

Report No.:

Test Time: 2022/7/25 09:37

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): 578

Luminous Height (mm):

Current: 0.600 A

Power Factor: 0.944

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 285

Voltage: 277.0 V

Power: 156.77 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 22513.7 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H146.8,H90

Vertical Diffuse Angle(10%,50%): V136,V97.1

Luminaire Efficacy Rating (LER): 143.66

Max. Intensity: 9927.5 cd

S/MH(C0/C180): 1.27

Total Rated Lamp Lumens: 22513.7 lm

Efficiency: 100%

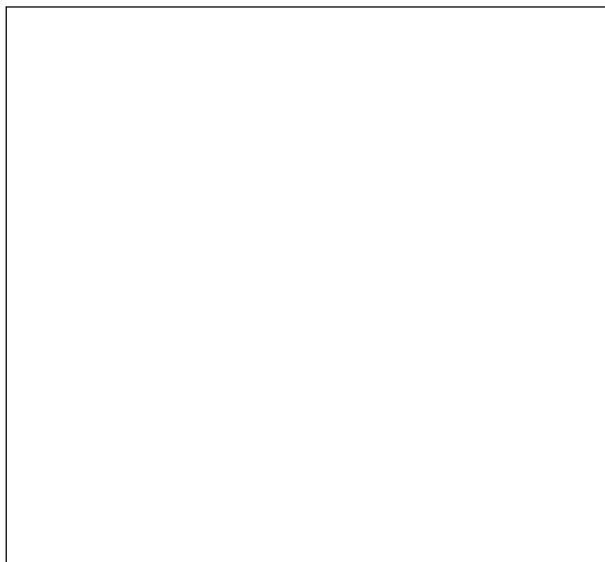
Upward Ratio: 1%

C0r0 Intensity: 9924.94 cd

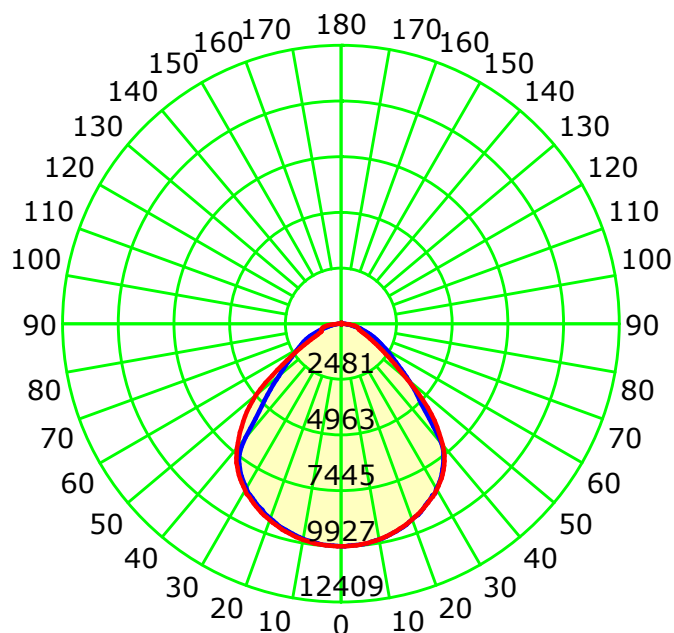
Pos of Max. Intensity: H292.5 V1

S/MH(C90/C270): 1.28

Picture Of Luminaire



Luminous Intensity Distribution Curve



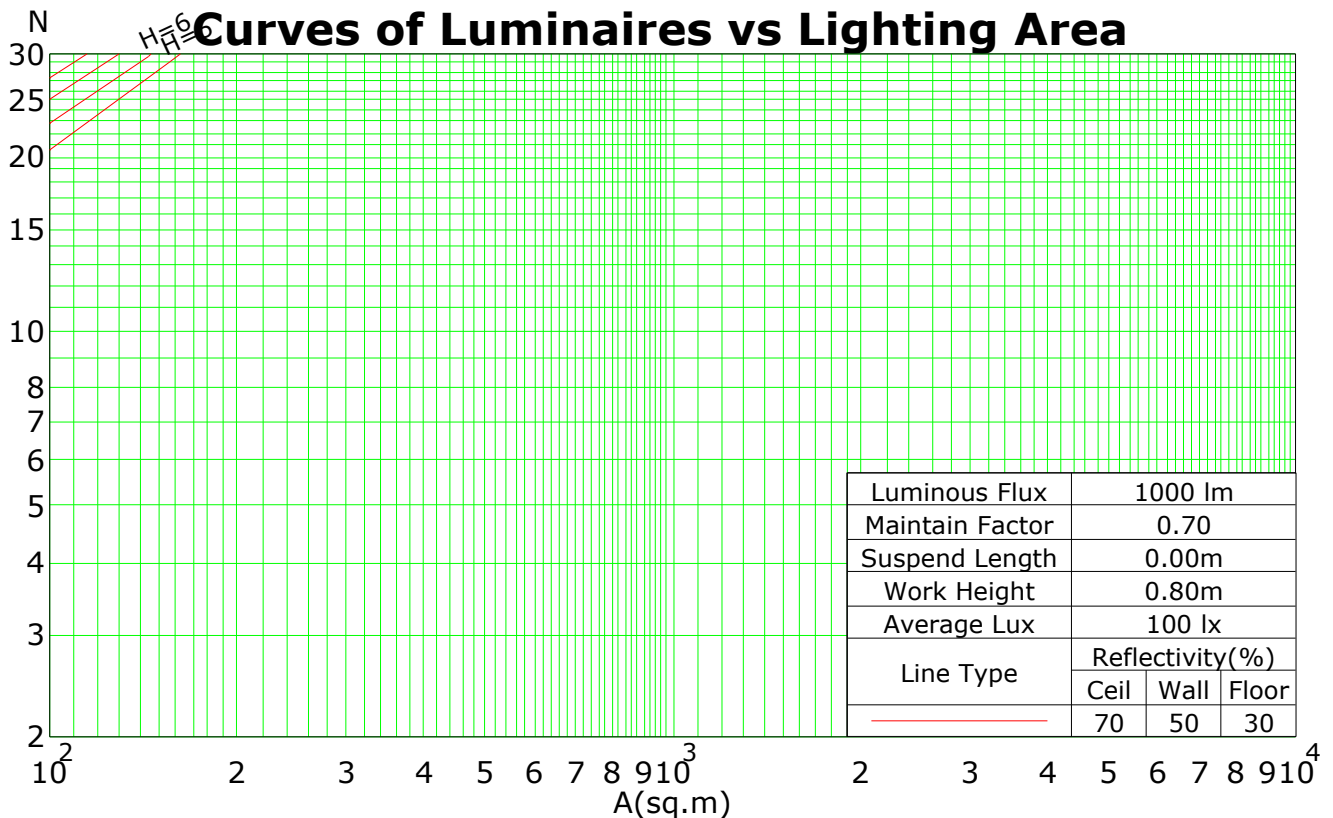
## Coefficients Of Utilization - Zonal Cavity Method

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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	0.99
1	1.10	1.06	1.02	0.99	1.07	1.03	1.00	0.97	0.99	0.96	0.94	0.95	0.93	0.91	0.92	0.90	0.88	0.86
2	1.01	0.94	0.88	0.83	0.99	0.92	0.87	0.82	0.88	0.84	0.80	0.85	0.81	0.78	0.82	0.79	0.76	0.74
3	0.93	0.84	0.77	0.71	0.91	0.82	0.76	0.70	0.79	0.74	0.69	0.77	0.72	0.68	0.74	0.70	0.66	0.64
4	0.86	0.75	0.67	0.61	0.84	0.74	0.67	0.61	0.72	0.65	0.60	0.69	0.64	0.59	0.67	0.62	0.58	0.56
5	0.80	0.68	0.60	0.54	0.78	0.67	0.59	0.53	0.65	0.58	0.53	0.63	0.57	0.52	0.61	0.56	0.52	0.50
6	0.74	0.62	0.54	0.48	0.72	0.61	0.53	0.47	0.59	0.52	0.47	0.57	0.51	0.47	0.56	0.50	0.46	0.44
7	0.69	0.56	0.48	0.43	0.67	0.56	0.48	0.42	0.54	0.47	0.42	0.53	0.46	0.42	0.51	0.46	0.41	0.40
8	0.64	0.52	0.44	0.38	0.63	0.51	0.44	0.38	0.50	0.43	0.38	0.49	0.42	0.38	0.47	0.42	0.37	0.36
9	0.60	0.48	0.40	0.35	0.59	0.47	0.40	0.35	0.46	0.39	0.34	0.45	0.39	0.34	0.44	0.38	0.34	0.32
10	0.57	0.44	0.37	0.32	0.55	0.44	0.36	0.32	0.43	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.31	0.30

Spacing Criteria (0-180): 1.27

Spacing Criteria (90-270): 1.28

Spacing Criteria (Diagonal): 1.30



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 25.1 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

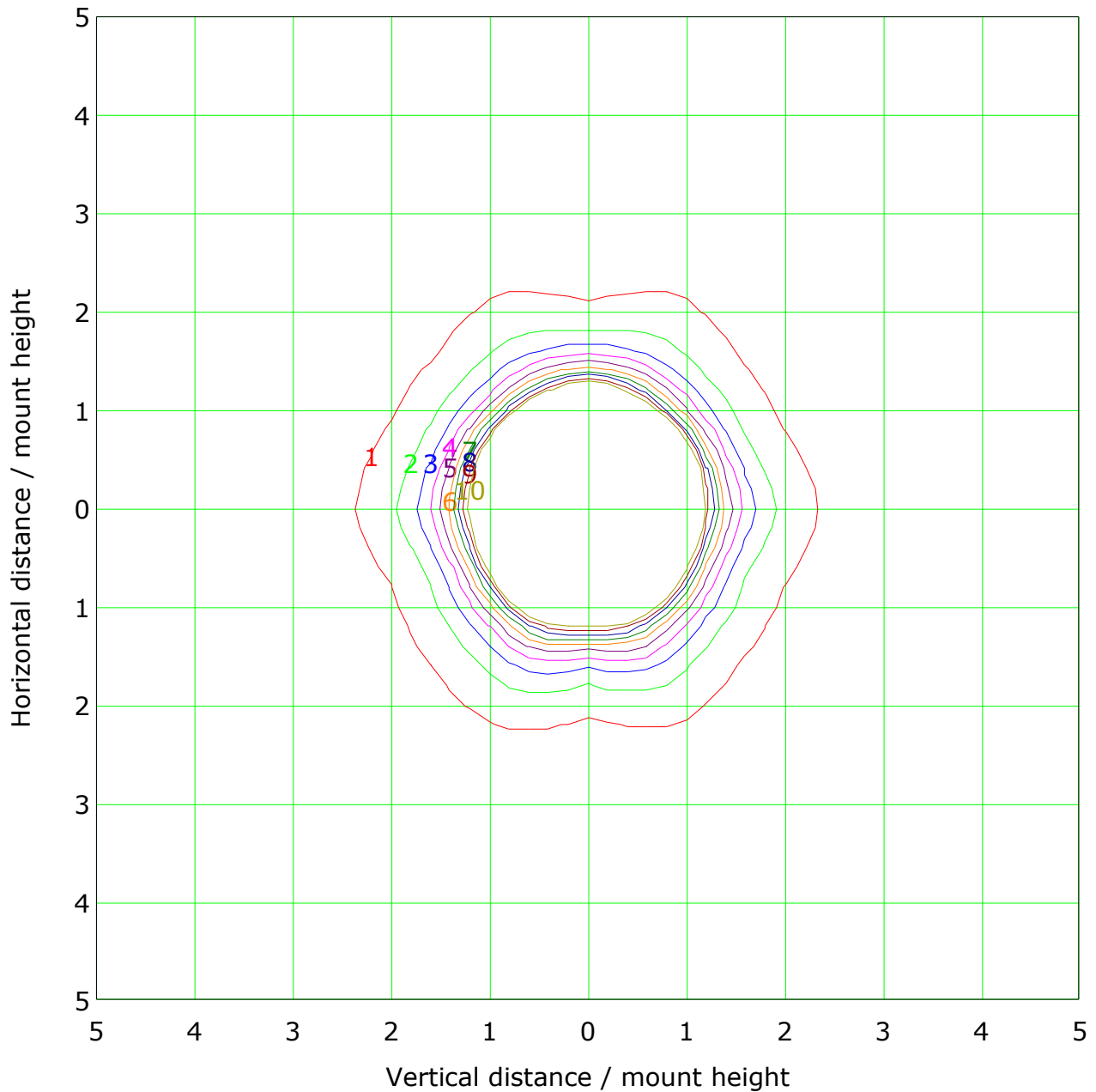
Test Device: GPM-3000

Distance: 14.140 m [K=1.0000]

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 99.2 lx	
( 1%): 1.0 lx	( 2%): 2.0 lx
( 3%): 3.0 lx	( 4%): 4.0 lx
( 5%): 5.0 lx	( 6%): 6.0 lx
( 7%): 6.9 lx	( 8%): 7.9 lx
( 9%): 8.9 lx	(10%): 9.9 lx

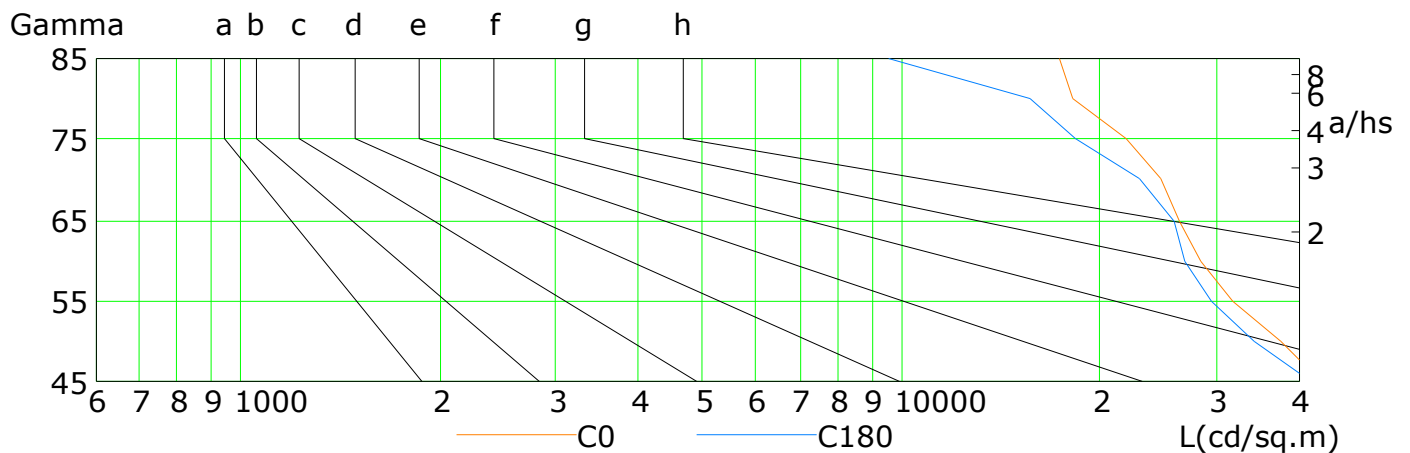
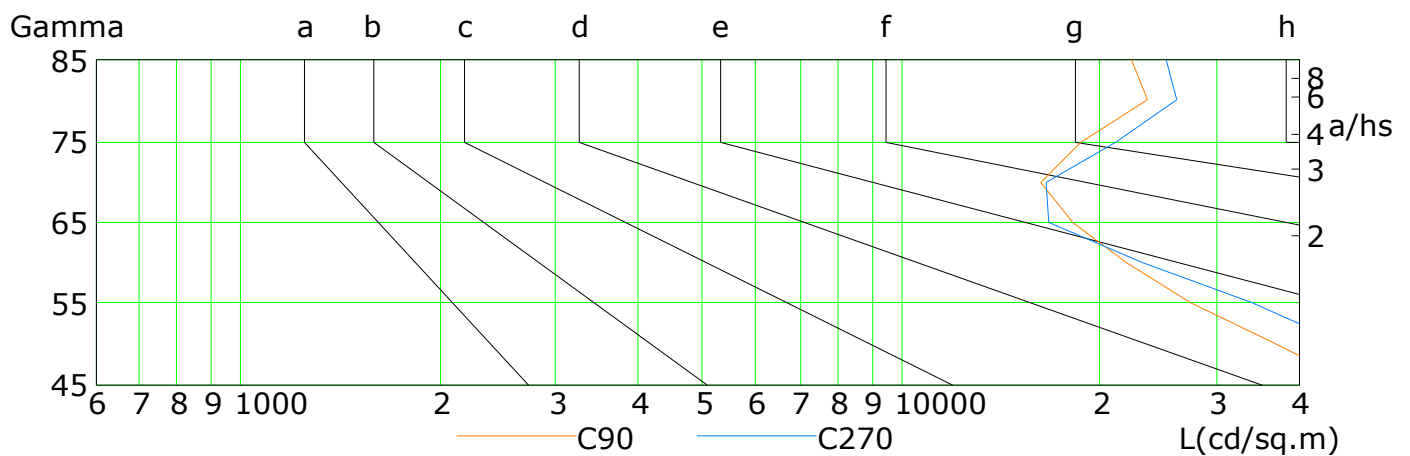
C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 25.1 'C  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-3000  
Distance: 14.140 m [K=1.0000]  
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

a b c d e f g h

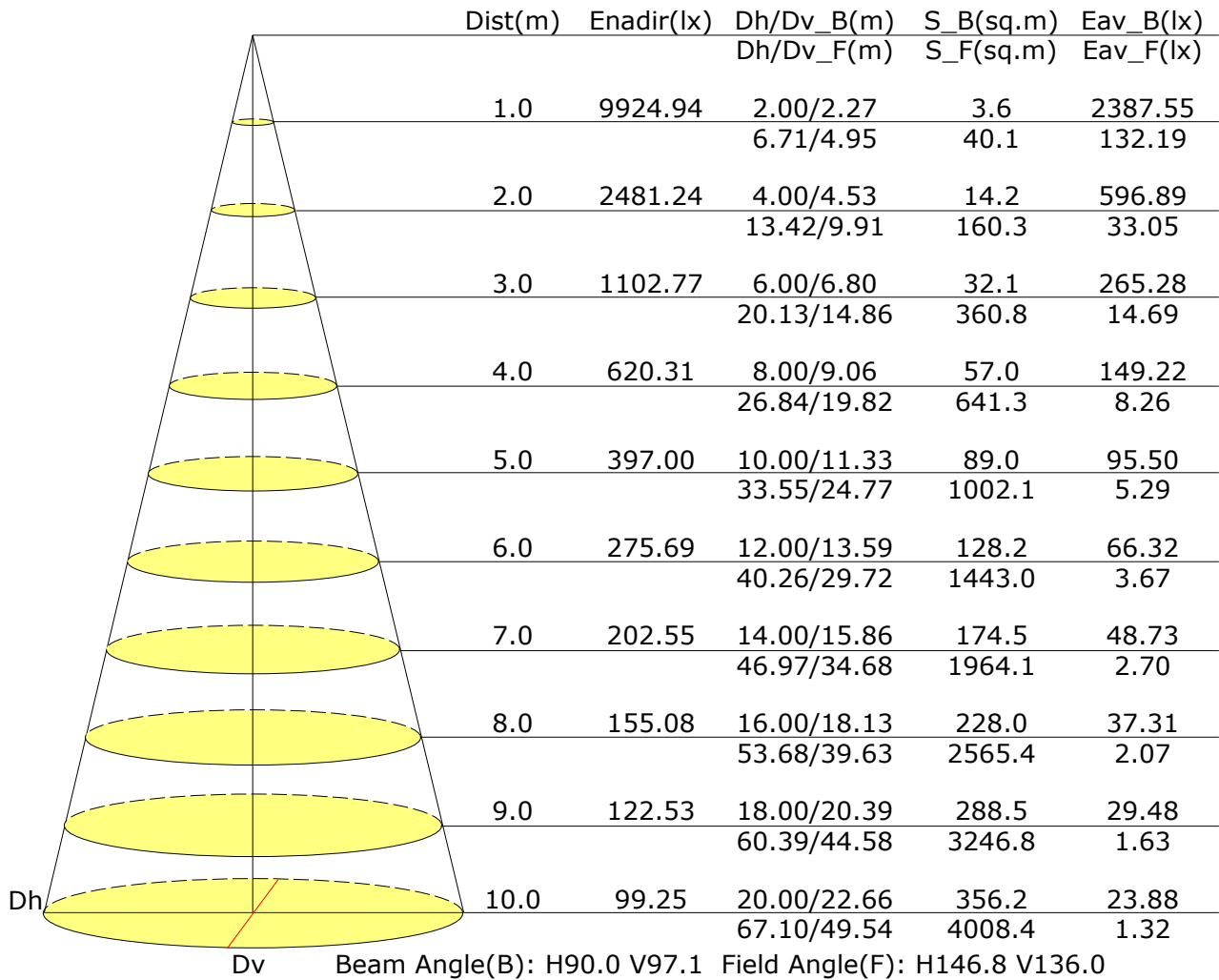


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	43560	37603	31824	28395	26261	24684	21822	18189	17365
C90	48846	36692	27358	21851	18144	16244	18774	23486	22331
C180	41506	34194	29575	26900	25893	23003	18381	15587	9563
C270	53003	46887	33893	23098	16725	16561	21004	26046	25122

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Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-3000  
Distance: 14.140 m [K=1.0000]  
Humidity:  
Inspector:

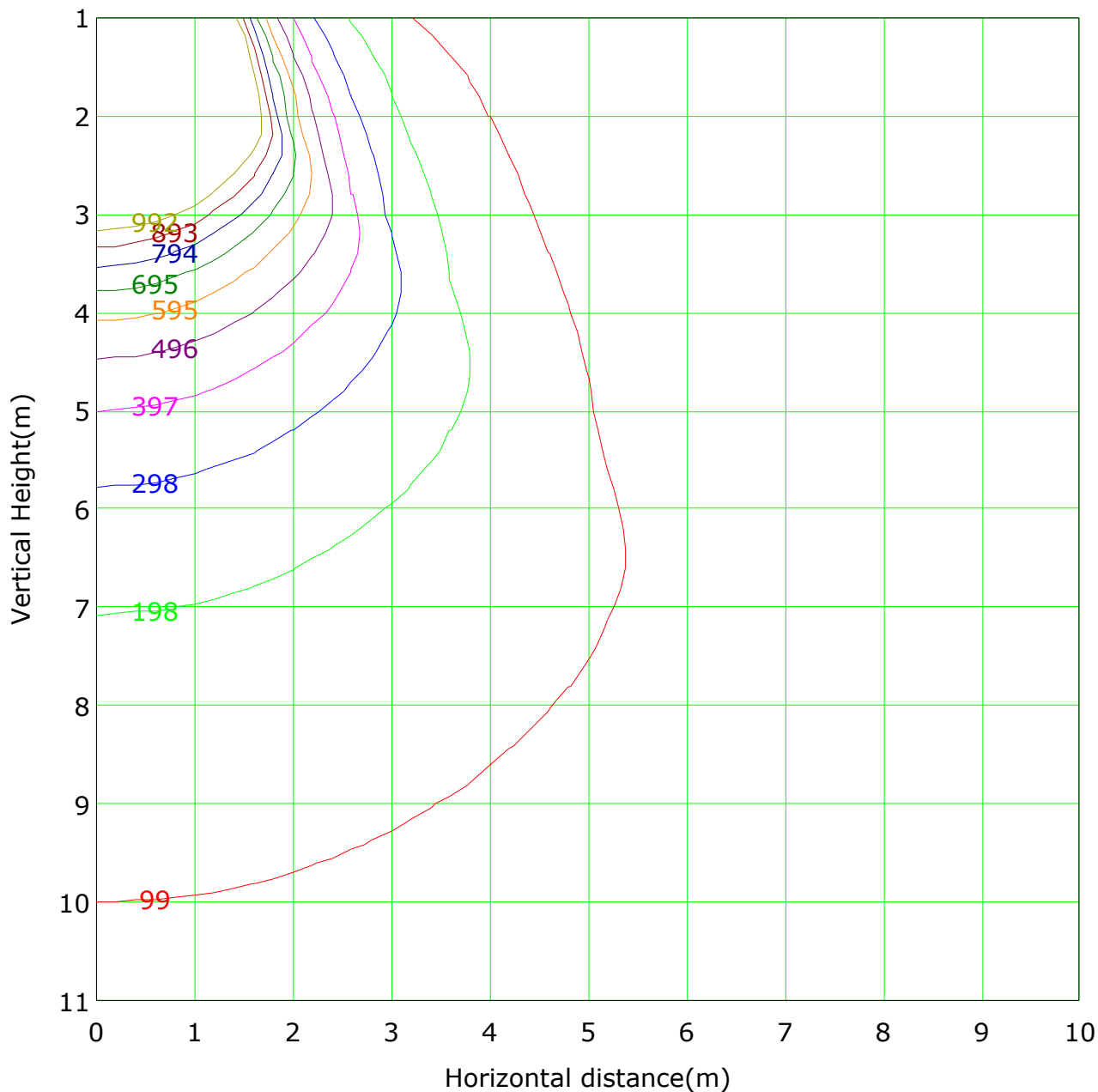
## Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 25.1 'C  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-3000  
Distance: 14.140 m [K=1.0000]  
Humidity:  
Inspector:

## Vertical IsoLux Plot



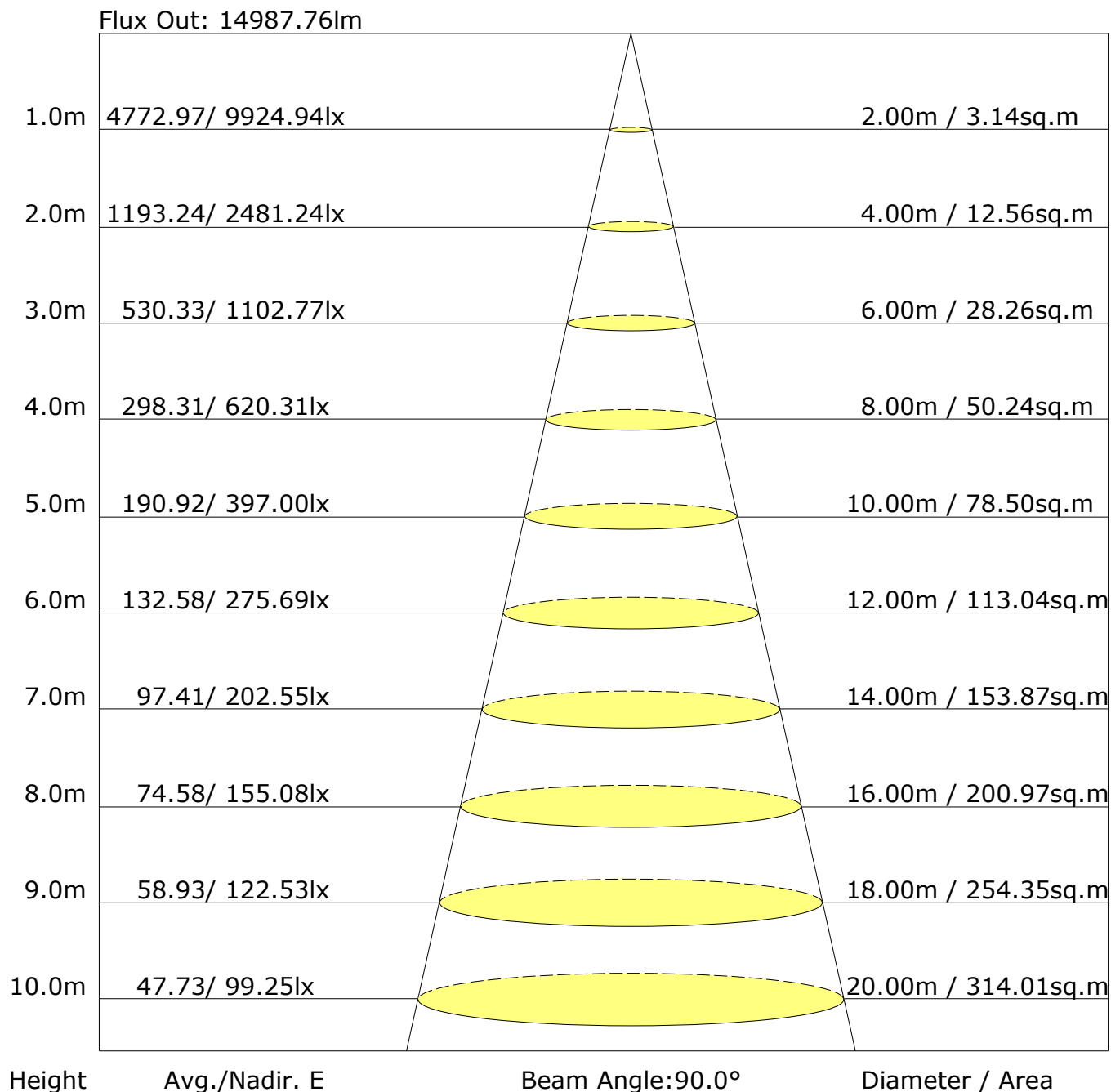
Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 9924.9 lx

( 1%): 99.2 lx	( 2%): 198.5 lx
( 3%): 297.7 lx	( 4%): 397.0 lx
( 5%): 496.2 lx	( 6%): 595.5 lx
( 7%): 694.7 lx	( 8%): 794.0 lx
( 9%): 893.2 lx	( 10%): 992.5 lx

C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 25.1 'C  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-3000  
Distance: 14.140 m [K=1.0000]  
Humidity:  
Inspector:

## The Average Illuminance Effective Figure



C Plane (°): 0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 25.1 'C  
Operator:

Gamma Plane (°): 0.0-180.0: 1.0  
Test Device: GPM-3000  
Distance: 14.140 m [K=1.0000]  
Humidity:  
Inspector:

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	11115	49.4
	FL ( 0°-30°)	3874	17.2
	FM (30°-60°)	5782	25.7
	FH (60°-80°)	1304	5.8
	FVH (80°-90°)	155	0.7
	BACK LIGHT	11253	50.0
	BL ( 0°-30°)	3884	17.3
	BM (30°-60°)	5950	26.4
	BH (60°-80°)	1267	5.6
	BVH (80°-90°)	152	0.7
	UP LIGHT	145	0.6
	UL (90°-100°)	21	0.1
	UH (100°-180°)	124	0.6
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B4 U5 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B4 U5 G1

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Test Lab:  
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Temperature: 25.1 'C  
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Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-3000  
Distance: 14.140 m [K=1.0000]  
Humidity:  
Inspector: