

Report No.:

Test Time: 2025-09-27 15:43

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: 0.236 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: 3839 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): 97.8, 97.9, 97.8, 97.9

Luminaire Efficacy Rating (LER): 136.14

Max. Intensity: 1124.24 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 3839.0 lm

Efficiency: 100%

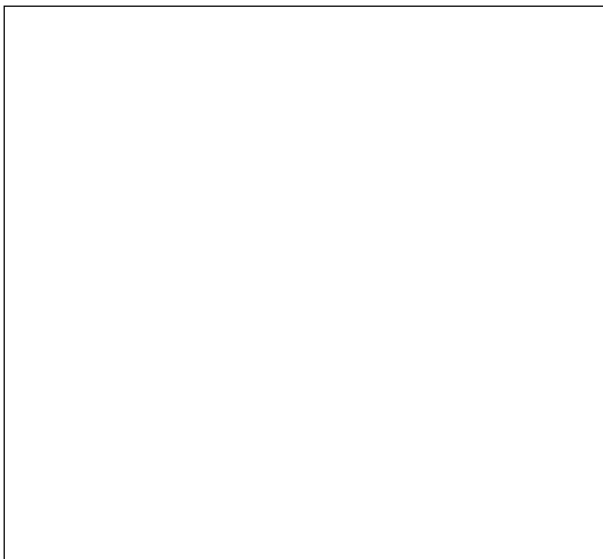
Upward Ratio: 29%

C0r0 Intensity: 1122.84 cd

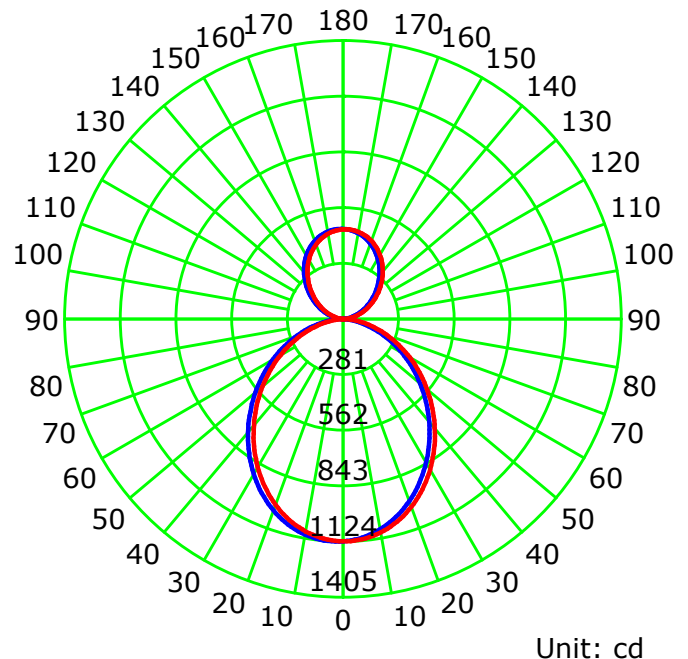
Pos of Max. Intensity: H180 V2

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:

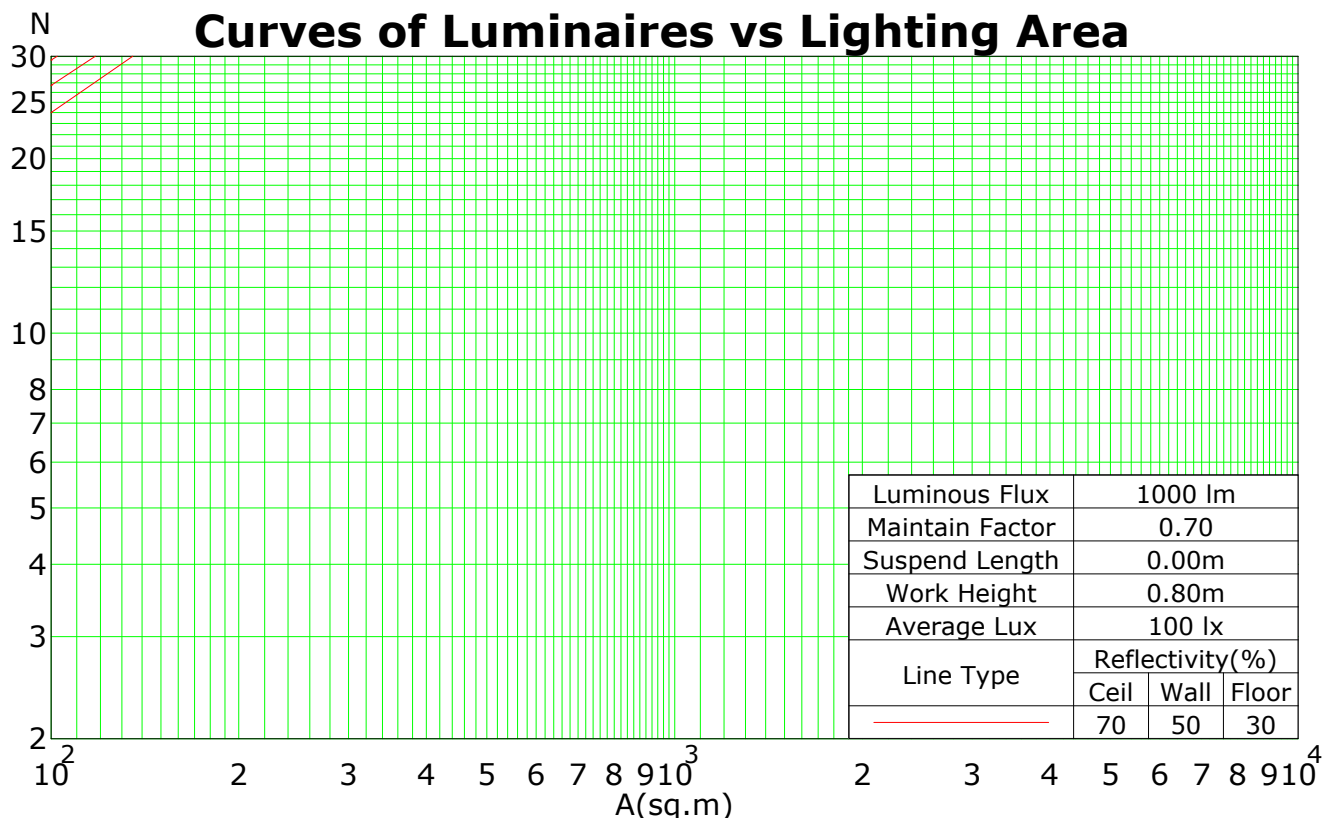
Coefficients Of Utilization - Zonal Cavity Method

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	0.65	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	0.46	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	0.38	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

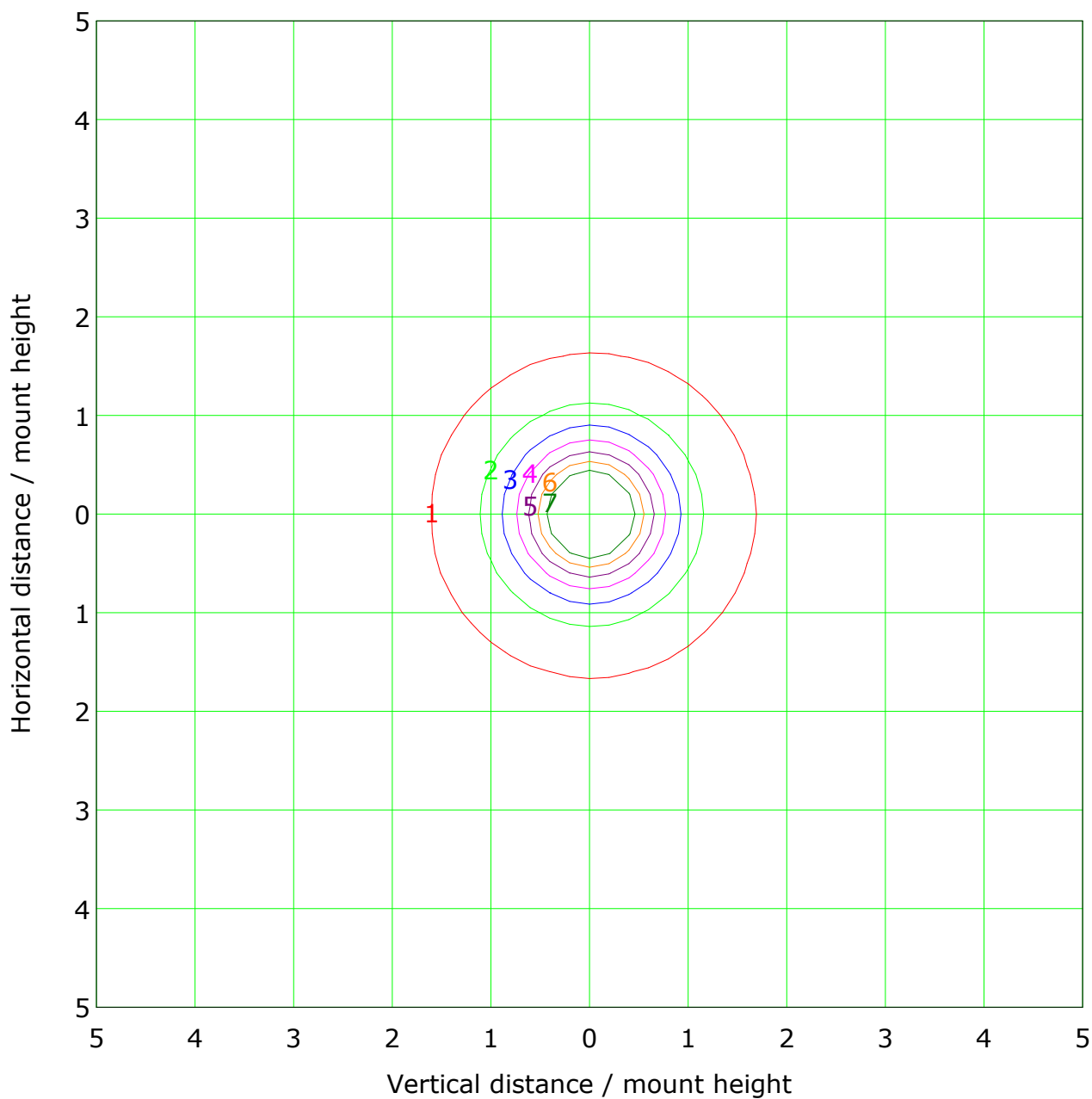
Test Device: GPM-1600L

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%):	5.1 lx	(55%):	6.2 lx
(65%):	7.3 lx		

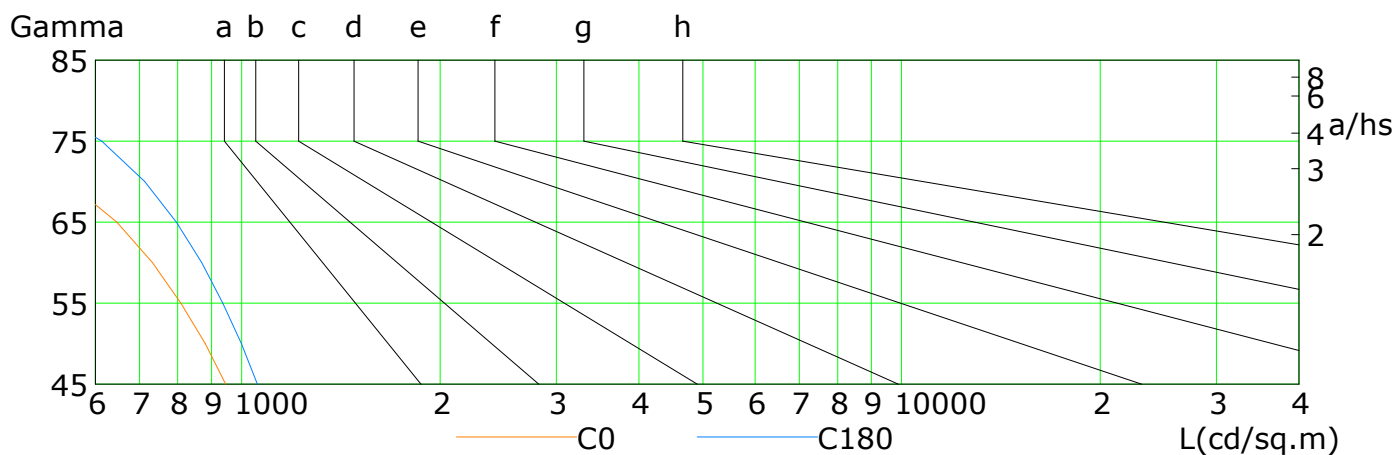
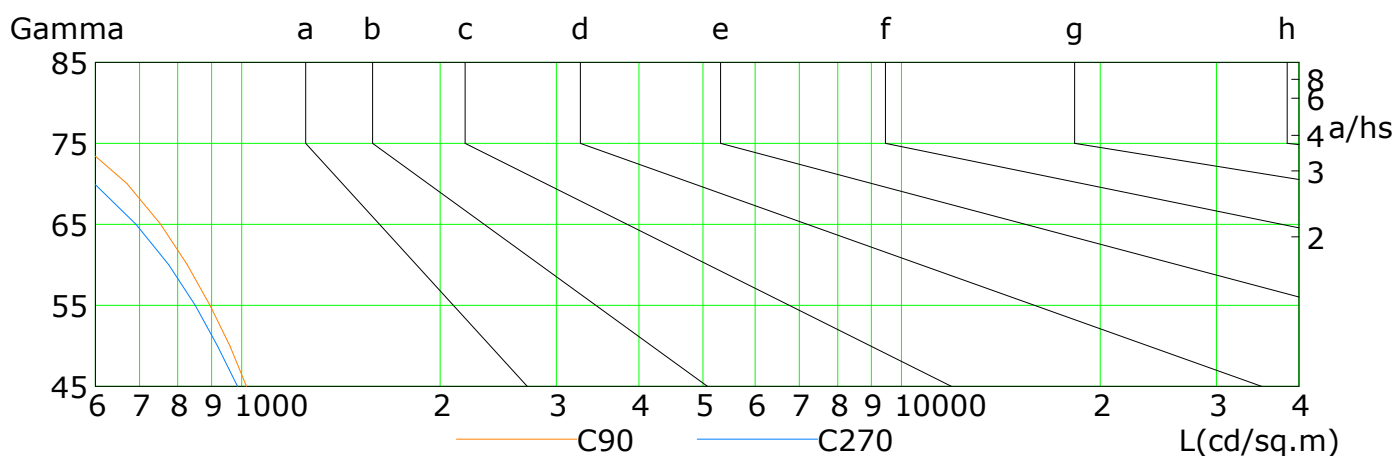
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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	946	880	809	733	647	546	428	282	80
C90	1017	959	895	827	754	670	570	443	273
C180	1056	999	936	870	796	713	614	489	318
C270	986	919	851	775	692	598	486	347	146

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

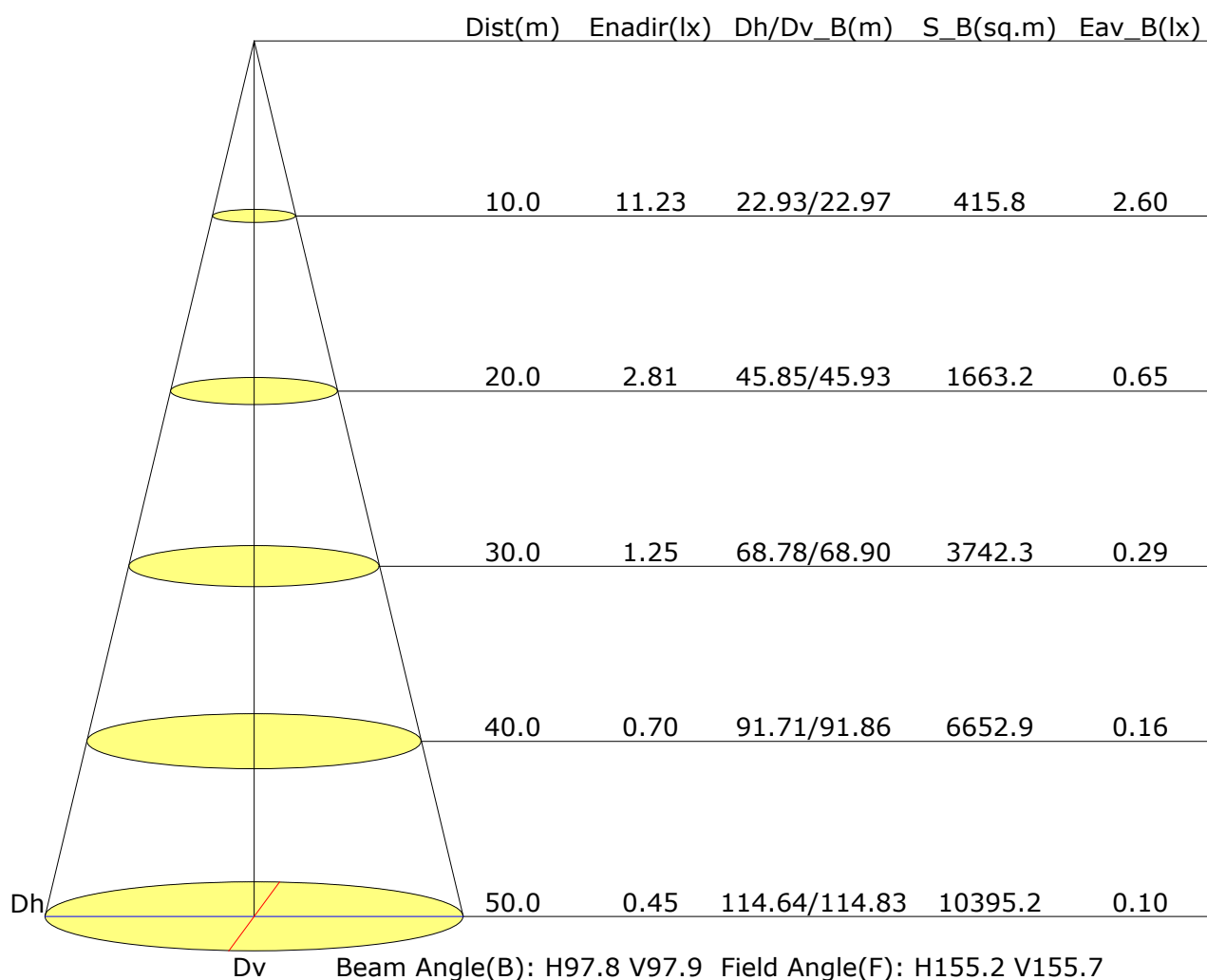
Test Device: GPM-1600L

Distance: 13.500 m [K=1.0000]

Humidity:

Inspector:

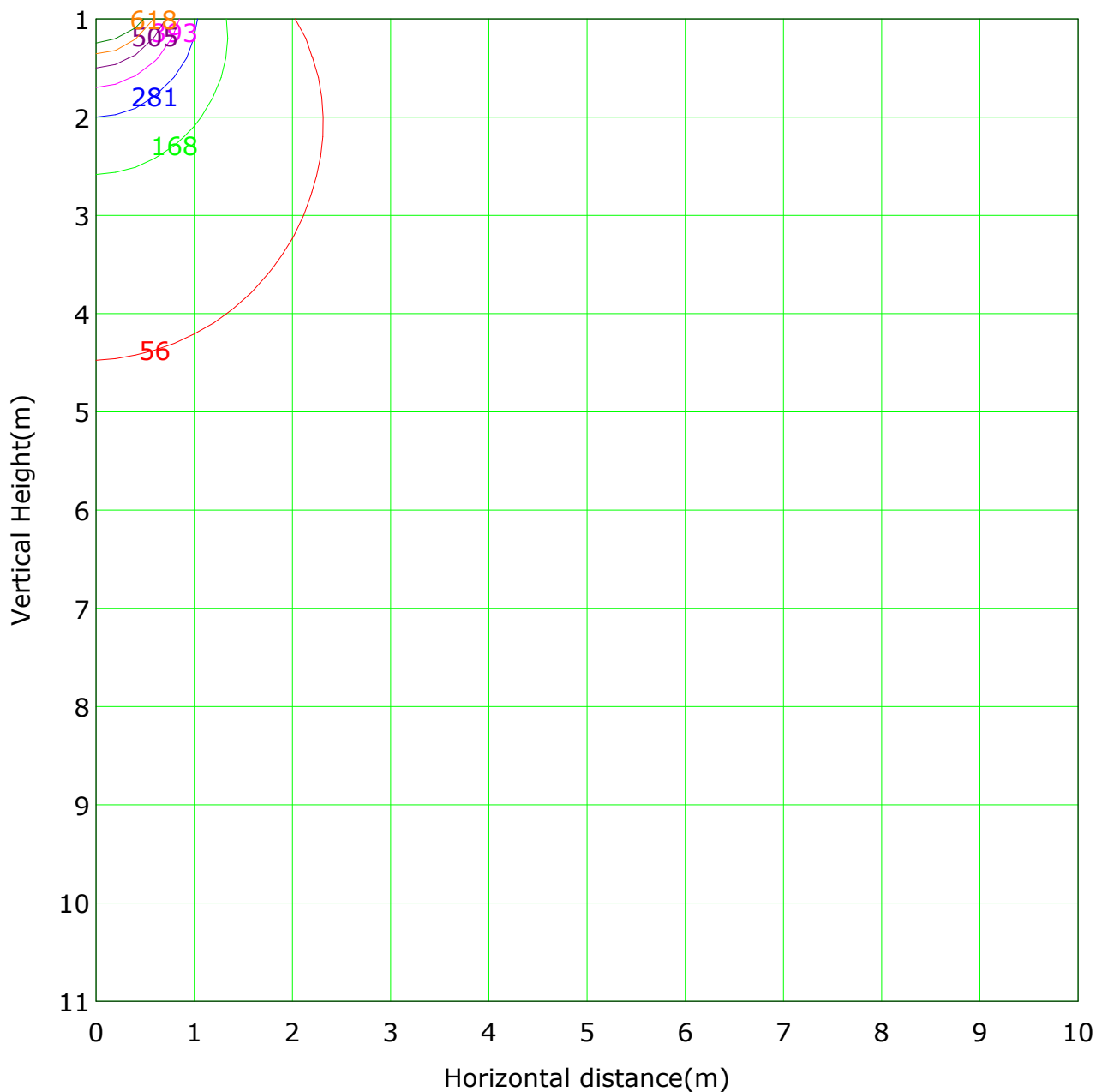
Illuminance at a Distance



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

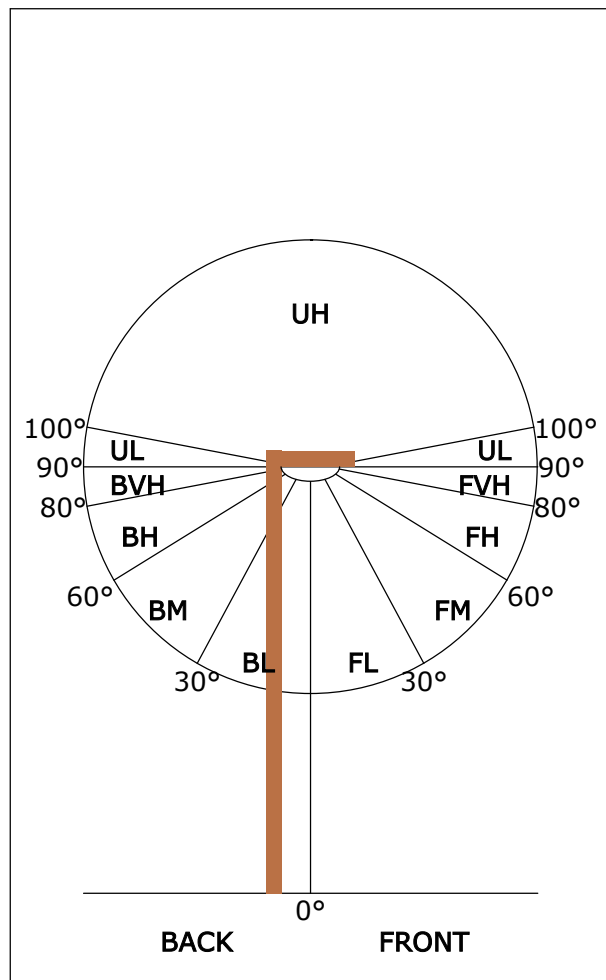


Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1122.8 lx
— (5%): 56.1 lx — (15%): 168.4 lx
— (25%): 280.7 lx — (35%): 393.0 lx
— (45%): 505.3 lx — (55%): 617.6 lx
— (65%): 729.8 lx

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	1375	35.8
FL (0°-30°)	419	10.9
FM (30°-60°)	702	18.3
FH (60°-80°)	233	6.1
FVH (80°-90°)	21	0.6
BACK LIGHT	1343	35.0
BL (0°-30°)	417	10.9
BM (30°-60°)	689	18.0
BH (60°-80°)	220	5.7
BVH (80°-90°)	17	0.4
UP LIGHT	1121	29.2
UL (90°-100°)	16	0.4
UH (100°-180°)	1105	28.8
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: