

Report No.:

Test Time: 2022/10/21 14:51

## Luminaire Property

Luminaire Manufacturer: ASD LIGHTING CORP  
 Luminaire Modle: ASD-WHB5AZZ-220D50

Luminous Length (mm): 495  
 Luminous Height (mm):  
 Current: 1.802 A  
 Power Factor: 0.996

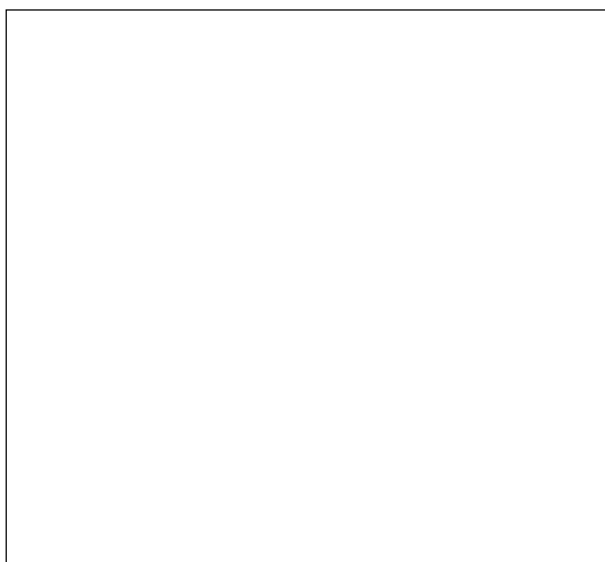
Voltage: 120.0 V  
 Power: 218 W

## Photometric Results

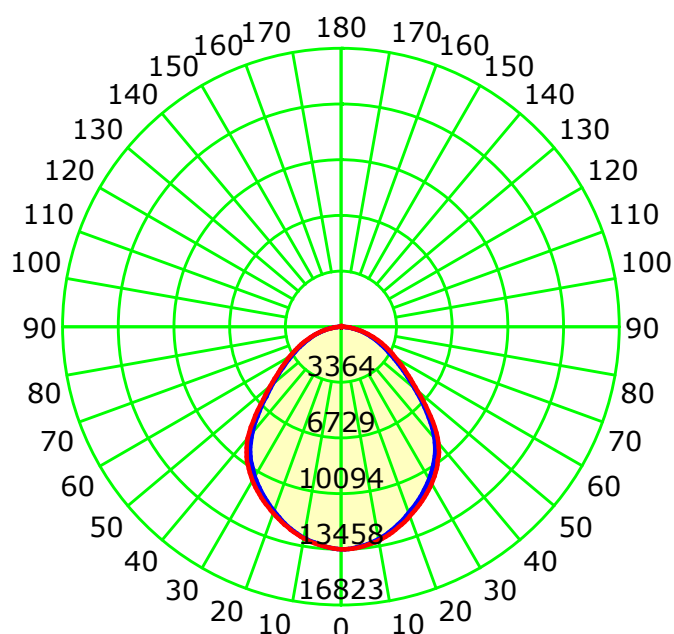
CIE Class: Direct  
 Measurement Flux: 30735.7 lm  
 Downward Ratio: 100%  
 Horizontal Diffuse Angle(10%,50%): H151.8,H92.3  
 Vertical Diffuse Angle(10%,50%): V153,V94  
 Luminaire Efficacy Rating (LER): 142.76  
 Max. Intensity: 13458.85 cd  
 S/MH(C0/C180): 1.17

Total Rated Lamp Lumens: 29434 lm  
 Efficiency: 100%  
 Upward Ratio: 0%  
 C0r0 Intensity: 13445.55 cd  
 Pos of Max. Intensity: H90 V1  
 S/MH(C90/C270): 1.20

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 93.2°

— C0-C180 — C90-C270

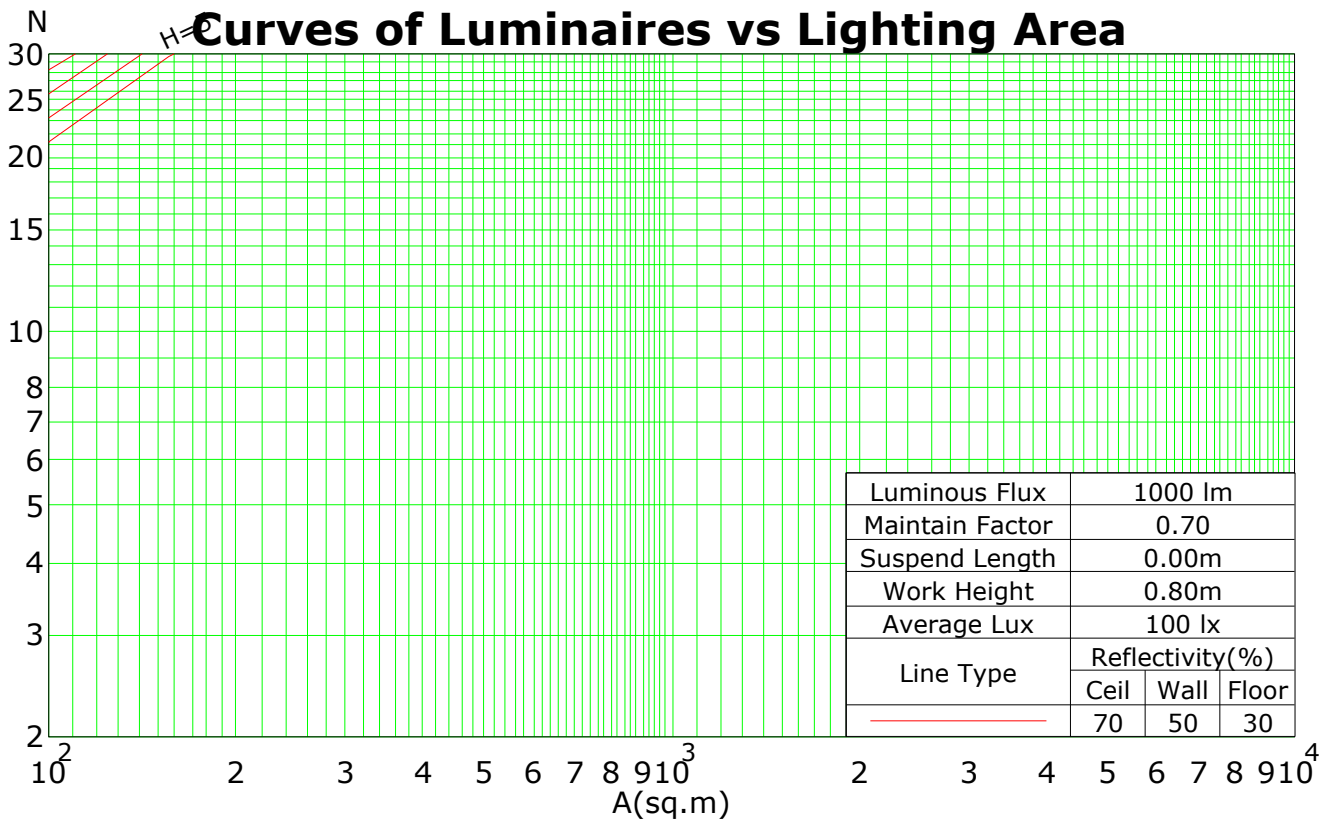
C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25.9 °C  
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Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-3000  
 Distance: 14.140 m [K=1.0000]  
 Humidity:  
 Inspector:

## 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	1.05	1.01	0.98	1.07	1.03	0.99	0.96	0.99	0.96	0.93	0.95	0.92	0.90	0.91	0.89	0.87	0.85
2	1.01	0.93	0.87	0.81	0.98	0.91	0.85	0.80	0.87	0.83	0.78	0.84	0.80	0.77	0.81	0.78	0.75	0.73
3	0.92	0.83	0.75	0.69	0.90	0.81	0.74	0.68	0.78	0.72	0.67	0.75	0.70	0.66	0.73	0.68	0.65	0.63
4	0.85	0.74	0.66	0.59	0.83	0.72	0.65	0.59	0.70	0.63	0.58	0.68	0.62	0.57	0.65	0.60	0.56	0.54
5	0.79	0.66	0.58	0.52	0.77	0.65	0.57	0.51	0.63	0.56	0.51	0.61	0.55	0.50	0.59	0.54	0.50	0.48
6	0.73	0.60	0.52	0.46	0.71	0.59	0.51	0.45	0.57	0.50	0.45	0.56	0.49	0.45	0.54	0.49	0.44	0.42
7	0.68	0.55	0.47	0.41	0.66	0.54	0.46	0.41	0.53	0.45	0.40	0.51	0.45	0.40	0.50	0.44	0.40	0.38
8	0.63	0.50	0.42	0.37	0.62	0.50	0.42	0.36	0.48	0.41	0.36	0.47	0.41	0.36	0.46	0.40	0.36	0.34
9	0.59	0.46	0.38	0.33	0.58	0.46	0.38	0.33	0.45	0.38	0.33	0.44	0.37	0.33	0.43	0.37	0.32	0.31
10	0.56	0.43	0.35	0.30	0.54	0.42	0.35	0.30	0.41	0.35	0.30	0.40	0.34	0.30	0.40	0.34	0.30	0.28

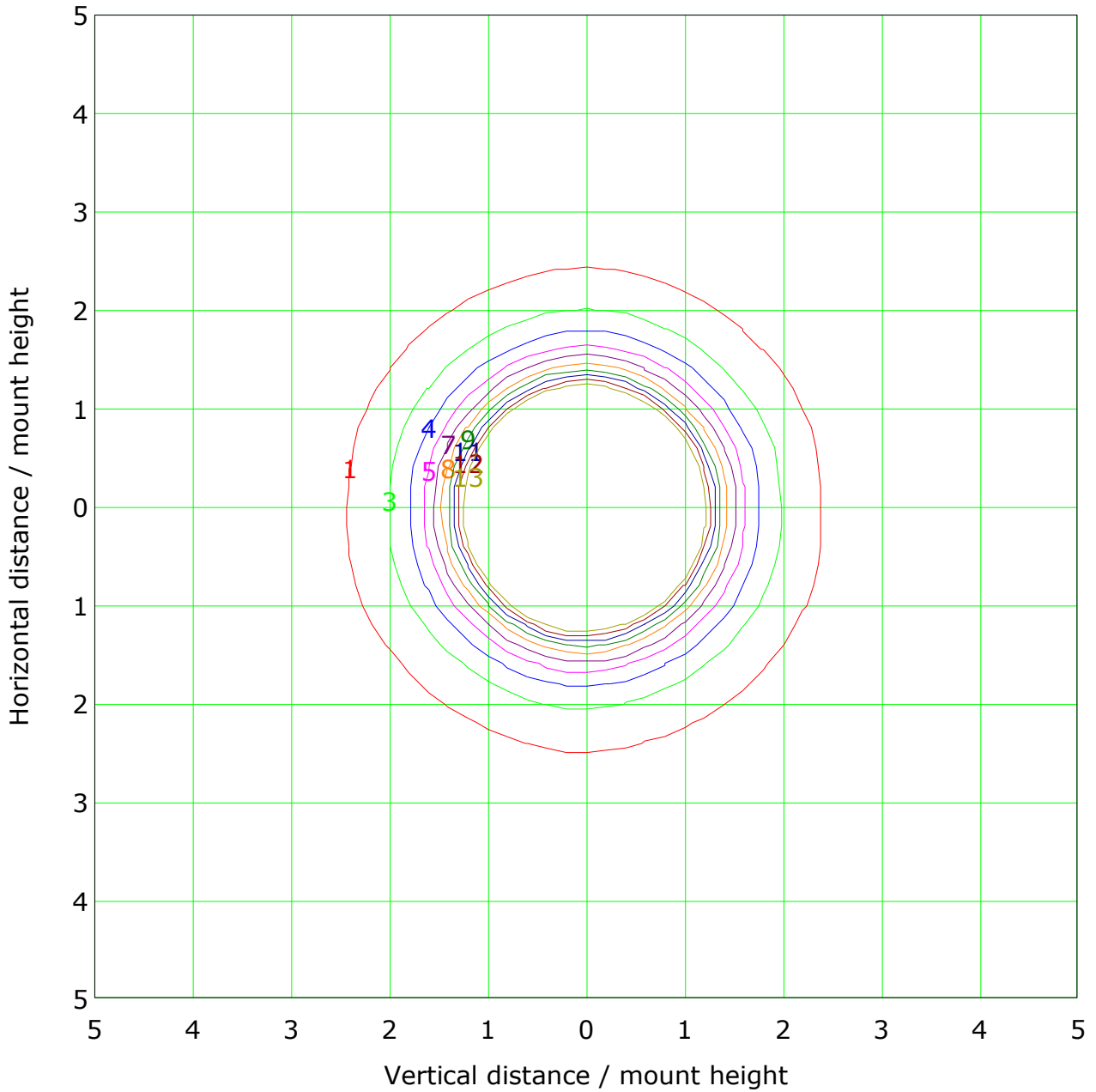
Spacing Criteria (0-180): 1.17  
 Spacing Criteria (90-270): 1.20  
 Spacing Criteria (Diagonal): 1.27



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# IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 134.5 lx
— ( 1%):	1.3 lx	— ( 2%): 2.7 lx
— ( 3%):	4.0 lx	— ( 4%): 5.4 lx
— ( 5%):	6.7 lx	— ( 6%): 8.1 lx
— ( 7%):	9.4 lx	— ( 8%): 10.8 lx
— ( 9%):	12.1 lx	— ( 10%): 13.5 lx

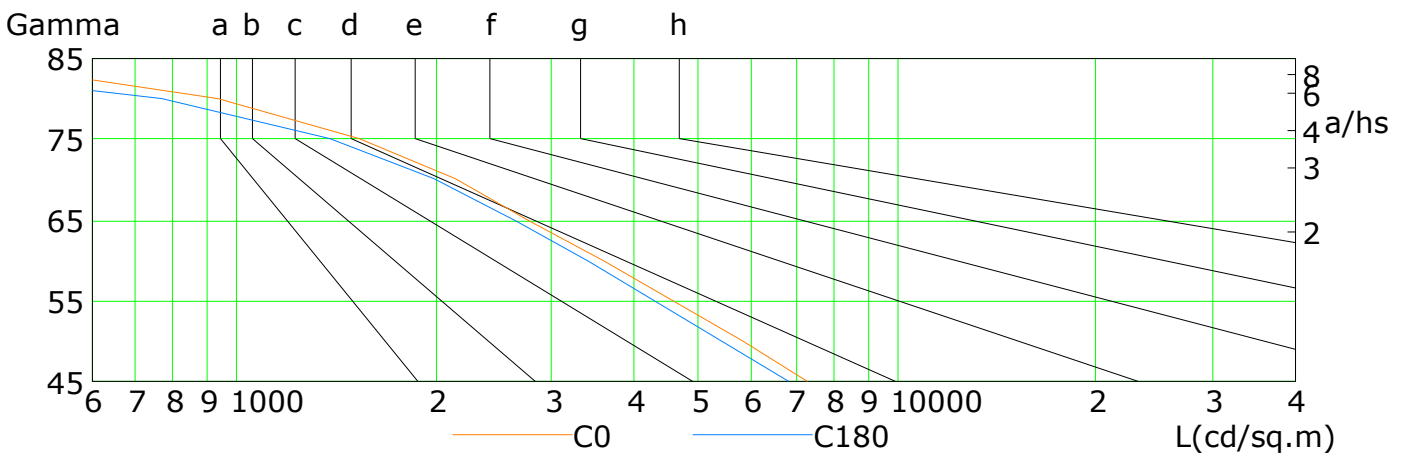
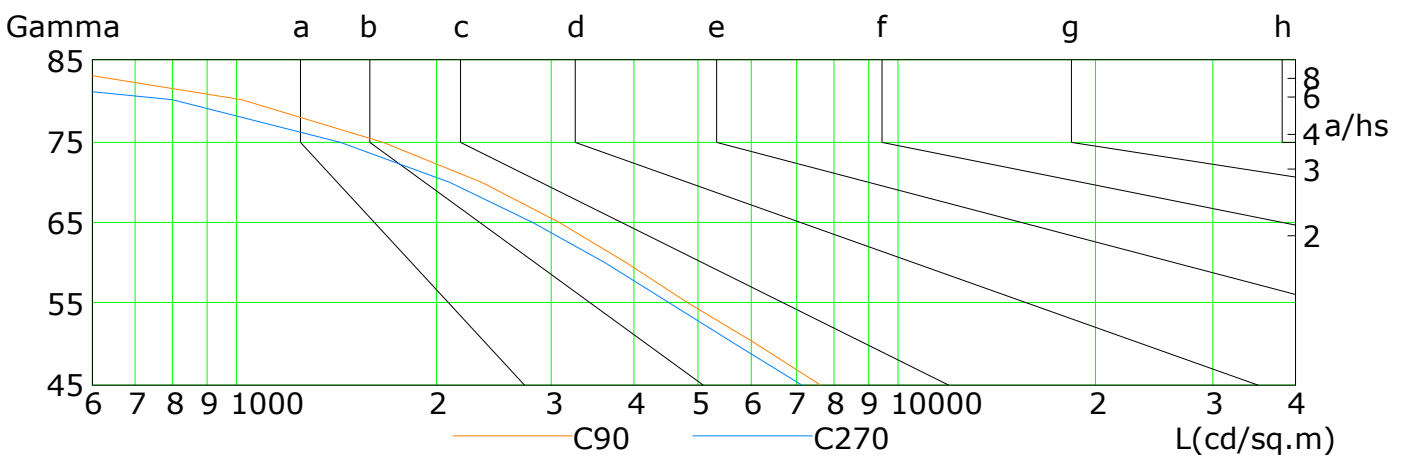
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## Lum Limit Curve

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

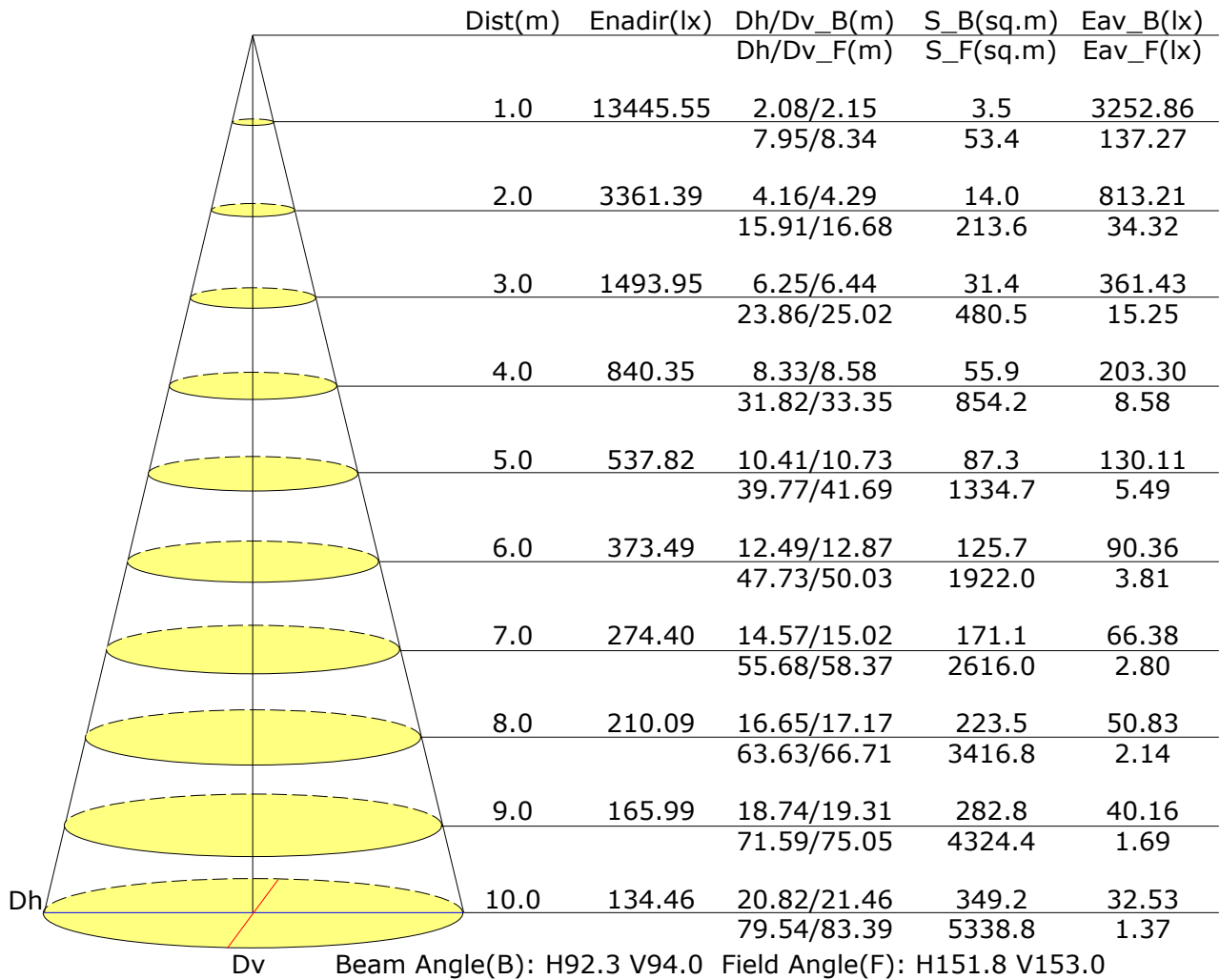


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	7331	5828	4590	3585	2780	2130	1524	936	380
C90	7671	6054	4822	3881	3077	2346	1663	1011	442
C180	6812	5404	4296	3395	2645	1987	1379	770	242
C270	7134	5612	4482	3588	2809	2099	1428	798	264

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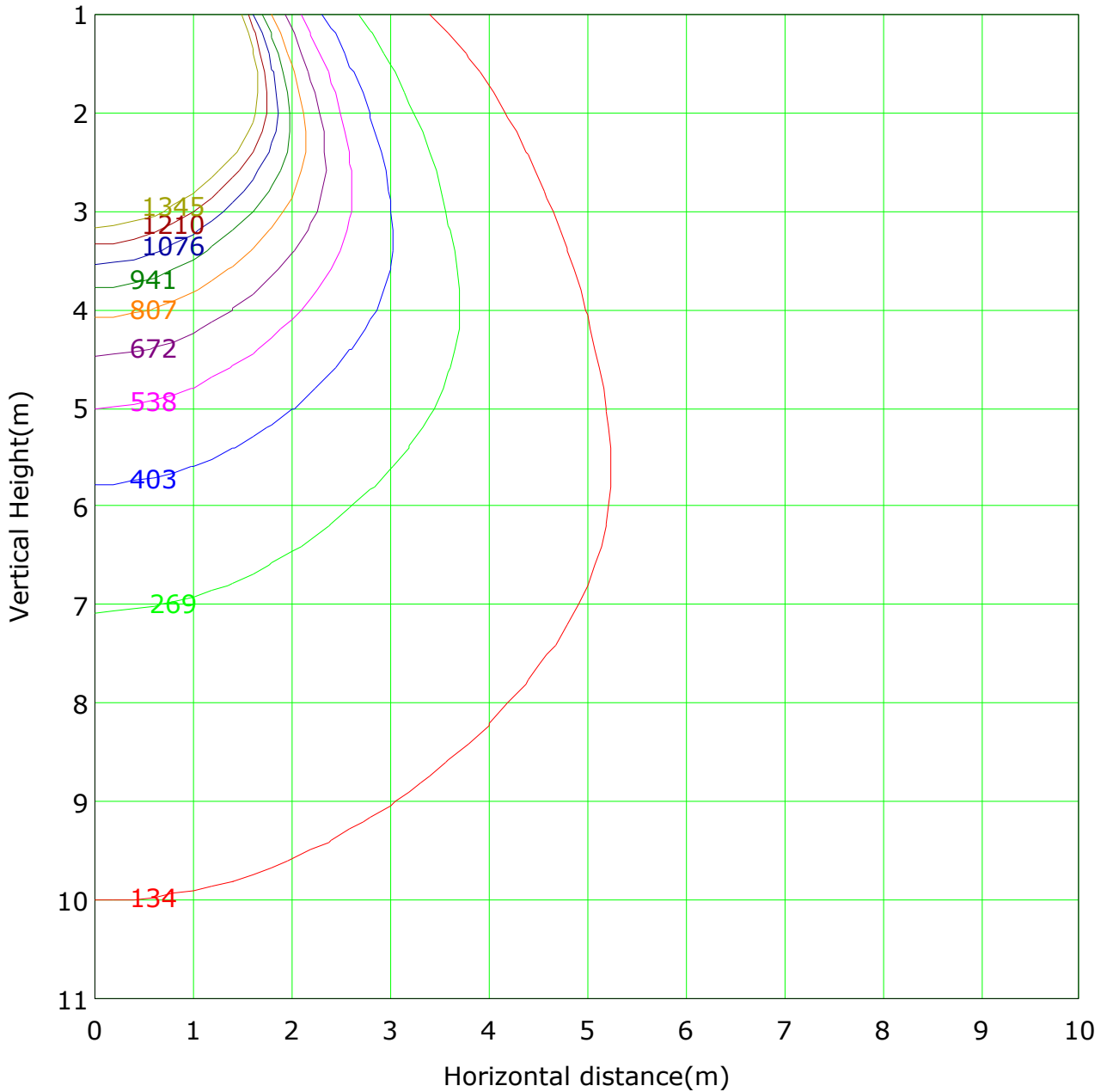
## Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5  
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 Inspector:

## Vertical IsoLux Plot



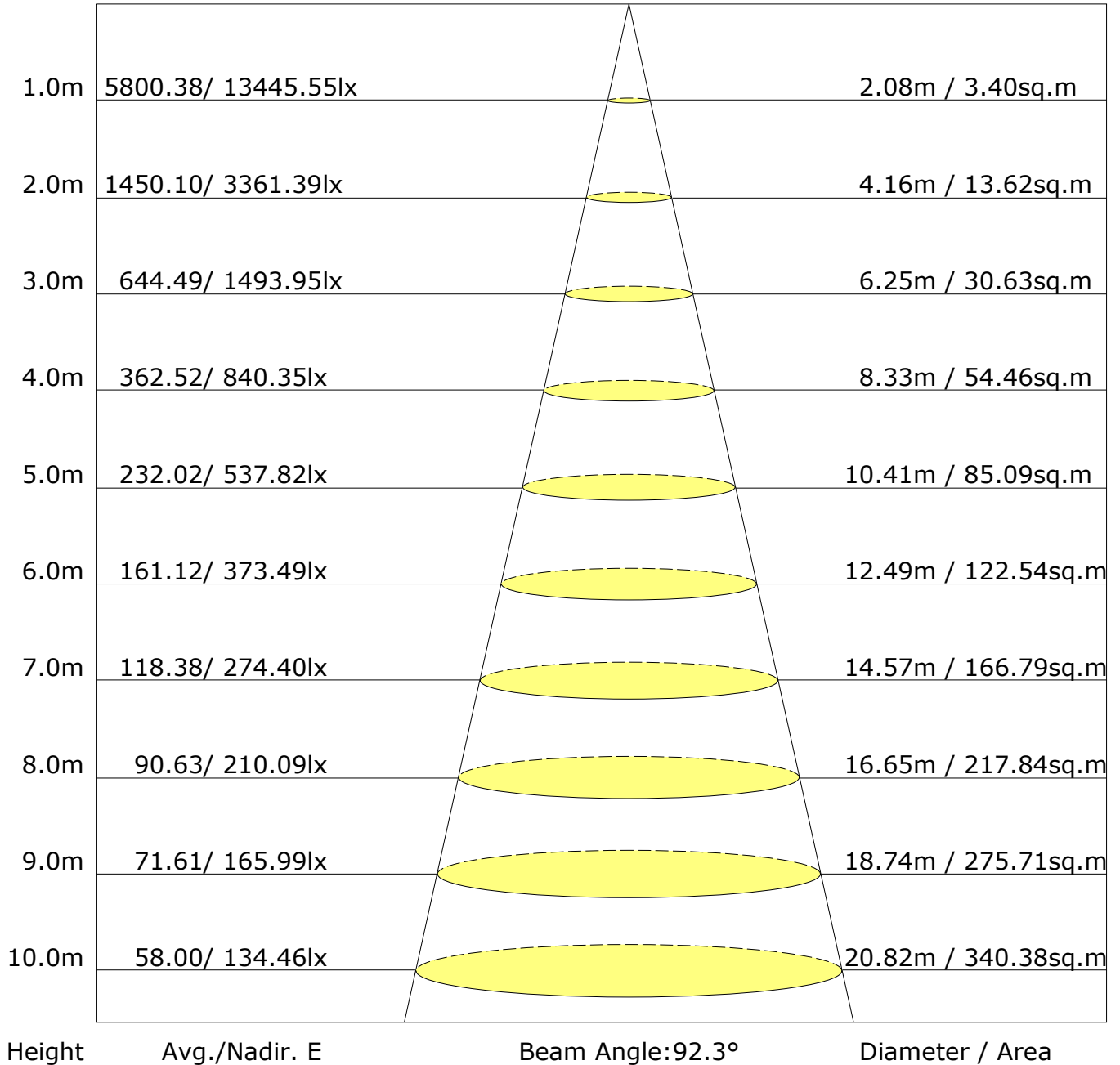
Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 13445.6 lx
— ( 1%): 134.5 lx	— ( 2%): 268.9 lx	
— ( 3%): 403.4 lx	— ( 4%): 537.8 lx	
— ( 5%): 672.3 lx	— ( 6%): 806.7 lx	
— ( 7%): 941.2 lx	— ( 8%): 1075.6 lx	
— ( 9%): 1210.1 lx	— ( 10%): 1344.6 lx	

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 Humidity:  
 Inspector:

## The Average Illuminance Effective Figure

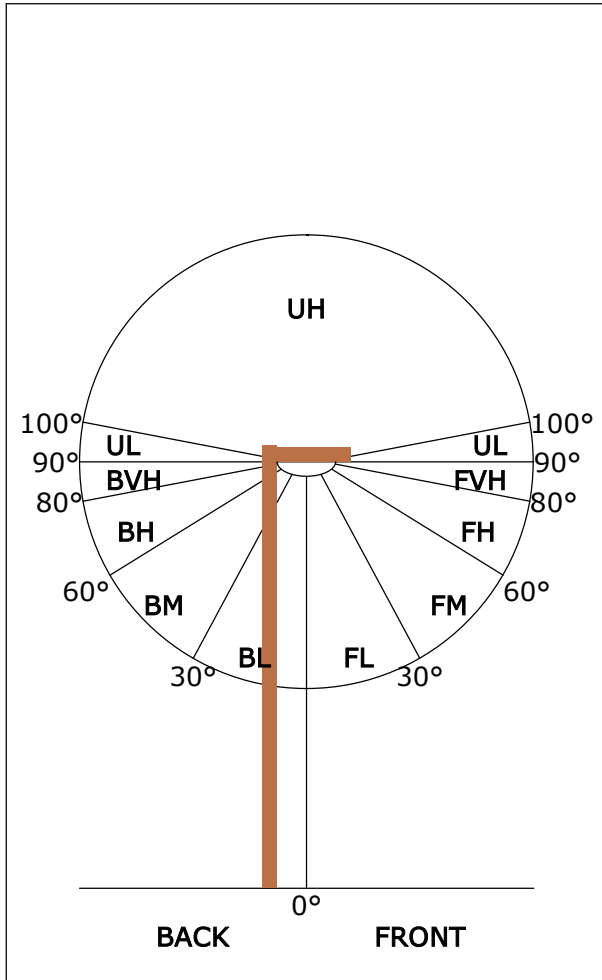
Flux Out: 19743.31lm



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 Humidity:  
 Inspector:

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



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	15578	50.7
FL ( 0°-30°)	5044	16.4
FM (30°-60°)	8017	26.1
FH (60°-80°)	2286	7.4
FVH (80°-90°)	232	0.8
BACK LIGHT	15019	48.9
BL ( 0°-30°)	4995	16.3
BM (30°-60°)	7728	25.1
BH (60°-80°)	2123	6.9
BVH (80°-90°)	173	0.6
UP LIGHT	138	0.5
UL (90°-100°)	19	0.1
UH (100°-180°)	120	0.4
TRAPPED LIGHT	0	0.0

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 G2

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