

Report No.:

Test Time: 2022/10/21 16:31

Luminaire Property

Luminaire Manufacturer: ASD LIGHTING CORP
Luminaire Modle: ASD-WHB5AZZ-160D50-20EM

Luminous Length (mm): 355
Luminous Height (mm):
Current: 1.326 A
Power Factor: 0.995

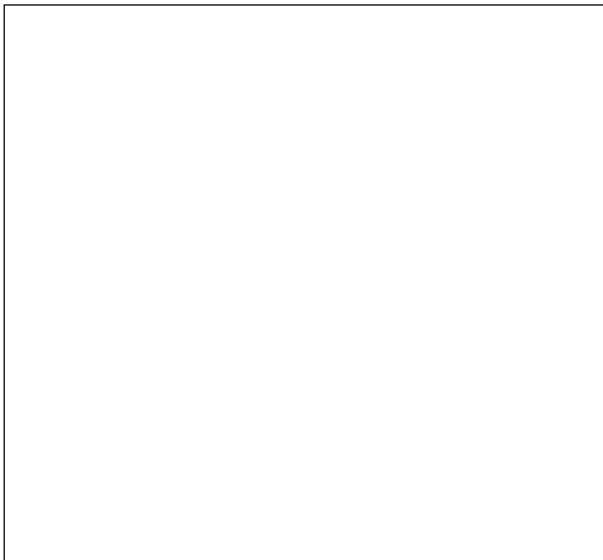
Luminous Width (mm):
Voltage: 120.0 V
Power: 159.4 W

Photometric Results

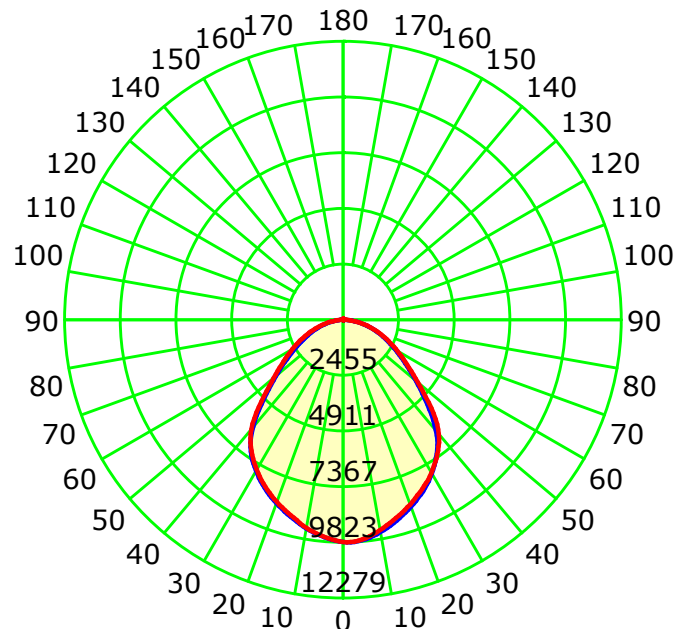
CIE Class: Direct
Measurement Flux: 22269.2 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(10%,50%): H151.3,H91.7
Vertical Diffuse Angle(10%,50%): V152.8,V93.2
Luminaire Efficacy Rating (LER): 140.67
Max. Intensity: 9823.43 cd
S/MH(C0/C180): 1.19

Total Rated Lamp Lumens: 21657 lm
Efficiency: 100%
Upward Ratio: 1%
C0r0 Intensity: 9799.7 cd
Pos of Max. Intensity: H67.5 V2
S/MH(C90/C270): 1.18

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 92.4°

— C0-C180 — C90-C270

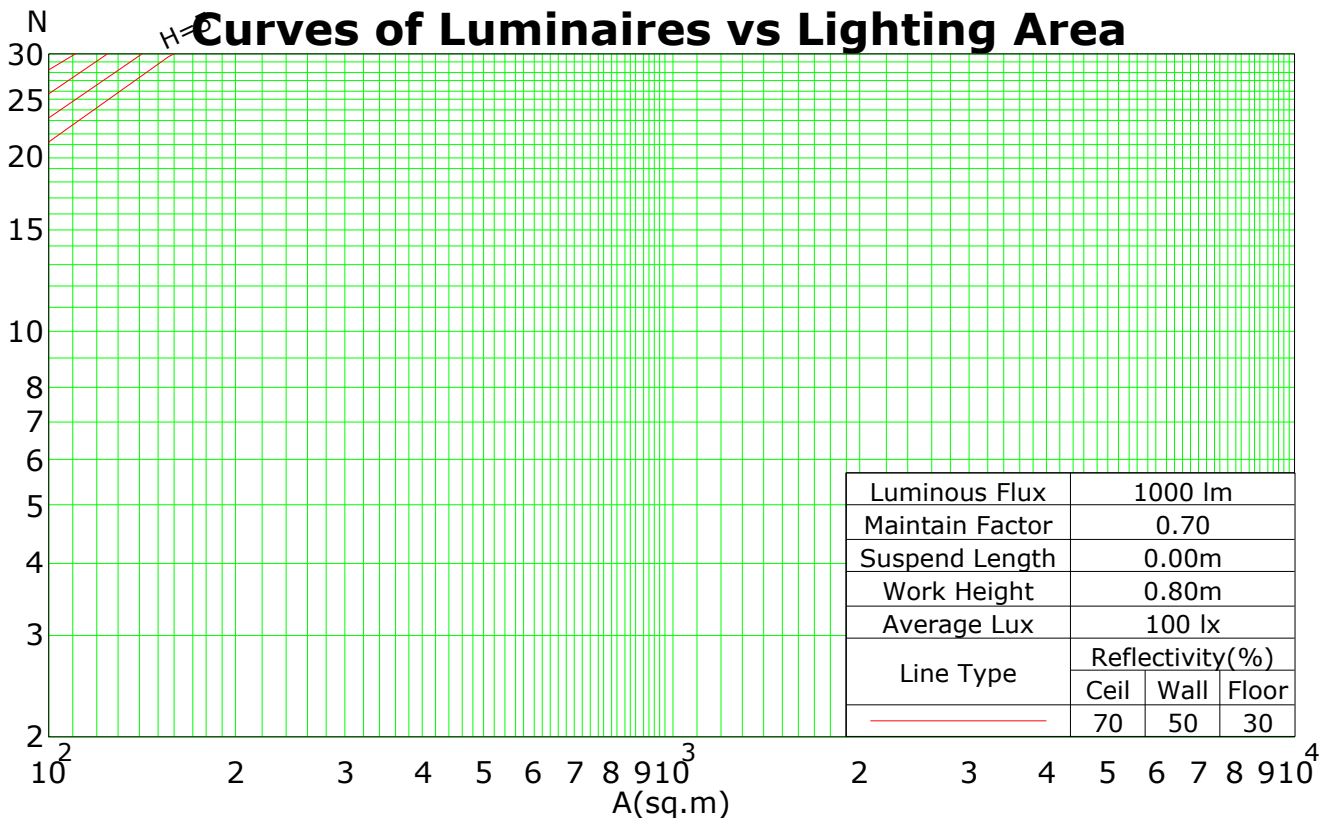
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25.8 °C
Operator:

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	1.01	1.01	1.01	0.99
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	1.00	0.93	0.87	0.81	0.98	0.91	0.85	0.80	0.87	0.83	0.78	0.84	0.80	0.76	0.81	0.78	0.75	0.73
3	0.92	0.82	0.75	0.69	0.90	0.81	0.74	0.68	0.78	0.72	0.67	0.75	0.70	0.66	0.72	0.68	0.65	0.62
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	0.76	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	0.48	0.44	0.42
7	0.68	0.55	0.47	0.41	0.66	0.54	0.46	0.40	0.52	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	0.43	0.37	0.33	0.42	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	0.39	0.34	0.30	0.28

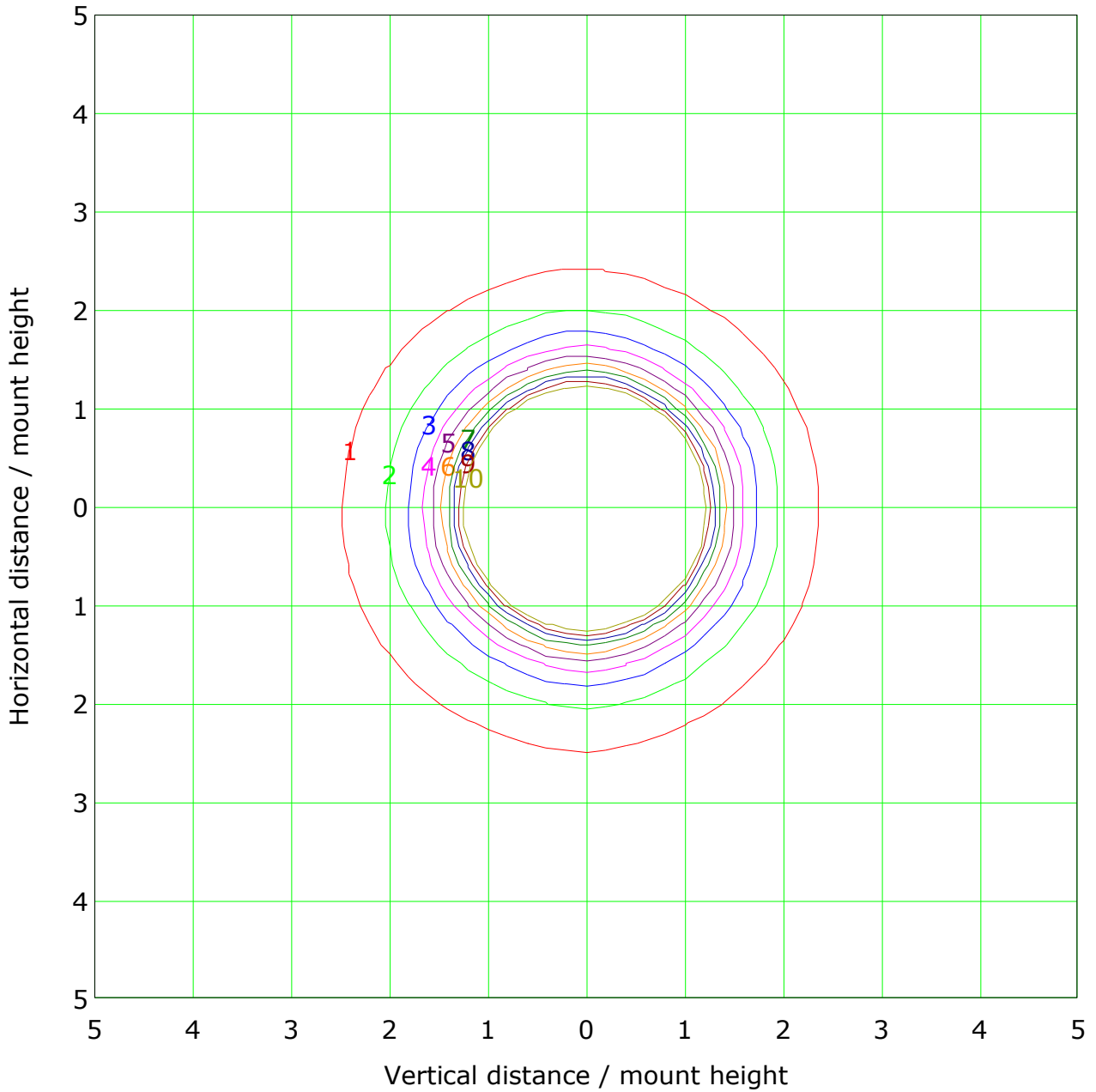
Spacing Criteria (0-180): 1.19
 Spacing Criteria (90-270): 1.18
 Spacing Criteria (Diagonal): 1.27



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IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 98.1 lx	
(1%):	1.0 lx	(2%):	2.0 lx
(3%):	2.9 lx	(4%):	3.9 lx
(5%):	4.9 lx	(6%):	5.9 lx
(7%):	6.9 lx	(8%):	7.8 lx
(9%):	8.8 lx	(10%):	9.8 lx

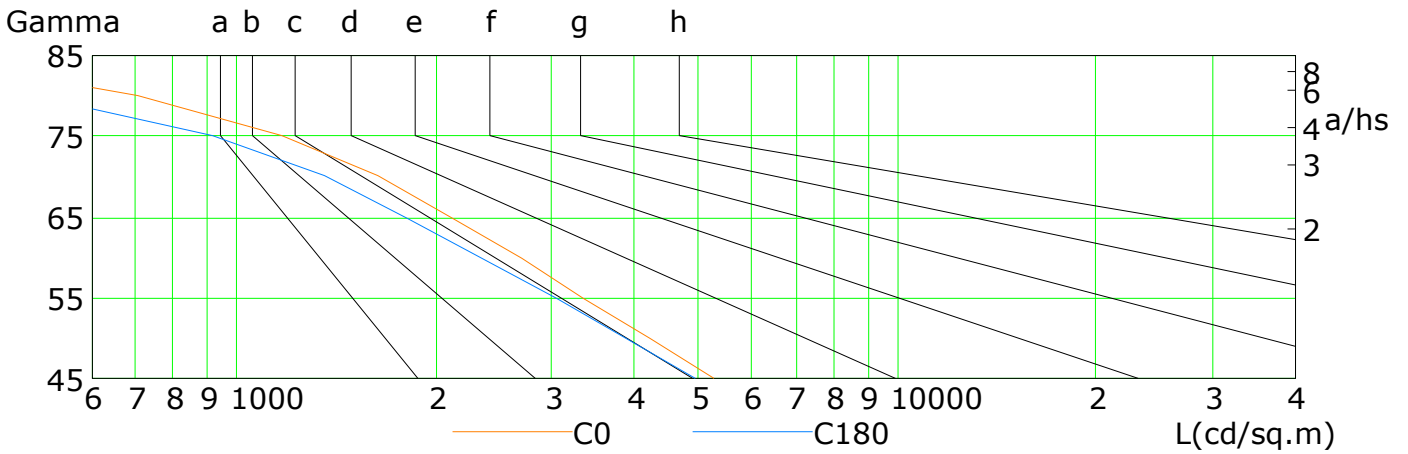
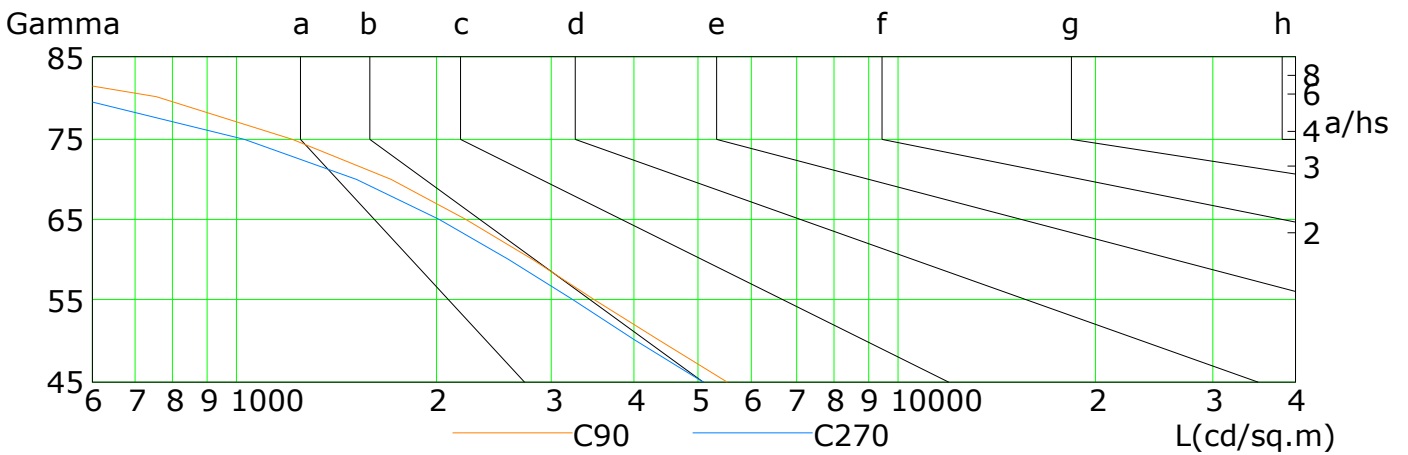
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Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
1.15	A								
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

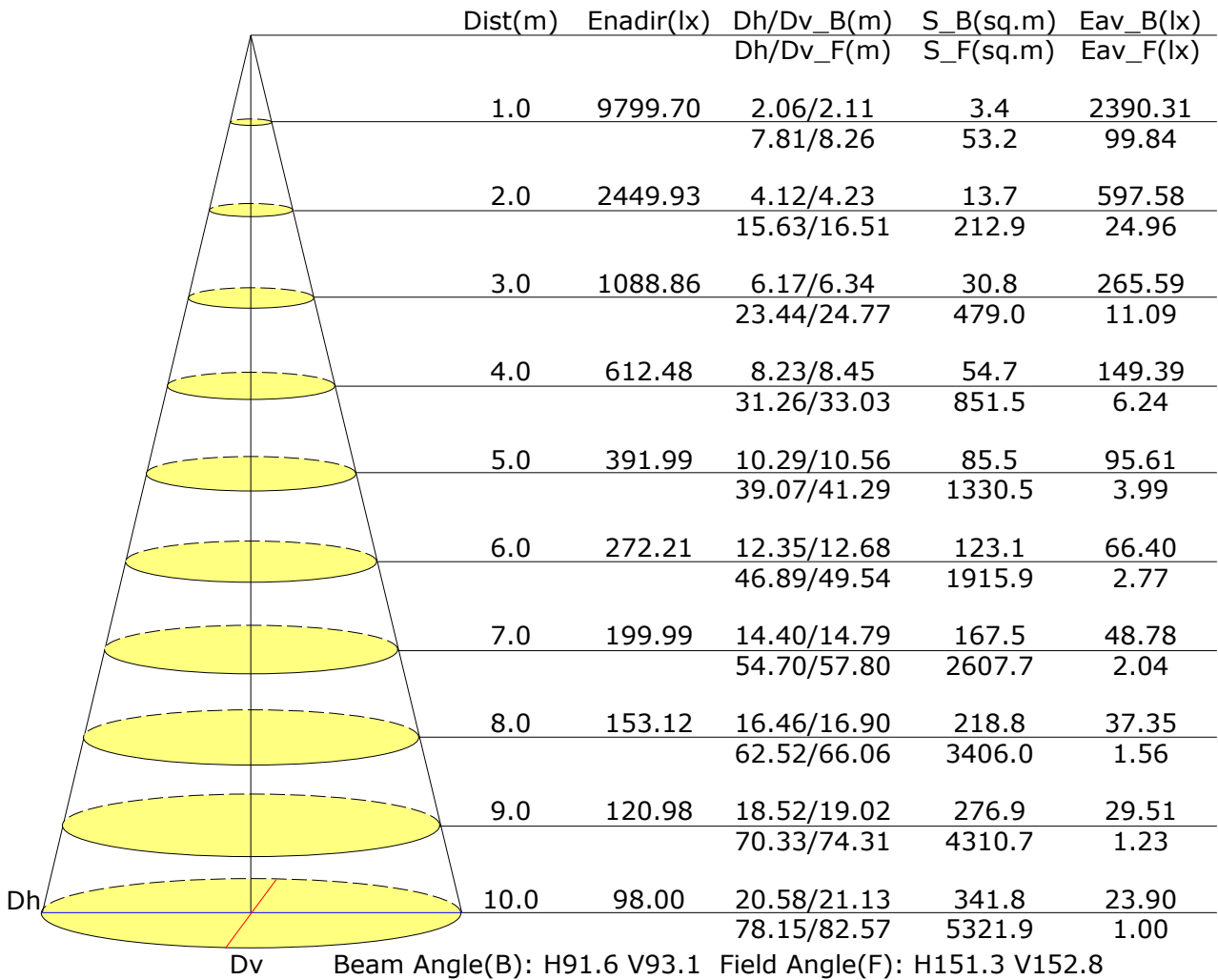


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5267	4212	3352	2690	2127	1634	1162	705	295
C90	5509	4322	3453	2785	2212	1701	1208	752	337
C180	4949	3883	3029	2351	1808	1354	920	501	132
C270	5094	4001	3208	2578	2017	1507	1019	567	200

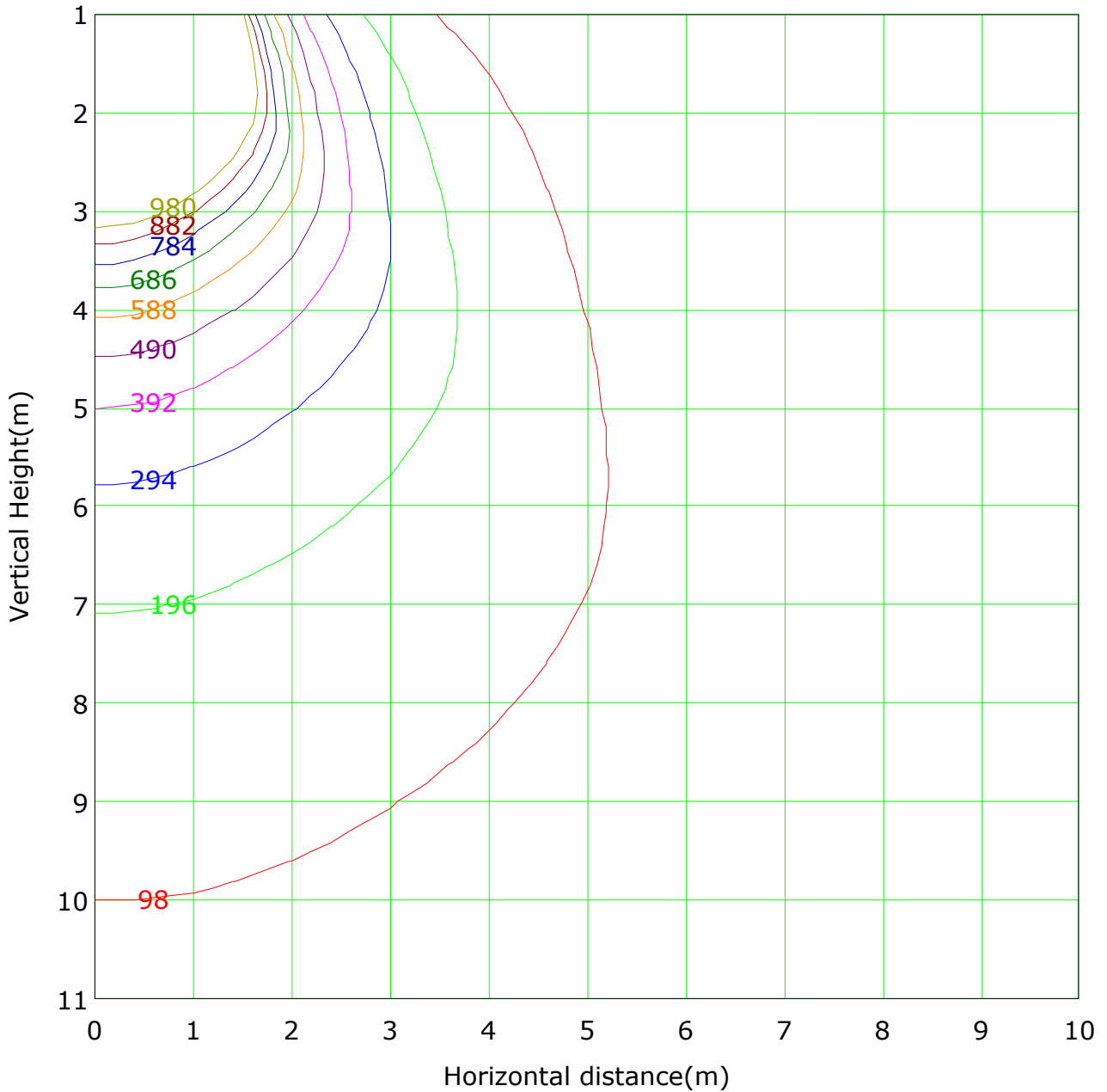
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Illuminance at a Distance



Vertical IsoLux Plot



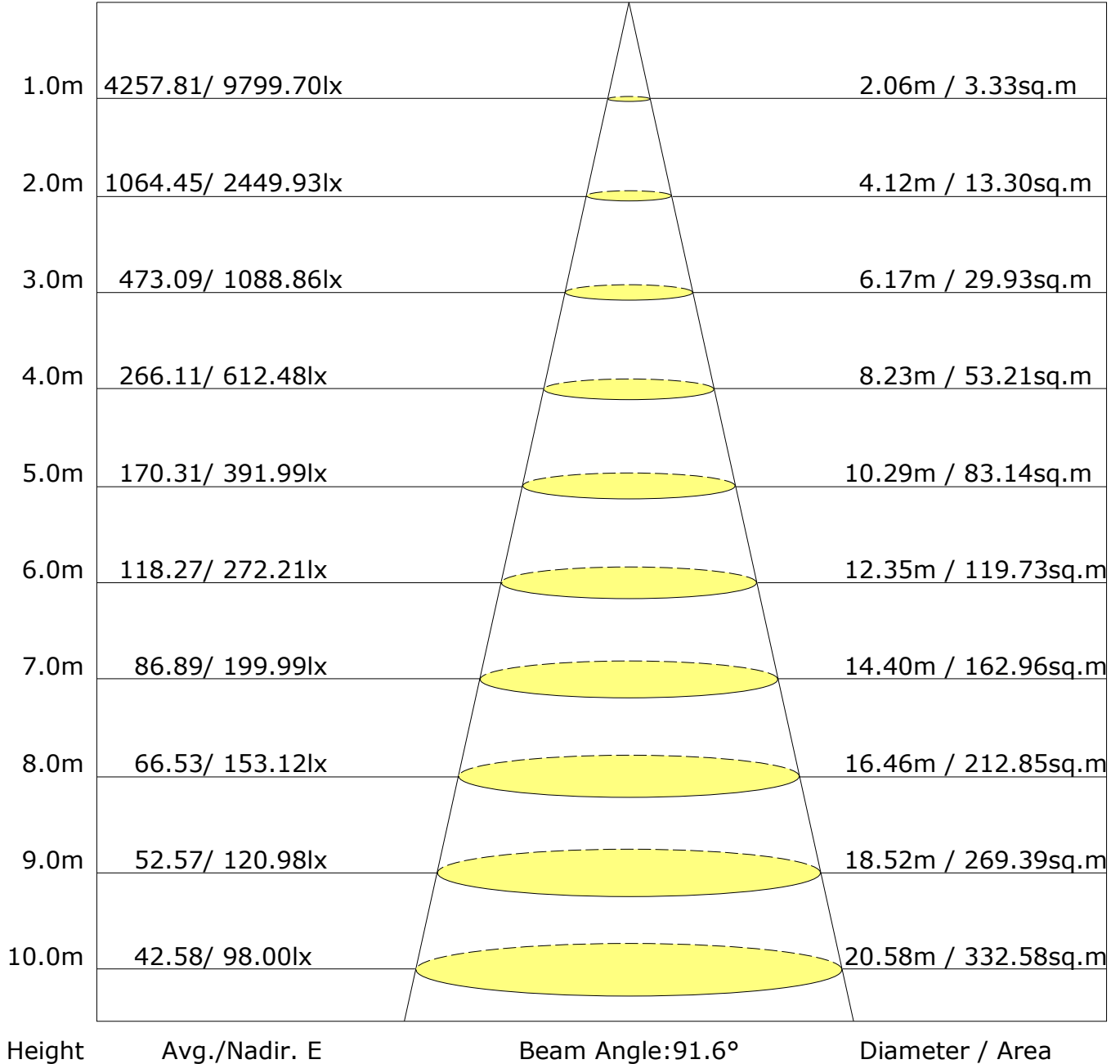
Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 9799.7 lx
(1%): 98.0 lx	(2%): 196.0 lx	
(3%): 294.0 lx	(4%): 392.0 lx	
(5%): 490.0 lx	(6%): 588.0 lx	
(7%): 686.0 lx	(8%): 784.0 lx	
(9%): 882.0 lx	(10%): 980.0 lx	

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Inspector:

The Average Illuminance Effective Figure

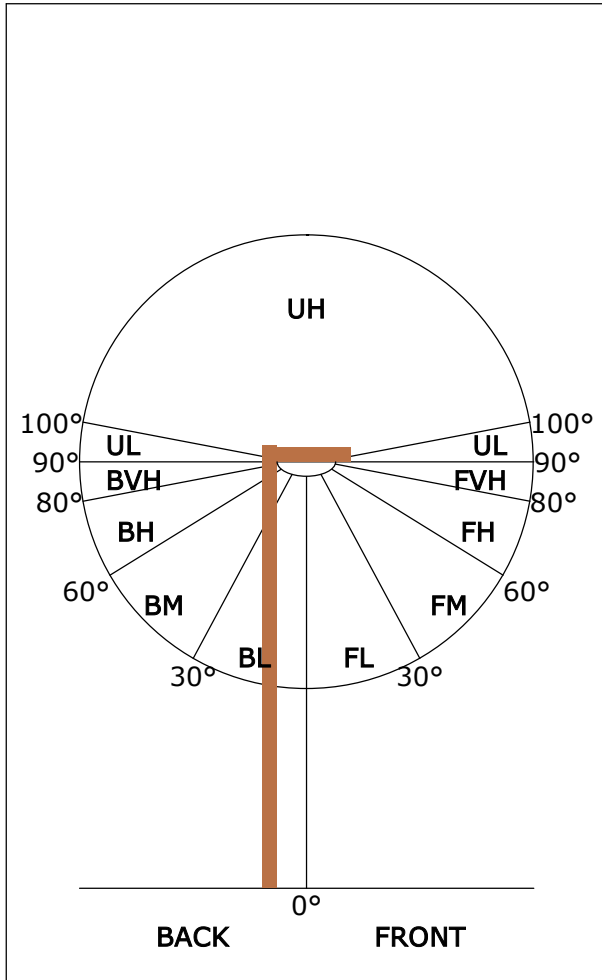
Flux Out: 14160.48lm



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 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	11266	50.6
FL (0°-30°)	3639	16.3
FM (30°-60°)	5800	26.0
FH (60°-80°)	1657	7.4
FVH (80°-90°)	170	0.8
BACK LIGHT	10860	48.8
BL (0°-30°)	3606	16.2
BM (30°-60°)	5594	25.1
BH (60°-80°)	1533	6.9
BVH (80°-90°)	127	0.6
UP LIGHT	143	0.6
UL (90°-100°)	20	0.1
UH (100°-180°)	122	0.5
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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