

Report No.: 1

Test Time: 29.01.2019 09:44

## Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 250 0,3A 30W 4000K

Lamp Description: LED

Luminous Width (mm): 270

Voltage: 220.7 V

Power: 30.18 W

Luminous Length (mm): 270

Luminous Height (mm): 35

Current: 0.142 A

Power Factor: 0.962

## Photometric Results

CIE Class: Direct

Measurement Flux: 4118.9 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 151.8, 151.2, 151.5, 151.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 99.5, 98.3, 98.7, 98.2

Luminaire Efficacy Rating (LER): 136.53

Max. Intensity: 1687.24 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 4118.9 lm

Efficiency: 100%

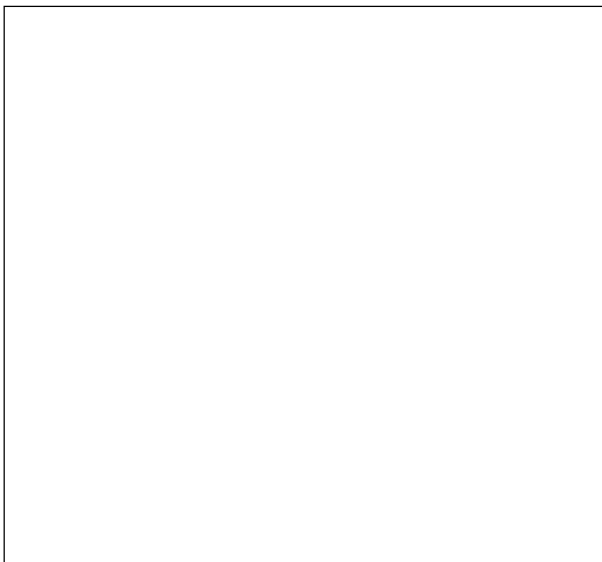
Upward Ratio: 1%

Central Intensity: 1687.24 cd

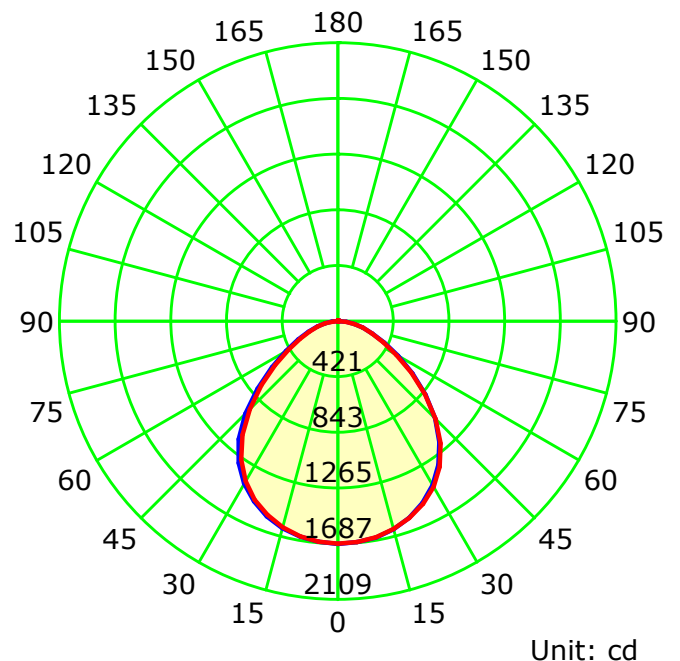
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.25

Picture Of Luminaire



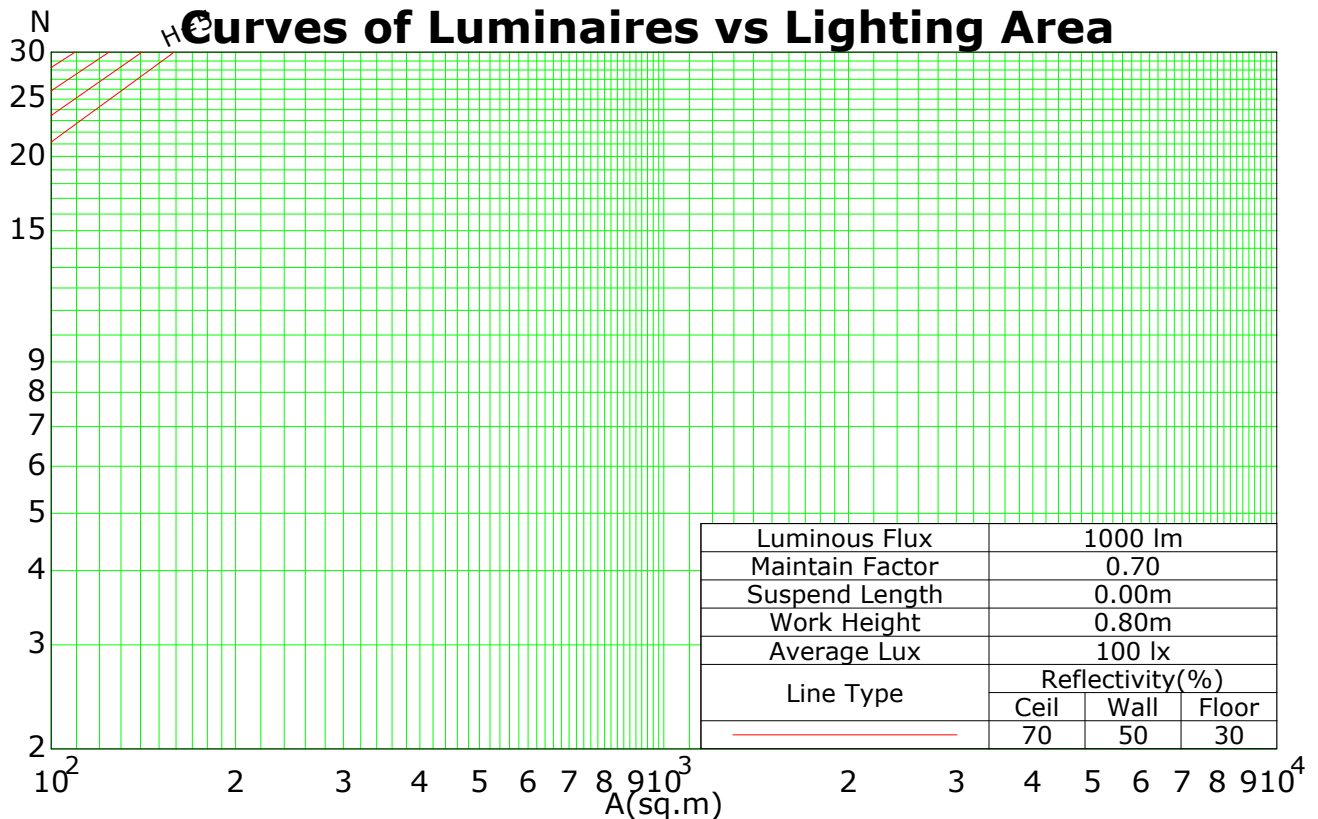
Luminous Intensity Distribution Curve



## 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	72	68	65	62
4	85	74	66	59	83	72	65	59	70	63	58	67	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	49	47
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

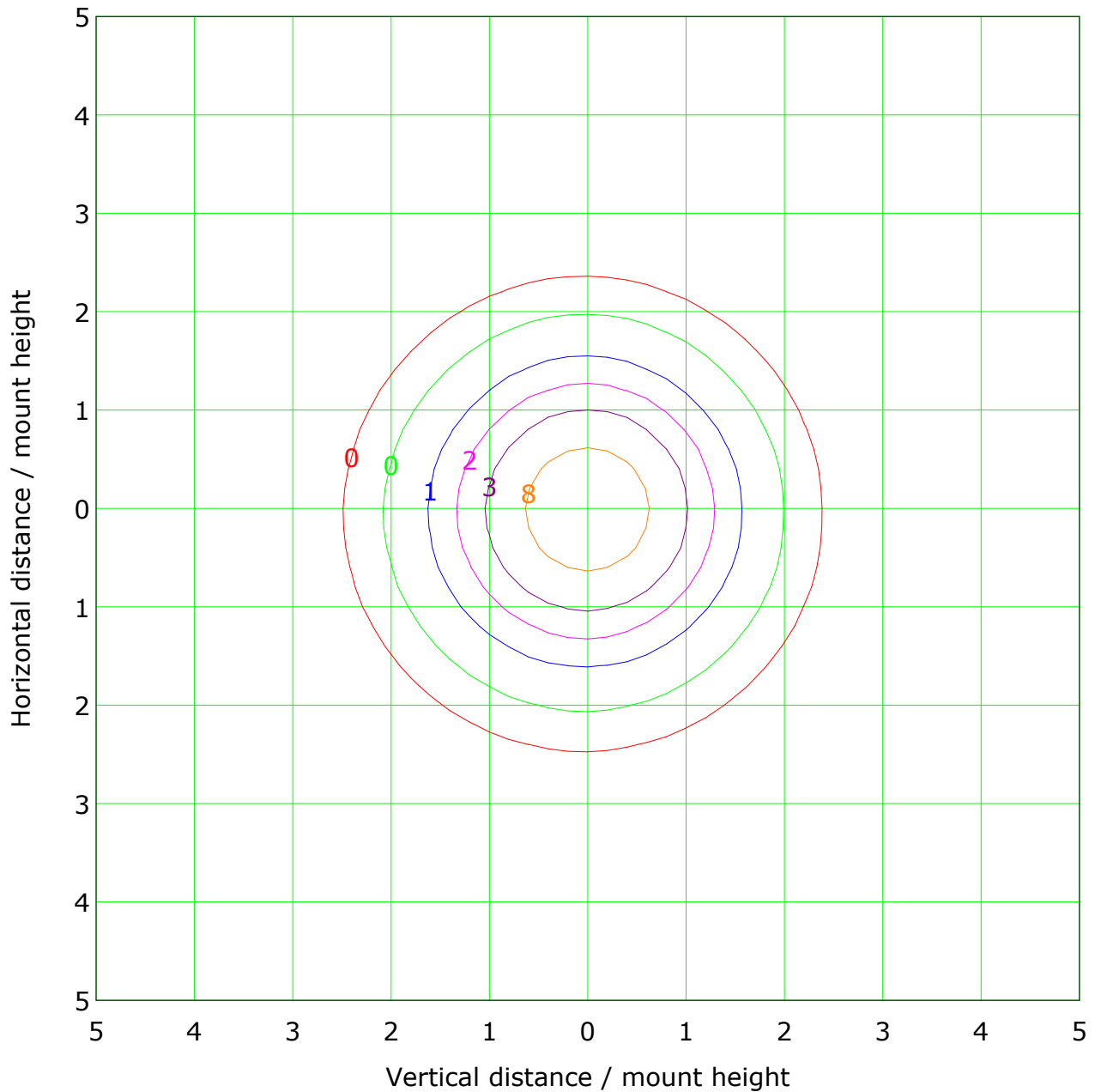
Spacing Criteria (0-180): 1.25  
 Spacing Criteria (90-270): 1.25  
 Spacing Criteria (Diagonal): 1.31



C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:5.0  
 Test Device: LSG-1800B  
 Distance: 12.654 m  
 Humidity:  
 Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 16.9 lx

( 1%): 0.2 lx	( 2%): 0.3 lx
( 5%): 0.8 lx	( 10%): 1.7 lx
( 20%): 3.4 lx	( 50%): 8.4 lx
(100%): 16.9 lx	

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

Test Device: LSG-1800B

Distance: 12.654 m

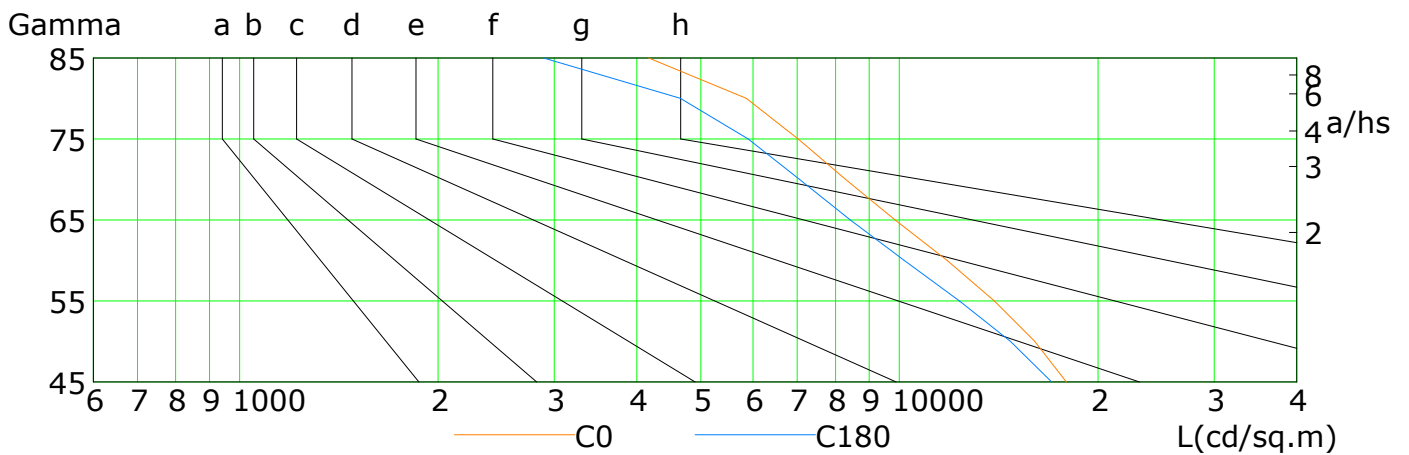
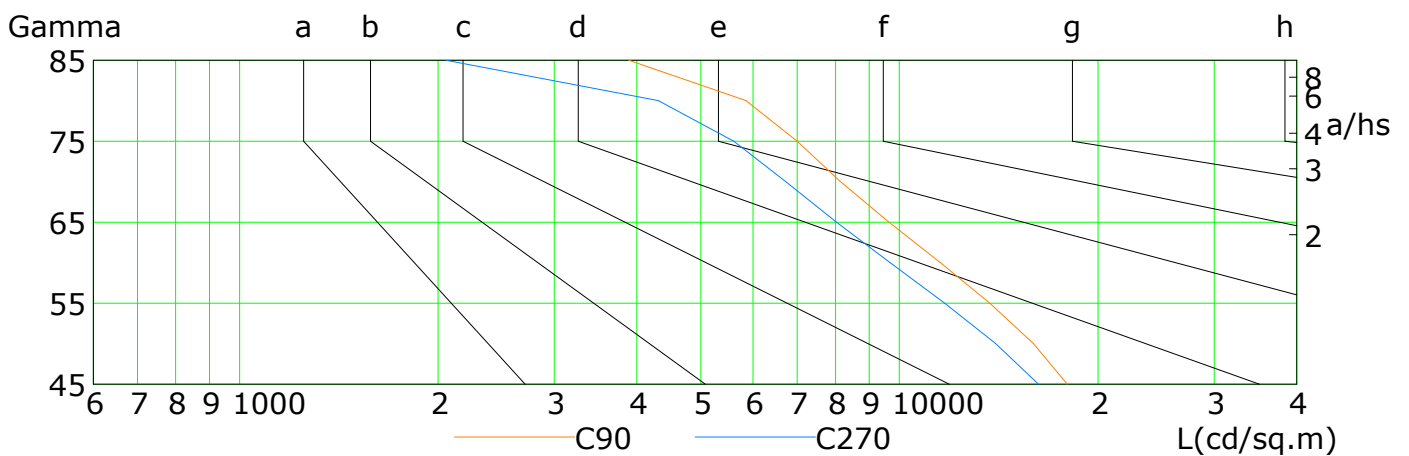
Humidity:

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	17917	16035	13932	11800	9853	8282	7023	5859	4169
C90	17968	15961	13705	11533	9648	8140	7001	5856	3890
C180	17018	14729	12332	10169	8425	7058	5902	4656	2889
C270	16245	13989	11711	9677	8030	6725	5609	4309	2057

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

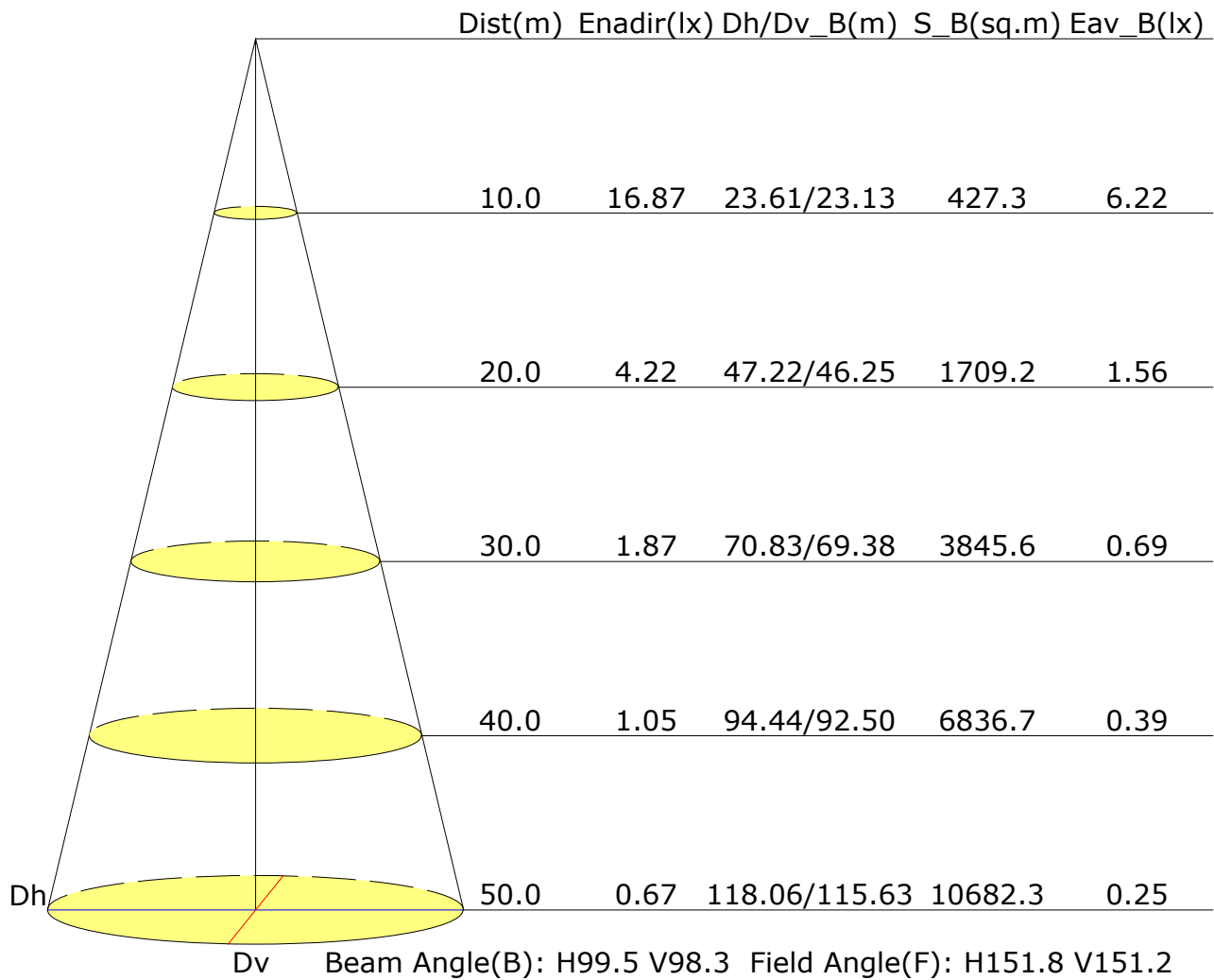
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

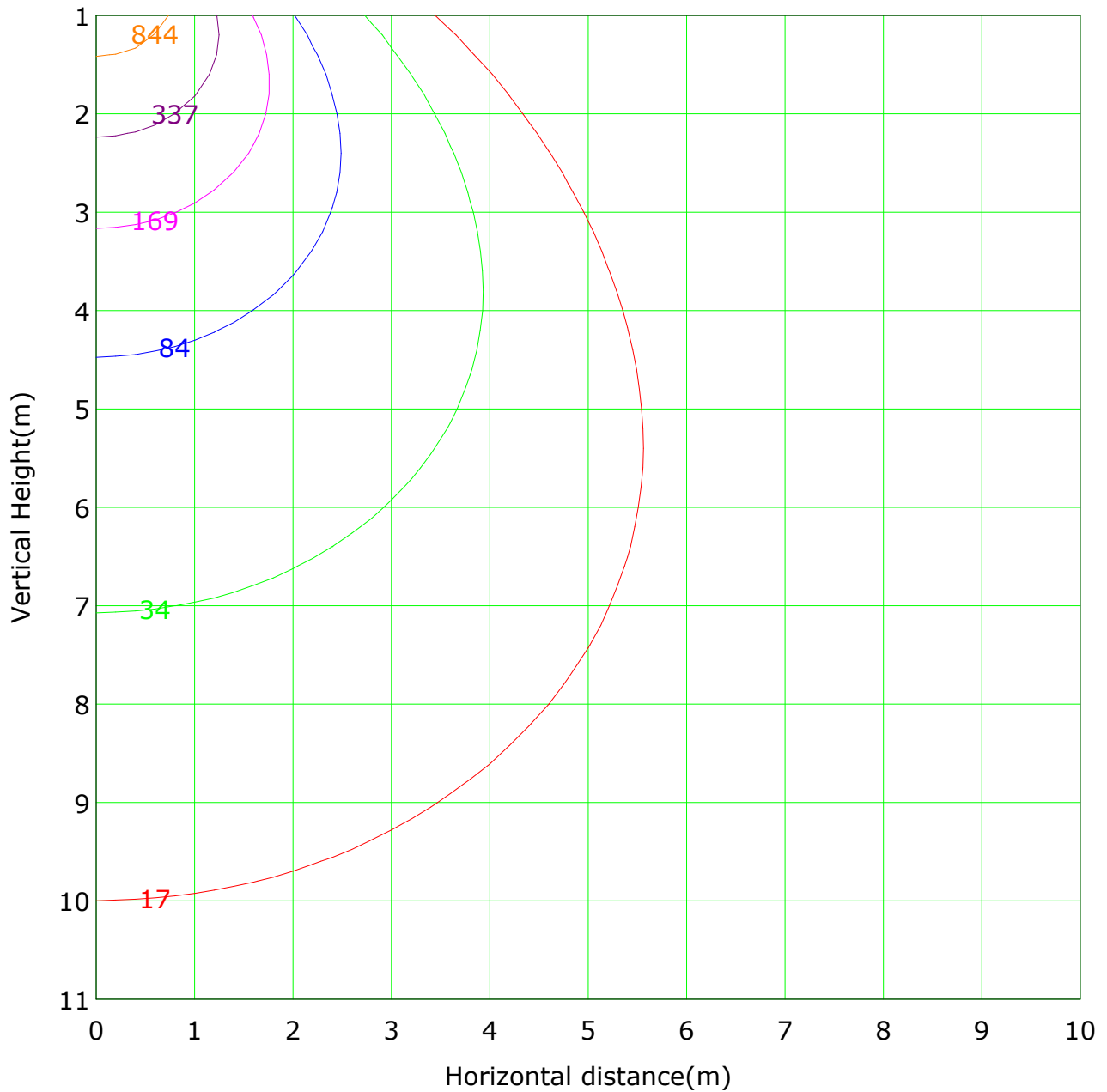
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 1687.2 lx  
— ( 1%): 16.9 lx    — ( 2%): 33.7 lx  
— ( 5%): 84.4 lx    — ( 10%): 168.7 lx  
— ( 20%): 337.4 lx    — ( 50%): 843.6 lx  
— (100%):1687.2 lx

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

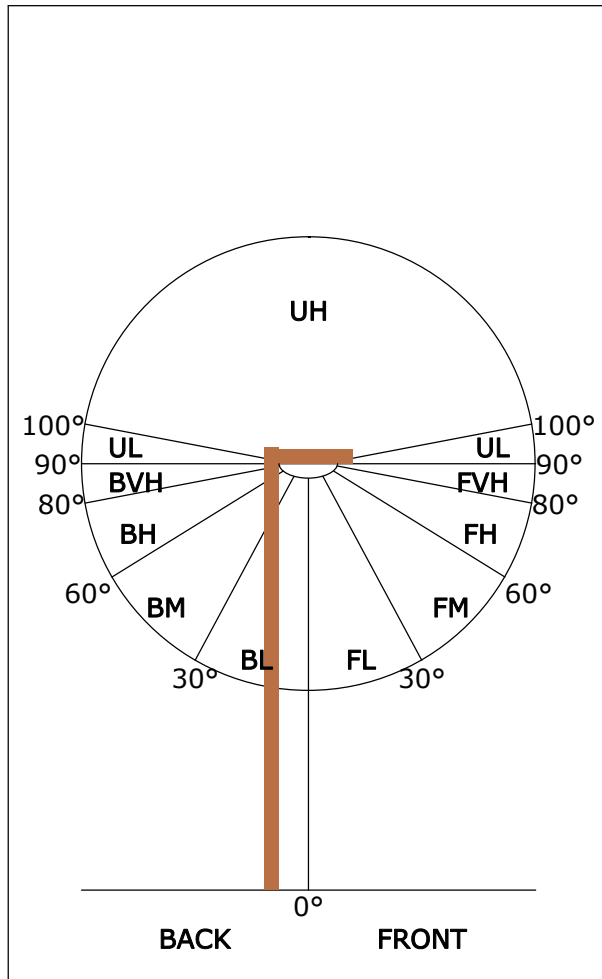
Gamma Plane (°):0.0-180.0:5.0

Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

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

ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2103	51.1
FL ( 0°-30°)	662	16.1
FM (30°-60°)	1116	27.1
FH (60°-80°)	291	7.1
FVH (80°-90°)	35	0.8
BACK LIGHT	1985	48.2
BL ( 0°-30°)	654	15.9
BM (30°-60°)	1049	25.5
BH (60°-80°)	256	6.2
BVH (80°-90°)	26	0.6
UP LIGHT	31	0.7
UL (90°-100°)	5	0.1
UH (100°-180°)	26	0.6
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U2 G1

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector: