

Report No.: 1

Test Time: 23.10.2018 10:32

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 0,675A 112W 5000K opal

Lamp Description: LED

Luminous Width (mm): 55

Voltage: 221.5 V

Power: 111.72 W

Luminous Length (mm): 1500

Luminous Height (mm): 85

Current: 0.508 A

Power Factor: 0.991

Photometric Results

CIE Class: Direct

Measurement Flux: 13339.8 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.3, 162.4, 161.1, 161.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.8, 109.6, 109.2, 109.2

Luminaire Efficacy Rating (LER): 119.45

Max. Intensity: 4771.94 cd

S/MH(C0/C180): 1.23

Total Rated Lamp Lumens: 13339.8 lm

Efficiency: 100%

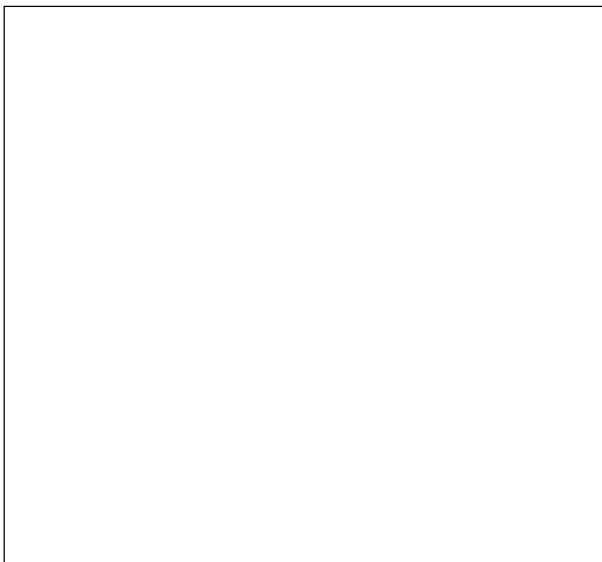
Upward Ratio: 1%

Central Intensity: 4757.03 cd

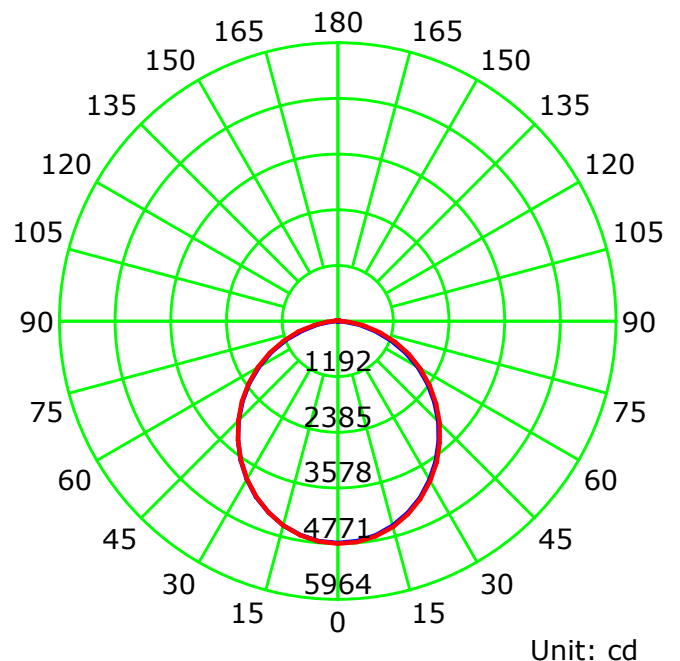
Pos of Max. Intensity: H112.5 V0

S/MH(C90/C270): 1.23

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

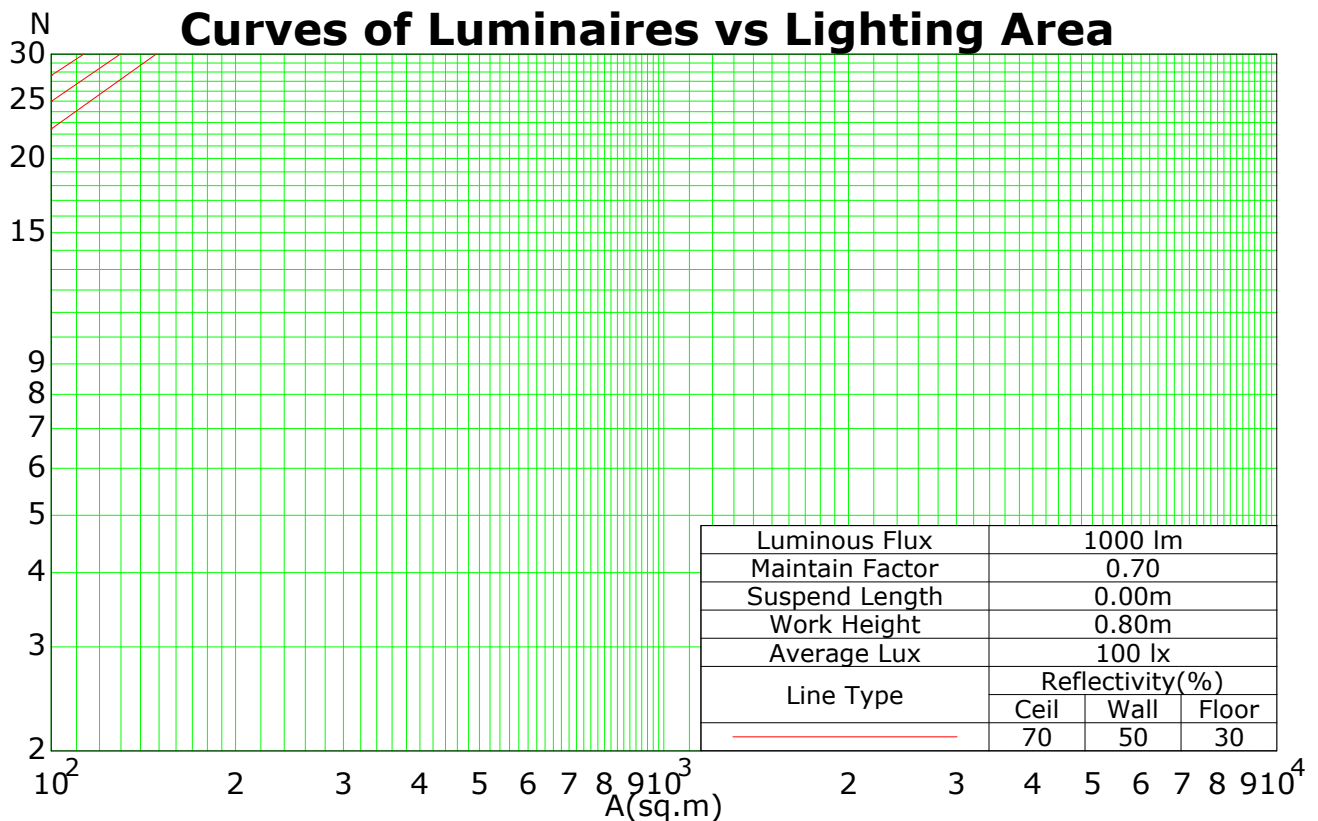
Humidity:

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	110	110	110	105	105	105	101	101	101	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	57	52	61	56	52	49
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	57	48	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

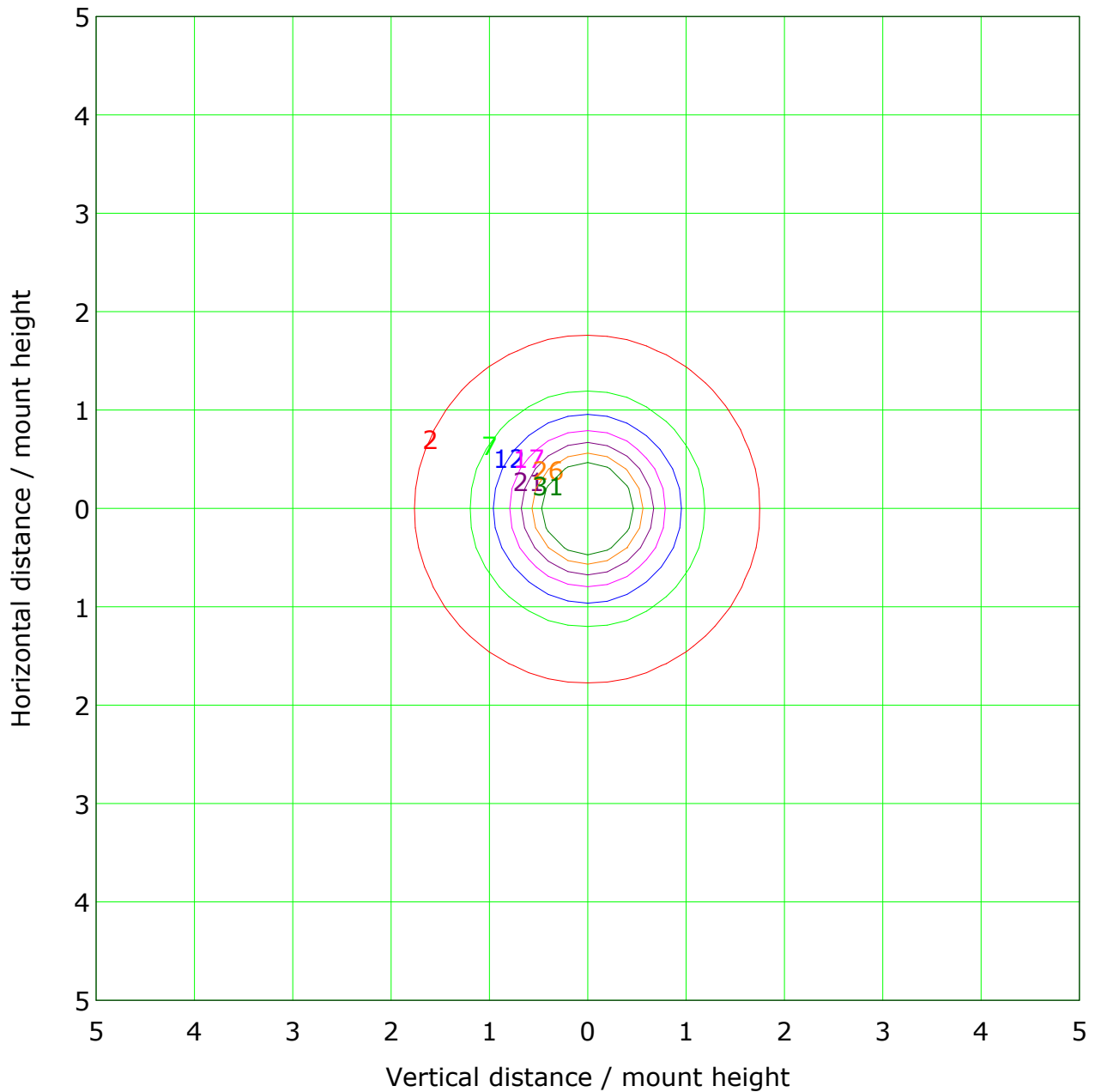
Spacing Criteria (0-180): 1.23
 Spacing Criteria (90-270): 1.23
 Spacing Criteria (Diagonal): 1.35



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%): 47.7 lx	
(5%): 2.4 lx	(15%): 7.2 lx
(25%): 11.9 lx	(35%): 16.7 lx
(45%): 21.5 lx	(55%): 26.2 lx
(65%): 31.0 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

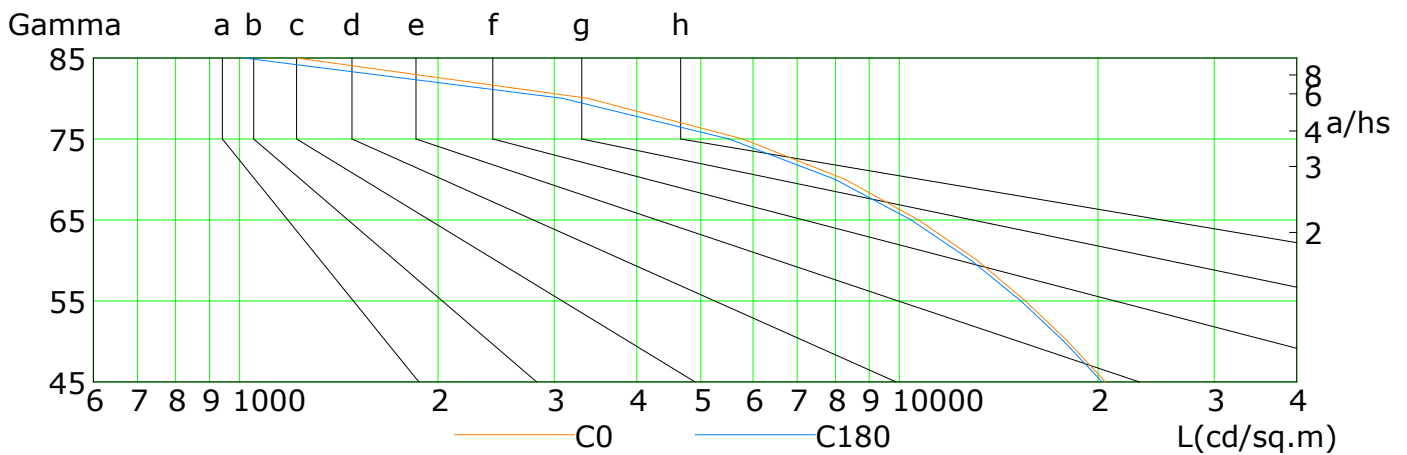
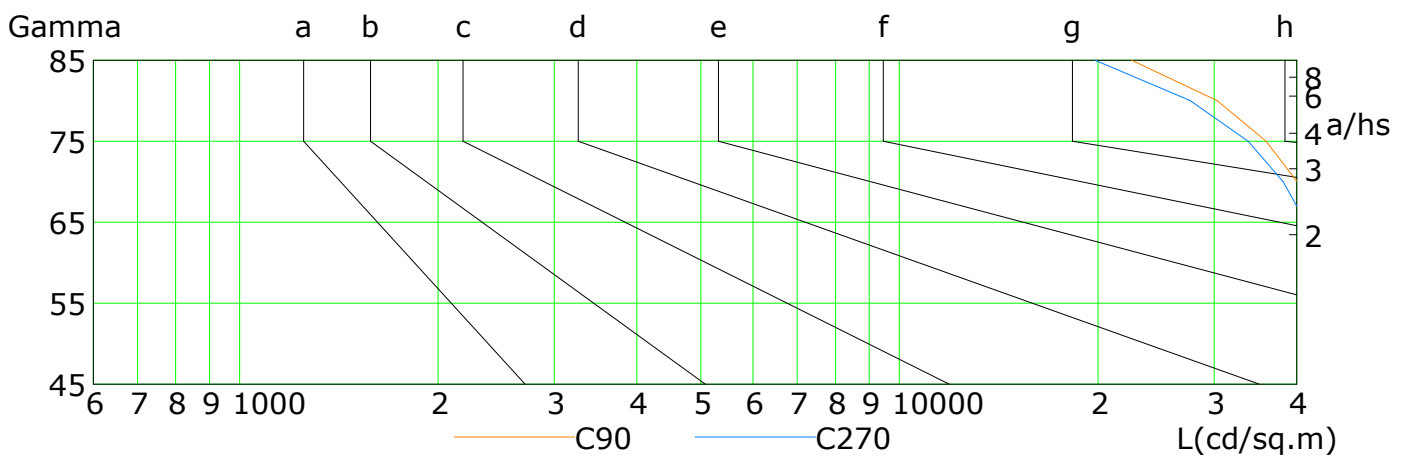
Humidity:

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	20518	17981	15522	13114	10692	8263	5788	3372	1221
C90	50040	48640	47056	45231	42956	40057	35960	30315	22486
C180	20297	17748	15281	12844	10421	7982	5515	3087	1015
C270	48945	47439	45677	43720	41271	38135	33774	27591	19812

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Operator:

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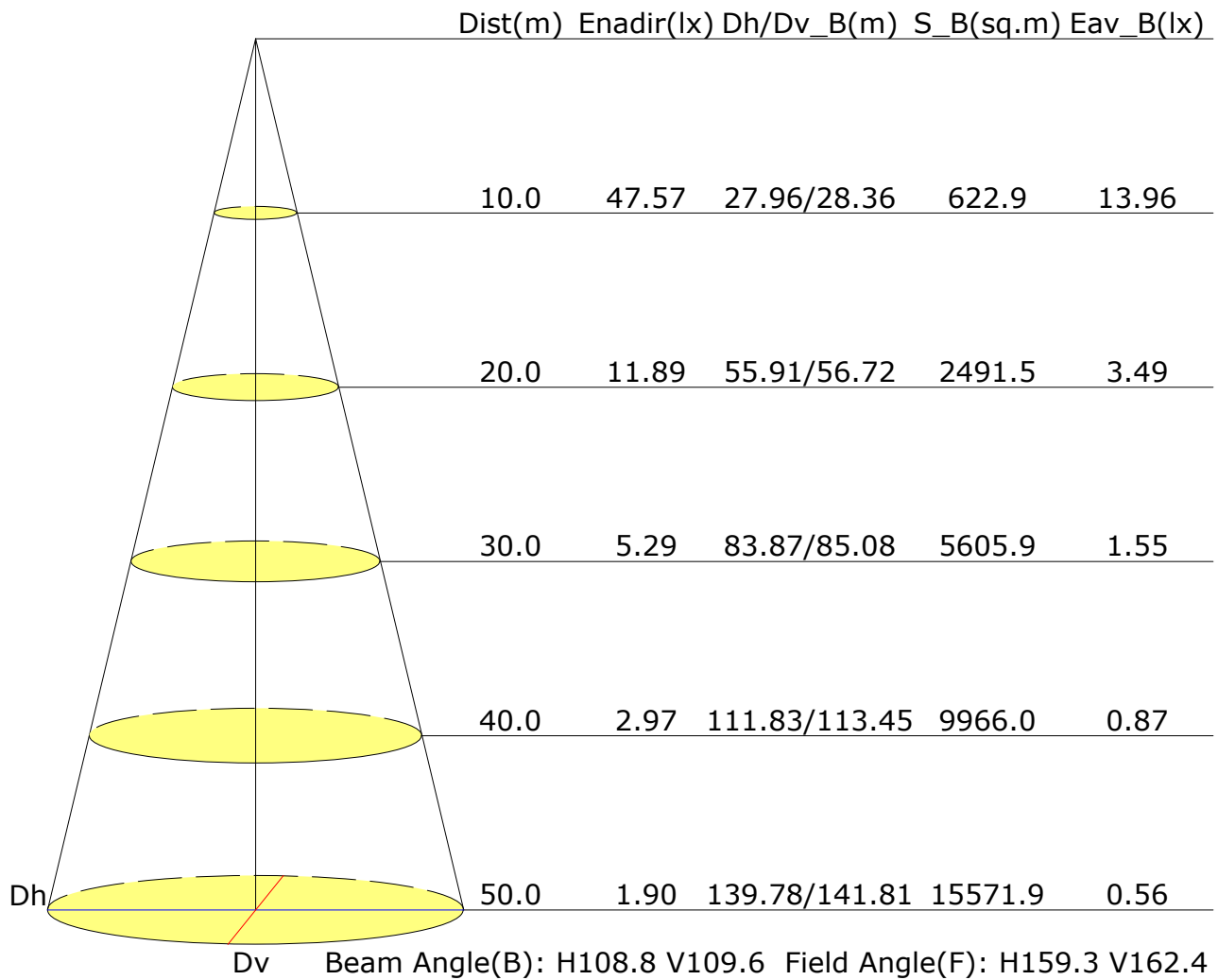
Test Device: LSG-1800B

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

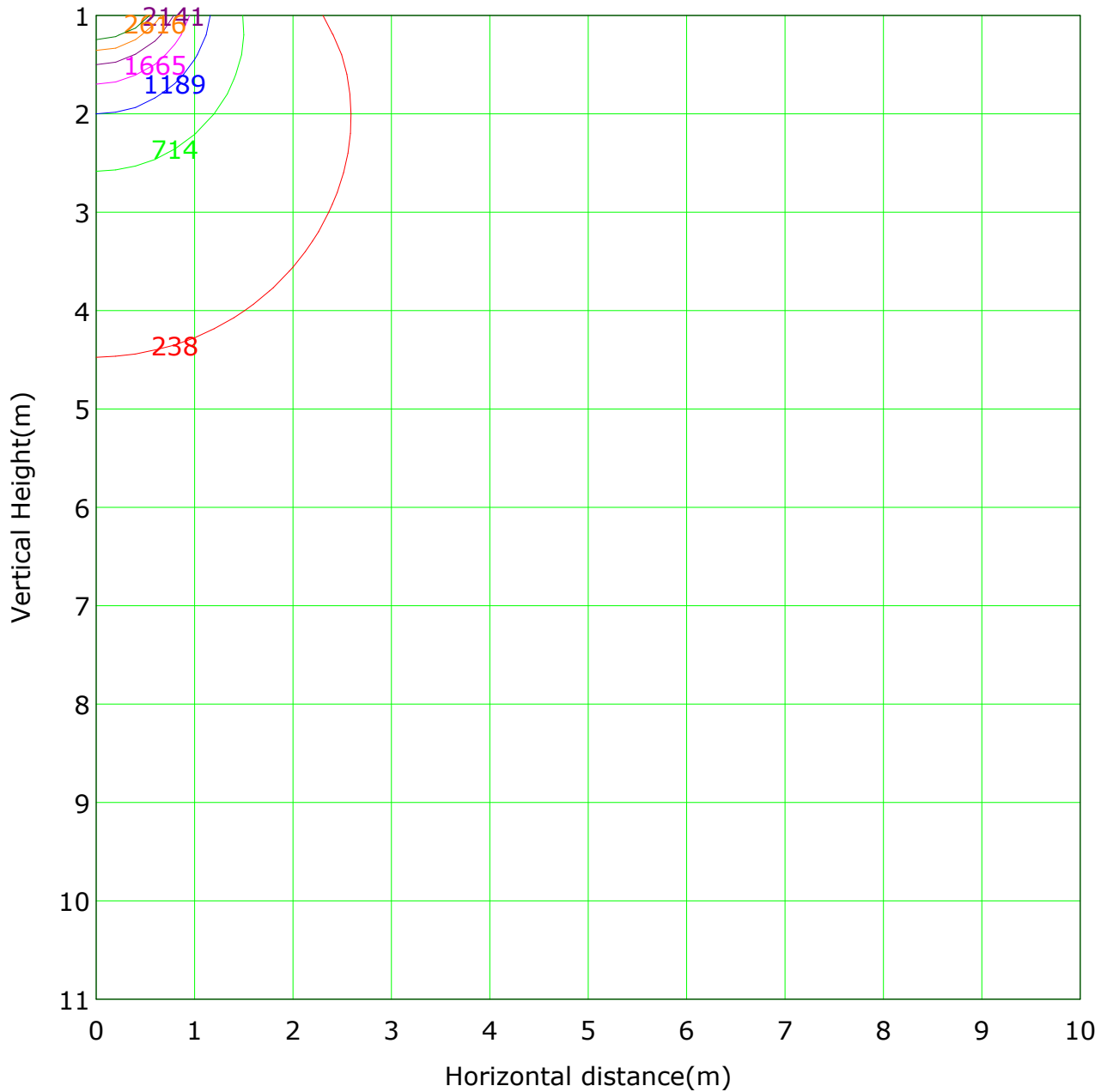
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4757.0 lx

(5%): 237.9 lx	(15%): 713.6 lx
(25%):1189.3 lx	(35%):1665.0 lx
(45%):2140.7 lx	(55%):2616.4 lx
(65%):3092.1 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	6646	49.8
FL (0°-30°)	1832	13.7
FM (30°-60°)	3395	25.5
FH (60°-80°)	1281	9.6
FVH (80°-90°)	138	1.0
BACK LIGHT	6527	48.9
BL (0°-30°)	1821	13.6
BM (30°-60°)	3343	25.1
BH (60°-80°)	1236	9.3
BVH (80°-90°)	127	1.0
UP LIGHT	166	1.2
UL (90°-100°)	49	0.4
UH (100°-180°)	117	0.9
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U3 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U3 G1

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