

Report No.:

Test Time: 2025-09-27 09:31

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: MX603R-LD60WDD-D900MM

Lamp Catalog: 120V 3500K

Number of Lamps:

Luminous Length (mm): 900

Luminous Height (mm): 85

Current: 0.237 A

Power Factor: 0.995

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 900

Voltage: 120.3 V

Power: 28.34 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 3402.3 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.1, 155.6, 155.4, 155.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 97.7, 97.8, 97.8, 97.8

Luminaire Efficacy Rating (LER): 120.10

Max. Intensity: 1401.55 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 3402.3 lm

Efficiency: 100%

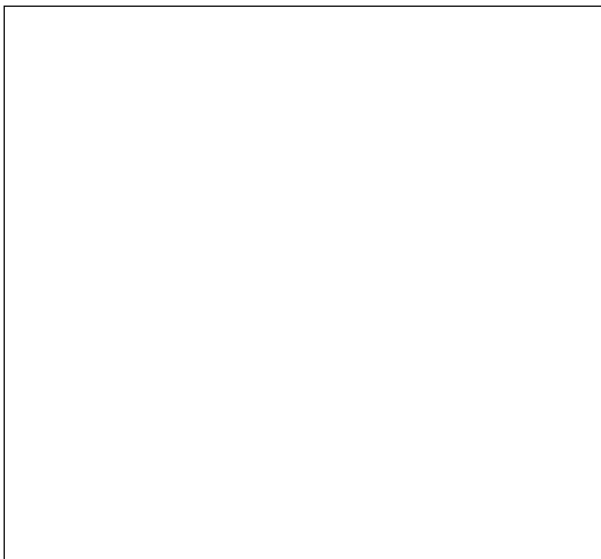
Upward Ratio: 1%

C0r0 Intensity: 1399.57 cd

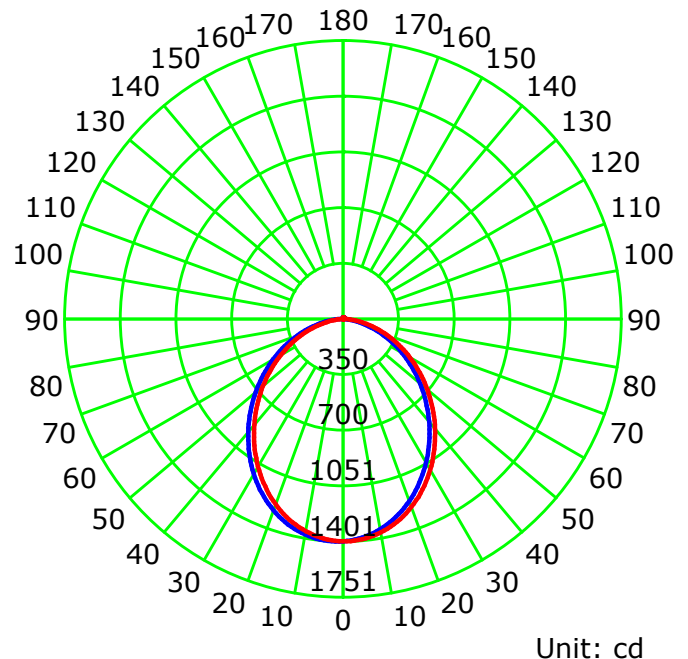
Pos of Max. Intensity: H180 V2

S/MH(C90/C270): 1.16

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

— C0-C180 — C90-C270

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 13.500 m [K=1.0000]

Humidity:

Inspector:

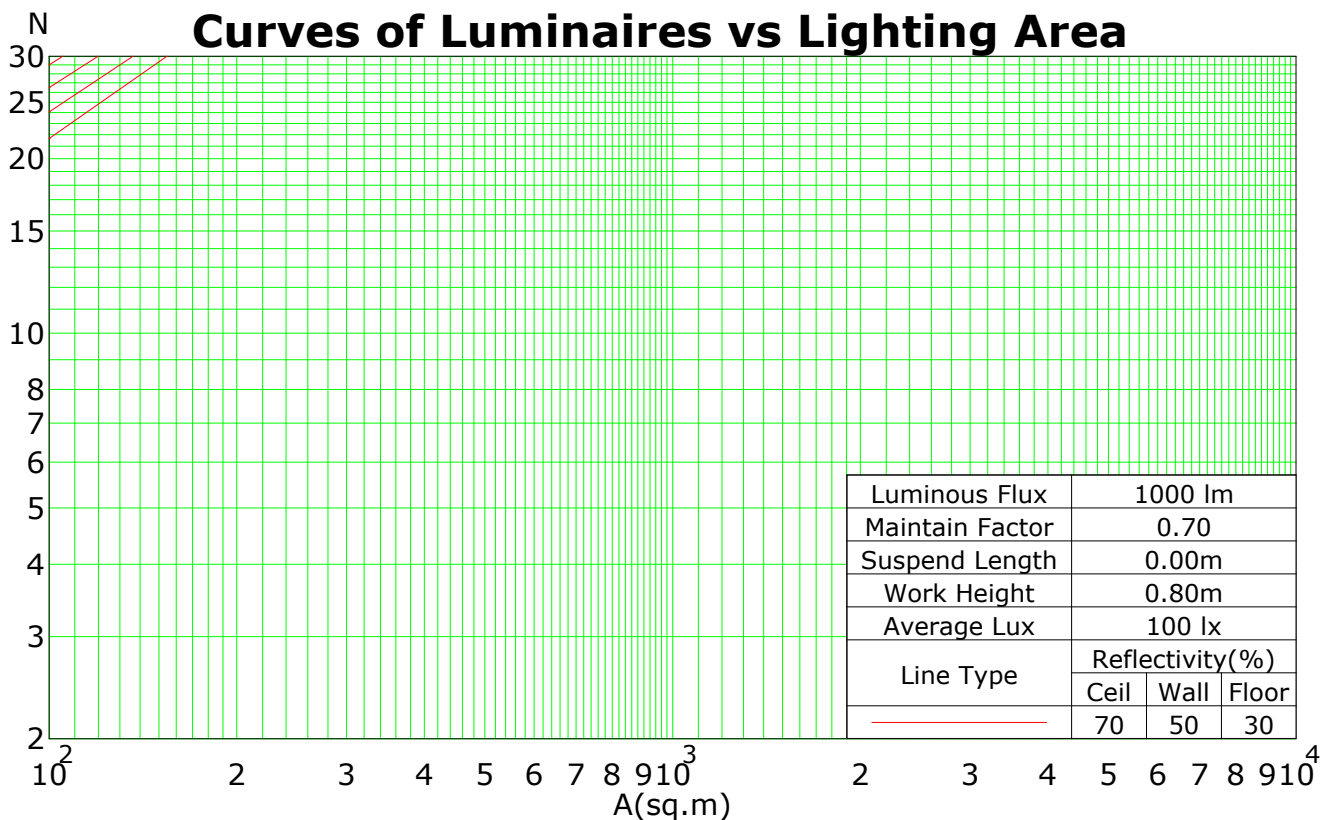
## Coefficients Of Utilization - Zonal Cavity Method

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	1.09	1.05	1.01	0.97	1.06	1.02	0.99	0.95	0.98	0.95	0.92	0.94	0.92	0.89	0.90	0.88	0.87	0.85
2	1.00	0.92	0.85	0.80	0.97	0.90	0.84	0.79	0.86	0.81	0.77	0.83	0.79	0.75	0.80	0.76	0.73	0.71
3	0.91	0.81	0.73	0.67	0.89	0.80	0.72	0.66	0.77	0.70	0.65	0.74	0.68	0.64	0.71	0.67	0.63	0.61
4	0.84	0.72	0.64	0.57	0.82	0.71	0.63	0.57	0.68	0.61	0.56	0.66	0.60	0.55	0.64	0.59	0.54	0.52
5	0.77	0.65	0.56	0.50	0.75	0.64	0.56	0.49	0.62	0.54	0.49	0.60	0.53	0.48	0.58	0.52	0.48	0.46
6	0.72	0.59	0.50	0.44	0.70	0.58	0.49	0.43	0.56	0.48	0.43	0.54	0.48	0.43	0.52	0.47	0.42	0.40
7	0.66	0.53	0.45	0.39	0.65	0.52	0.44	0.39	0.51	0.44	0.38	0.49	0.43	0.38	0.48	0.42	0.38	0.36
8	0.62	0.49	0.40	0.35	0.60	0.48	0.40	0.35	0.47	0.40	0.34	0.45	0.39	0.34	0.44	0.38	0.34	0.32
9	0.58	0.45	0.37	0.31	0.57	0.44	0.37	0.31	0.43	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.31	0.29
10	0.54	0.42	0.34	0.29	0.53	0.41	0.34	0.29	0.40	0.33	0.28	0.39	0.33	0.28	0.38	0.32	0.28	0.26

Spacing Criteria (0-180): 1.16

Spacing Criteria (90-270): 1.16

Spacing Criteria (Diagonal): 1.27



C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

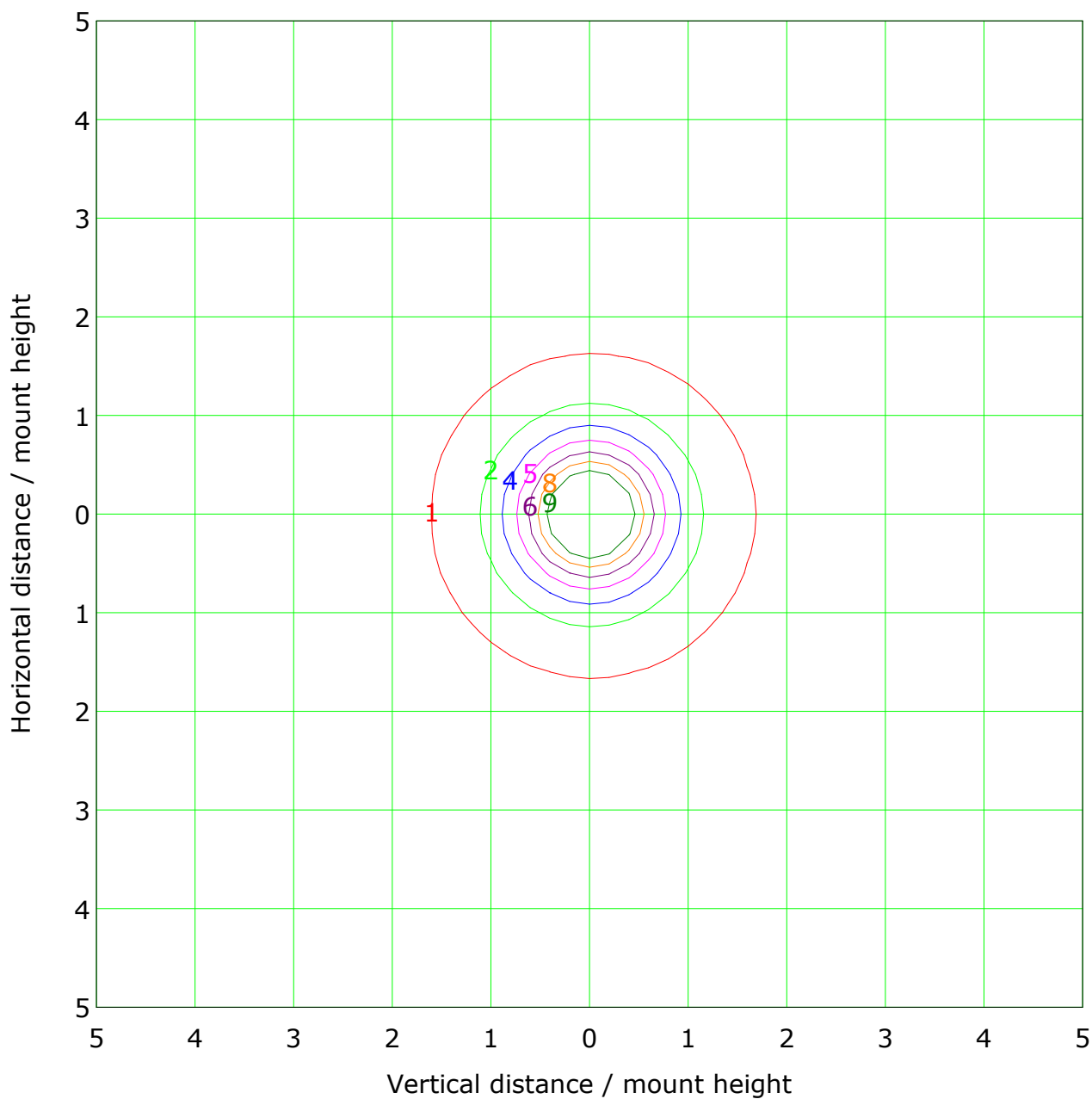
Test Device: GPM-1600L

Distance: 13.500 m [K=1.0000]

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 14.0 lx	
— ( 5%):	0.7 lx	— ( 15%):	2.1 lx
— ( 25%):	3.5 lx	— ( 35%):	4.9 lx
— ( 45%):	6.3 lx	— ( 55%):	7.7 lx
— ( 65%):	9.1 lx		

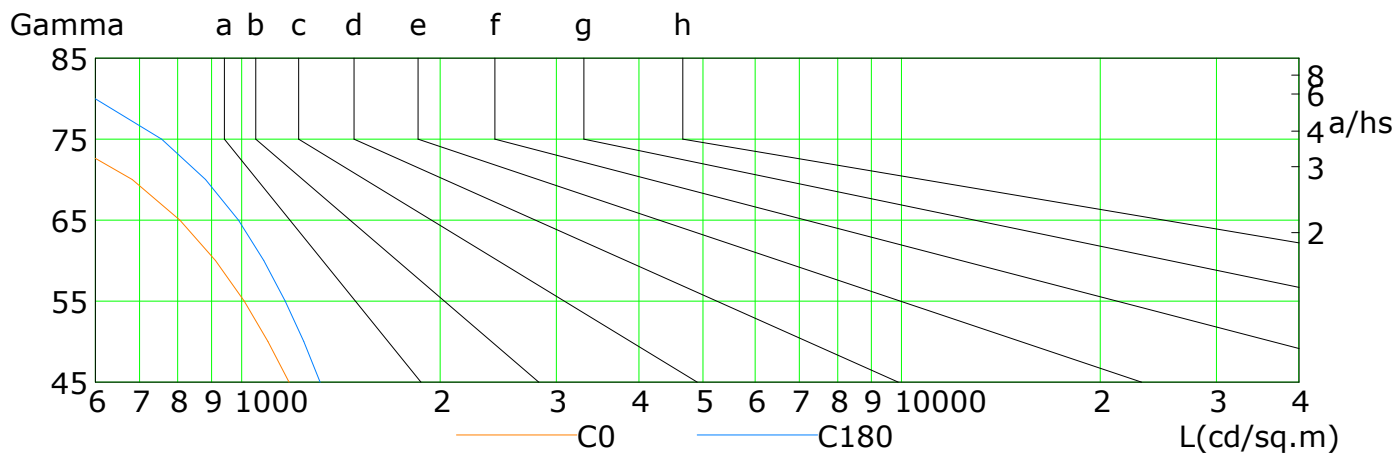
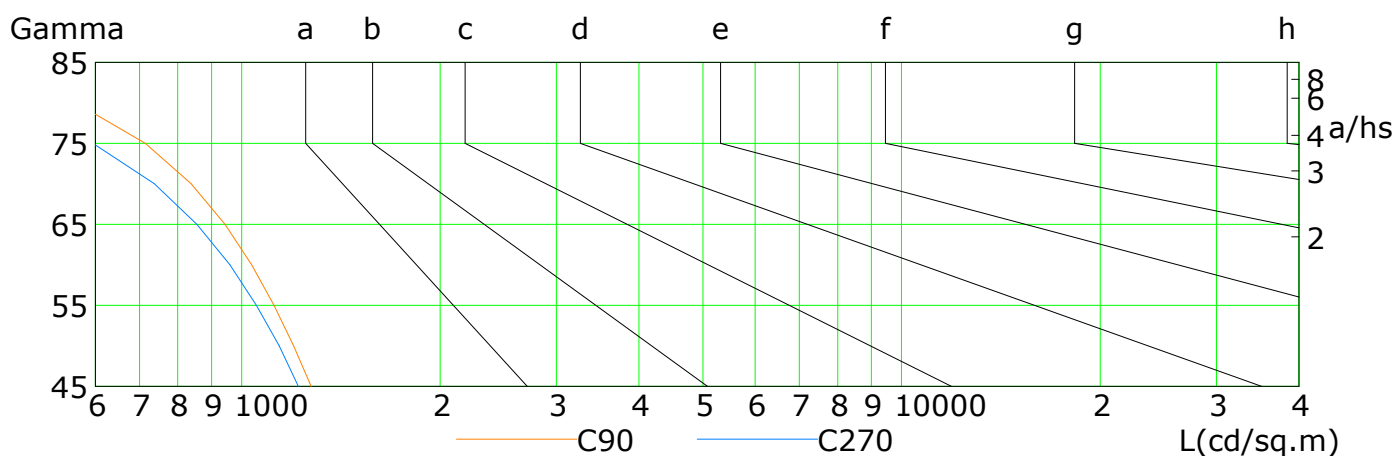
C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 13.500 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	1180	1096	1009	913	806	683	534	351	98
C90	1274	1198	1120	1036	943	838	715	561	342
C180	1315	1242	1164	1081	989	882	756	599	385
C270	1219	1140	1053	960	855	738	595	422	167

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

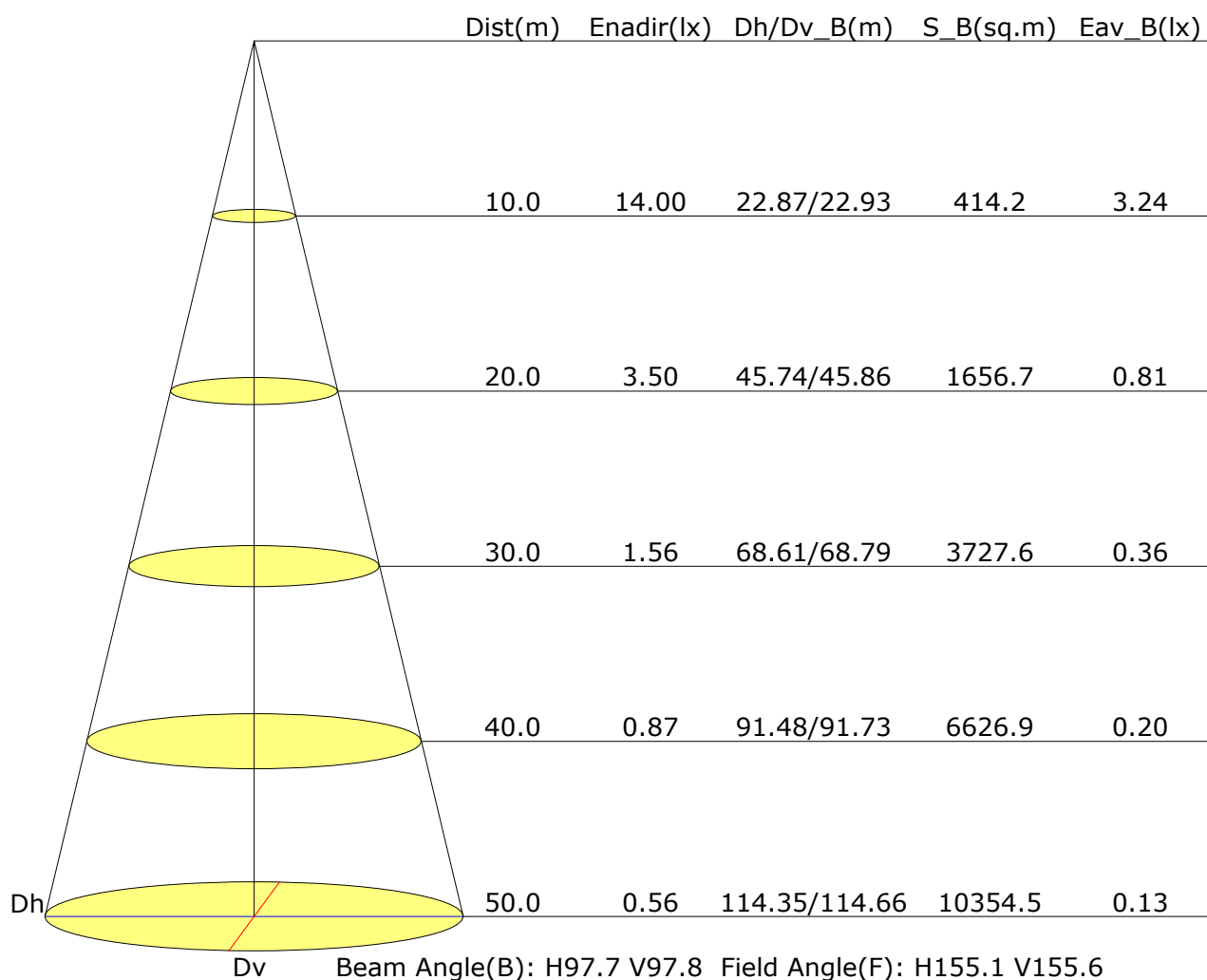
Test Device: GPM-1600L

Distance: 13.500 m [K=1.0000]

Humidity:

Inspector:

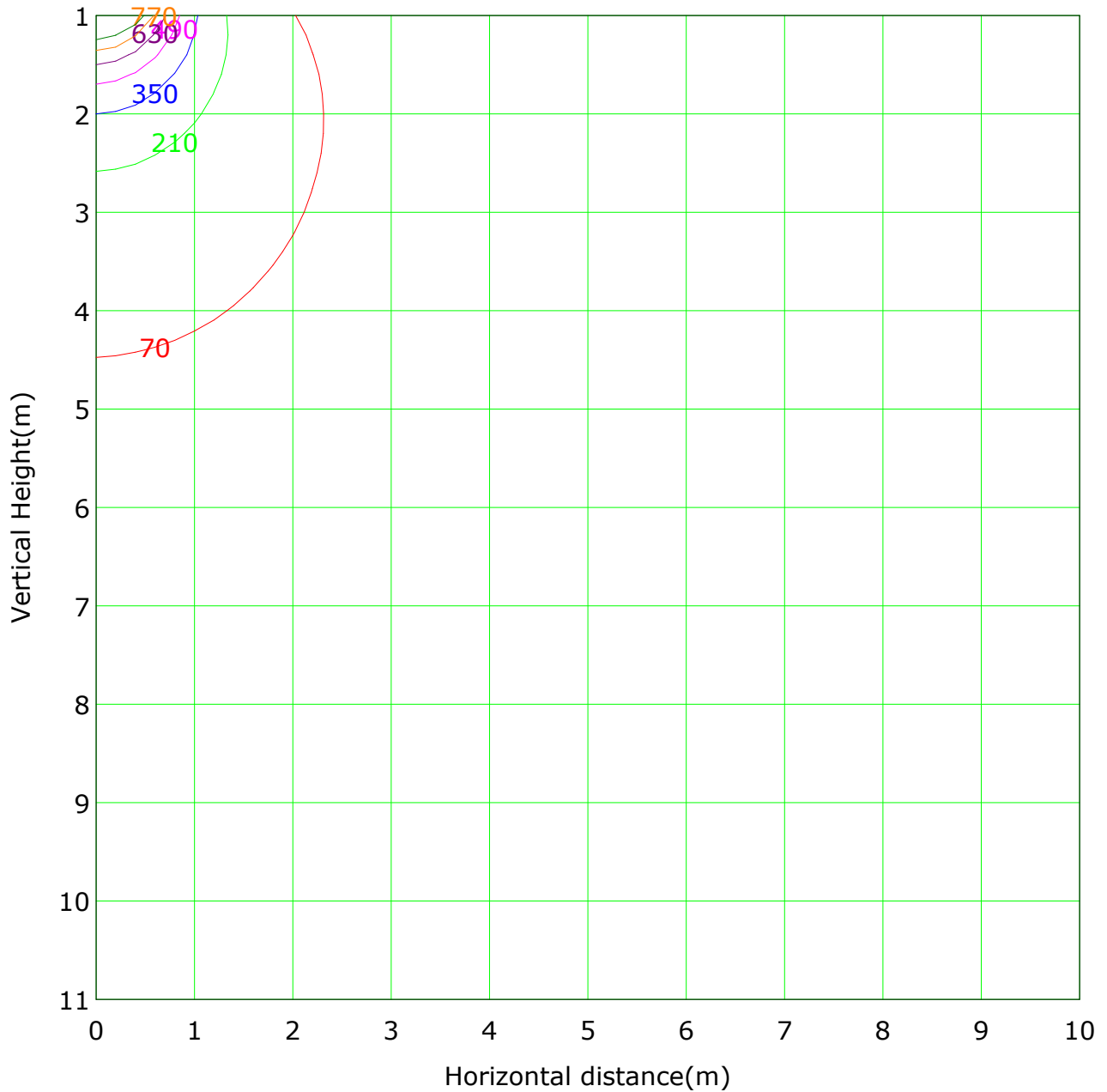
## Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 13.500 m [K=1.0000]  
Humidity:  
Inspector:

## Vertical IsoLux Plot



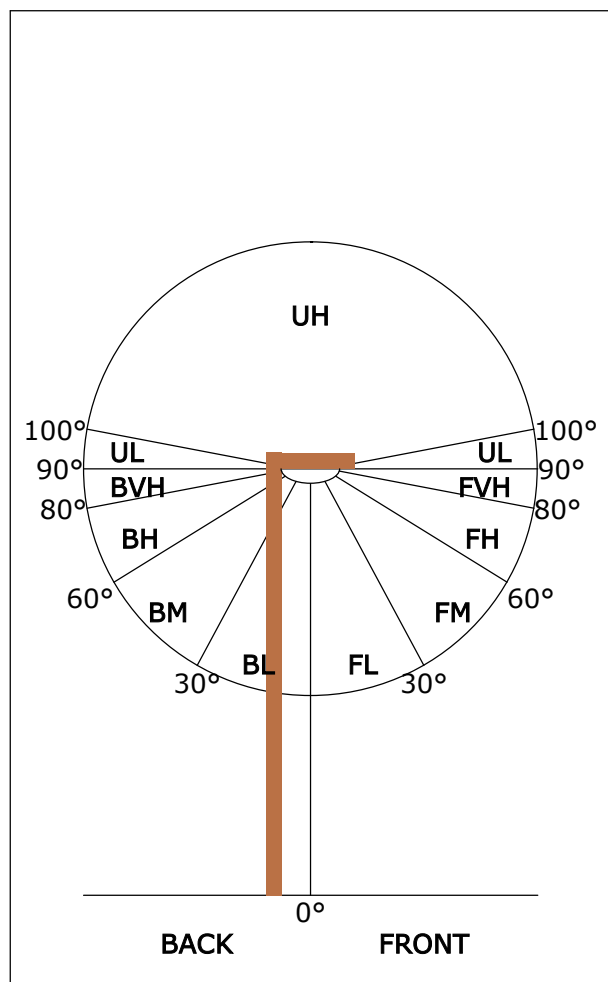
Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 1399.6 lx

( 5%): 70.0 lx	( 15%): 209.9 lx
( 25%): 349.9 lx	( 35%): 489.8 lx
( 45%): 629.8 lx	( 55%): 769.8 lx
( 65%): 909.7 lx	

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 13.500 m [K=1.0000]  
Humidity:  
Inspector:

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



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	1715	50.4
FL ( 0°-30°)	523	15.4
FM (30°-60°)	875	25.7
FH (60°-80°)	290	8.5
FVH (80°-90°)	26	0.8
BACK LIGHT	1668	49.0
BL ( 0°-30°)	519	15.3
BM (30°-60°)	857	25.2
BH (60°-80°)	272	8.0
BVH (80°-90°)	20	0.6
UP LIGHT	20	0.6
UL (90°-100°)	0	0.0
UH (100°-180°)	20	0.6
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U2 G1

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Test Lab:  
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Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 13.500 m [K=1.0000]  
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Inspector: