

Report No.:

Test Time: 2025-09-27 17:53

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: 0.233 A

Power Factor: 0.995

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 900

Voltage: 120.3 V

Power: 27.87 W

Photometric Results

CIE Class: General Diffuse

Measurement Flux: 3681.3 lm

Downward Ratio: 57%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.4, 155.9, 155.7, 155.7

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

Luminaire Efficacy Rating (LER): 132.14

Max. Intensity: 865.4 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 3681.3 lm

Efficiency: 100%

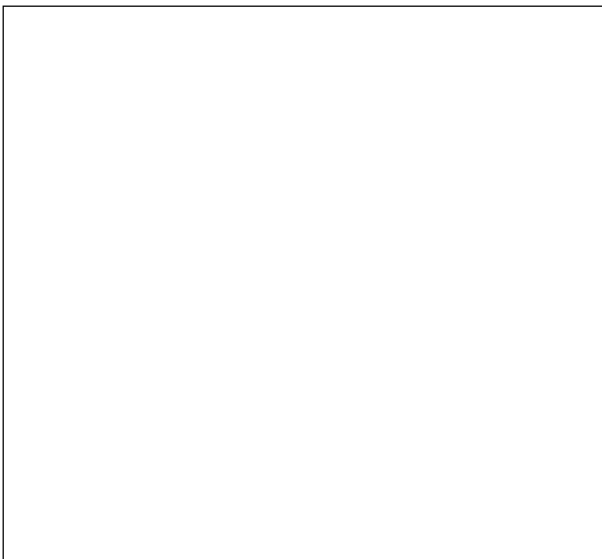
Upward Ratio: 43%

C0r0 Intensity: 863.97 cd

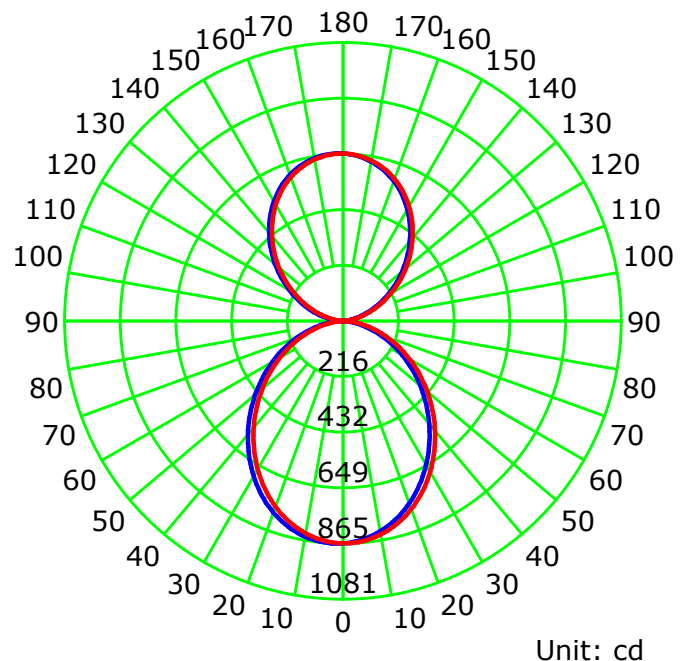
Pos of Max. Intensity: H180 V3

S/MH(C90/C270): 1.16

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

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:

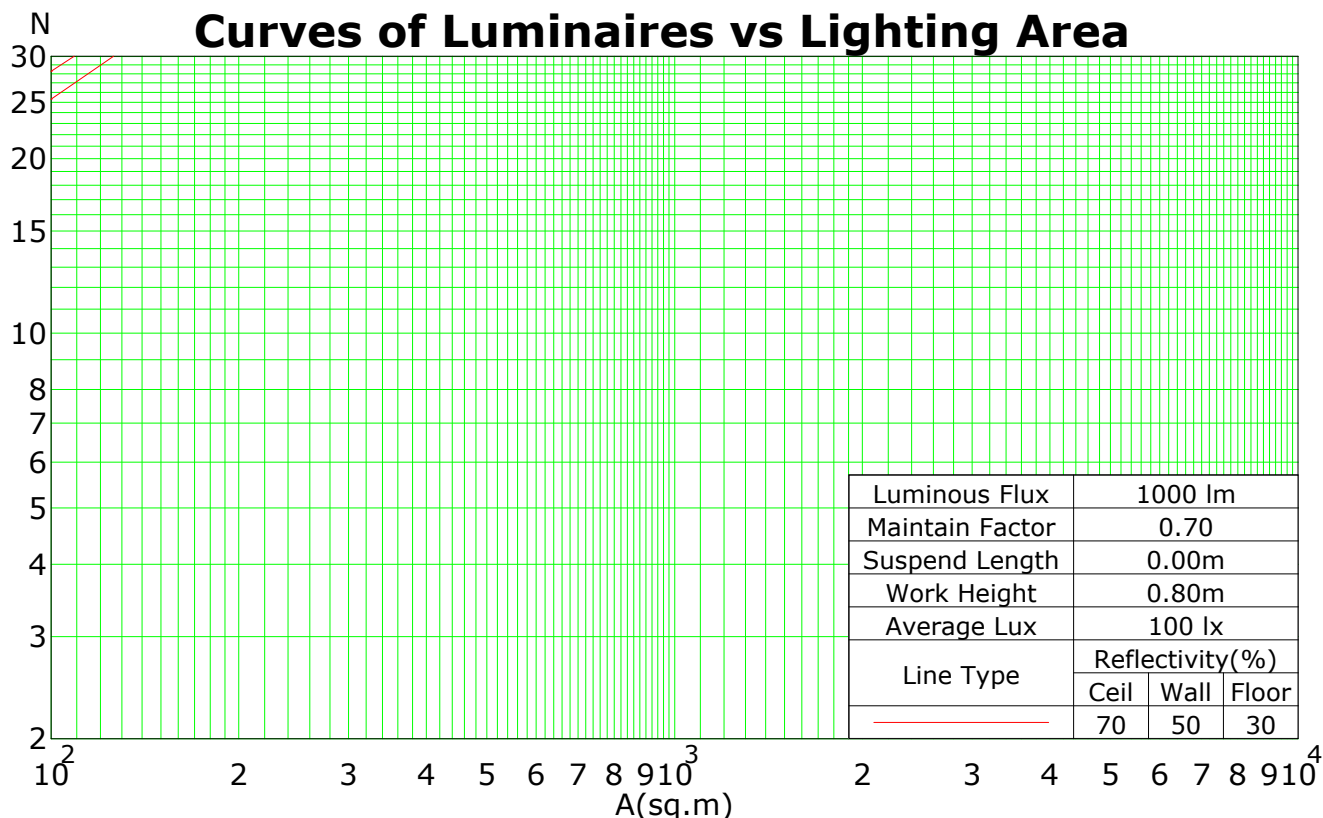
Coefficients Of Utilization - Zonal Cavity Method

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	1.09	1.09	1.09	1.09	1.01	1.01	1.01	1.01	0.87	0.87	0.87	0.74	0.74	0.74	0.63	0.63	0.63	0.57
1	1.00	0.95	0.91	0.88	0.93	0.89	0.85	0.82	0.77	0.74	0.72	0.66	0.64	0.62	0.56	0.54	0.53	0.48
2	0.91	0.83	0.77	0.72	0.84	0.78	0.73	0.68	0.67	0.63	0.60	0.58	0.55	0.52	0.49	0.47	0.45	0.41
3	0.83	0.73	0.66	0.60	0.77	0.69	0.62	0.57	0.60	0.55	0.51	0.51	0.48	0.44	0.44	0.41	0.39	0.35
4	0.76	0.65	0.57	0.51	0.70	0.61	0.54	0.48	0.53	0.48	0.43	0.46	0.42	0.38	0.39	0.36	0.33	0.30
5	0.70	0.58	0.50	0.44	0.65	0.55	0.47	0.42	0.48	0.42	0.37	0.41	0.37	0.33	0.35	0.32	0.29	0.26
6	0.64	0.52	0.44	0.38	0.60	0.49	0.42	0.36	0.43	0.37	0.33	0.37	0.33	0.29	0.32	0.29	0.26	0.23
7	0.60	0.47	0.39	0.34	0.55	0.44	0.37	0.32	0.39	0.33	0.29	0.34	0.29	0.26	0.29	0.26	0.23	0.20
8	0.55	0.43	0.35	0.30	0.51	0.40	0.33	0.28	0.36	0.30	0.26	0.31	0.27	0.23	0.27	0.23	0.21	0.18
9	0.52	0.39	0.32	0.27	0.48	0.37	0.30	0.25	0.33	0.27	0.23	0.29	0.24	0.21	0.25	0.21	0.19	0.17
10	0.48	0.36	0.29	0.24	0.45	0.34	0.27	0.23	0.30	0.25	0.21	0.27	0.22	0.19	0.23	0.20	0.17	0.15

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

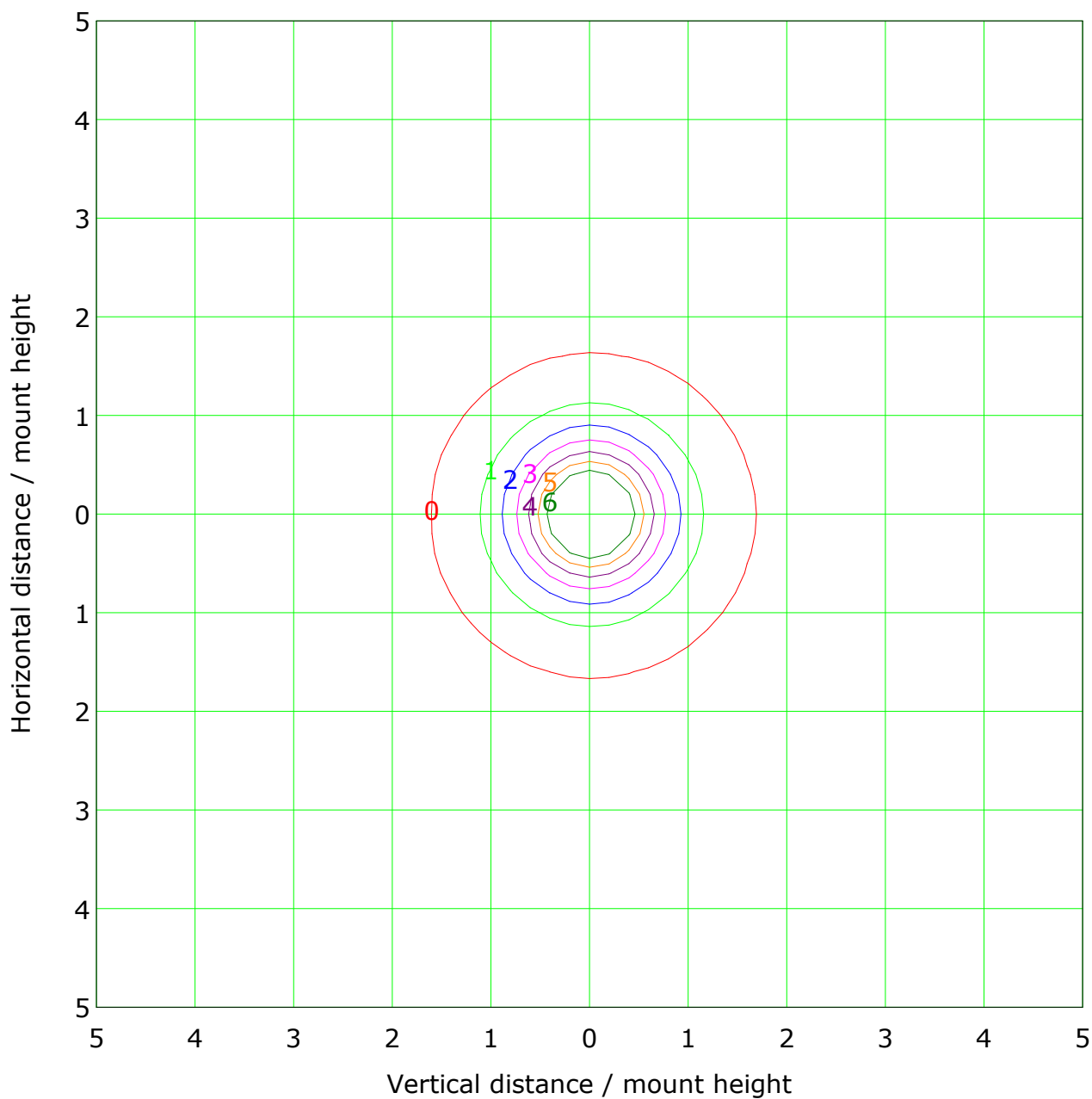
Test Device: GPM-1600L

Distance: 13.500 m [K=1.0000]

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 8.6 lx	
(5%):	0.4 lx	(15%):	1.3 lx
(25%):	2.2 lx	(35%):	3.0 lx
(45%):	3.9 lx	(55%):	4.8 lx
(65%):	5.6 lx		

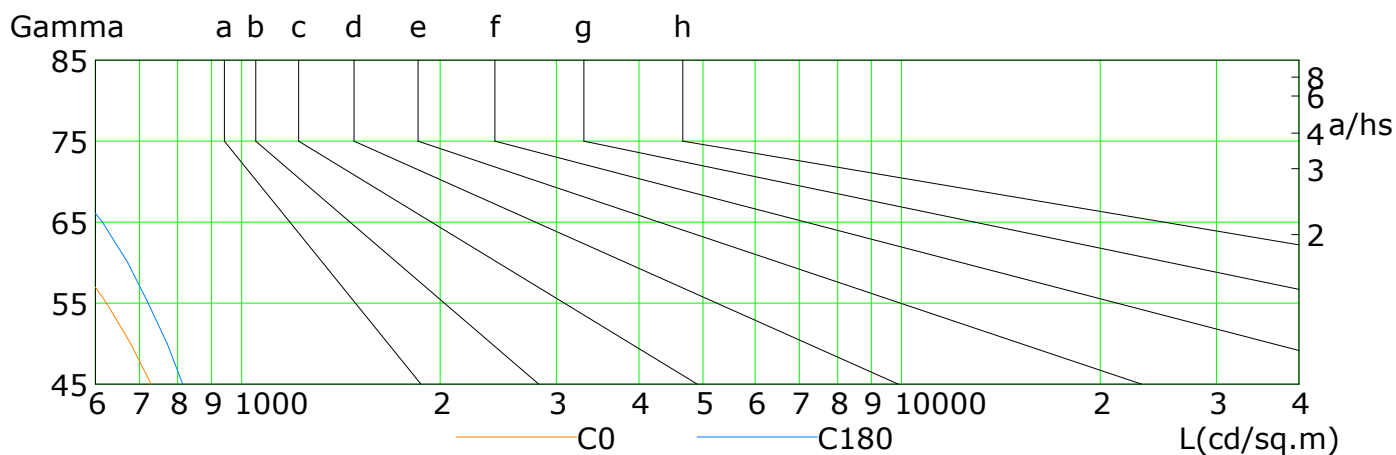
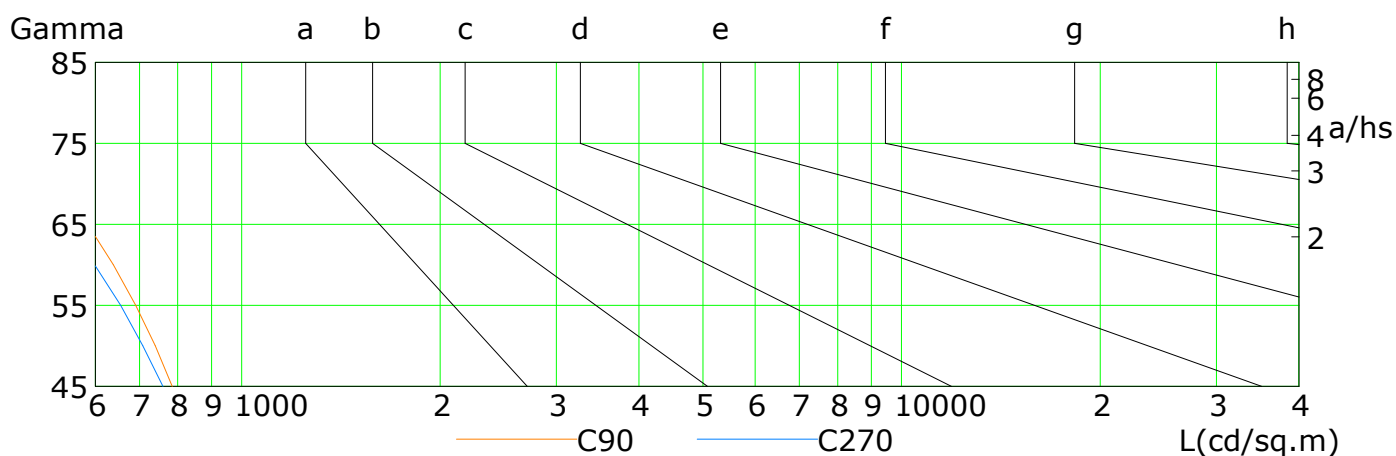
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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	730	679	624	565	499	422	330	217	62
C90	785	740	691	639	584	519	441	347	212
C180	815	771	722	672	615	551	476	381	254
C270	760	709	656	598	535	462	377	269	115

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

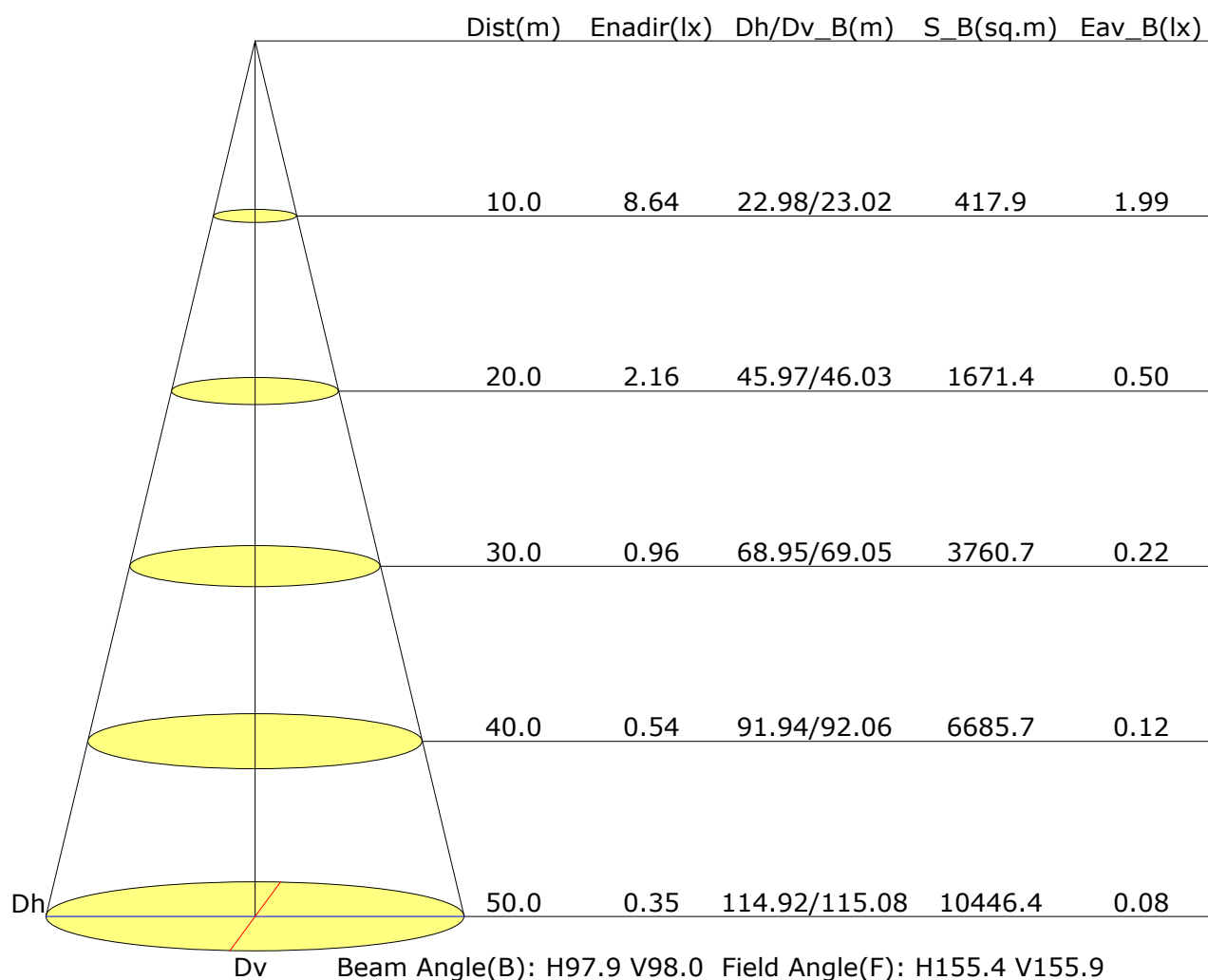
Test Device: GPM-1600L

Distance: 13.500 m [K=1.0000]

Humidity:

Inspector:

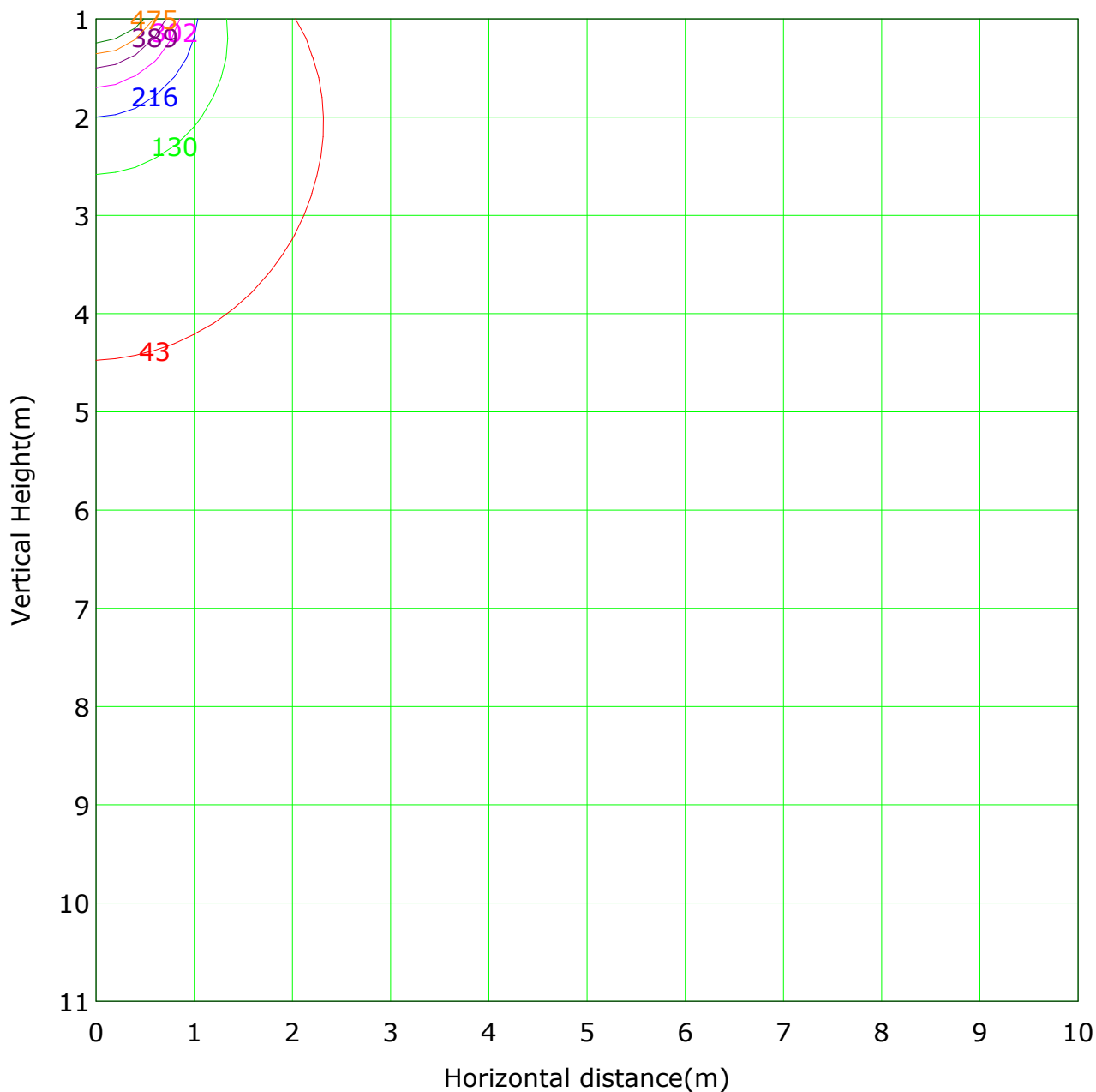
Illuminance at a Distance



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



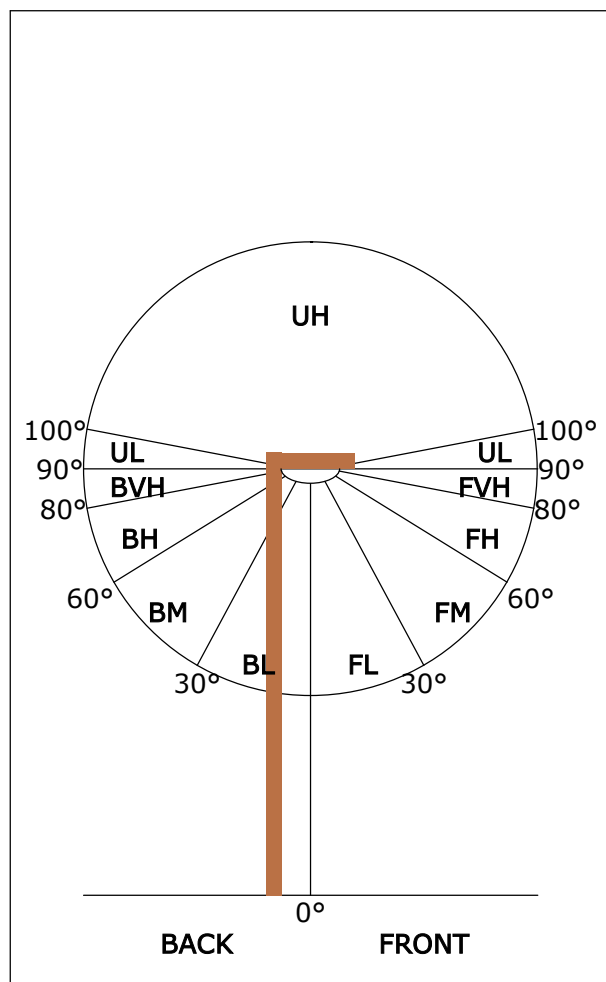
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 864.0 lx

(5%): 43.2 lx	(15%): 129.6 lx
(25%): 216.0 lx	(35%): 302.4 lx
(45%): 388.8 lx	(55%): 475.2 lx
(65%): 561.6 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	1061	28.8
FL (0°-30°)	323	8.8
FM (30°-60°)	541	14.7
FH (60°-80°)	180	4.9
FVH (80°-90°)	16	0.4
BACK LIGHT	1036	28.1
BL (0°-30°)	321	8.7
BM (30°-60°)	532	14.4
BH (60°-80°)	170	4.6
BVH (80°-90°)	13	0.4
UP LIGHT	1585	43.1
UL (90°-100°)	14	0.4
UH (100°-180°)	1571	42.7
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

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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]
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