

Report No.:

Test Time: 2021-04-16 14:50

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17024-3000K

Lamp Description: 2835

Current: 0.202 A

Power Factor: 0.931

Lamp Catalog: LED

Voltage: 120.0 V

Power: 22.57 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1786.2 lm

Downward Ratio: 96%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.0, 164.1, 164.0, 164.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.3, 113.2, 113.3, 113.3

Luminaire Efficacy Rating (LER): 79.19

Max. Intensity: 588.47 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 1786.2 lm

Efficiency: 100%

Upward Ratio: 4%

Central Intensity: 588.22 cd

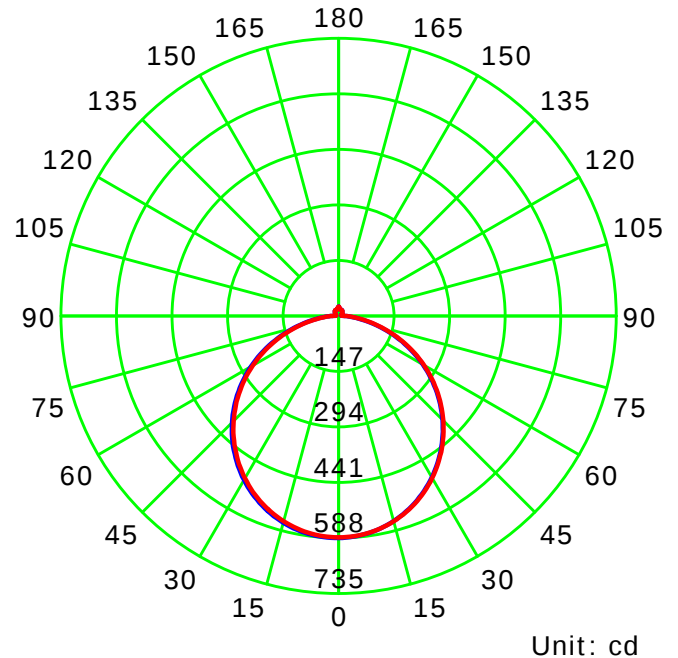
Pos of Max. Intensity: H180 V1

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:

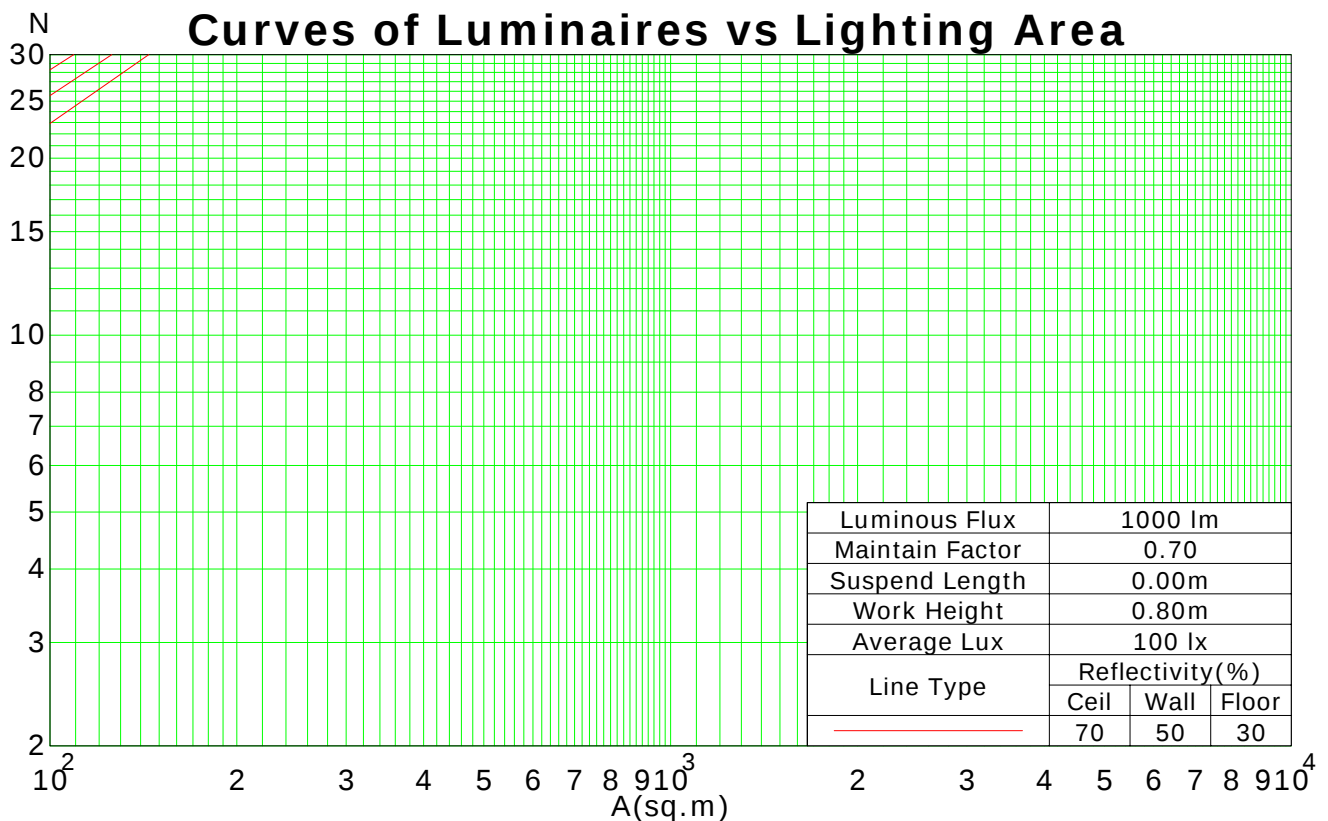
Coefficients Of Utilization - Zonal Cavity Method

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	83	77	73	79	74	70	75	71	68	66
3	89	78	70	63	86	76	69	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	55	50	59	54	49	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	43	38	48	42	38	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	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	34	29	24	23

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.26

Spacing Criteria (Diagonal): 1.38



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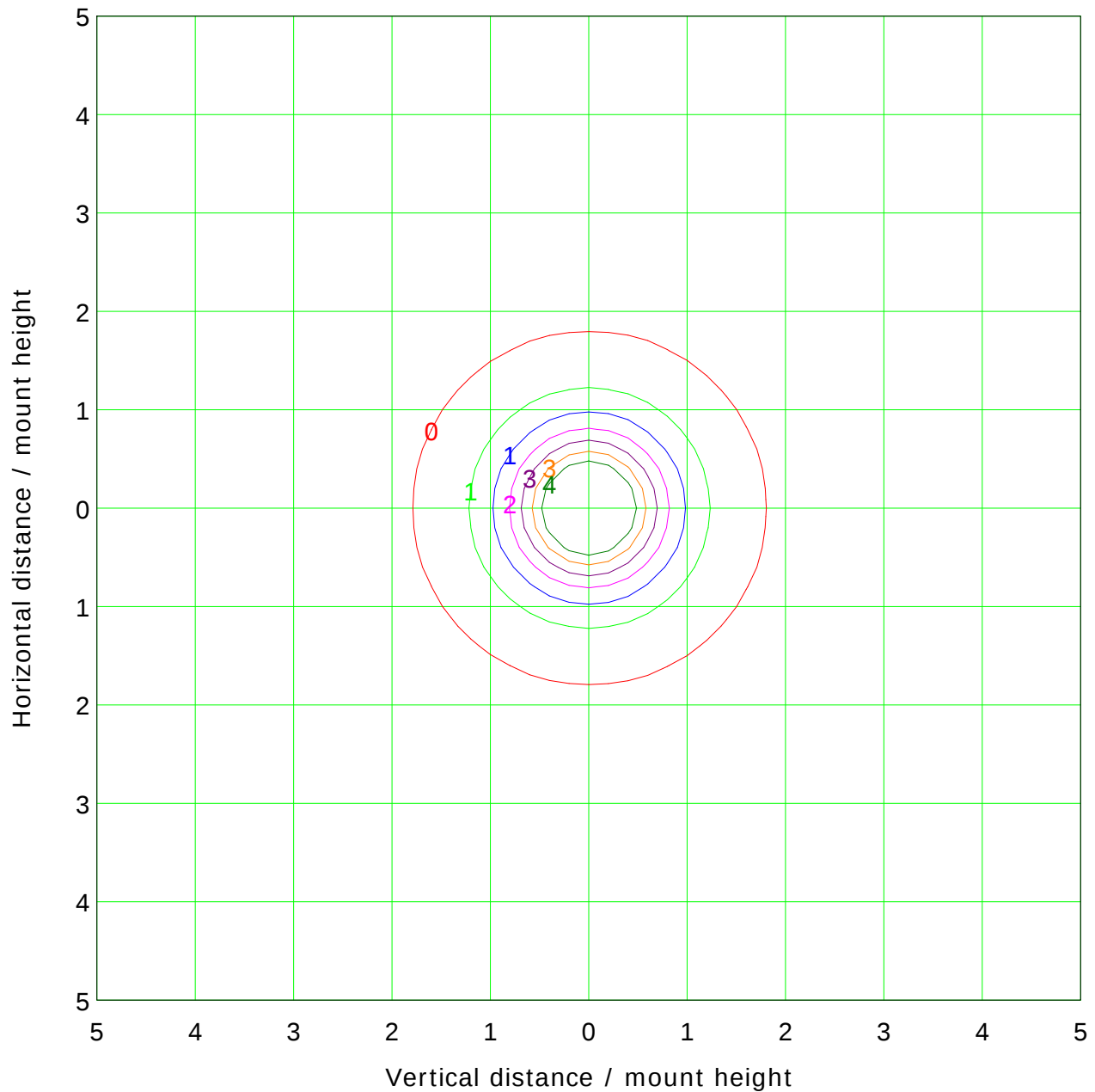
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 5.9 lx	
(5%):	0.3 lx	(15%):	0.9 lx
(25%):	1.5 lx	(35%):	2.1 lx
(45%):	2.6 lx	(55%):	3.2 lx
(65%):	3.8 lx		

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Test Device: GPM-1600L

Distance: 7.344 m

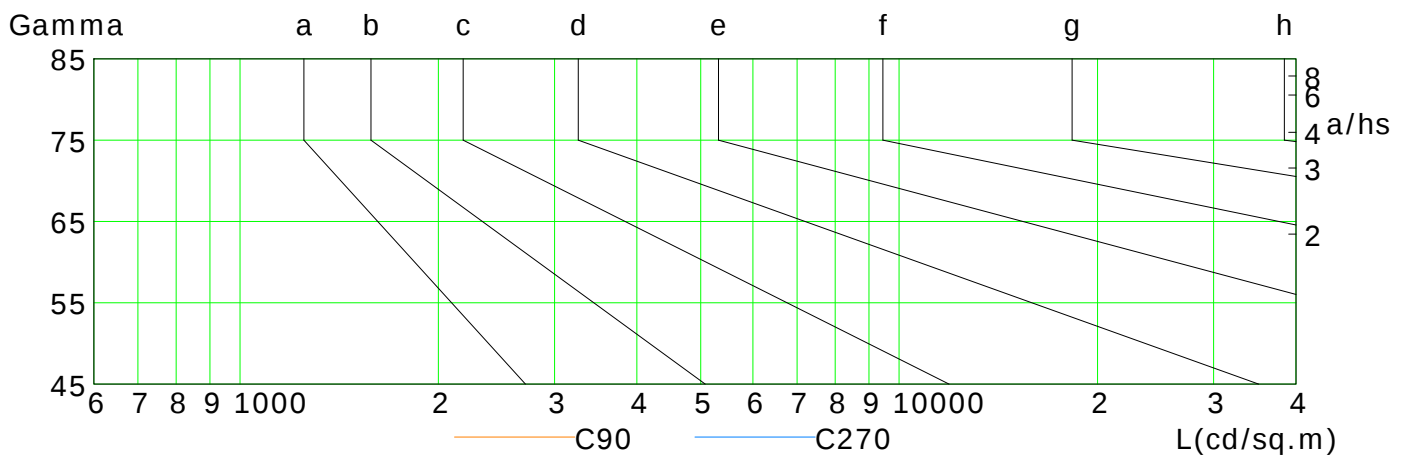
Humidity:

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	389	348	304	258	210	161	114	70	37
C90	393	351	308	261	214	166	118	75	40
C180	399	359	315	269	220	171	123	78	41
C270	393	353	309	263	214	165	118	74	39

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Temperature:

Operator: SUSHUNHUA

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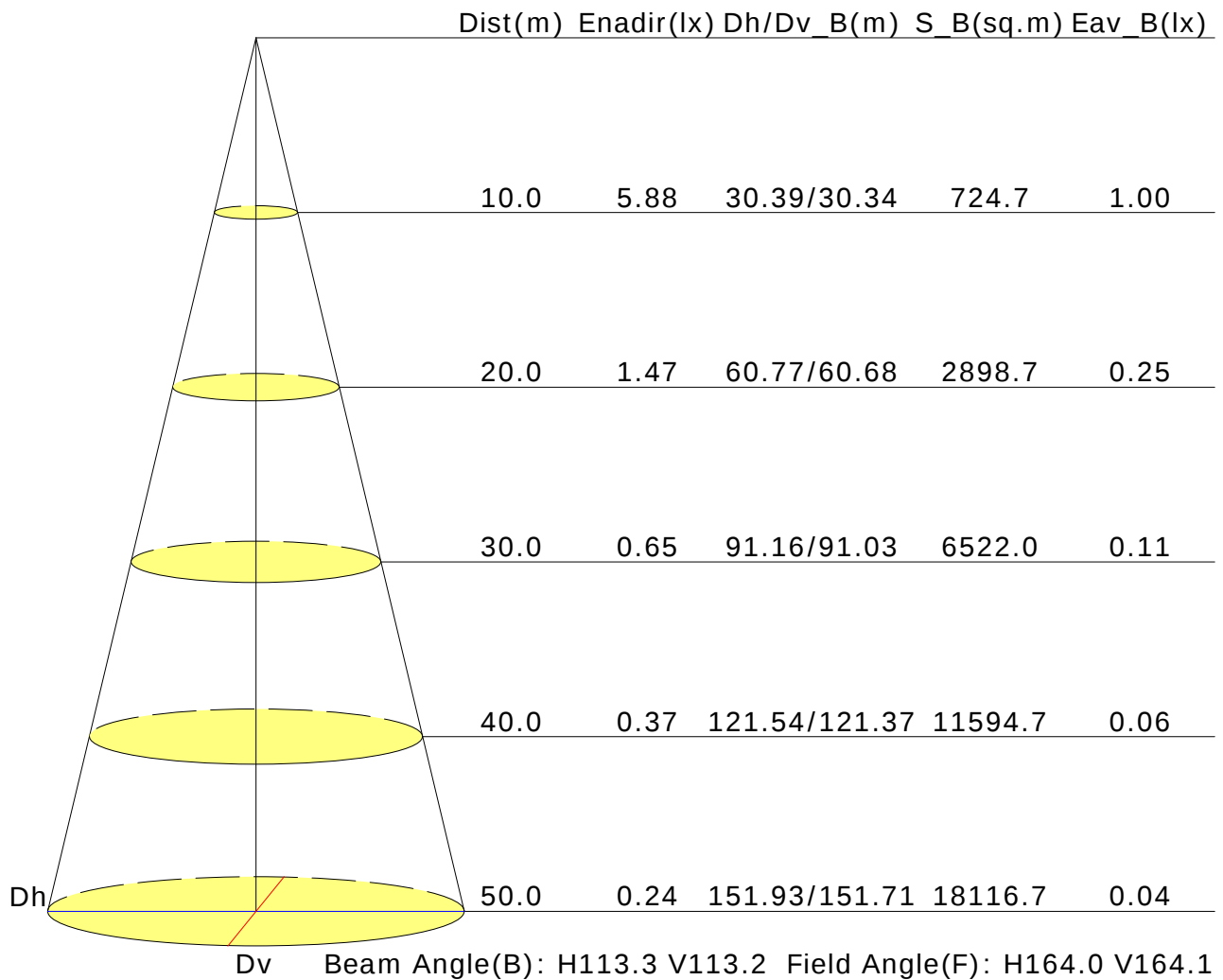
Test Device: GPM-1600L

Distance: 7.344 m

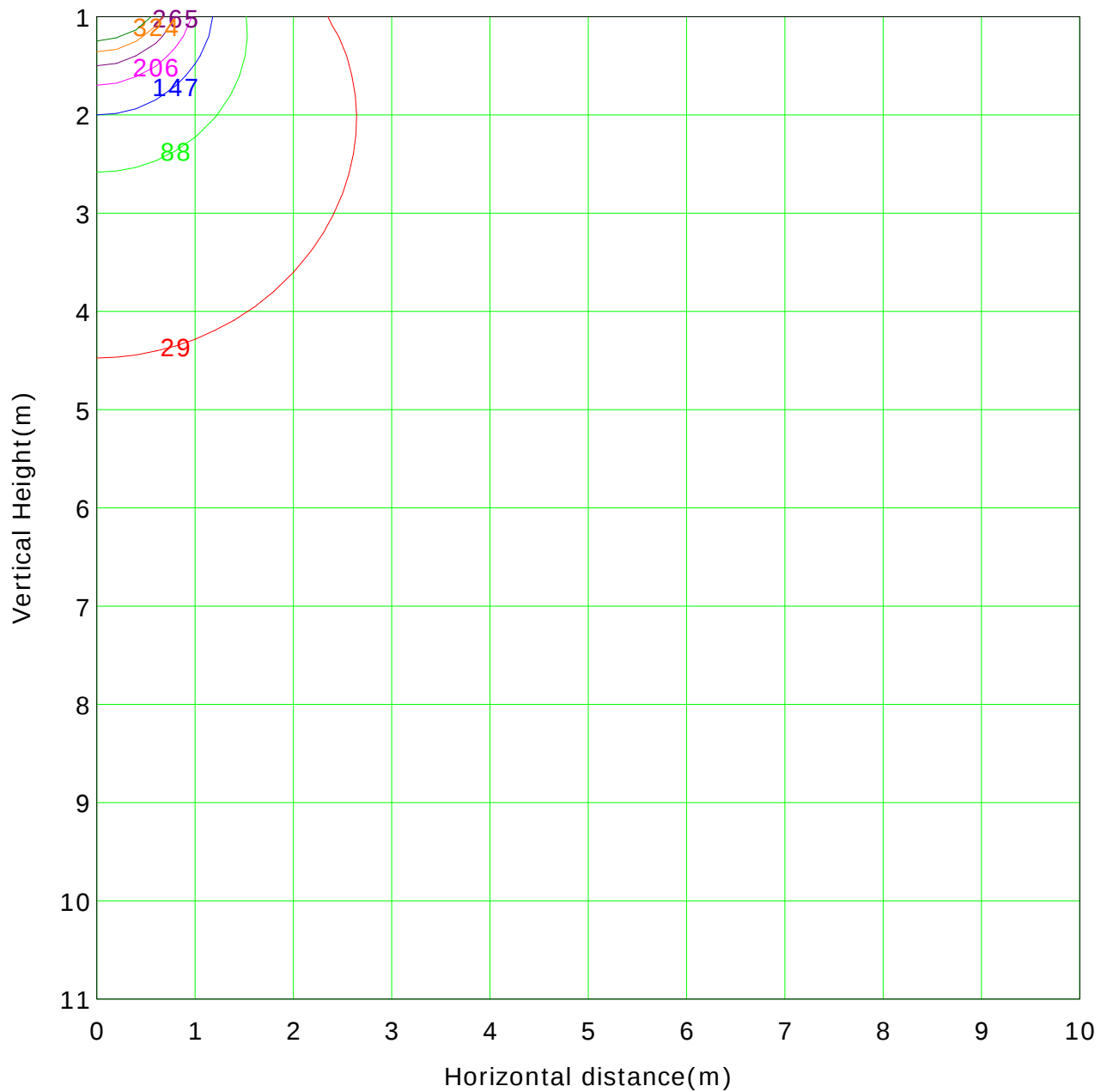
Humidity:

Inspector:

Illuminance at a Distance



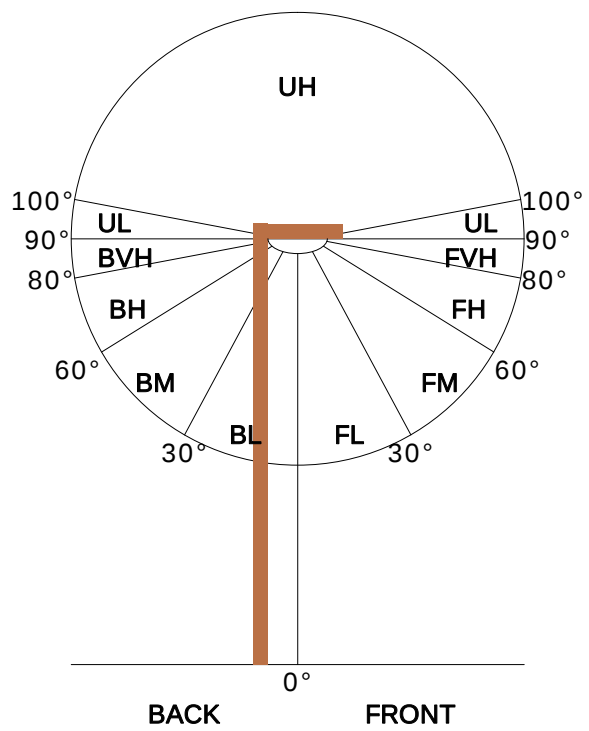
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 588.2 lx

(5%): 29.4 lx	(15%): 88.2 lx
(25%): 147.1 lx	(35%): 205.9 lx
(45%): 264.7 lx	(55%): 323.5 lx
(65%): 382.3 lx	

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	855	47.9
	FL (0°-30°)	228	12.8
	FM (30°-60°)	435	24.4
	FH (60°-80°)	169	9.4
	FVH (80°-90°)	23	1.3
	BACK LIGHT	855	47.9
	BL (0°-30°)	228	12.8
	BM (30°-60°)	436	24.4
	BH (60°-80°)	169	9.4
	BVH (80°-90°)	23	1.3
	UP LIGHT	76	4.3
	UL (90°-100°)	11	0.6
	UH (100°-180°)	65	3.6
	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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