

Report No.: 1

Test Time: 30.01.2019 15:50

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 595x1200 0,7A 74W

Lamp Description: LED

Luminous Width (mm): 595

Voltage: 221.4 V

Power: 71.9 W

Luminous Length (mm): 1200

Luminous Height (mm): 35

Current: 0.335 A

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Measurement Flux: 9092.4 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.0, 160.9, 152.4, 152.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 81.5, 83.9, 78.7, 79.5

Luminaire Efficacy Rating (LER): 126.51

Max. Intensity: 4416.63 cd

S/MH(C0/C180): 1.17

Total Rated Lamp Lumens: 9092.4 lm

Efficiency: 100%

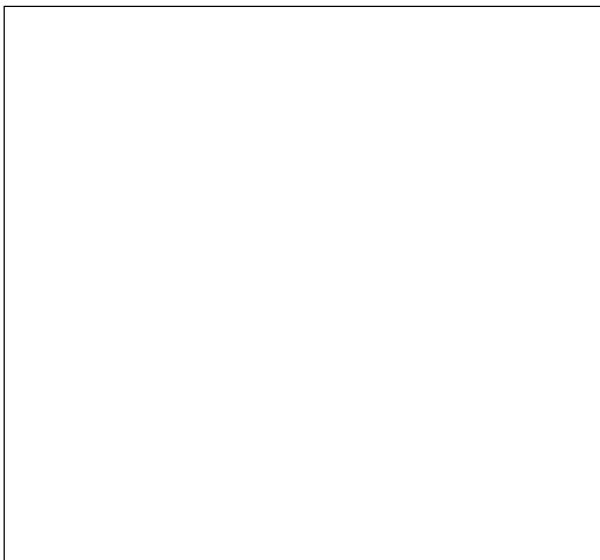
Upward Ratio: 1%

Central Intensity: 4416.62 cd

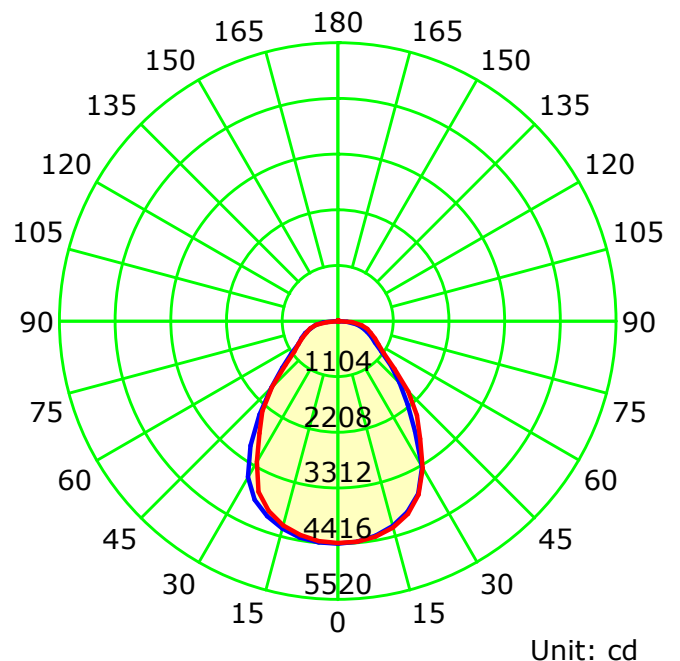
Pos of Max. Intensity: H0 V0

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

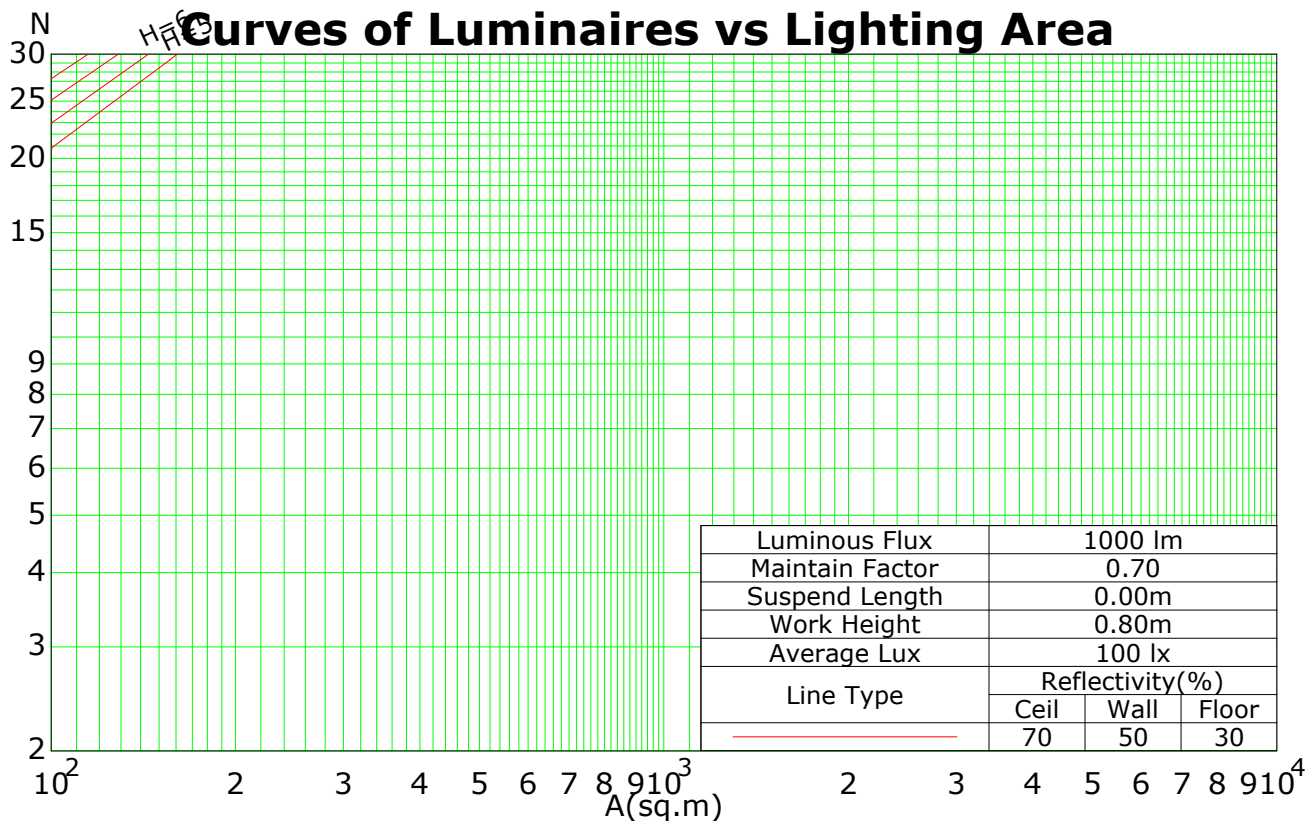
Humidity:

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	107	102	99	95	98	95	92	94	92	89	90	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	83	75	69	90	81	74	69	78	72	67	75	70	66	73	69	65	63
4	85	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	53	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	37	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

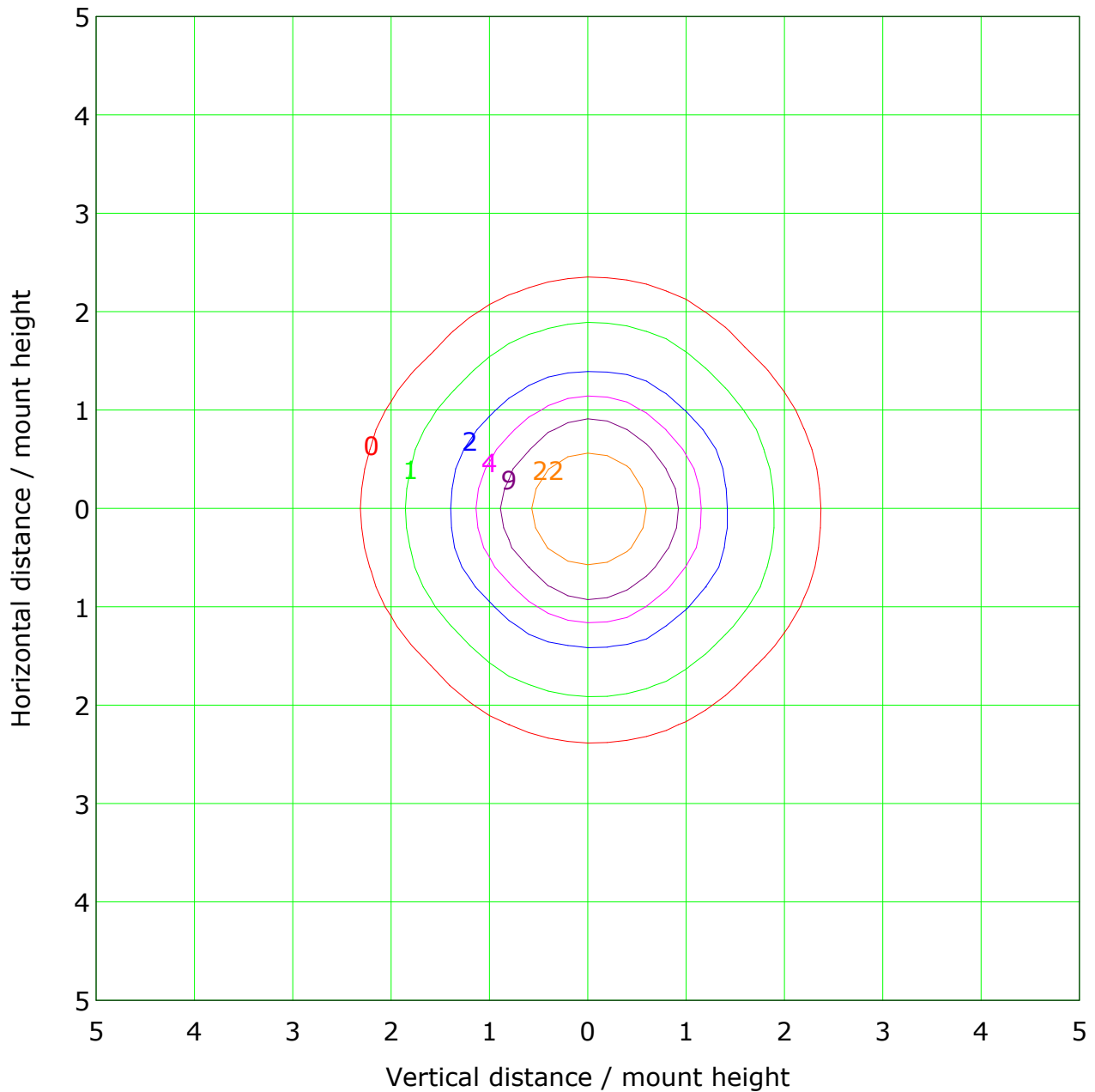
Spacing Criteria (0-180): 1.17
 Spacing Criteria (90-270): 1.13
 Spacing Criteria (Diagonal): 1.13



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%): 44.2 lx

(1%): 0.4 lx	(2%): 0.9 lx
(5%): 2.2 lx	(10%): 4.4 lx
(20%): 8.8 lx	(50%): 22.1 lx
(100%): 44.2 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

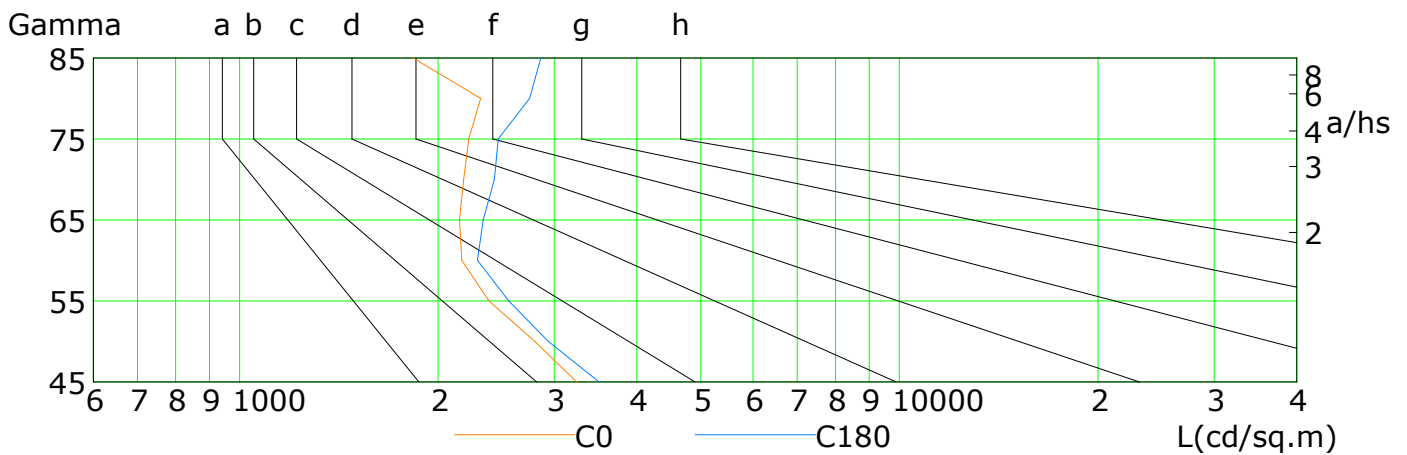
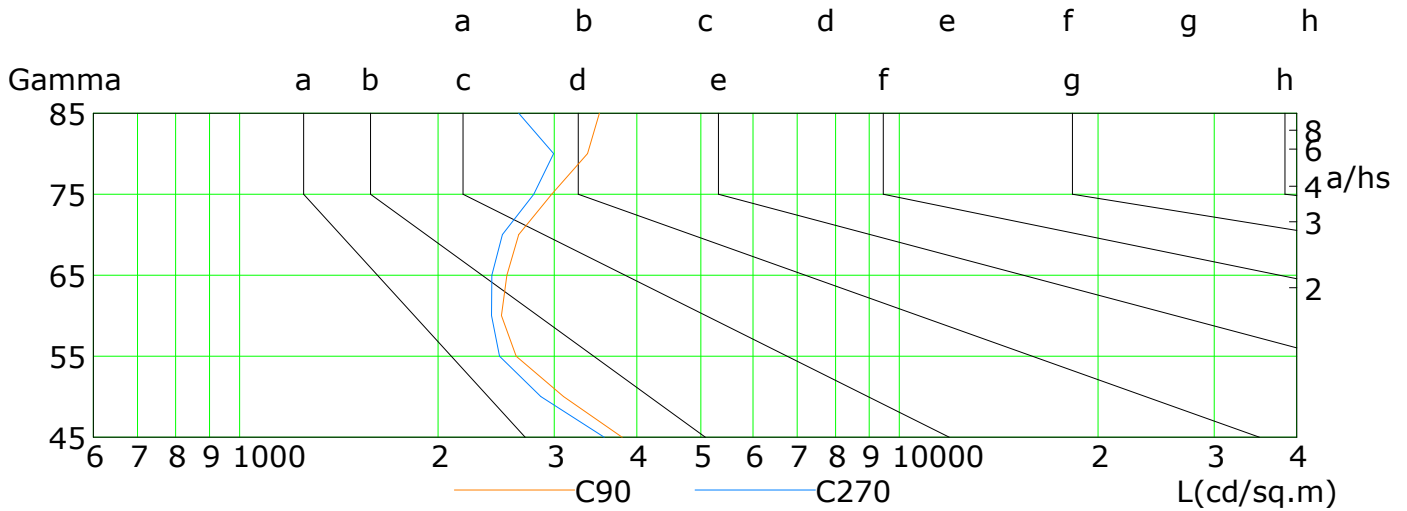
Distance: 12.654 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3242	2801	2388	2172	2154	2185	2225	2319	1833
C90	3802	3099	2627	2495	2542	2648	2973	3367	3509
C180	3506	2935	2559	2294	2339	2432	2467	2750	2862
C270	3571	2862	2478	2410	2412	2503	2791	2991	2649

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Temperature:

Operator:

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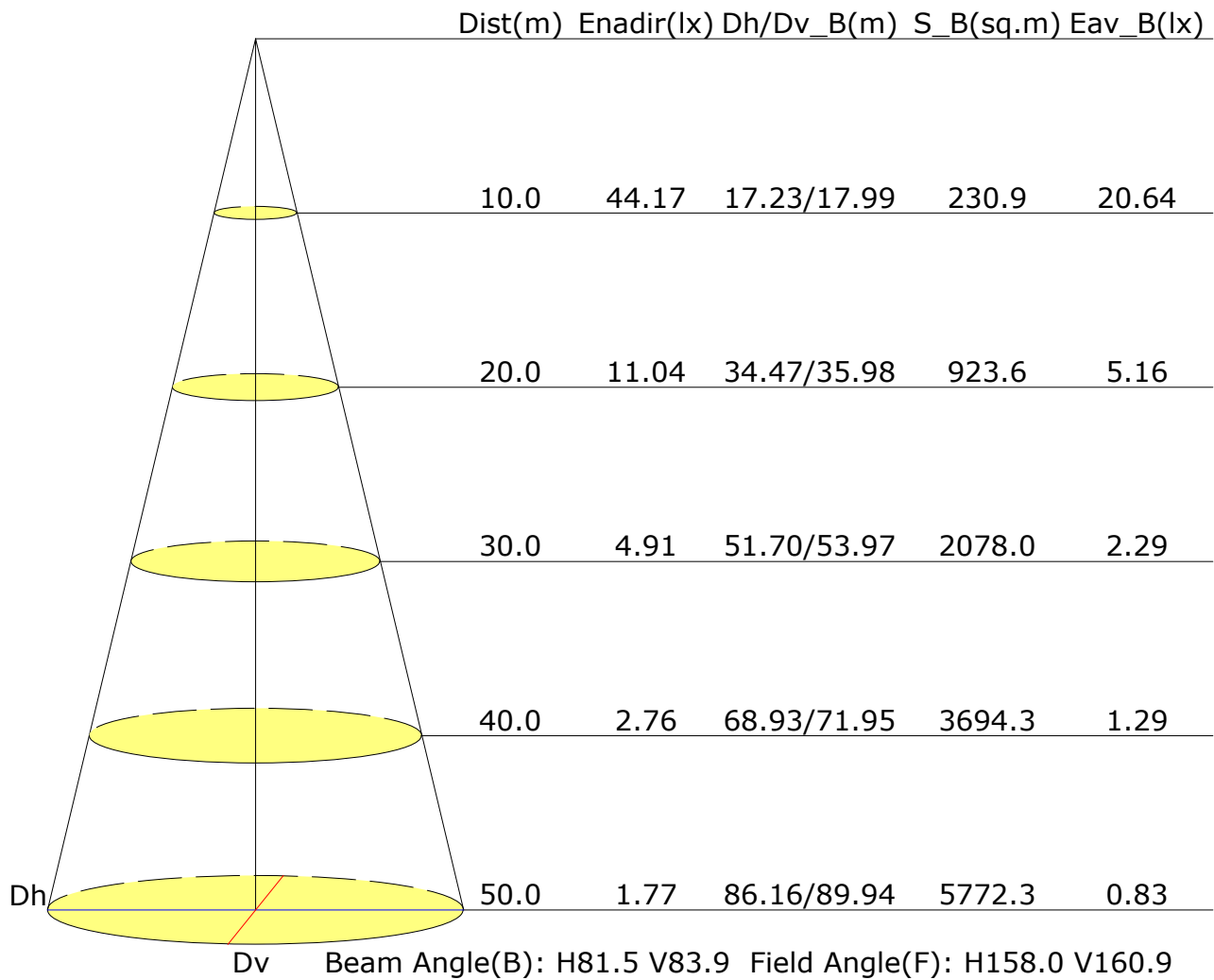
Test Device: LSG-1800B

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

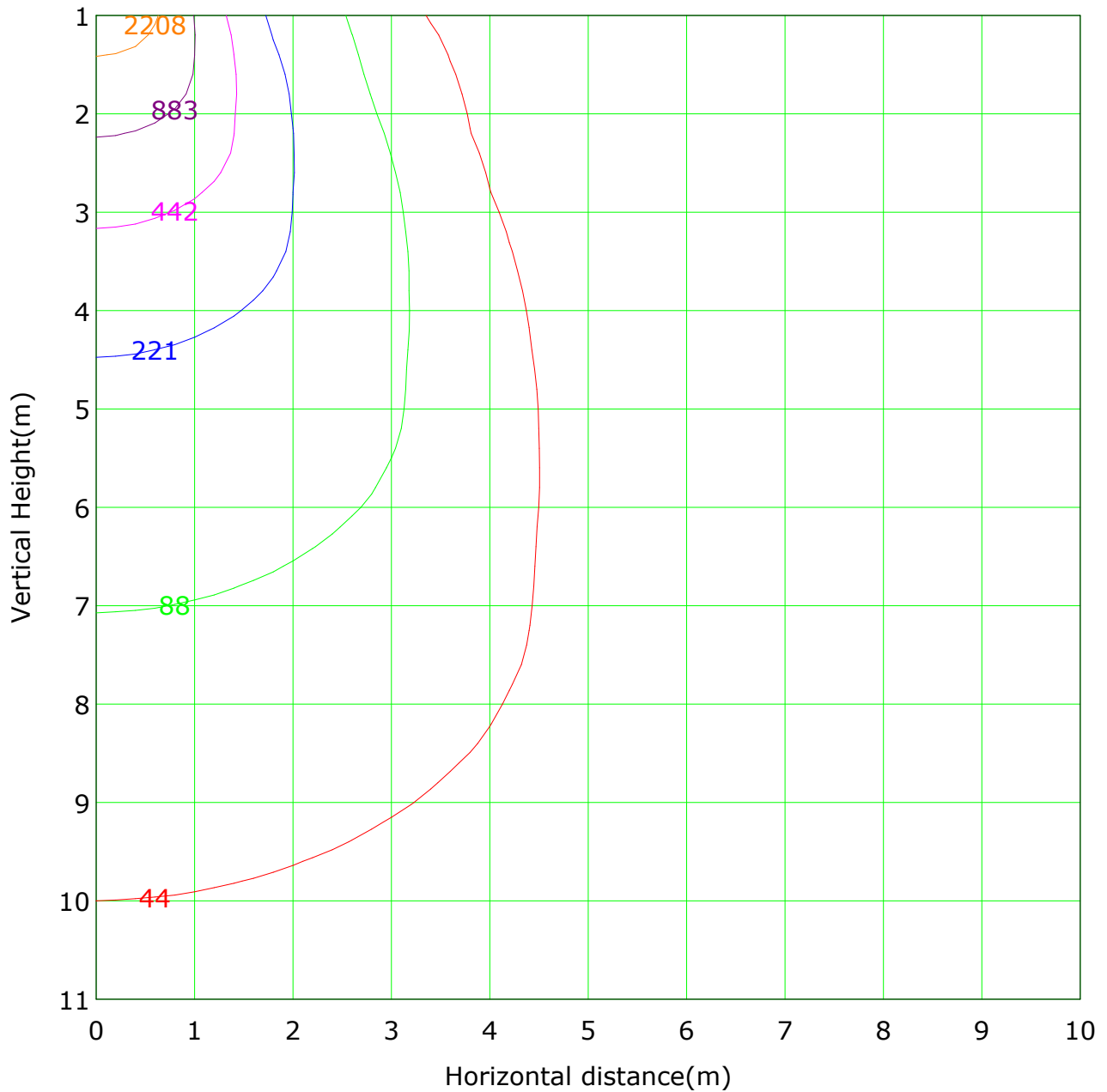
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4416.6 lx

(1%): 44.2 lx	(2%): 88.3 lx
(5%): 220.8 lx	(10%): 441.7 lx
(20%): 883.3 lx	(50%): 2208.3 lx
(100%): 4416.6 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	4598	50.6
FL (0°-30°)	1682	18.5
FM (30°-60°)	2126	23.4
FH (60°-80°)	667	7.3
FVH (80°-90°)	123	1.4
BACK LIGHT	4440	48.8
BL (0°-30°)	1664	18.3
BM (30°-60°)	2036	22.4
BH (60°-80°)	636	7.0
BVH (80°-90°)	105	1.2
UP LIGHT	54	0.6
UL (90°-100°)	10	0.1
UH (100°-180°)	43	0.5
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U2 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U2 G1

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