

Report No.: 03

Test Time: 2016-11-07 13:38:14

## Luminaire Property

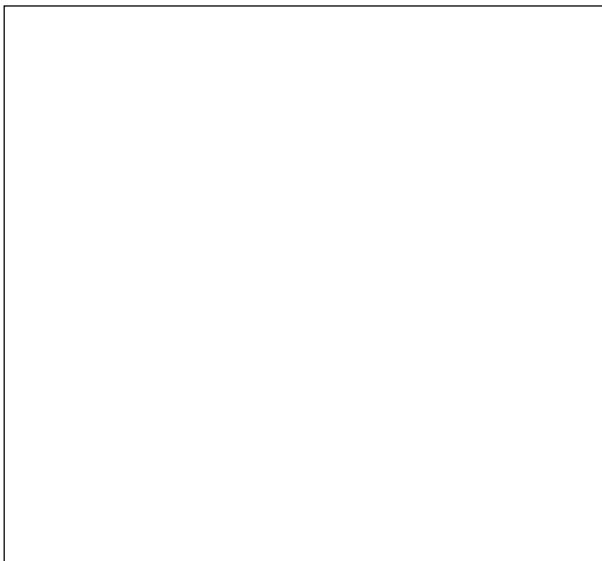
Luminaire Manufacturer: ASD Lighting Corp.  
 Luminaire Description: ASD-LVP2SM-4D3150PRM  
 Lamp Description: ASD-LVP2SM-4D3150PRM Number of Lamps: 1  
 Lumens per Lamp: 3860.2 lm  
 Luminous Width (mm): 90 mm  
 Power: 31.00 W  
 Luminous Length (mm): 1220 mm  
 Luminous Height (mm): 80 mm

## Photometric Results

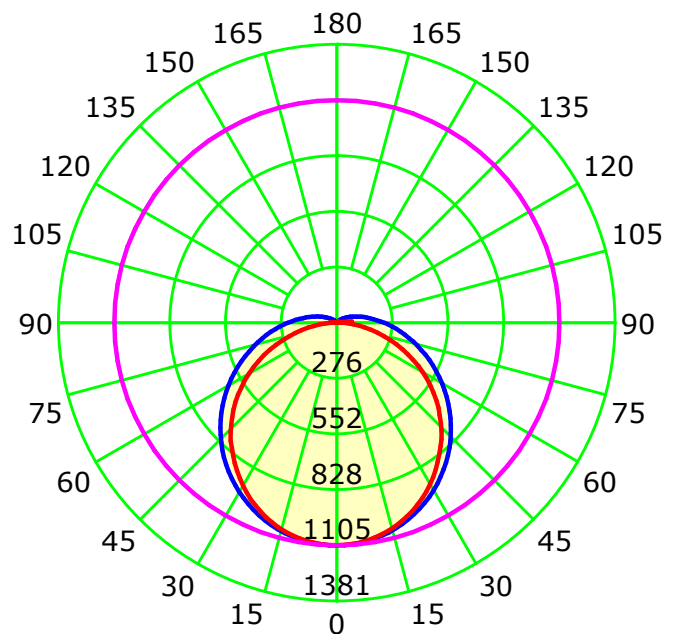
CIE Class: Direct  
 Measurement Flux: 3857.9 lm  
 Downward Ratio: 93.12%  
 Field Angle: H213.3 V164.5  
 Luminaire Efficacy Rating (LER): 124  
 Max. Intensity: 1105.19 cd

Total Rated Lamp Lumens: 3860.2 lm  
 Efficiency: 99.94%  
 Upward Ratio: 6.82%  
 Beam Angle: H128.7 V113.7  
 Central Intensity: 1105.18 cd  
 Pos of Max. Intensity: H0 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G0

C Plane (°):0.0-360.0: 90.0  
 Test Lab: EVERFINE  
 Test Type: TYPE C  
 Temperature:  
 Operator:

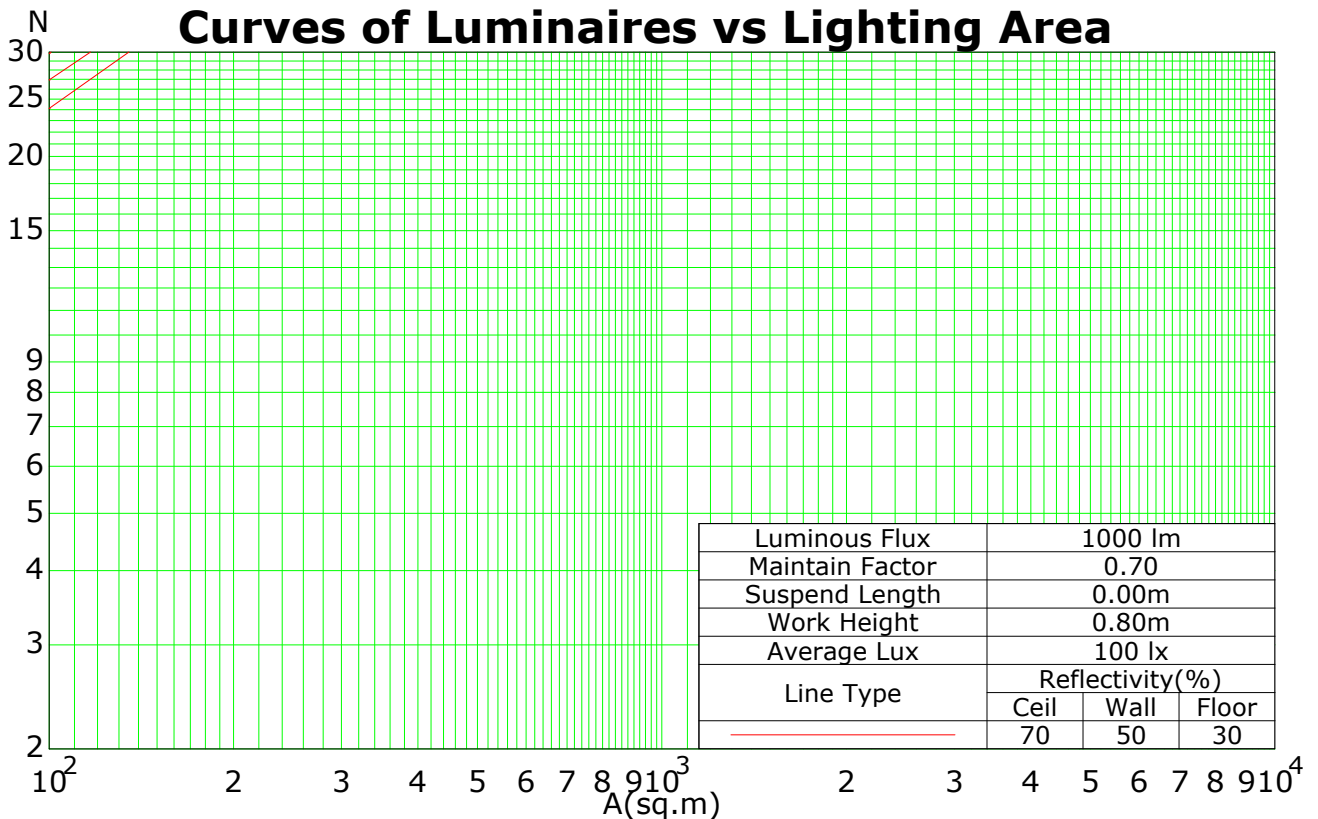
Gamma Plane (°):0.0-180.0:2.0  
 Test Device:  
 Distance:  
 Humidity:  
 Inspector:

### 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	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	105	100	95	90	102	97	92	88	91	88	84	86	83	80	81	79	77	74
2	95	86	79	72	92	83	77	71	79	73	68	74	70	66	70	66	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	62	57	53	50
4	79	66	57	50	76	64	56	49	61	53	48	58	51	46	55	49	45	42
5	72	59	49	42	70	57	48	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	51	43	36	49	41	36	47	40	35	44	38	34	32
7	62	48	39	32	59	47	38	32	44	37	31	42	36	31	40	34	30	28
8	57	43	35	29	55	42	34	28	41	33	28	39	32	27	37	31	27	25
9	54	40	31	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	34	27	23	33	27	22	32	26	22	20

Spacing Criteria (0-180): 1.30  
 Spacing Criteria (90-270): 1.25  
 Spacing Criteria (Diagonal): 1.41

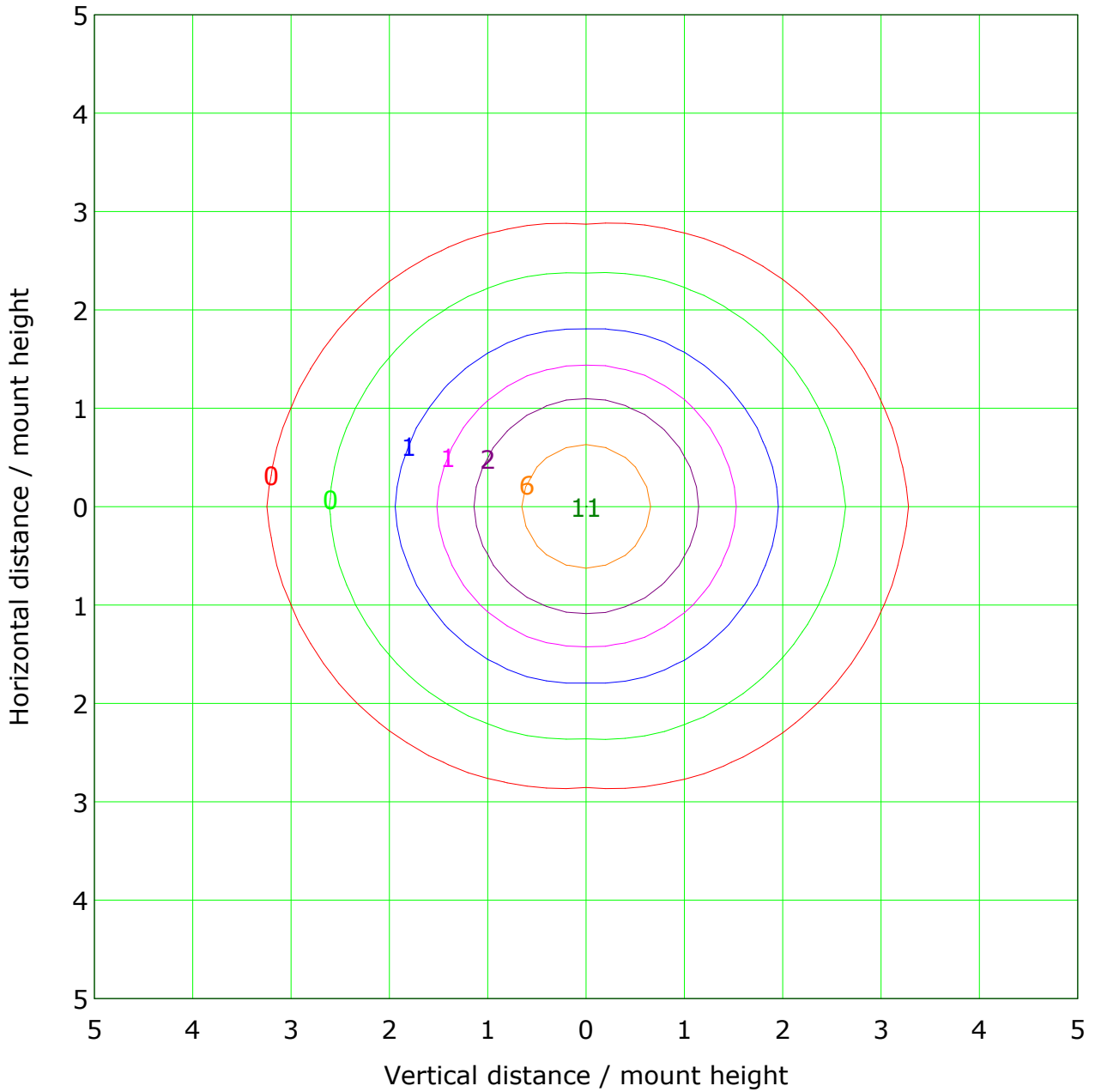
### Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 90.0  
 Test Lab: EVERFINE  
 Test Type: TYPE C  
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 Operator:

Gamma Plane (°):0.0-180.0:2.0  
 Test Device:  
 Distance:  
 Humidity:  
 Inspector:

## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 11.1 lx	
<ul style="list-style-type: none"> <li><span style="color: red;">—</span> ( 1%): 0.1 lx</li> <li><span style="color: blue;">—</span> ( 5%): 0.6 lx</li> <li><span style="color: purple;">—</span> ( 20%): 2.2 lx</li> <li><span style="color: green;">—</span> (100%): 11.1 lx</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: green;">—</span> ( 2%): 0.2 lx</li> <li><span style="color: magenta;">—</span> ( 10%): 1.1 lx</li> <li><span style="color: orange;">—</span> ( 50%): 5.5 lx</li> </ul>		

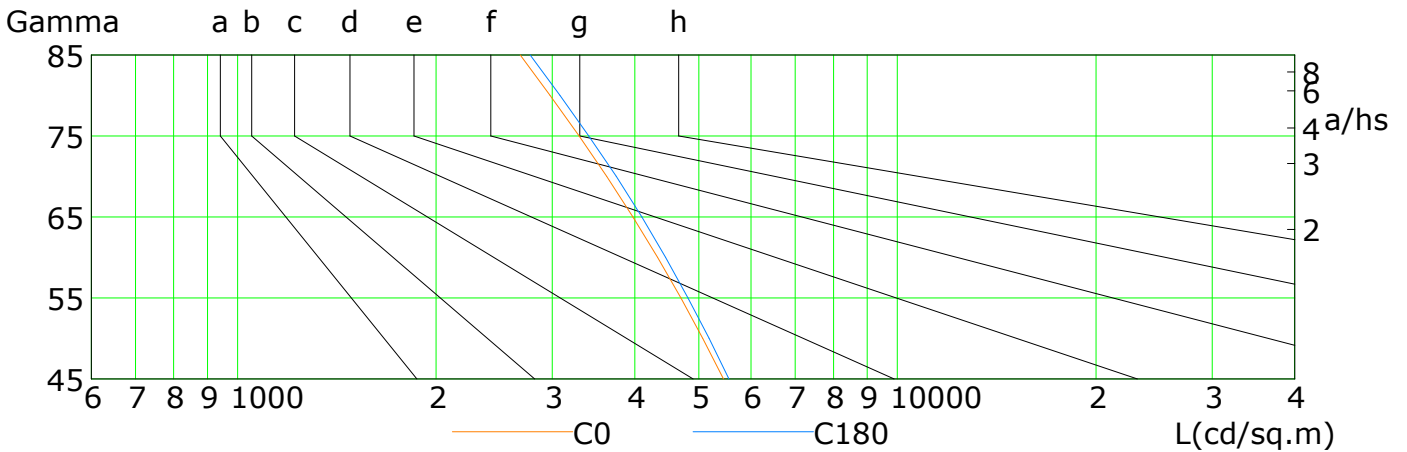
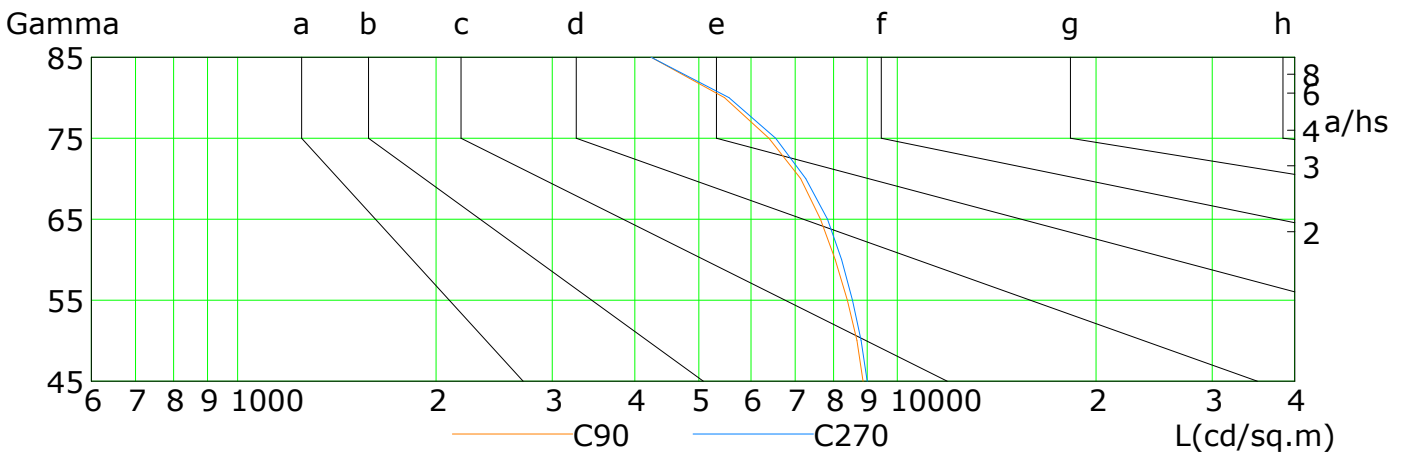
C Plane (°):0.0-360.0: 90.0  
 Test Lab: EVERFINE  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:2.0  
 Test Device:  
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 Humidity:  
 Inspector:

## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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

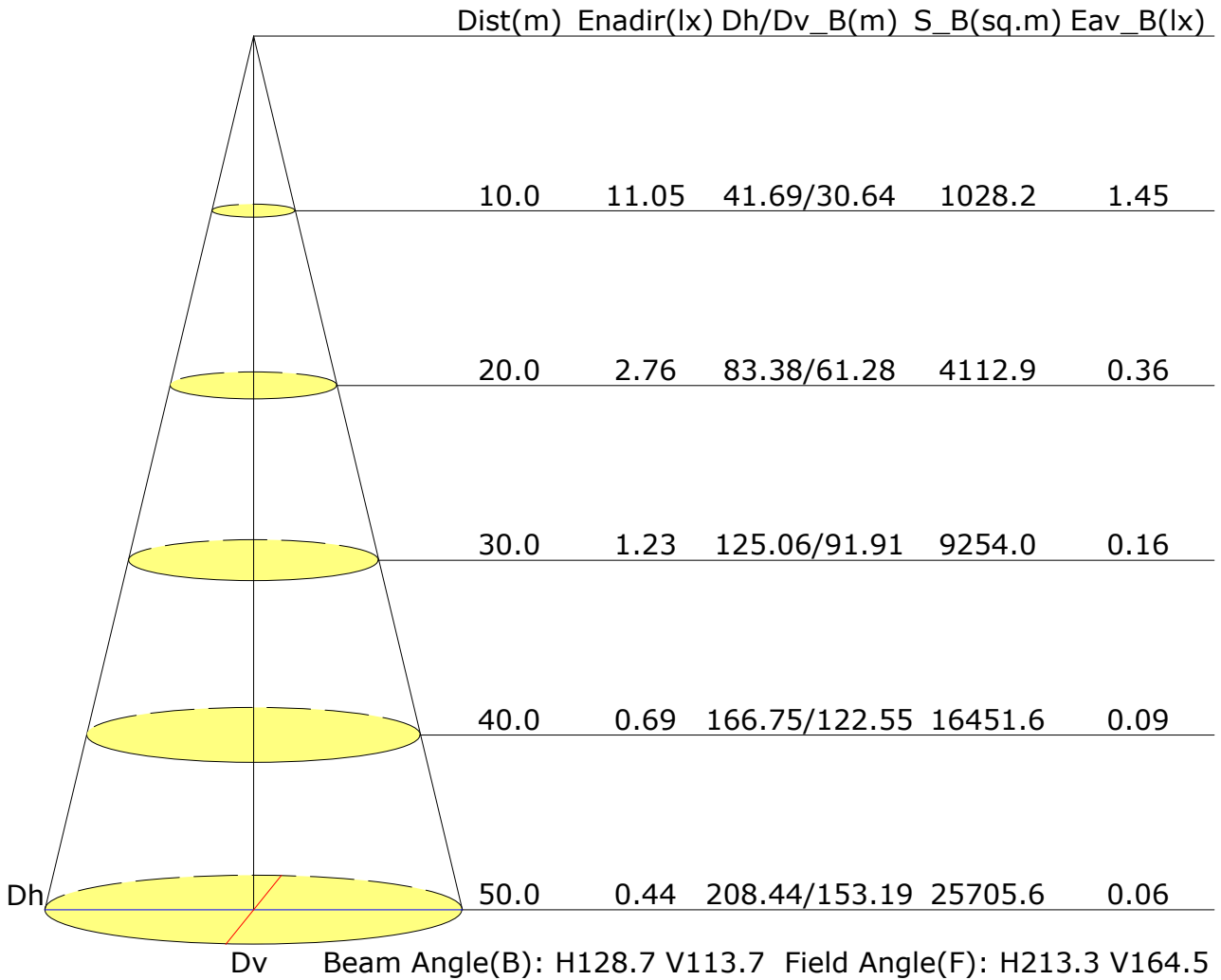


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5453	5070	4696	4329	3971	3625	3292	2975	2682
C90	8872	8680	8394	8049	7641	7133	6386	5470	4232
C180	5555	5182	4814	4454	4097	3748	3406	3080	2776
C270	9005	8807	8551	8233	7832	7260	6538	5552	4233

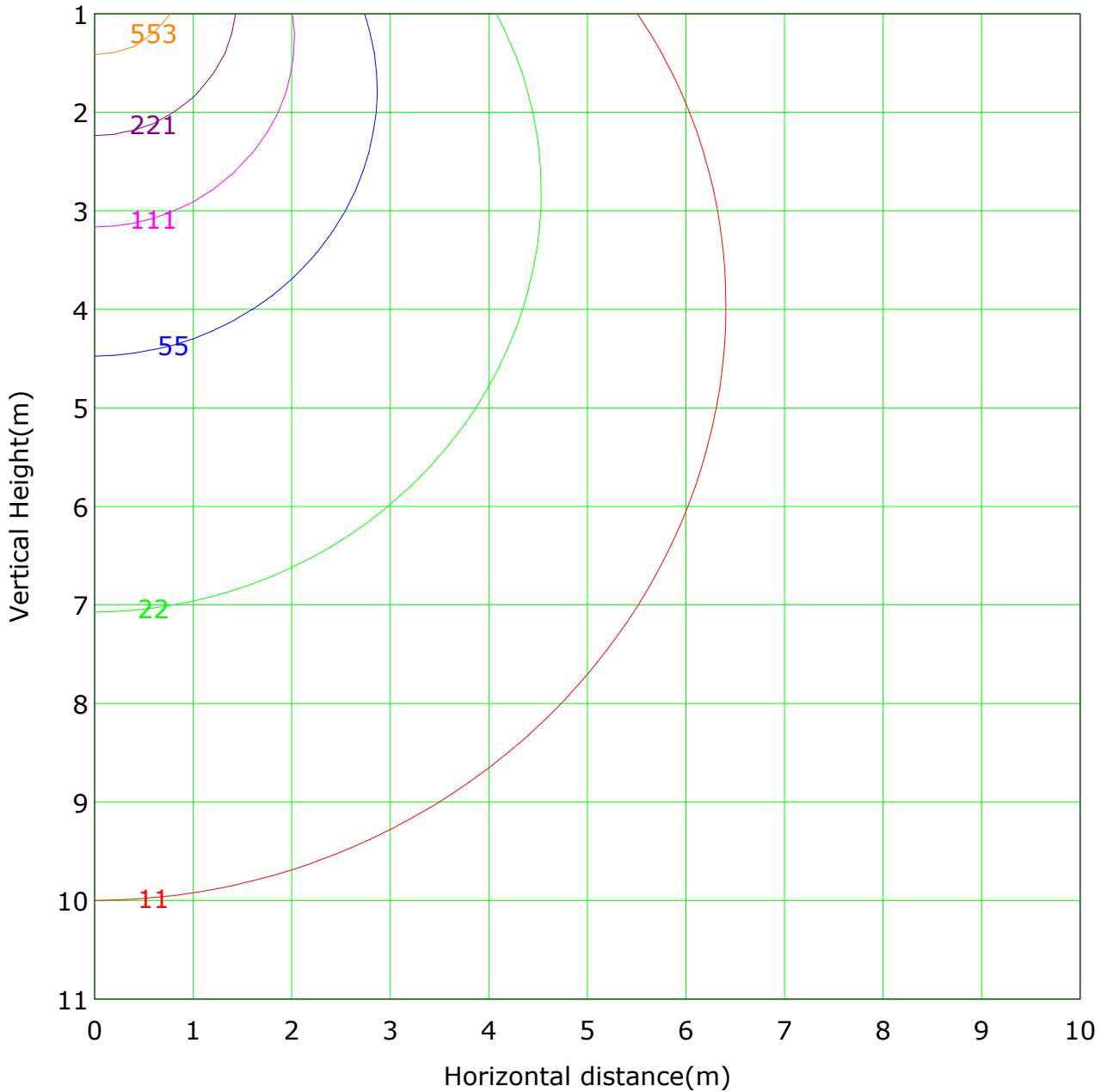
C Plane (°):0.0-360.0: 90.0  
 Test Lab: EVERFINE  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:2.0  
 Test Device:  
 Distance:  
 Humidity:  
 Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



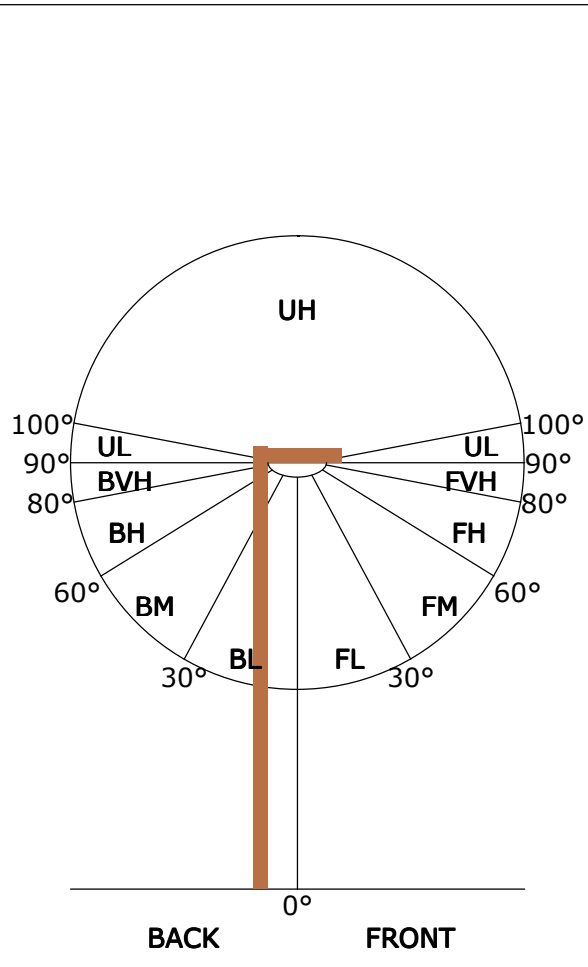
Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 1105.2 lx

— ( 1%): 11.1 lx	— ( 2%): 22.1 lx
— ( 5%): 55.3 lx	— ( 10%): 110.5 lx
— ( 20%): 221.0 lx	— ( 50%): 552.6 lx
— (100%):1105.2 lx	

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 Test Lab: EVERFINE  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:2.0  
 Test Device:  
 Distance:  
 Humidity:  
 Inspector:

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1792	46.4
	FL ( 0°-30°)	431	11.2
	FM (30°-60°)	858	22.2
	FH (60°-80°)	404	10.5
	FVH (80°-90°)	100	2.6
	BACK LIGHT	1802	46.7
	BL ( 0°-30°)	432	11.2
	BM (30°-60°)	864	22.4
	BH (60°-80°)	407	10.5
	BVH (80°-90°)	99	2.6
	UP LIGHT	263	6.8
	UL (90°-100°)	123	3.2
	UH (100°-180°)	141	3.6
	TRAPPED LIGHT	2	0.1

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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