

Report No.:

Test Time: 23.11.2021 09:40

## Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Category: FL 30 75W 4000K OPALLuminous Length (mm): 1500

Luminous Width (mm): 91

Luminous Height (mm): 80

Voltage: 221.2 V

Current: 0.363 A

Power: 78.79 W

Power Factor: 0.980

## Photometric Results

CIE Class: Direct

Measurement Flux: 7468 lm

Downward Ratio: 94%

Total Rated Lamp Lumens: 7468.0 lm

Efficiency: 100%

Upward Ratio: 6%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 167.9, 162.5, 164.8, 162.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.8, 108.4, 110.6, 110.1

Luminaire Efficacy Rating (LER): 94.83

Central Intensity: 2140.52 cd

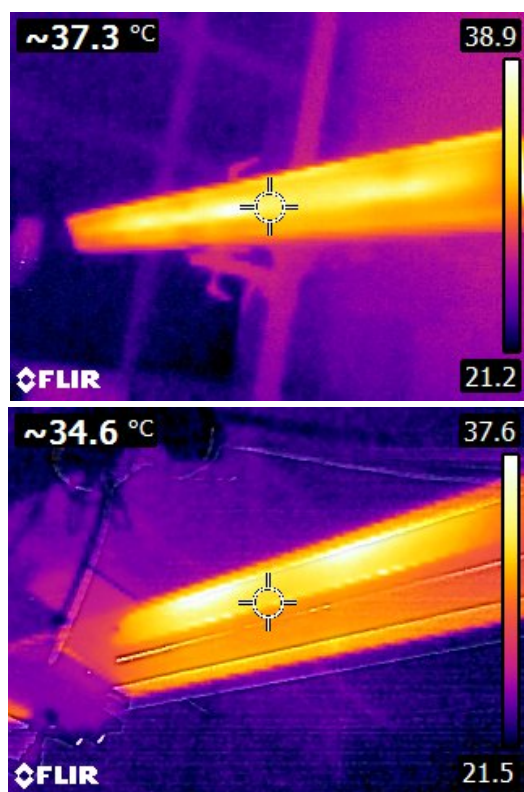
Max. Intensity: 2627.99 cd

Pos of Max. Intensity: H90 V30

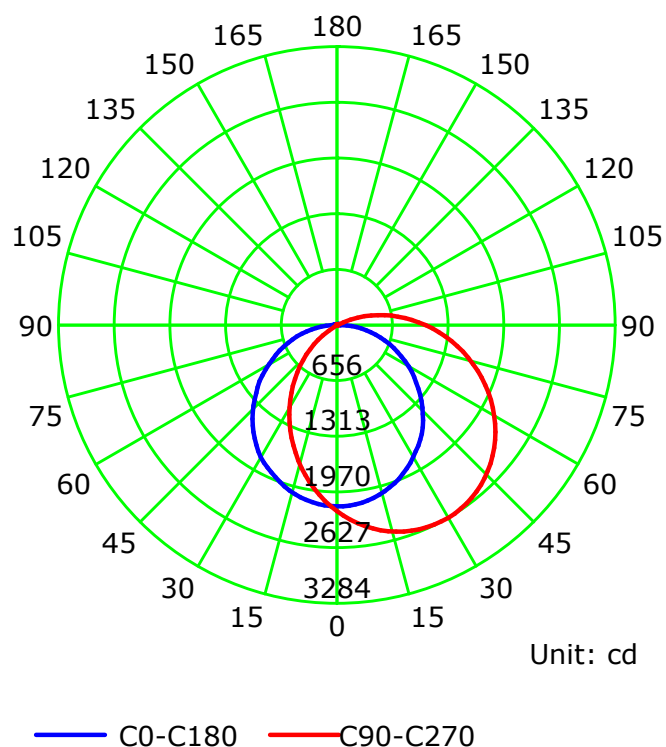
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.27

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab: FAROS LED Lab

Test Type: TYPE C

Temperature:

Operator: Lab

Gamma Plane (°):0.0-180.0:2.0

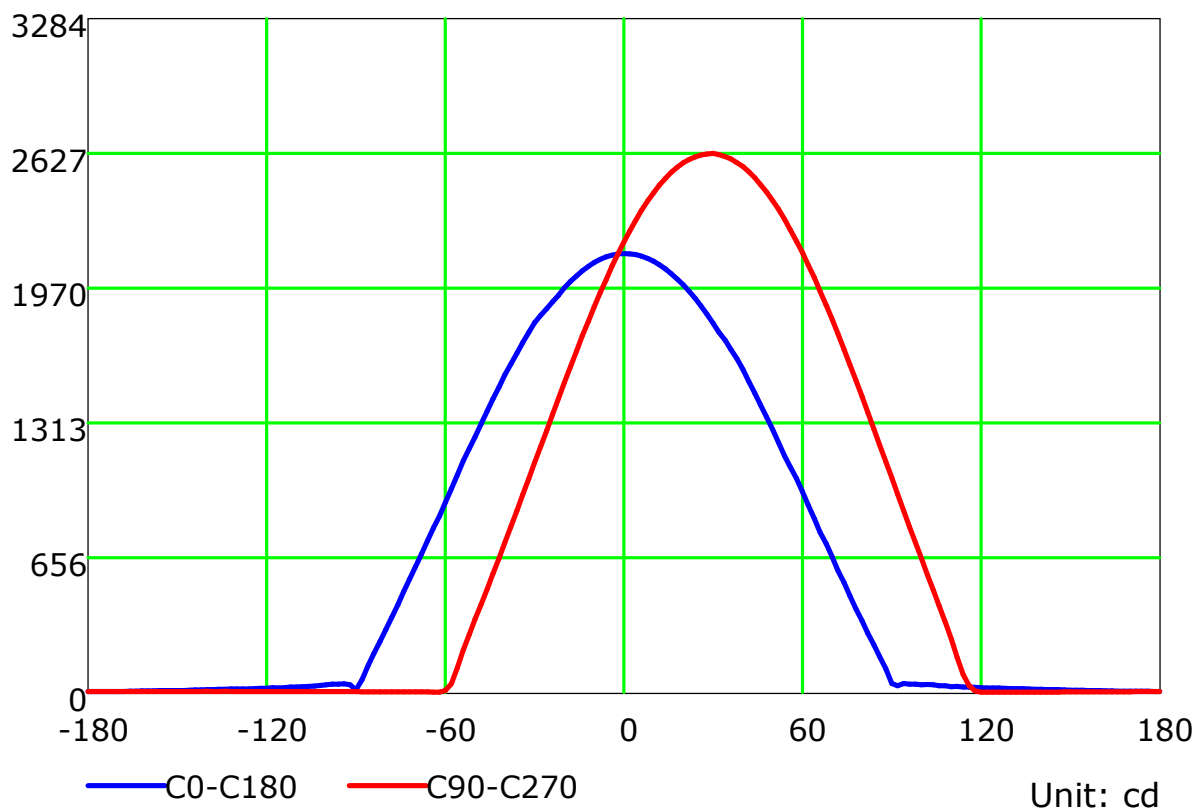
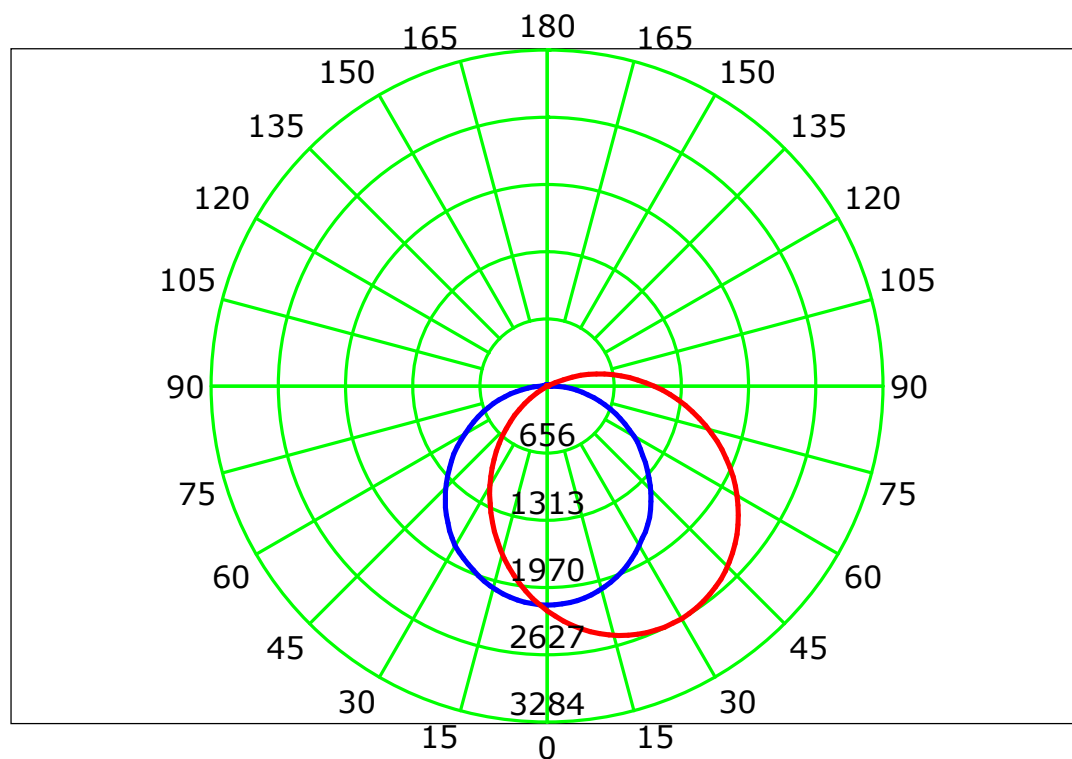
Test Device: LSG-1800B

Distance: 12.735 m

Humidity:

Inspector:

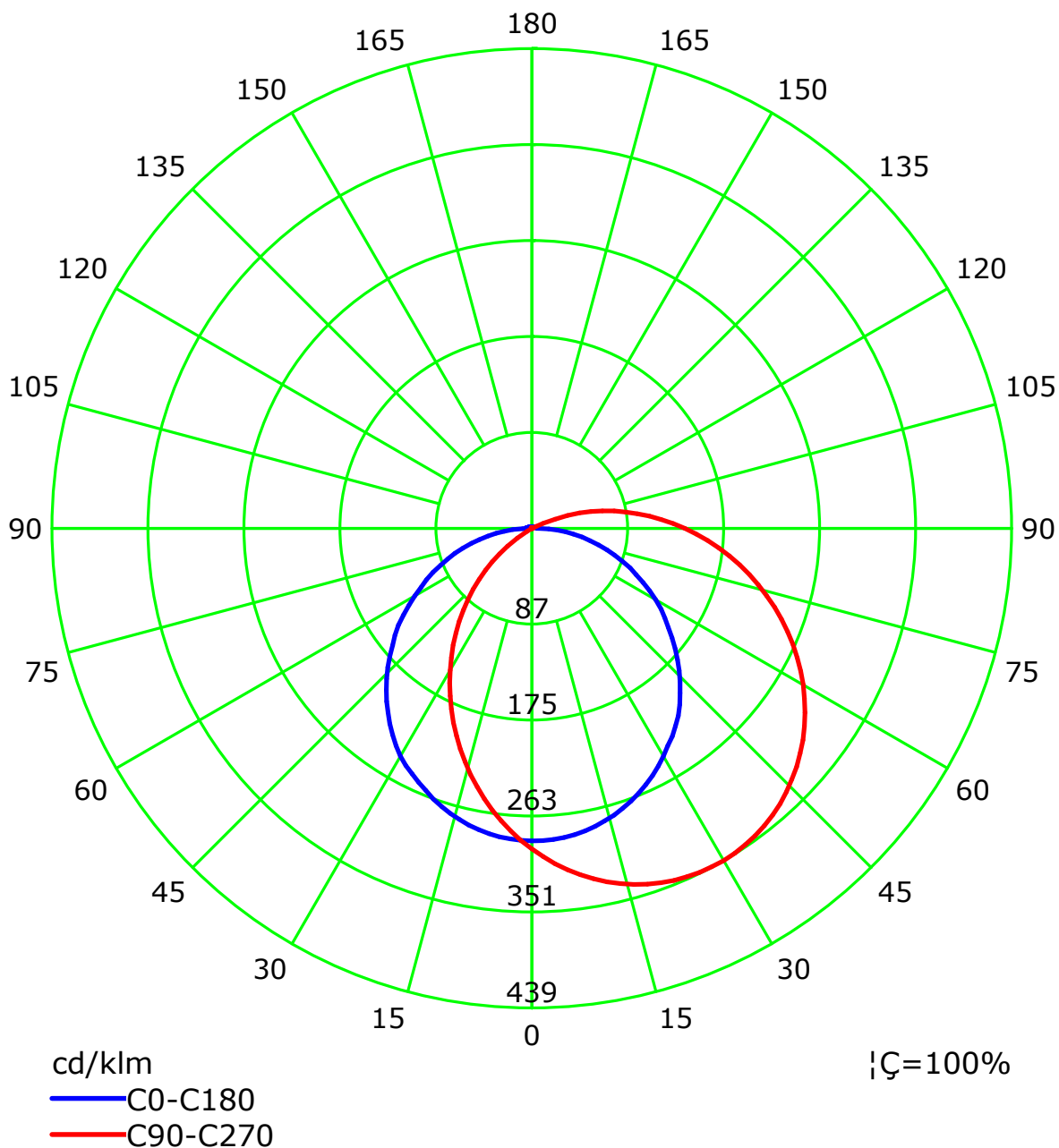
## Luminous Intensity Distribution Curve



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

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Distance: 12.735 m  
Humidity:  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



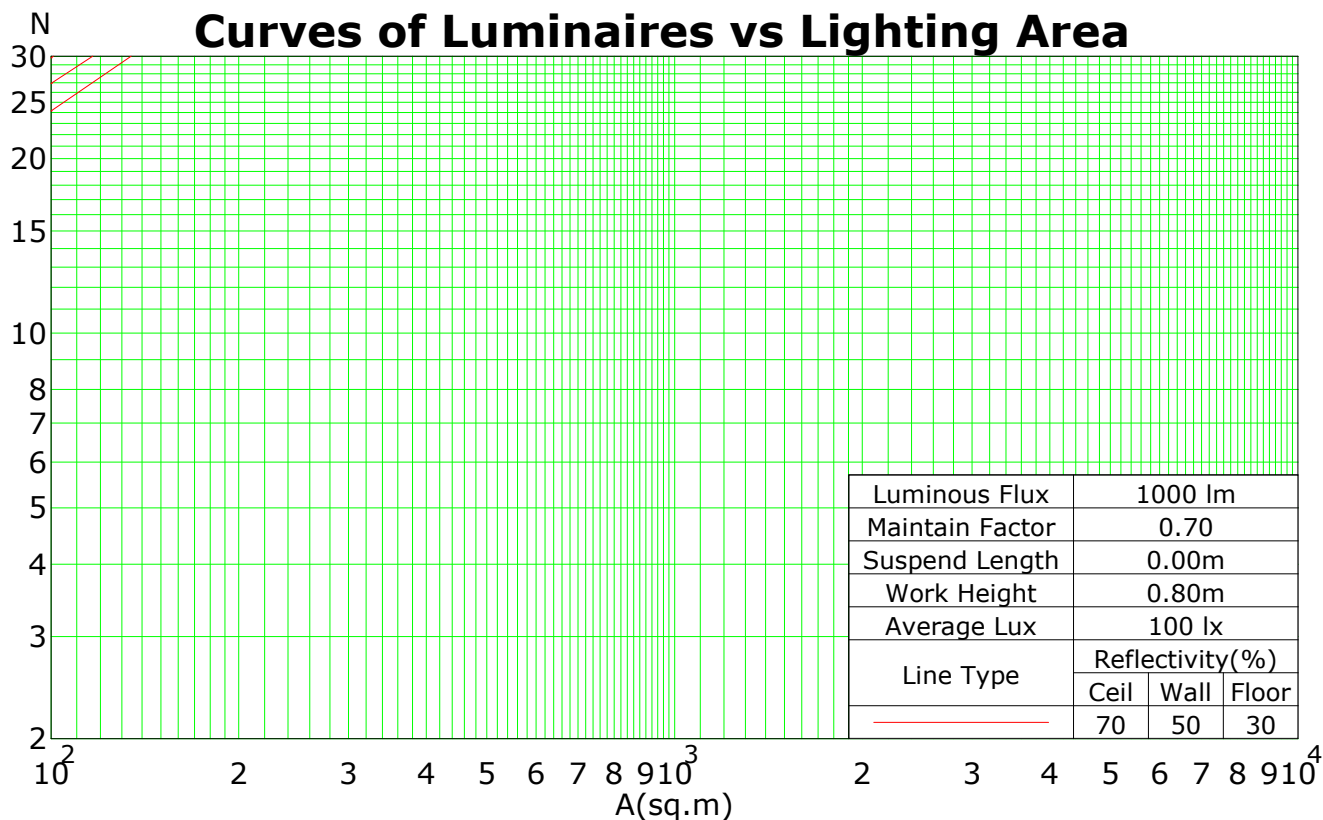
## Coefficients Of Utilization - Zonal Cavity Method

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	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	105	99	94	90	102	96	92	88	91	87	84	86	83	80	81	79	76	74
2	95	86	78	72	91	83	76	70	78	73	68	74	69	65	70	66	63	60
3	86	75	66	59	83	73	64	58	69	62	56	65	59	54	62	57	52	50
4	79	66	57	49	76	64	55	49	61	53	47	58	51	46	55	49	45	42
5	72	59	49	42	70	57	48	42	54	47	41	52	45	40	49	43	39	36
6	67	53	43	37	64	51	43	36	49	41	35	47	40	35	45	39	34	32
7	62	48	39	32	60	47	38	32	44	37	31	42	36	31	41	35	30	28
8	57	43	35	29	55	43	34	28	41	33	28	39	32	27	37	31	27	25
9	54	40	31	26	52	39	31	26	37	30	25	36	29	25	34	29	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.27

Spacing Criteria (Diagonal): 1.40



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Temperature:

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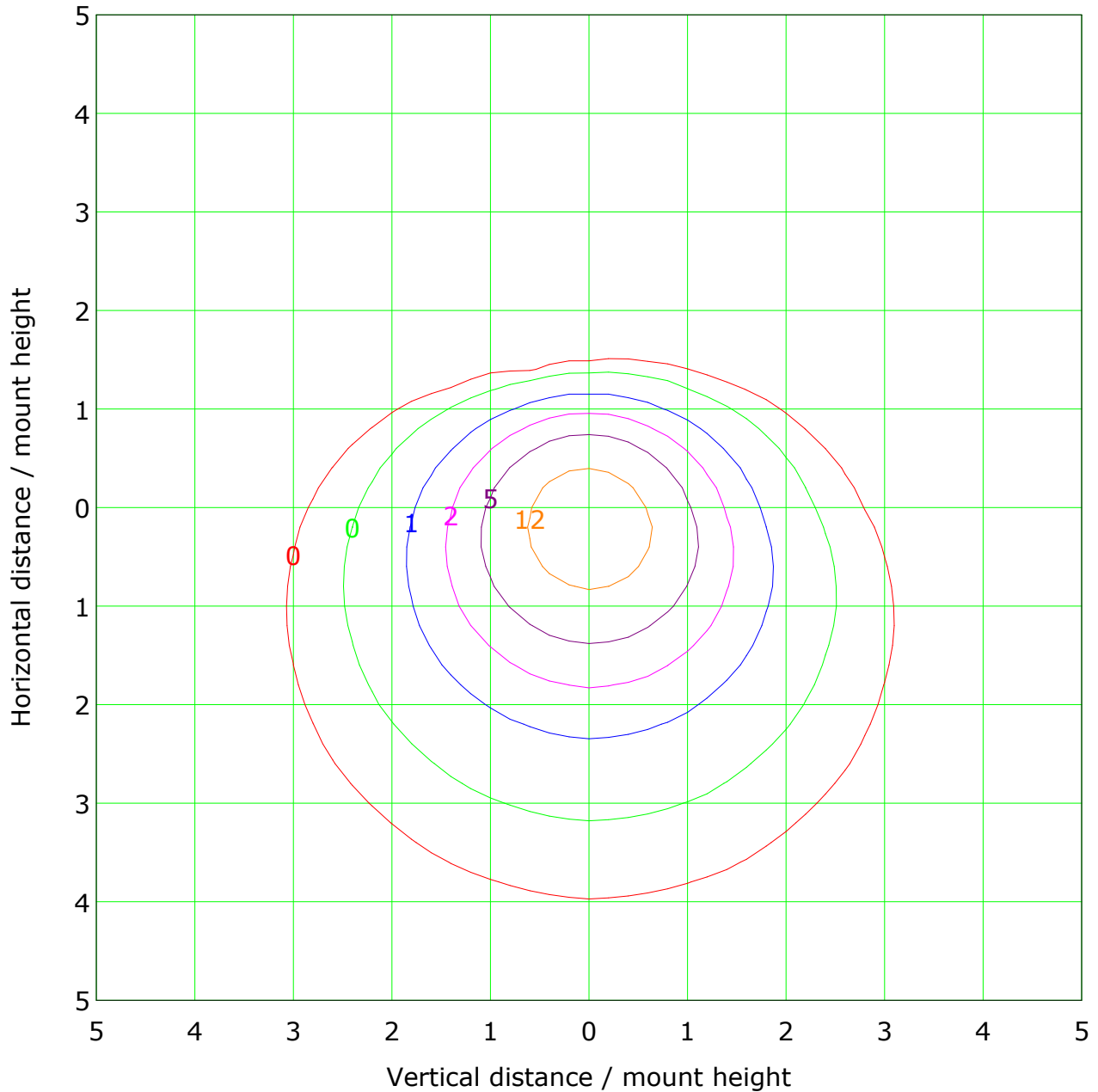
Test Device: LSG-1800B

Distance: 12.735 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 23.3 lx

— ( 1%): 0.2 lx	— ( 2%): 0.5 lx
— ( 5%): 1.2 lx	— (10%): 2.3 lx
— (20%): 4.7 lx	— (50%): 11.7 lx
— (100%): 23.3 lx	

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Test Type: TYPE C

Temperature:

Operator: Lab

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Test Device: LSG-1800B

Distance: 12.735 m

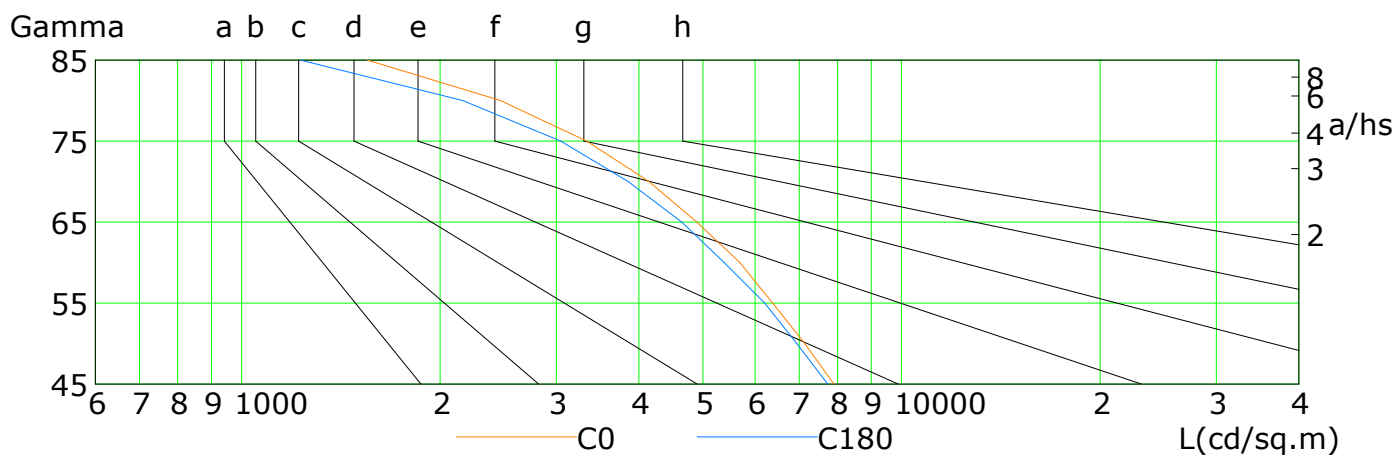
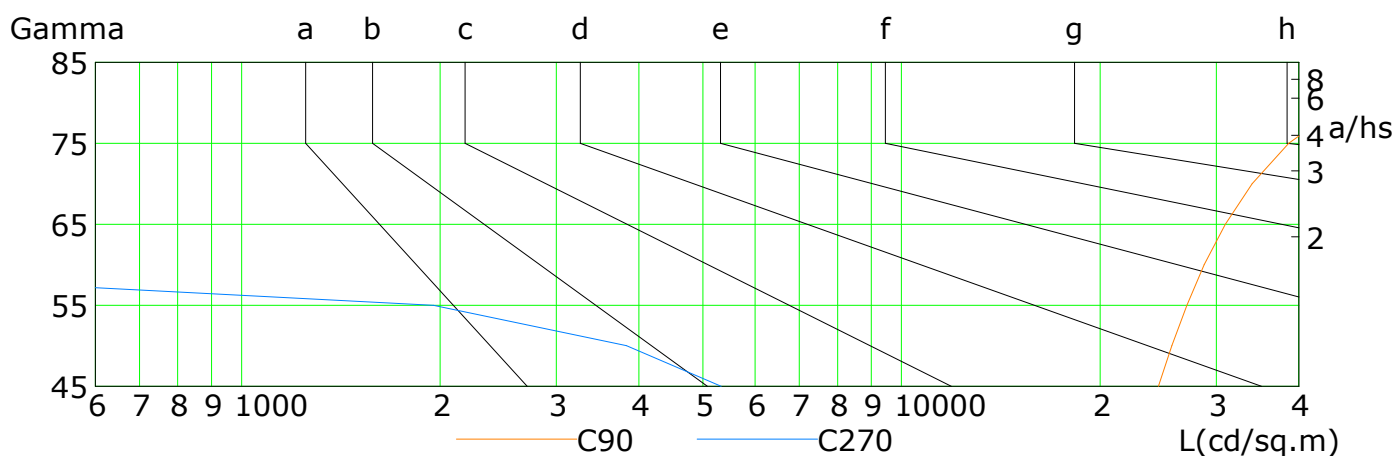
Humidity:

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	7894	7133	6384	5688	4897	4140	3334	2467	1552
C90	24517	25695	27084	28771	30951	33982	38609	46794	65077
C180	7731	6938	6204	5382	4645	3852	3047	2163	1228
C270	5328	3831	1953	130	48	64	87	128	225

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Test Type: TYPE C

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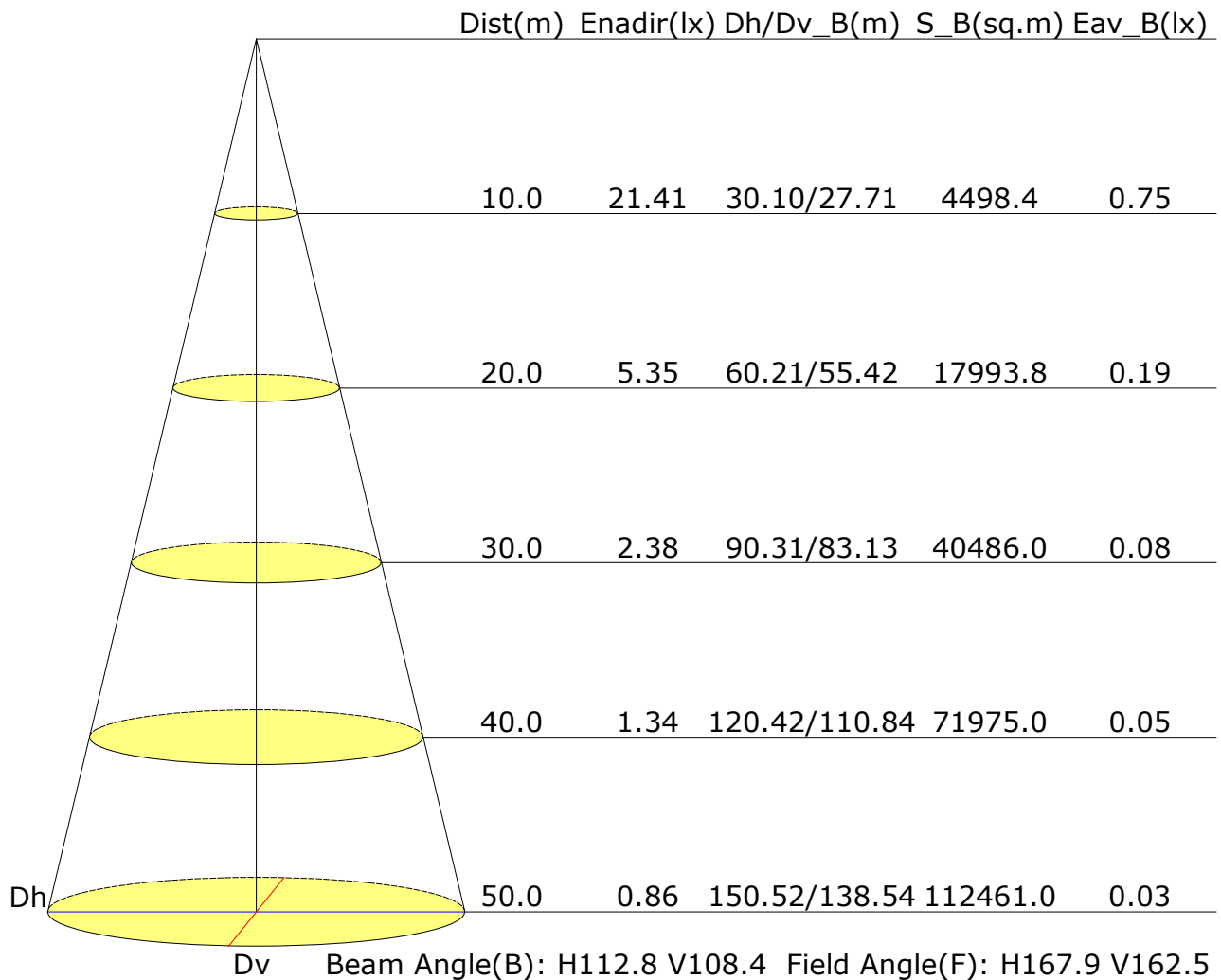
Test Device: LSG-1800B

Distance: 12.735 m

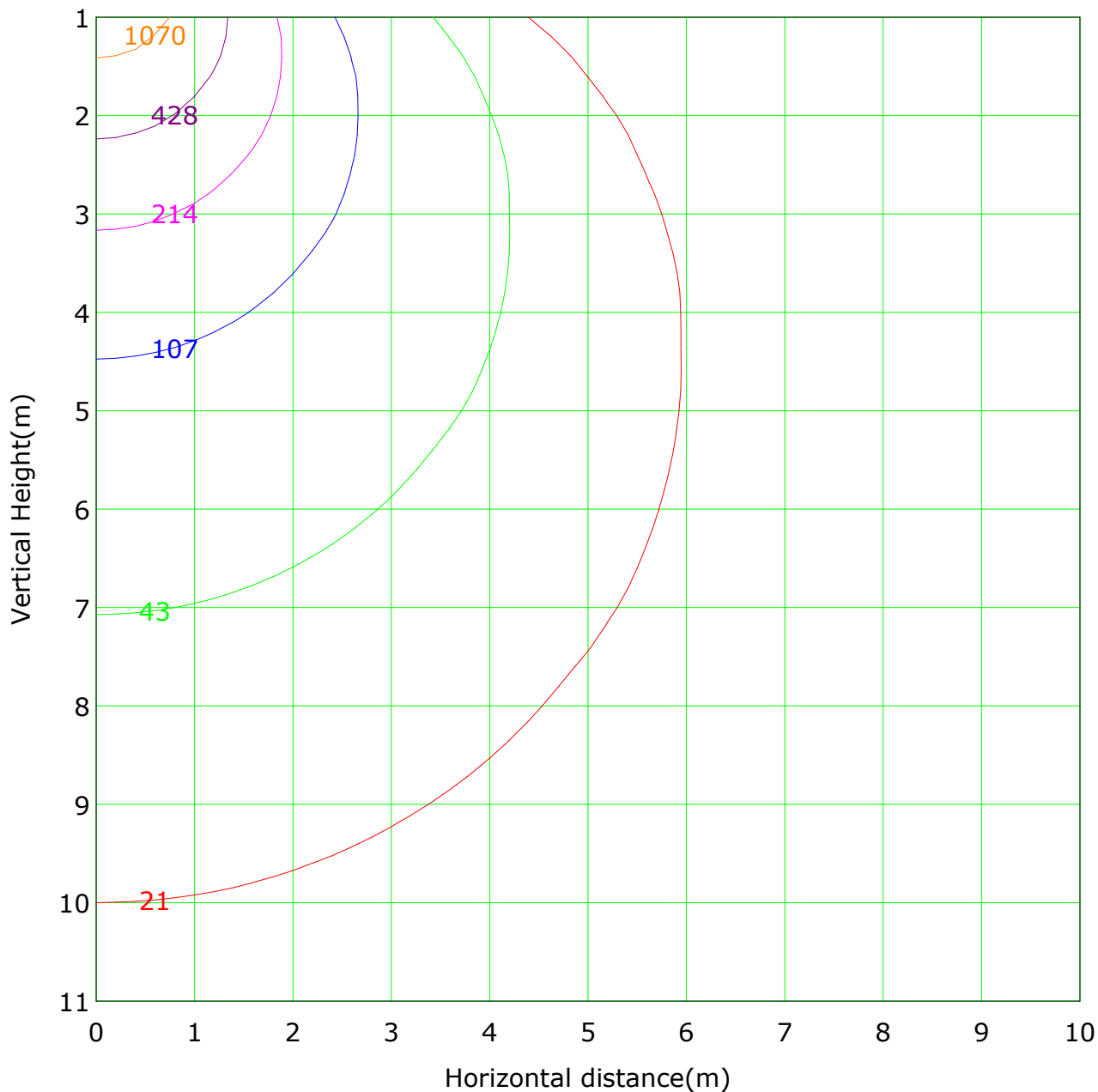
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2140.5 lx

( 1%): 21.4 lx

( 2%): 42.8 lx

( 5%): 107.0 lx

( 10%): 214.1 lx

( 20%): 428.1 lx

( 50%): 1070.3 lx

(100%): 2140.5 lx

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Test Type: TYPE C

Temperature:

Operator: Lab

Gamma Plane (°): 0.0-180.0: 2.0

Test Device: LSG-1800B

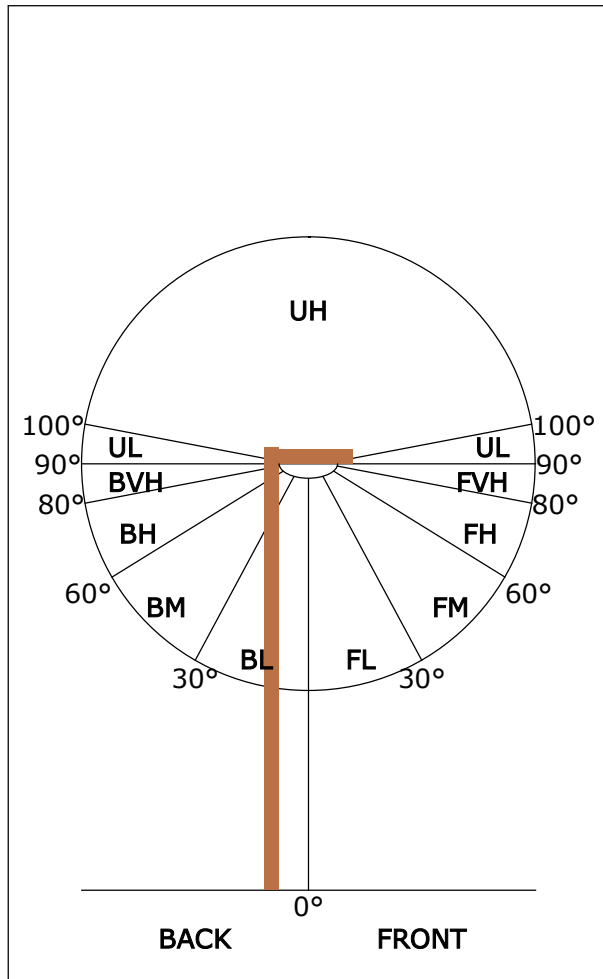
Distance: 12.735 m

Humidity:

Inspector:



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



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	5196	69.6
FL ( 0°-30°)	985	13.2
FM (30°-60°)	2348	31.4
FH (60°-80°)	1401	18.8
FVH (80°-90°)	462	6.2
BACK LIGHT	1809	24.2
BL ( 0°-30°)	706	9.5
BM (30°-60°)	929	12.4
BH (60°-80°)	157	2.1
BVH (80°-90°)	18	0.2
UP LIGHT	462	6.2
UL (90°-100°)	285	3.8
UH (100°-180°)	178	2.4
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U5 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U5 G3

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