

Report No.: 1

Test Time: 23.10.2018 09:59

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 0,675A 110W 5000K

Lamp Description: LED

Luminous Width (mm): 55

Voltage: 221.9 V

Power: 112.12 W

Luminous Length (mm): 1500

Luminous Height (mm): 85

Current: 0.509 A

Power Factor: 0.990

Photometric Results

CIE Class: Direct

Measurement Flux: 15722.8 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.9, 152.6, 156.3, 156.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.9, 116.1, 113.3, 113.6

Luminaire Efficacy Rating (LER): 140.28

Max. Intensity: 5375.63 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 15722.8 lm

Efficiency: 100%

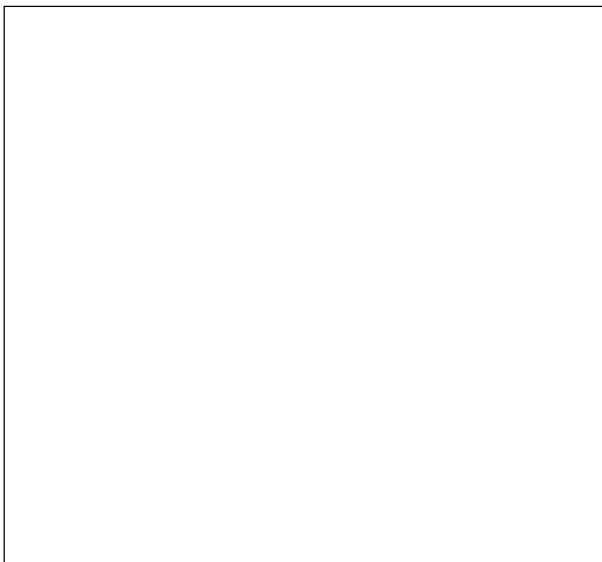
Upward Ratio: 1%

Central Intensity: 5342.91 cd

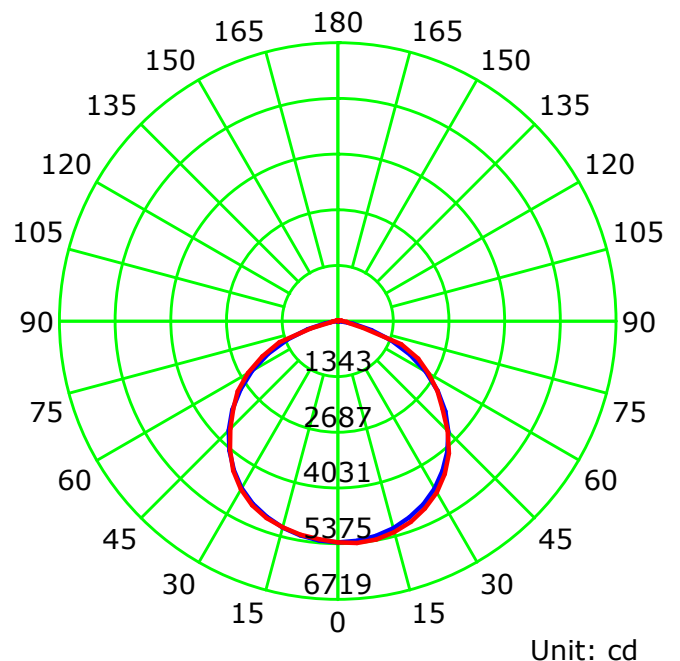
Pos of Max. Intensity: H90 V5

S/MH(C90/C270): 1.31

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

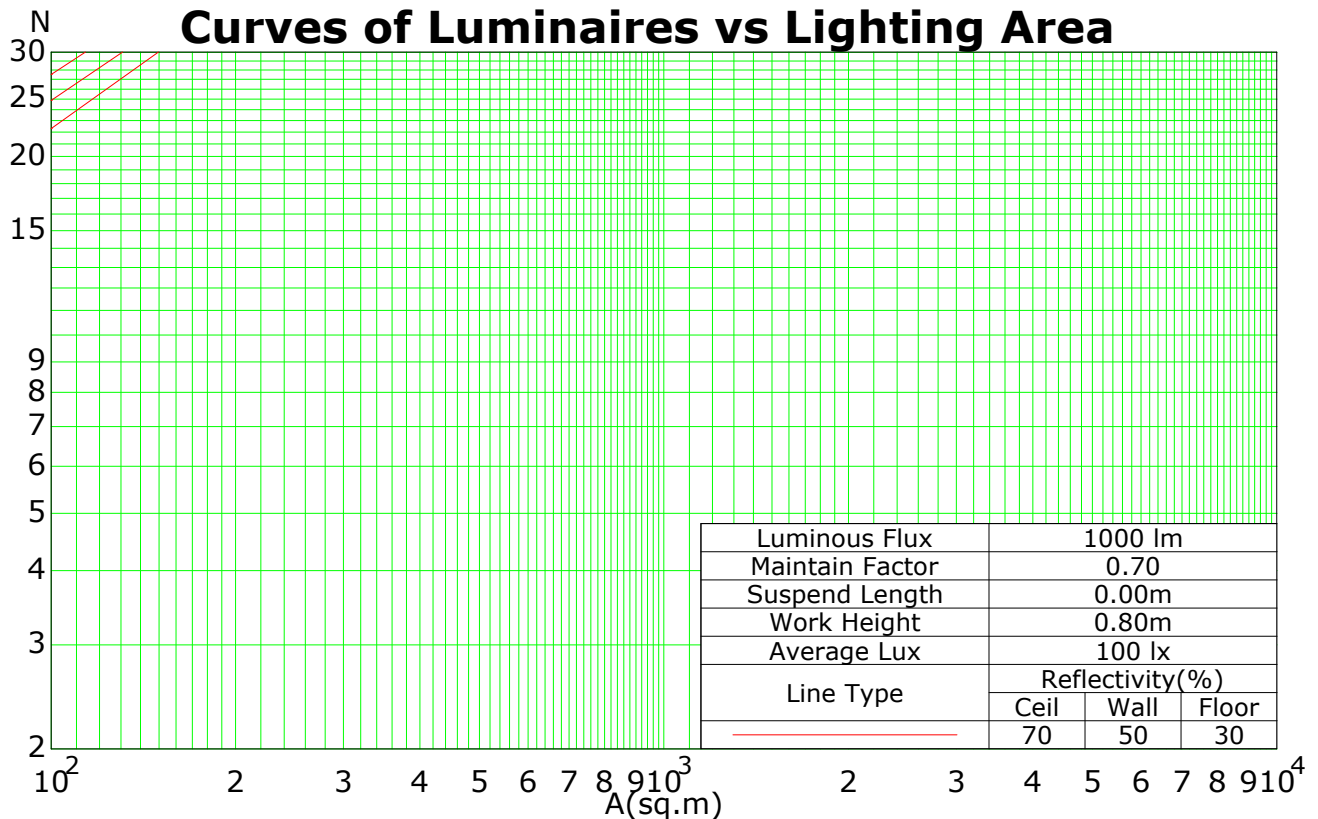
Humidity:

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	104	100	96	106	102	98	95	97	94	92	93	91	89	90	88	86	84
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	43	36	63	51	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	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	51	39	31	26	38	31	26	37	31	26	36	30	26	24

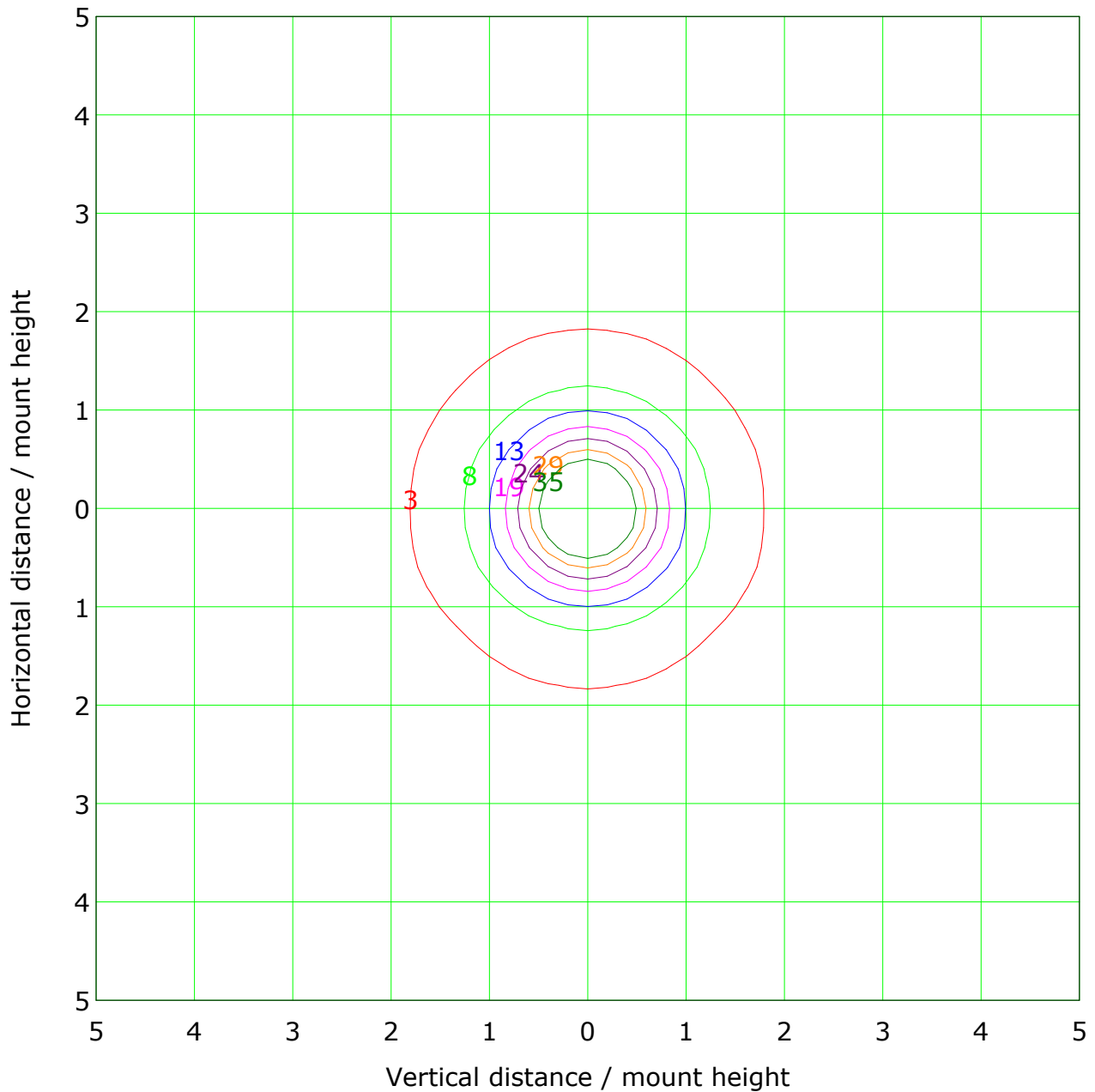
Spacing Criteria (0-180): 1.29
 Spacing Criteria (90-270): 1.31
 Spacing Criteria (Diagonal): 1.42



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%): 53.5 lx	
(5%): 2.7 lx	(15%): 8.0 lx
(25%): 13.4 lx	(35%): 18.7 lx
(45%): 24.1 lx	(55%): 29.4 lx
(65%): 34.8 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

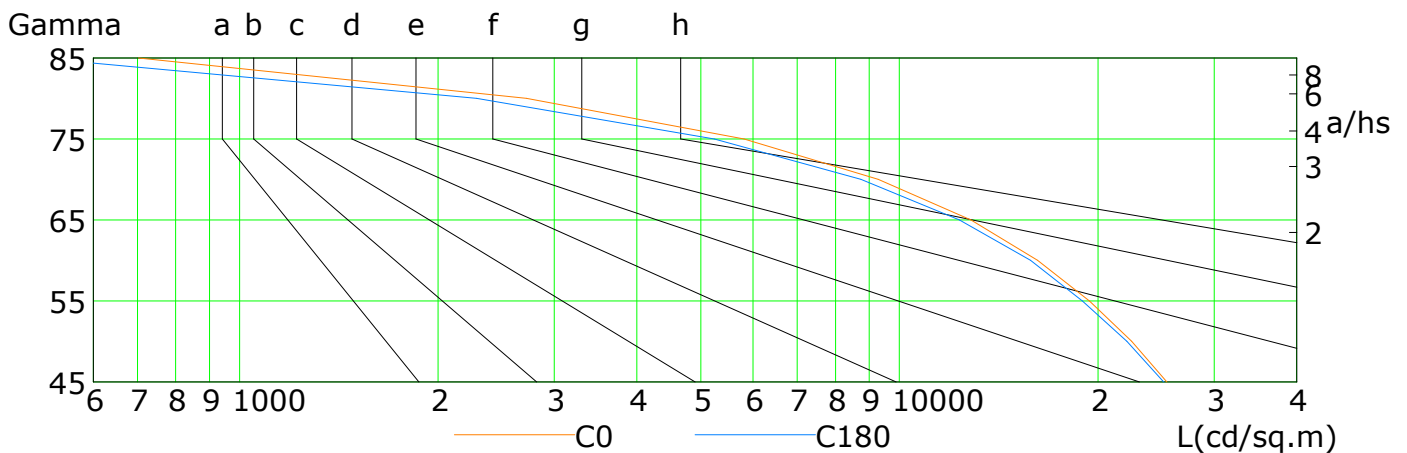
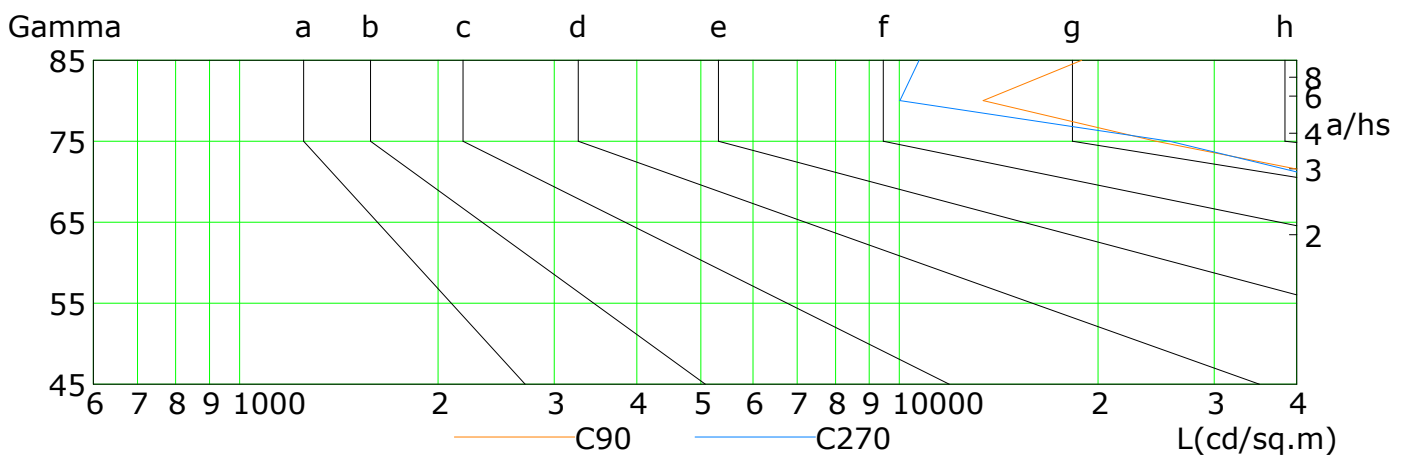
Humidity:

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	25423	22500	19401	16190	12838	9290	5815	2720	703
C90	60881	58256	57437	55801	54843	50060	24472	13389	18885
C180	25143	22116	18937	15805	12325	8740	5244	2285	499
C270	59675	58395	57871	55447	51458	46244	25697	10023	10716

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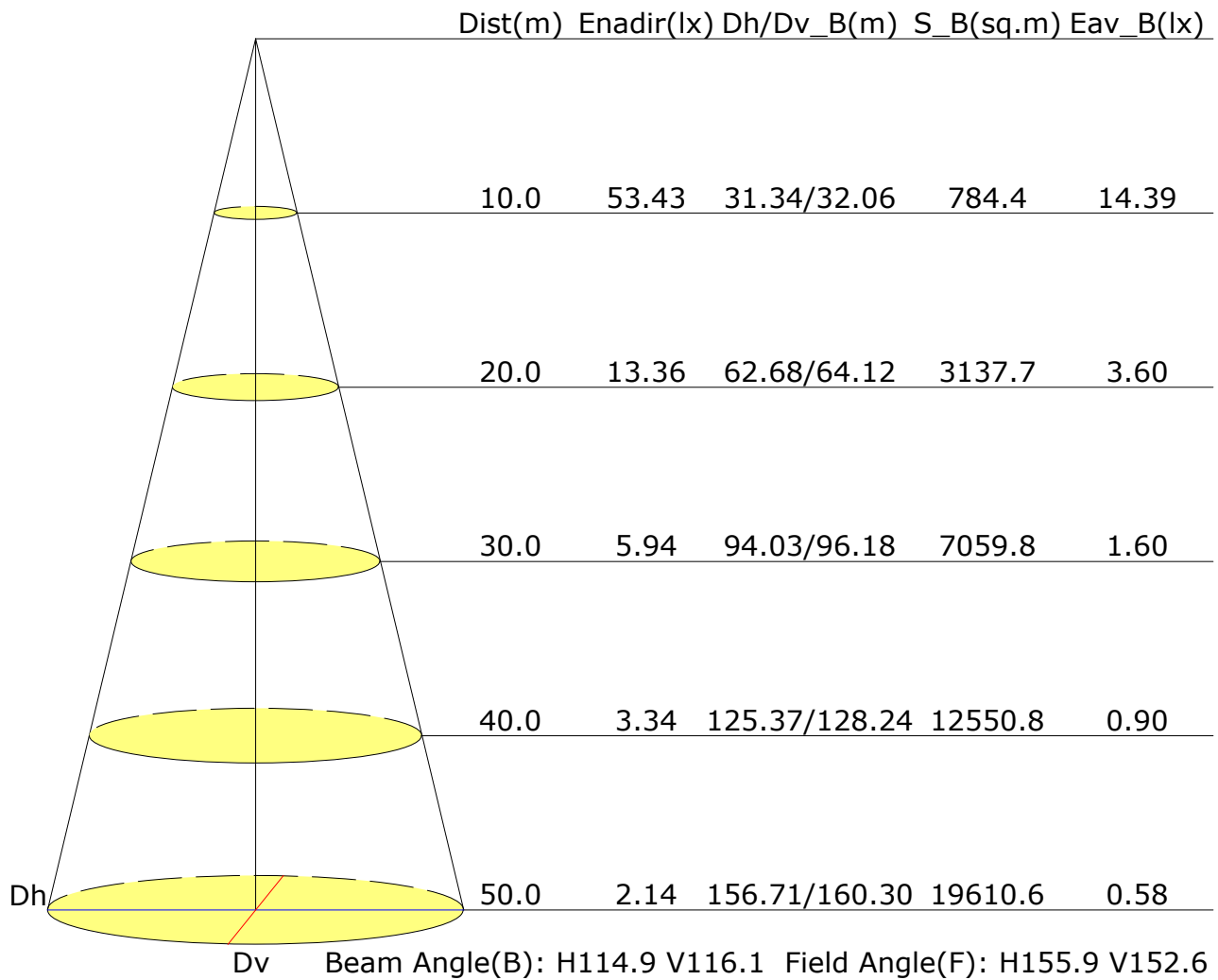
Test Device: LSG-1800B

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

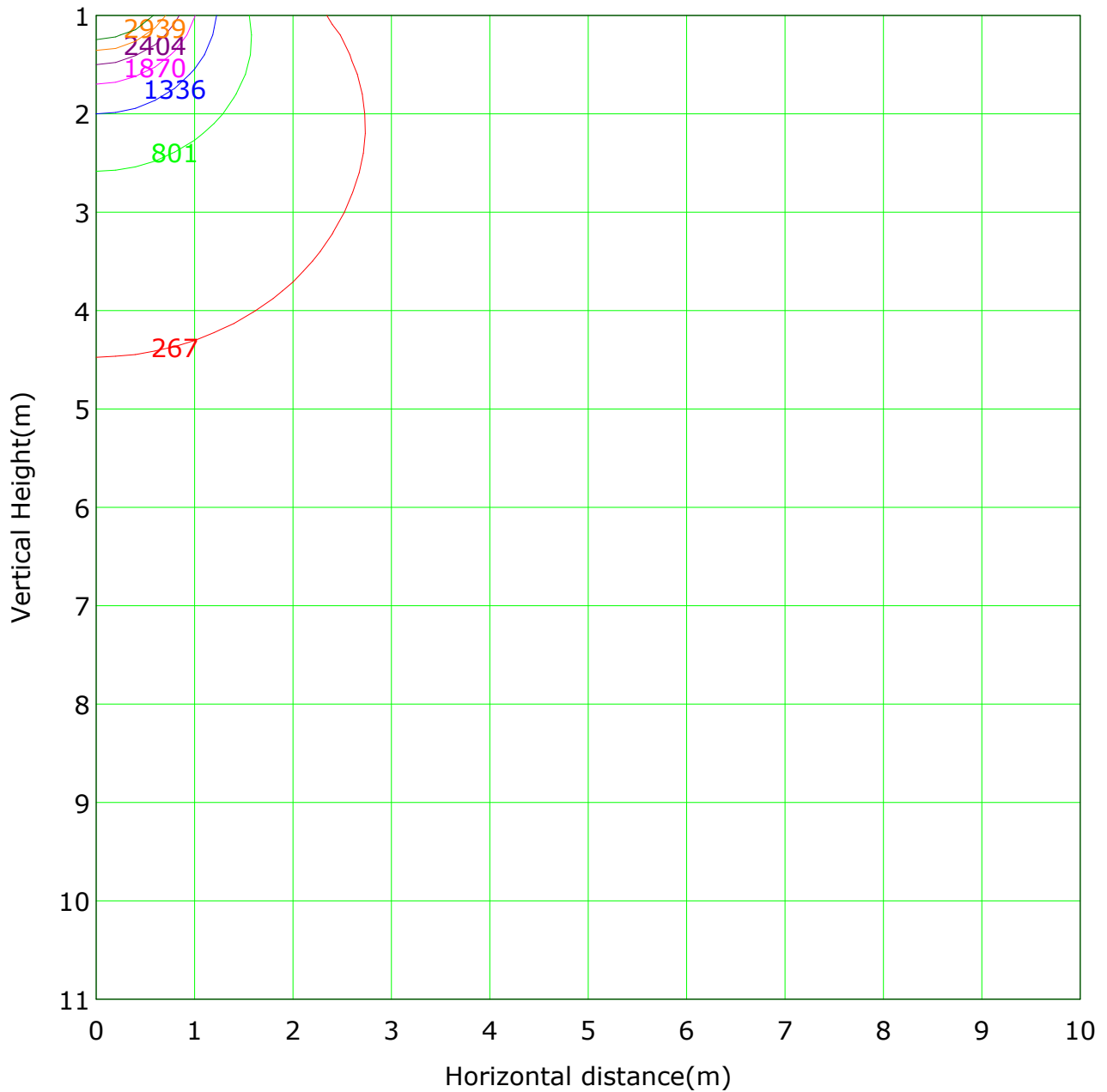
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5342.9 lx

(5%): 267.1 lx	(15%): 801.4 lx
(25%):1335.7 lx	(35%):1870.0 lx
(45%):2404.3 lx	(55%):2938.6 lx
(65%):3472.9 lx	

C Plane (°):0.0-360.0: 22.5

Test Lab:

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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	7875	50.1
FL (0°-30°)	2138	13.6
FM (30°-60°)	4180	26.6
FH (60°-80°)	1456	9.3
FVH (80°-90°)	101	0.6
BACK LIGHT	7685	48.9
BL (0°-30°)	2100	13.4
BM (30°-60°)	4111	26.1
BH (60°-80°)	1397	8.9
BVH (80°-90°)	76	0.5
UP LIGHT	163	1.0
UL (90°-100°)	59	0.4
UH (100°-180°)	104	0.7
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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