

Report No.: 1

Test Time: 11.05.2018 11:32

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 180 40LED 0,3A 38W 5000K

Lamp Description: LED

Luminous Width (mm): 180

Voltage: 231.9 V

Power: 37.11 W

Luminous Length (mm): 1200

Luminous Height (mm): 35

Current: 0.163 A

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Measurement Flux: 4979.1 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.3, 162.6, 154.8, 154.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.8, 79.2, 77.8, 77.3

Luminaire Efficacy Rating (LER): 134.22

Max. Intensity: 2474.02 cd

S/MH(C0/C180): 1.15

Total Rated Lamp Lumens: 4979.1 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 2467.66 cd

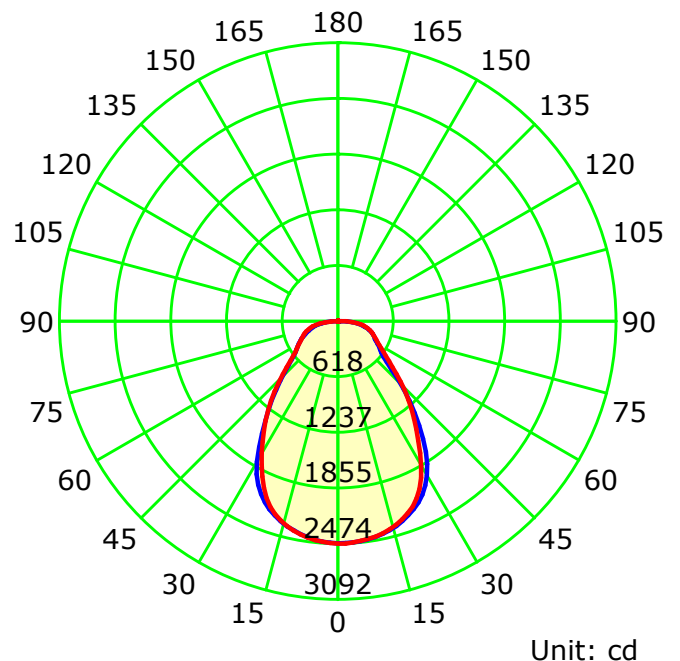
Pos of Max. Intensity: H157.5 V0

S/MH(C90/C270): 1.10

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 (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

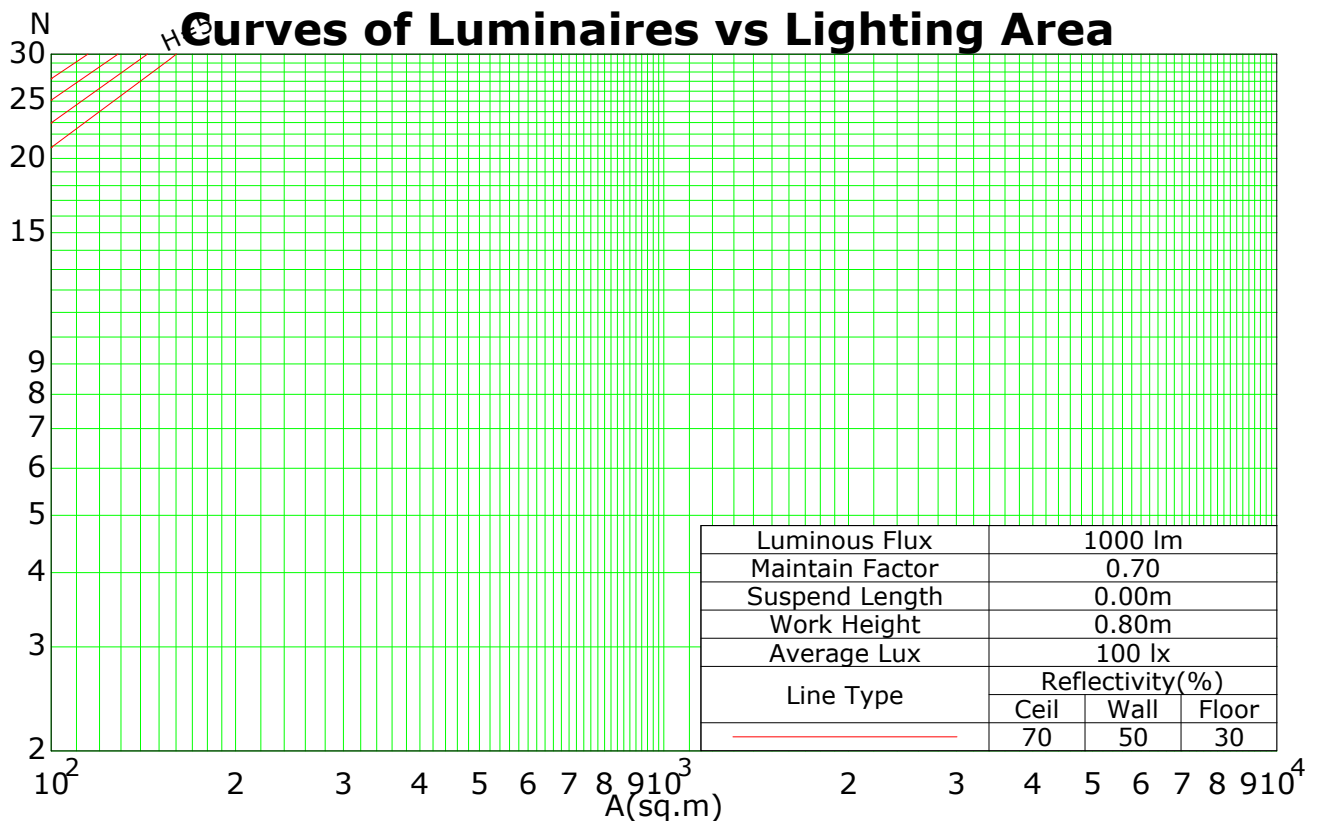
Humidity:

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	90	88	87	84
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	42	51	46	41	39
8	64	52	44	38	63	51	44	38	50	43	38	49	42	38	47	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

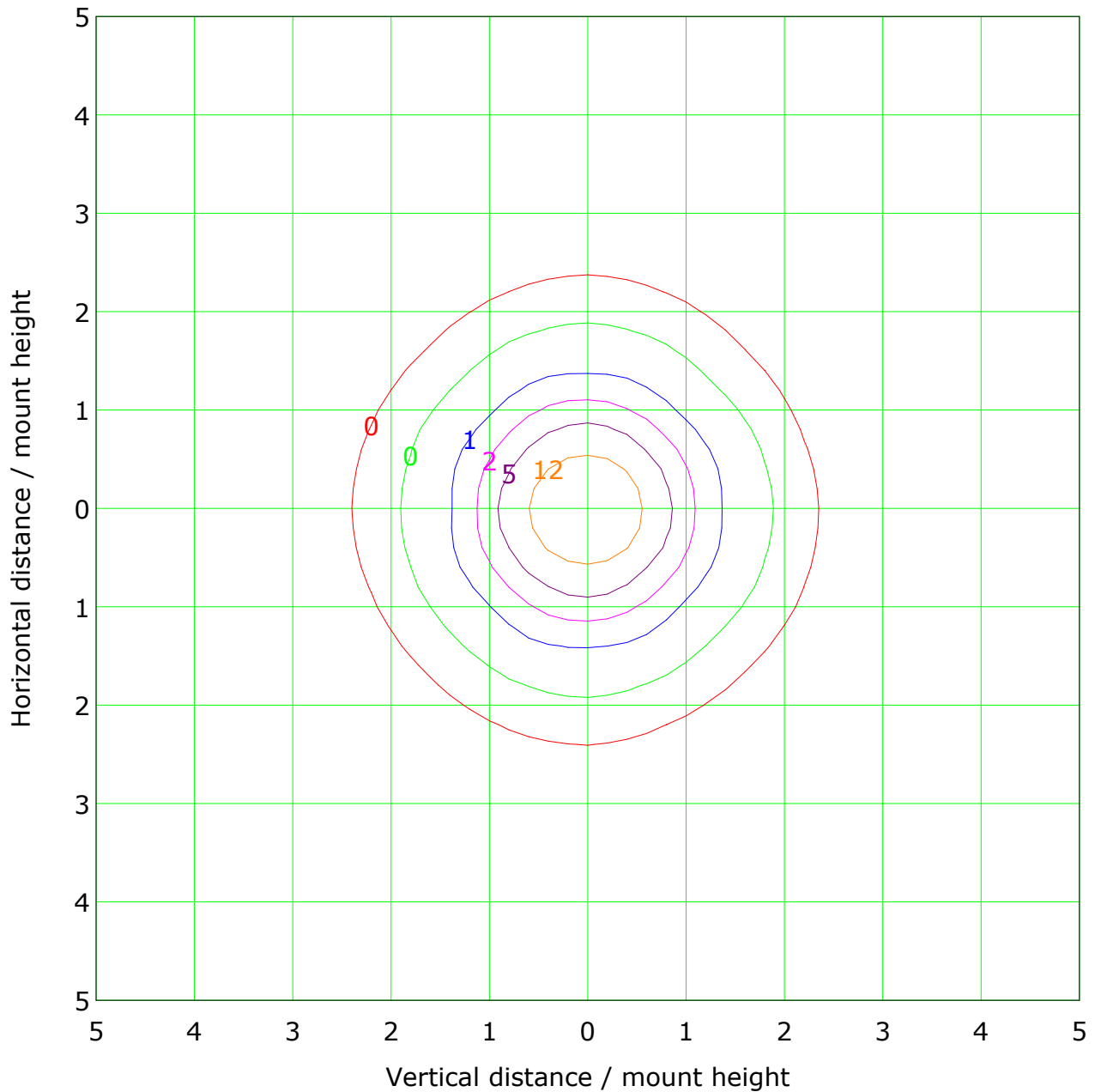
Spacing Criteria (0-180): 1.15
 Spacing Criteria (90-270): 1.10
 Spacing Criteria (Diagonal): 1.11



C Plane (°):0.0-360.0: 22.5
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 Test Device: LSG-1800B
 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 24.7 lx

(1%): 0.2 lx	(2%): 0.5 lx
(5%): 1.2 lx	(10%): 2.5 lx
(20%): 4.9 lx	(50%): 12.4 lx
(100%): 24.7 lx	

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

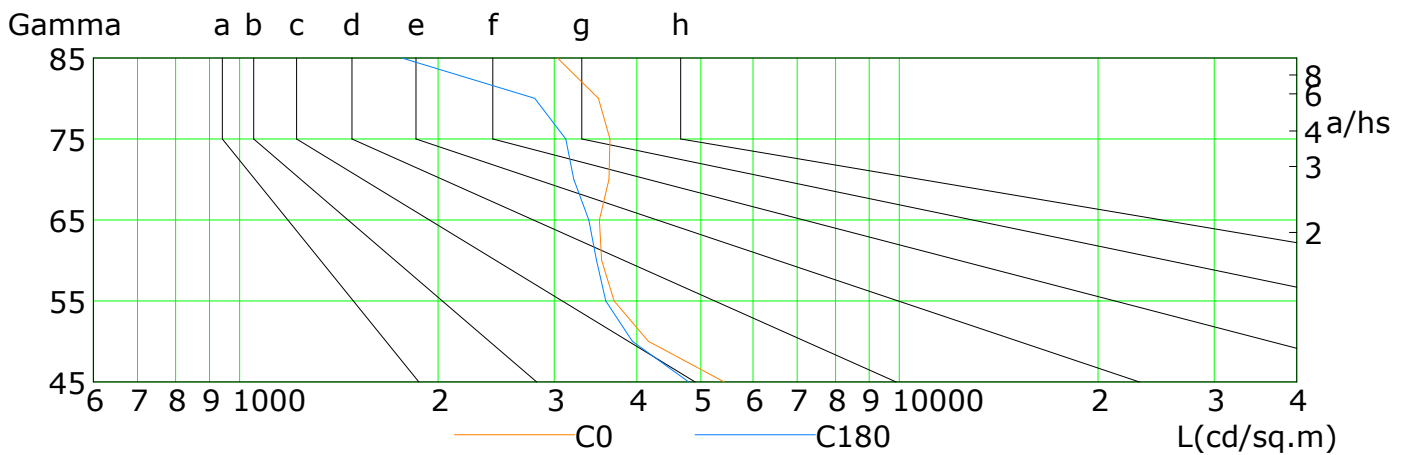
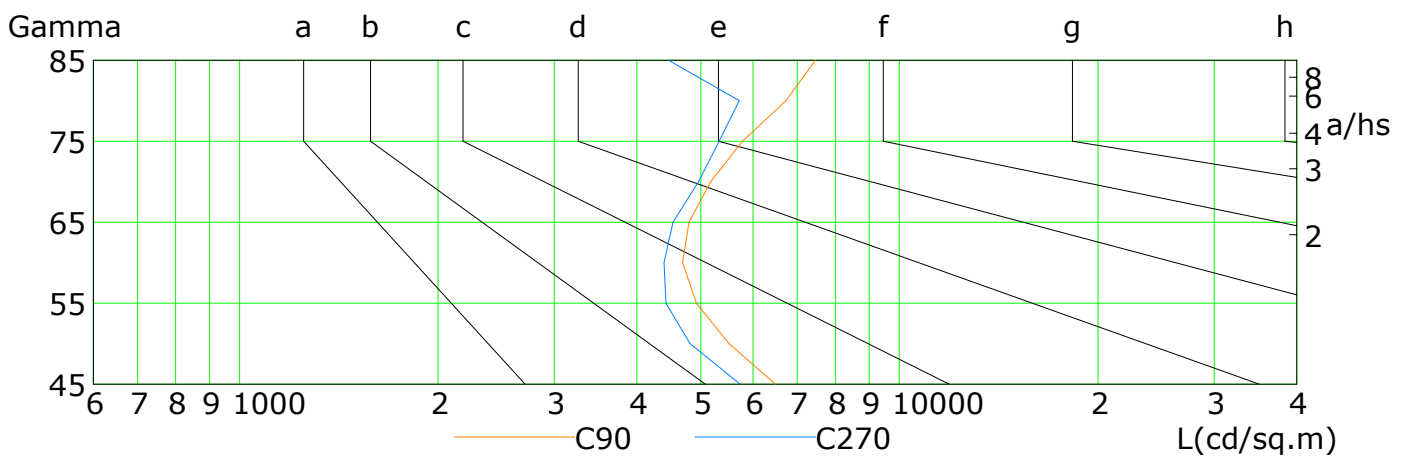
Humidity:

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	5425	4165	3695	3539	3509	3628	3640	3500	3031
C90	6490	5517	4924	4695	4800	5176	5781	6732	7460
C180	4793	3938	3589	3476	3383	3209	3123	2800	1762
C270	5735	4815	4426	4398	4536	4961	5329	5719	4470

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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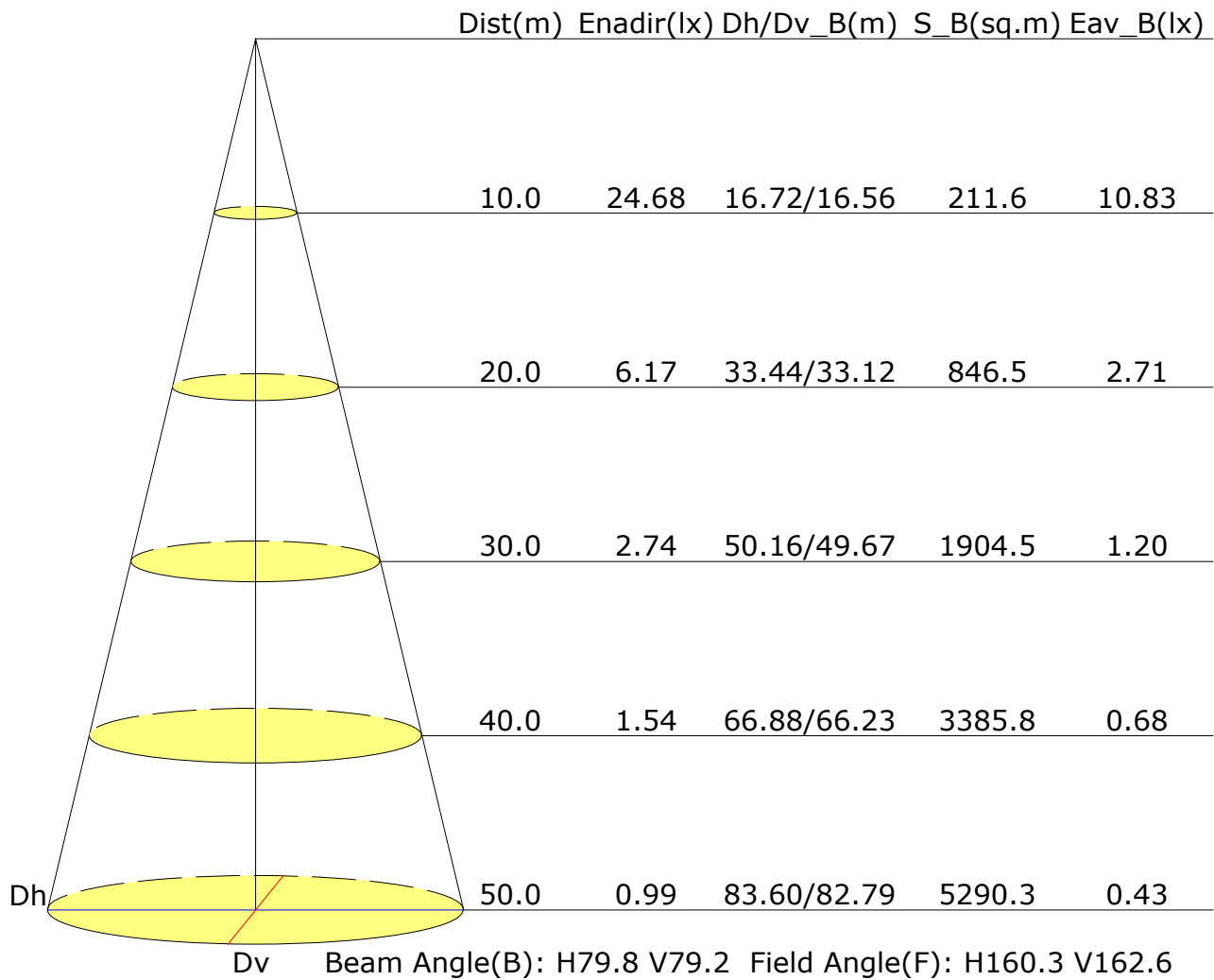
Test Device: LSG-1800B

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 (°):0.0-180.0:2.0

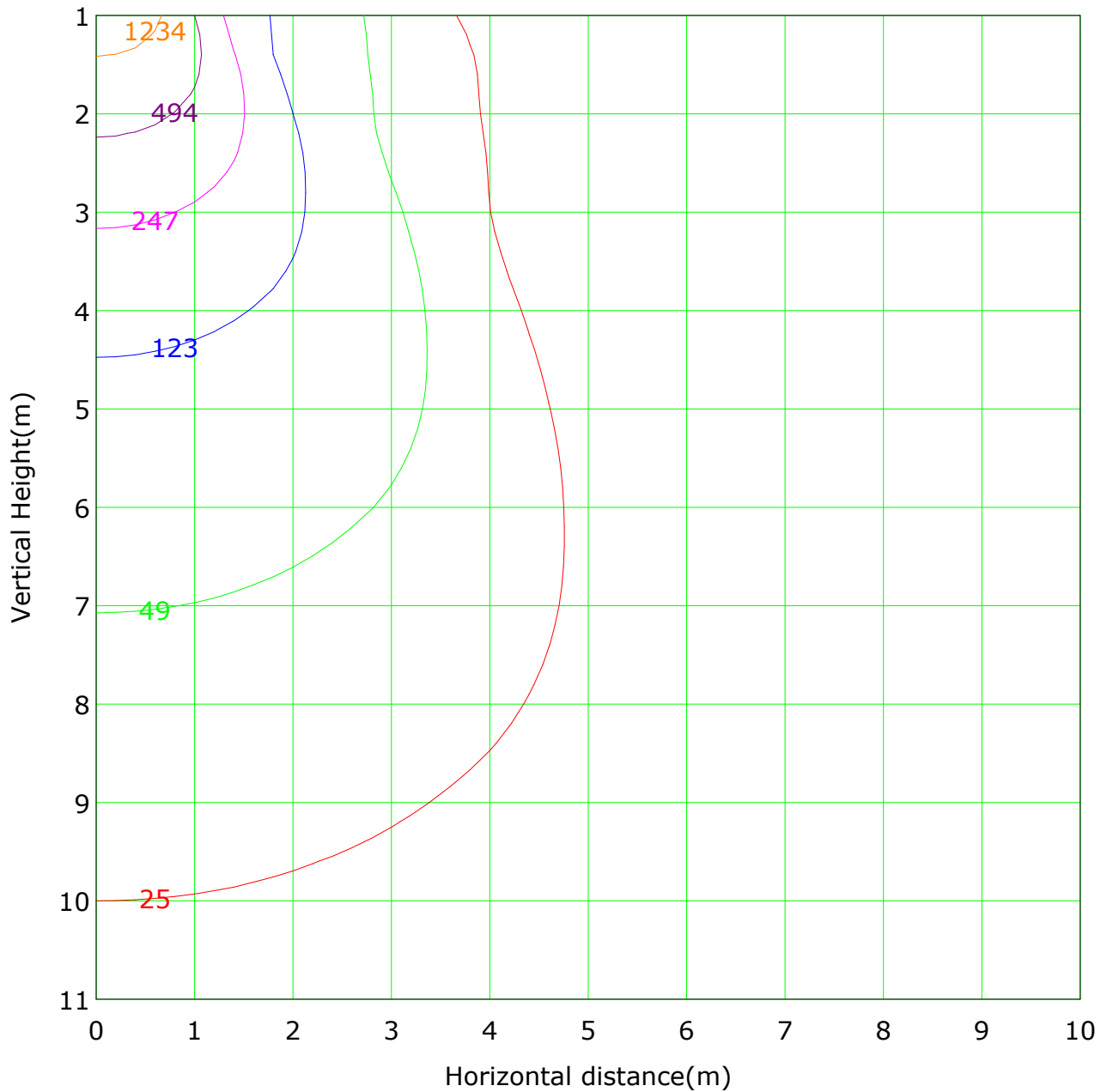
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2467.7 lx
— (1%): 24.7 lx — (2%): 49.4 lx
— (5%): 123.4 lx — (10%): 246.8 lx
— (20%): 493.5 lx — (50%): 1233.8 lx
— (100%): 2467.7 lx

C Plane (°): 0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

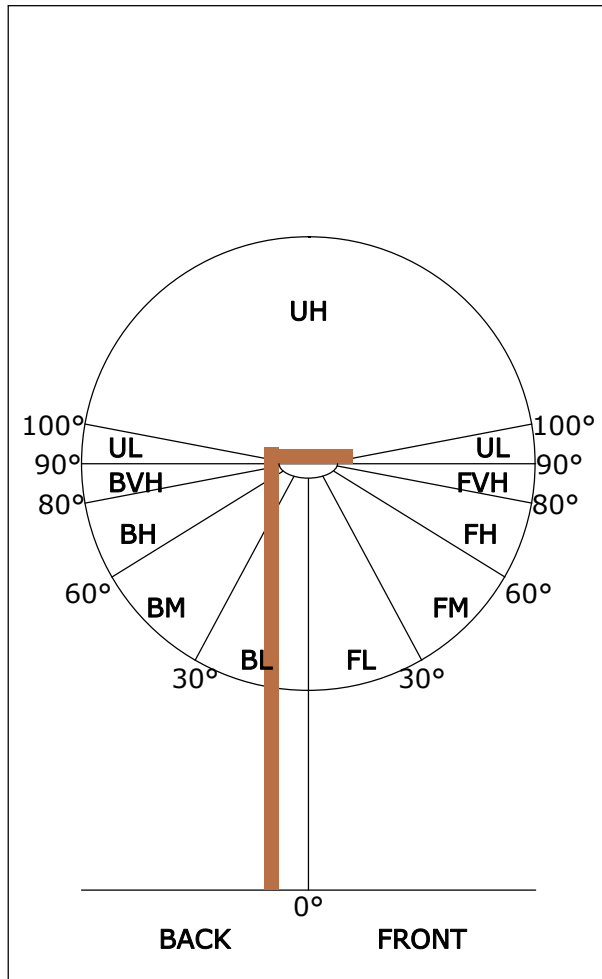
Gamma Plane (°): 0.0-180.0: 2.0

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	2549	51.2
FL (0°-30°)	938	18.8
FM (30°-60°)	1147	23.0
FH (60°-80°)	386	7.8
FVH (80°-90°)	78	1.6
BACK LIGHT	2413	48.5
BL (0°-30°)	915	18.4
BM (30°-60°)	1073	21.5
BH (60°-80°)	367	7.4
BVH (80°-90°)	58	1.2
UP LIGHT	18	0.4
UL (90°-100°)	2	0.0
UH (100°-180°)	16	0.3
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U2 G1

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