

Report No.:

Test Time: 2022/7/25 09:24

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): 578

Luminous Height (mm):

Current: 1.333 A

Power Factor: 0.998

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 285

Voltage: 120.0 V

Power: 159.64 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 22531.6 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(10%,50%): H146.6,H89.9

Vertical Diffuse Angle(10%,50%): V135.9,V97.2

Luminaire Efficacy Rating (LER): 141.19

Max. Intensity: 9981.95 cd

S/MH(C0/C180): 1.27

Total Rated Lamp Lumens: 22531.6 lm

Efficiency: 100%

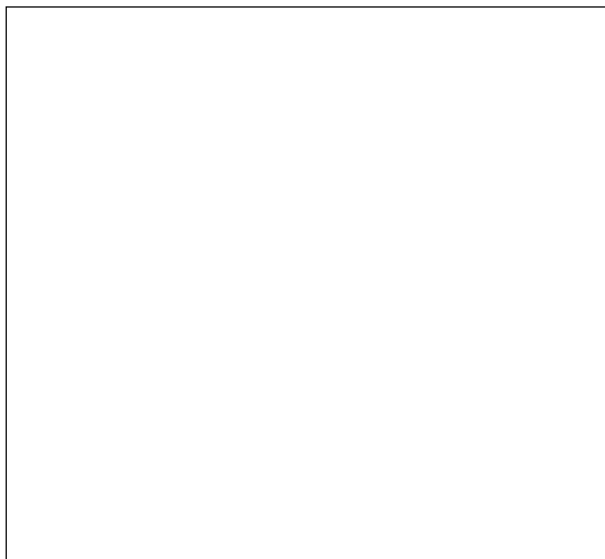
Upward Ratio: 0%

C0r0 Intensity: 9944.95 cd

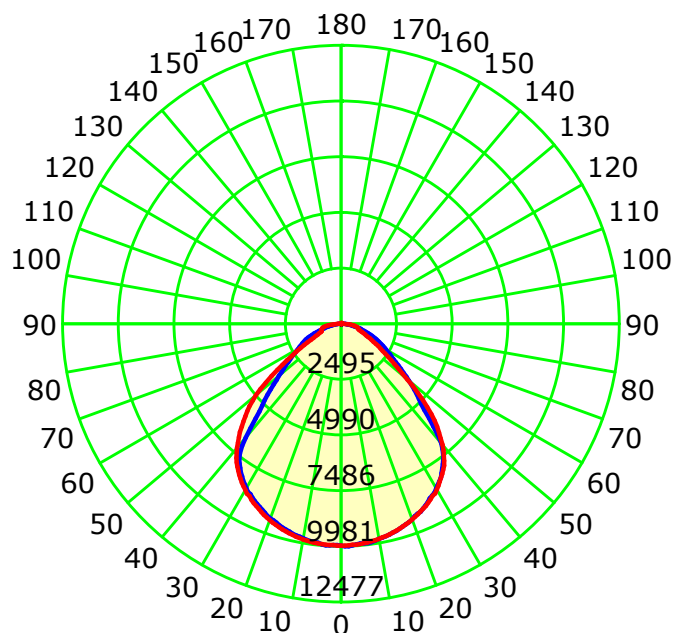
Pos of Max. Intensity: H22.5 V2

S/MH(C90/C270): 1.28

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 93.5°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 24.8 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-3000

Distance: 14.140 m [K=1.0000]

Humidity:

Inspector:

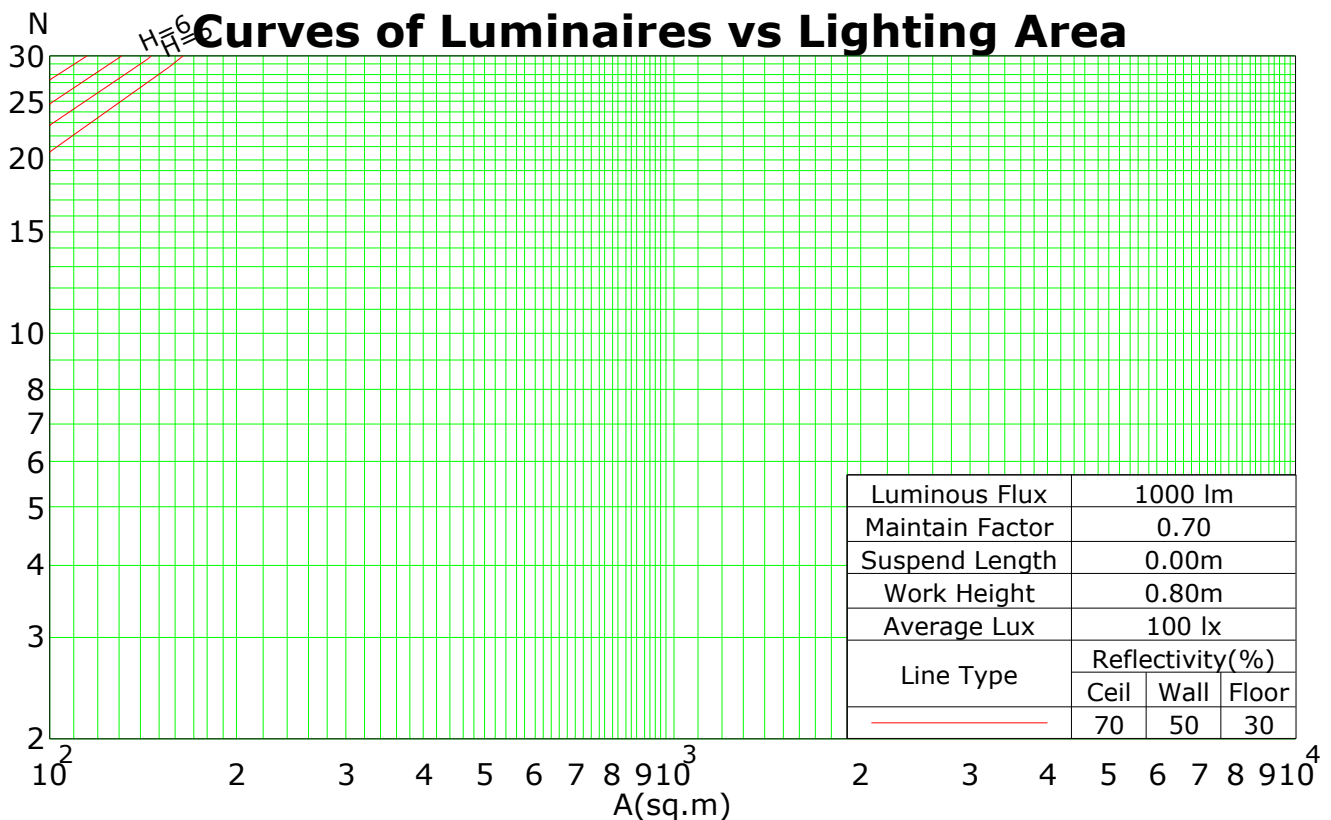
## Coefficients Of Utilization - Zonal Cavity Method

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	1.00
1	1.10	1.06	1.02	0.99	1.07	1.04	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	0.89	0.84	0.80	0.85	0.82	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	0.67	0.65
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	0.54	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	0.48	0.59	0.52	0.47	0.58	0.51	0.47	0.56	0.51	0.46	0.44
7	0.69	0.57	0.48	0.43	0.67	0.56	0.48	0.43	0.54	0.47	0.42	0.53	0.47	0.42	0.51	0.46	0.42	0.40
8	0.65	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	0.48	0.42	0.38	0.36
9	0.60	0.48	0.40	0.35	0.59	0.47	0.40	0.35	0.46	0.39	0.35	0.45	0.39	0.34	0.44	0.38	0.34	0.32
10	0.57	0.44	0.37	0.32	0.56	0.44	0.37	0.32	0.43	0.36	0.32	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:

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Temperature: 24.8 'C

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Gamma Plane (°):0.0-180.0:1.0

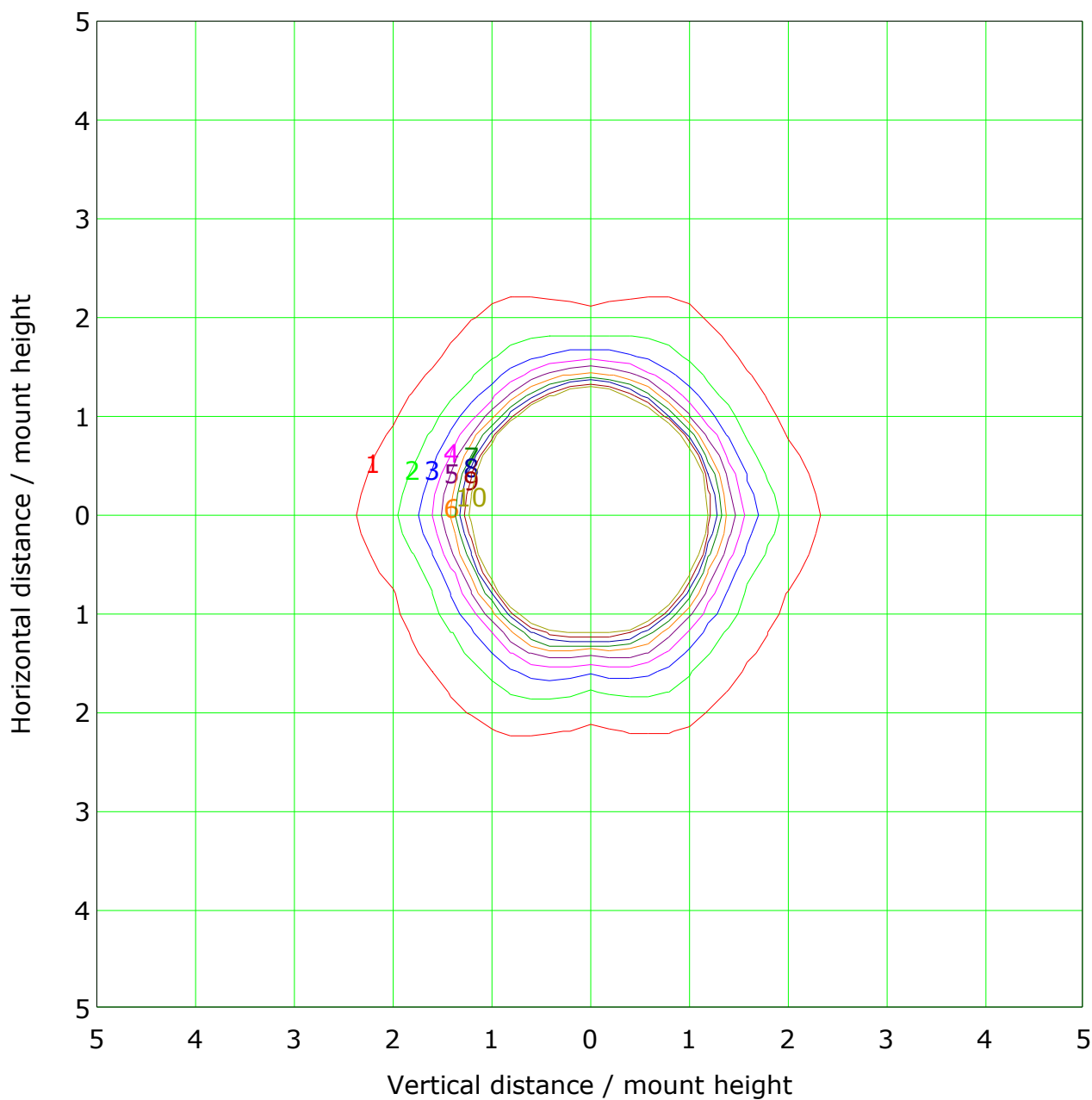
Test Device: GPM-3000

Distance: 14.140 m [K=1.0000]

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 99.7 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%): 7.0 lx	( 8%): 8.0 lx
( 9%): 9.0 lx	(10%): 10.0 lx

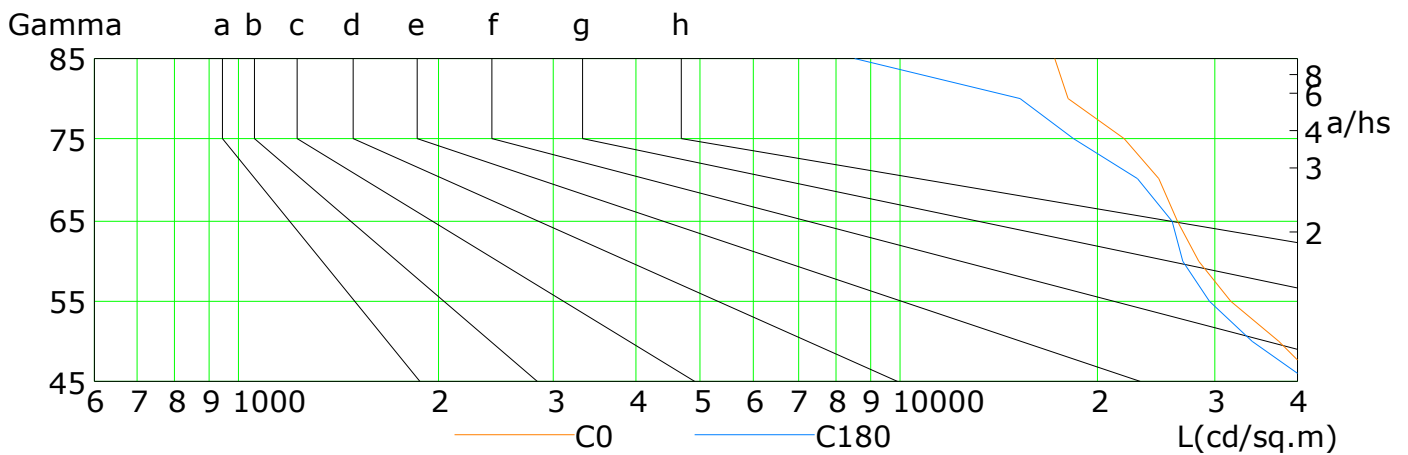
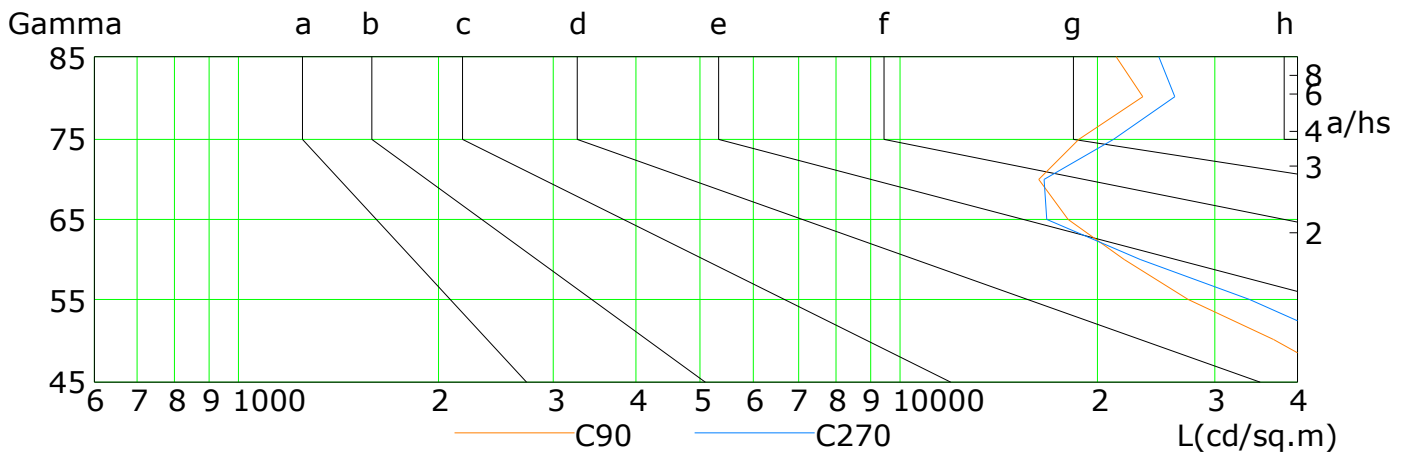
C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 24.8 'C  
Operator:

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

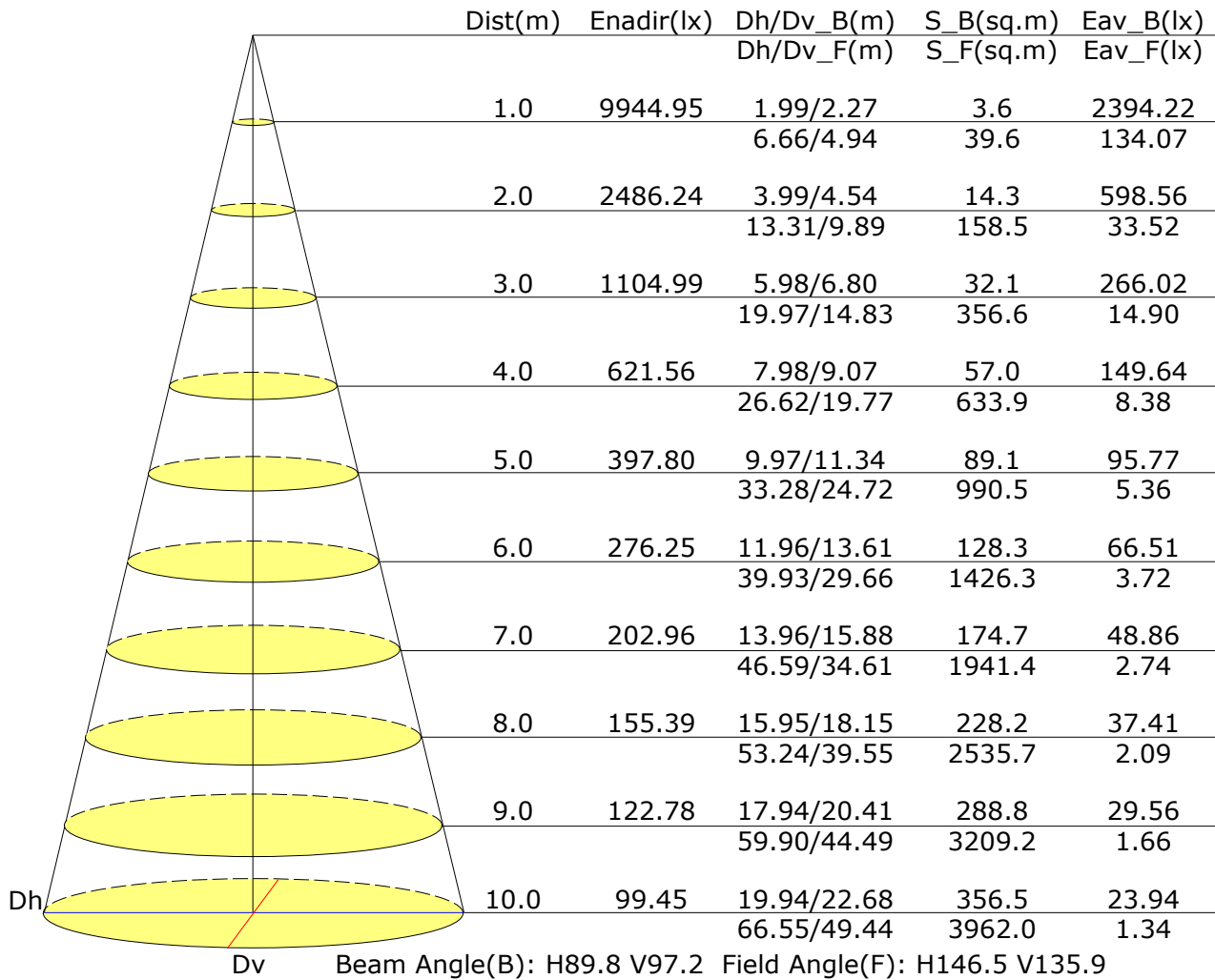


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	43564	37658	31771	28397	26401	24642	21847	18066	17118
C90	49206	36741	27359	21969	18067	16178	18757	23474	21323
C180	41649	34318	29571	26863	25821	22886	18266	15265	8521
C270	53202	47119	34002	23193	16766	16515	21156	26041	24708

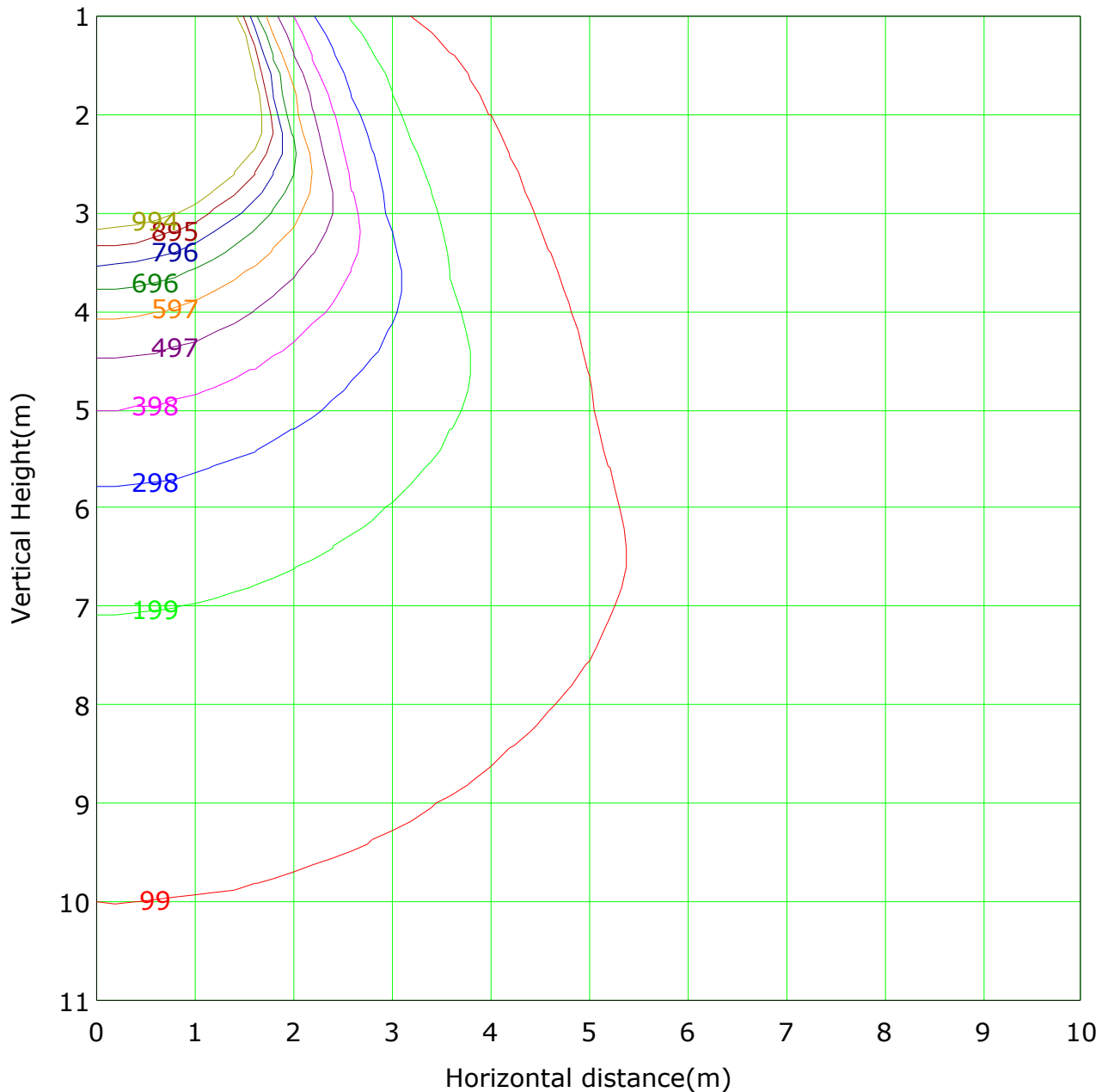
C Plane (°):0.0-360.0: 22.5  
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Test Type: TYPE C  
Temperature: 24.8 'C  
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Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot

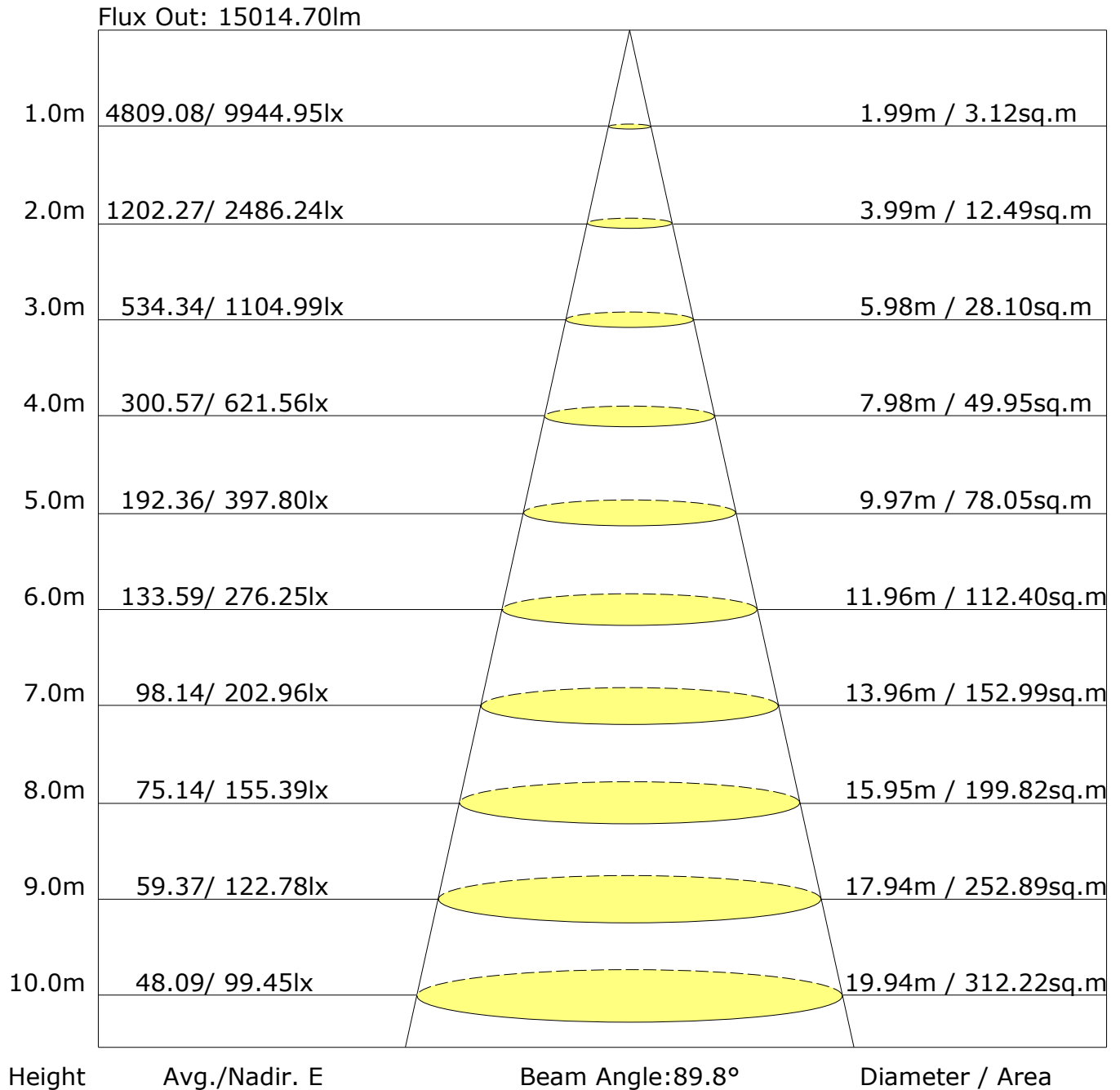


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 9945.0 lx
( 1%): 99.4 lx	( 2%): 198.9 lx	
( 3%): 298.3 lx	( 4%): 397.8 lx	
( 5%): 497.2 lx	( 6%): 596.7 lx	
( 7%): 696.1 lx	( 8%): 795.6 lx	
( 9%): 895.0 lx	( 10%): 994.5 lx	

C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 24.8 '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: 24.8 '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	11147	49.5
	FL ( 0°-30°)	3890	17.3
	FM (30°-60°)	5802	25.7
	FH (60°-80°)	1304	5.8
	FVH (80°-90°)	152	0.7
	BACK LIGHT	11290	50.1
	BL ( 0°-30°)	3901	17.3
	BM (30°-60°)	5973	26.5
	BH (60°-80°)	1267	5.6
	BVH (80°-90°)	149	0.7
	UP LIGHT	94	0.4
	UL (90°-100°)	12	0.1
	UH (100°-180°)	82	0.4
	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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