

Report No.:

Test Time: 2021-04-13 16:24

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17002-4000K

Lamp Description: 2835

Current: 0.200 A

Power Factor: 0.935

Lamp Catalog: LED

Voltage: 120.0 V

Power: 22.48 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1874.9 lm

Downward Ratio: 91%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 173.1, 173.3, 173.4, 173.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 118.3, 118.2, 118.2, 118.3

Luminaire Efficacy Rating (LER): 83.45

Max. Intensity: 545.54 cd

S/MH(C0/C180): 1.28

Total Rated Lamp Lumens: 1874.9 lm

Efficiency: 100%

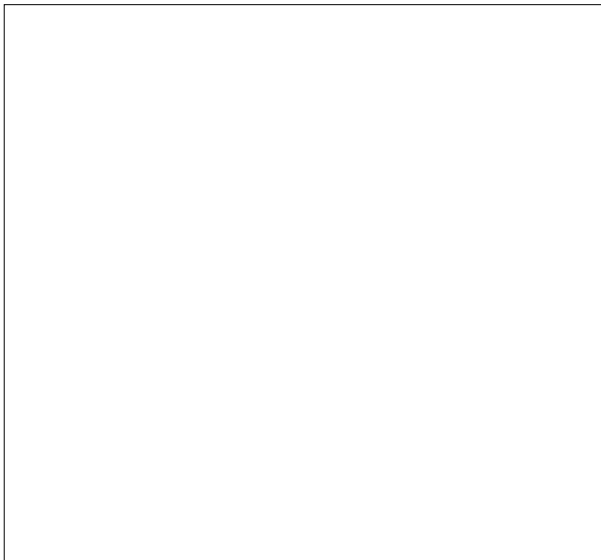
Upward Ratio: 9%

Central Intensity: 545.07 cd

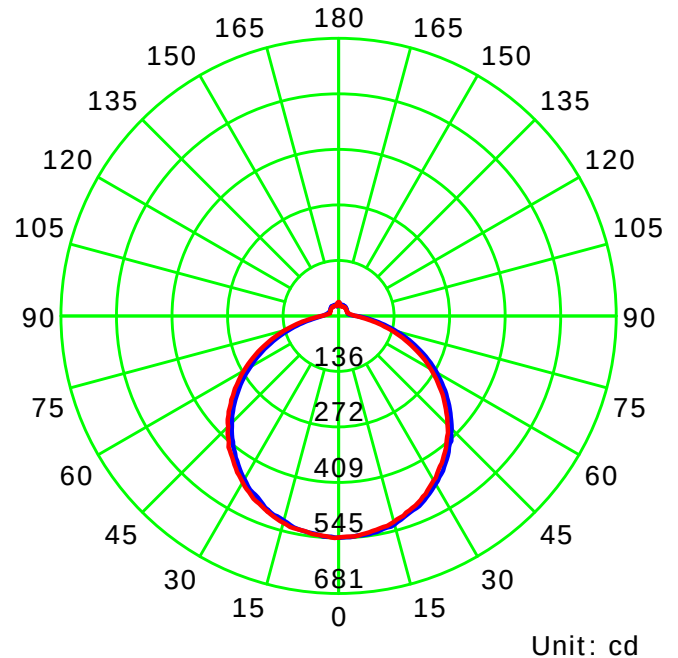
Pos of Max. Intensity: H270 V1

S/MH(C90/C270): 1.28

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:

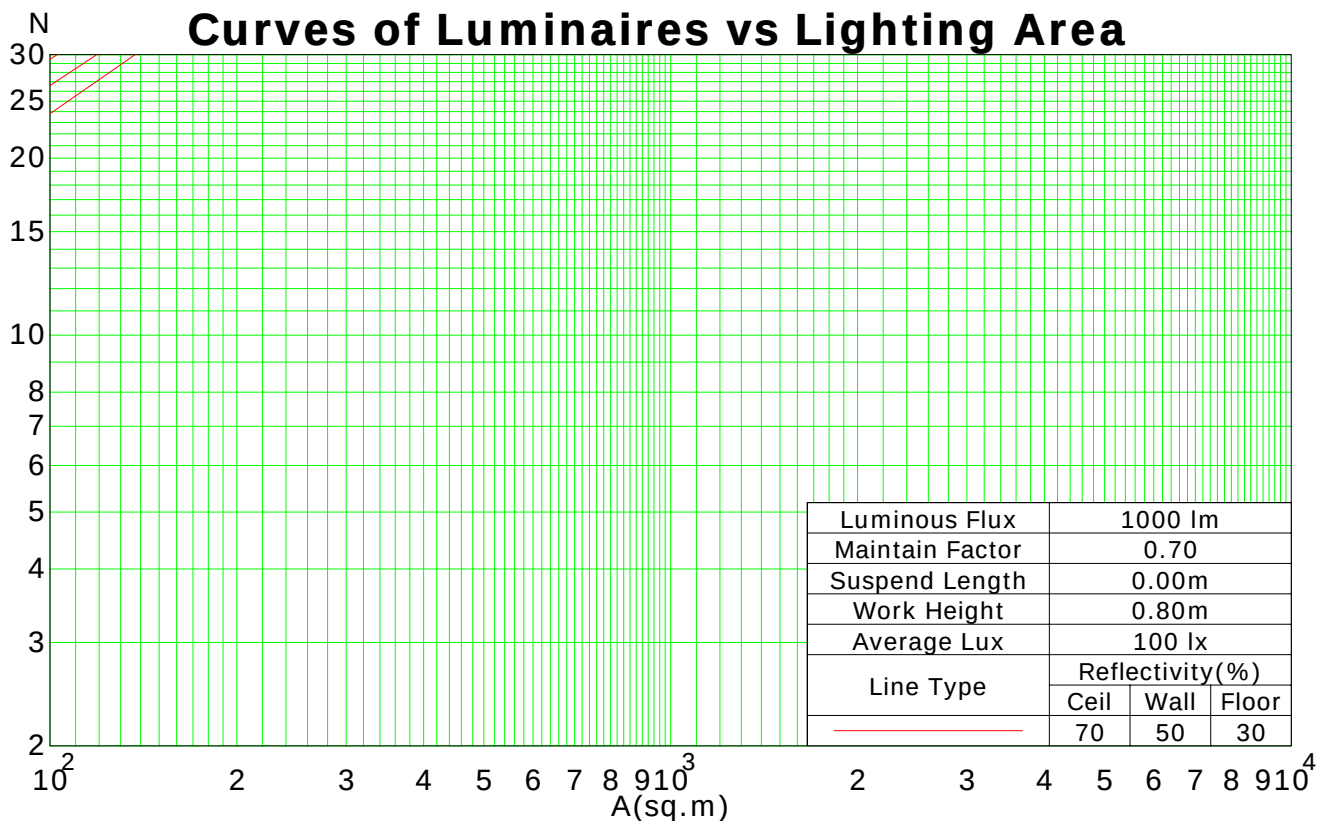
Coefficients Of Utilization - Zonal Cavity Method

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	106	100	96	92	102	97	93	89	91	88	85	86	83	81	81	79	77	74
2	96	87	80	74	92	84	78	72	79	74	69	74	70	66	70	67	63	61
3	87	76	67	61	84	74	66	60	69	63	57	65	60	55	62	57	53	51
4	79	67	58	51	76	65	57	50	61	54	49	58	52	47	55	50	45	43
5	73	60	50	44	70	58	49	43	55	47	42	52	45	40	49	44	39	37
6	67	54	44	38	65	52	44	37	49	42	36	47	40	35	44	39	34	32
7	62	48	40	33	60	47	39	33	45	37	32	43	36	31	41	35	30	28
8	58	44	35	30	56	43	35	29	41	34	29	39	33	28	37	31	27	25
9	54	40	32	27	52	39	32	26	38	31	26	36	30	25	34	29	24	22
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	20

Spacing Criteria (0-180): 1.28

Spacing Criteria (90-270): 1.28

Spacing Criteria (Diagonal): 1.41



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Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

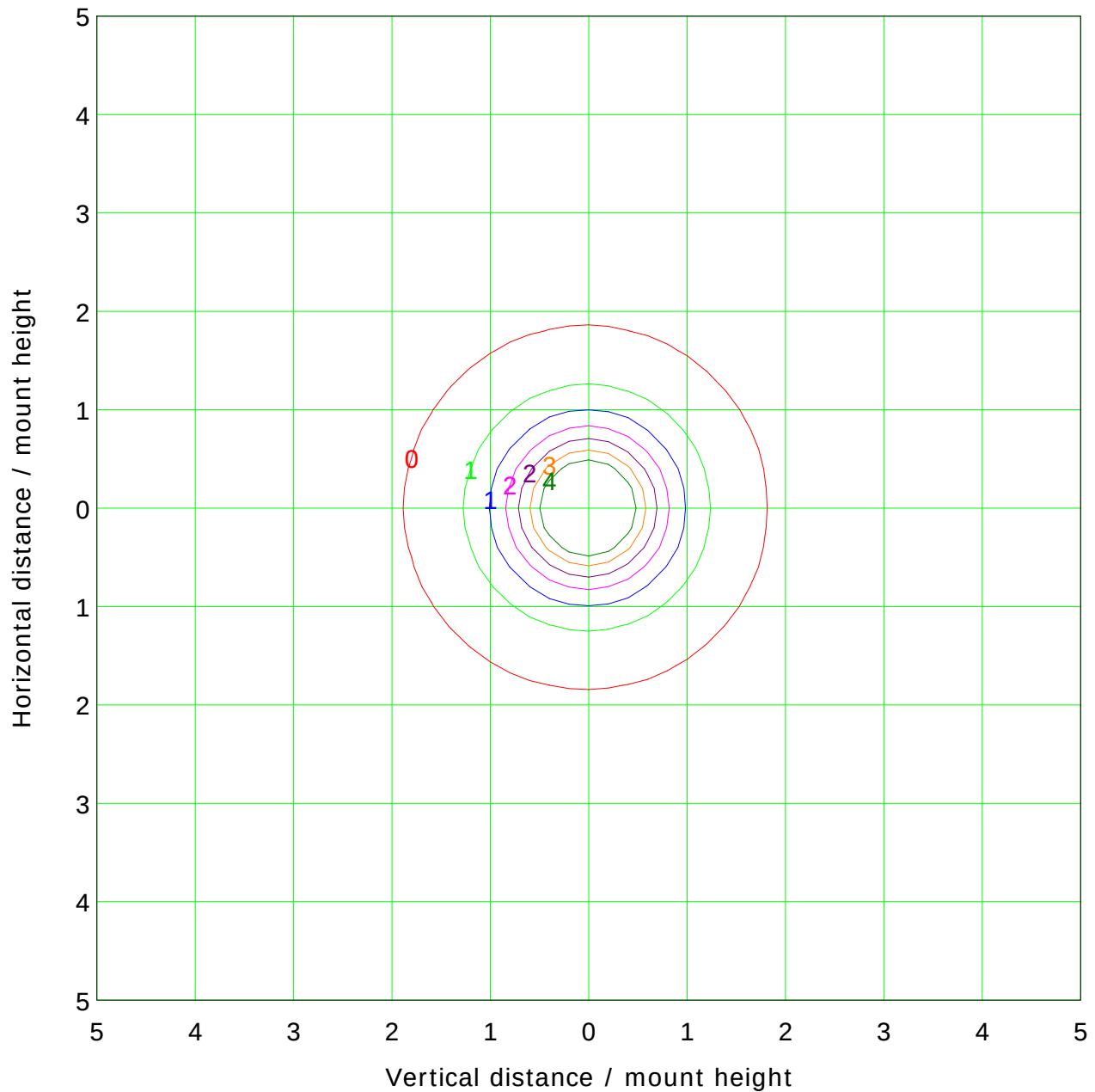
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 5.5 lx	
(5%):	0.3 lx	(15%):	0.8 lx
(25%):	1.4 lx	(35%):	1.9 lx
(45%):	2.5 lx	(55%):	3.0 lx
(65%):	3.5 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

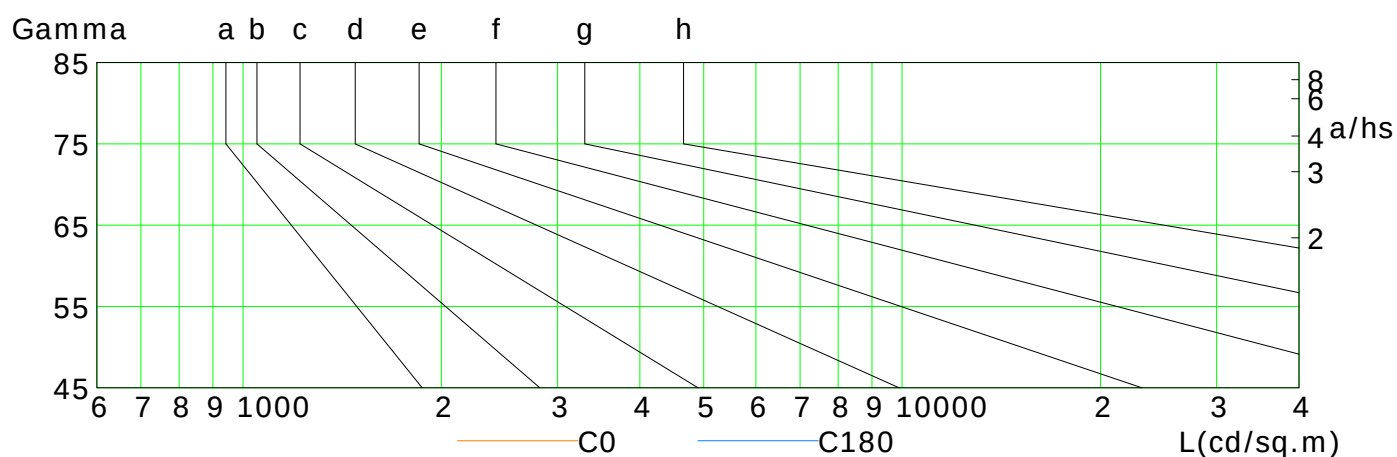
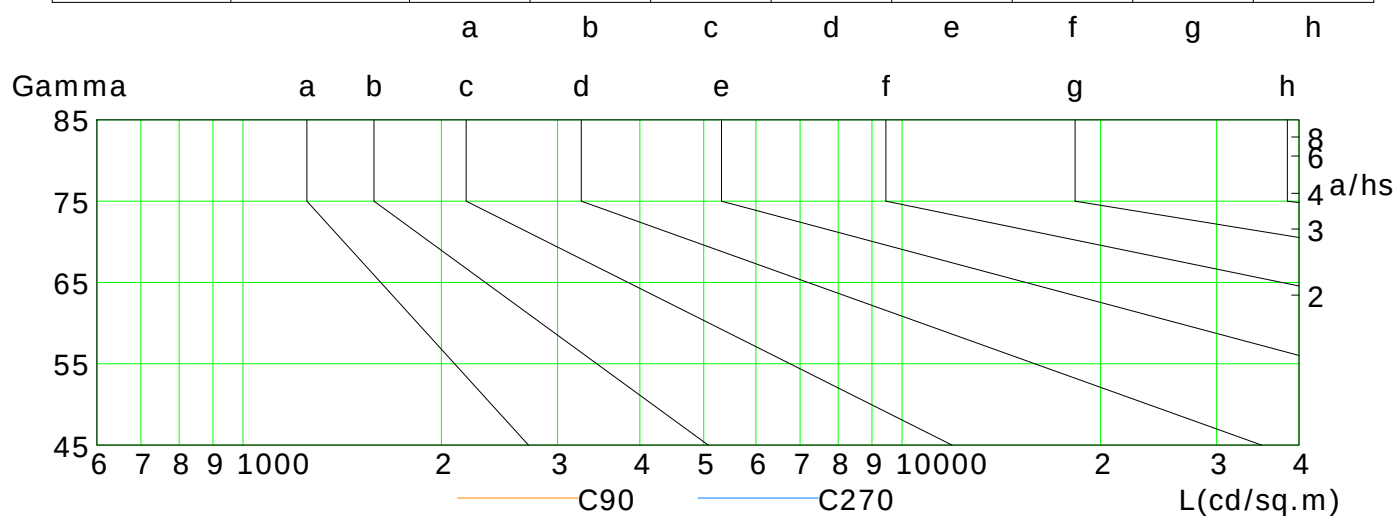
Distance: 7.344 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	393	356	319	278	236	192	148	106	70
C90	378	341	302	262	219	174	132	93	61
C180	371	334	295	251	208	163	121	84	56
C270	384	348	311	269	225	181	138	97	64

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

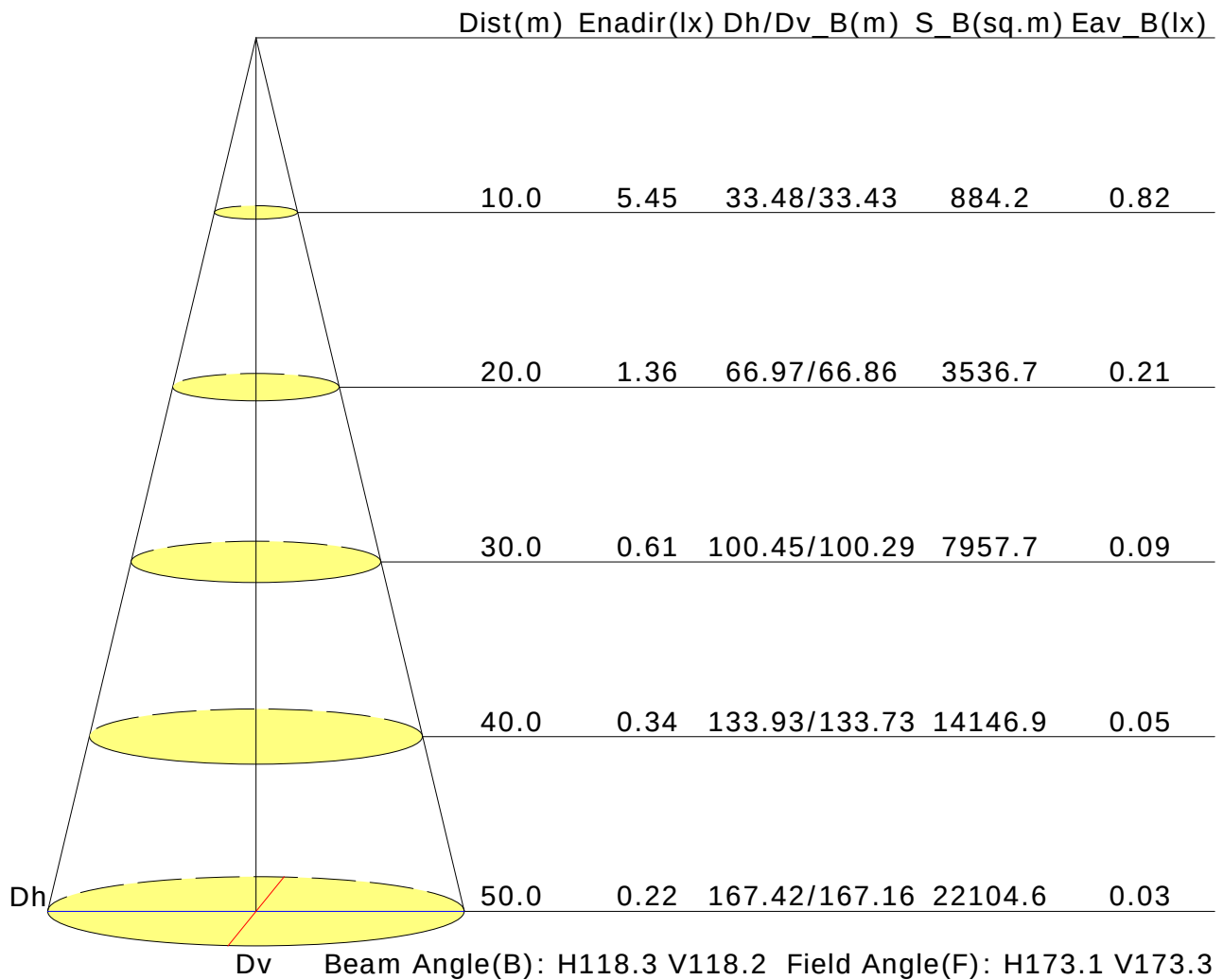
Test Device: GPM-1600L

Distance: 7.344 m

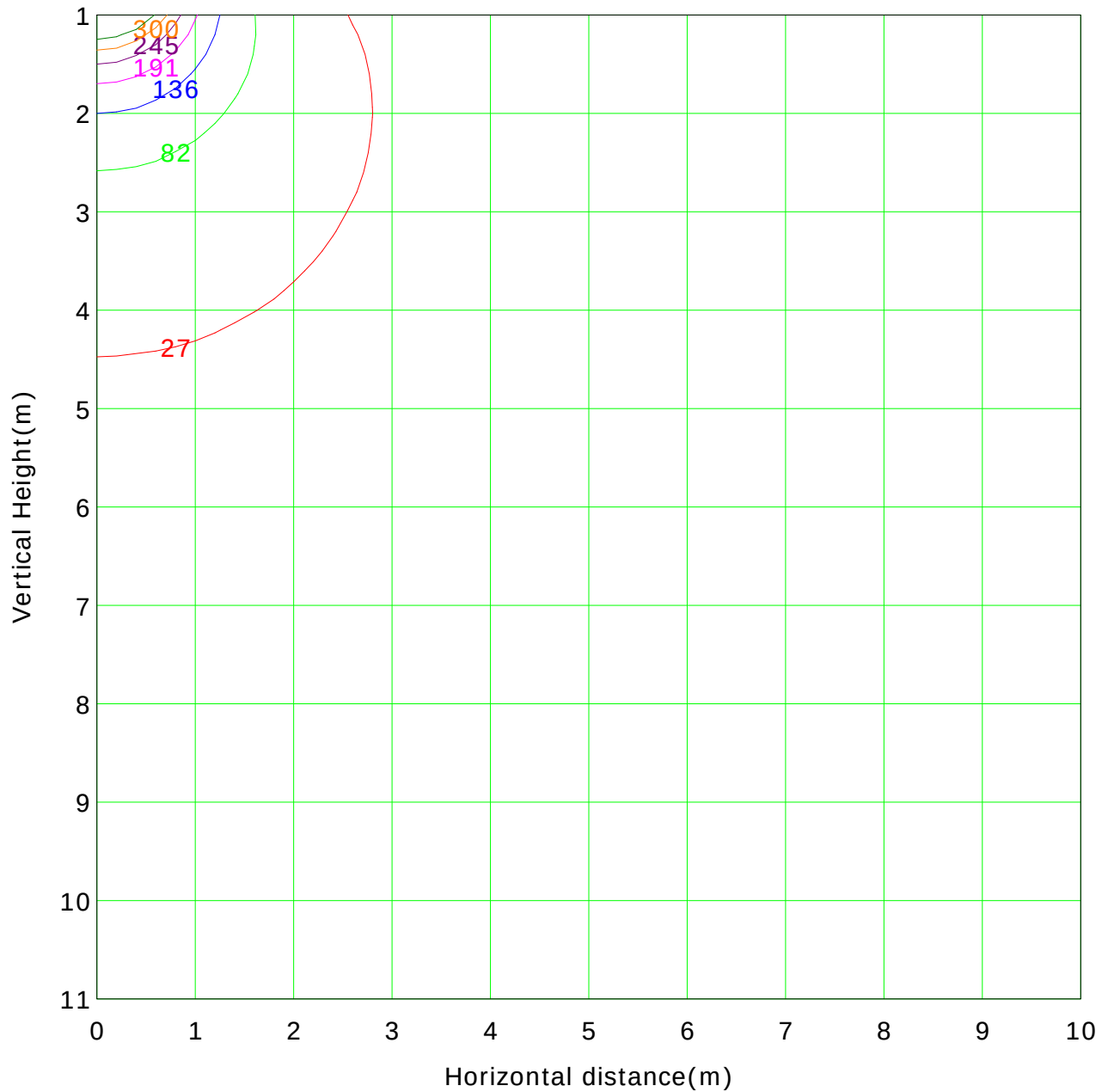
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



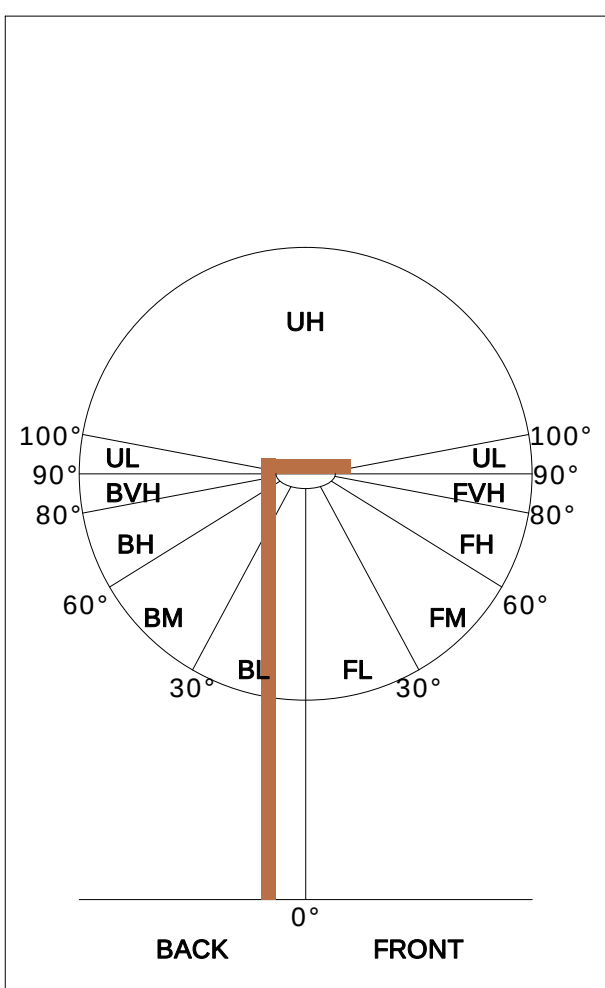
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 545.1 lx

(5%): 27.3 lx	(15%): 81.8 lx
(25%): 136.3 lx	(35%): 190.8 lx
(45%): 245.3 lx	(55%): 299.8 lx
(65%): 354.3 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	849	45.3
	FL (0°-30°)	213	11.4
	FM (30°-60°)	421	22.5
	FH (60°-80°)	180	9.6
	FVH (80°-90°)	35	1.9
	BACK LIGHT	857	45.7
	BL (0°-30°)	214	11.4
	BM (30°-60°)	425	22.7
	BH (60°-80°)	183	9.7
	BVH (80°-90°)	36	1.9
	UP LIGHT	169	9.0
	UL (90°-100°)	36	1.9
	UH (100°-180°)	133	7.1
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U3 G1

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