

Report No.:

Test Time: 2021-04-15 14:46

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: E18013-4000K

Lamp Description: 2835

Current: 0.236 A

Power Factor: 0.947

Lamp Catalog: LED

Voltage: 120.0 V

Power: 26.81 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 2451.2 lm

Downward Ratio: 89%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 183.3, 182.9, 183.2, 183.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 119.8, 119.6, 119.6, 119.8

Luminaire Efficacy Rating (LER): 91.48

Max. Intensity: 675.35 cd

S/MH(C0/C180): 1.30

Total Rated Lamp Lumens: 2451.2 lm

Efficiency: 100%

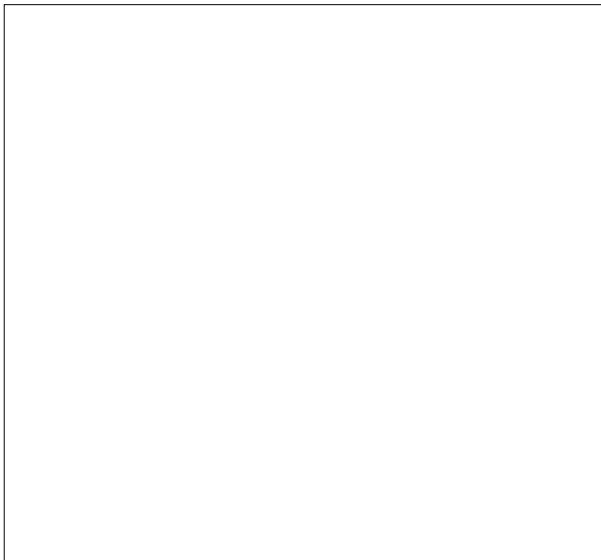
Upward Ratio: 11%

Central Intensity: 671.12 cd

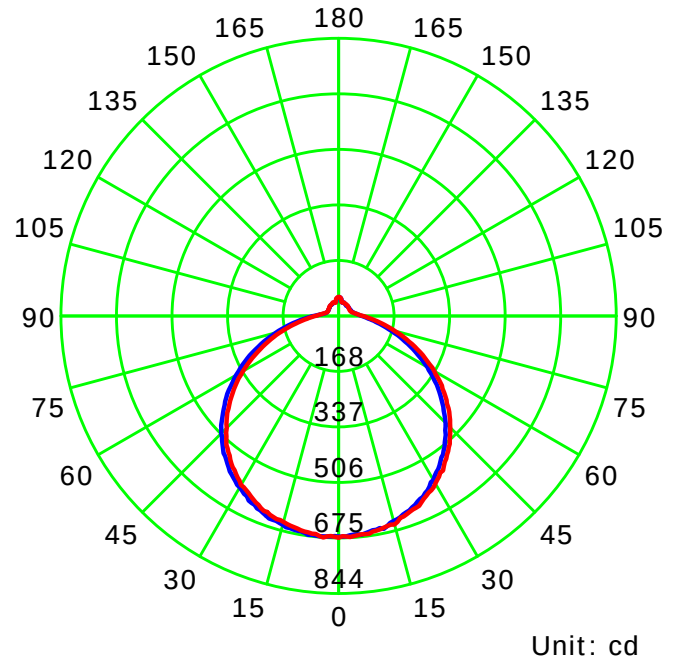
Pos of Max. Intensity: H270 V4

S/MH(C90/C270): 1.30

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:

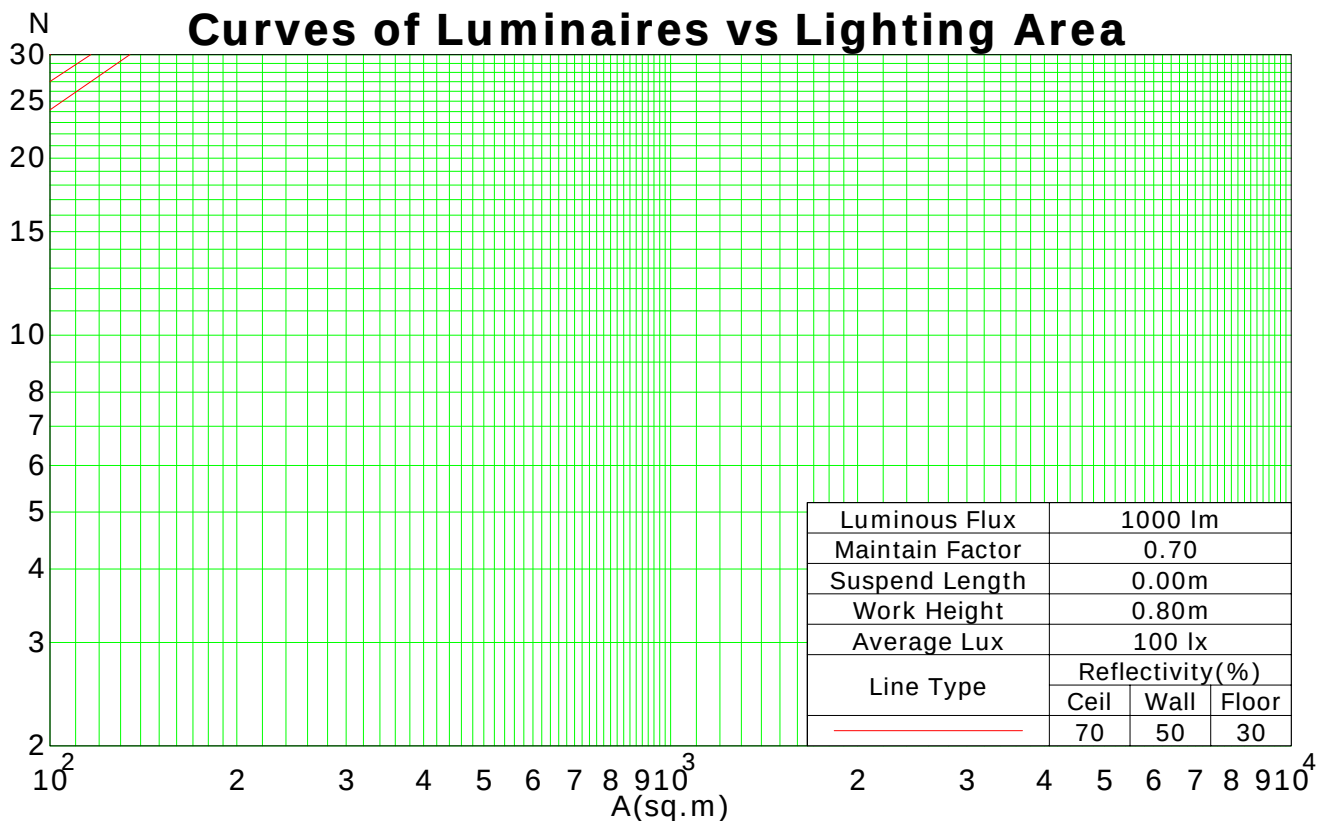
Coefficients Of Utilization - Zonal Cavity Method

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	99	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	76	71	78	72	67	73	68	64	68	64	61	58
3	86	75	67	60	83	73	65	58	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	46	39	34	43	37	33	31
7	62	48	39	33	59	46	38	32	44	37	31	41	35	30	39	34	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	23	22
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

Spacing Criteria (0-180): 1.30

Spacing Criteria (90-270): 1.30

Spacing Criteria (Diagonal): 1.42



C Plane (°):0.0-360.0: 90.0

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Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

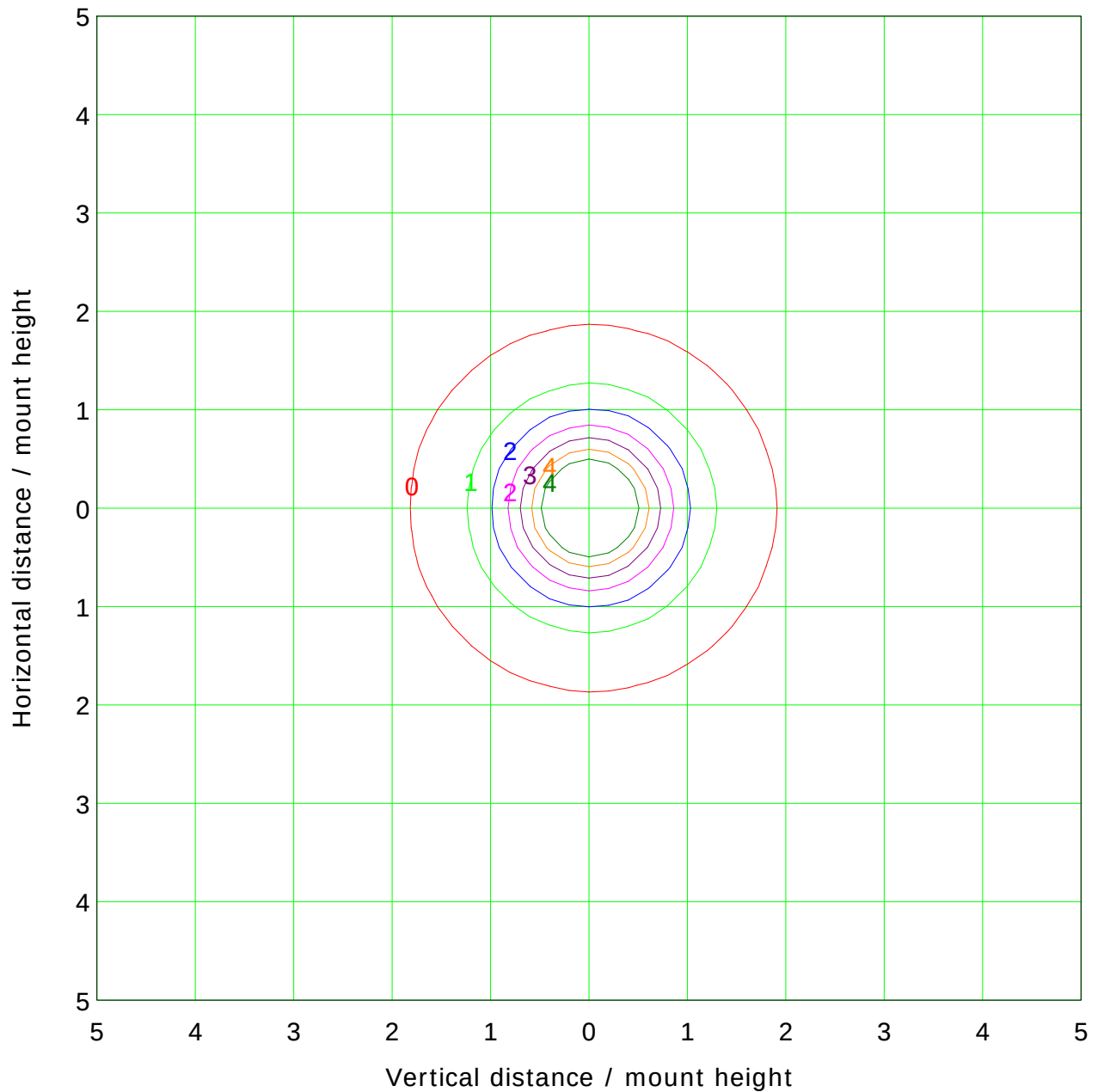
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 6.7 lx	
— (5%):	0.3 lx	— (15%):	1.0 lx
— (25%):	1.7 lx	— (35%):	2.4 lx
— (45%):	3.0 lx	— (55%):	3.7 lx
— (65%):	4.4 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

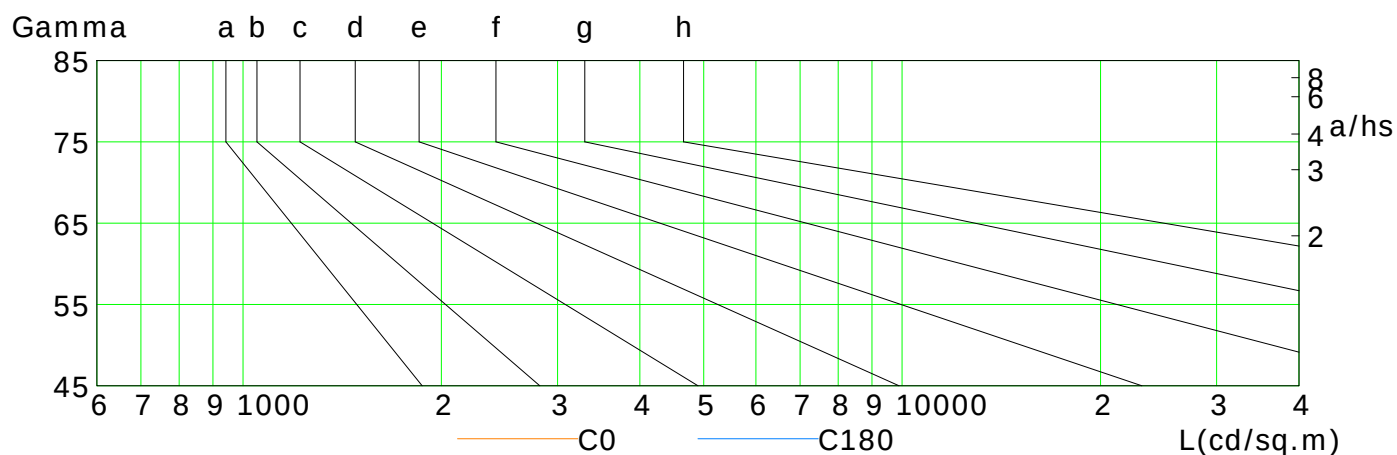
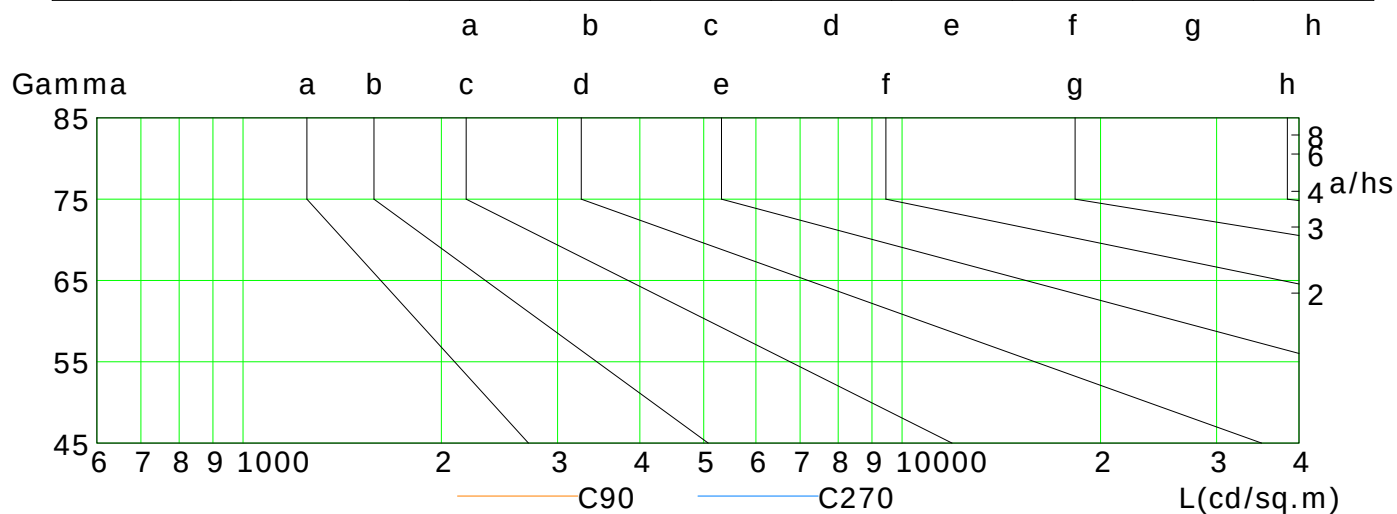
Distance: 7.344 m

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	460	412	365	312	258	207	159	120	90
C90	480	436	386	335	282	228	177	133	98
C180	504	459	414	360	307	252	197	148	107
C270	481	438	389	336	281	228	178	132	96

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

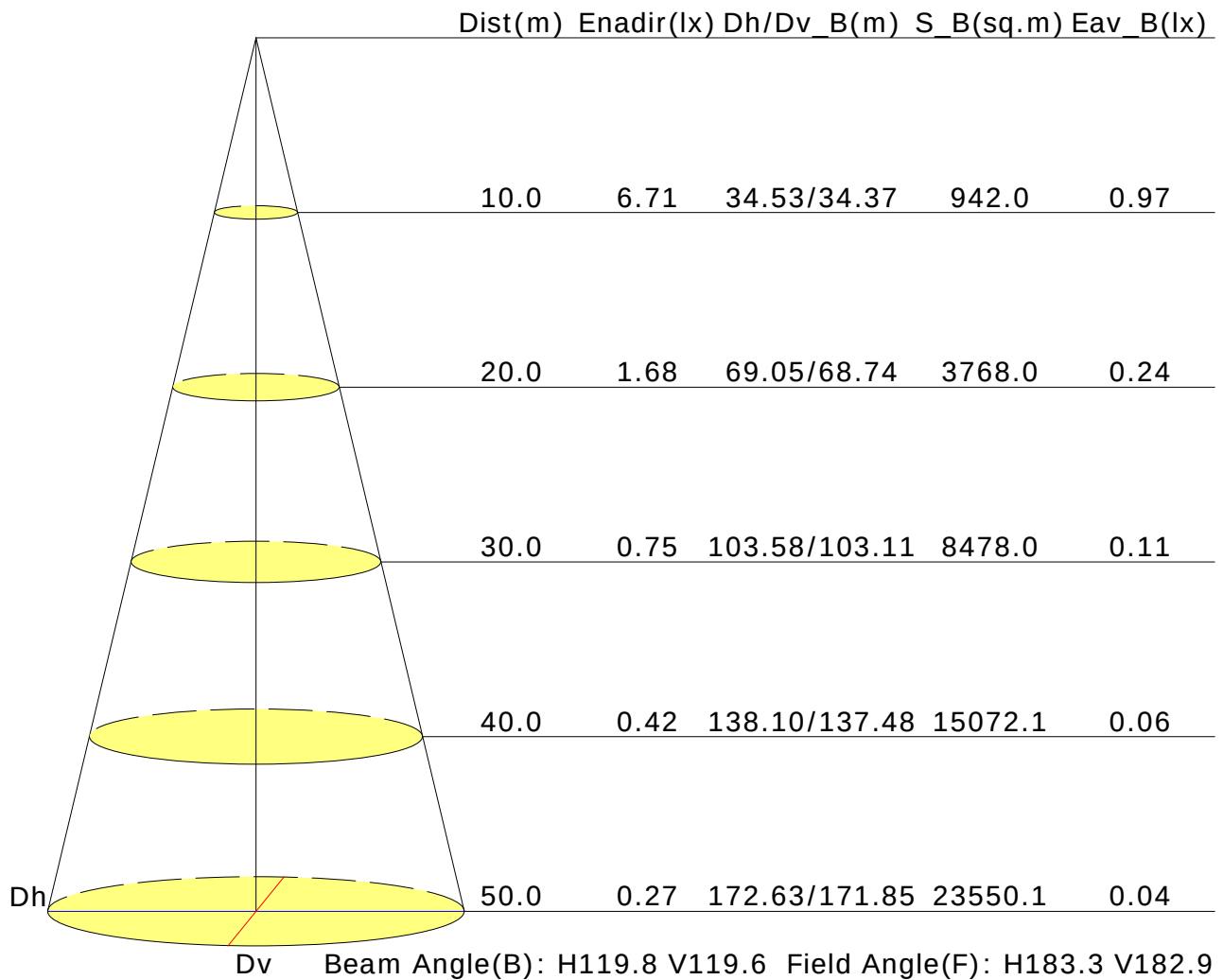
Test Device: GPM-1600L

Distance: 7.344 m

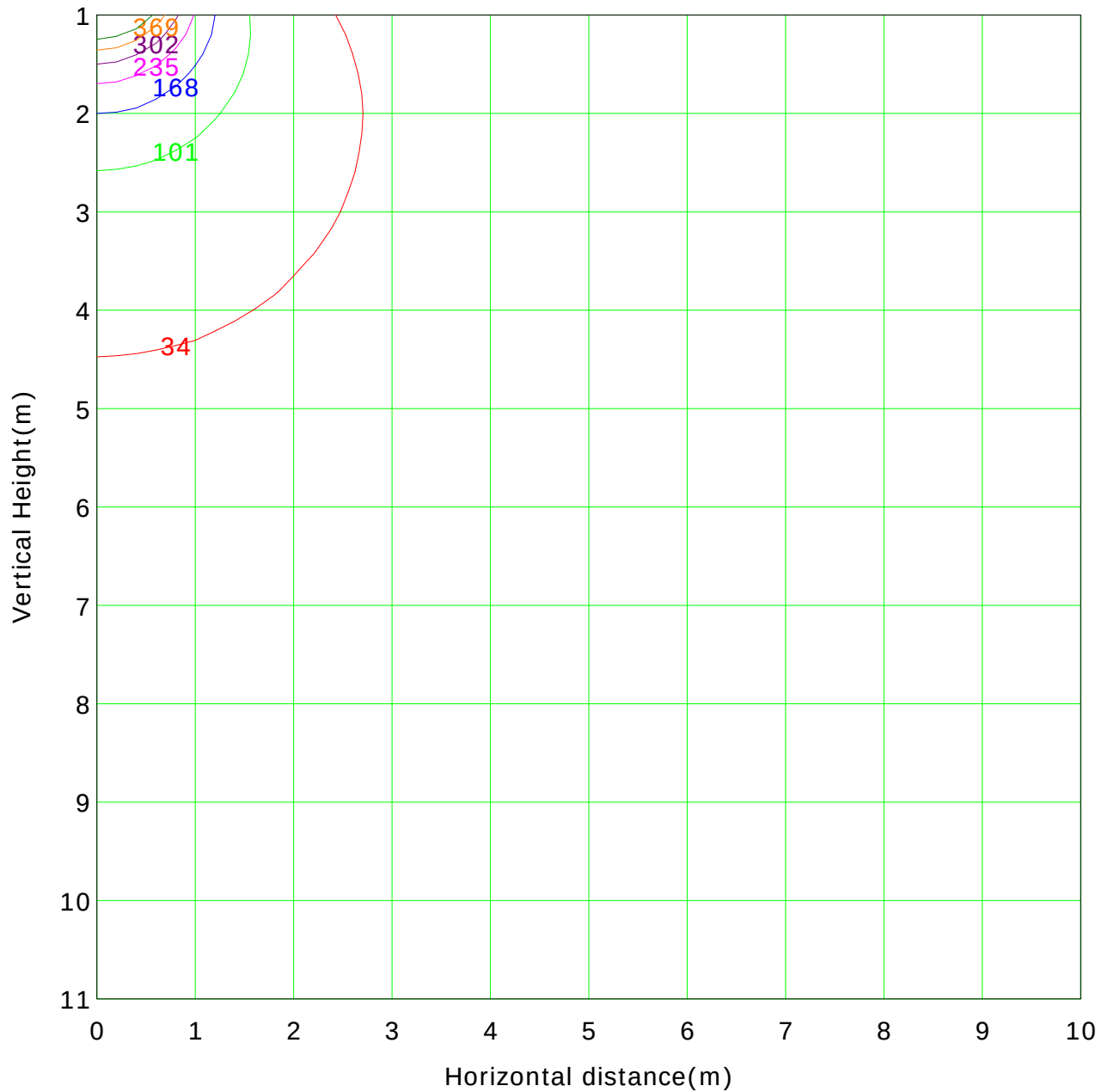
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

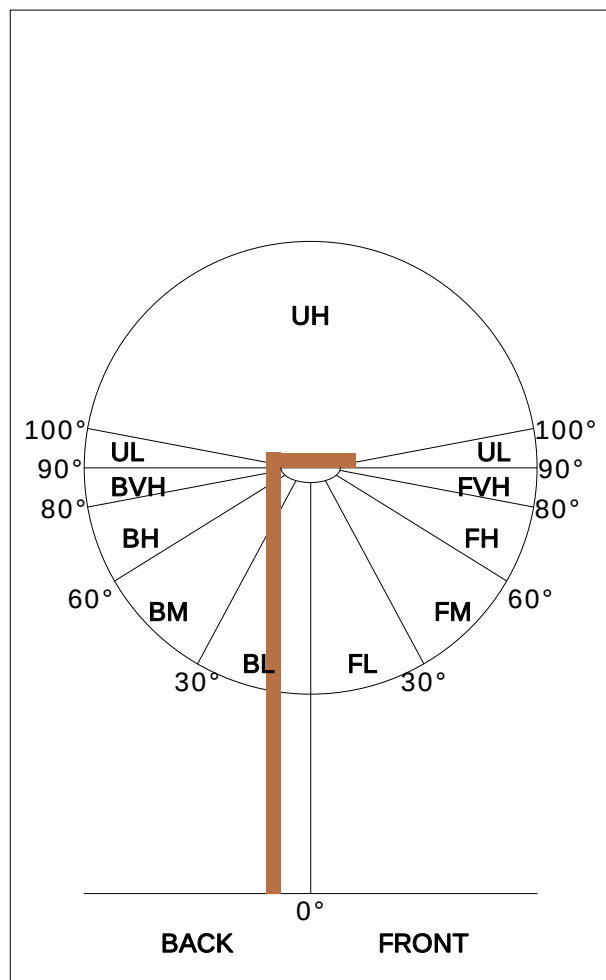


Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 671.1 lx

(5%): 33.6 lx	(15%): 100.7 lx
(25%): 167.8 lx	(35%): 234.9 lx
(45%): 302.0 lx	(55%): 369.1 lx
(65%): 436.2 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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM


ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	1088	44.4
FL (0°-30°)	266	10.8
FM (30°-60°)	533	21.7
FH (60°-80°)	234	9.6
FVH (80°-90°)	55	2.2
BACK LIGHT	1089	44.4
BL (0°-30°)	266	10.8
BM (30°-60°)	535	21.8
BH (60°-80°)	234	9.5
BVH (80°-90°)	54	2.2
UP LIGHT	275	11.2
UL (90°-100°)	64	2.6
UH (100°-180°)	211	8.6
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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