

Report No.:

Test Time: 2025-09-27 09:43

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: MX603R-LD60WDD-D900MM

Lamp Catalog: 120V 4000K

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: 28.35 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 3427.4 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.1, 155.7, 155.5, 155.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 97.7, 97.9, 97.8, 97.8

Luminaire Efficacy Rating (LER): 120.95

Max. Intensity: 1409.69 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 3427.4 lm

Efficiency: 100%

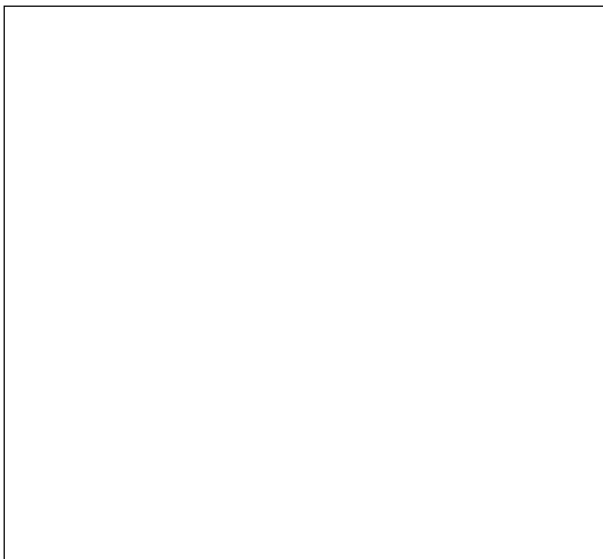
Upward Ratio: 1%

C0r0 Intensity: 1407.68 cd

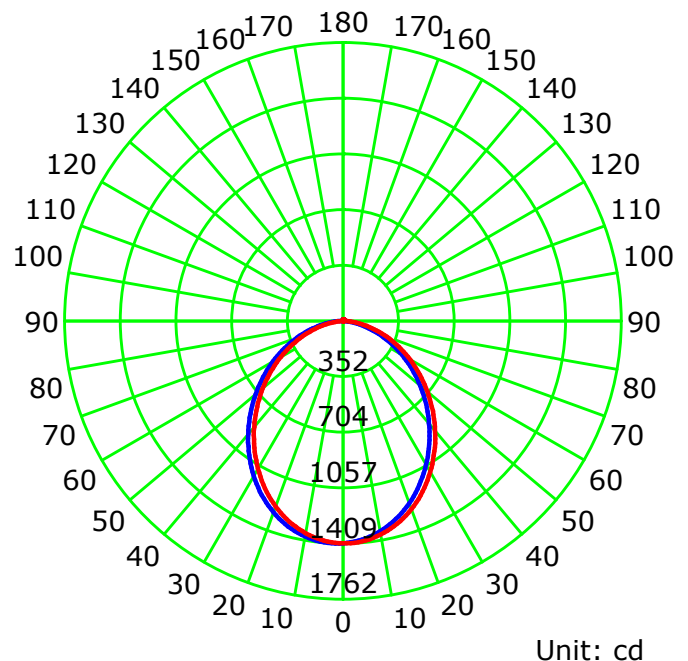
Pos of Max. Intensity: H180 V2

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:

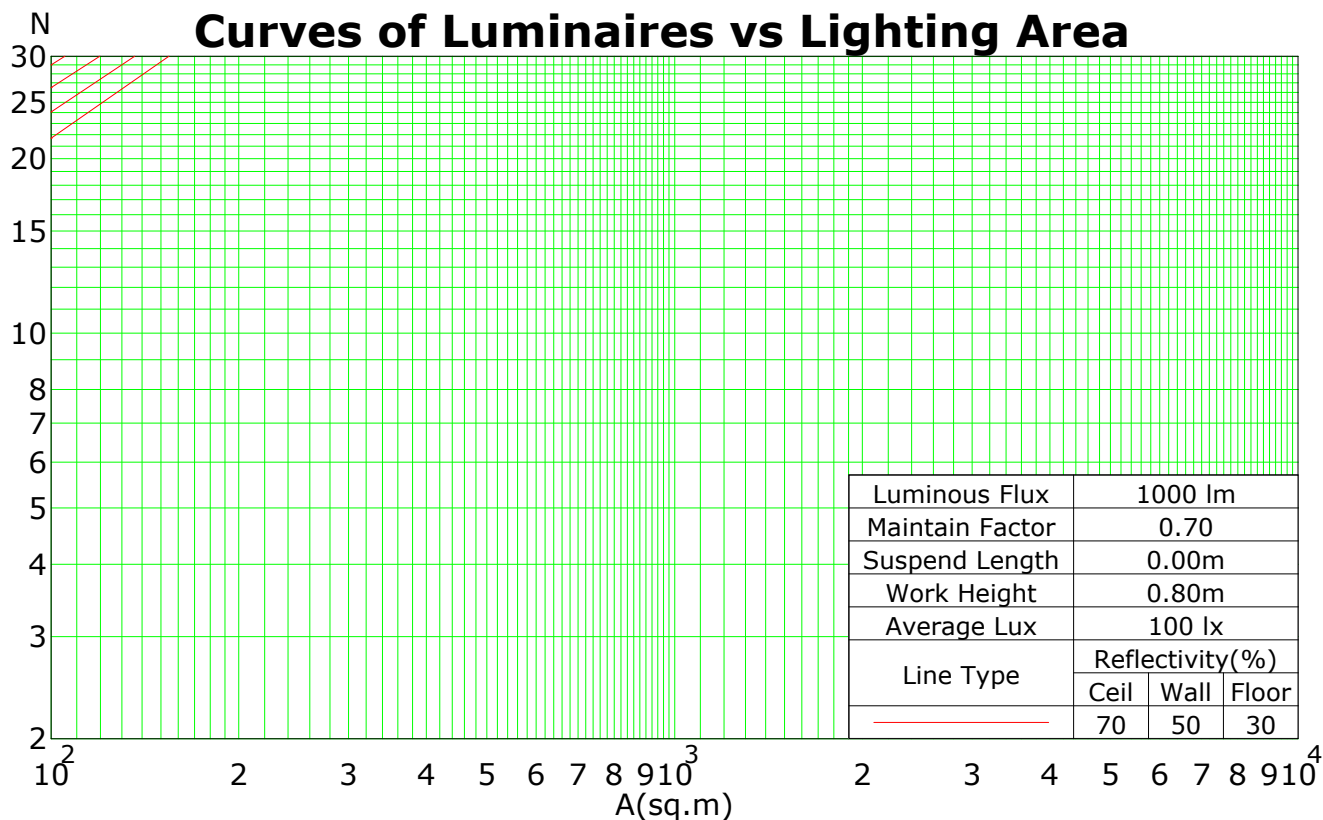
## Coefficients Of Utilization - Zonal Cavity Method

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	1.01	1.01	1.01	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	0.84
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	0.76	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	0.59	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	0.41	0.34	0.29	0.53	0.41	0.34	0.28	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

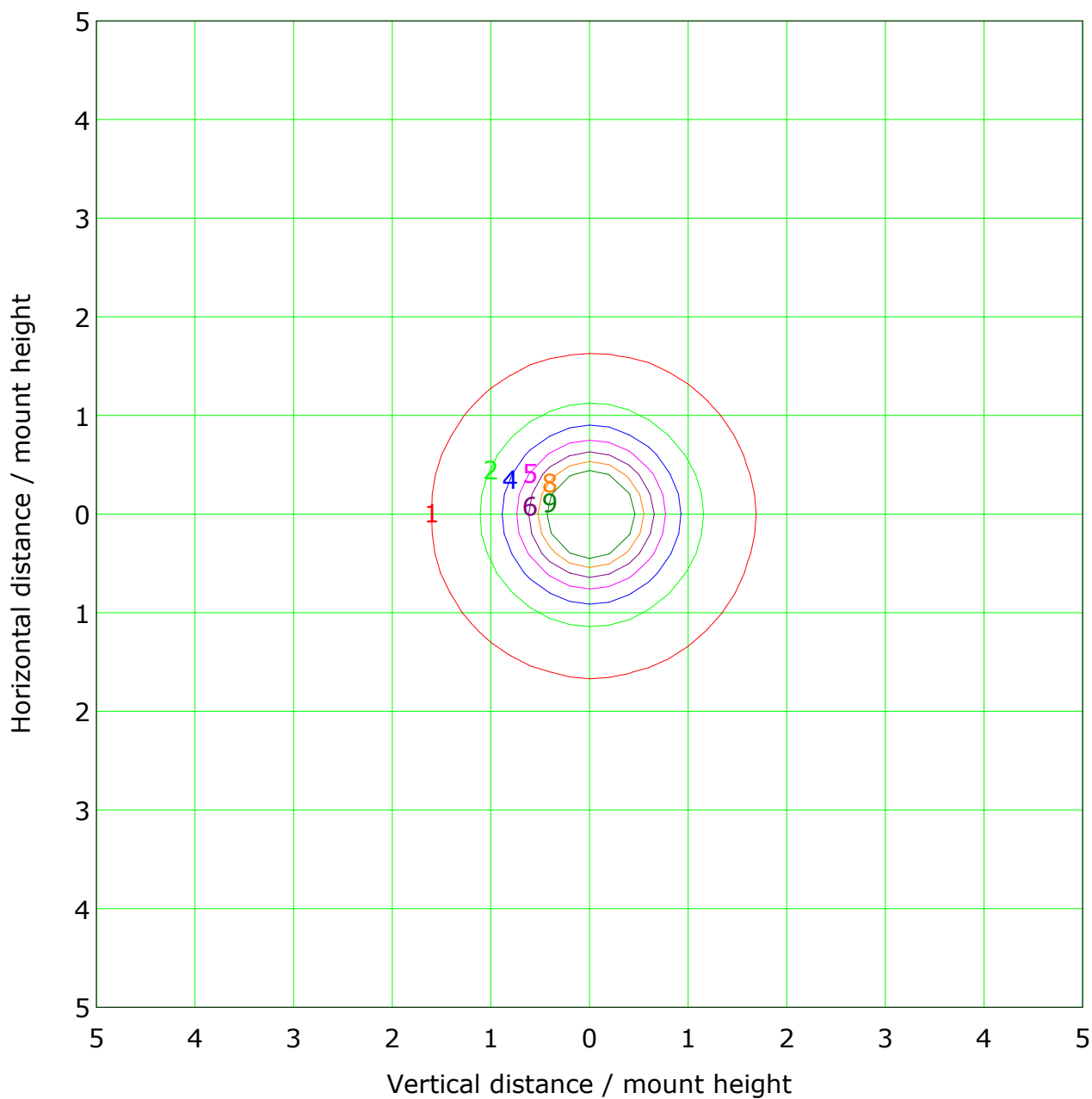
Test Device: GPM-1600L

Distance: 13.500 m [K=1.0000]

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 14.1 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%):	9.2 lx		

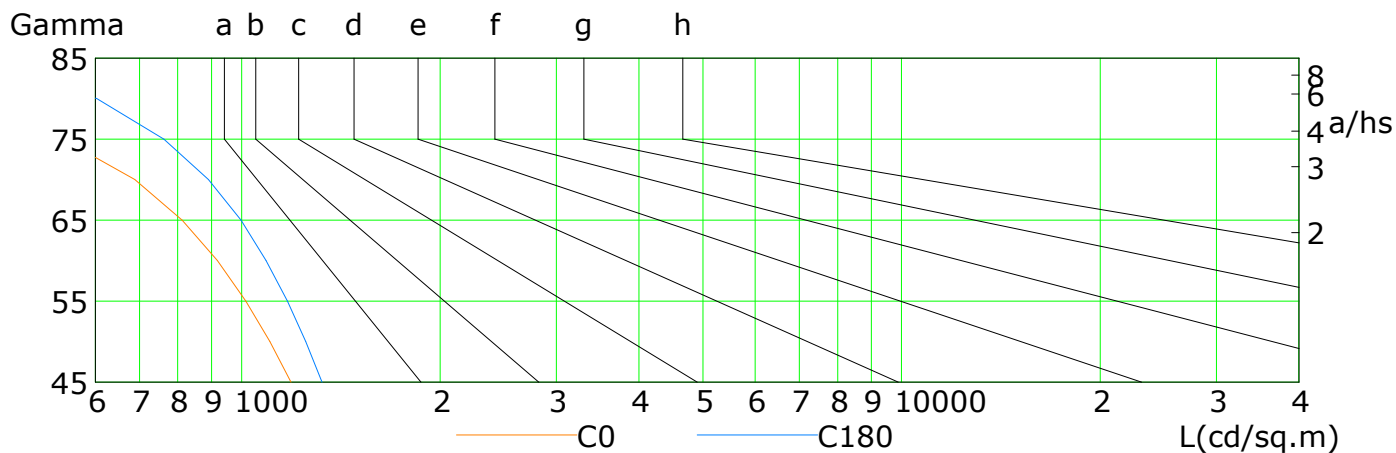
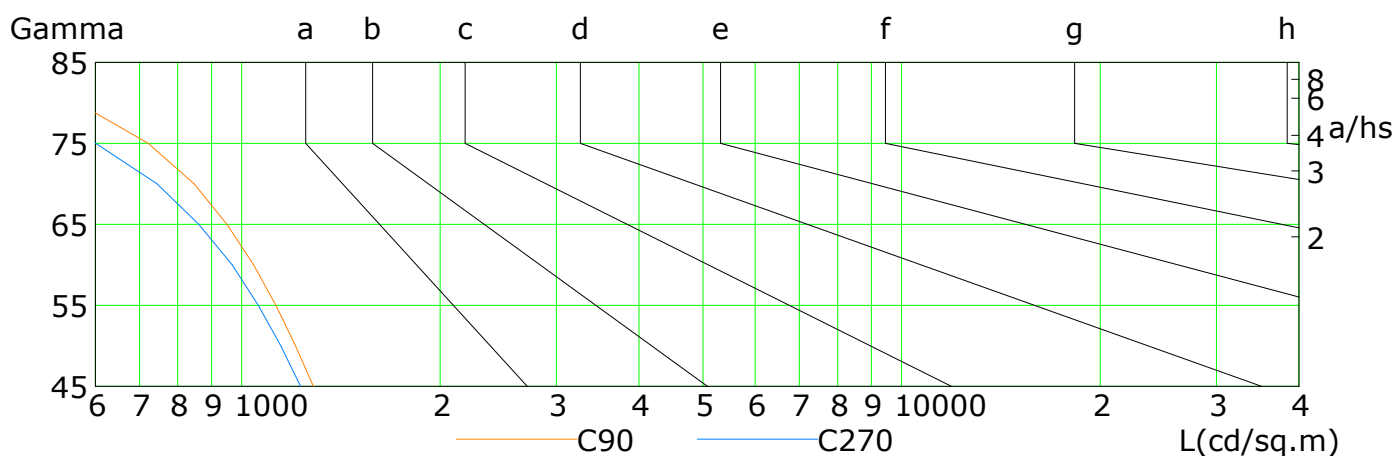
C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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

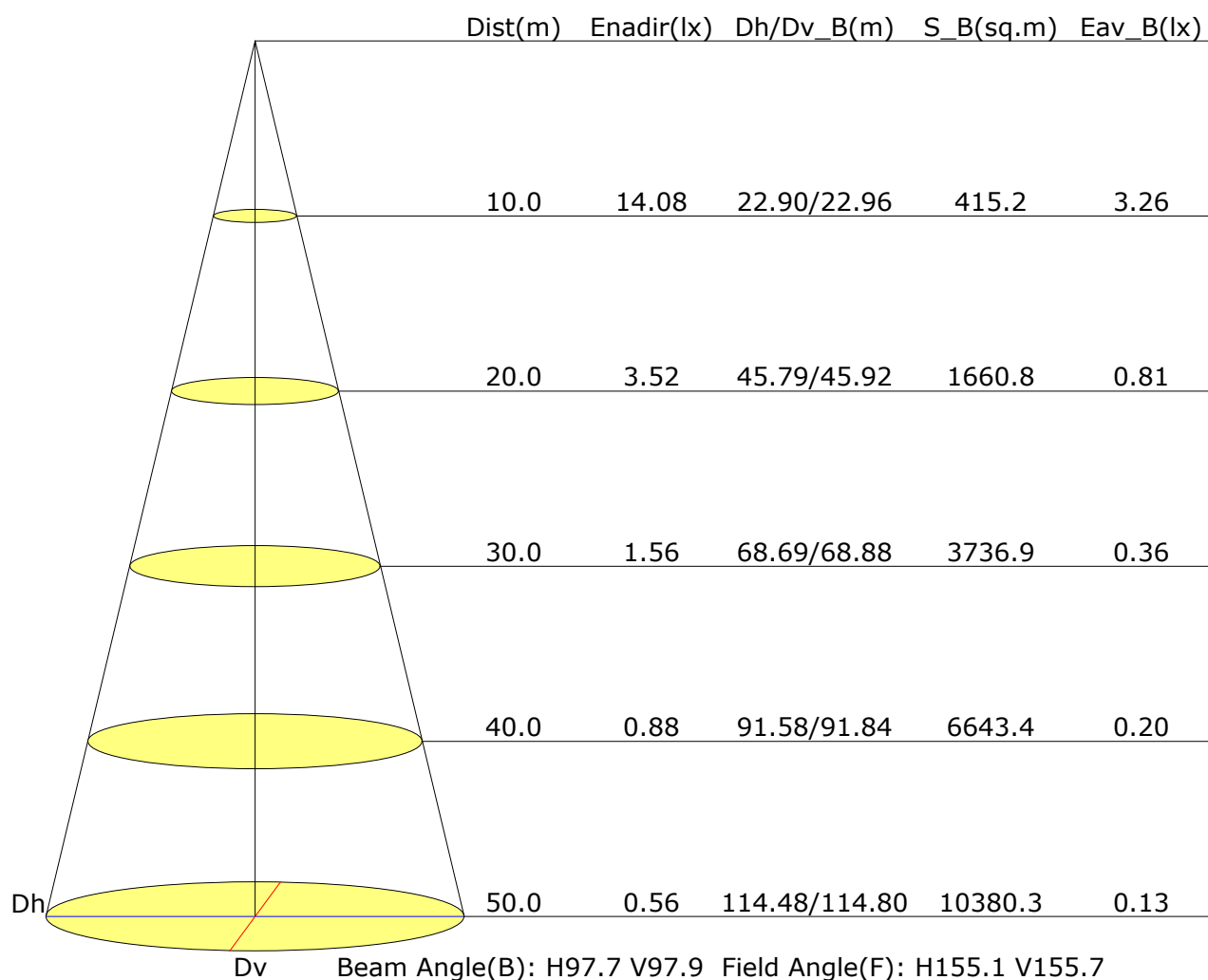


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1188	1104	1014	918	813	689	536	352	100
C90	1284	1207	1127	1043	951	847	722	564	348
C180	1324	1250	1173	1089	998	890	762	603	393
C270	1228	1147	1060	967	861	744	601	428	172

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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:

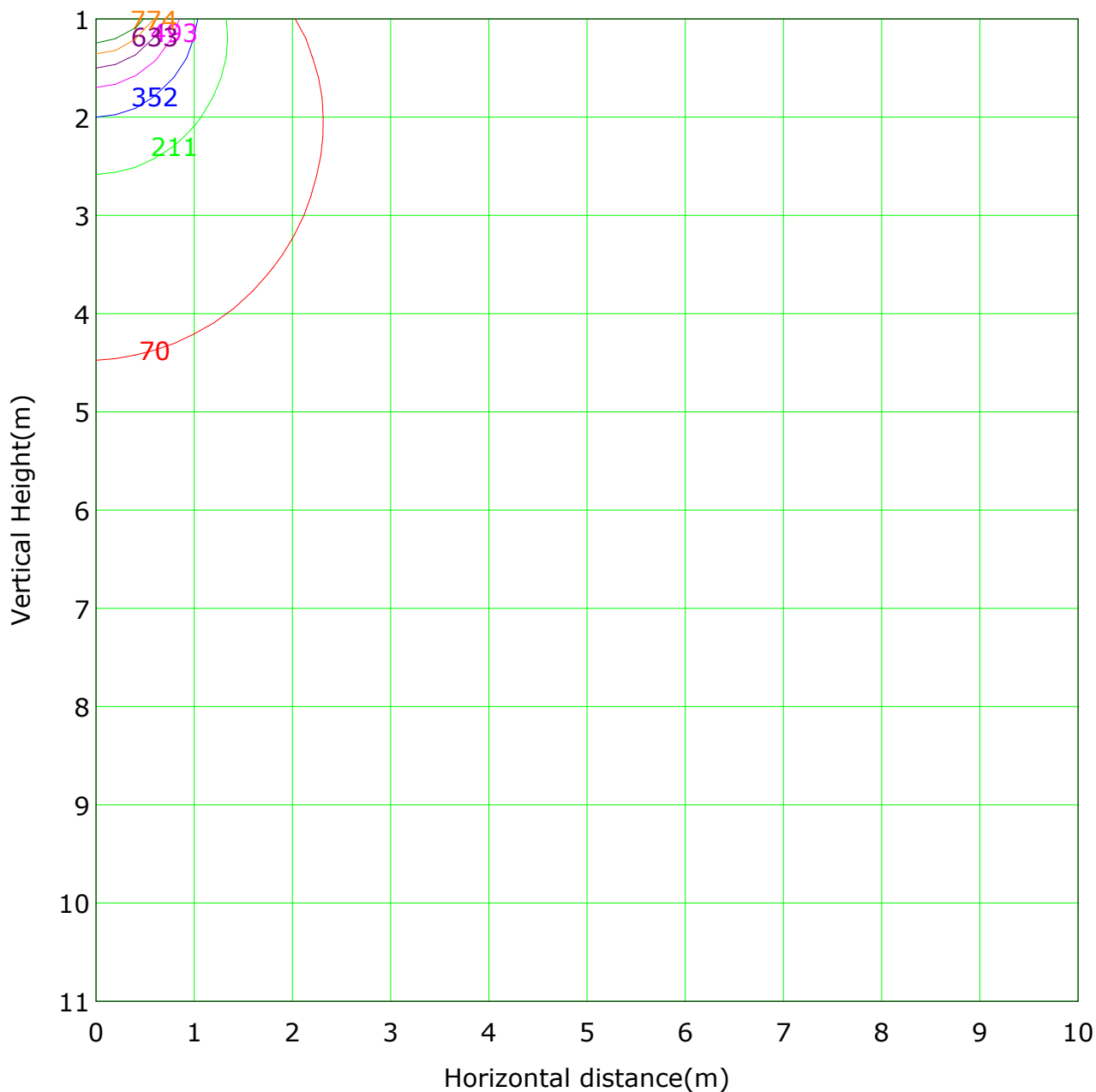
## Illuminance at a Distance



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



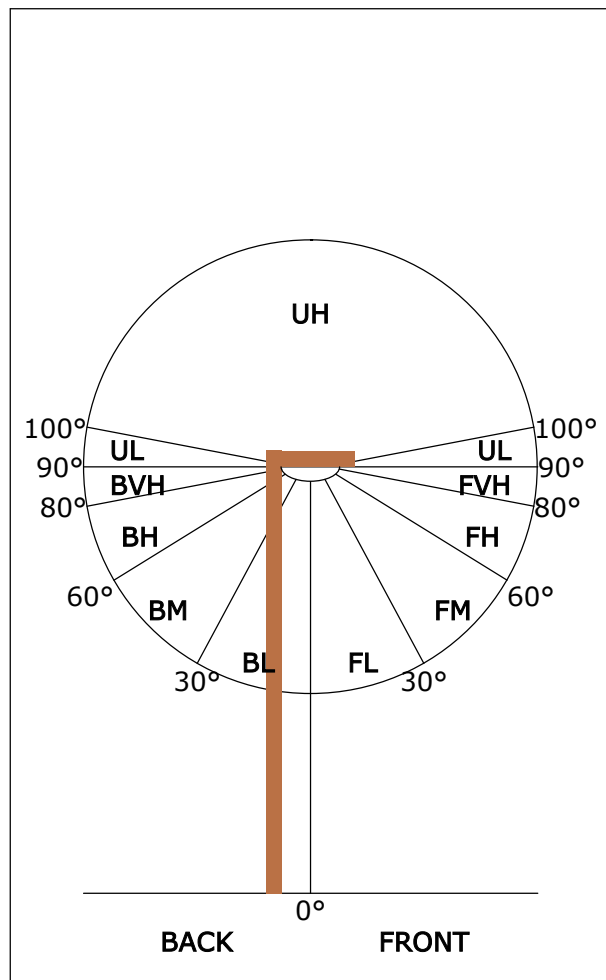
Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 1407.7 lx

( 5%): 70.4 lx	( 15%): 211.2 lx
( 25%): 351.9 lx	( 35%): 492.7 lx
( 45%): 633.5 lx	( 55%): 774.2 lx
( 65%): 915.0 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	1726	50.4
FL ( 0°-30°)	526	15.3
FM (30°-60°)	881	25.7
FH (60°-80°)	293	8.5
FVH (80°-90°)	26	0.8
BACK LIGHT	1680	49.0
BL ( 0°-30°)	522	15.2
BM (30°-60°)	863	25.2
BH (60°-80°)	275	8.0
BVH (80°-90°)	20	0.6
UP LIGHT	21	0.6
UL (90°-100°)	0	0.0
UH (100°-180°)	21	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 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: