

Report No.:

Test Time: 2023/6/30 14:49

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): 585

Luminous Height (mm):

Current: 1.822 A

Power Factor: 0.999

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 320

Voltage: 120.0 V

Power: 218.43 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 31098.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(10%,50%): H145.1,H90.9

Vertical Diffuse Angle(10%,50%): V135.9,V90.9

Luminaire Efficacy Rating (LER): 142.42

Max. Intensity: 14352.73 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 31098.1 lm

Efficiency: 100%

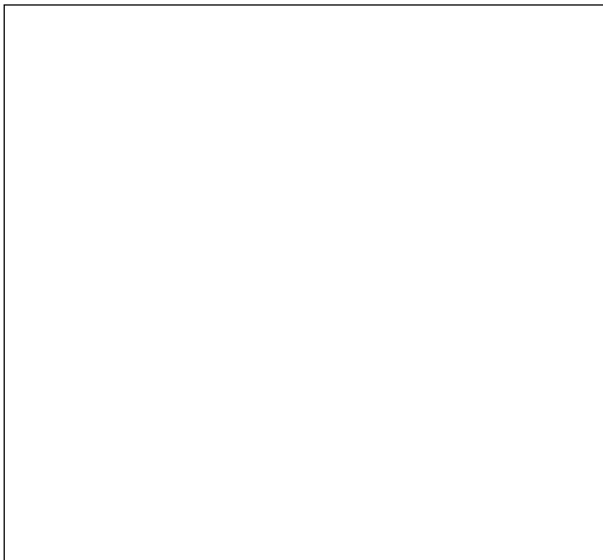
Upward Ratio: 0%

C0r0 Intensity: 14347.38 cd

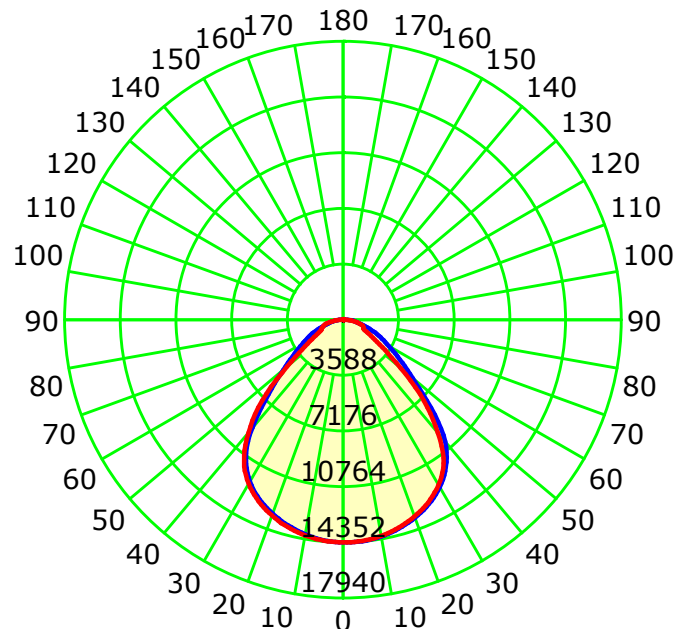
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 90.9°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 25.3 °C

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-3000

Distance: 14.140 m [K=1.0000]

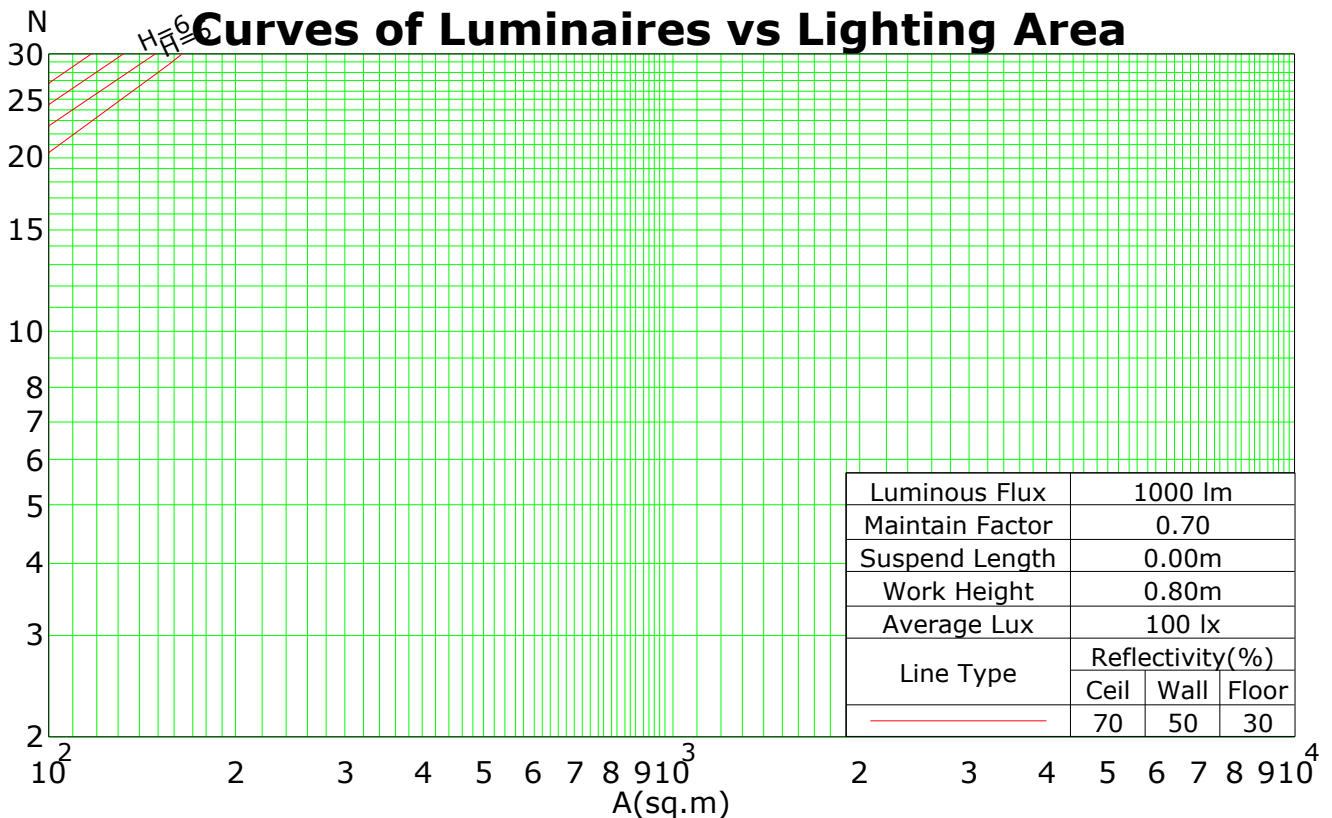
Humidity:

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	0.97	0.94	0.95	0.93	0.91	0.92	0.90	0.88	0.86
2	1.02	0.94	0.88	0.83	0.99	0.92	0.87	0.82	0.89	0.84	0.80	0.86	0.82	0.78	0.83	0.79	0.77	0.75
3	0.94	0.84	0.77	0.71	0.91	0.83	0.76	0.71	0.80	0.74	0.69	0.77	0.72	0.68	0.75	0.71	0.67	0.65
4	0.87	0.76	0.68	0.62	0.84	0.75	0.67	0.62	0.72	0.66	0.61	0.70	0.64	0.60	0.68	0.63	0.59	0.57
5	0.80	0.69	0.61	0.55	0.78	0.68	0.60	0.54	0.66	0.59	0.54	0.64	0.58	0.53	0.62	0.57	0.53	0.51
6	0.75	0.63	0.54	0.49	0.73	0.62	0.54	0.48	0.60	0.53	0.48	0.58	0.52	0.48	0.57	0.51	0.47	0.45
7	0.70	0.57	0.49	0.44	0.68	0.56	0.49	0.43	0.55	0.48	0.43	0.54	0.47	0.43	0.52	0.47	0.42	0.41
8	0.65	0.53	0.45	0.39	0.64	0.52	0.44	0.39	0.51	0.44	0.39	0.49	0.43	0.39	0.48	0.43	0.38	0.37
9	0.61	0.49	0.41	0.36	0.60	0.48	0.41	0.36	0.47	0.40	0.35	0.46	0.40	0.35	0.45	0.39	0.35	0.33
10	0.57	0.45	0.38	0.33	0.56	0.44	0.37	0.33	0.44	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.30

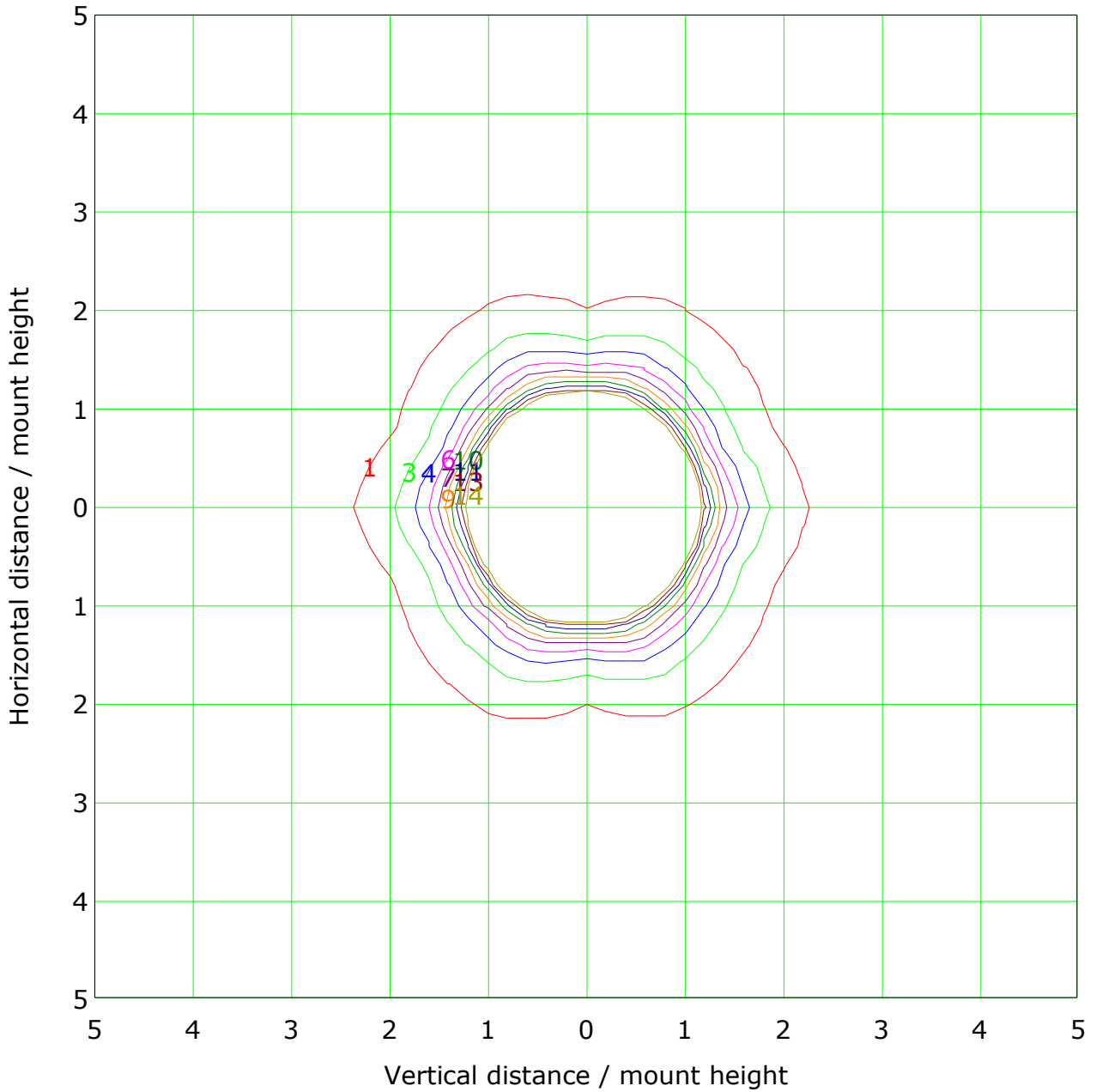
Spacing Criteria (0-180): 1.26  
 Spacing Criteria (90-270): 1.26  
 Spacing Criteria (Diagonal): 1.27



C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25.3 °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%): 143.5 lx
— ( 1%):	1.4 lx	— ( 2%): 2.9 lx
— ( 3%):	4.3 lx	— ( 4%): 5.7 lx
— ( 5%):	7.2 lx	— ( 6%): 8.6 lx
— ( 7%):	10.0 lx	— ( 8%): 11.5 lx
— ( 9%):	12.9 lx	— ( 10%): 14.3 lx

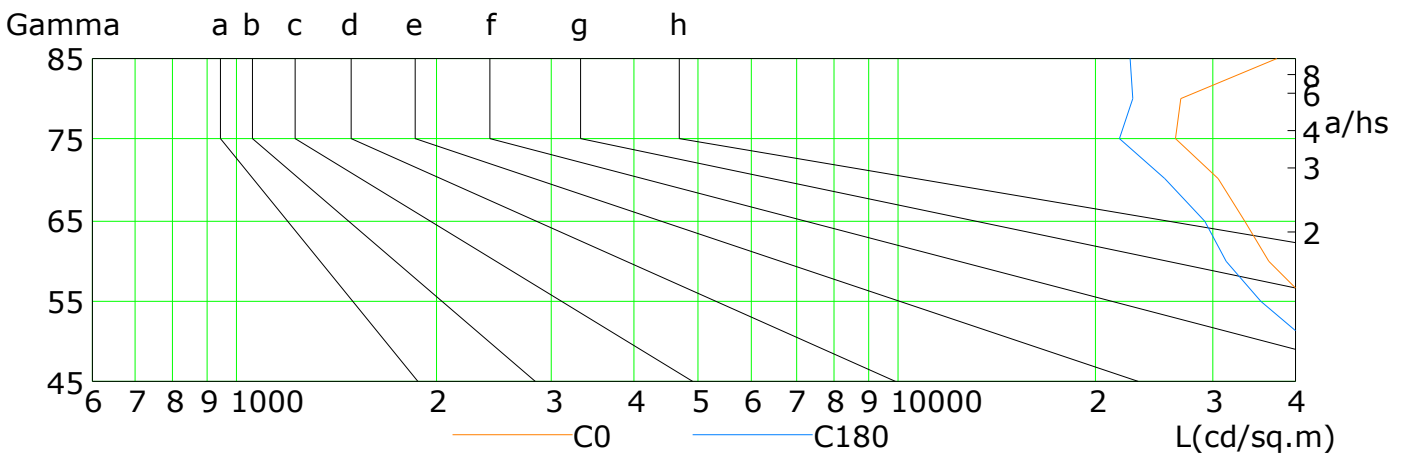
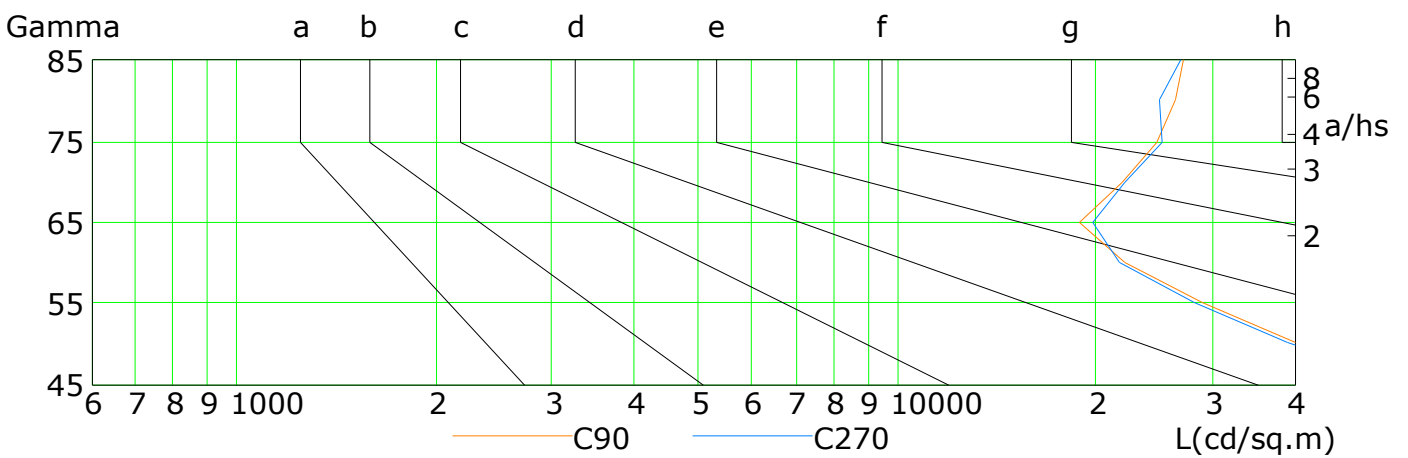
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 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25.3 °C  
 Operator:

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)									
		2000	1000	500	<=300						
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

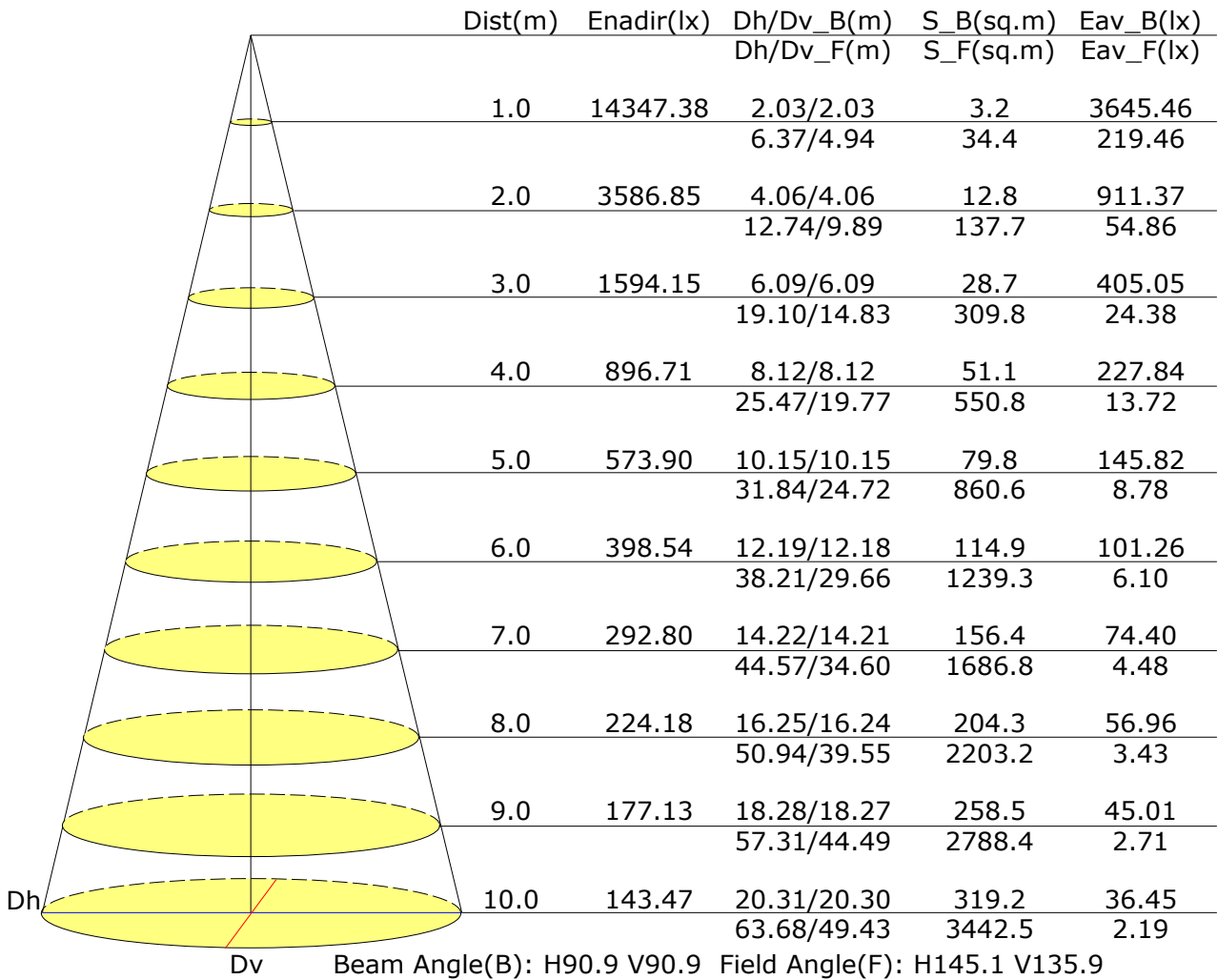


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	60684	48900	41642	36387	33740	30493	26263	26736	37499
C90	55688	40379	28913	22186	18939	21803	24600	26478	27057
C180	51381	41988	35440	31552	29074	25339	21747	22658	22473
C270	55908	39151	28039	21780	19835	22088	25250	25046	26838

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Test Device: GPM-3000  
Distance: 14.140 m [K=1.0000]  
Humidity:  
Inspector:

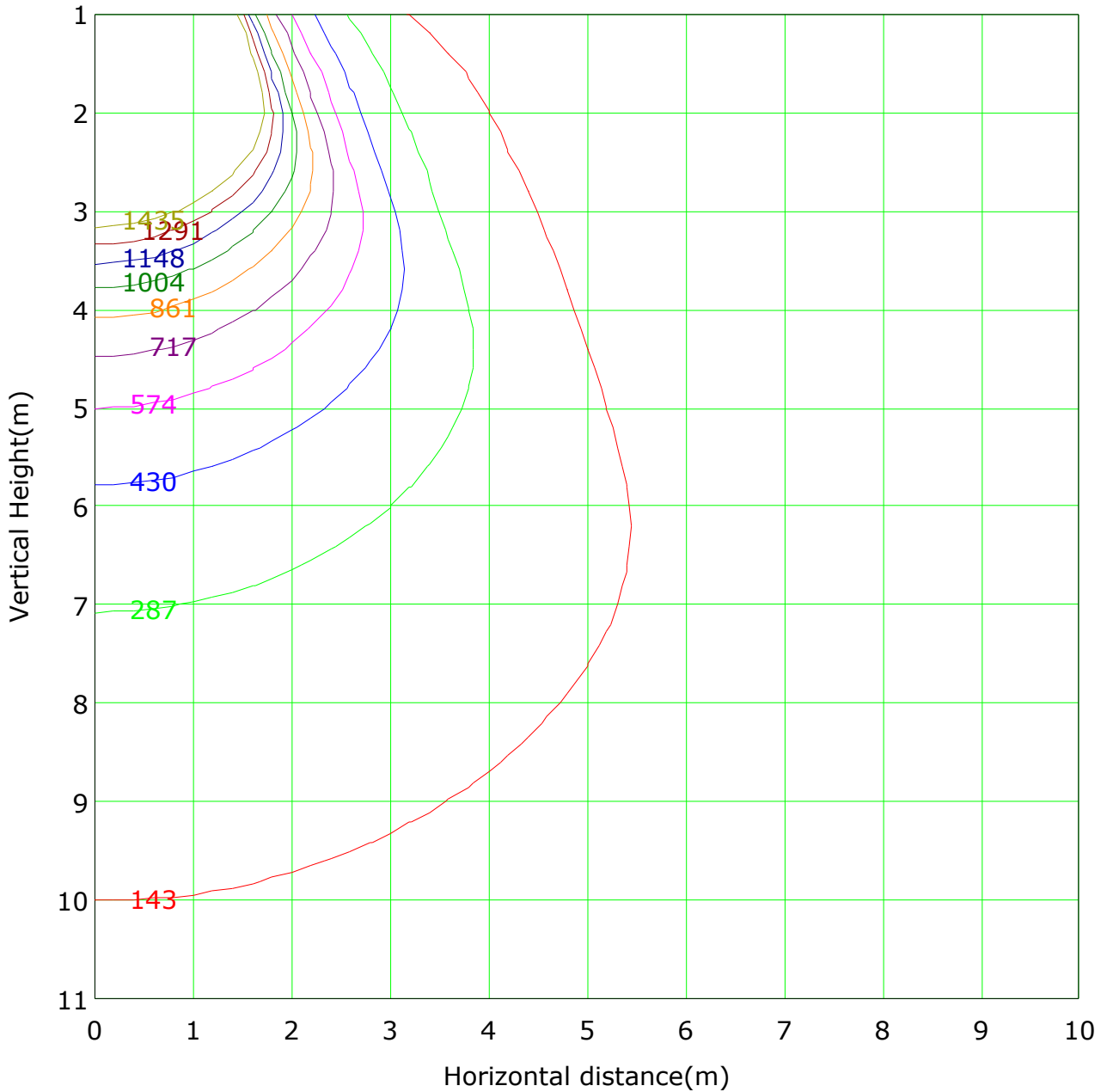
## Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25.3 '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



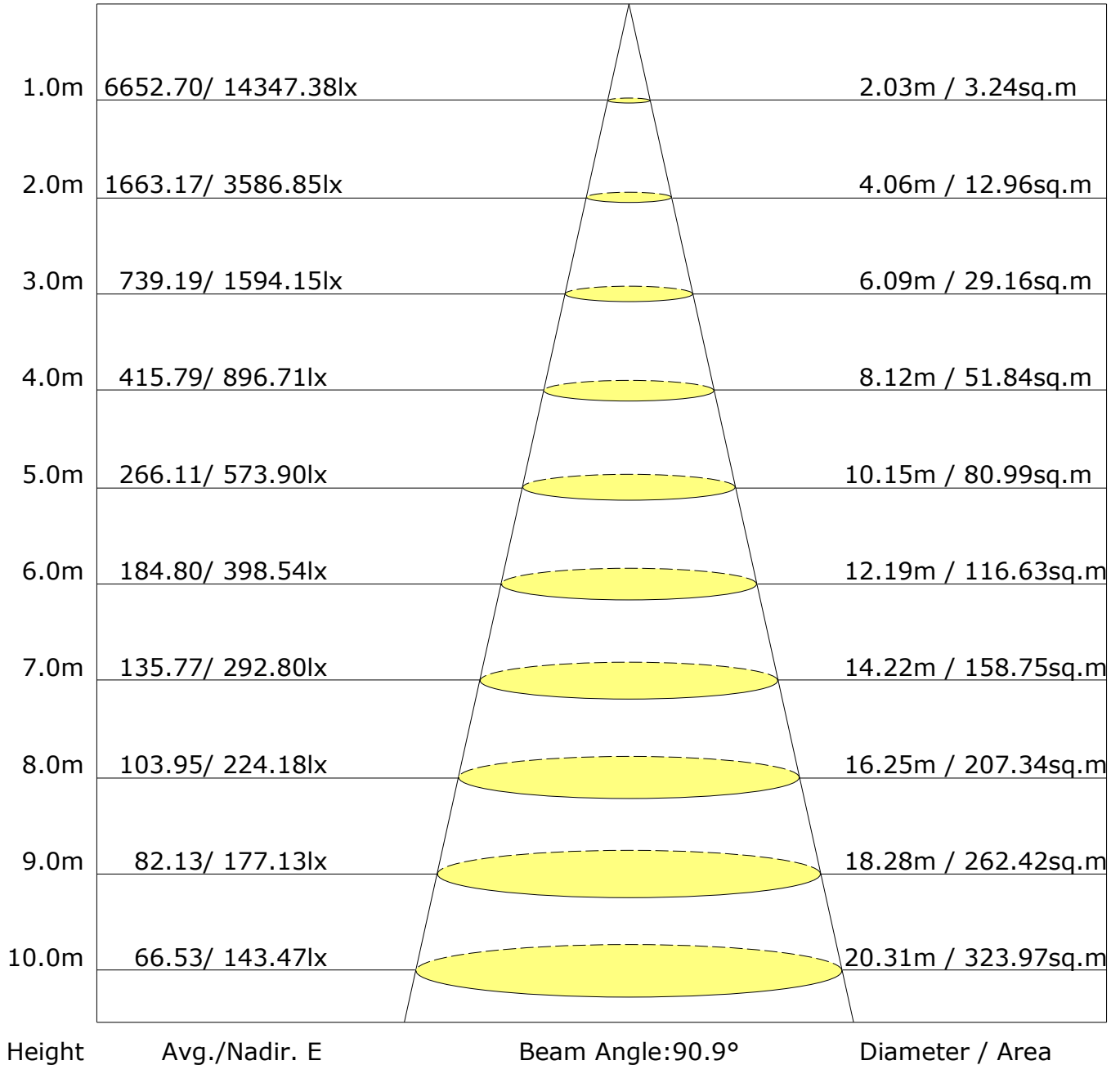
Lowest(m): 1.0m		Highest(m): 11.0m		Max Lux: 14347.4 lx	
— ( 1%): 143.5 lx		— ( 2%): 286.9 lx			
— ( 3%): 430.4 lx		— ( 4%): 573.9 lx			
— ( 5%): 717.4 lx		— ( 6%): 860.8 lx			
— ( 7%): 1004.3 lx		— ( 8%): 1147.8 lx			
— ( 9%): 1291.3 lx		— ( 10%): 1434.7 lx			

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25.3 '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

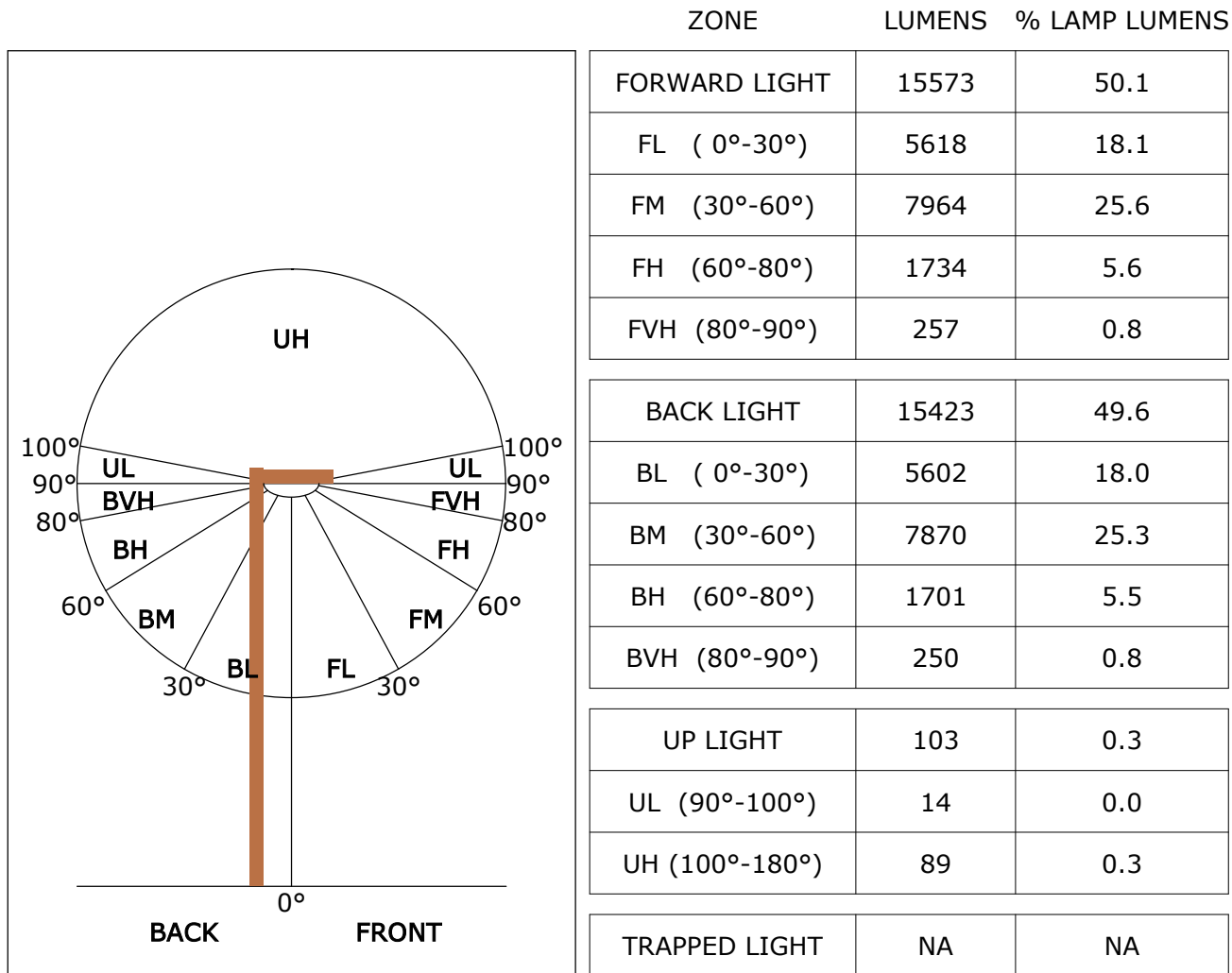
Flux Out: 21552.85lm



C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25.3 °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**



<b>BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07</b>	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B5 U5 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B5 U5 G2

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 Test Device: GPM-3000  
 Distance: 14.140 m [K=1.0000]  
 Humidity:  
 Inspector: