

Report No.:

Test Time: 2022/7/22 21:08

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): 578

Luminous Height (mm):

Current: 0.312 A

Power Factor: 0.950

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 285

Voltage: 277.0 V

Power: 82.22 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 11852 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H145.5,H87.1

Vertical Diffuse Angle(10%,50%): V142.1,V100.2

Luminaire Efficacy Rating (LER): 144.20

Max. Intensity: 5170.75 cd

S/MH(C0/C180): 1.27

Total Rated Lamp Lumens: 11852.0 lm

Efficiency: 100%

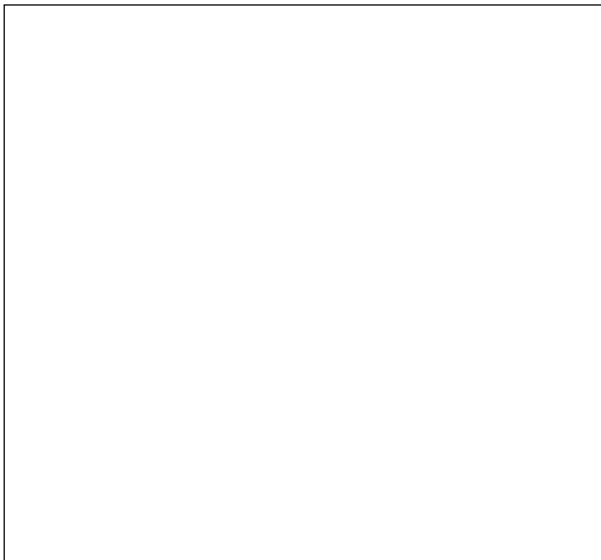
Upward Ratio: 1%

C0r0 Intensity: 5143.7 cd

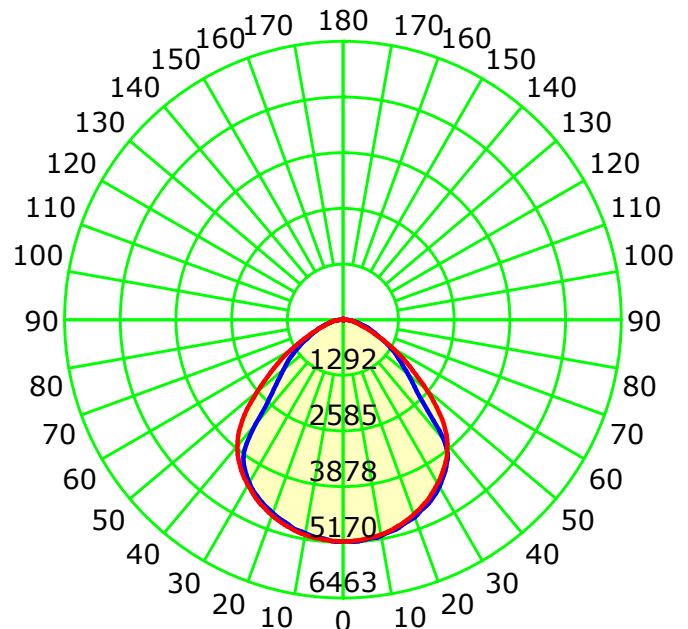
Pos of Max. Intensity: H337.5 V3

S/MH(C90/C270): 1.27

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 93.6°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 25.4 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-3000

Distance: 14.140 m [K=1.0000]

Humidity:

Inspector:

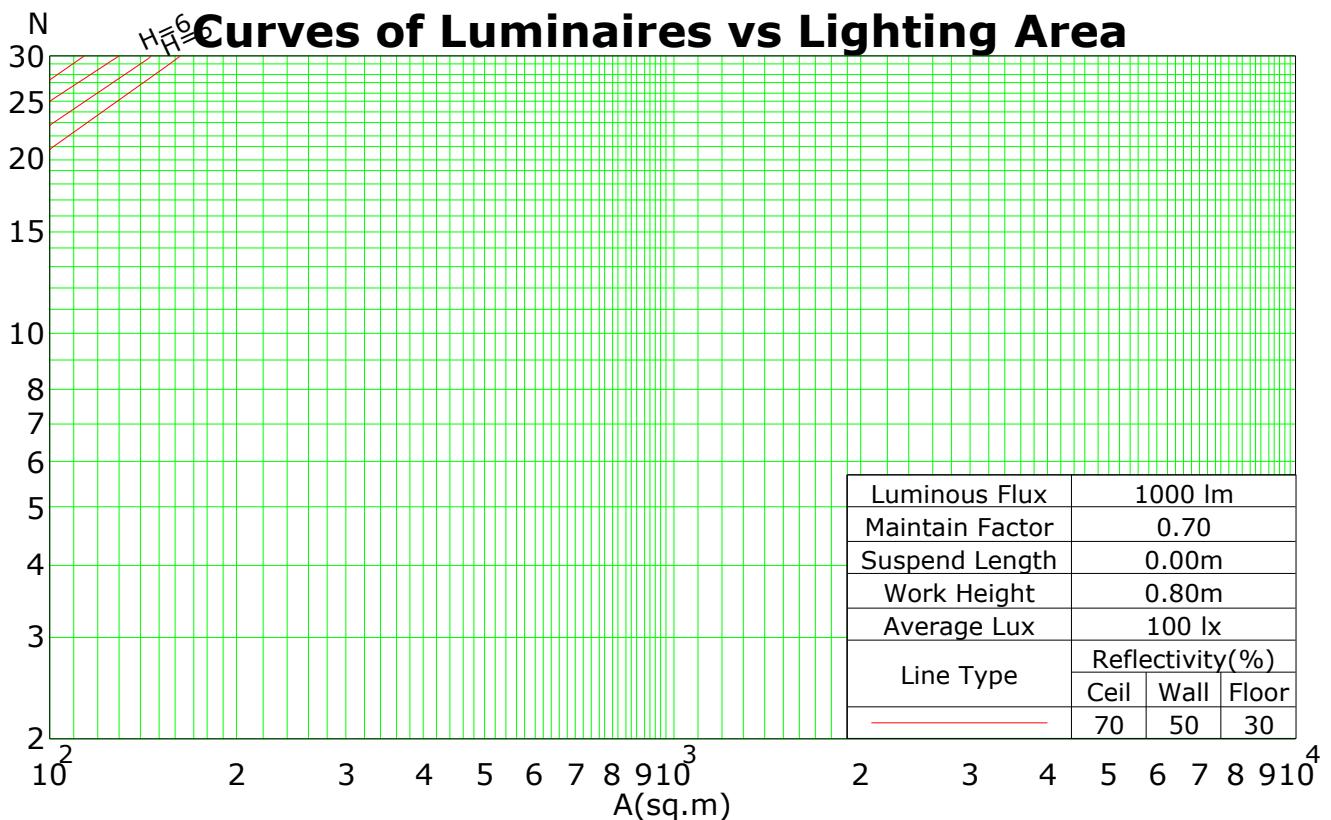
## Coefficients Of Utilization - Zonal Cavity Method

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	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	1.02	1.02	1.02	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	0.86	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	0.76	0.71	0.91	0.82	0.75	0.70	0.79	0.73	0.69	0.76	0.72	0.67	0.74	0.70	0.66	0.64
4	0.86	0.75	0.67	0.61	0.84	0.74	0.66	0.61	0.71	0.65	0.60	0.69	0.63	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	0.51	0.49
6	0.74	0.62	0.53	0.47	0.72	0.61	0.53	0.47	0.59	0.52	0.47	0.57	0.51	0.46	0.56	0.50	0.46	0.44
7	0.69	0.56	0.48	0.42	0.67	0.55	0.48	0.42	0.54	0.47	0.42	0.52	0.46	0.41	0.51	0.45	0.41	0.39
8	0.64	0.52	0.44	0.38	0.63	0.51	0.43	0.38	0.50	0.43	0.38	0.48	0.42	0.37	0.47	0.41	0.37	0.35
9	0.60	0.47	0.40	0.34	0.59	0.47	0.39	0.34	0.46	0.39	0.34	0.45	0.38	0.34	0.44	0.38	0.34	0.32
10	0.57	0.44	0.36	0.31	0.55	0.43	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.31	0.41	0.35	0.31	0.29

Spacing Criteria (0-180): 1.27

Spacing Criteria (90-270): 1.27

Spacing Criteria (Diagonal): 1.31



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 25.4 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

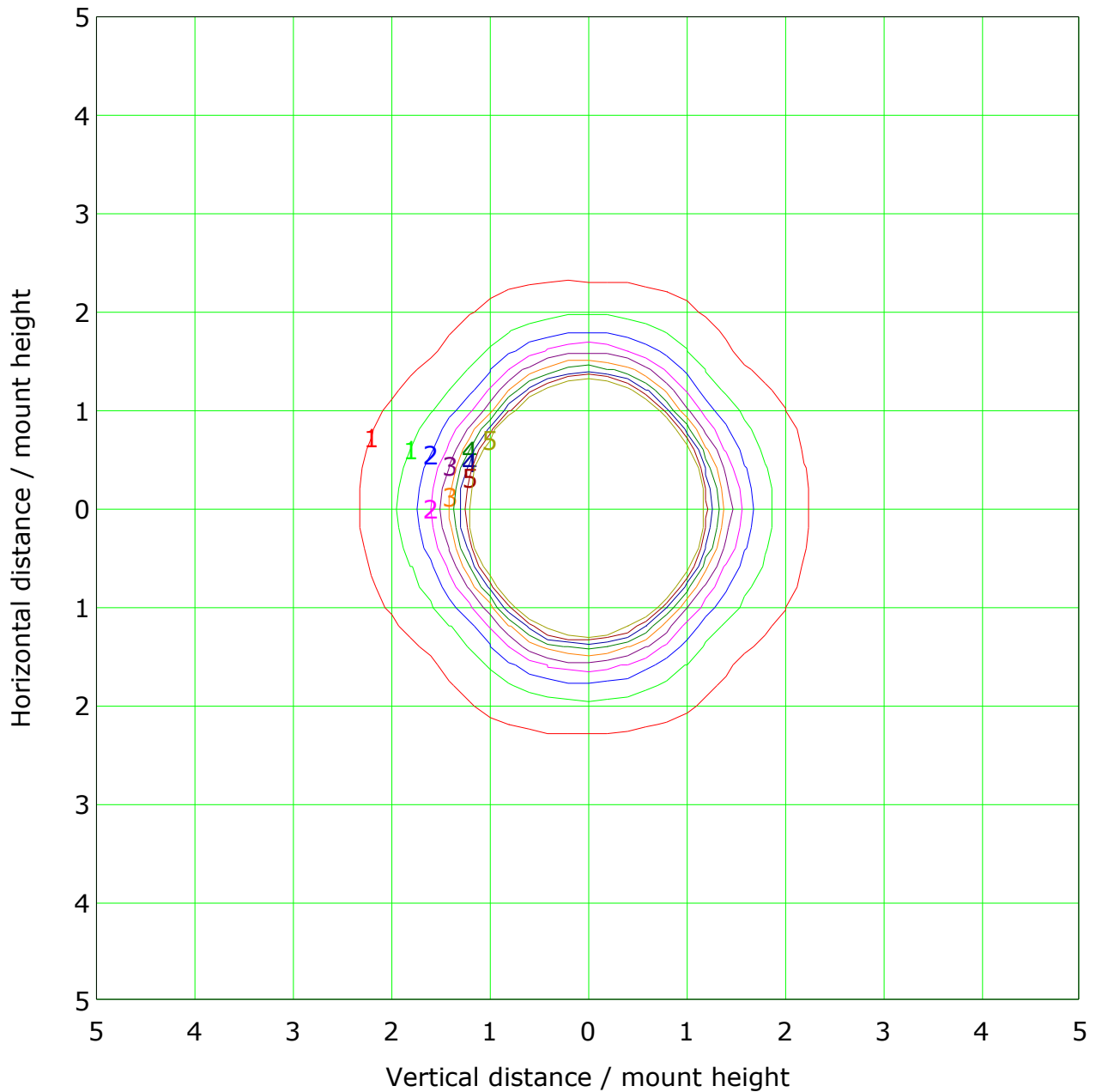
Test Device: GPM-3000

Distance: 14.140 m [K=1.0000]

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 51.5 lx	
( 1%): 0.5 lx	( 2%): 1.0 lx
( 3%): 1.5 lx	( 4%): 2.1 lx
( 5%): 2.6 lx	( 6%): 3.1 lx
( 7%): 3.6 lx	( 8%): 4.1 lx
( 9%): 4.6 lx	(10%): 5.2 lx

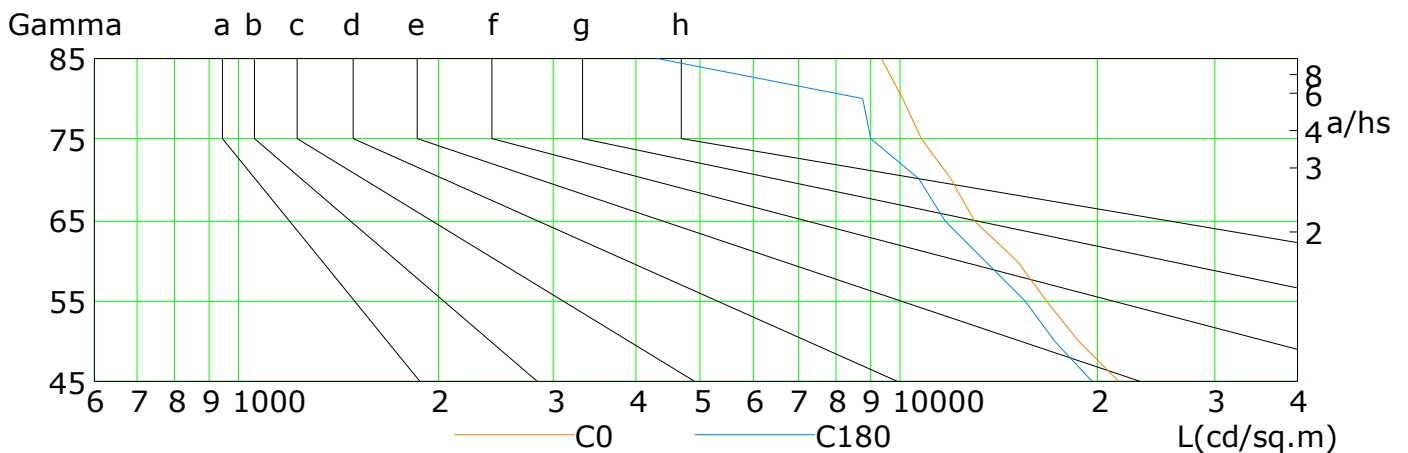
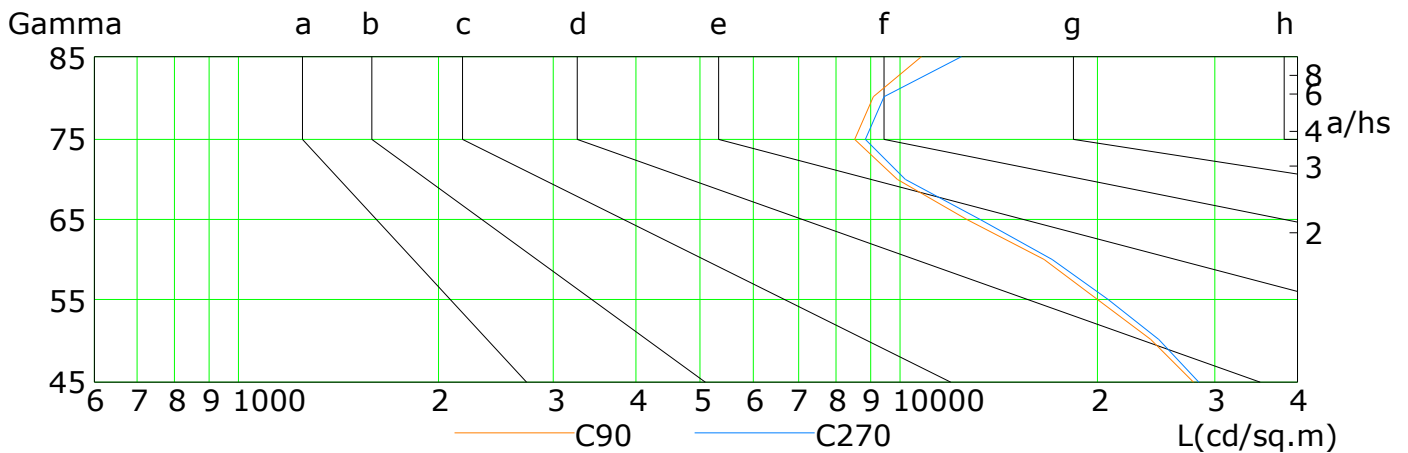
C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 25.4 'C  
Operator:

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

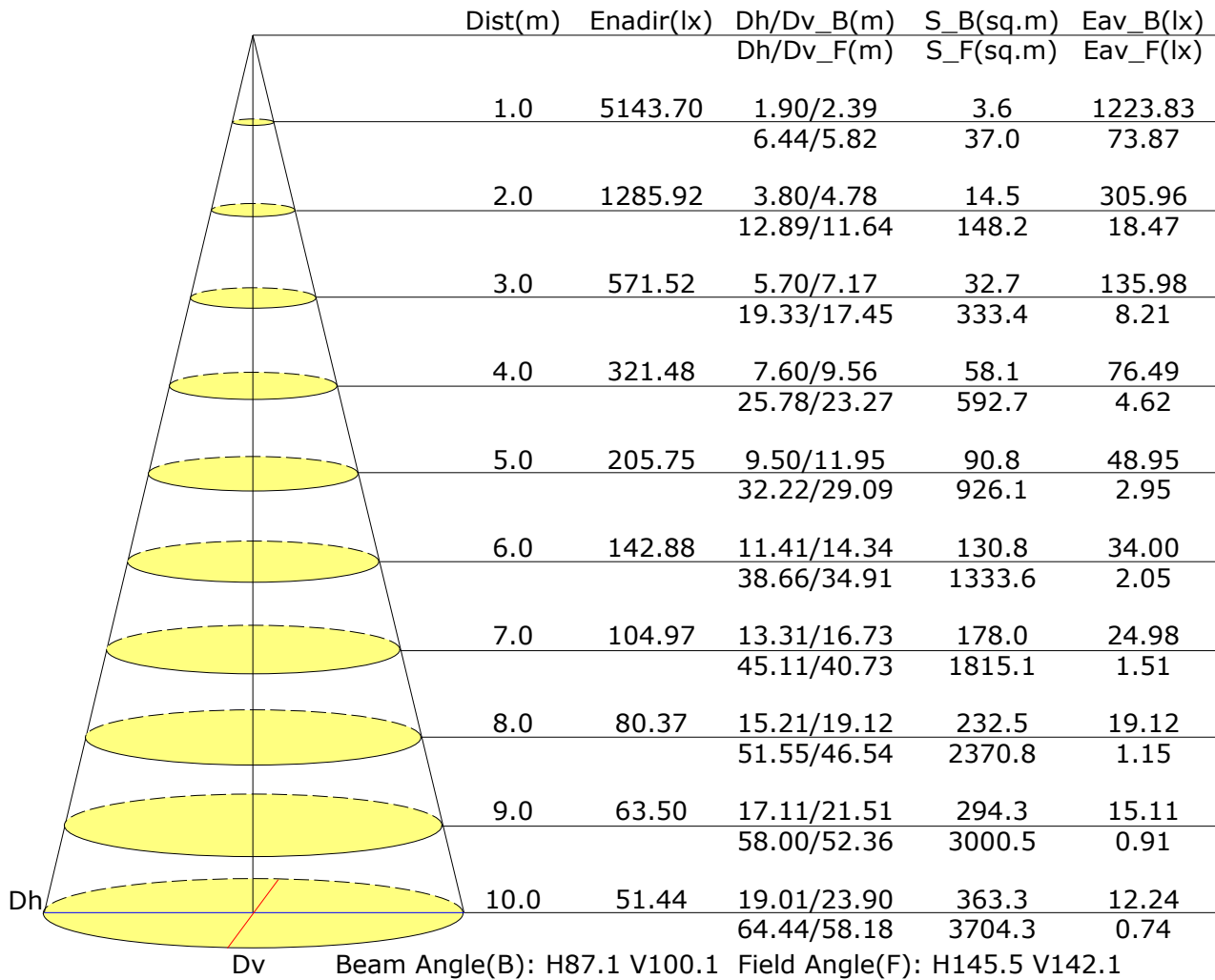


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	21474	18634	16765	15144	13051	11956	10790	10094	9354
C90	27942	24081	19979	16507	12673	9904	8566	9120	10789
C180	19490	17104	15523	13485	11693	10671	9083	8830	4295
C270	28444	24705	20755	17061	13180	10215	8851	9481	12416

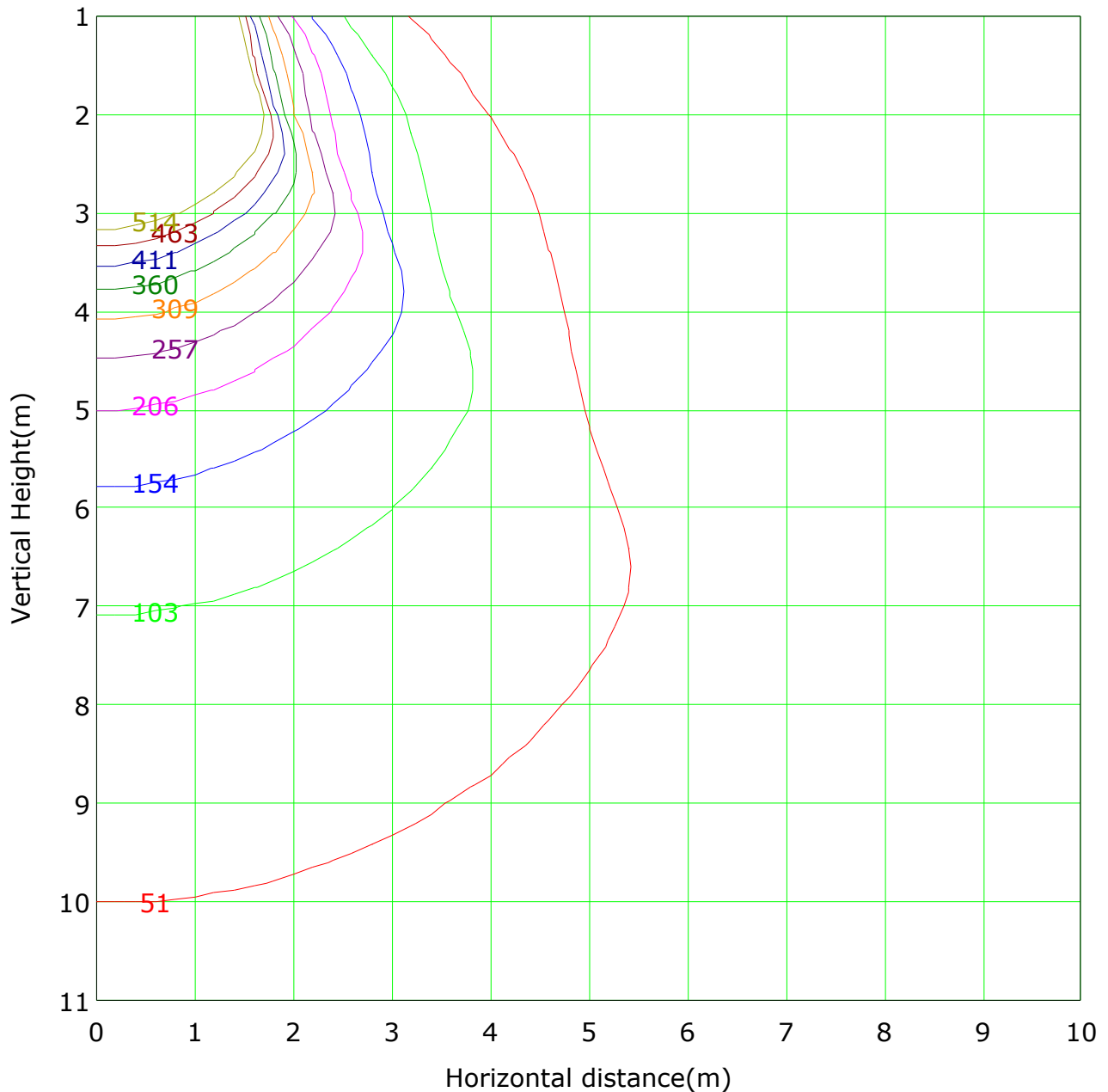
C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 25.4 'C  
Operator:

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



## Vertical IsoLux Plot



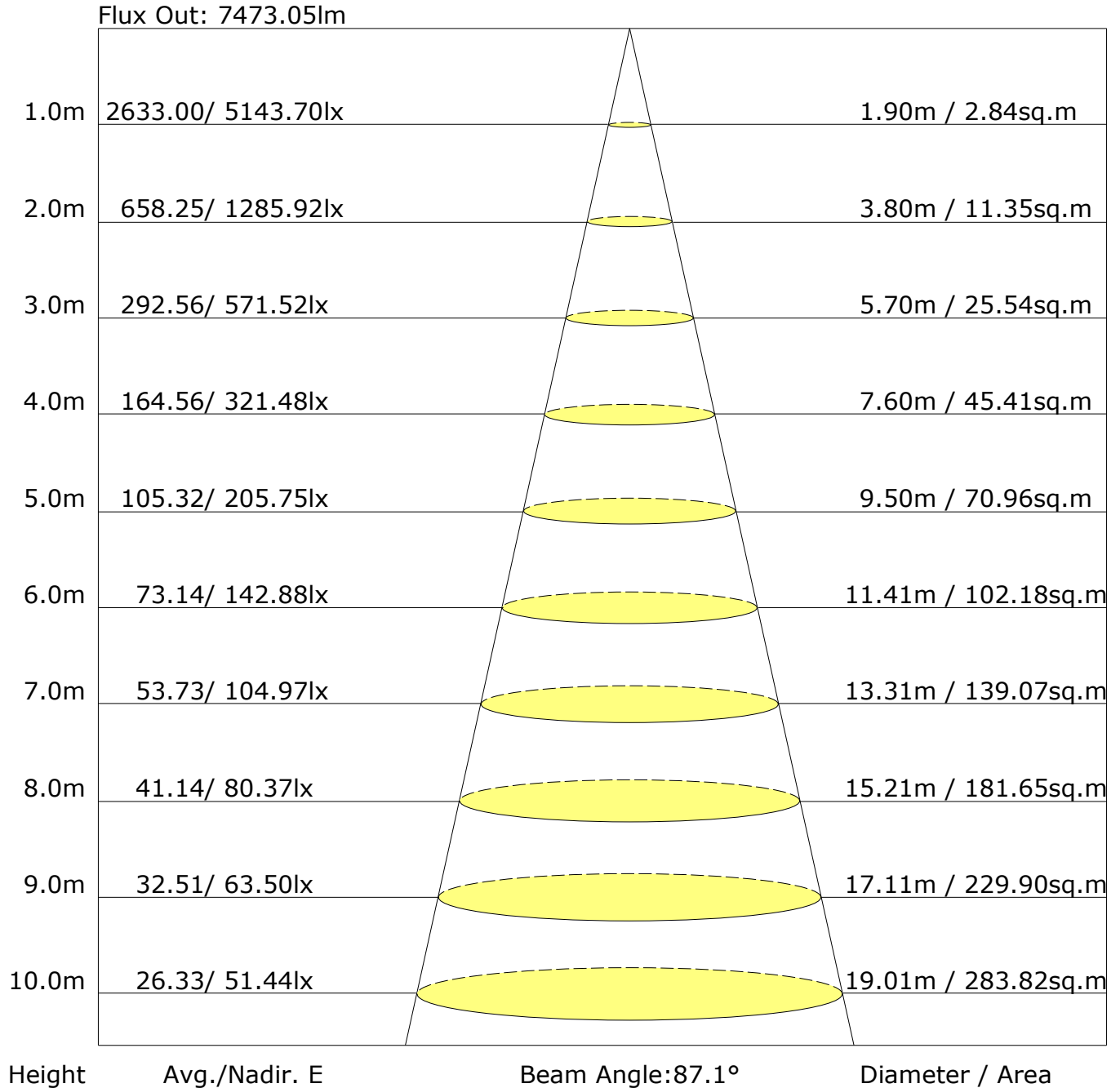
Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 5143.7 lx

( 1%): 51.4 lx	( 2%): 102.9 lx
( 3%): 154.3 lx	( 4%): 205.7 lx
( 5%): 257.2 lx	( 6%): 308.6 lx
( 7%): 360.1 lx	( 8%): 411.5 lx
( 9%): 462.9 lx	(10%): 514.4 lx

C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 25.4 '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: 25.4 °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	5871	49.5
	FL ( 0°-30°)	2013	17.0
	FM (30°-60°)	3103	26.2
	FH (60°-80°)	677	5.7
	FVH (80°-90°)	78	0.7
	BACK LIGHT	5920	50.0
	BL ( 0°-30°)	2020	17.0
	BM (30°-60°)	3131	26.4
	BH (60°-80°)	687	5.8
	BVH (80°-90°)	82	0.7
	UP LIGHT	61	0.5
	UL (90°-100°)	8	0.1
	UH (100°-180°)	53	0.4
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U2 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U2 G1

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Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-3000  
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