

Report No.:

Test Time: 2021-04-14 16:51

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: E18003-3000K

Lamp Description: 2835

Current: 0.249 A

Power Factor: 0.949

Lamp Catalog: LED

Voltage: 120.0 V

Power: 28.40 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1925.7 lm

Downward Ratio: 96%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.0, 166.1, 166.0, 166.0

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

Luminaire Efficacy Rating (LER): 67.85

Max. Intensity: 626.16 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 1925.7 lm

Efficiency: 100%

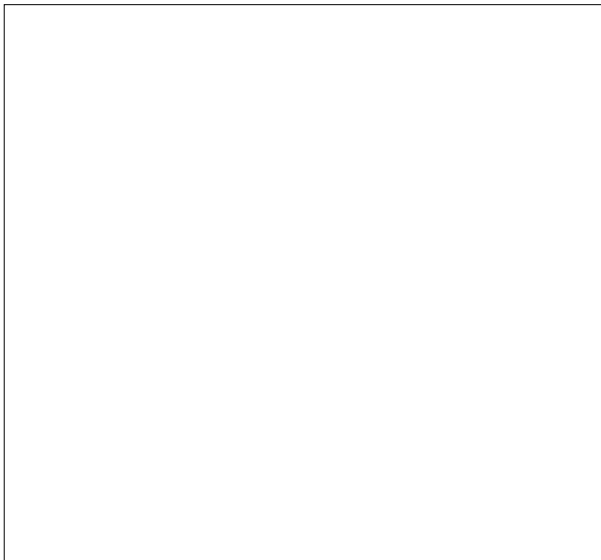
Upward Ratio: 4%

Central Intensity: 626.03 cd

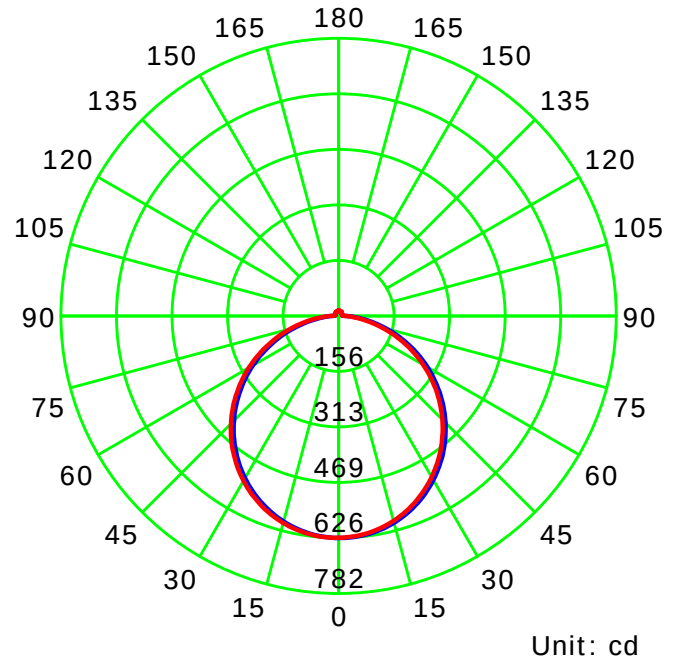
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

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:

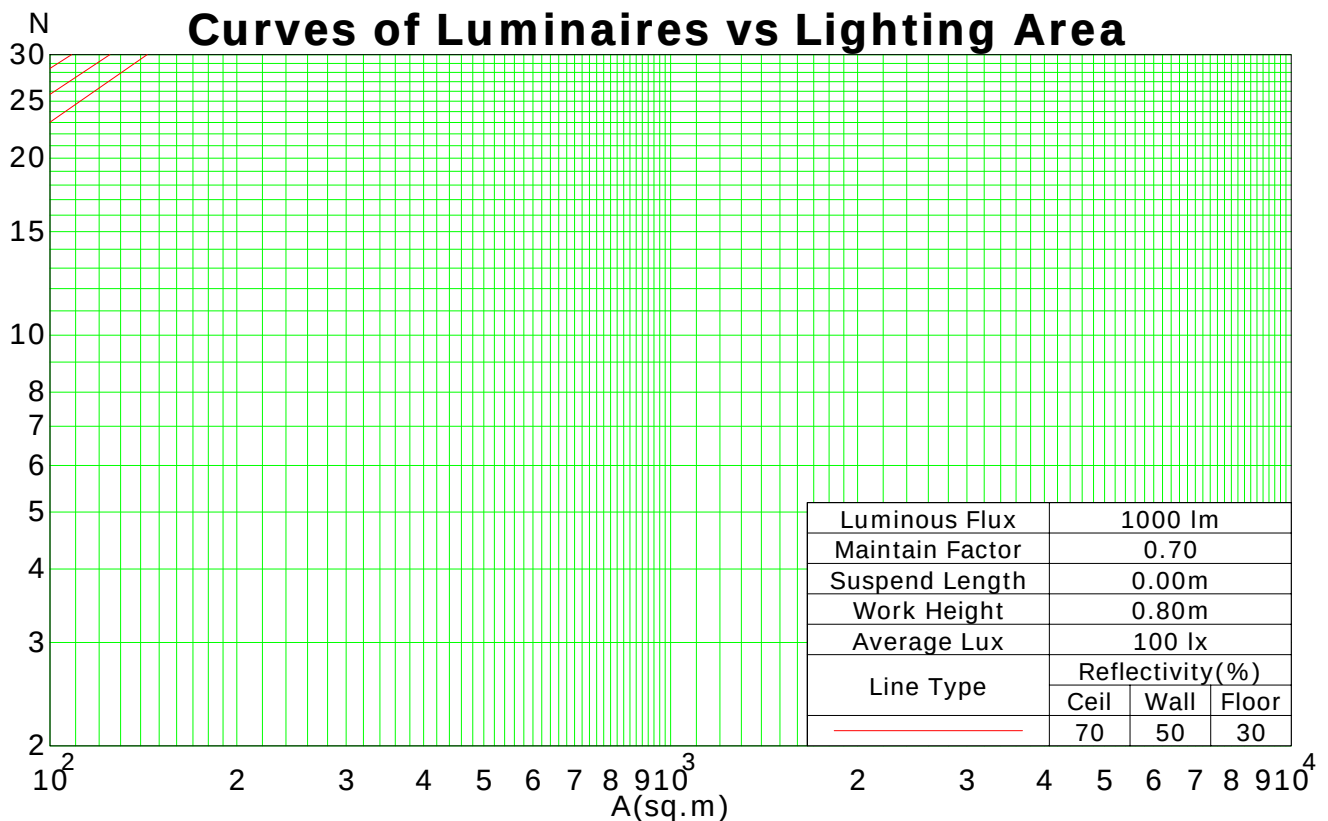
Coefficients Of Utilization - Zonal Cavity Method

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	82	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

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Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

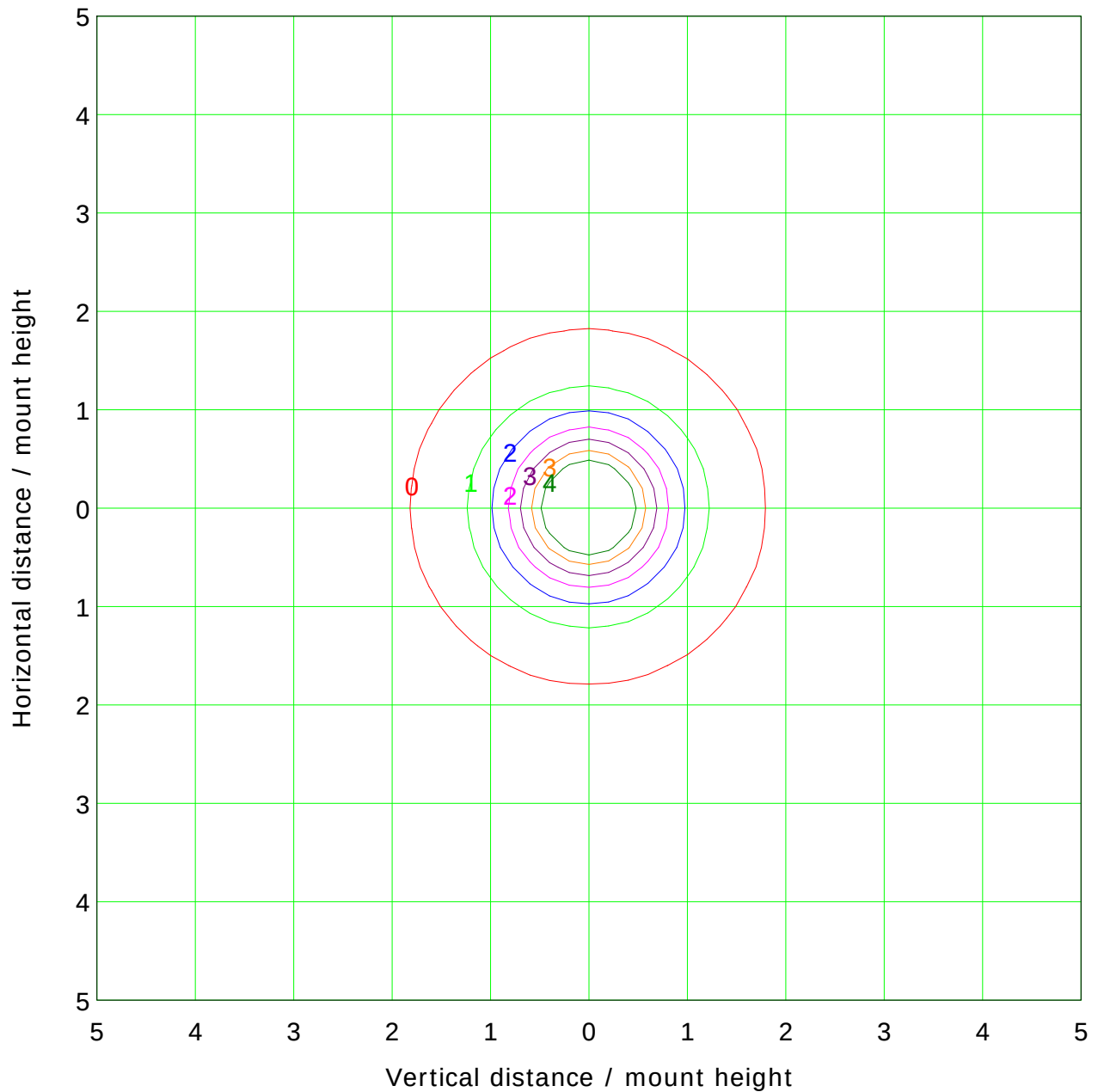
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 6.3 lx	
— (5%):	0.3 lx	— (15%):	0.9 lx
— (25%):	1.6 lx	— (35%):	2.2 lx
— (45%):	2.8 lx	— (55%):	3.4 lx
— (65%):	4.1 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

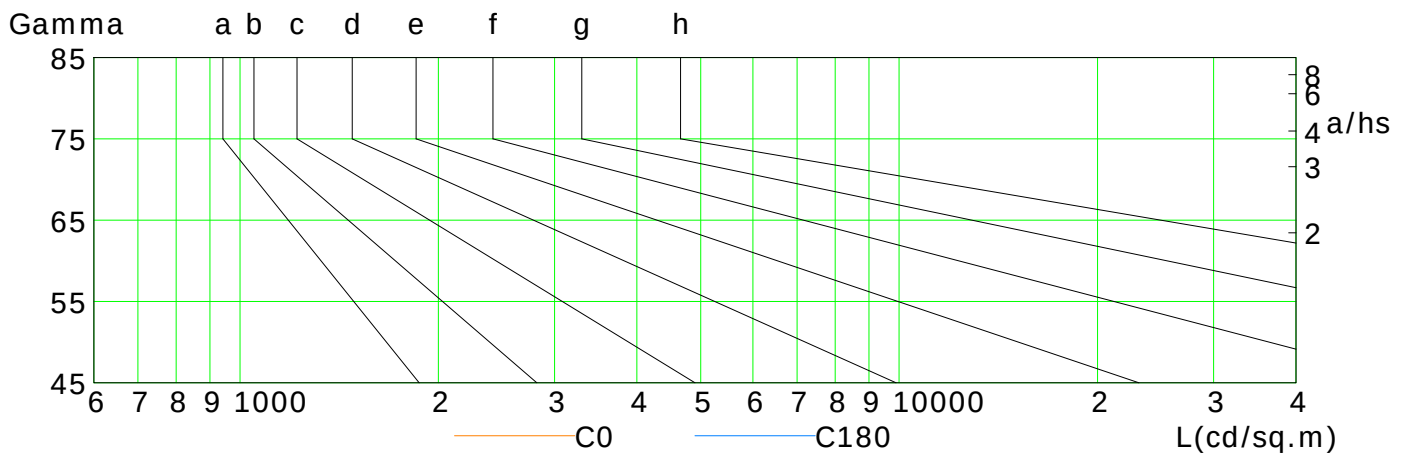
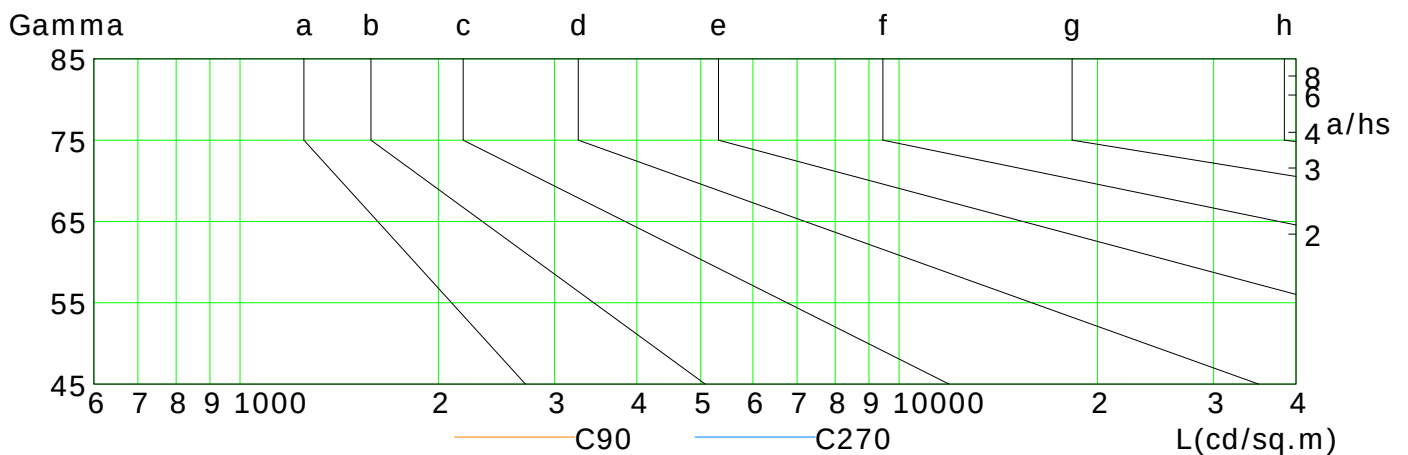
Humidity:

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	426	383	338	289	240	190	140	93	52
C90	414	370	324	275	226	175	126	81	43
C180	417	374	328	279	229	178	128	82	43
C270	429	387	341	293	243	192	142	95	53

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Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

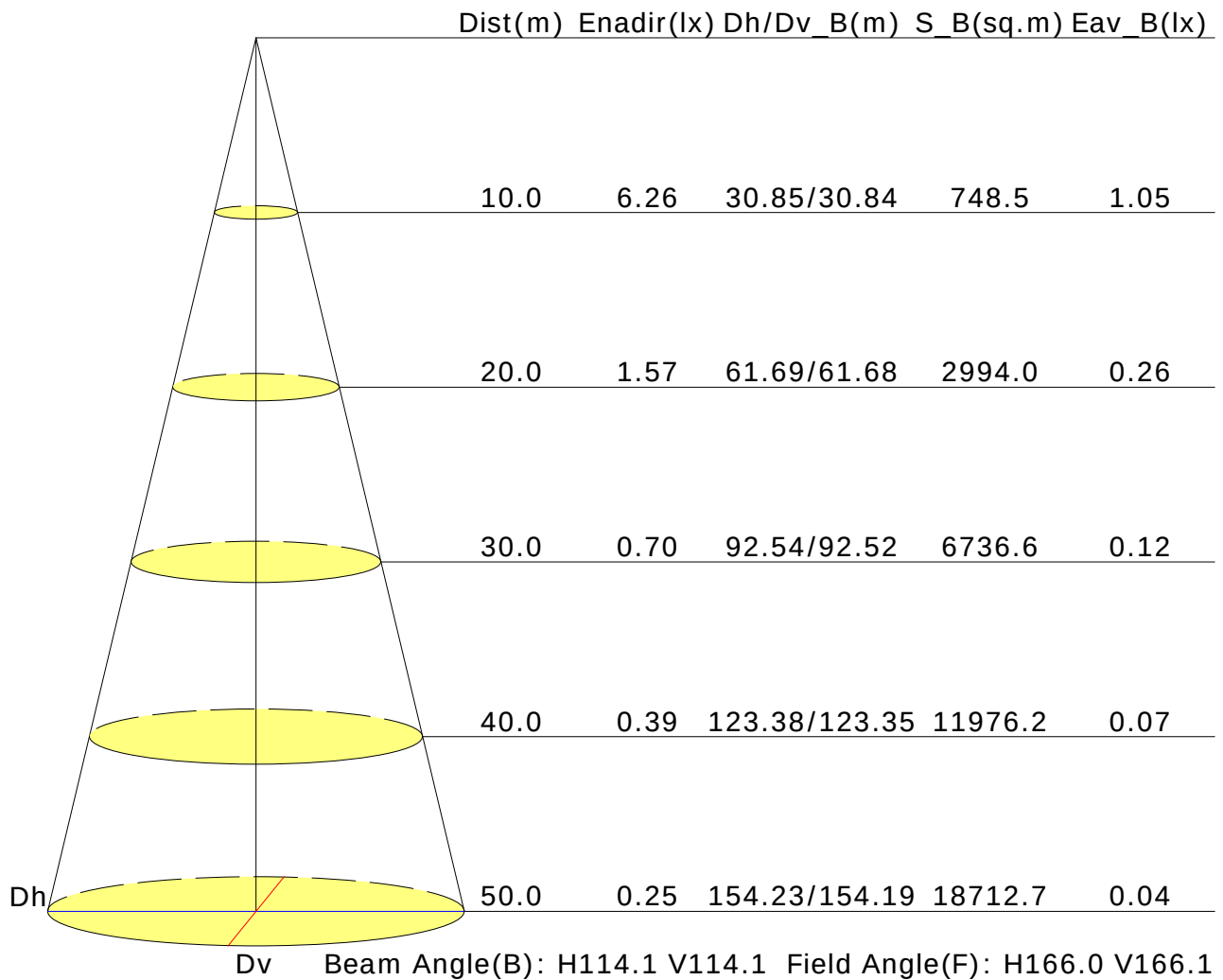
Test Device: GPM-1600L

Distance: 7.344 m

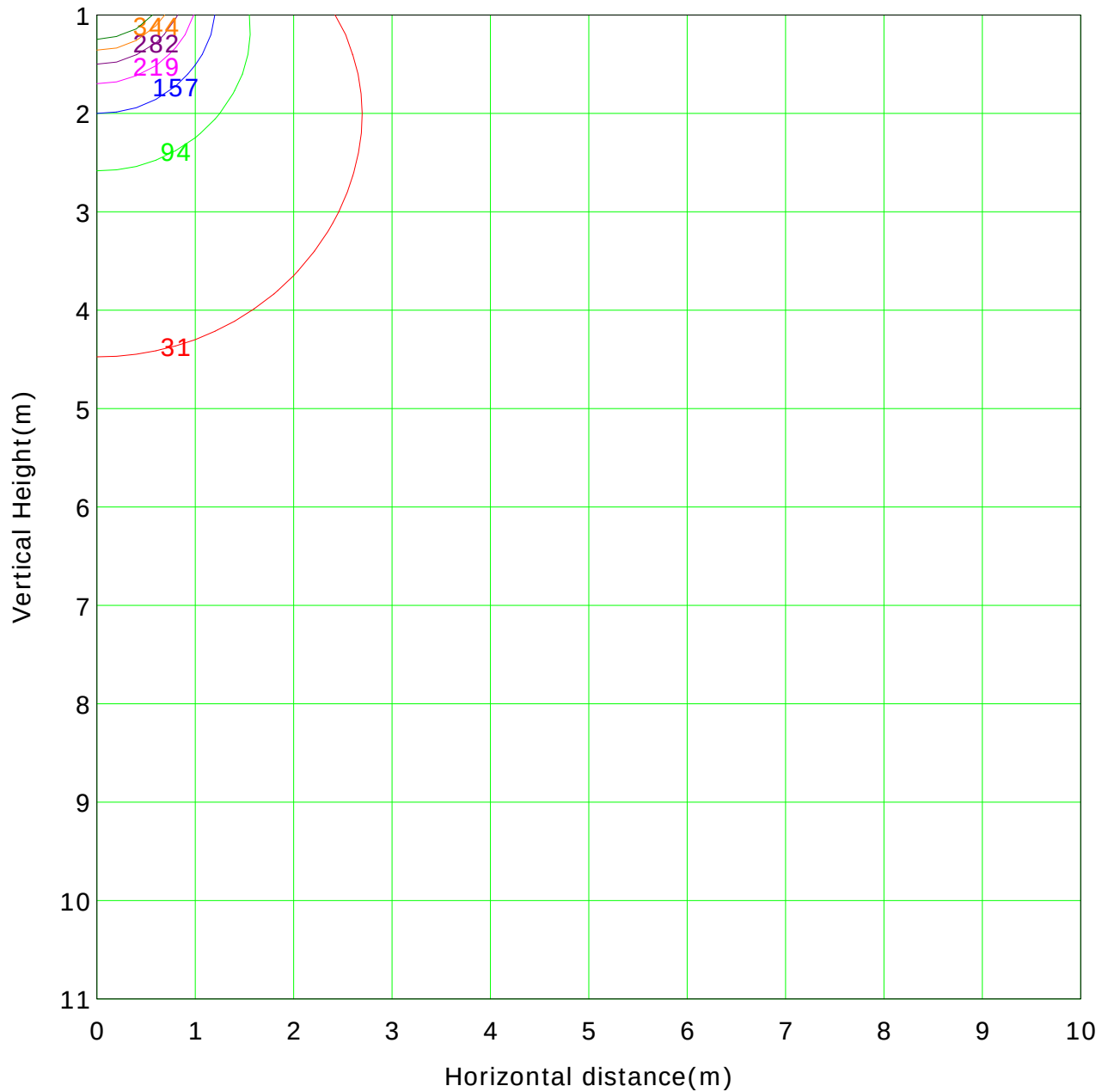
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



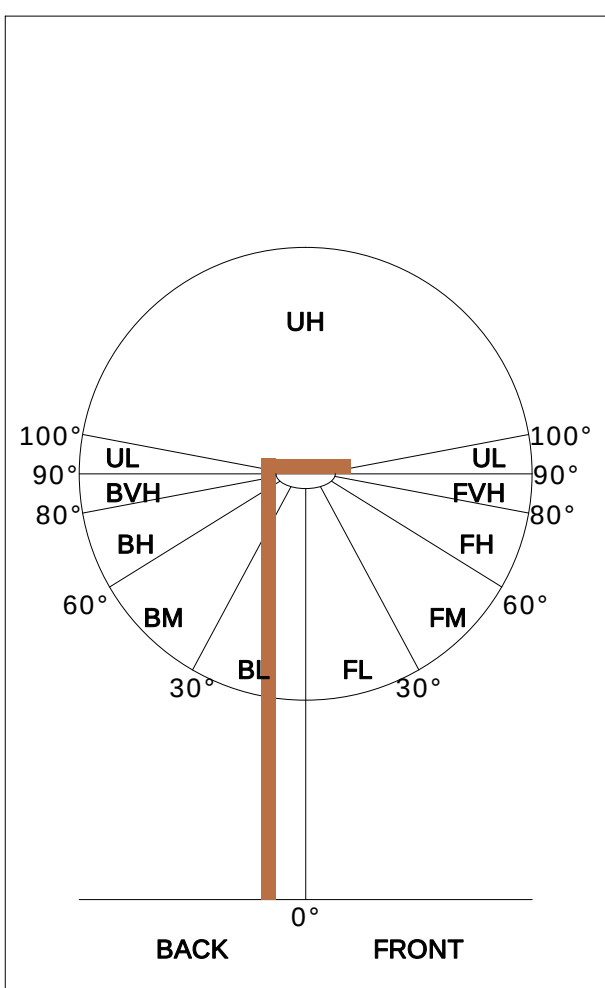
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 626.0 lx

(5%): 31.3 lx	(15%): 93.9 lx
(25%): 156.5 lx	(35%): 219.1 lx
(45%): 281.7 lx	(55%): 344.3 lx
(65%): 406.9 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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	914	47.5
	FL (0°-30°)	242	12.6
	FM (30°-60°)	462	24.0
	FH (60°-80°)	183	9.5
	FVH (80°-90°)	26	1.4
	BACK LIGHT	936	48.6
	BL (0°-30°)	244	12.7
	BM (30°-60°)	472	24.5
	BH (60°-80°)	191	9.9
	BVH (80°-90°)	29	1.5
	UP LIGHT	76	4.0
	UL (90°-100°)	15	0.8
	UH (100°-180°)	61	3.2
	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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