

Report No.:

Test Time: 2021-04-14 17:04

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: E18003-5000K

Lamp Description: 2835

Current: 0.248 A

Power Factor: 0.948

Lamp Catalog: LED

Voltage: 120.0 V

Power: 28.26 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1966.7 lm

Downward Ratio: 96%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.8, 165.6, 165.7, 165.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.0, 114.1, 114.1, 114.1

Luminaire Efficacy Rating (LER): 69.64

Max. Intensity: 639.12 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 1966.7 lm

Efficiency: 100%

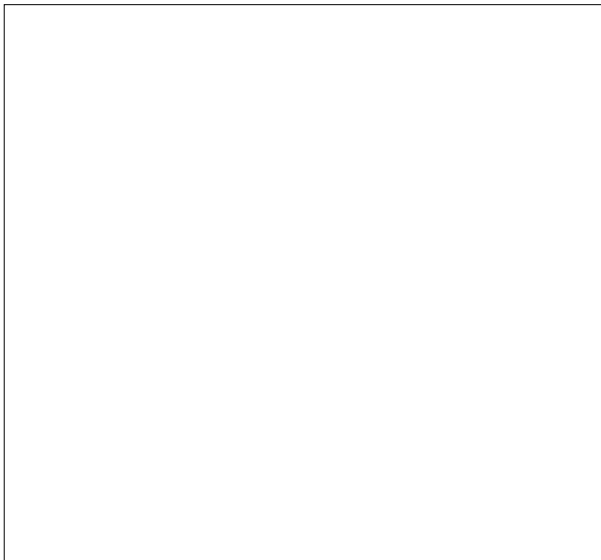
Upward Ratio: 4%

Central Intensity: 638.97 cd

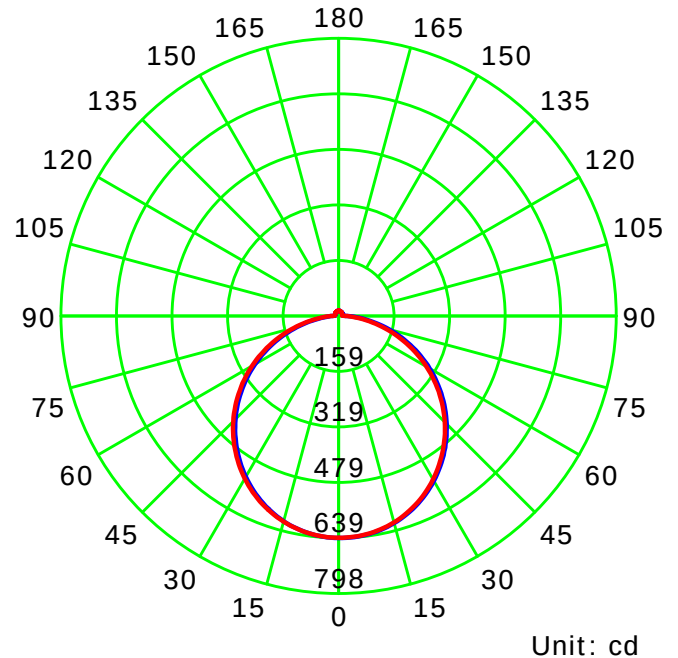
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



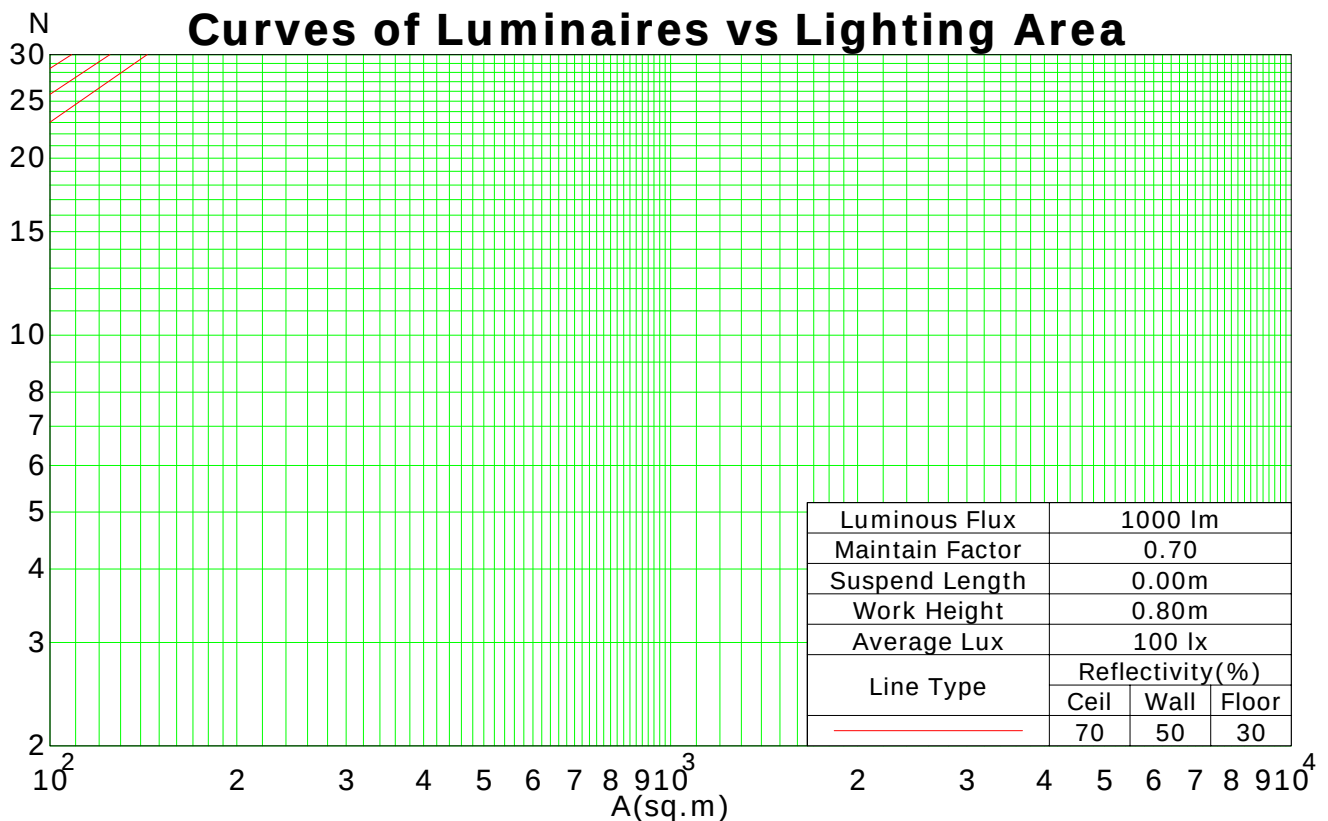
Coefficients Of Utilization - Zonal Cavity Method

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	102	98	94	104	100	96	92	95	91	88	90	87	85	86	84	81	79
2	97	89	82	76	94	87	80	75	82	77	72	78	74	70	75	71	68	65
3	89	78	69	63	86	76	68	62	72	66	60	69	63	59	66	61	57	55
4	81	69	60	53	78	67	59	52	64	57	51	61	55	50	59	53	49	47
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	40
6	69	55	46	40	66	54	45	39	52	44	39	50	43	38	48	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	44	38	33	31
8	59	46	37	31	57	45	36	31	43	36	30	41	35	30	40	34	30	28
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25
10	52	38	31	25	50	38	30	25	37	30	25	35	29	24	34	28	24	22

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.26

Spacing Criteria (Diagonal): 1.38



C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

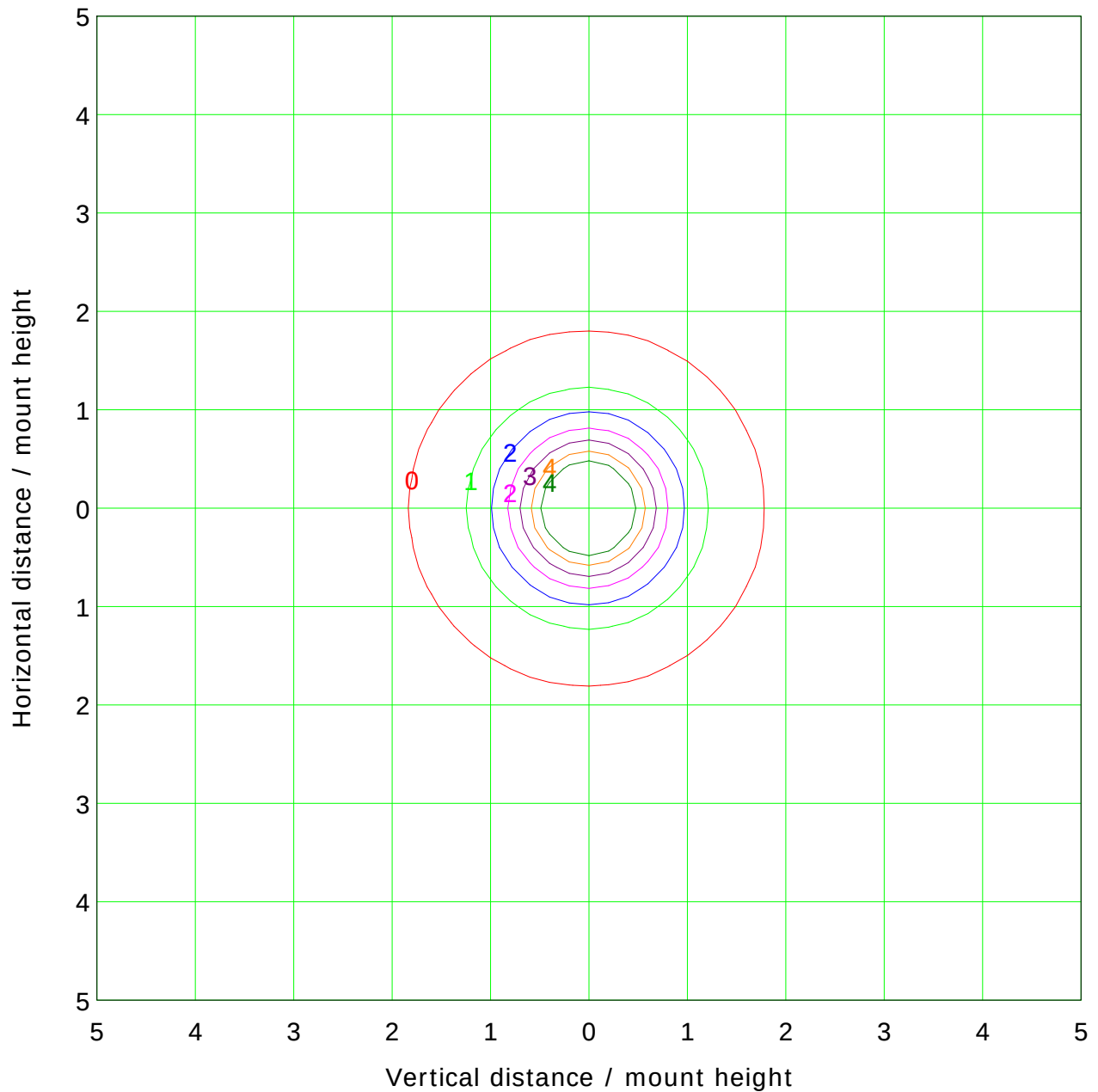
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 6.4 lx	
(5%):	0.3 lx	(15%):	1.0 lx
(25%):	1.6 lx	(35%):	2.2 lx
(45%):	2.9 lx	(55%):	3.5 lx
(65%):	4.2 lx		

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 7.344 m

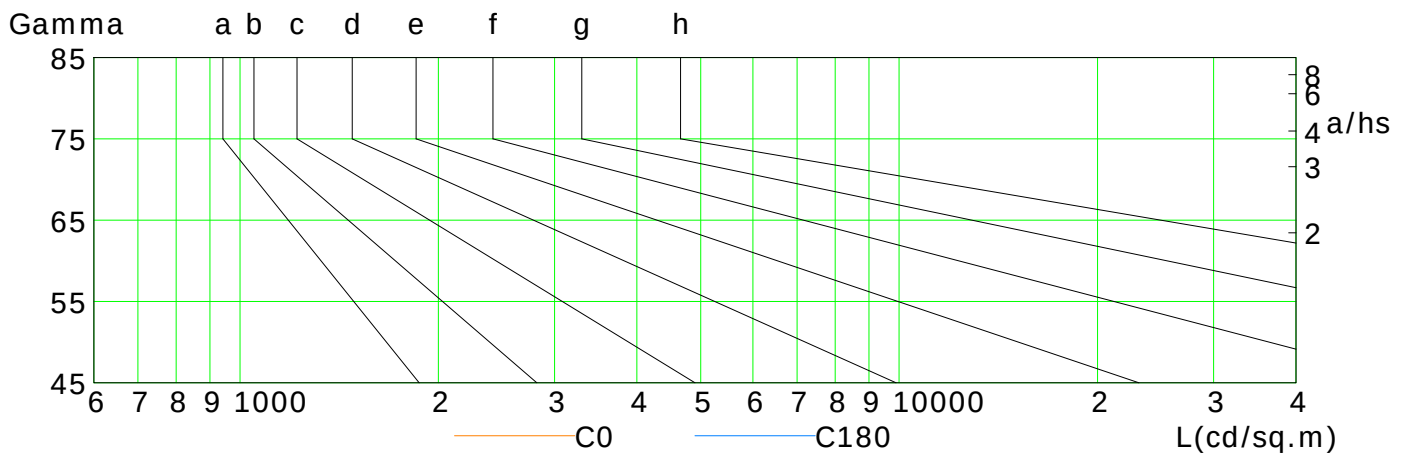
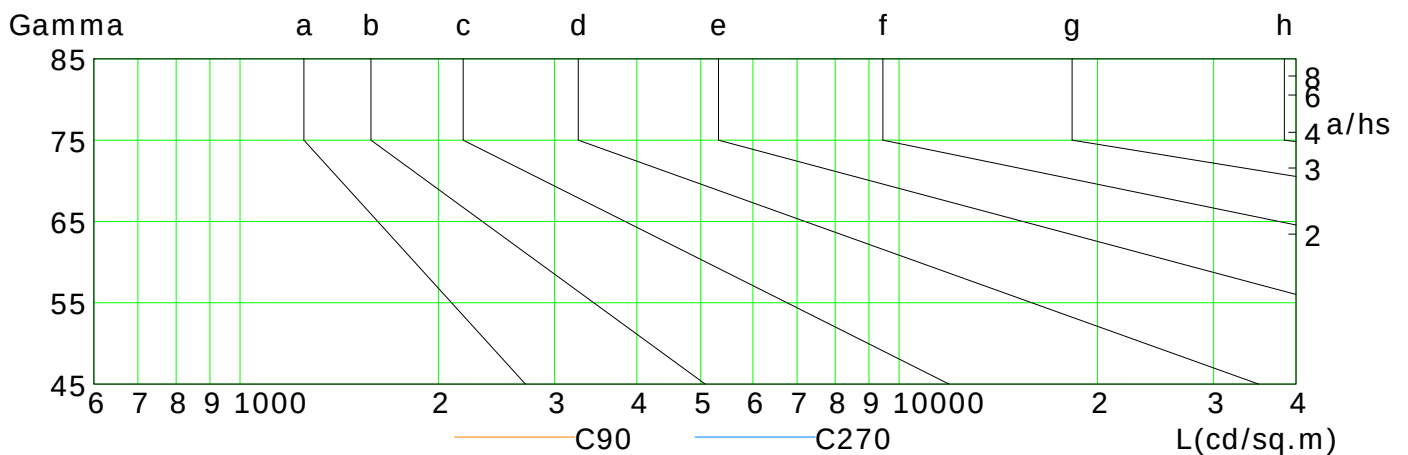
Humidity:

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	440	397	351	302	253	202	151	101	58
C90	432	388	341	292	241	189	138	90	48
C180	420	375	328	278	227	175	124	77	39
C270	429	385	338	288	237	185	134	86	46

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

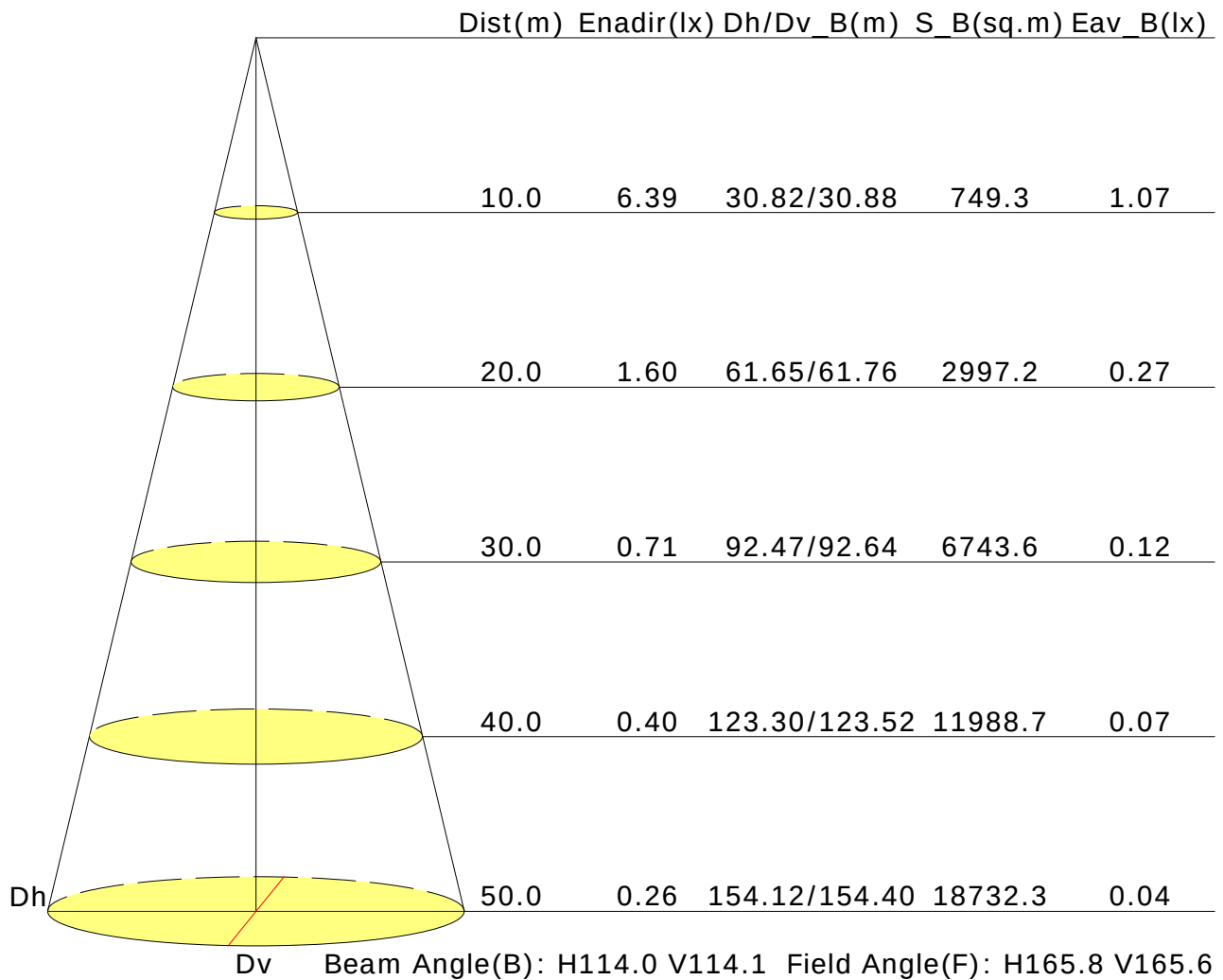
Test Device: GPM-1600L

Distance: 7.344 m

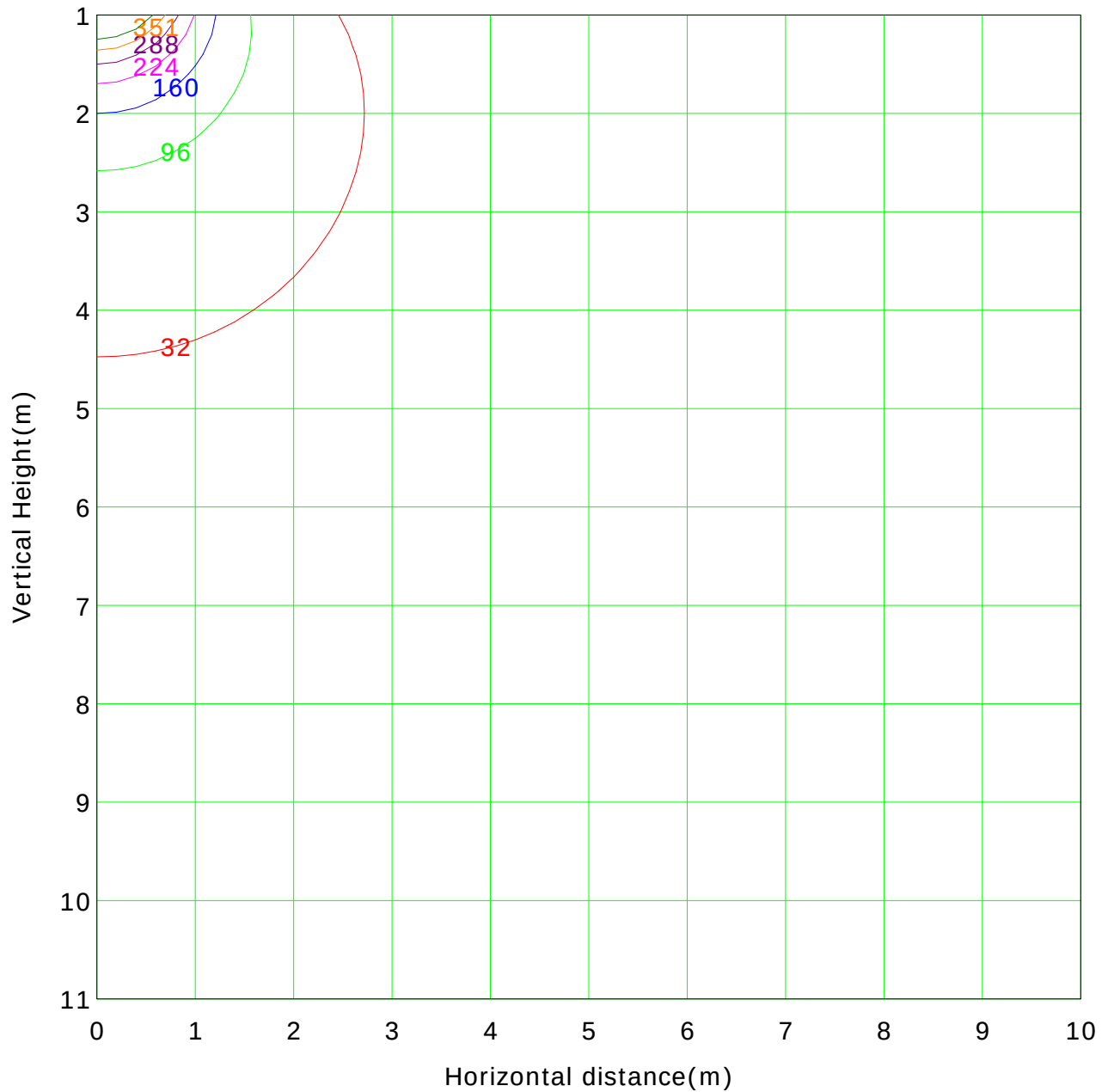
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



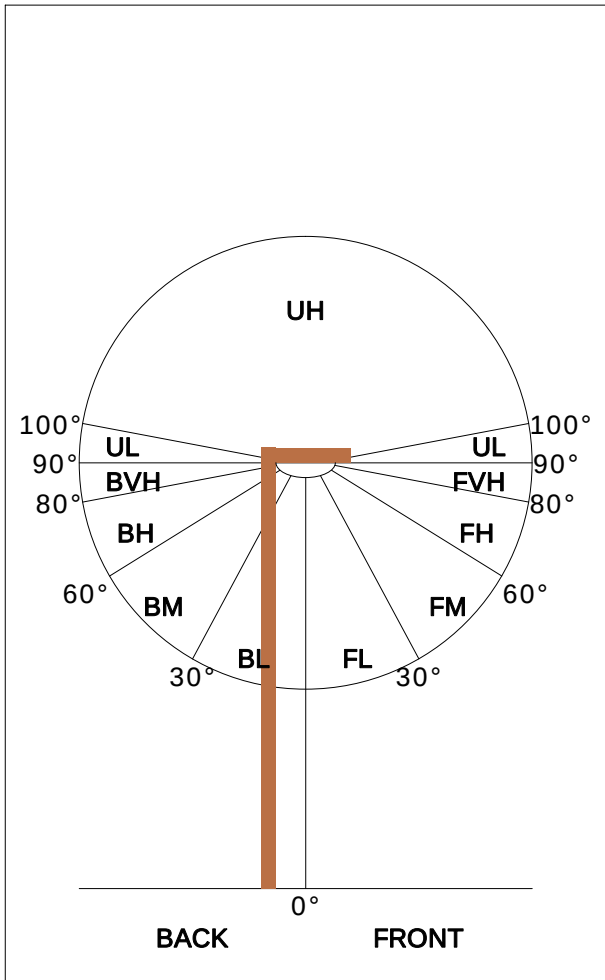
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 639.0 lx

(5%): 31.9 lx	(15%): 95.8 lx
(25%): 159.7 lx	(35%): 223.6 lx
(45%): 287.5 lx	(55%): 351.4 lx
(65%): 415.3 lx	

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 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 7.344 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	945	48.1
	FL (0°-30°)	249	12.6
	FM (30°-60°)	477	24.3
	FH (60°-80°)	192	9.8
	FVH (80°-90°)	28	1.4
	BACK LIGHT	940	47.8
	BL (0°-30°)	248	12.6
	BM (30°-60°)	475	24.2
	BH (60°-80°)	190	9.6
	BVH (80°-90°)	27	1.4
	UP LIGHT	81	4.1
	UL (90°-100°)	15	0.8
	UH (100°-180°)	66	3.4
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U2 G1

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Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

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