

Report No.: 1

Test Time: 28.01.2019 12:04

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 48LED 0,3A 40W 5000K

Lamp Description: LED

Luminous Width (mm): 55

Voltage: 221.7 V

Power: 34.13 W

Luminous Length (mm): 945

Luminous Height (mm): 90

Current: 0.158 A

Power Factor: 0.968

Photometric Results

CIE Class: Direct

Measurement Flux: 4282 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.2, 162.3, 161.3, 161.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.5, 109.4, 108.5, 108.9

Luminaire Efficacy Rating (LER): 125.51

Max. Intensity: 1533.92 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 4282.0 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1520.62 cd

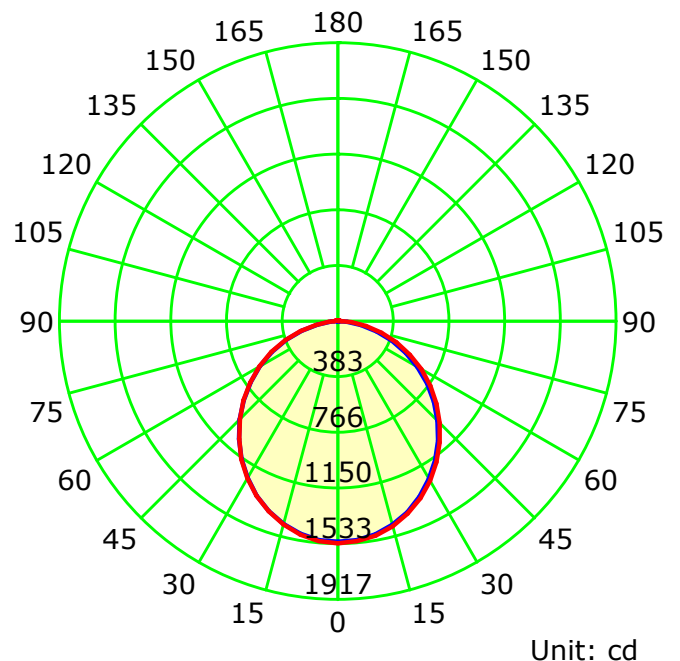
Pos of Max. Intensity: H112.5 V0

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

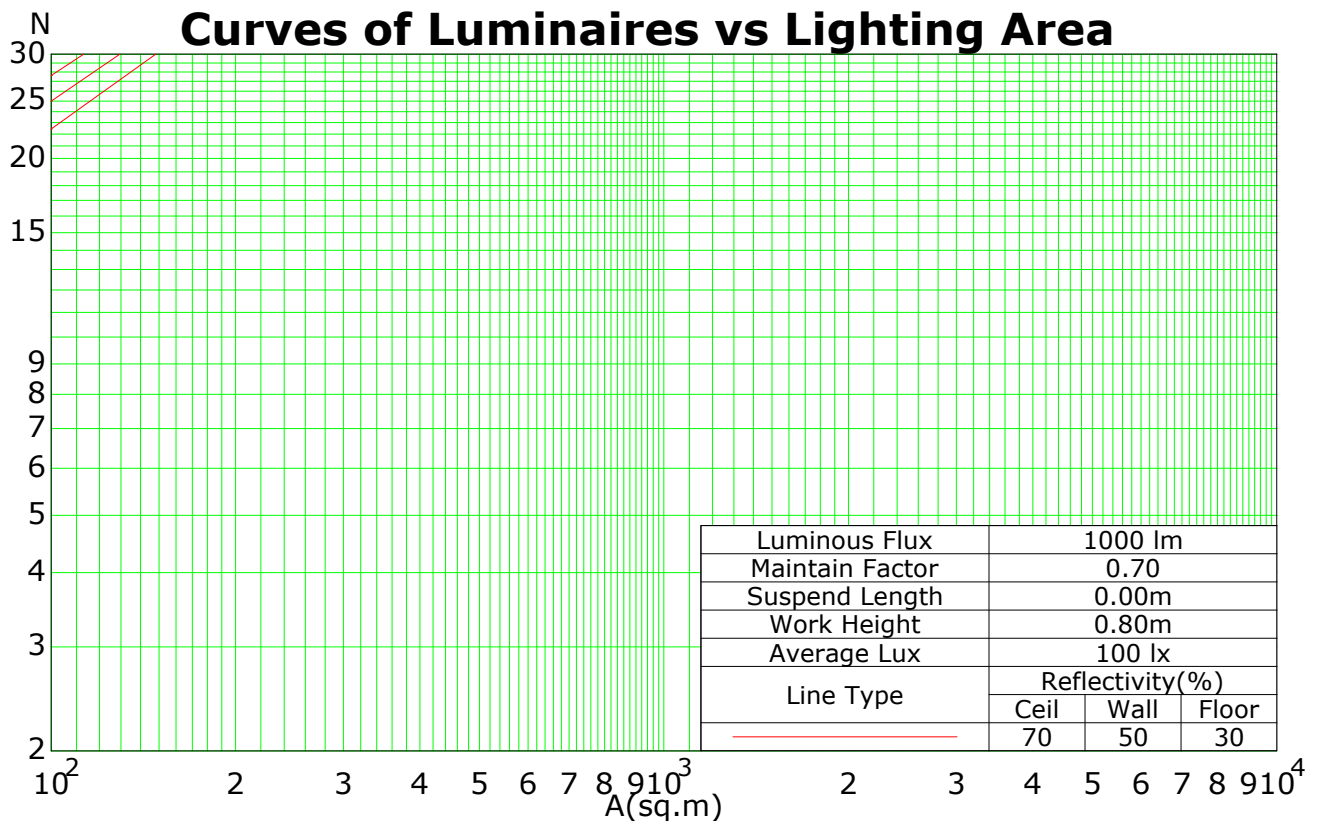
Humidity:

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	105	101	97	94	97	93	90	92	90	87	89	87	85	82
2	98	90	83	78	96	88	82	77	84	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	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	61	53	47	59	52	46	57	51	45	55	49	45	43
6	70	56	48	41	68	55	47	41	54	46	40	52	45	40	50	44	39	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	29
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

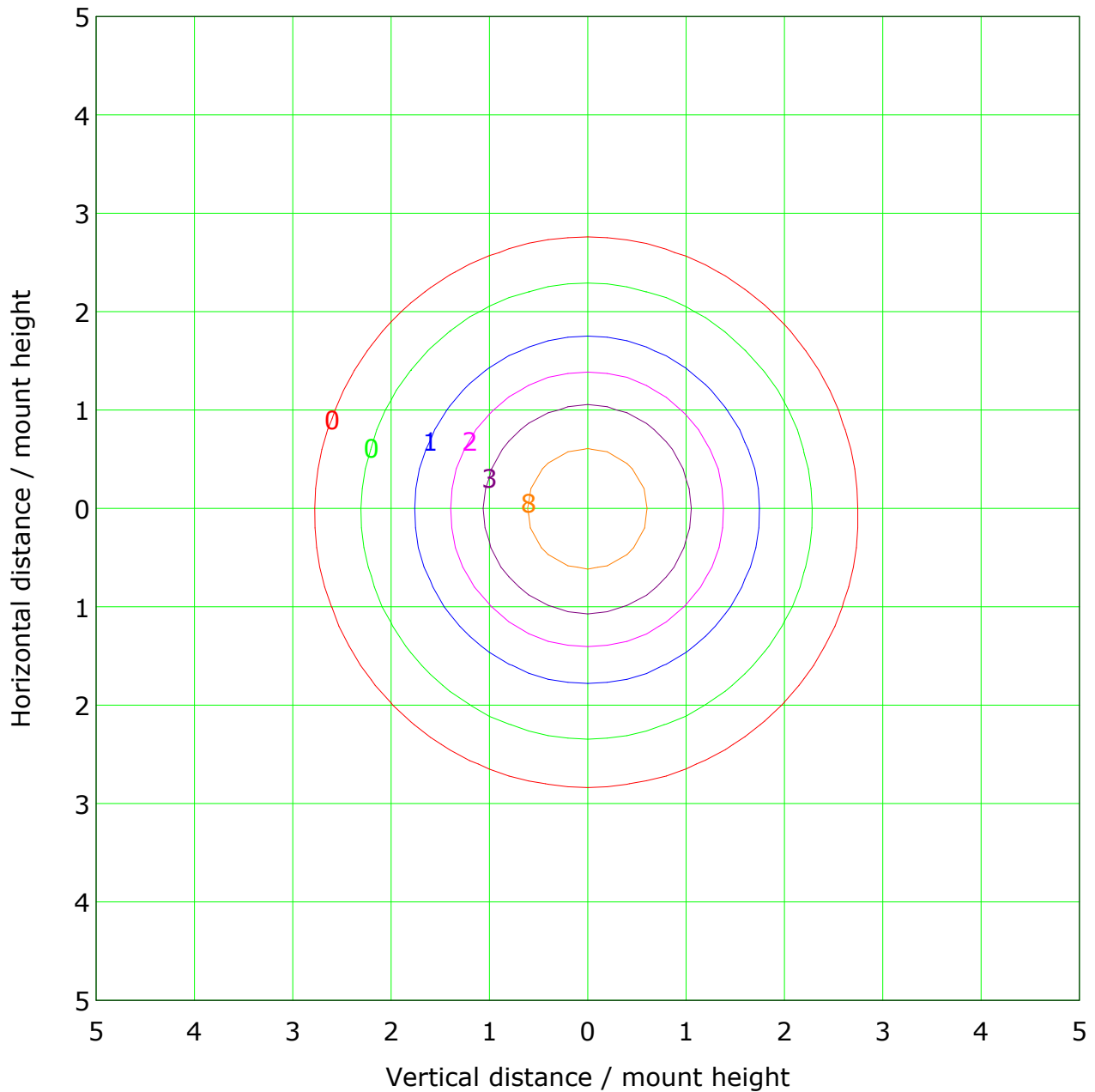
Spacing Criteria (0-180): 1.22
 Spacing Criteria (90-270): 1.23
 Spacing Criteria (Diagonal): 1.35



C Plane (°):0.0-360.0: 22.5
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Gamma Plane (°):0.0-180.0:5.0
 Test Device: LSG-1800B
 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 15.3 lx

(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.5 lx
(20%): 3.1 lx	(50%): 7.7 lx
(100%): 15.3 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

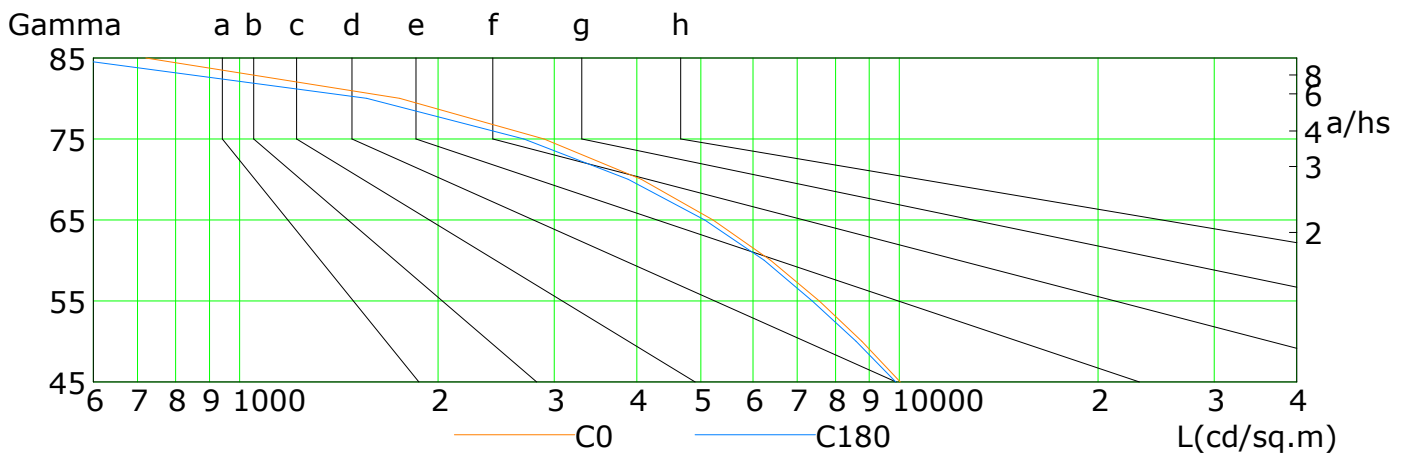
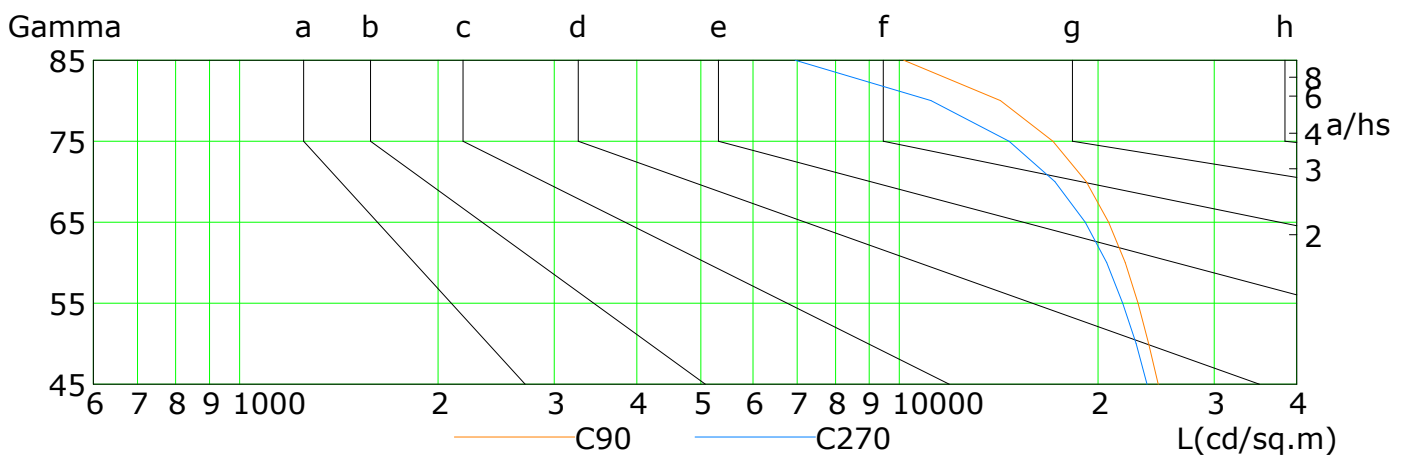
Humidity:

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	10033	8773	7563	6379	5217	4062	2894	1749	721
C90	24667	23866	22990	21984	20752	19201	17091	14221	10156
C180	9878	8598	7377	6242	5068	3880	2697	1558	543
C270	23725	22851	21795	20622	19122	17209	14658	11167	6954

C Plane (°):0.0-360.0: 22.5

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Test Type: TYPE C

Temperature:

Operator:

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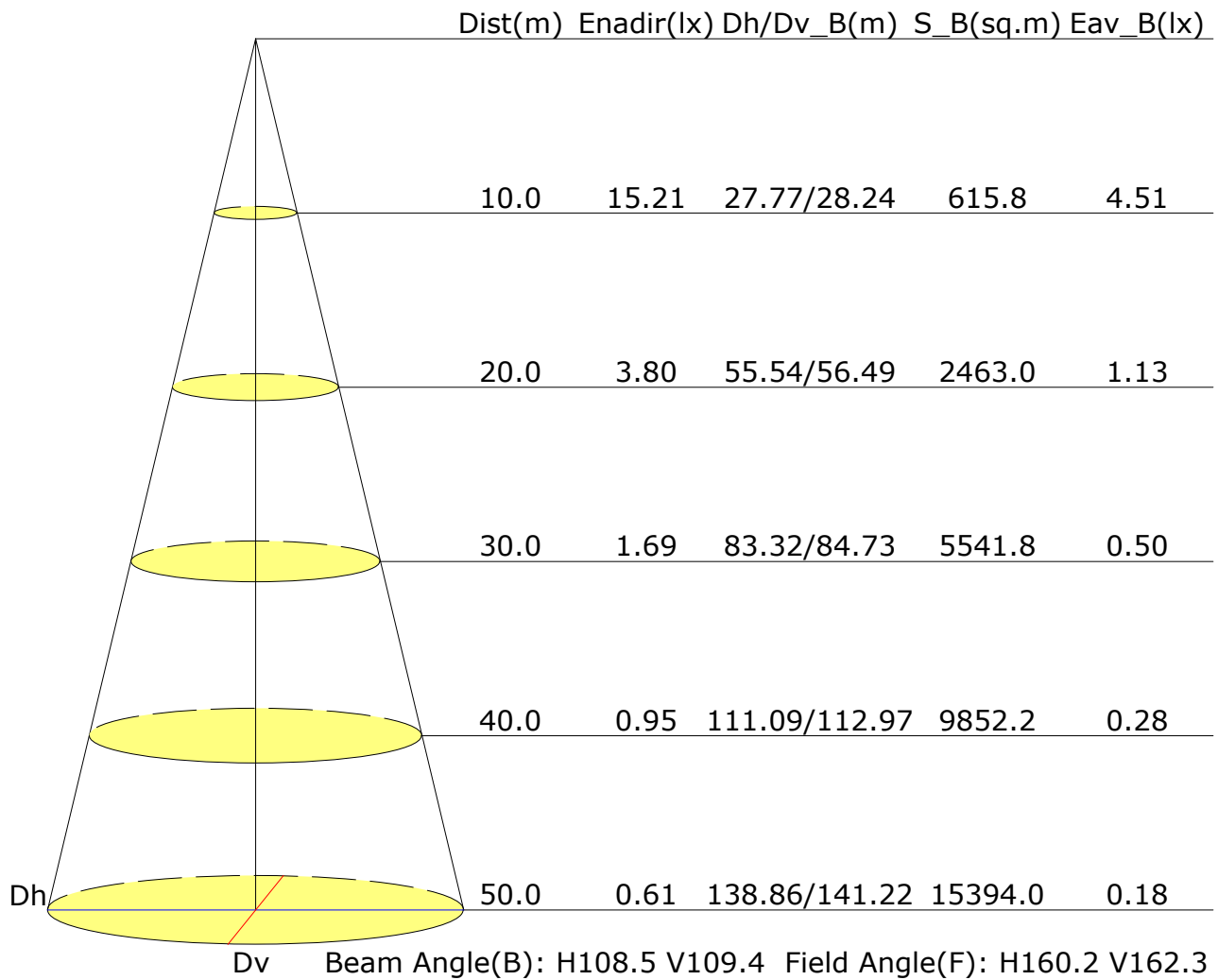
Test Device: LSG-1800B

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 (°):0.0-180.0:5.0

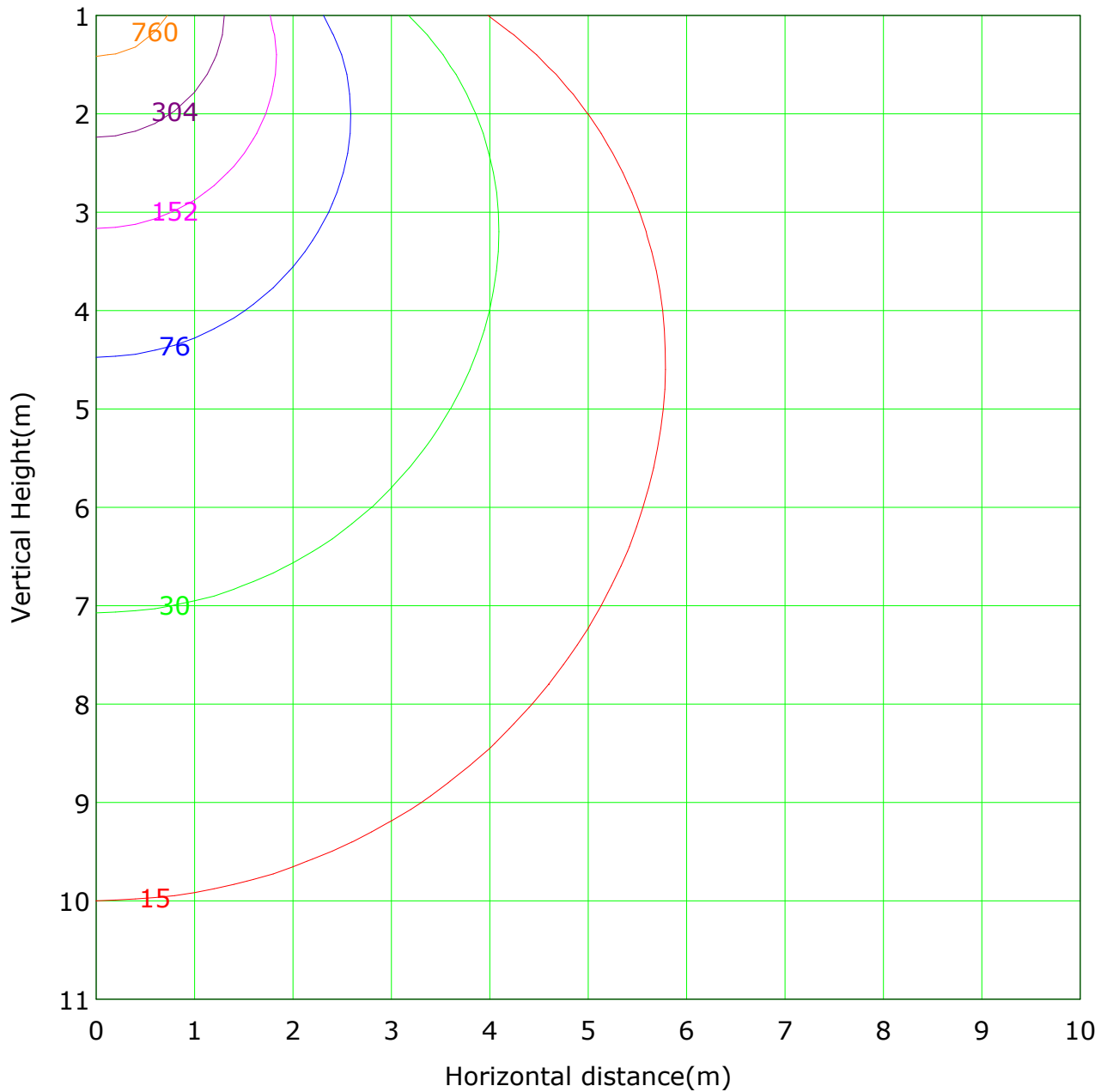
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1520.6 lx

(1%): 15.2 lx	(2%): 30.4 lx
(5%): 76.0 lx	(10%): 152.1 lx
(20%): 304.1 lx	(50%): 760.3 lx
(100%):1520.6 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	2148	50.2
FL (0°-30°)	588	13.7
FM (30°-60°)	1091	25.5
FH (60°-80°)	420	9.8
FVH (80°-90°)	49	1.1
BACK LIGHT	2075	48.5
BL (0°-30°)	583	13.6
BM (30°-60°)	1063	24.8
BH (60°-80°)	389	9.1
BVH (80°-90°)	39	0.9
UP LIGHT	59	1.4
UL (90°-100°)	18	0.4
UH (100°-180°)	40	0.9
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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