

Report No.:

Test Time: 2025-09-27 15:51

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: MX603R-LD60WDD-D900MM

Lamp Catalog: 120V 5000K

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: 3890.8 lm

Downward Ratio: 71%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.3, 155.8, 155.6, 155.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 97.9, 98.0, 98.0, 98.0

Luminaire Efficacy Rating (LER): 137.97

Max. Intensity: 1135.66 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 3890.8 lm

Efficiency: 100%

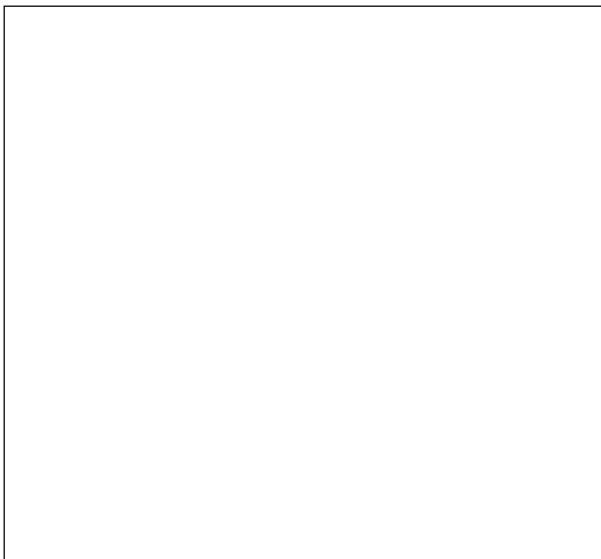
Upward Ratio: 29%

C0r0 Intensity: 1133.85 cd

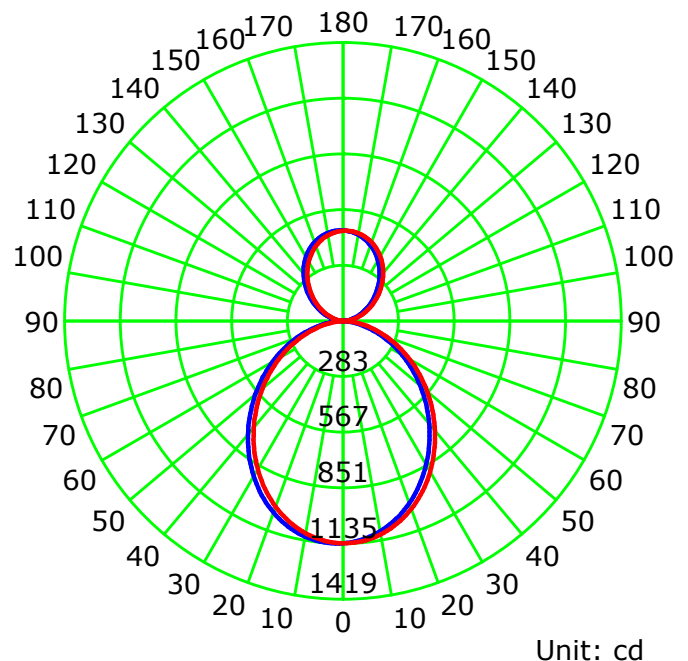
Pos of Max. Intensity: H180 V2

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:

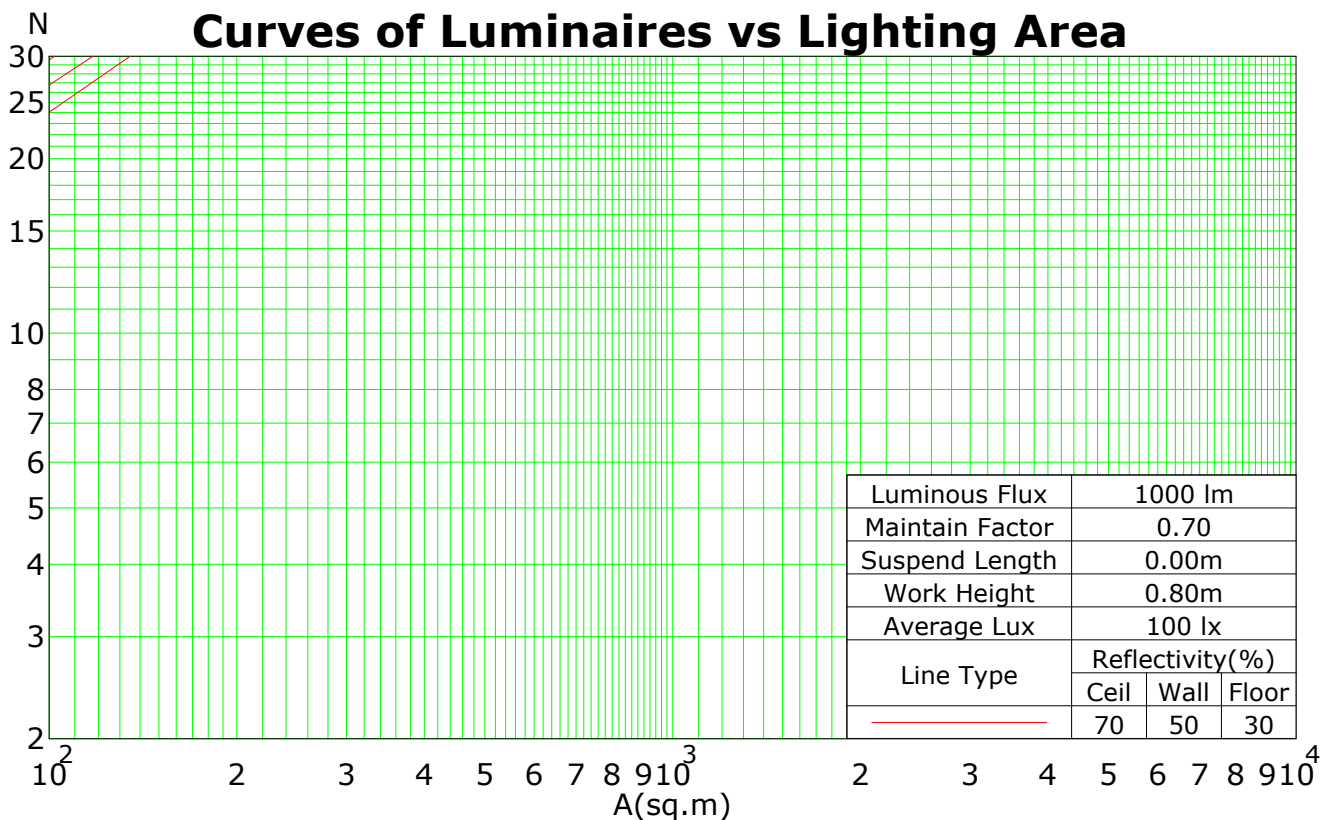
Coefficients Of Utilization - Zonal Cavity Method

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	0.71	0.74	0.69	0.65	0.66	0.63	0.60	0.59	0.56	0.54	0.51
3	0.86	0.76	0.68	0.62	0.81	0.72	0.65	0.60	0.65	0.60	0.55	0.59	0.54	0.51	0.52	0.49	0.46	0.43
4	0.78	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	0.57	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	0.39	0.34	0.43	0.37	0.32	0.39	0.34	0.30	0.35	0.31	0.28	0.25
8	0.57	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

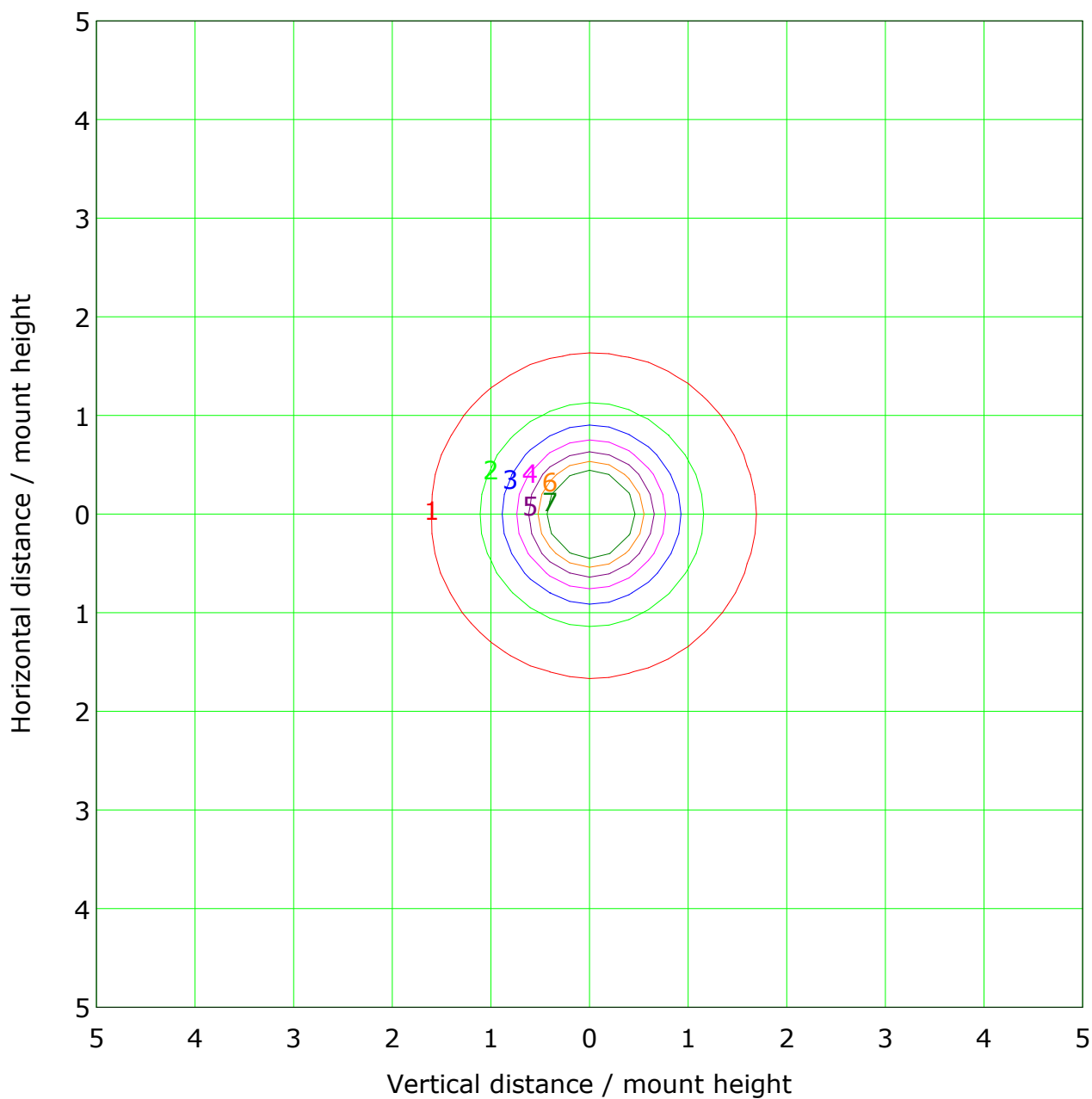
Test Device: GPM-1600L

Distance: 13.500 m [K=1.0000]

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 11.3 lx

(5%): 0.6 lx	(15%): 1.7 lx
(25%): 2.8 lx	(35%): 4.0 lx
(45%): 5.1 lx	(55%): 6.2 lx
(65%): 7.4 lx	

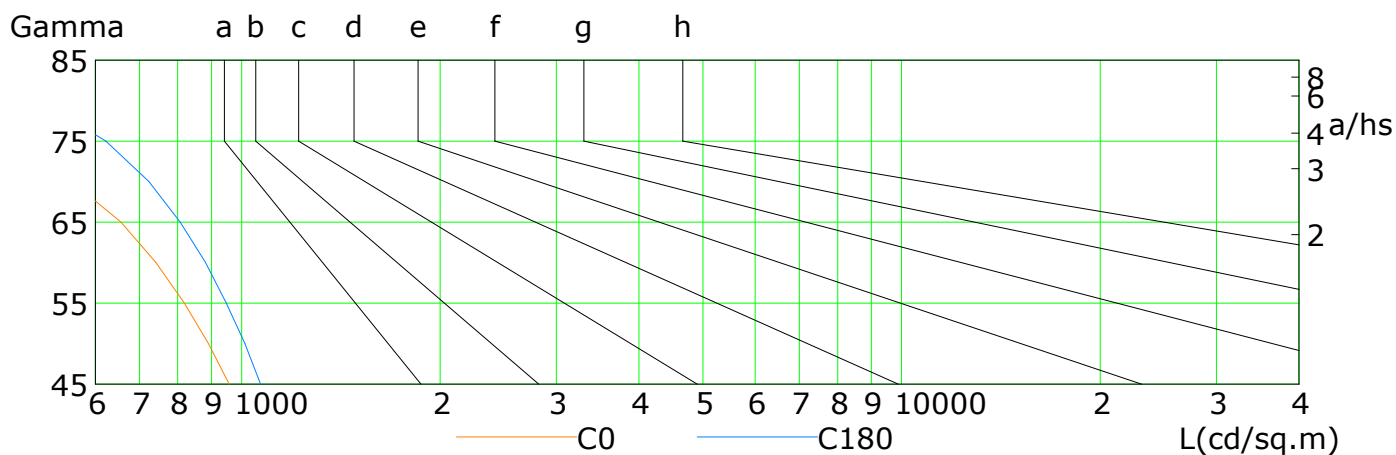
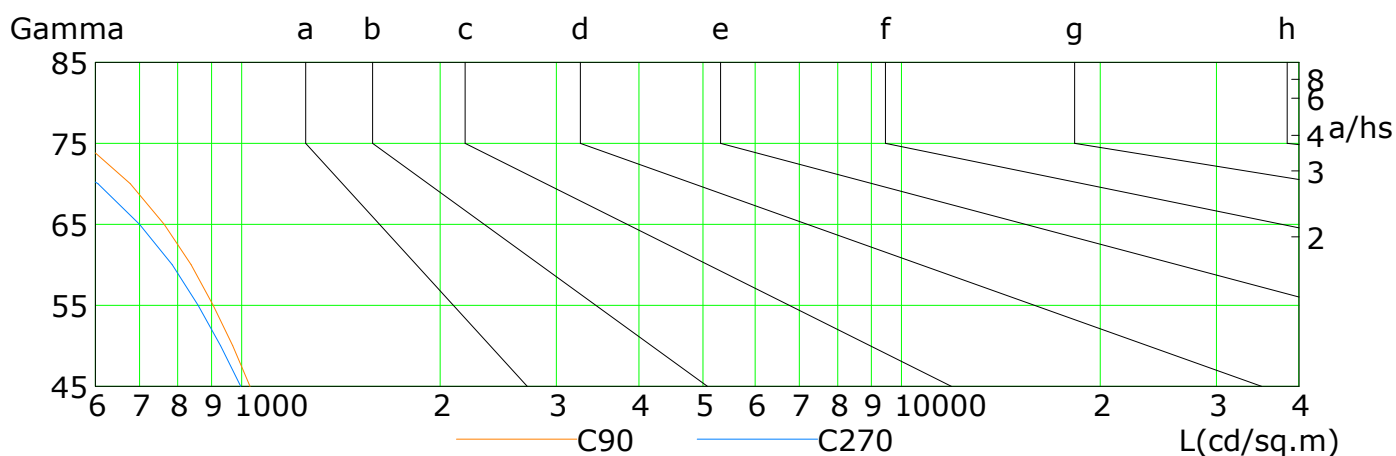
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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	958	891	819	741	656	553	434	286	82
C90	1029	969	905	838	763	678	577	449	277
C180	1069	1011	948	882	807	724	623	497	329
C270	997	929	859	785	701	606	493	352	148

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

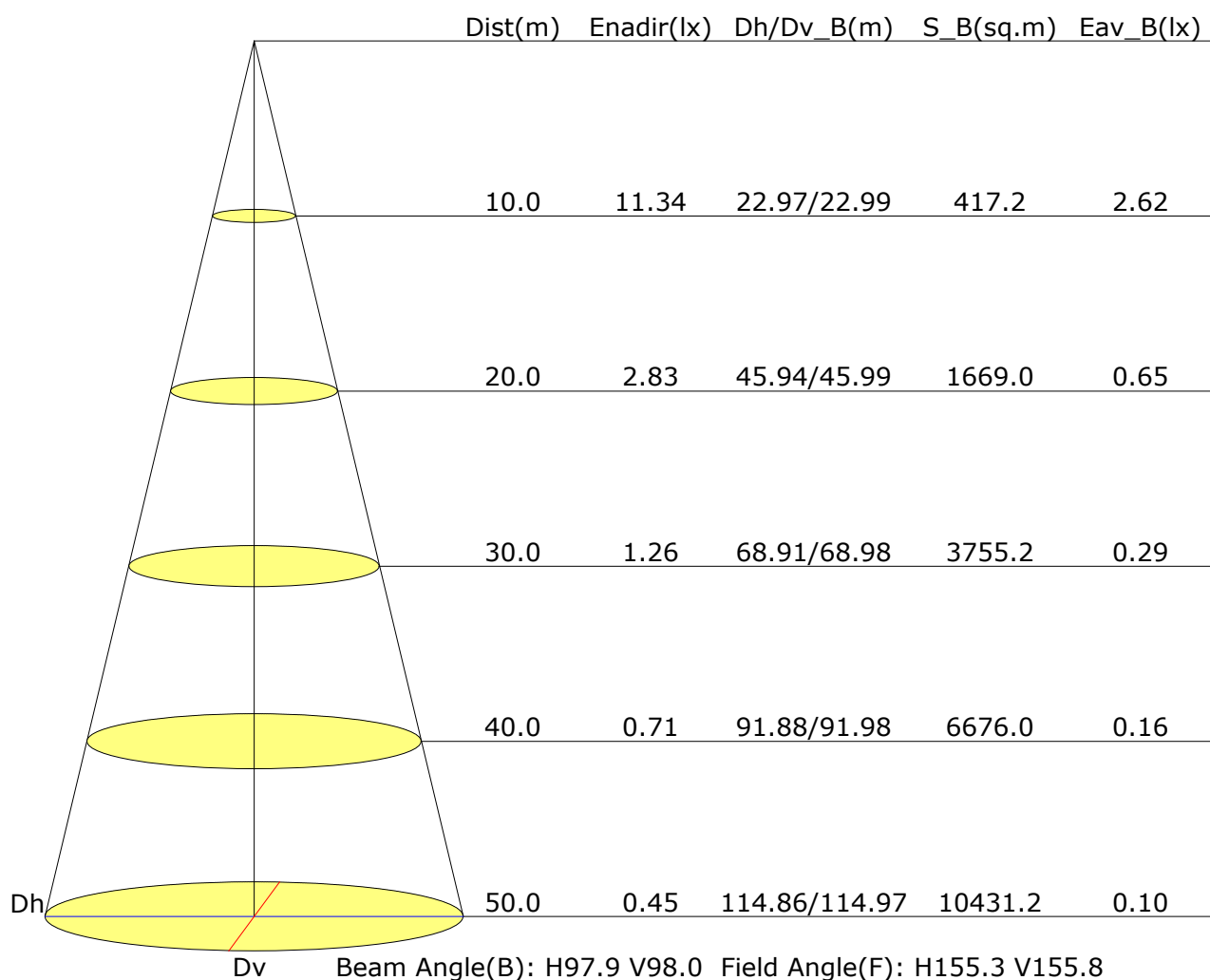
Test Device: GPM-1600L

Distance: 13.500 m [K=1.0000]

Humidity:

Inspector:

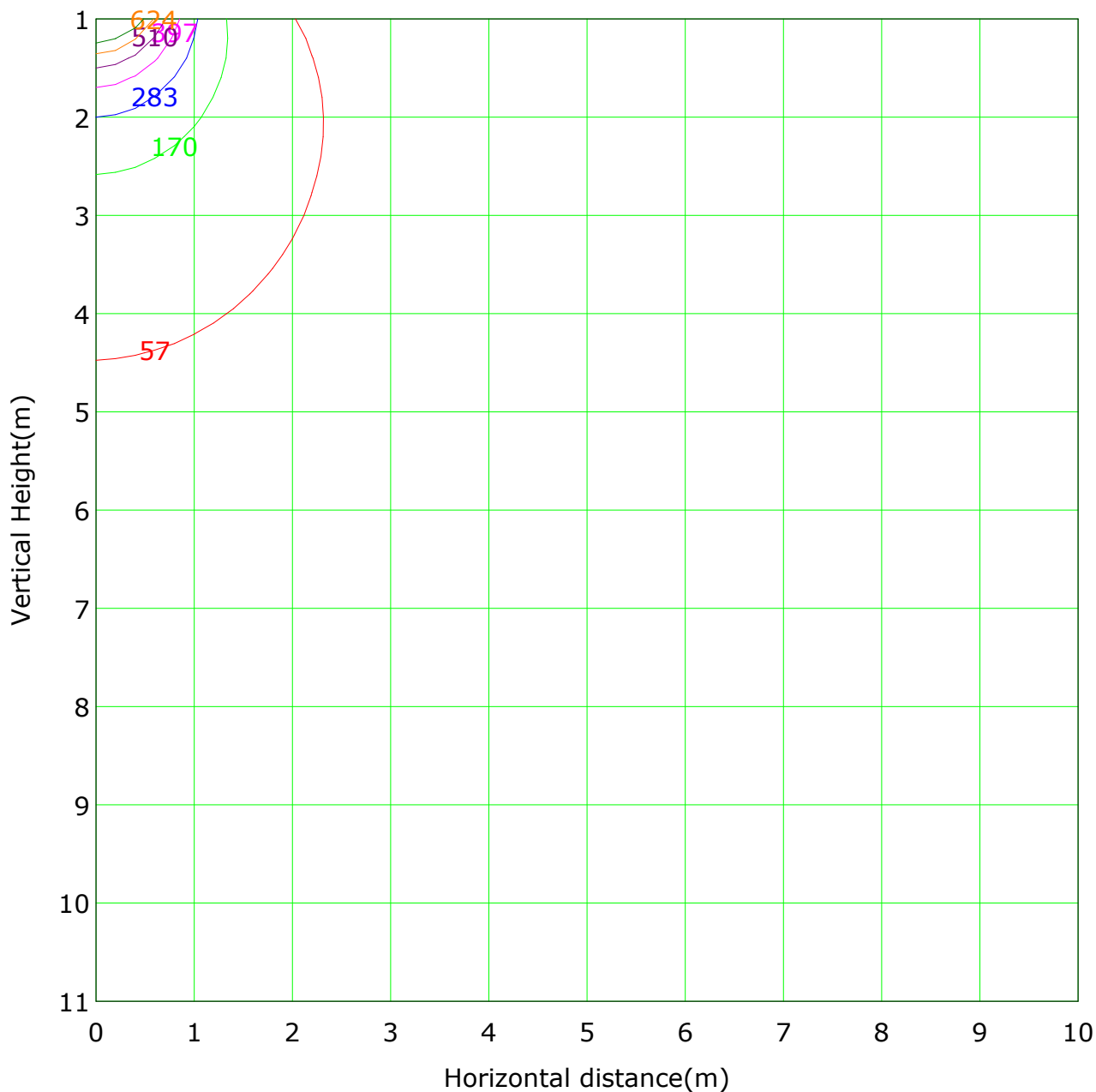
Illuminance at a Distance



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



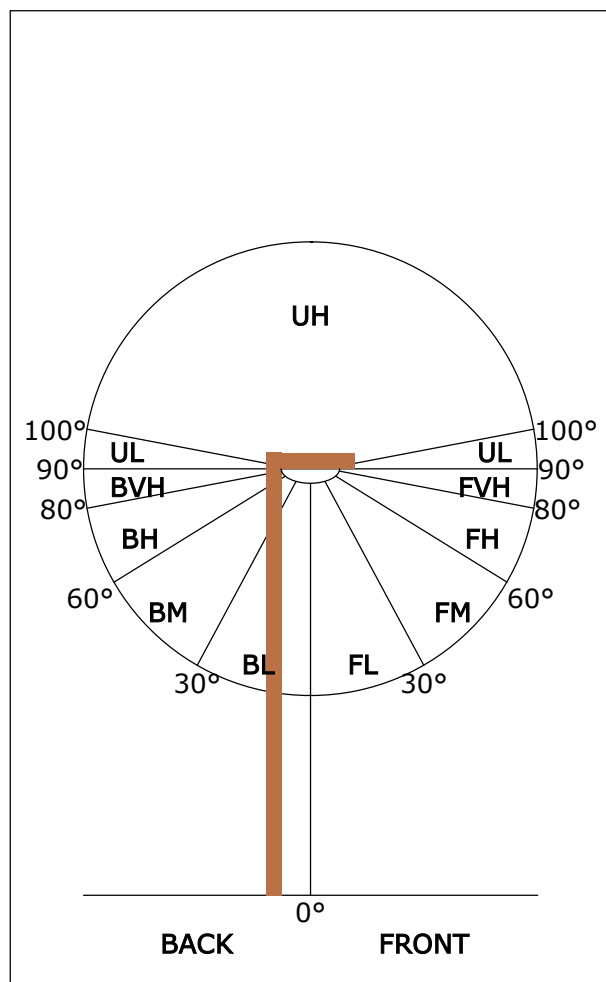
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1133.8 lx

(5%): 56.7 lx	(15%): 170.1 lx
(25%): 283.5 lx	(35%): 396.8 lx
(45%): 510.2 lx	(55%): 623.6 lx
(65%): 737.0 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	1390	35.7
FL (0°-30°)	423	10.9
FM (30°-60°)	710	18.2
FH (60°-80°)	236	6.1
FVH (80°-90°)	21	0.6
BACK LIGHT	1358	34.9
BL (0°-30°)	421	10.8
BM (30°-60°)	697	17.9
BH (60°-80°)	223	5.7
BVH (80°-90°)	17	0.4
UP LIGHT	1142	29.4
UL (90°-100°)	16	0.4
UH (100°-180°)	1126	28.9
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

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