

Report No.:

Test Time: 2021-04-13 15:43

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: E18002-4000K

Lamp Description: 2835

Current: 0.211 A

Power Factor: 0.955

Lamp Catalog: LED

Voltage: 120.0 V

Power: 24.17 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1587.4 lm

Downward Ratio: 97%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.2, 165.5, 165.3, 165.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.3, 113.5, 113.4, 113.4

Luminaire Efficacy Rating (LER): 65.73

Max. Intensity: 524.17 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 1587.4 lm

Efficiency: 100%

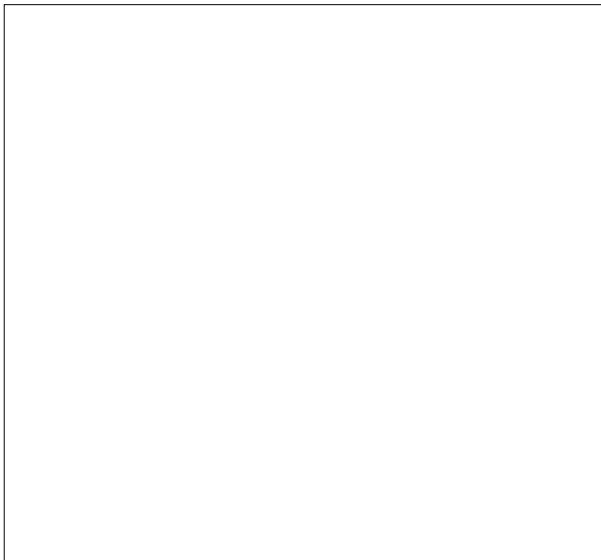
Upward Ratio: 3%

Central Intensity: 524.17 cd

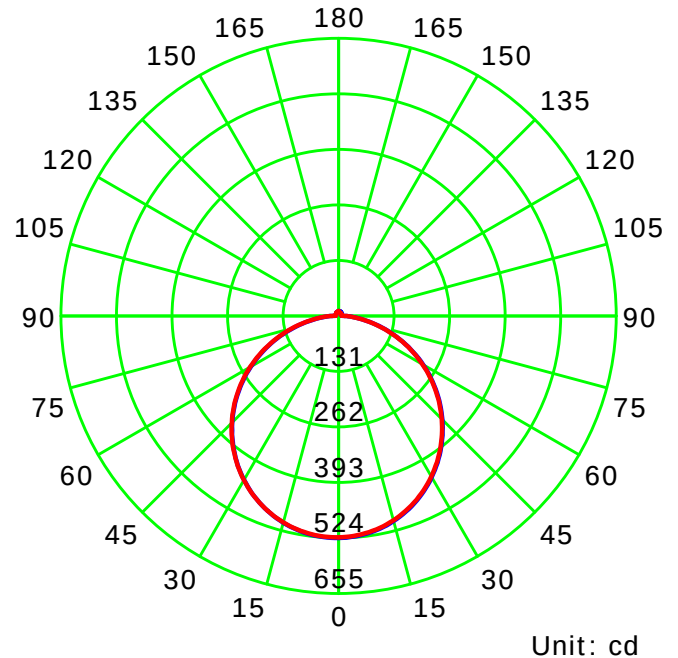
Pos of Max. Intensity: H0 V0

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:

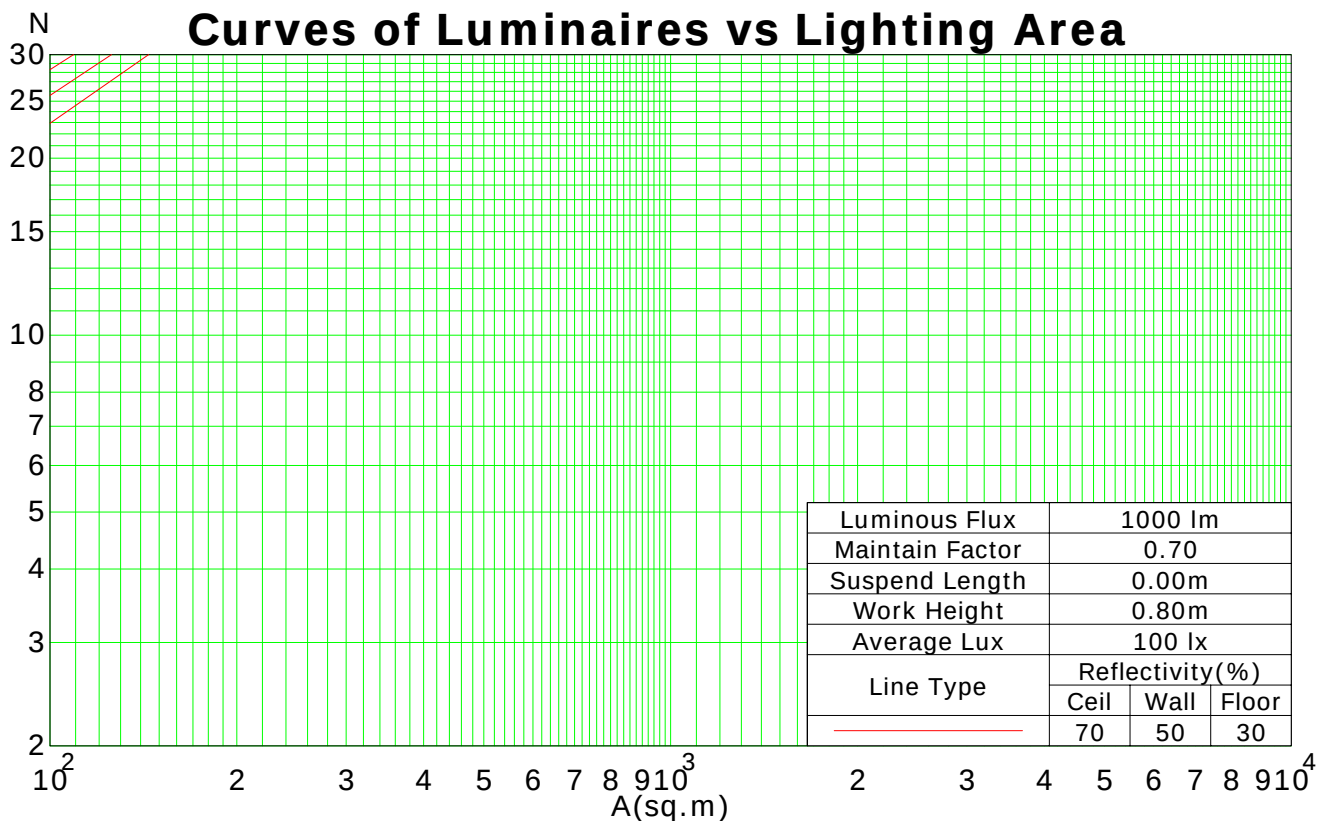
Coefficients Of Utilization - Zonal Cavity Method

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	104	104	104	99	99	99	97
1	107	102	98	94	104	100	96	92	95	92	89	90	88	85	86	84	82	80
2	97	89	82	76	95	87	80	75	83	77	73	79	74	70	75	72	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	56	50	59	54	49	47
5	75	62	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.26

Spacing Criteria (Diagonal): 1.38



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Gamma Plane (°):0.0-180.0:1.0

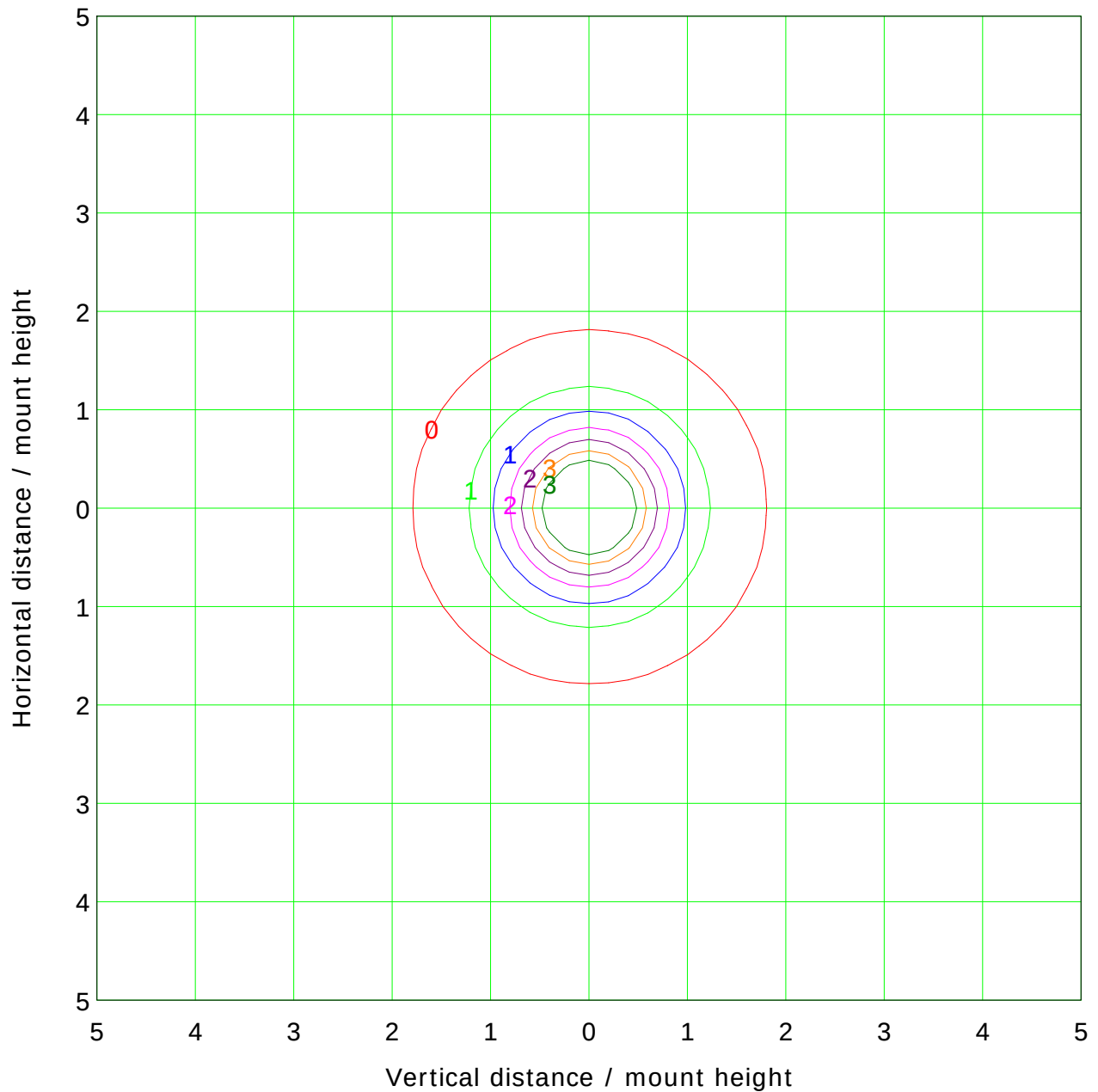
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 5.2 lx	
— (5%):	0.3 lx	— (15%):	0.8 lx
— (25%):	1.3 lx	— (35%):	1.8 lx
— (45%):	2.4 lx	— (55%):	2.9 lx
— (65%):	3.4 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

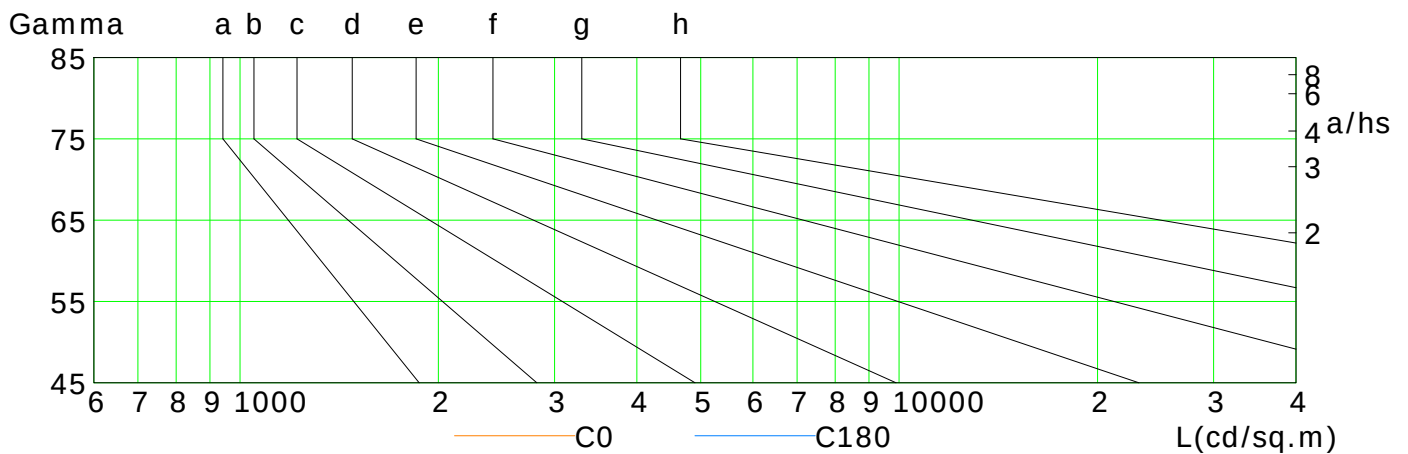
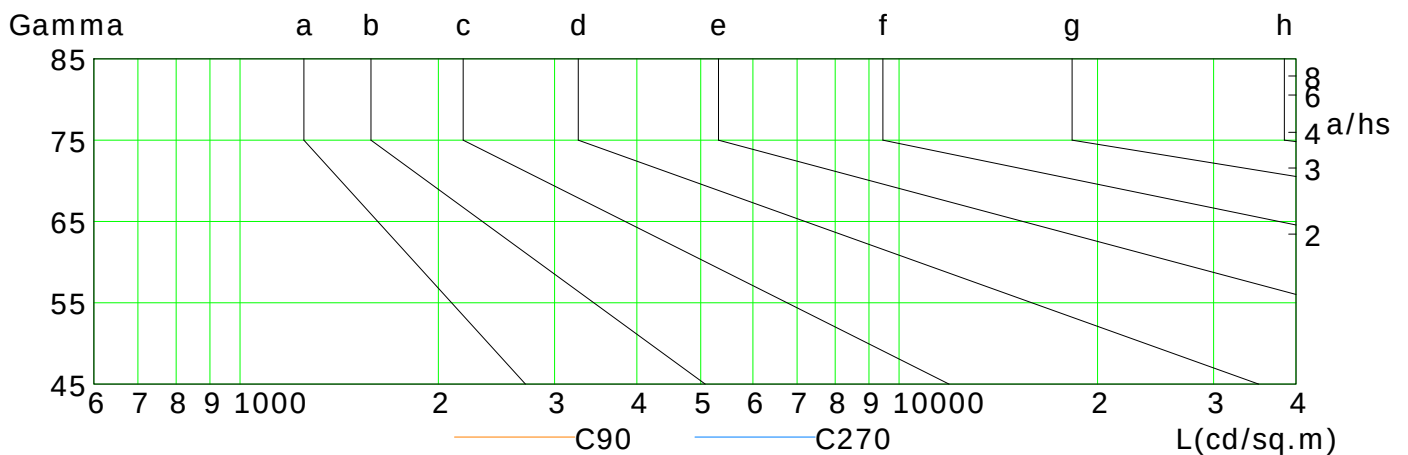
Humidity:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	346	310	271	230	189	147	106	68	36
C90	344	308	269	228	187	146	104	66	36
C180	355	319	280	239	197	154	112	72	39
C270	357	321	282	242	200	157	115	75	42

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Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

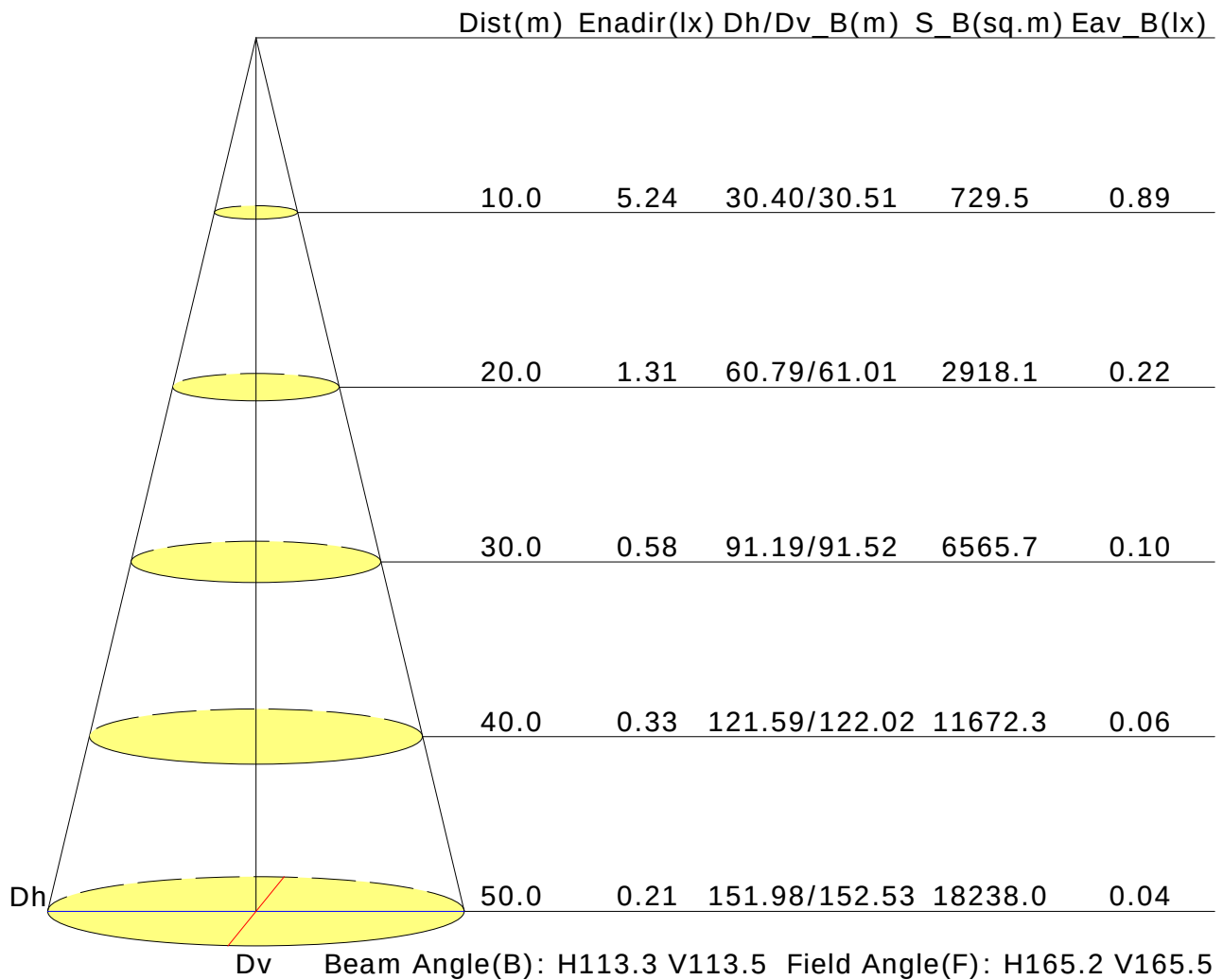
Test Device: GPM-1600L

Distance: 7.344 m

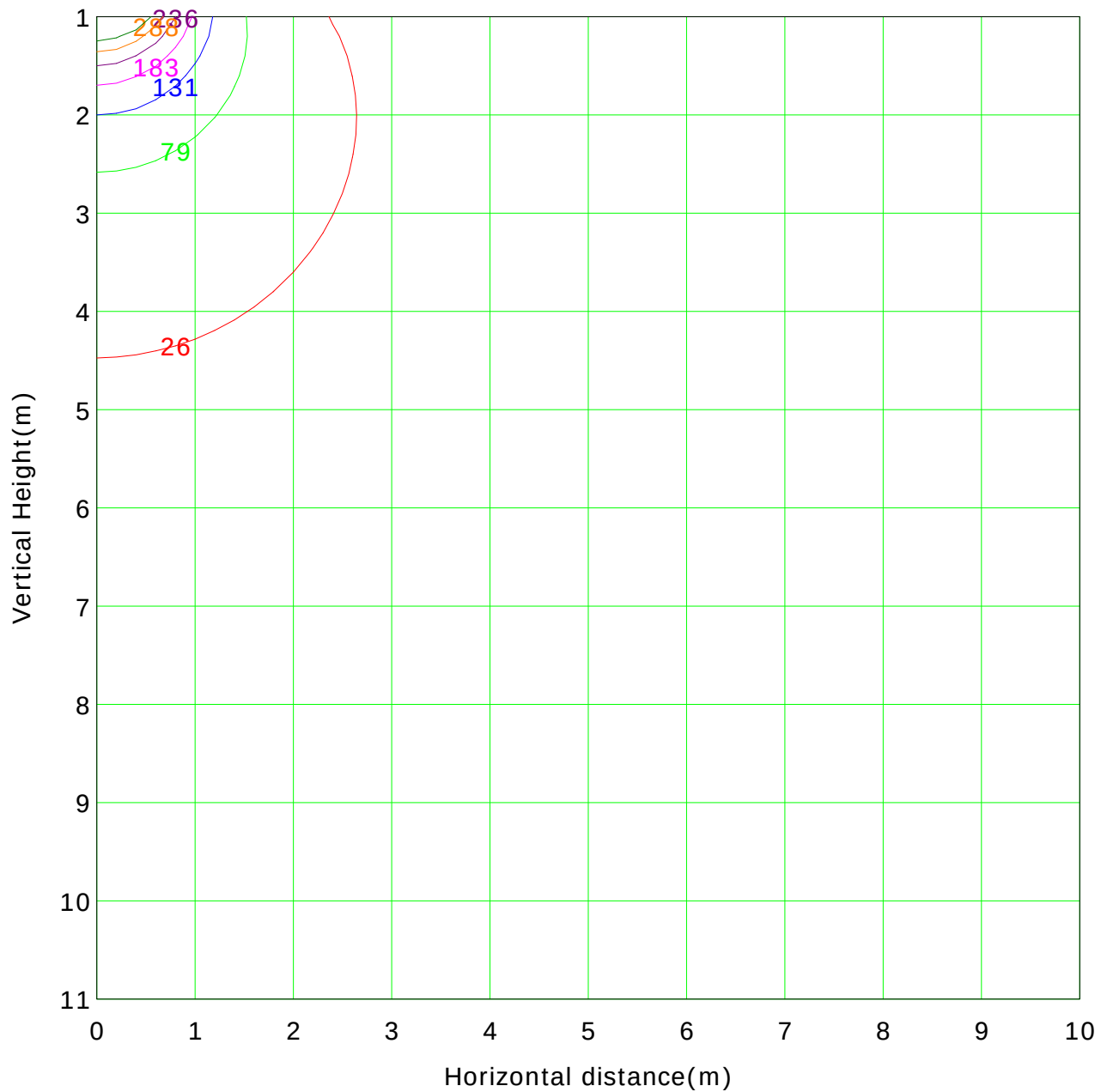
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



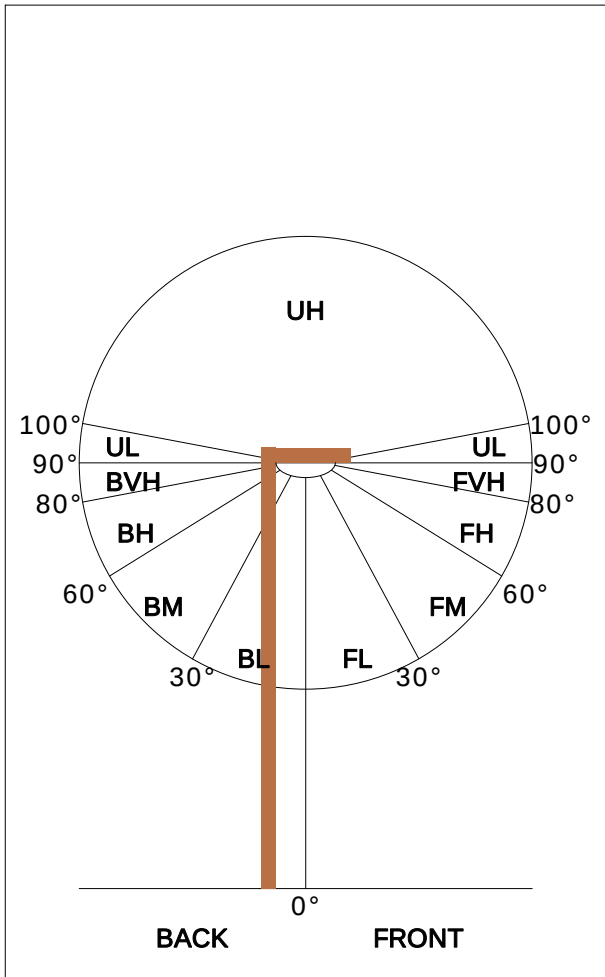
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 524.2 lx

(5%): 26.2 lx	(15%): 78.6 lx
(25%): 131.0 lx	(35%): 183.5 lx
(45%): 235.9 lx	(55%): 288.3 lx
(65%): 340.7 lx	

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
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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	759	47.8
	FL (0°-30°)	203	12.8
	FM (30°-60°)	384	24.2
	FH (60°-80°)	151	9.5
	FVH (80°-90°)	21	1.3
	BACK LIGHT	775	48.8
	BL (0°-30°)	204	12.8
	BM (30°-60°)	392	24.7
	BH (60°-80°)	156	9.8
	BVH (80°-90°)	23	1.4
	UP LIGHT	54	3.4
	UL (90°-100°)	11	0.7
	UH (100°-180°)	43	2.7
	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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