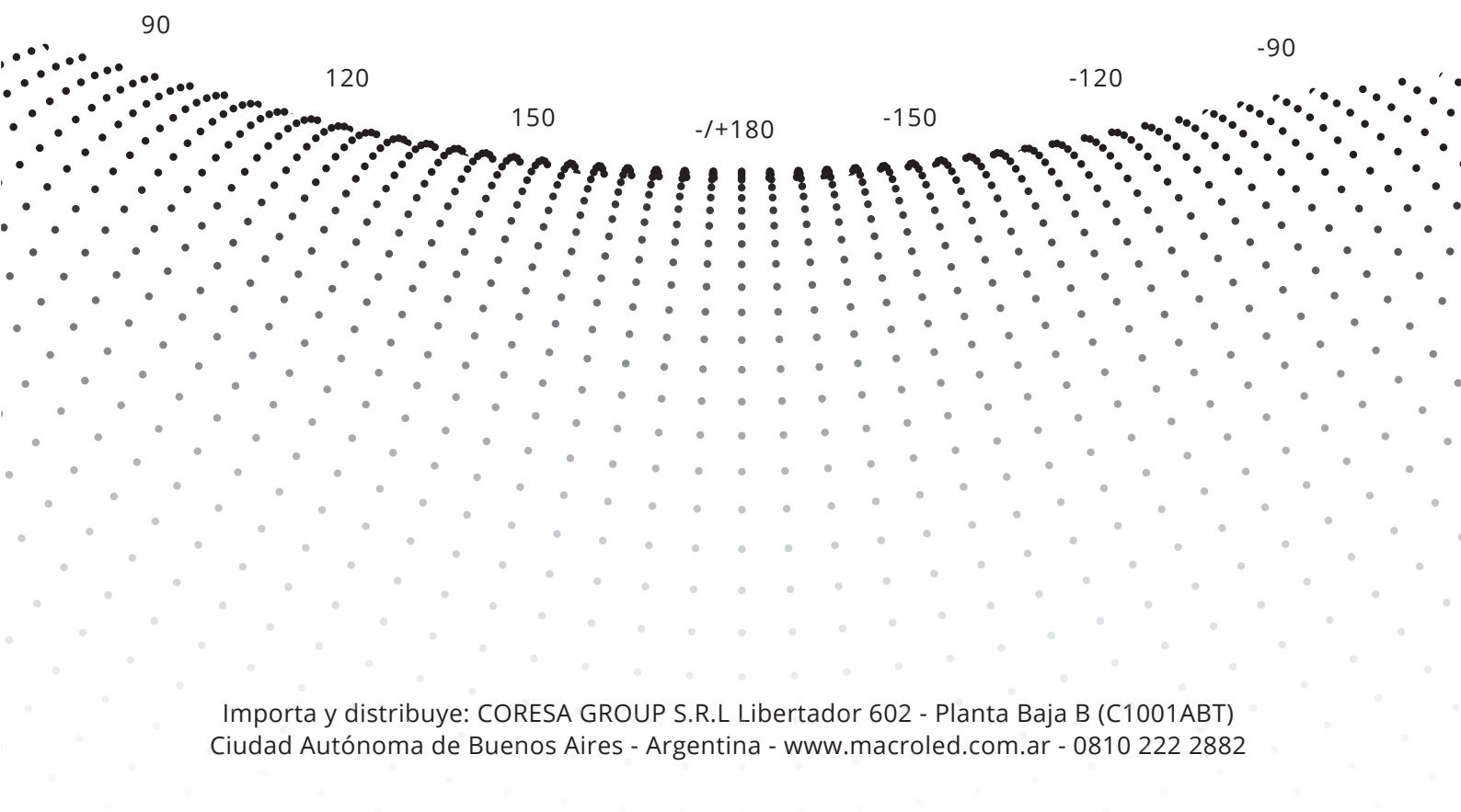


# MACROLED®

## INFORME LUMINOTÉCNICO TUBO LED NANO 18W



Importa y distribuye: CORESA GROUP S.R.L Libertador 602 - Planta Baja B (C1001ABT)  
Ciudad Autónoma de Buenos Aires - Argentina - [www.macroled.com.ar](http://www.macroled.com.ar) - 0810 222 2882

Report No.:

Test Time: 2016-12-13 11:06

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: 灯管

Voltage: 219.2 V

Power: 17.20 W

Luminaire Description: 18W

Current: 0.165 A

Power Factor: 0.474

## Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 1638.3 lm

Downward Ratio: 80%

Field Angle: H157.8 V303.4

Luminaire Efficacy Rating (LER): 95

Max. Intensity: 347.37 cd

Total Rated Lamp Lumens: 1638.3 lm

Efficiency: 100%

Upward Ratio: 20%

Beam Angle: H107.8 V181.4

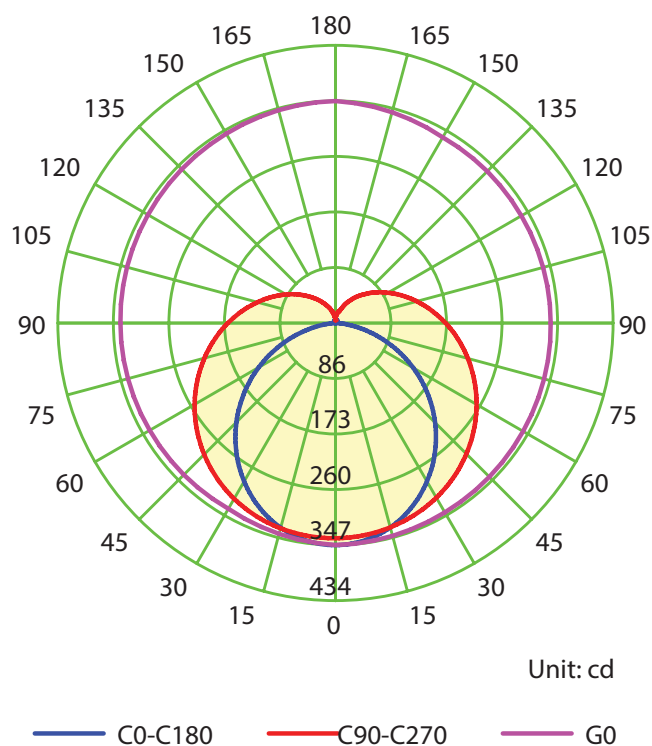
Central Intensity: 347.37 cd

Pos of Max. Intensity: H0 V0

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

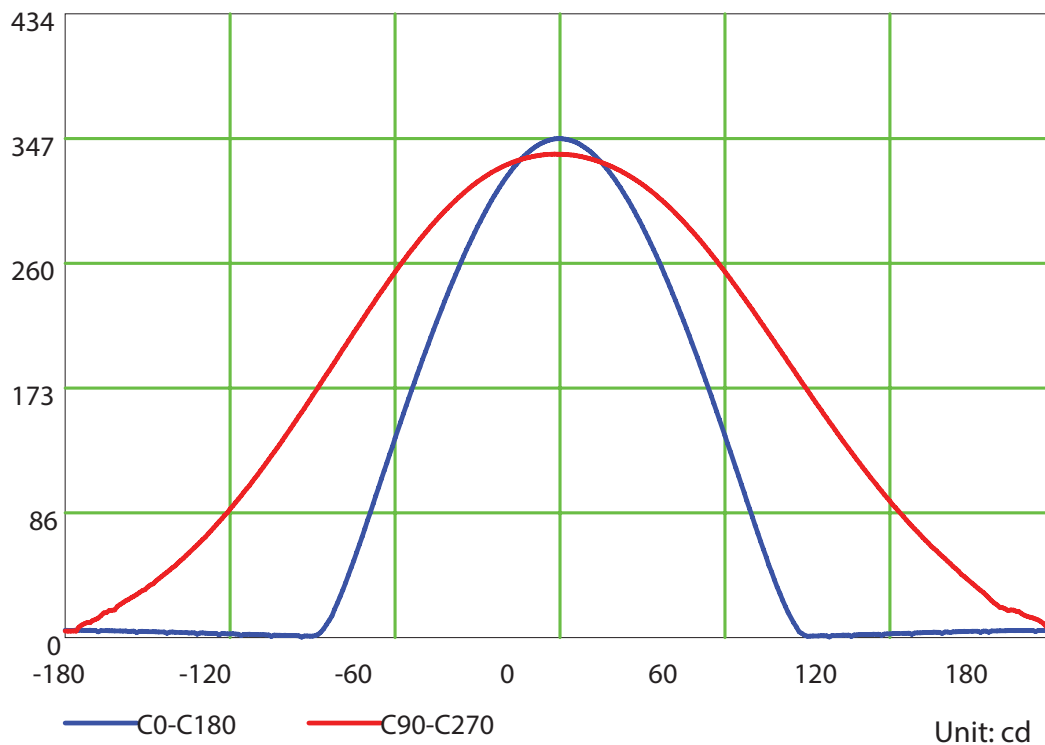
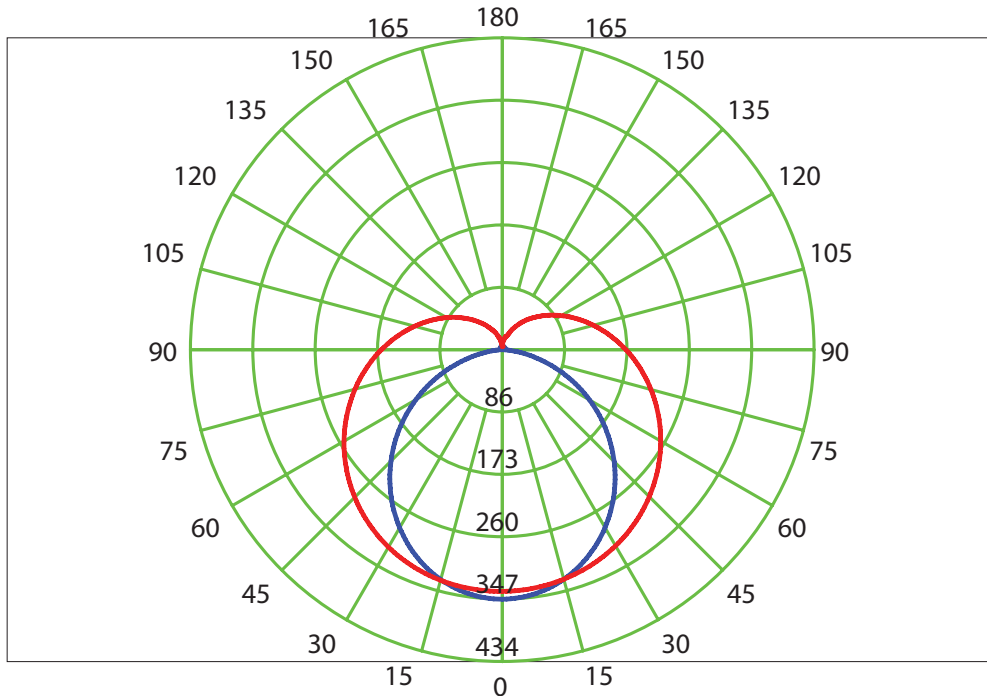
Test Device: GPM-1600L

Distance: 8.155 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



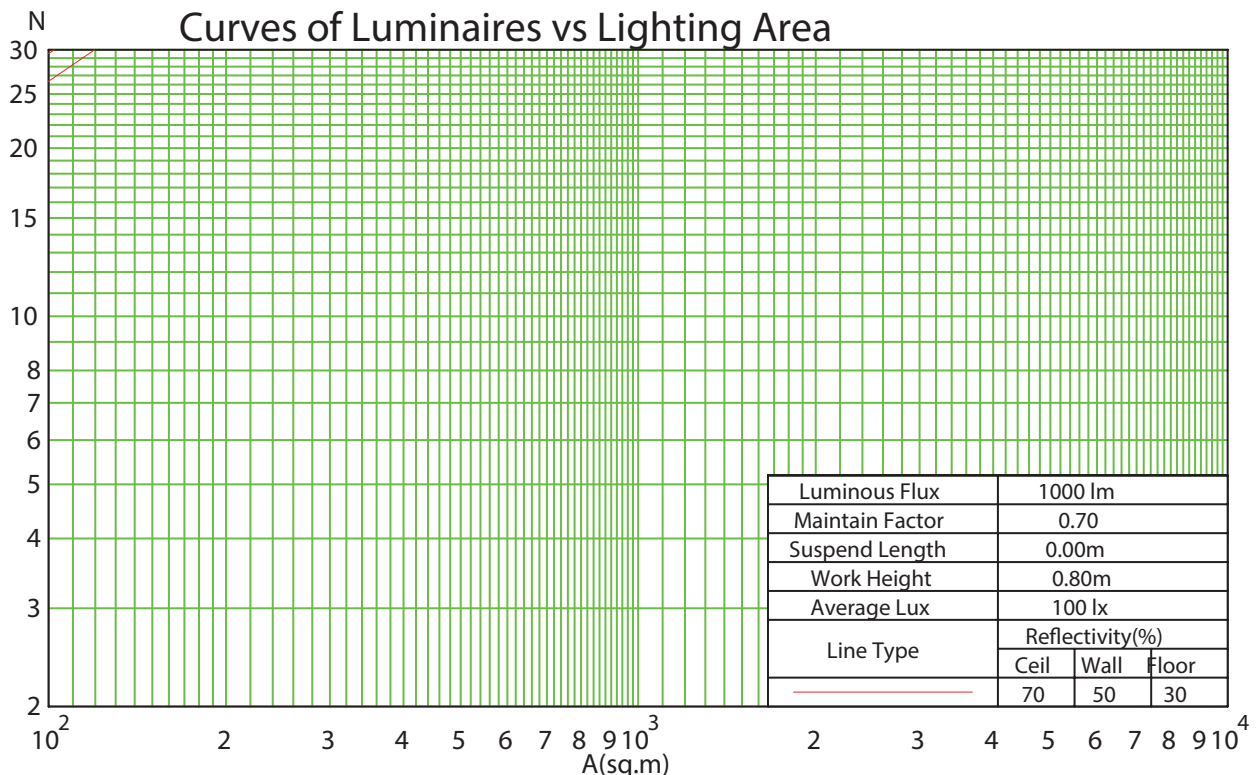
C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.155 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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80			
1	101	95	90	85	96	91	86	81	83	79	75	75	72	69	68	66	64	60			
2	91	81	73	67	86	77	70	64	71	65	60	64	59	55	58	54	51	48			
3	82	70	61	54	78	67	59	52	61	54	49	56	50	45	51	46	42	39			
4	75	62	52	45	71	59	50	44	54	47	41	49	43	38	45	40	35	32			
5	68	55	45	38	65	52	44	37	48	40	35	44	37	33	40	35	30	28			
6	63	49	40	33	60	47	38	32	43	36	30	39	33	28	36	31	26	24			
7	58	44	35	29	55	42	34	28	39	32	26	36	29	25	33	27	23	21			
8	54	40	31	25	51	39	30	25	36	28	23	33	27	22	30	25	21	18			
9	50	37	28	23	48	35	27	22	33	26	21	30	24	20	28	22	19	17			
10	47	34	26	20	45	32	25	20	30	23	19	28	22	18	26	21	17	15			

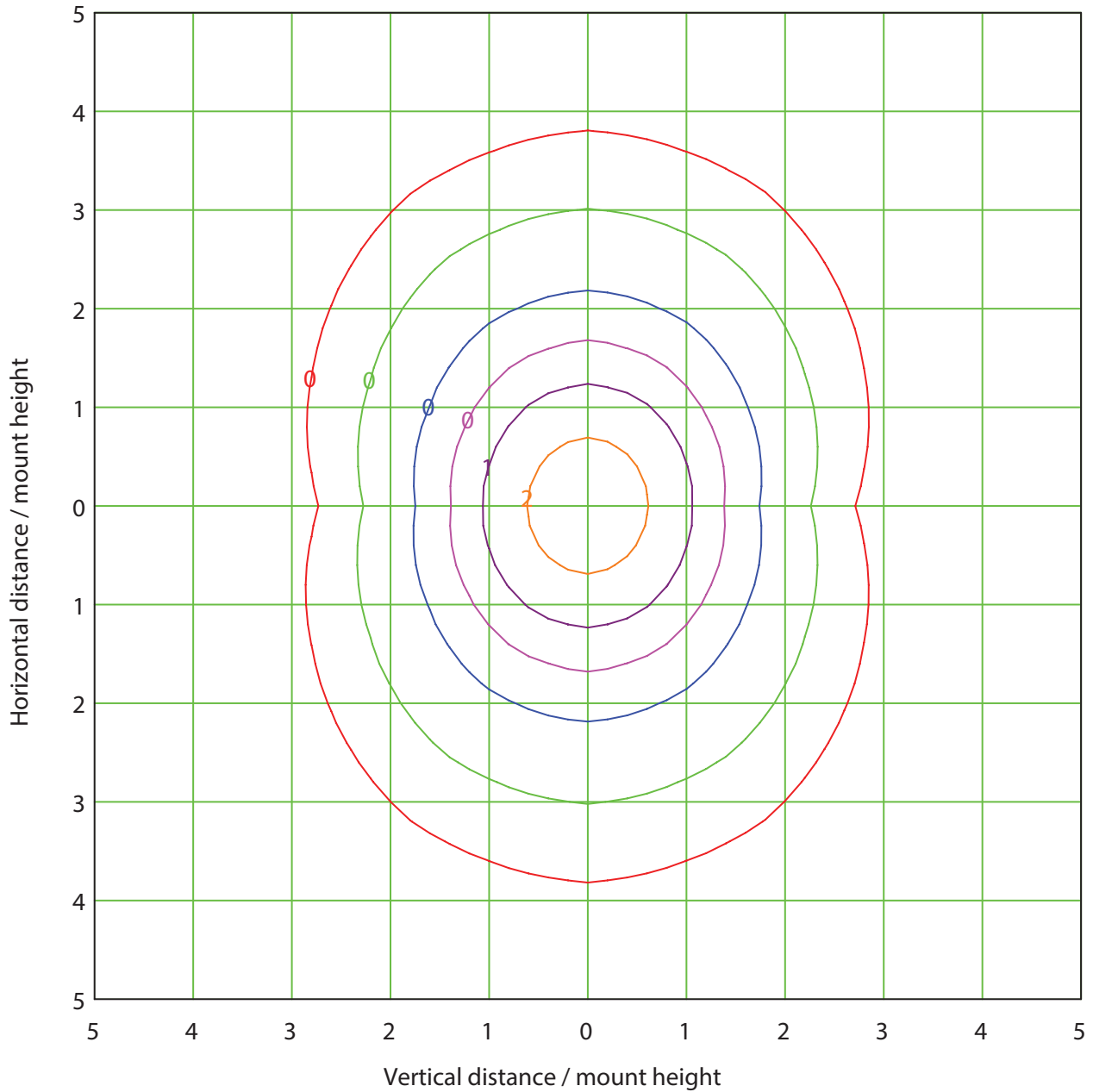
Spacing Criteria (0-180): 1.23  
 Spacing Criteria (90-270): 1.41  
 Spacing Criteria (Diagonal): 1.45



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-1600L  
 Distance: 8.155 m  
 Humidity:  
 Inspector:

## IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 3.5 lx

— ( 1%): 0.0 lx	— ( 2%): 0.1 lx
— ( 5%): 0.2 lx	— (10%): 0.3 lx
— (20%): 0.7 lx	— (50%): 1.7 lx
— (100%): 3.5 lx	

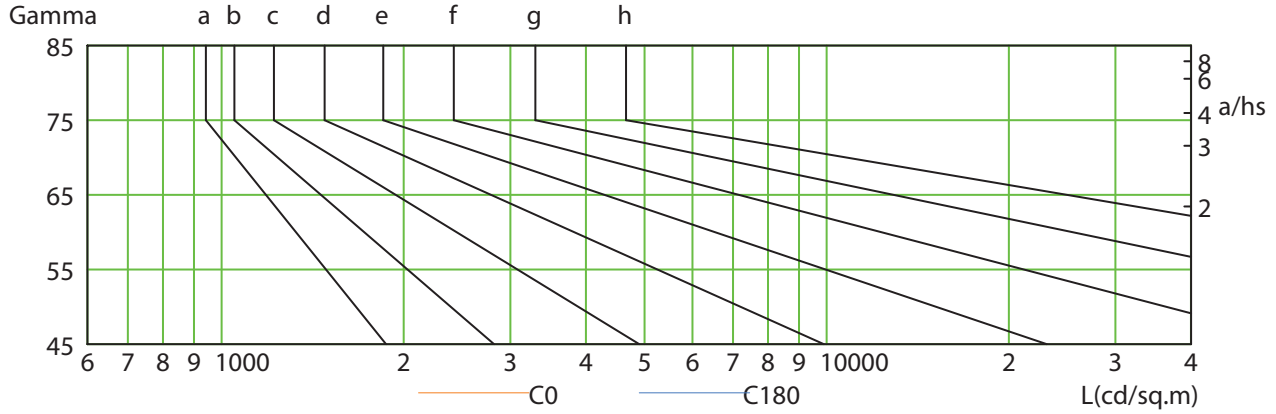
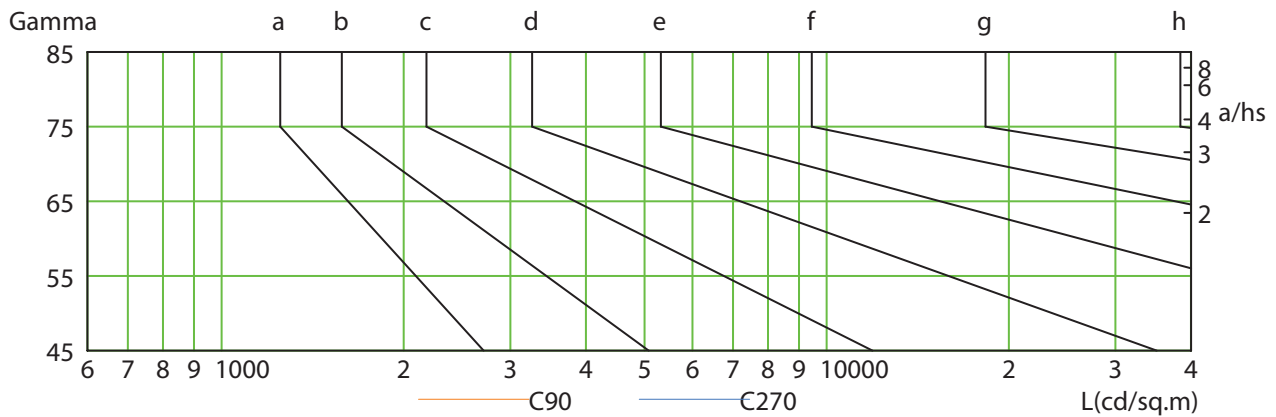
C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.155 m  
 Humidity:  
 Inspector:

## Lum Limit Curve

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

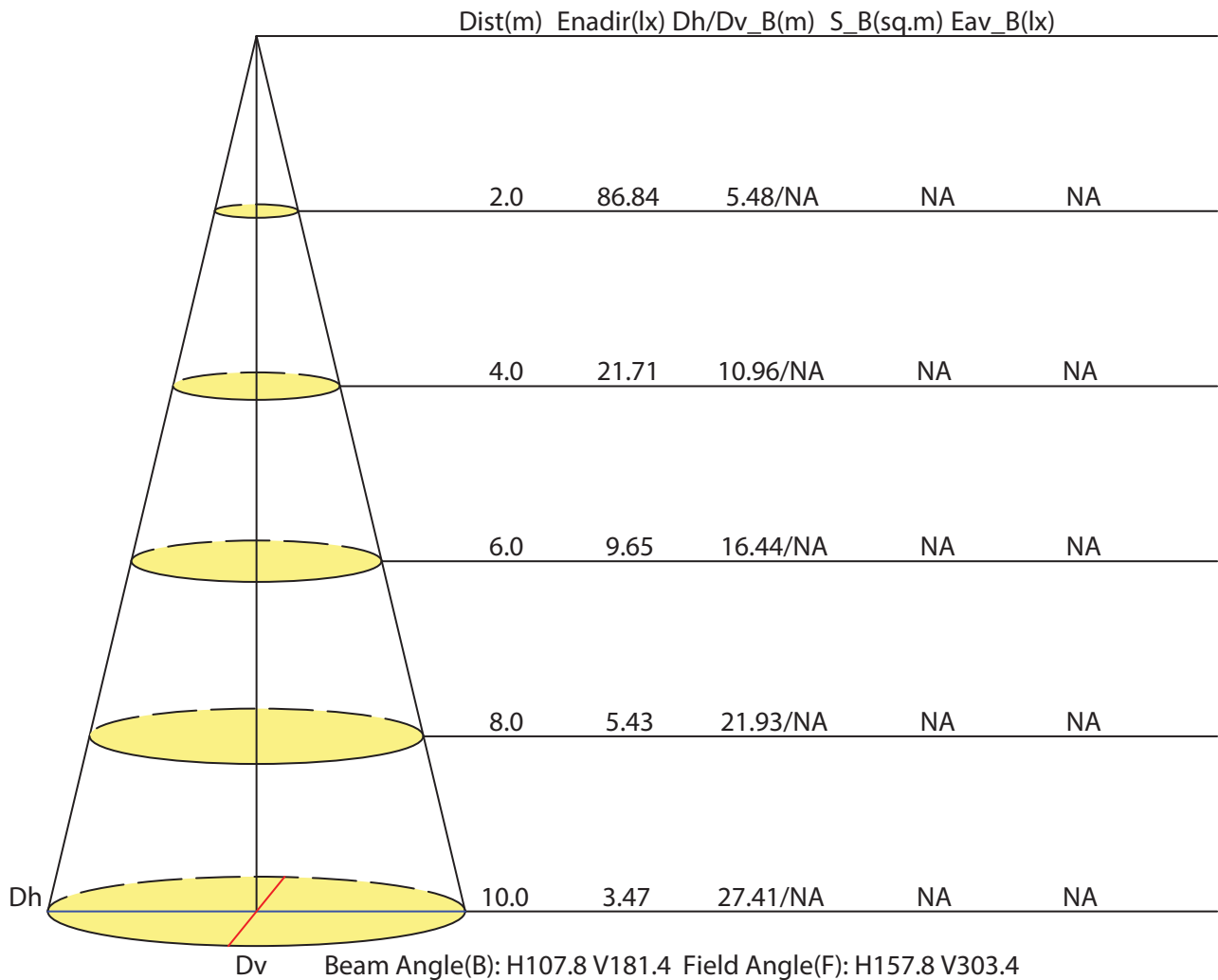


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	220	195	168	141	112	84	56	31	10
C90	290	279	267	255	242	228	214	200	186
C180	219	194	167	139	110	82	54	29	9
C270	291	280	267	255	241	227	212	198	183

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-1600L  
 Distance: 8.155 m  
 Humidity:  
 Inspector:

## Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

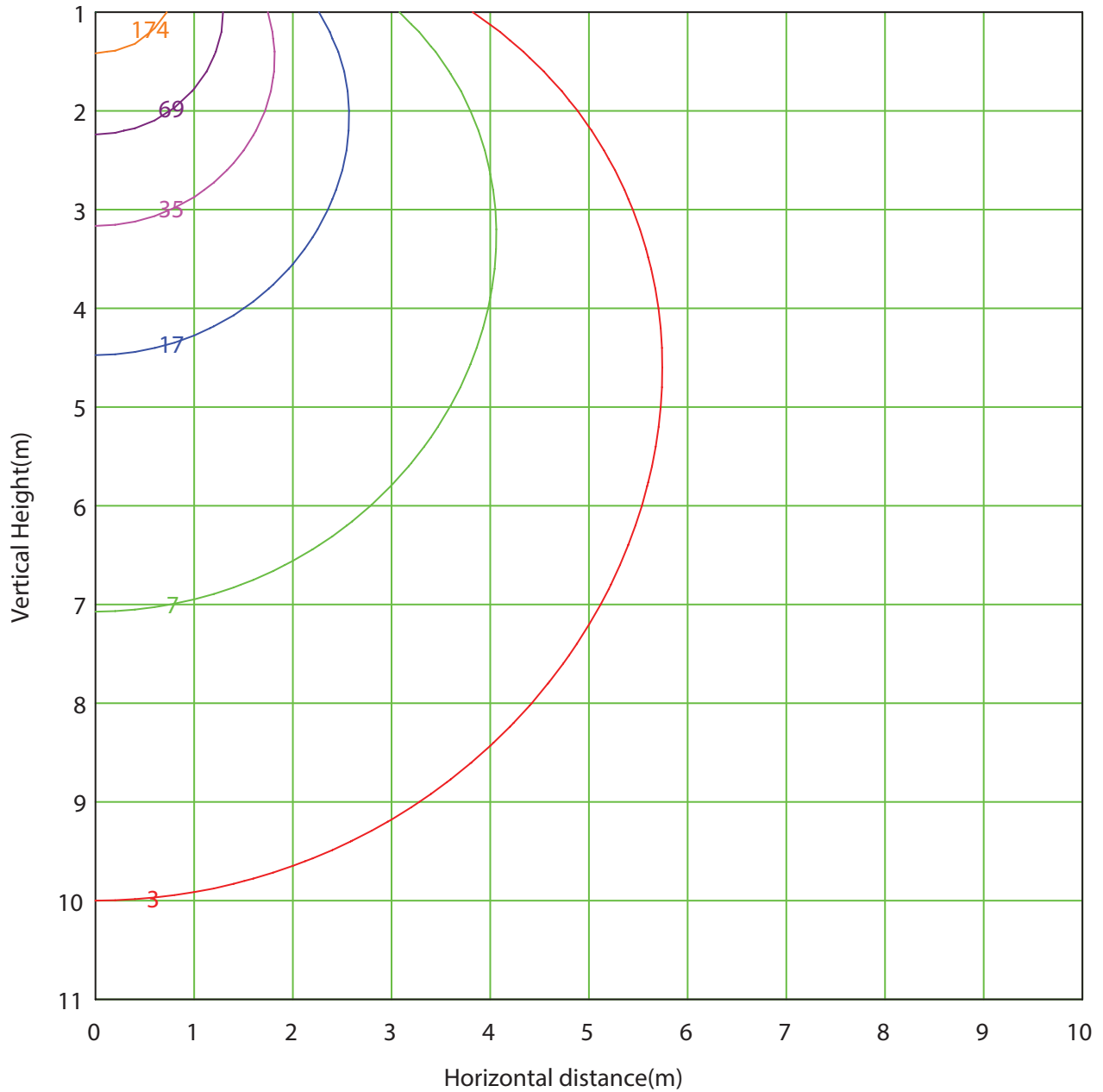
Test Device: GPM-1600L

Distance: 8.155 m

Humidity:

Inspector:

## Vertical IsoLux Plot



Lowest(m): 1.0m		Highest(m): 11.0m		Max Lux: 347.4 lx	
— ( 1%):	3.5 lx	— ( 2%):	6.9 lx	— ( 10%):	34.7 lx
— ( 5%):	17.4 lx	— ( 20%):	69.5 lx	— ( 50%):	173.7 lx
— ( 100%):	347.4 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-1600L  
 Distance: 8.155 m  
 Humidity:  
 Inspector: