

Report No.: 1

Test Time: 19.11.2018 15:32

## Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 80 60LED 0,3A 32W 5000K 2ZT25

Lamp Description: LED

Luminous Width (mm): 80

Voltage: 220.7 V

Power: 29.07 W

Luminous Length (mm): 1500

Luminous Height (mm): 75

Current: 0.134 A

Power Factor: 0.976

## Photometric Results

CIE Class: Direct

Measurement Flux: 4075 lm

Downward Ratio: 96%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.0, 142.7, 143.9, 141.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 104.7, 73.8, 85.8, 87.0

Luminaire Efficacy Rating (LER): 140.23

Max. Intensity: 2196 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 4075.0 lm

Efficiency: 100%

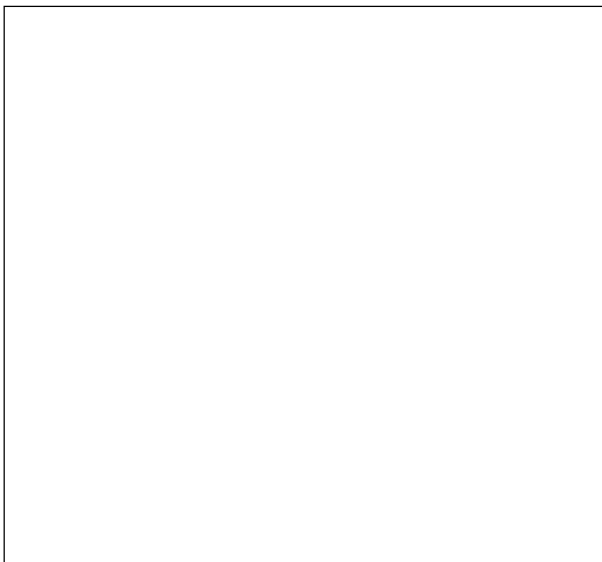
Upward Ratio: 4%

Central Intensity: 1340.96 cd

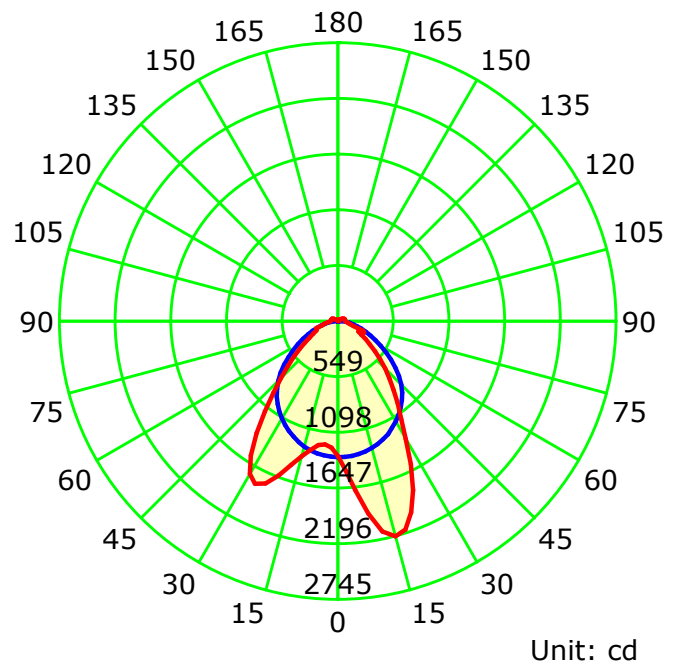
Pos of Max. Intensity: H90 V15

S/MH(C90/C270): 1.42

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:3.0

Test Device: LSG-1800B

Distance: 12.654 m

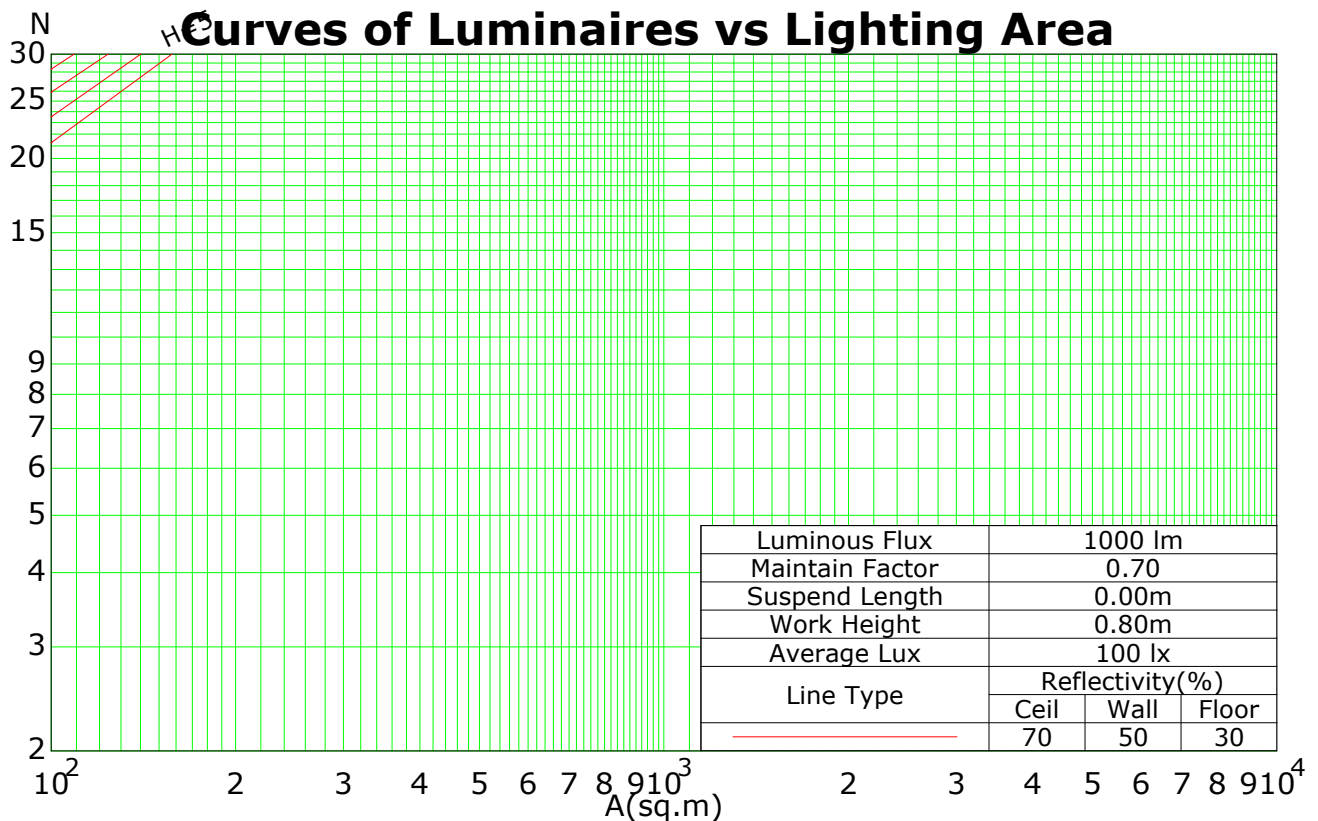
Humidity:

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	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82
2	100	92	86	81	97	90	84	79	86	81	77	82	78	75	79	75	72	70
3	92	82	75	69	89	80	73	68	77	71	66	74	69	64	71	66	63	61
4	85	74	65	59	82	72	64	59	69	63	57	66	61	56	64	59	55	53
5	78	66	58	52	76	65	57	51	62	56	50	60	54	49	58	53	49	46
6	73	60	52	46	70	59	51	45	57	50	45	55	49	44	53	47	43	41
7	67	55	46	41	66	54	46	40	52	45	40	50	44	39	49	43	39	37
8	63	50	42	36	61	49	42	36	48	41	36	46	40	35	45	39	35	33
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	33	29	38	33	29	27

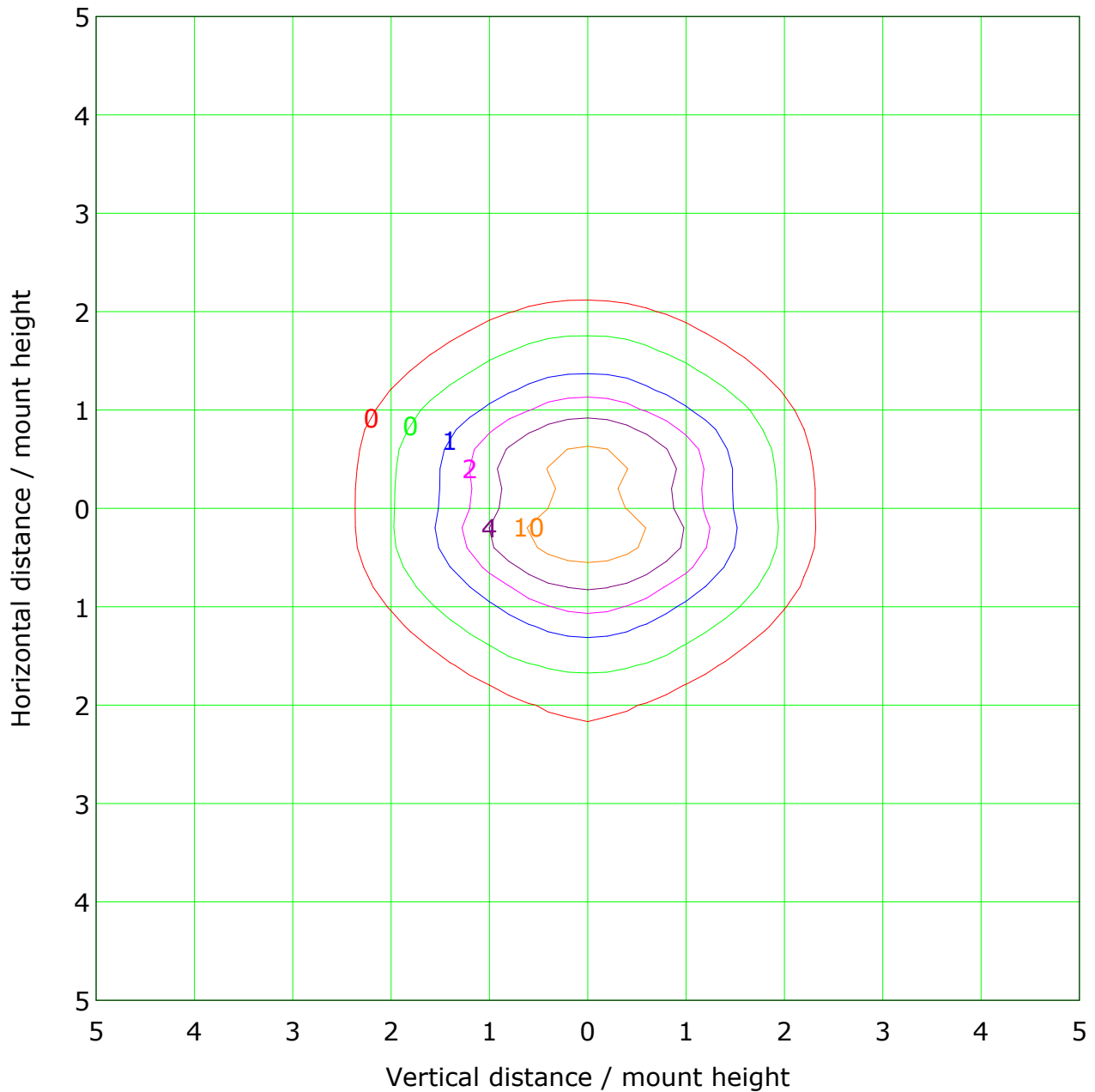
Spacing Criteria (0-180): 1.25  
 Spacing Criteria (90-270): 1.42  
 Spacing Criteria (Diagonal): 1.41



C Plane (°):0.0-360.0: 10.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:3.0  
 Test Device: LSG-1800B  
 Distance: 12.654 m  
 Humidity:  
 Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 19.8 lx

( 1%): 0.2 lx	( 2%): 0.4 lx
( 5%): 1.0 lx	( 10%): 2.0 lx
( 20%): 4.0 lx	( 50%): 9.9 lx
(100%): 19.8 lx	

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:3.0

Test Device: LSG-1800B

Distance: 12.654 m

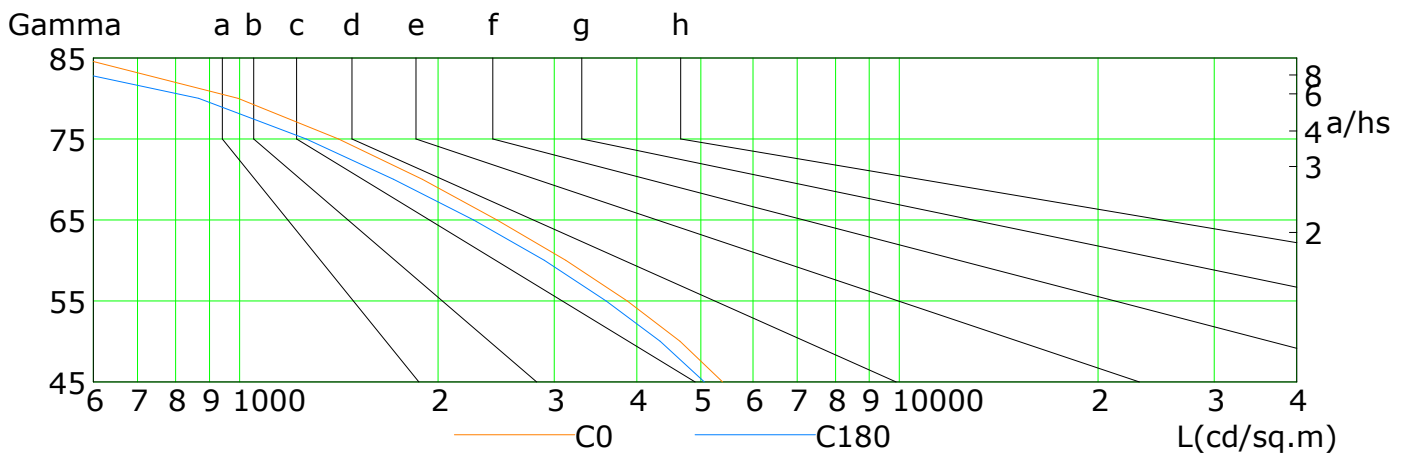
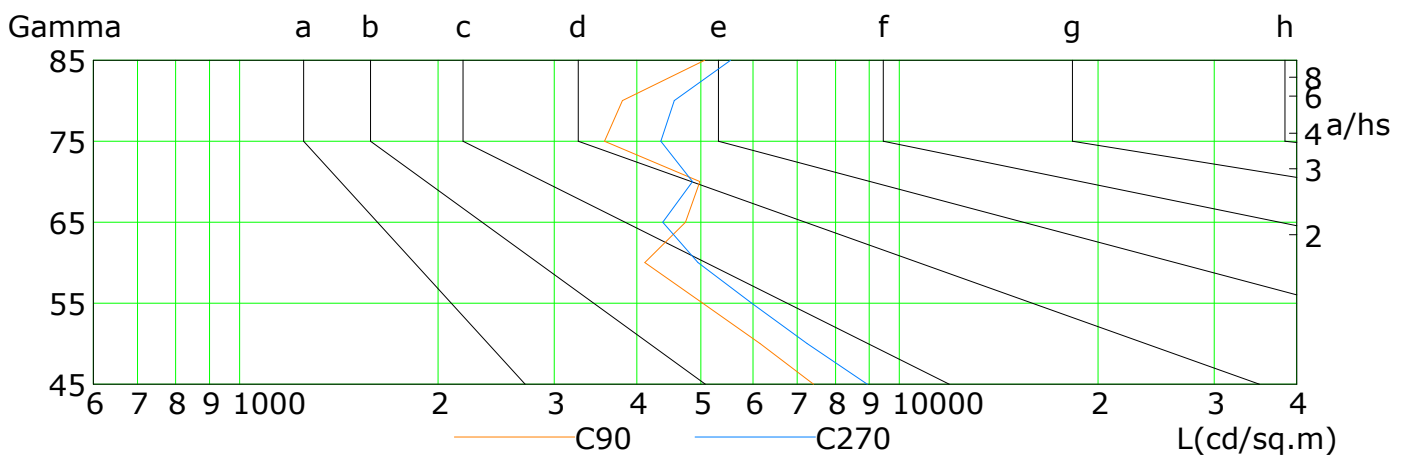
Humidity:

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	5395	4652	3870	3120	2456	1892	1412	995	573
C90	7413	6151	5036	4114	4740	4985	3574	3804	5069
C180	5063	4342	3592	2895	2263	1711	1262	867	450
C270	8942	7248	5971	4951	4380	4856	4352	4558	5550

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:3.0

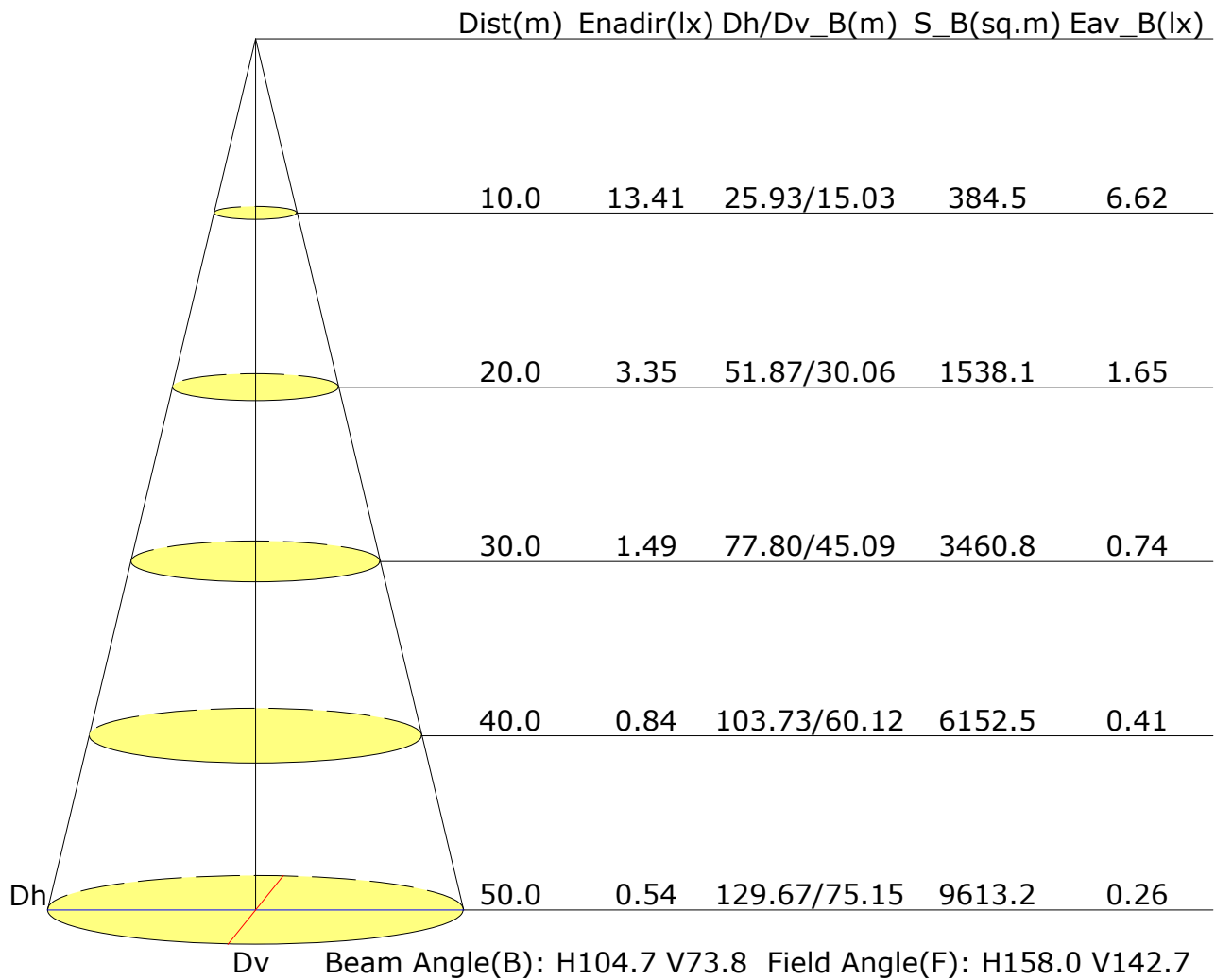
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## Illuminance at a Distance



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:3.0

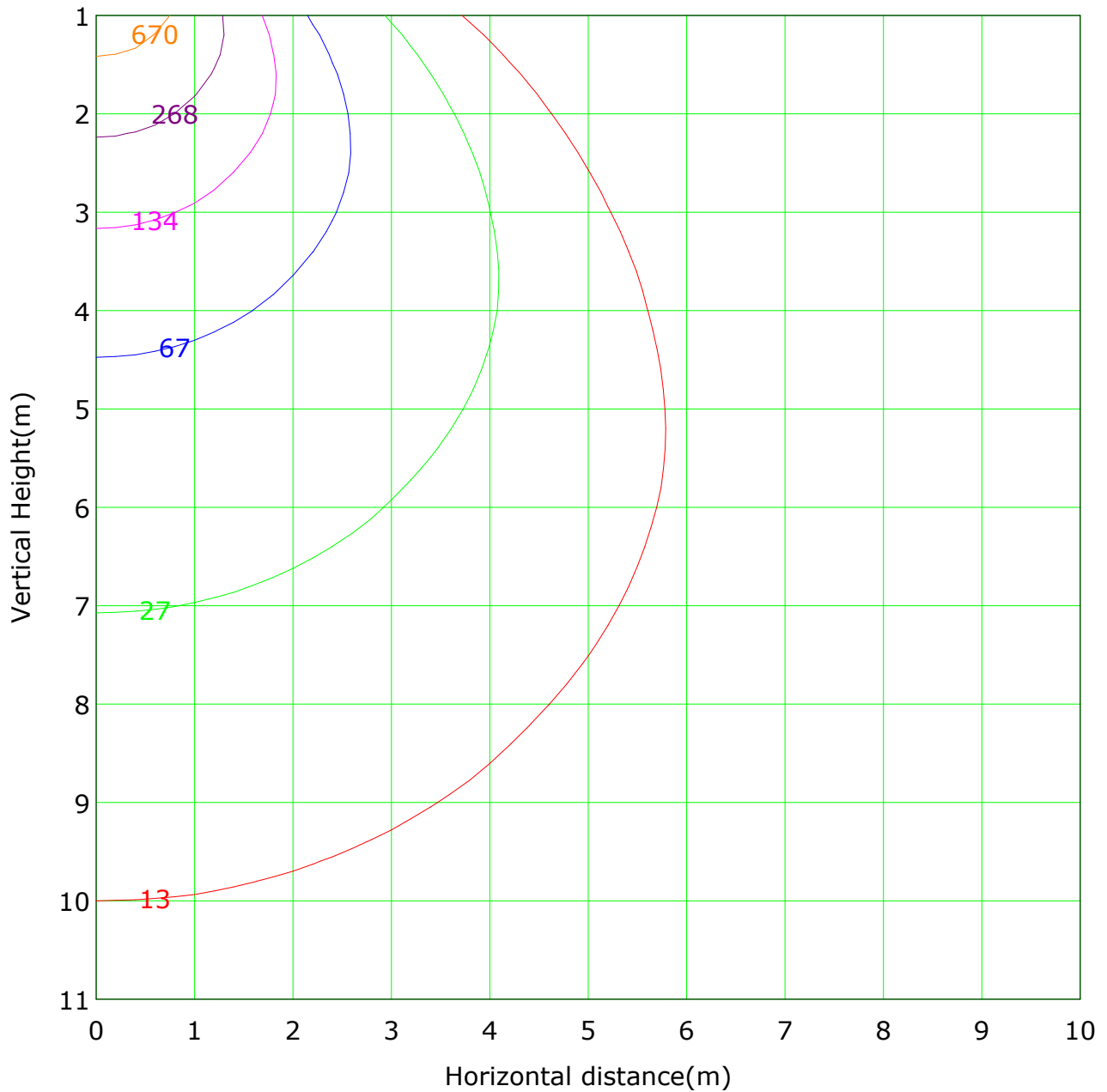
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 1341.0 lx  
— ( 1%): 13.4 lx    — ( 2%): 26.8 lx  
— ( 5%): 67.0 lx    — ( 10%): 134.1 lx  
— ( 20%): 268.2 lx    — ( 50%): 670.5 lx  
— (100%):1341.0 lx

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

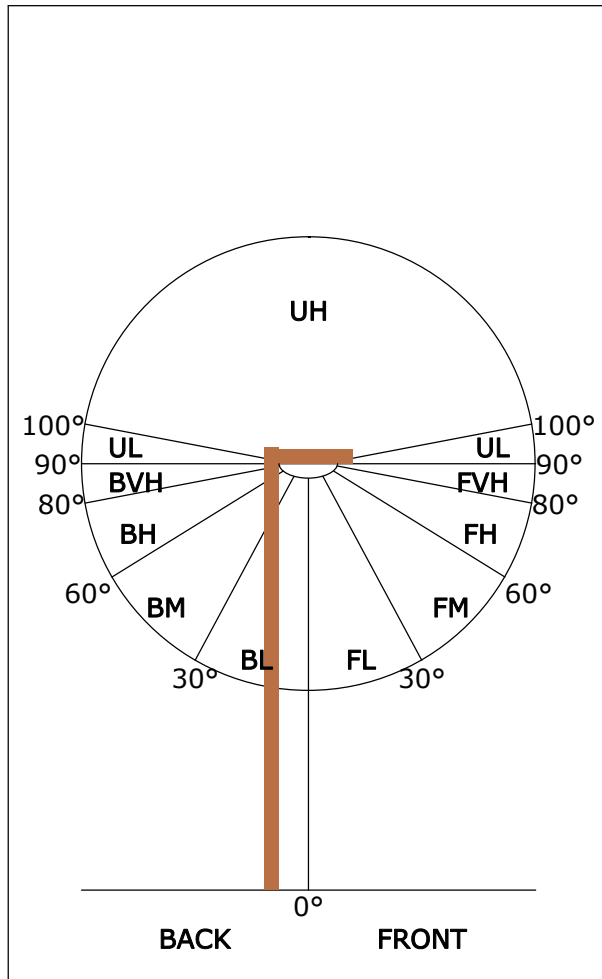
Gamma Plane (°):0.0-180.0:3.0

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	1957	48.0
FL ( 0°-30°)	743	18.2
FM (30°-60°)	980	24.0
FH (60°-80°)	235	5.8
FVH (80°-90°)	-1	-0.0
BACK LIGHT	1862	45.7
BL ( 0°-30°)	570	14.0
BM (30°-60°)	1039	25.5
BH (60°-80°)	254	6.2
BVH (80°-90°)	-1	-0.0
UP LIGHT	173	4.2
UL (90°-100°)	58	1.4
UH (100°-180°)	115	2.8
TRAPPED LIGHT	82	2.0

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U3 G0

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:3.0

Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector: