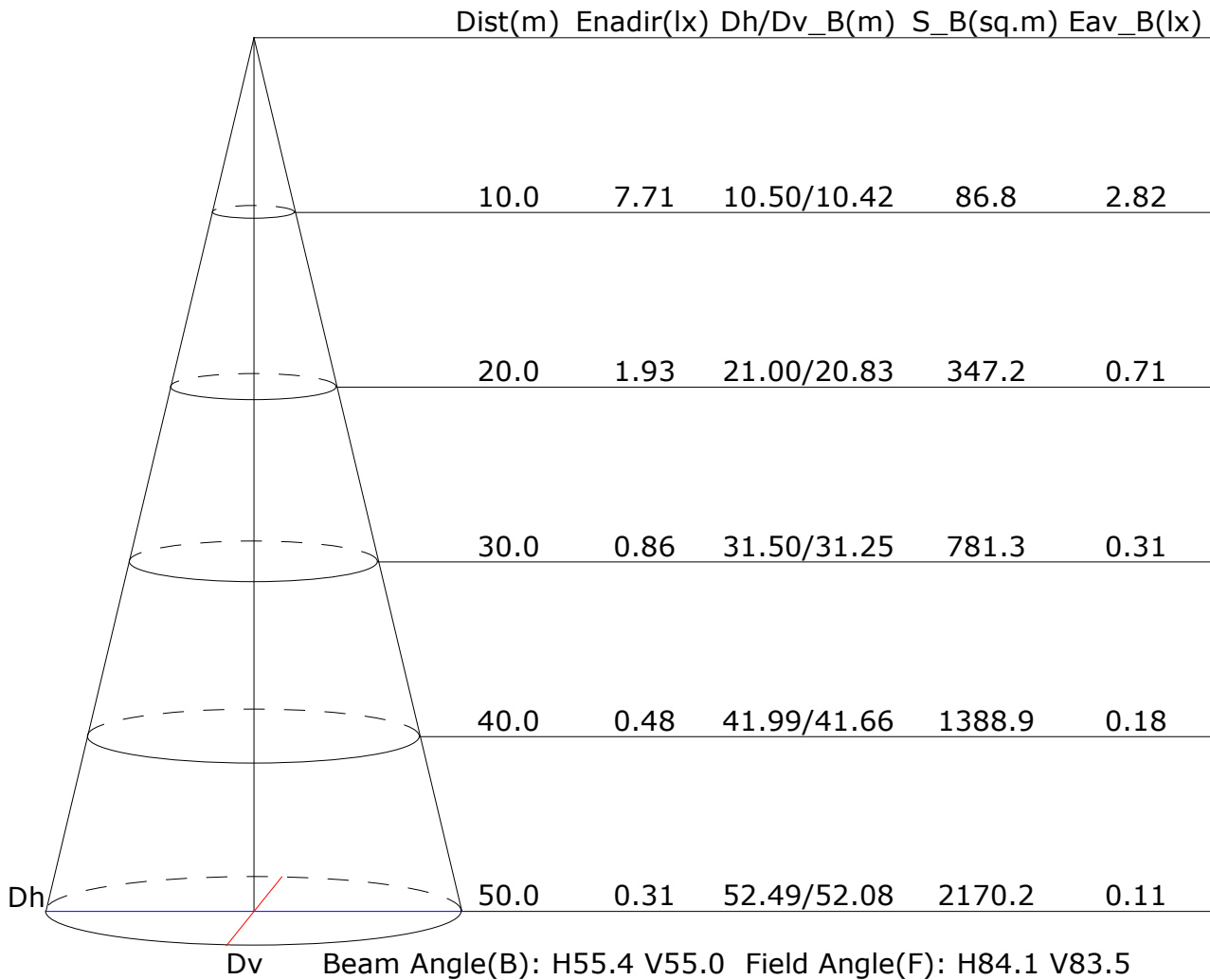


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	51	27	17	11	8	5	3	1	0
C90	57	30	18	12	8	5	3	1	0
C180	53	29	19	12	9	5	3	1	0
C270	45	26	17	12	8	5	3	1	0

C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: Brilliance.led.Ilc

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1600L  
Distance: 8.549 m  
Humidity:  
Inspector:

## Illuminance at a Distance



C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: Brilliance.led.Ilc

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1600L  
Distance: 8.549 m  
Humidity:  
Inspector: