

Report No.:

Test Time: 03.11.2018 12:08

## Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 80 60LED 0,30A 32W 5000K ZT 25

Lamp Description: LED

Luminous Width (mm): 80

Voltage: 221.8 V

Power: 29.35 W

Luminous Length (mm): 1500

Luminous Height (mm): 75

Current: 0.135 A

Power Factor: 0.977

## Photometric Results

CIE Class: Direct

Measurement Flux: 3921.1 lm

Downward Ratio: 96%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.7, 113.2, 126.4, 128.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 86.9, 39.5, 50.9, 51.8

Luminaire Efficacy Rating (LER): 133.65

Max. Intensity: 3181.49 cd

S/MH(C0/C180): 1.17

Total Rated Lamp Lumens: 3921.1 lm

Efficiency: 100%

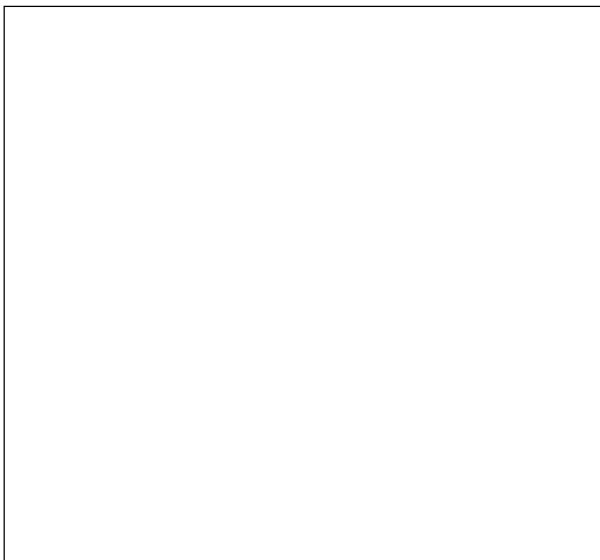
Upward Ratio: 4%

Central Intensity: 1241.55 cd

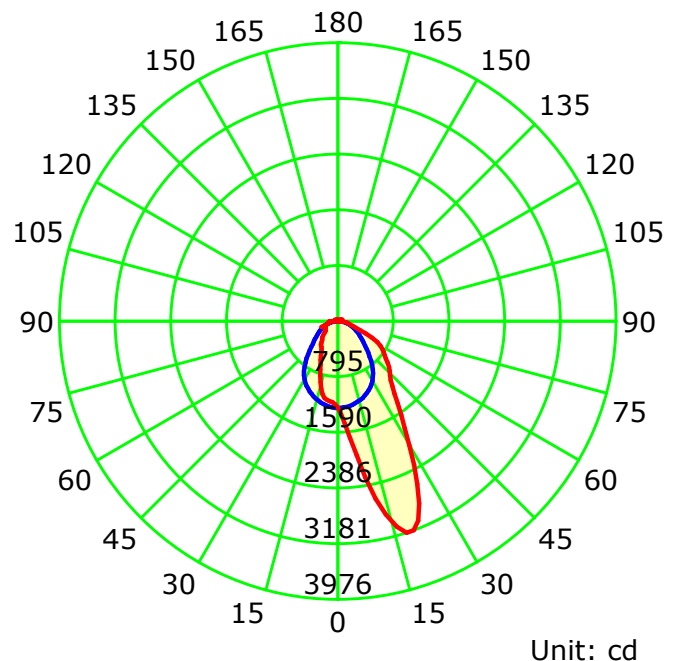
Pos of Max. Intensity: H90 V18

S/MH(C90/C270): 1.31

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

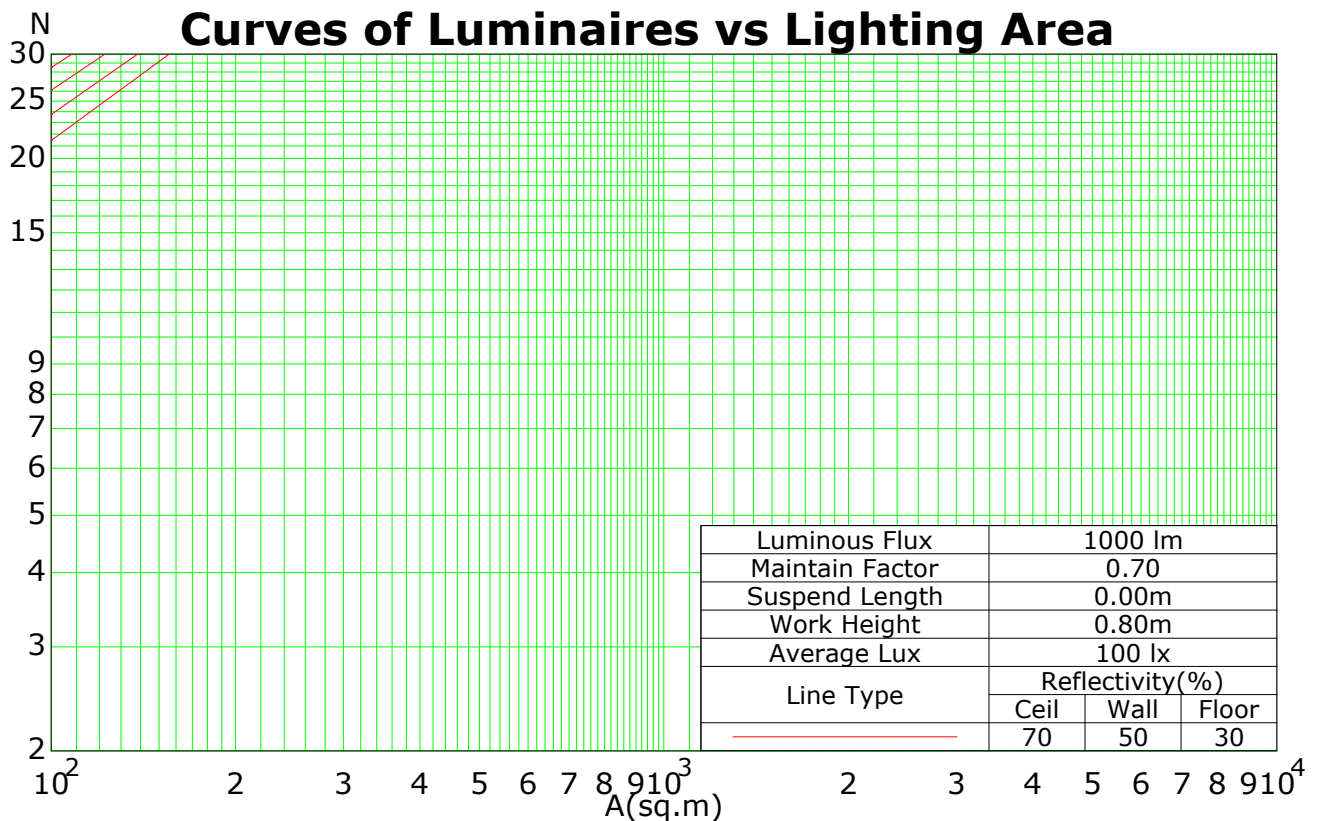
Humidity:

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	104	104	104	99	99	99	96
1	108	104	100	96	105	101	98	94	96	93	91	92	89	87	88	86	84	82
2	99	92	85	80	97	90	84	79	85	81	76	82	78	74	78	75	72	70
3	91	81	74	68	89	80	73	67	76	70	65	73	68	64	70	66	62	60
4	84	73	65	58	82	71	64	58	68	62	57	66	60	55	63	58	54	52
5	78	66	57	51	76	64	56	51	62	55	50	60	54	49	57	52	48	46
6	72	60	51	45	70	58	50	45	56	49	44	54	48	43	52	47	43	41
7	67	54	46	40	65	53	45	40	52	44	39	50	44	39	48	43	38	36
8	63	50	42	36	61	49	41	36	47	40	35	46	40	35	44	39	35	33
9	59	46	38	33	57	45	38	33	44	37	32	42	36	32	41	36	31	30
10	55	42	35	30	54	42	35	30	41	34	29	39	33	29	38	33	29	27

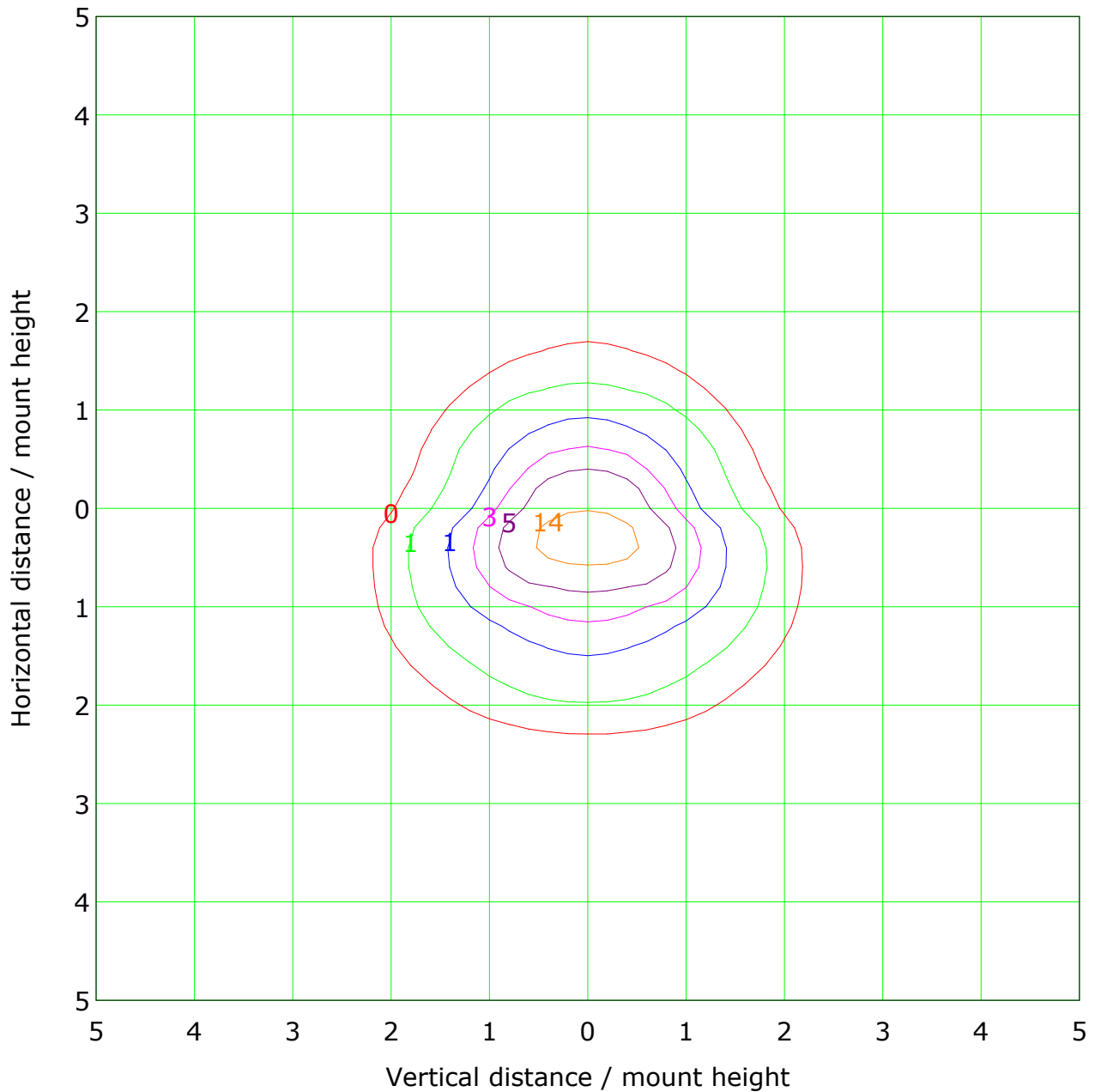
Spacing Criteria (0-180): 1.17  
 Spacing Criteria (90-270): 1.31  
 Spacing Criteria (Diagonal): 1.46



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

Gamma Plane (°):0.0-180.0:2.0  
 Test Device: LSG-1800B  
 Distance: 12.654 m  
 Humidity:  
 Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 27.4 lx

( 1%): 0.3 lx	( 2%): 0.5 lx
( 5%): 1.4 lx	( 10%): 2.7 lx
( 20%): 5.5 lx	( 50%): 13.7 lx
(100%): 27.4 lx	

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

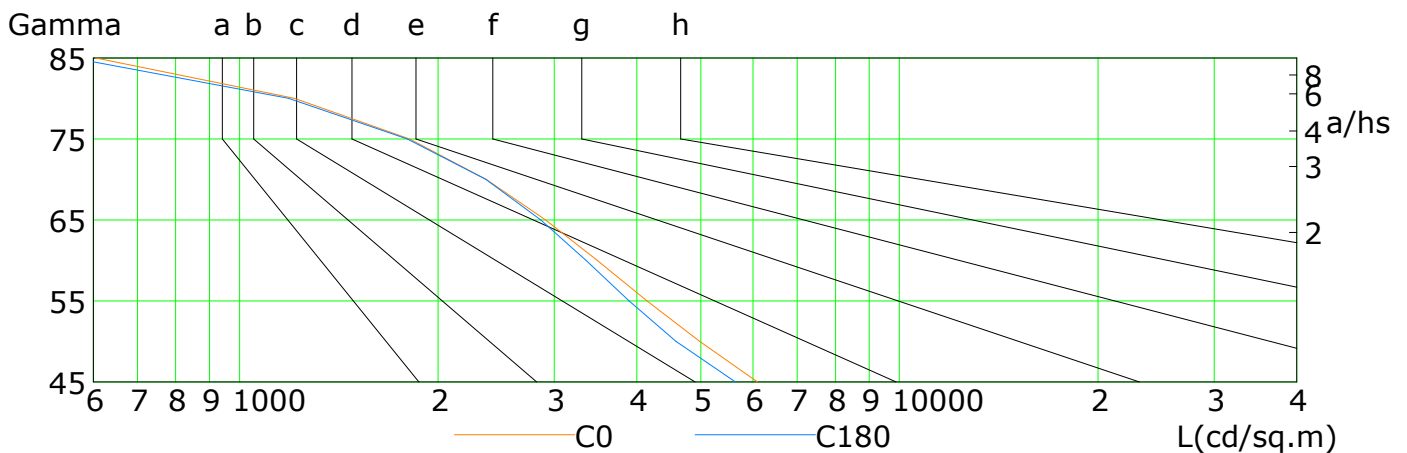
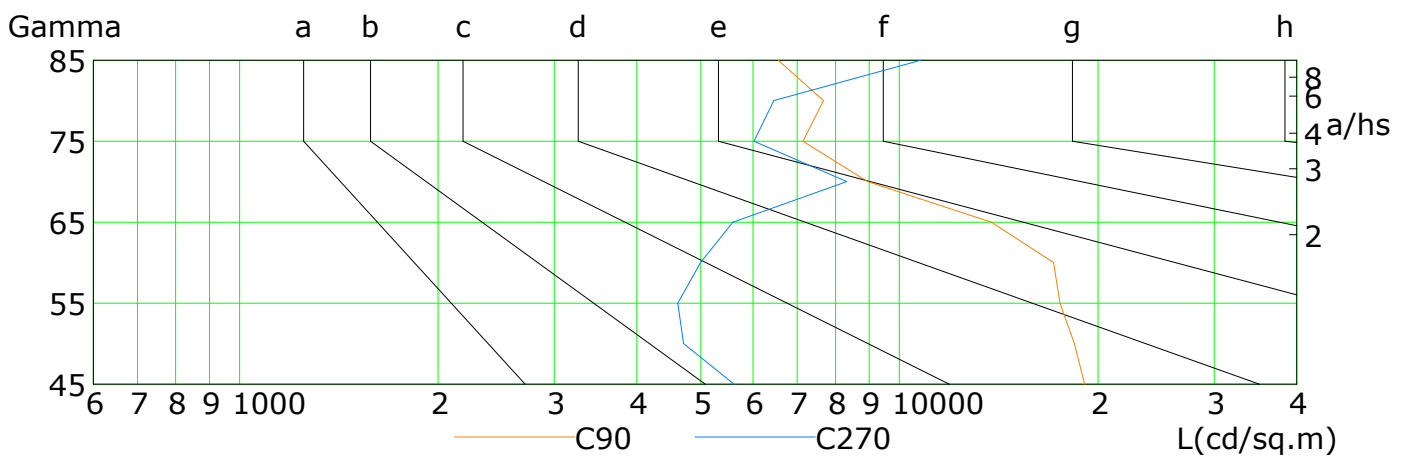
Humidity:

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	6095	4982	4145	3484	2909	2364	1810	1211	606
C90	19086	18412	17504	17131	13796	8948	7138	7675	6554
C180	5644	4585	3892	3350	2862	2361	1797	1186	560
C270	5620	4707	4616	4997	5594	8325	6023	6453	10768

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

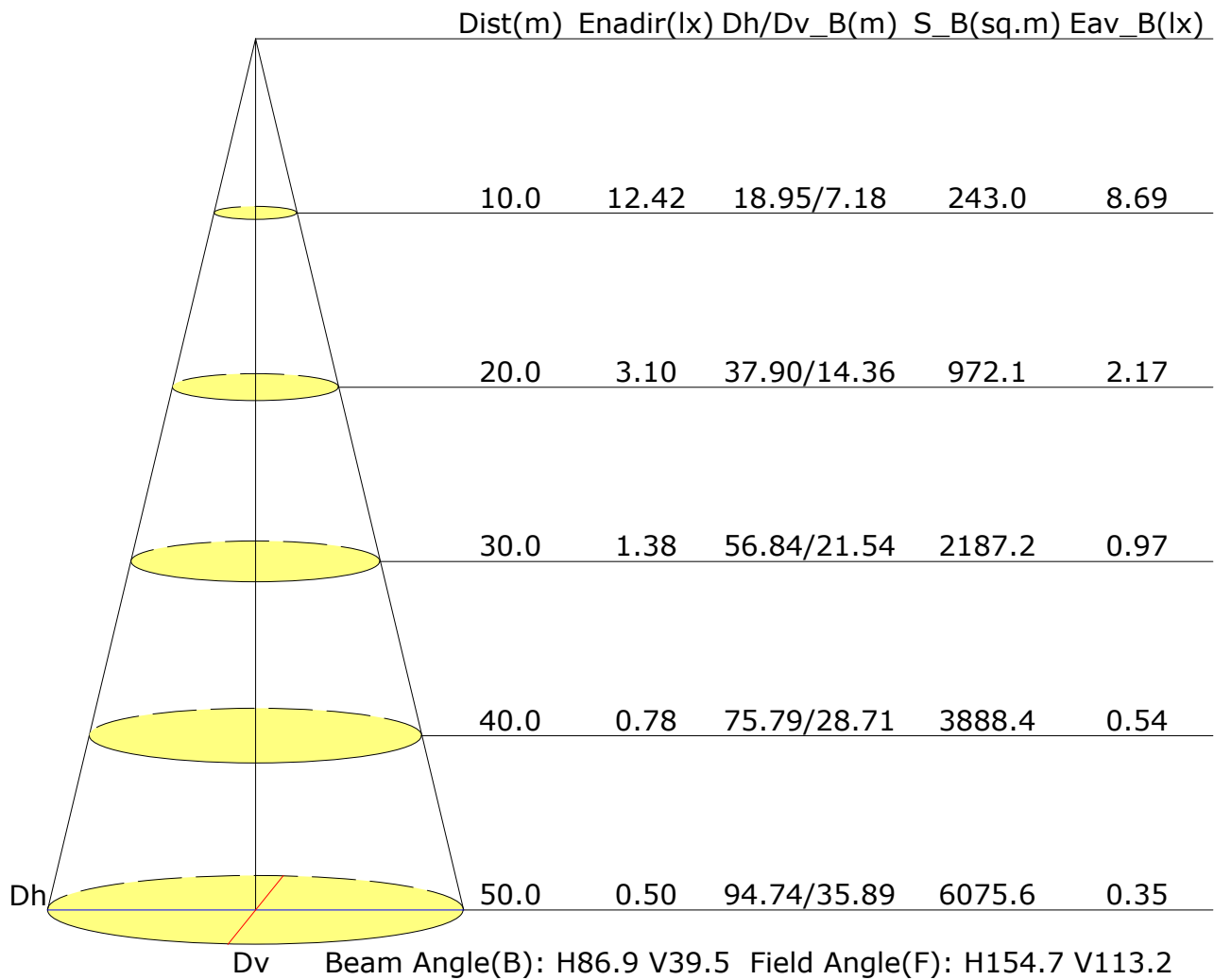
Test Device: LSG-1800B

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 (°):0.0-180.0:2.0

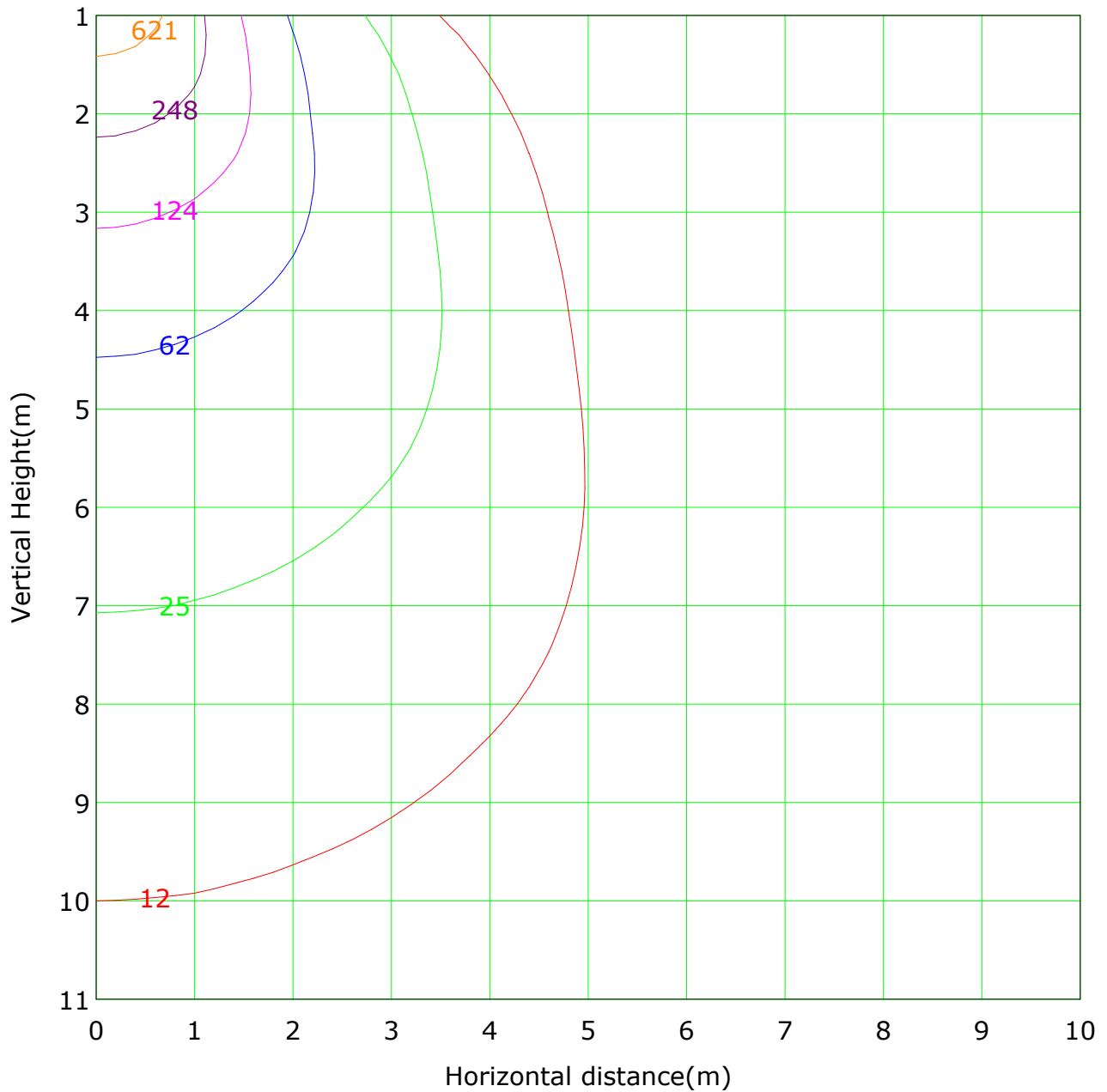
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 1241.6 lx  
— ( 1%): 12.4 lx                      — ( 2%): 24.8 lx  
— ( 5%): 62.1 lx                        — (10%): 124.2 lx  
— (20%): 248.3 lx                      — (50%): 620.8 lx  
— (100%):1241.6 lx

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

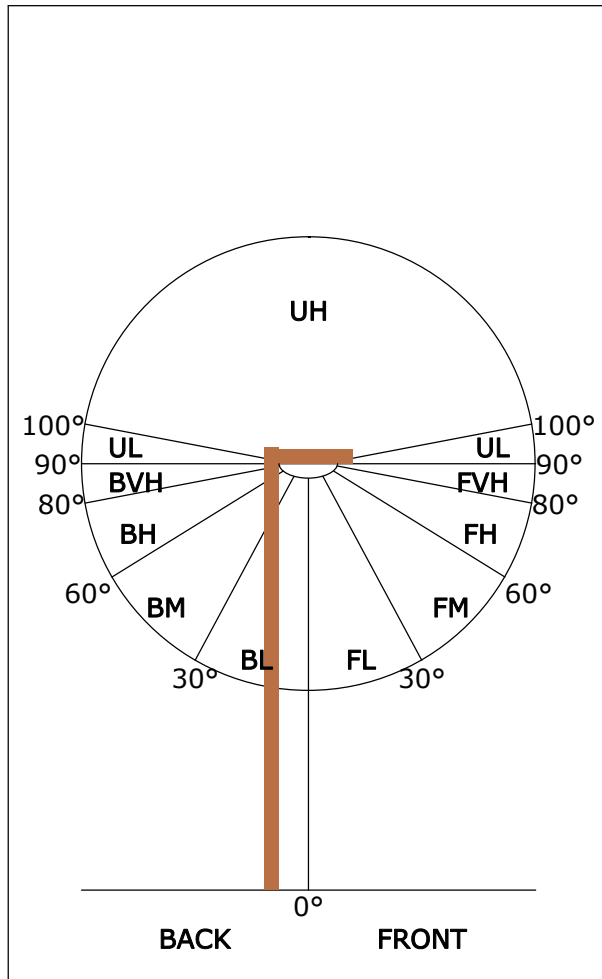
Gamma Plane (°):0.0-180.0:2.0

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	2743	70.0
FL ( 0°-30°)	919	23.4
FM (30°-60°)	1408	35.9
FH (60°-80°)	369	9.4
FVH (80°-90°)	48	1.2
BACK LIGHT	1029	26.2
BL ( 0°-30°)	377	9.6
BM (30°-60°)	430	11.0
BH (60°-80°)	175	4.5
BVH (80°-90°)	46	1.2
UP LIGHT	149	3.8
UL (90°-100°)	42	1.1
UH (100°-180°)	107	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 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U3 G1

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 Test Device: LSG-1800B  
 Distance: 12.654 m  
 Humidity:  
 Inspector: