

Report No.: 1

Test Time: 14.11.2018 16:00

## Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 80 0,3A 32W 5000K F16048\_LINNEA-UP

Lamp Description: LED

Luminous Width (mm): 80

Voltage: 221.9 V

Power: 29.17 W

Luminous Length (mm): 1500

Luminous Height (mm): 75

Current: 0.134 A

Power Factor: 0.976

## Photometric Results

CIE Class: Direct

Measurement Flux: 3946.2 lm

Downward Ratio: 97%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 141.0, 113.4, 116.7, 117.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 89.4, 40.9, 51.2, 51.9

Luminaire Efficacy Rating (LER): 135.33

Max. Intensity: 2974.4 cd

S/MH(C0/C180): 1.18

Total Rated Lamp Lumens: 3946.2 lm

Efficiency: 100%

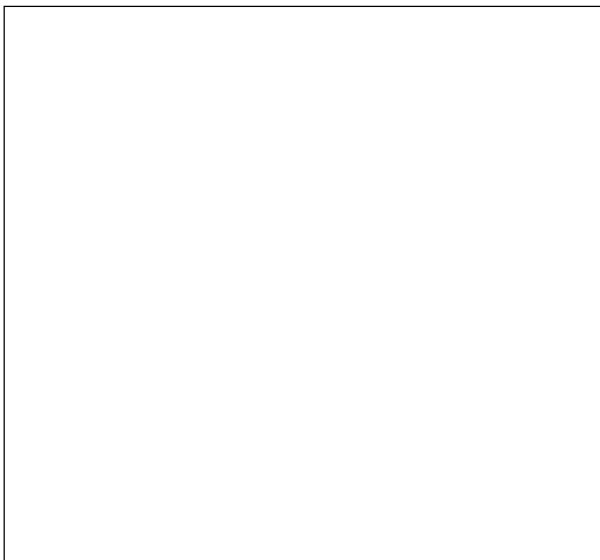
Upward Ratio: 3%

Central Intensity: 2842.3 cd

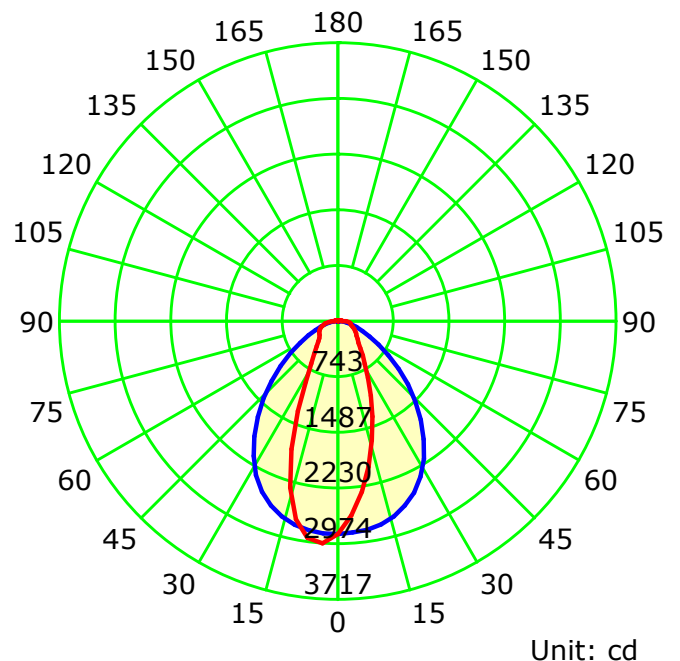
Pos of Max. Intensity: H270 V4

S/MH(C90/C270): 0.69

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:4.0

Test Device: LSG-1800B

Distance: 12.654 m

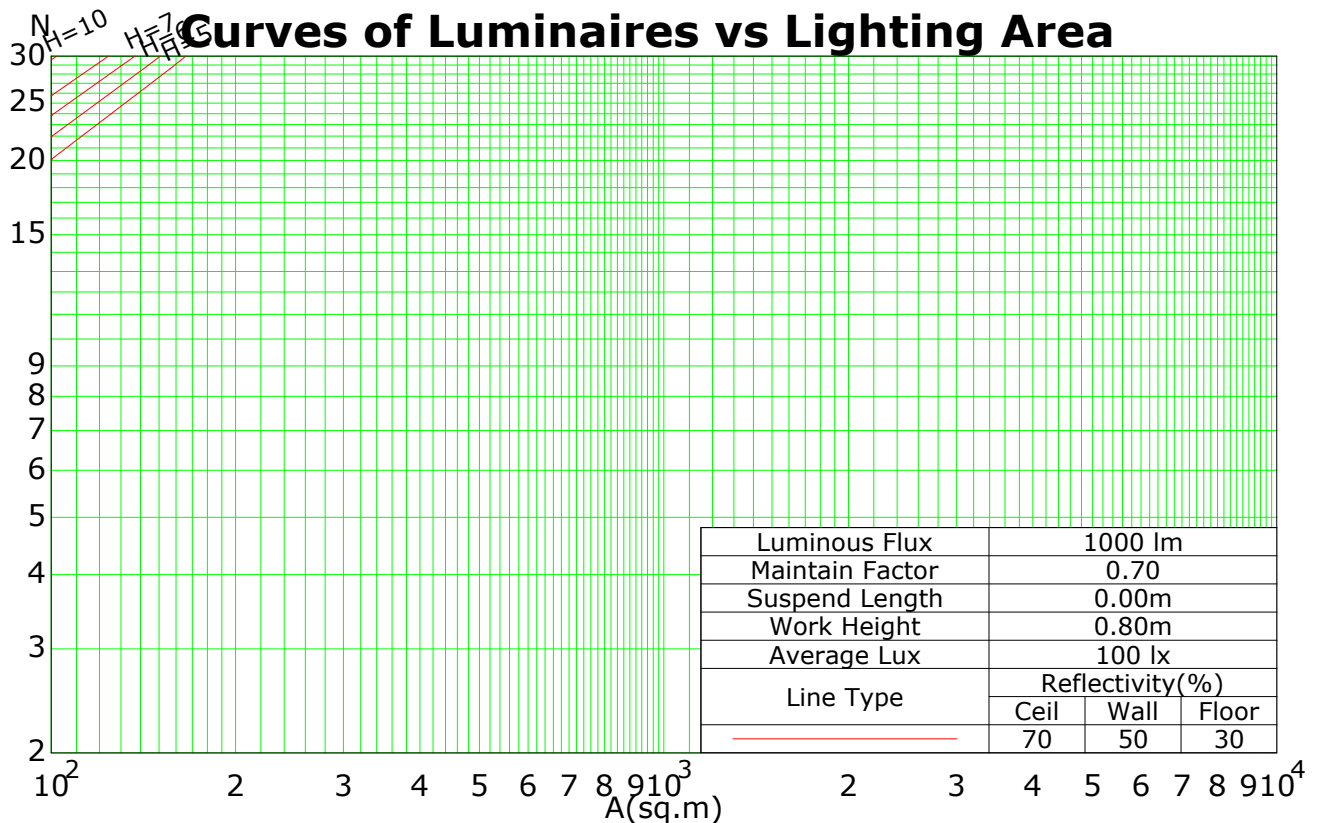
Humidity:

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	110	110	110	104	104	104	99	99	99	97
1	109	105	101	98	106	102	99	96	98	95	92	93	91	89	89	87	86	84
2	101	94	88	83	98	92	86	82	88	83	79	84	80	77	81	78	75	73
3	94	84	77	72	91	83	76	71	79	74	69	76	72	68	73	70	66	64
4	87	77	69	63	85	75	68	63	72	66	61	70	65	60	67	63	59	57
5	81	70	62	56	79	69	61	56	66	60	55	64	59	54	62	57	53	51
6	76	64	56	51	74	63	56	50	61	55	50	59	54	49	58	52	49	47
7	71	59	52	46	69	58	51	46	57	50	45	55	49	45	54	48	44	43
8	67	55	47	42	65	54	47	42	53	46	42	51	46	41	50	45	41	39
9	63	51	44	39	62	51	44	39	49	43	39	48	42	38	47	42	38	36
10	60	48	41	36	58	47	41	36	46	40	36	45	39	35	44	39	35	34

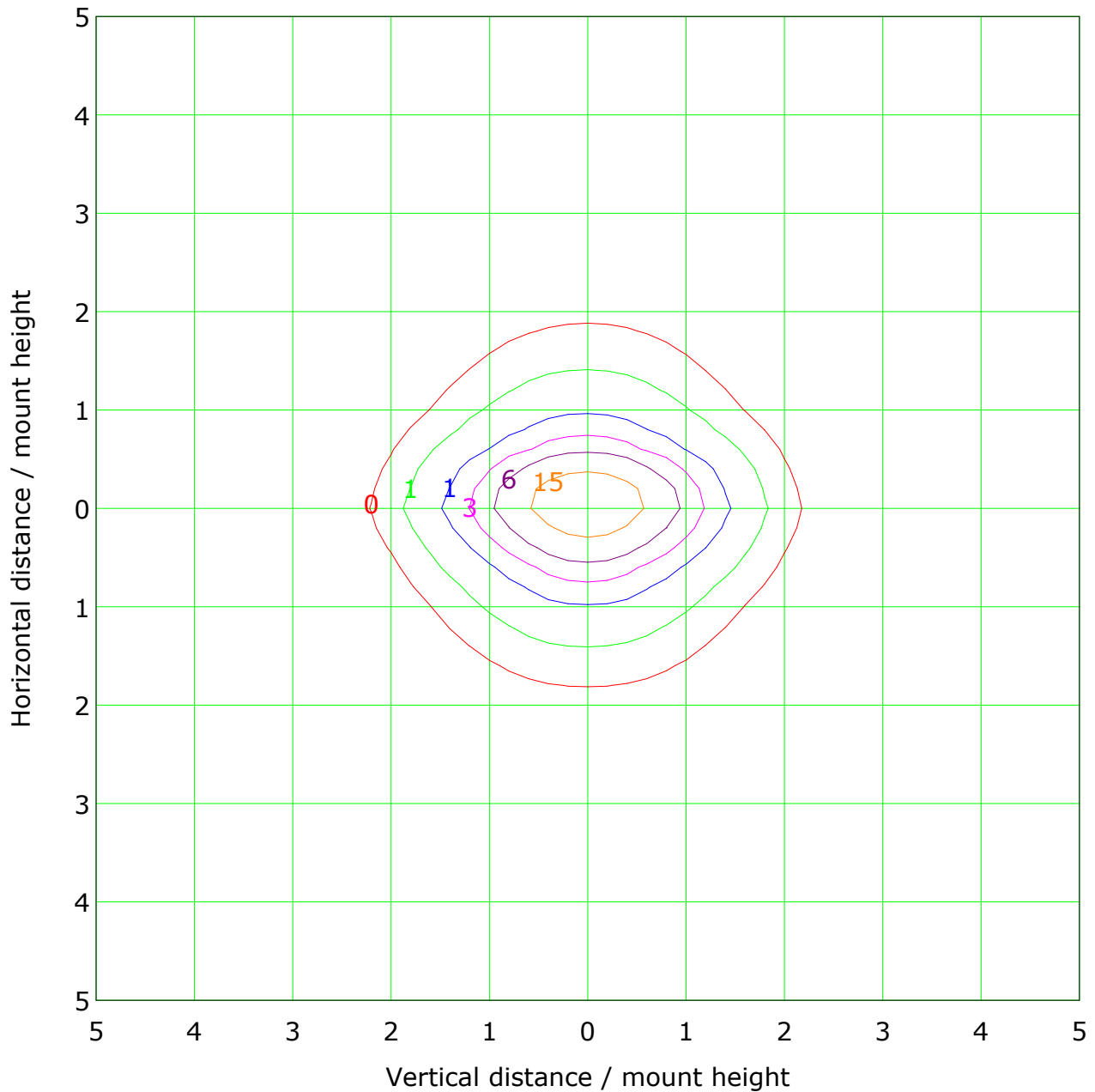
Spacing Criteria (0-180): 1.18  
 Spacing Criteria (90-270): 0.69  
 Spacing Criteria (Diagonal): 0.85



C Plane (°):0.0-360.0: 15.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:4.0  
 Test Device: LSG-1800B  
 Distance: 12.654 m  
 Humidity:  
 Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 29.5 lx

( 1%): 0.3 lx	( 2%): 0.6 lx
( 5%): 1.5 lx	( 10%): 3.0 lx
( 20%): 5.9 lx	( 50%): 14.8 lx
(100%): 29.5 lx	

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:4.0

Test Device: LSG-1800B

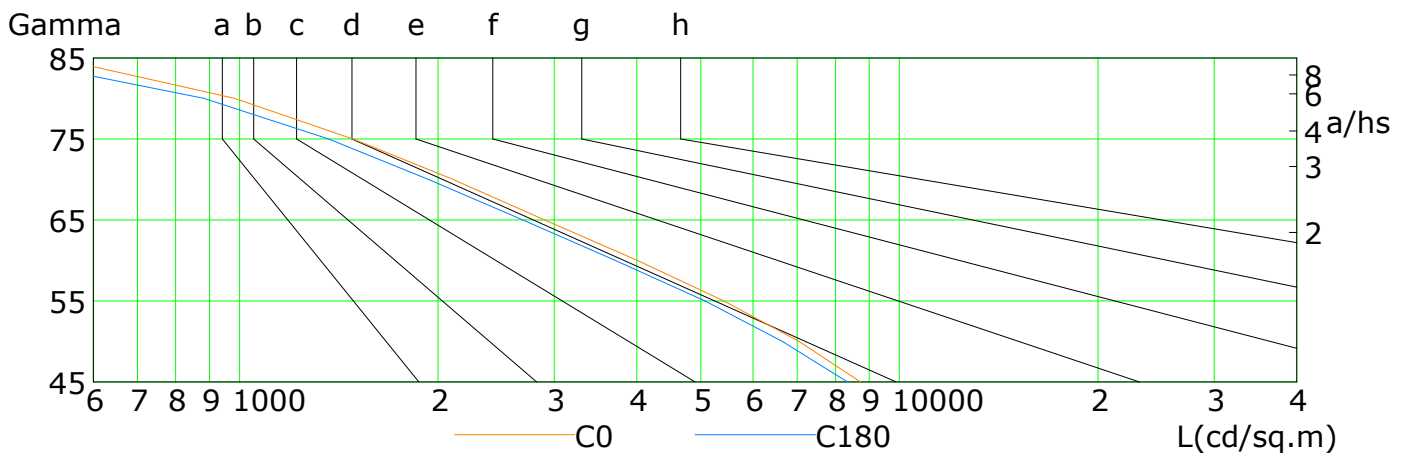
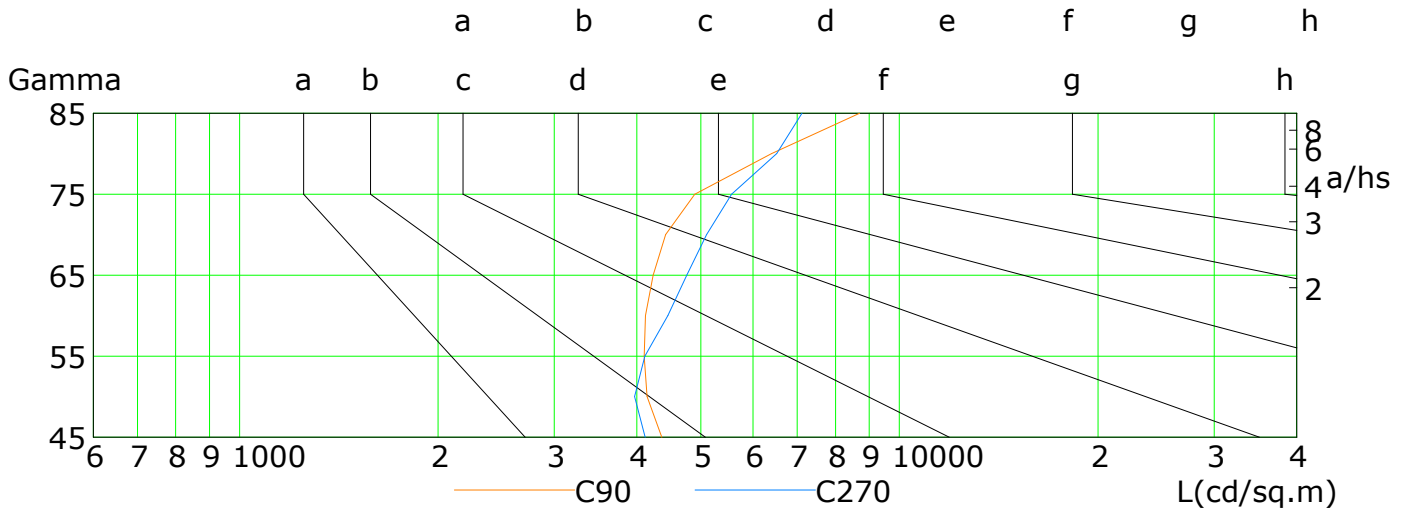
Distance: 12.654 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	8731	7039	5421	4003	2899	2104	1486	982	525
C90	4365	4146	4103	4123	4233	4425	4894	6398	8699
C180	8341	6640	5073	3709	2688	1932	1364	882	439
C270	4117	3967	4115	4456	4762	5102	5567	6519	7120

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:4.0

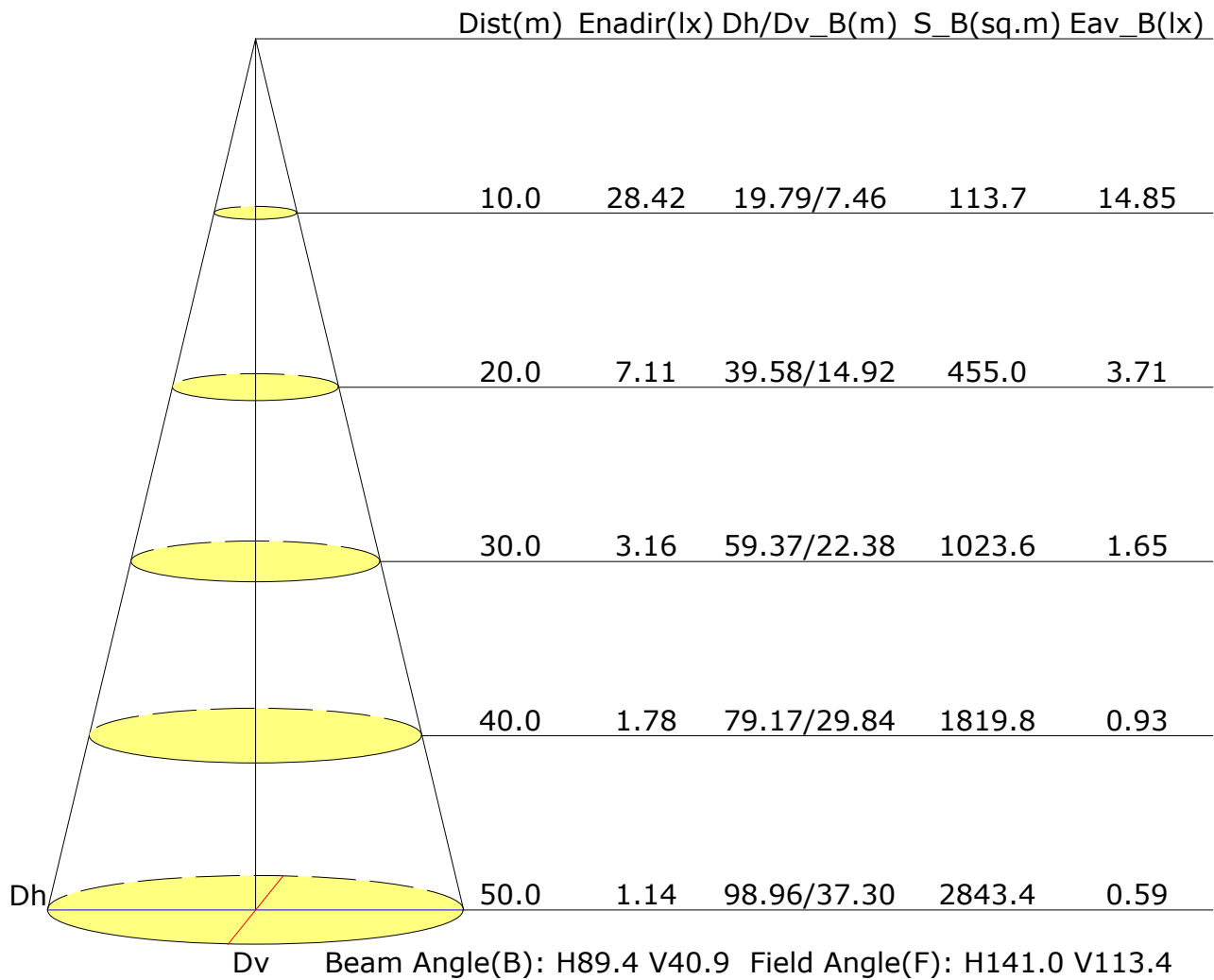
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## Illuminance at a Distance



C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:4.0

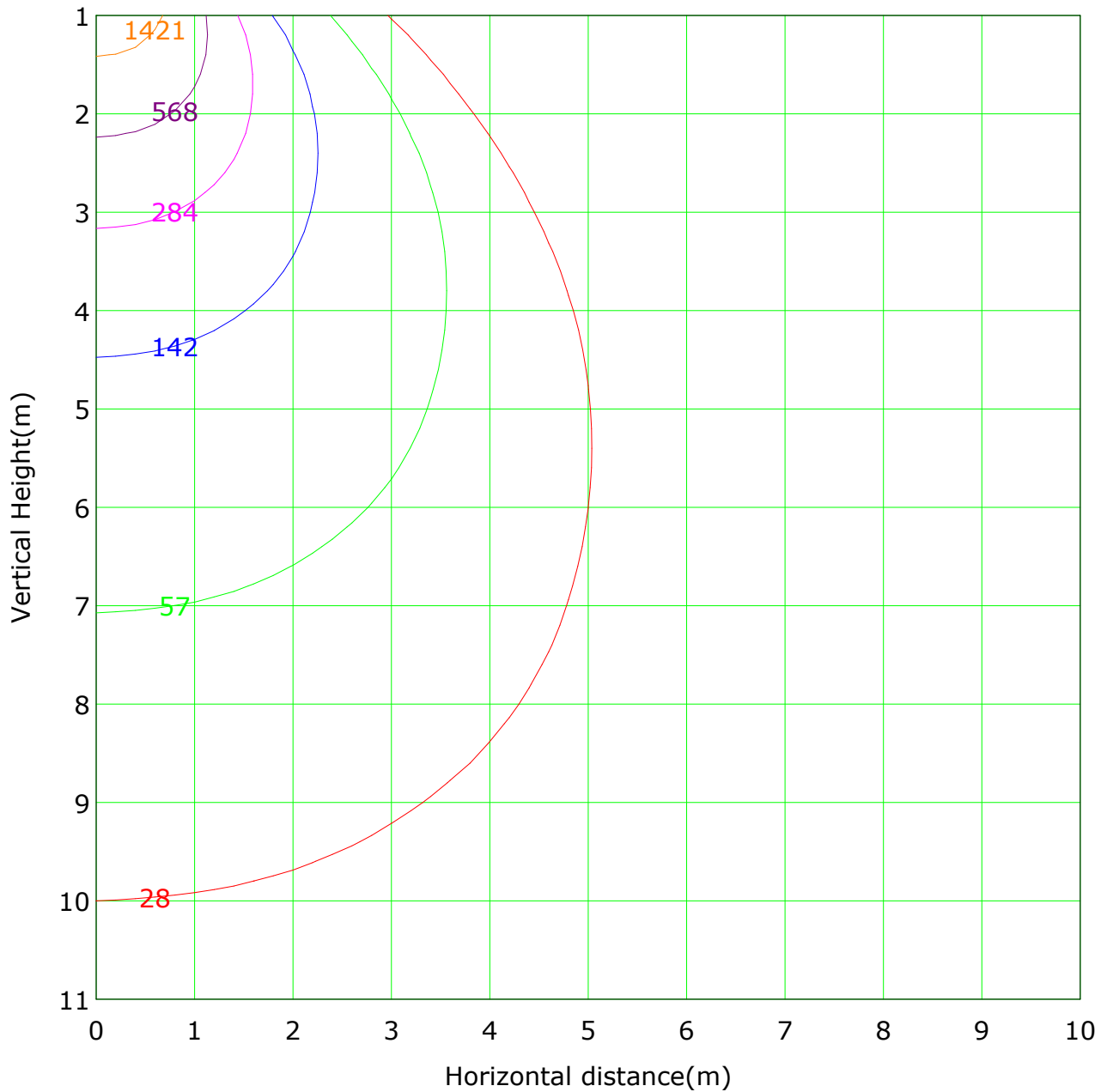
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## Vertical IsoLux Plot



Lowest(m): 1.0m   Highest(m): 11.0m   Max Lux: 2842.3 lx

( 1%): 28.4 lx	( 2%): 56.8 lx
( 5%): 142.1 lx	( 10%): 284.2 lx
( 20%): 568.5 lx	( 50%): 1421.2 lx
(100%): 2842.3 lx	

C Plane (°): 0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

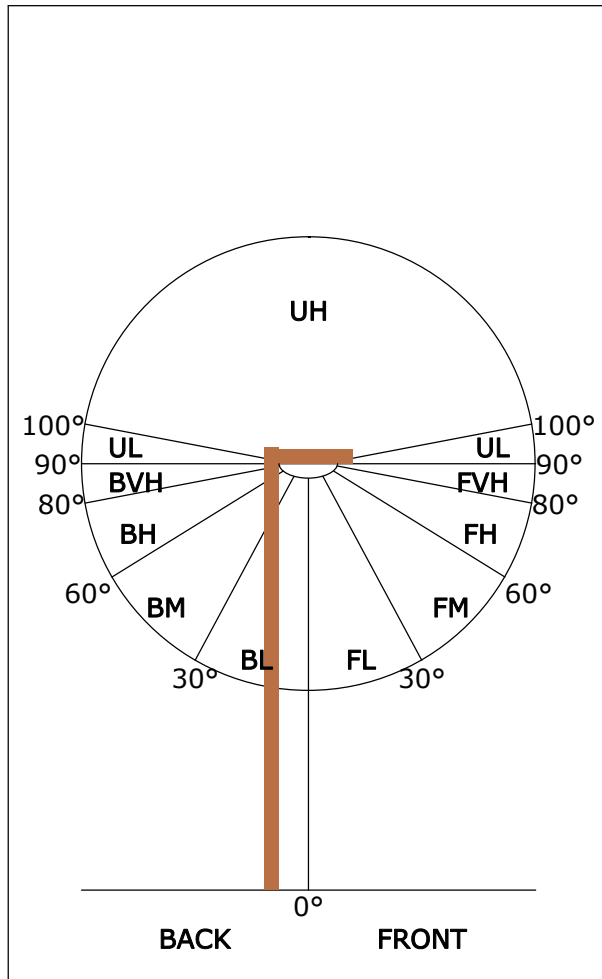
Gamma Plane (°): 0.0-180.0: 4.0

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	1865	47.3
FL ( 0°-30°)	836	21.2
FM (30°-60°)	735	18.6
FH (60°-80°)	231	5.9
FVH (80°-90°)	63	1.6
BACK LIGHT	2141	54.3
BL ( 0°-30°)	1027	26.0
BM (30°-60°)	813	20.6
BH (60°-80°)	246	6.2
BVH (80°-90°)	56	1.4
UP LIGHT	111	2.8
UL (90°-100°)	38	1.0
UH (100°-180°)	74	1.9
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
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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