

Report No.:

Test Time: 2025-09-27 15:34

## 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: 0.235 A

Power Factor: 0.995

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 900

Voltage: 120.4 V

Power: 28.21 W

## Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 3810.6 lm

Downward Ratio: 71%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.2, 155.7, 155.5, 155.5

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

Luminaire Efficacy Rating (LER): 135.13

Max. Intensity: 1118.07 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 3810.6 lm

Efficiency: 100%

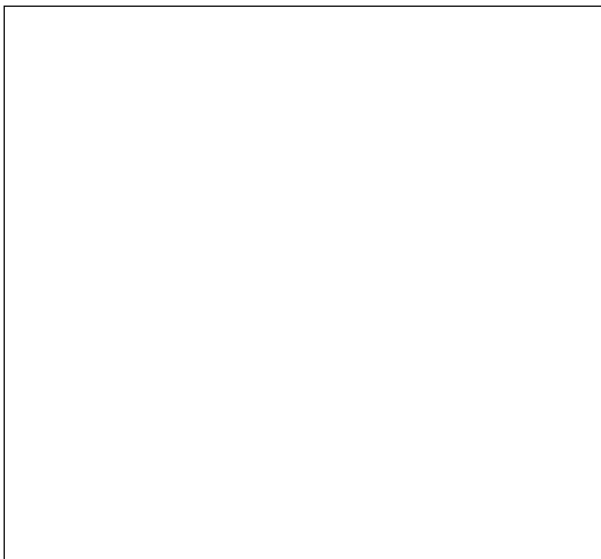
Upward Ratio: 29%

C0r0 Intensity: 1116.73 cd

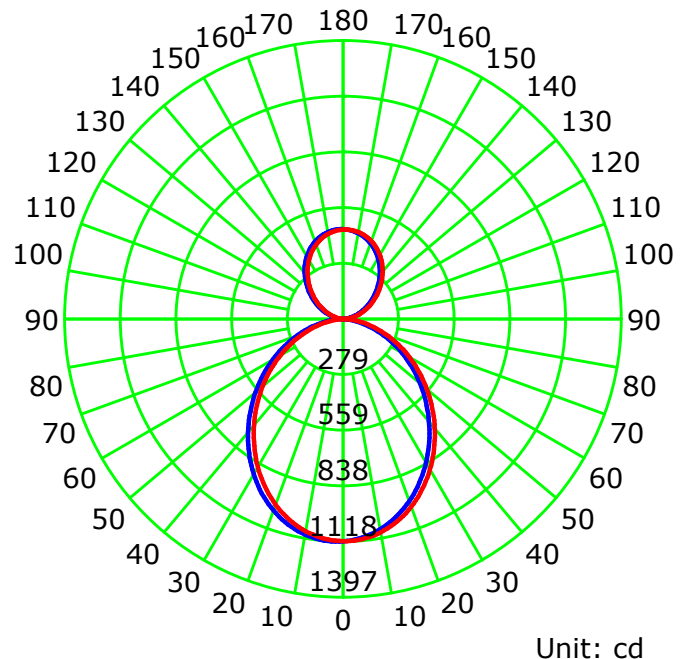
Pos of Max. Intensity: H180 V2

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:

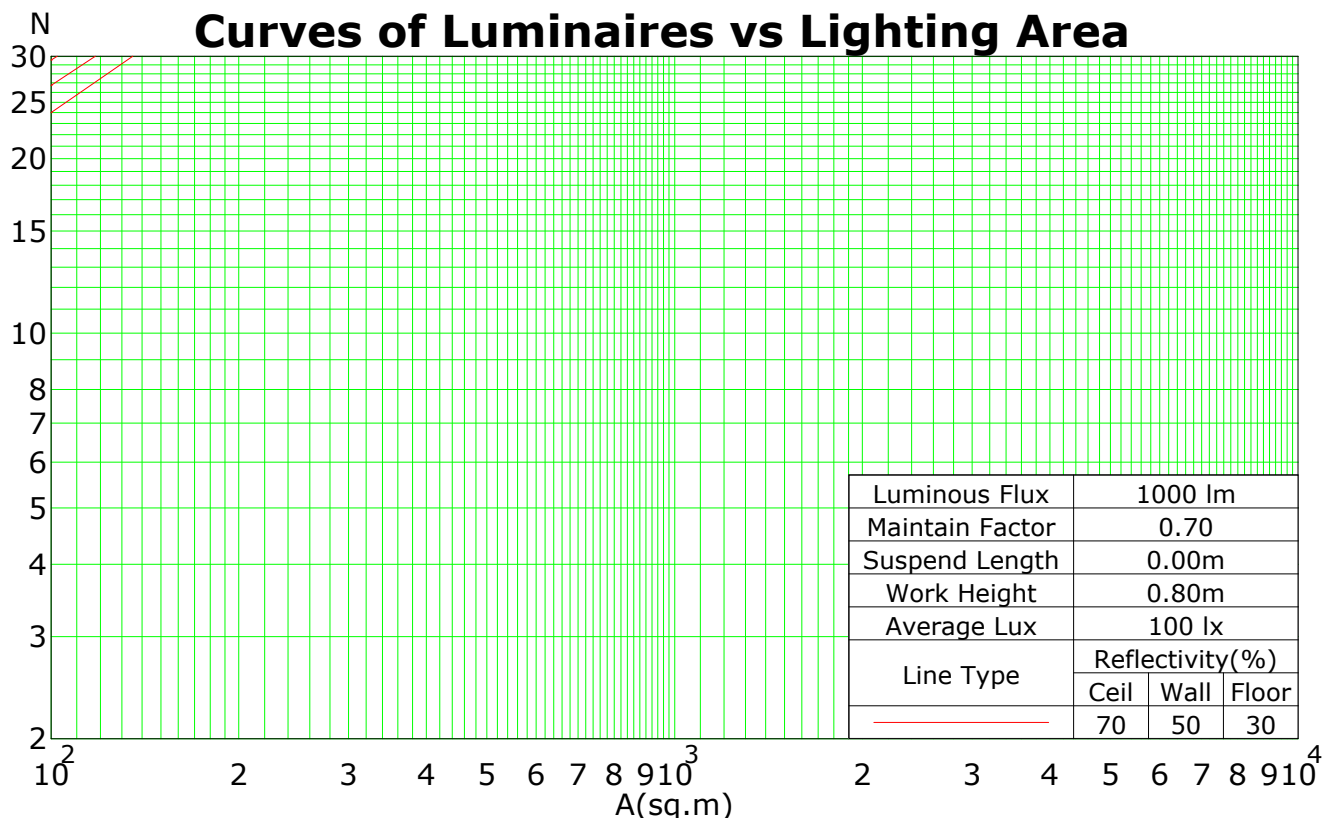
## Coefficients Of Utilization - Zonal Cavity Method

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	1.12	1.12	1.12	1.12	1.06	1.06	1.06	1.06	0.95	0.95	0.95	0.85	0.85	0.85	0.75	0.75	0.75	0.71
1	1.03	0.98	0.94	0.91	0.97	0.93	0.90	0.87	0.84	0.81	0.79	0.75	0.73	0.71	0.67	0.66	0.64	0.60
2	0.94	0.86	0.80	0.75	0.88	0.82	0.76	0.72	0.74	0.69	0.66	0.66	0.63	0.60	0.59	0.57	0.54	0.51
3	0.86	0.76	0.68	0.63	0.81	0.72	0.66	0.60	0.65	0.60	0.55	0.59	0.54	0.51	0.53	0.49	0.47	0.43
4	0.79	0.67	0.59	0.53	0.74	0.64	0.57	0.51	0.58	0.52	0.47	0.52	0.48	0.44	0.47	0.43	0.40	0.37
5	0.72	0.60	0.52	0.46	0.68	0.58	0.50	0.44	0.52	0.46	0.41	0.47	0.42	0.38	0.43	0.39	0.35	0.32
6	0.67	0.54	0.46	0.40	0.63	0.52	0.44	0.39	0.47	0.41	0.36	0.43	0.38	0.34	0.39	0.34	0.31	0.29
7	0.62	0.49	0.41	0.35	0.58	0.47	0.40	0.34	0.43	0.37	0.32	0.39	0.34	0.30	0.35	0.31	0.28	0.25
8	0.58	0.45	0.37	0.31	0.54	0.43	0.36	0.30	0.39	0.33	0.29	0.36	0.31	0.27	0.33	0.28	0.25	0.23
9	0.54	0.41	0.33	0.28	0.51	0.39	0.32	0.27	0.36	0.30	0.26	0.33	0.28	0.24	0.30	0.26	0.23	0.21
10	0.50	0.38	0.30	0.25	0.48	0.36	0.29	0.25	0.33	0.27	0.23	0.31	0.26	0.22	0.28	0.24	0.21	0.19

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

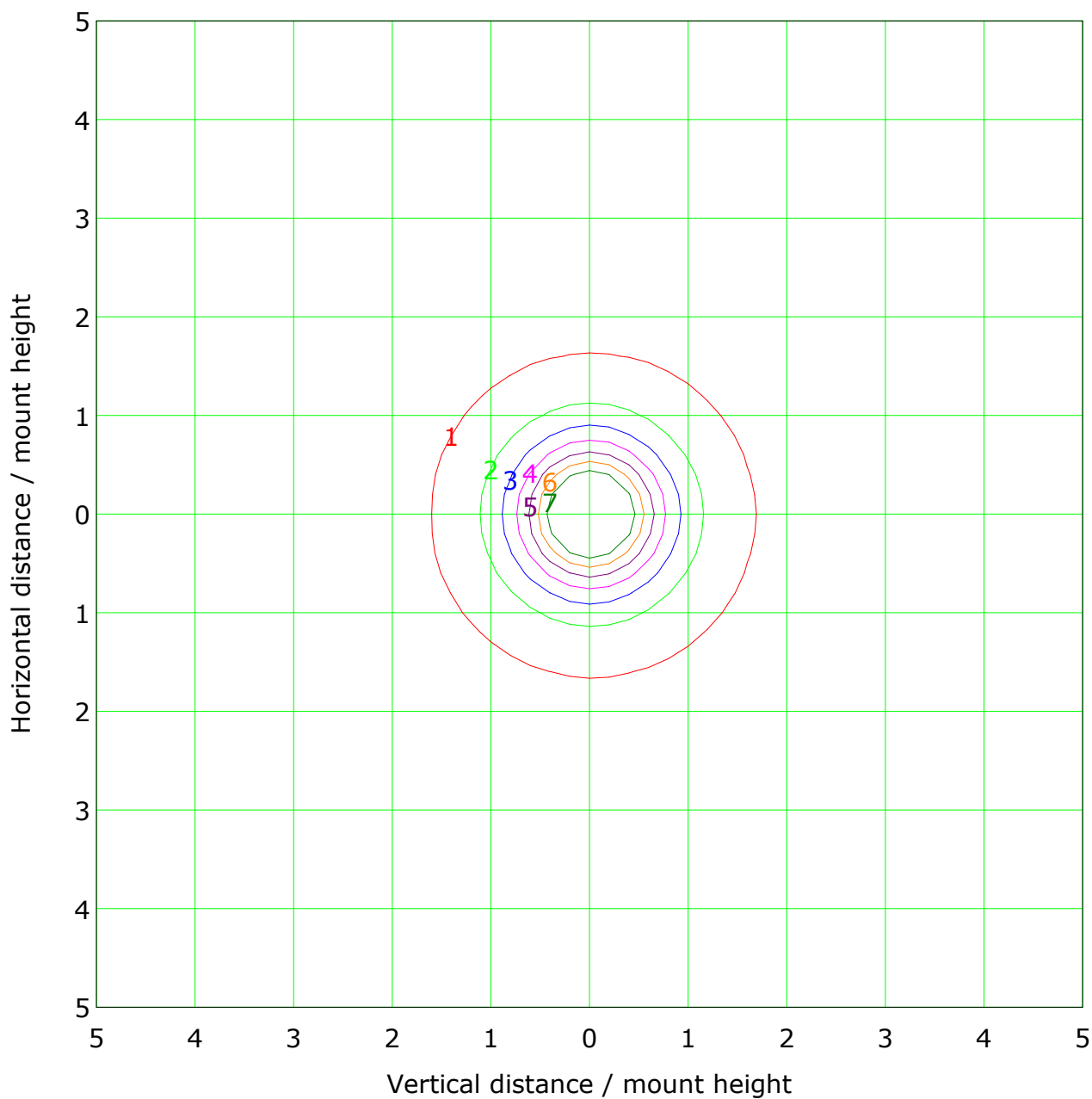
Test Device: GPM-1600L

Distance: 13.500 m [K=1.0000]

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 11.2 lx

( 5%): 0.6 lx	( 15%): 1.7 lx
( 25%): 2.8 lx	( 35%): 3.9 lx
( 45%): 5.0 lx	( 55%): 6.1 lx
( 65%): 7.3 lx	

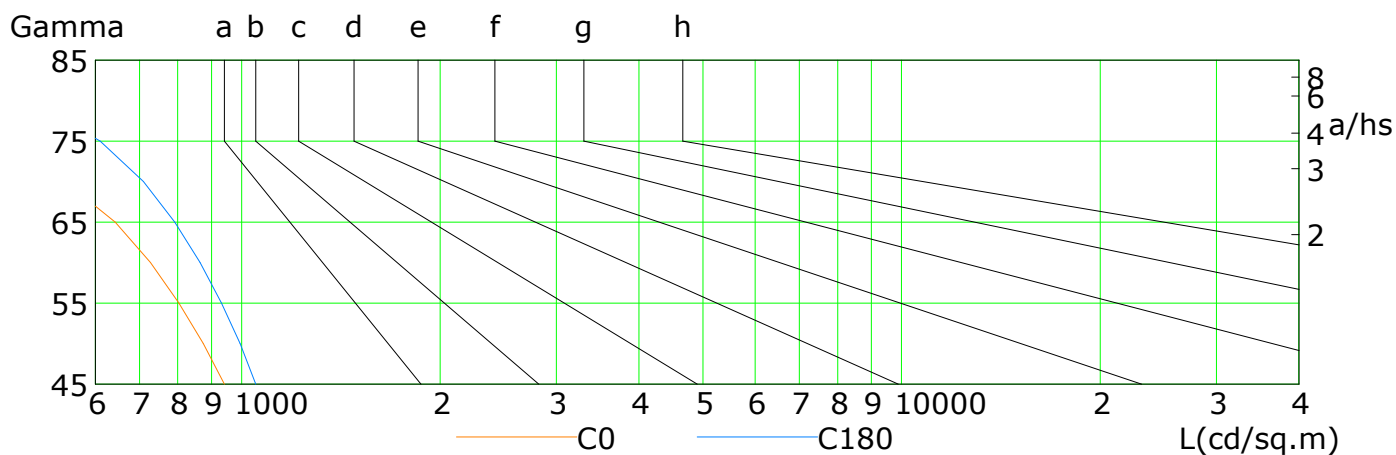
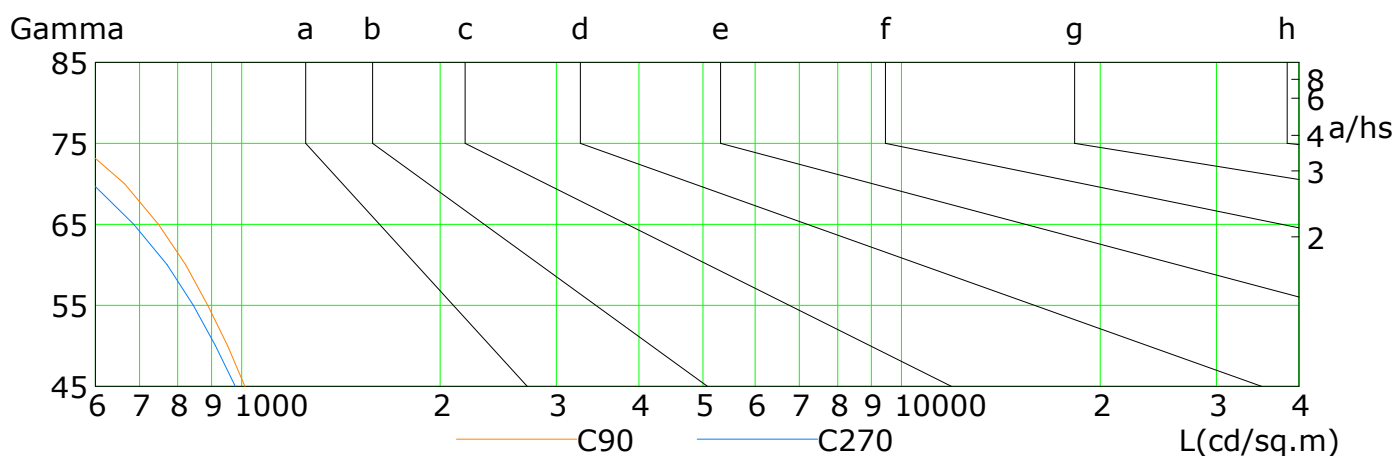
C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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

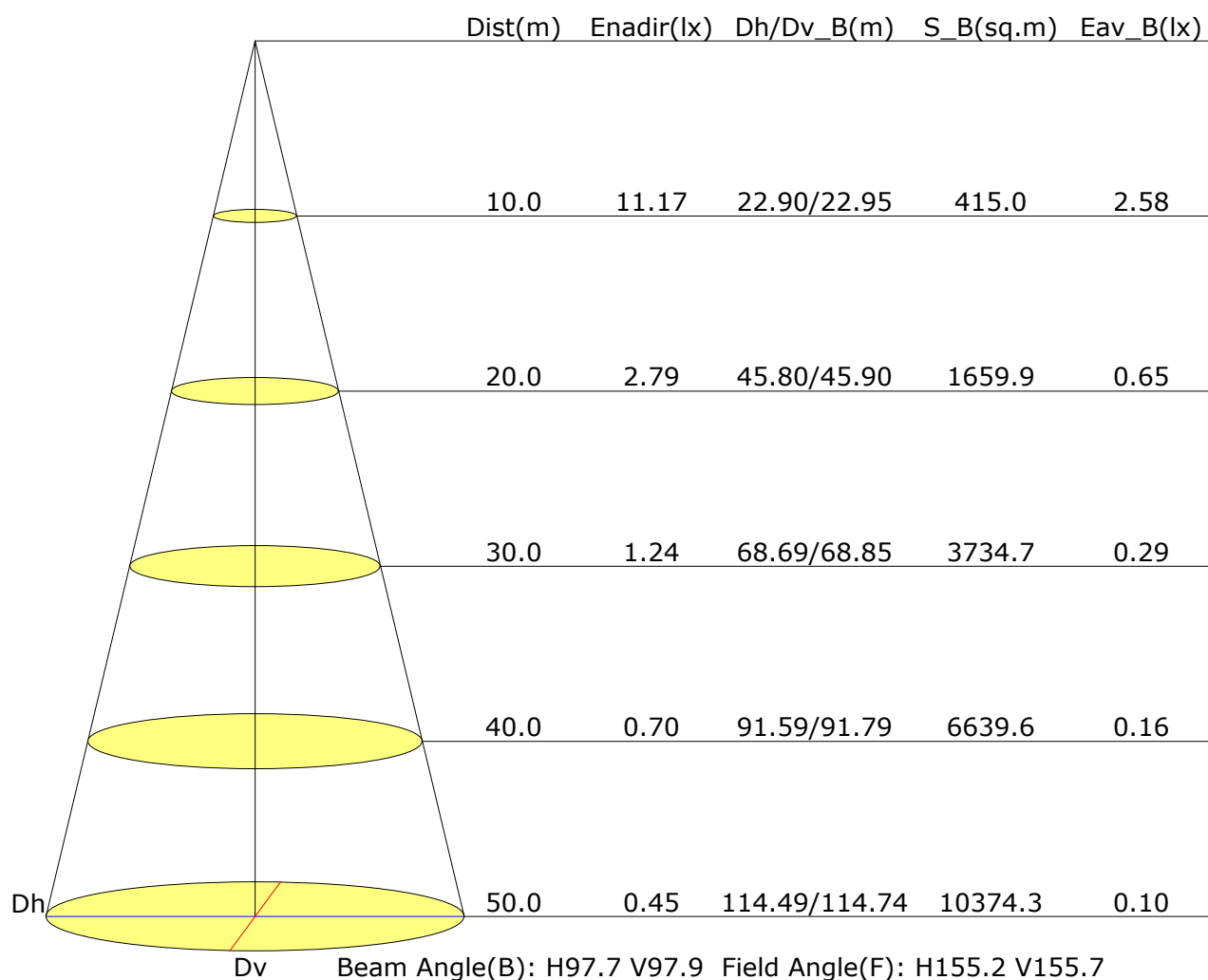


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	941	875	803	728	644	540	424	279	80
C90	1011	952	888	822	748	665	565	442	270
C180	1051	994	932	865	792	710	611	485	319
C270	978	913	845	771	687	594	483	344	144

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:

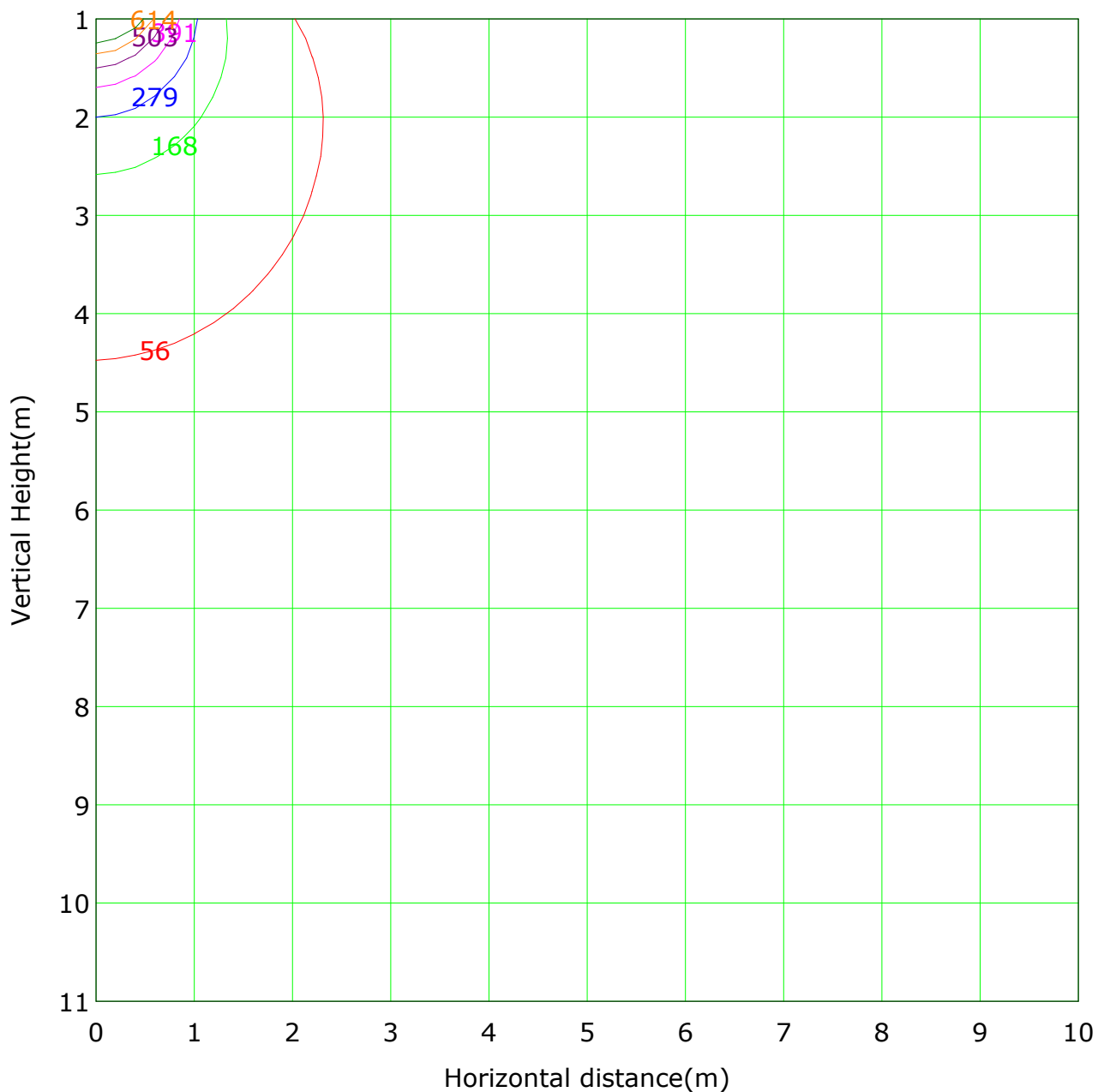
## Illuminance at a Distance



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



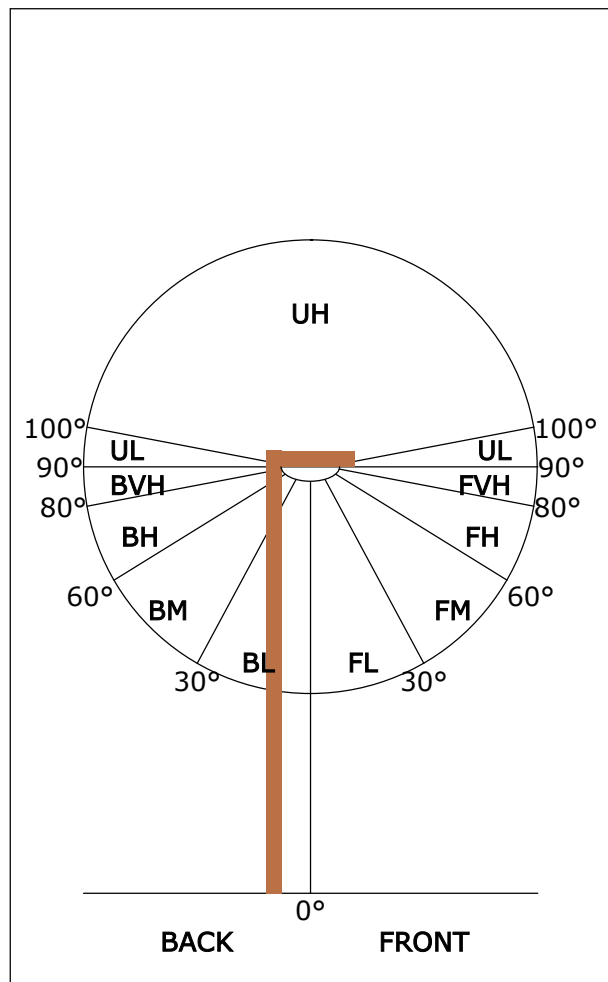
Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 1116.7 lx

( 5%): 55.8 lx	( 15%): 167.5 lx
( 25%): 279.2 lx	( 35%): 390.9 lx
( 45%): 502.5 lx	( 55%): 614.2 lx
( 65%): 725.9 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	1366	35.8
FL ( 0°-30°)	417	10.9
FM (30°-60°)	697	18.3
FH (60°-80°)	231	6.1
FVH (80°-90°)	21	0.6
BACK LIGHT	1335	35.0
BL ( 0°-30°)	414	10.9
BM (30°-60°)	685	18.0
BH (60°-80°)	219	5.7
BVH (80°-90°)	17	0.4
UP LIGHT	1110	29.1
UL (90°-100°)	16	0.4
UH (100°-180°)	1094	28.7
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U5 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U5 G1

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: