

Report No.: 1

Test Time: 26.01.2019 18:20

## Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 1500 0,35A 40,8W 4000K

Lamp Description: LED

Luminous Width (mm): 115

Voltage: 220.7 V

Power: 40.75 W

Luminous Length (mm): 1500

Luminous Height (mm): 64

Current: 0.188 A

Power Factor: 0.979

## Photometric Results

CIE Class: Direct

Measurement Flux: 6288.4 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.3, 161.3, 152.1, 152.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 80.3, 83.0, 78.4, 78.7

Luminaire Efficacy Rating (LER): 154.37

Max. Intensity: 3079.16 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 6288.4 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 3077.42 cd

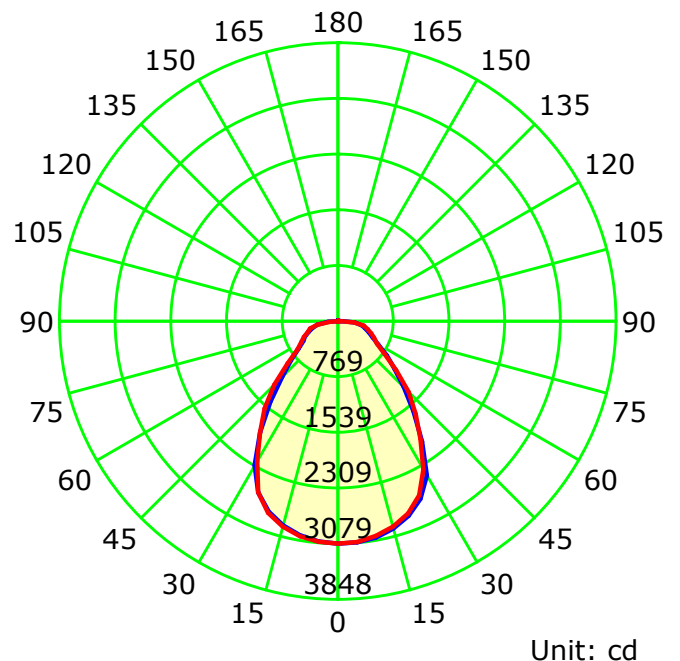
Pos of Max. Intensity: H45 V0

S/MH(C90/C270): 1.13

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

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

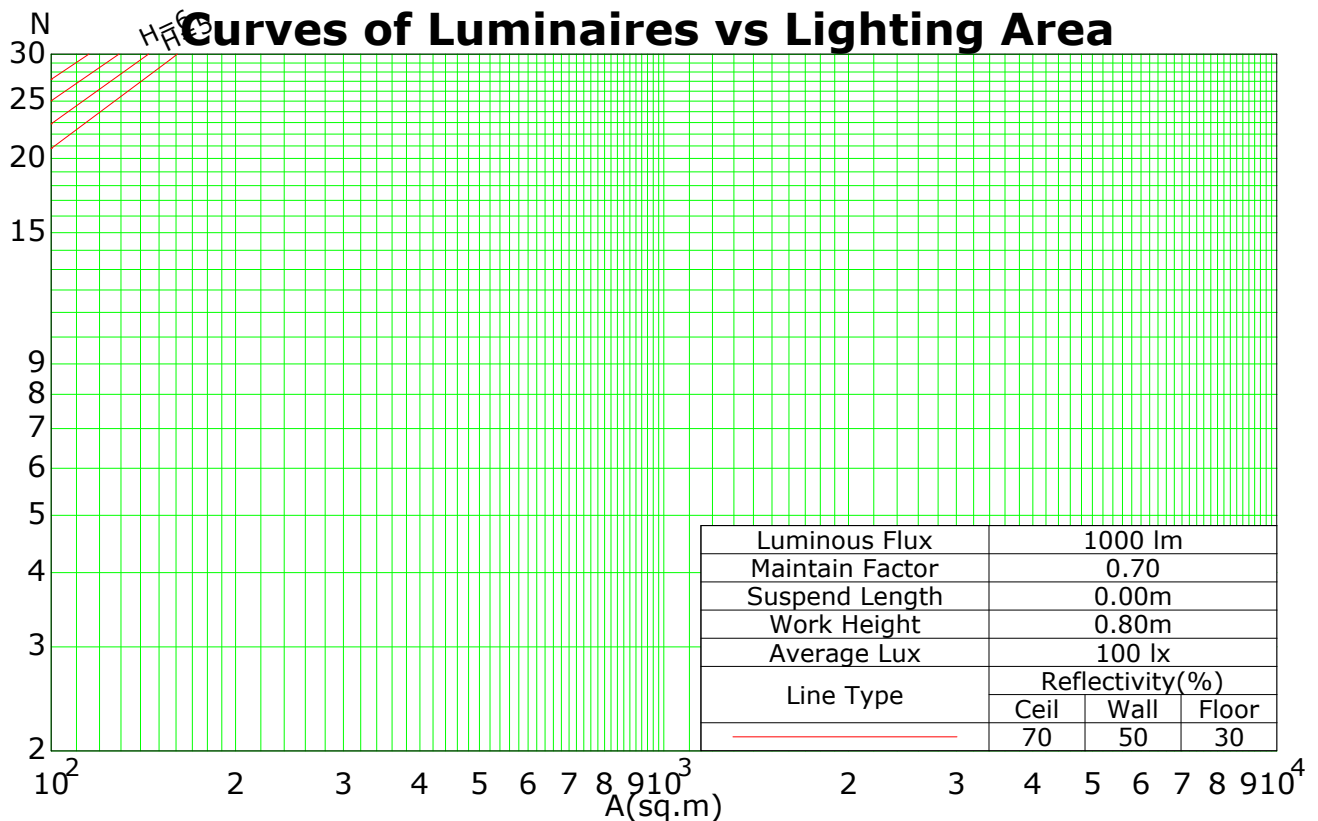
Humidity:

Inspector:

## 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	109	105	101	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	83	75	69	90	81	74	69	78	72	67	75	70	66	73	68	65	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	60	55	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	55	50	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	46	42	51	46	41	39
8	65	52	44	39	63	51	44	38	50	43	38	49	42	38	47	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

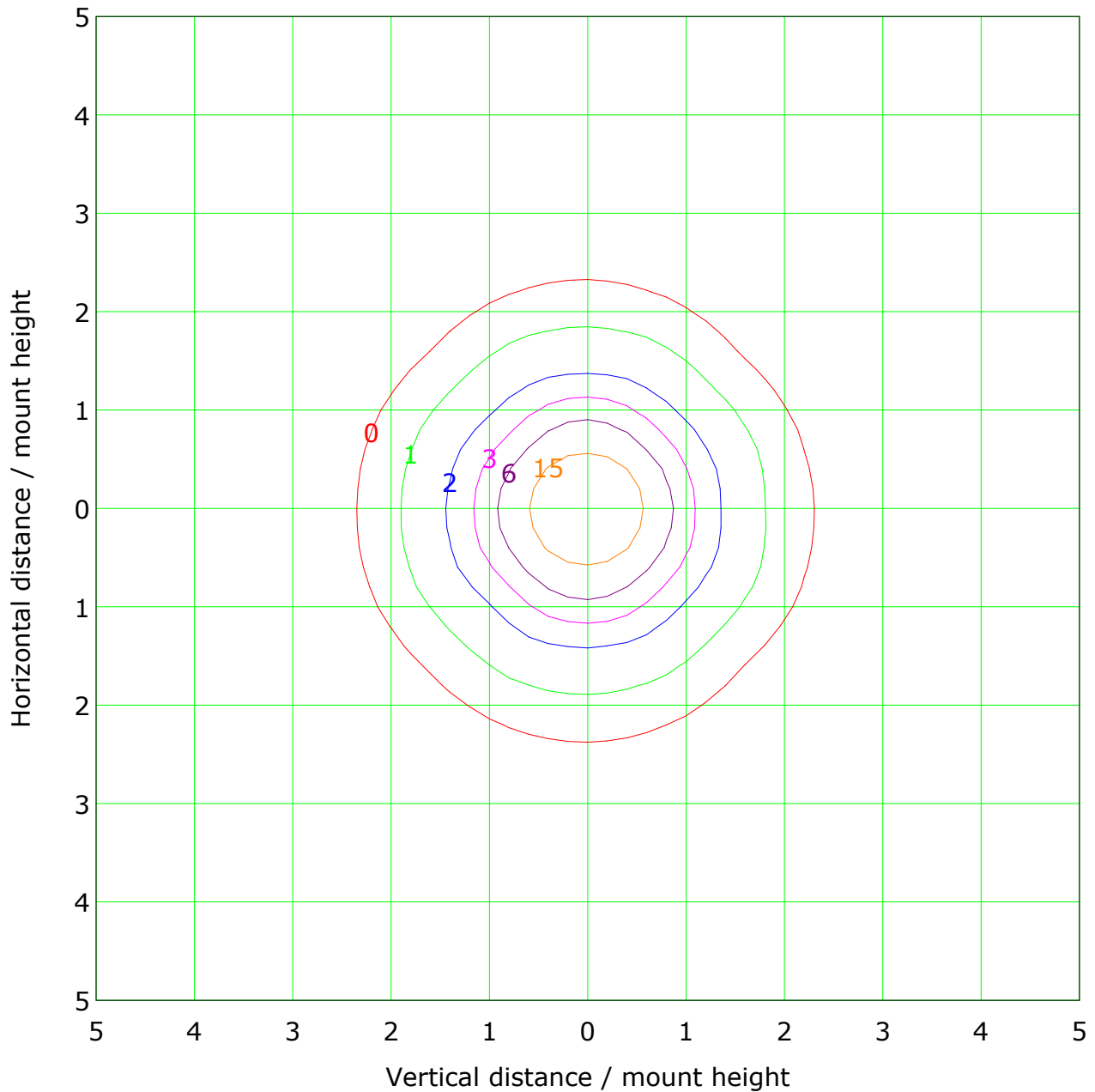
Spacing Criteria (0-180): 1.16  
 Spacing Criteria (90-270): 1.13  
 Spacing Criteria (Diagonal): 1.13



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%): 30.8 lx

( 1%): 0.3 lx	( 2%): 0.6 lx
( 5%): 1.5 lx	( 10%): 3.1 lx
( 20%): 6.2 lx	( 50%): 15.4 lx
(100%): 30.8 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

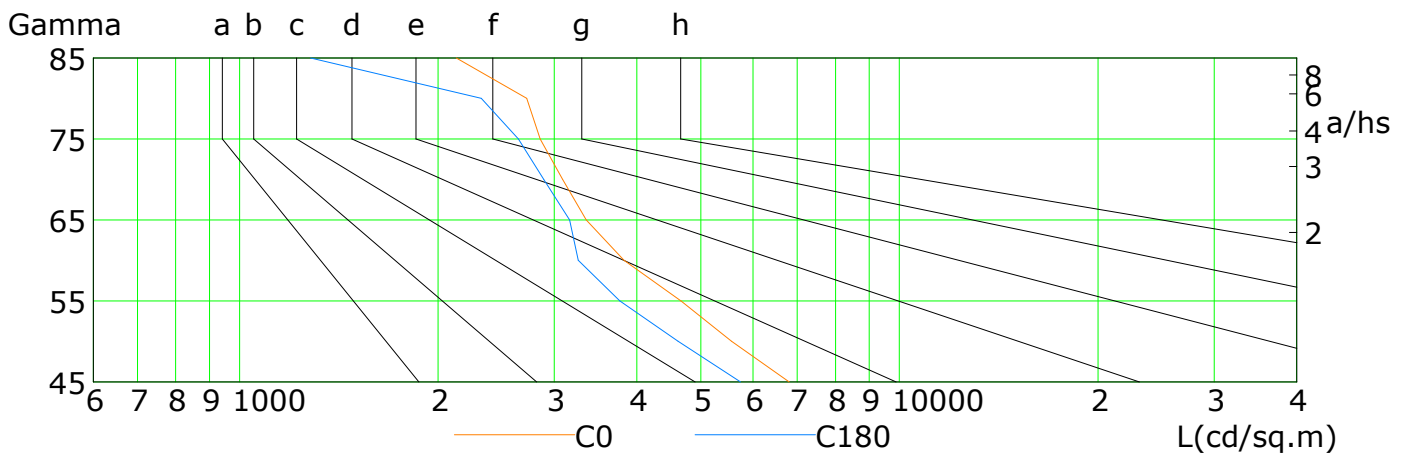
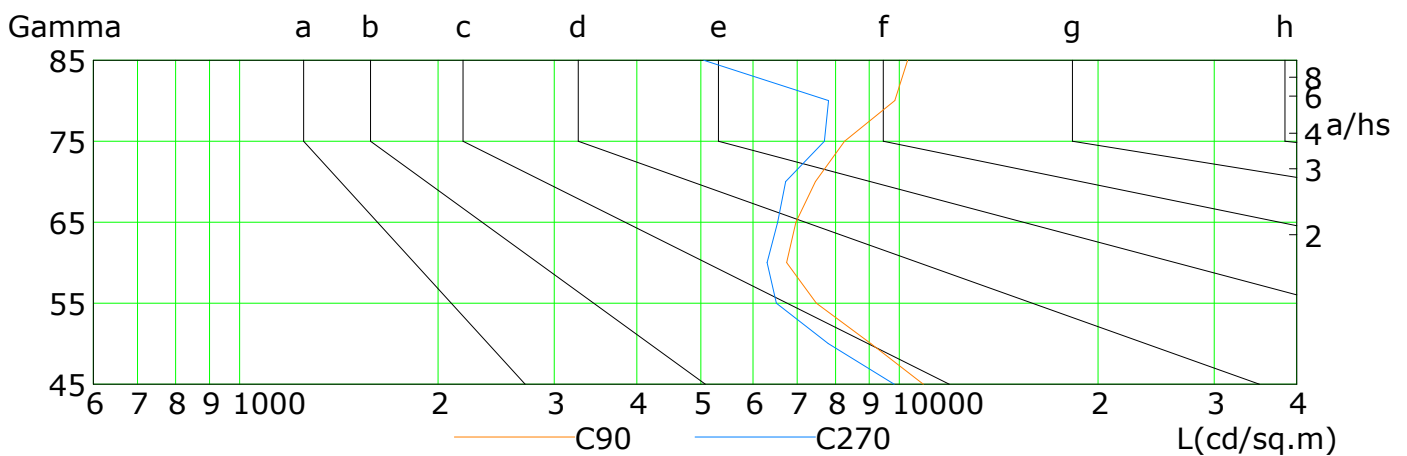
Humidity:

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	6809	5570	4667	3826	3352	3087	2854	2724	2129
C90	10875	9055	7486	6746	6971	7464	8259	9840	10293
C180	5742	4620	3769	3259	3164	2890	2647	2326	1282
C270	9816	7799	6507	6300	6542	6724	7701	7810	5051

C Plane (°):0.0-360.0: 22.5

Test Lab:

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Temperature:

Operator:

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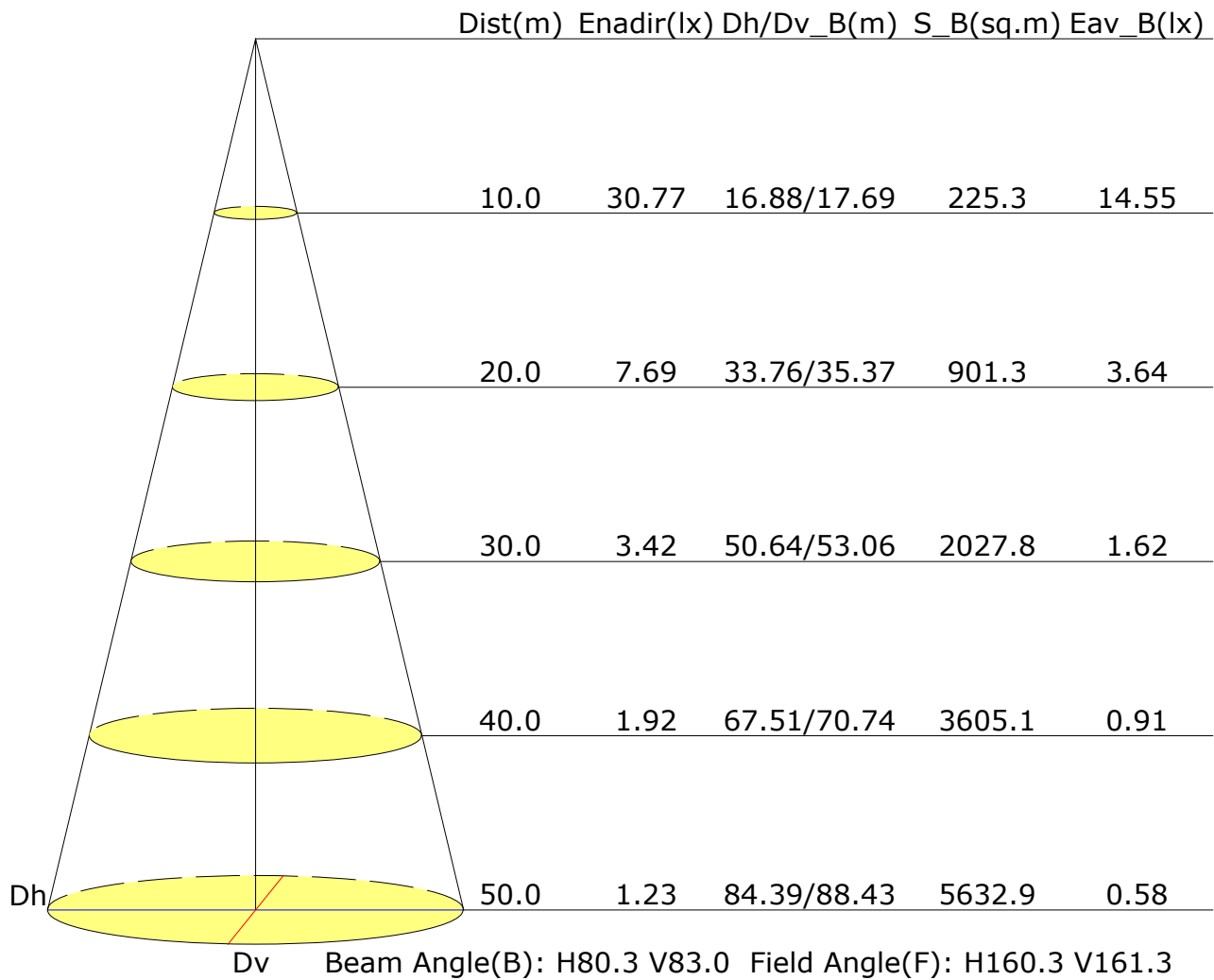
Test Device: LSG-1800B

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

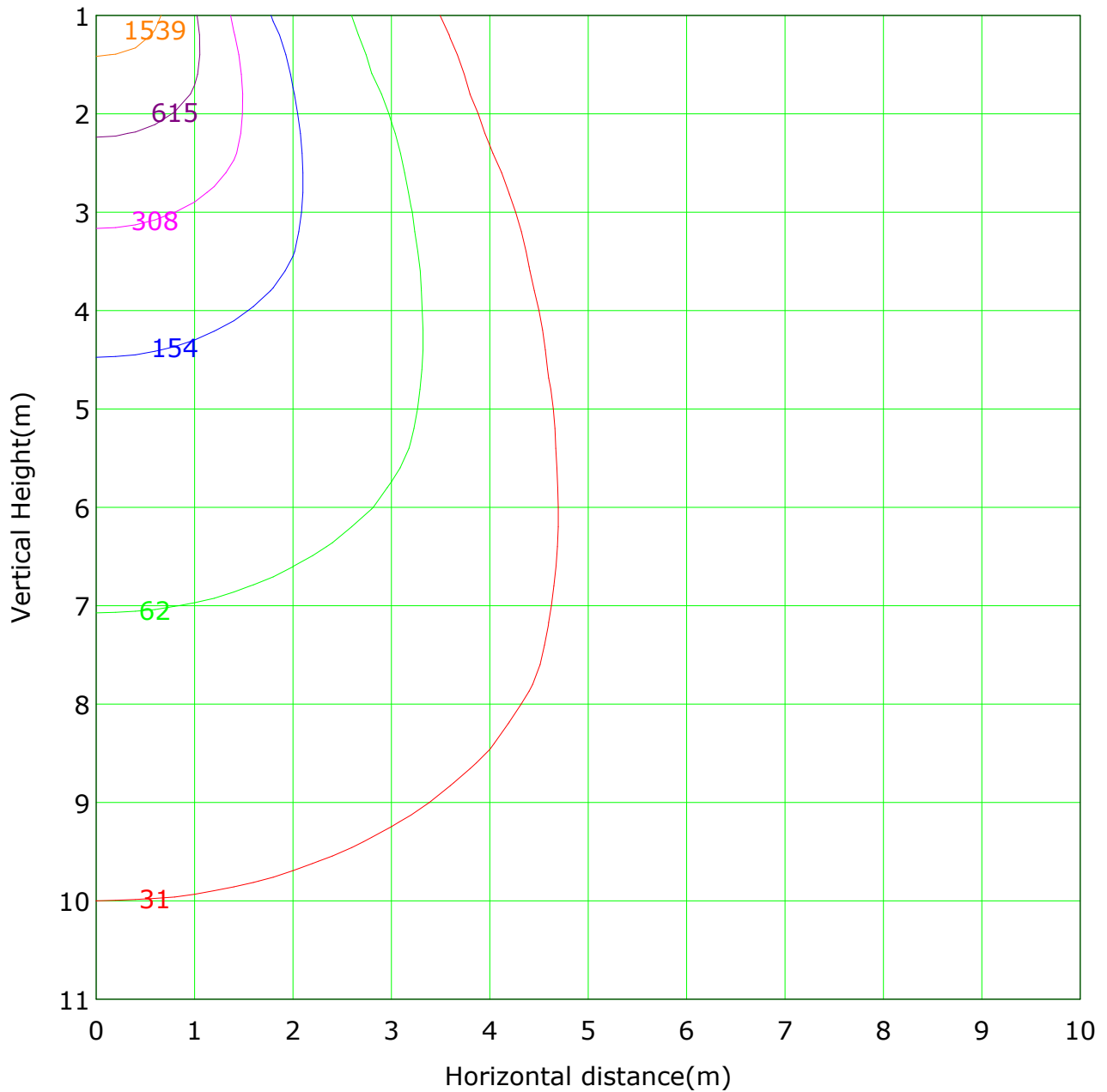
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 3077.4 lx  
— ( 1%): 30.8 lx                      — ( 2%): 61.5 lx  
— ( 5%): 153.9 lx                      — ( 10%): 307.7 lx  
— ( 20%): 615.5 lx                      — ( 50%): 1538.7 lx  
— (100%): 3077.4 lx

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

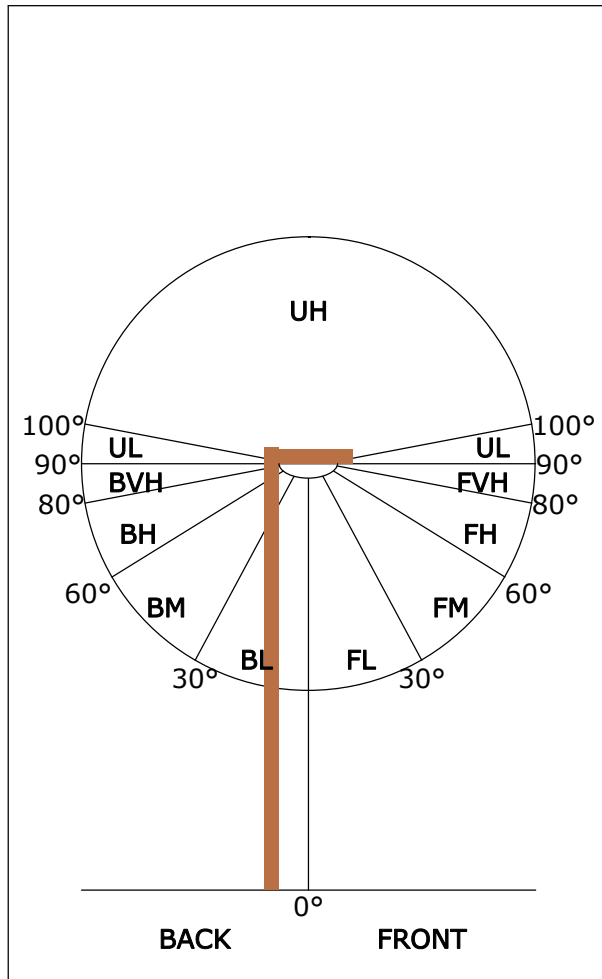
Gamma Plane (°):0.0-180.0:5.0

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	3194	50.8
FL ( 0°-30°)	1170	18.6
FM (30°-60°)	1466	23.3
FH (60°-80°)	464	7.4
FVH (80°-90°)	95	1.5
BACK LIGHT	3039	48.3
BL ( 0°-30°)	1162	18.5
BM (30°-60°)	1376	21.9
BH (60°-80°)	431	6.9
BVH (80°-90°)	69	1.1
UP LIGHT	56	0.9
UL (90°-100°)	12	0.2
UH (100°-180°)	43	0.7
TRAPPED LIGHT	NA	NA

<b>BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07</b>	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U2 G1

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