

Report No.: 1

Test Time: 15.02.2019 12:22

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 48LED 0,35A 55W 5000K opal

Lamp Description: LED

Luminous Width (mm): 55

Voltage: 221.8 V

Power: 53.7 W

Luminous Length (mm): 1245

Luminous Height (mm): 90

Current: 0.246 A

Power Factor: 0.986

Photometric Results

CIE Class: Direct

Measurement Flux: 6657.7 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.3, 163.1, 161.9, 161.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.3, 109.9, 109.8, 109.7

Luminaire Efficacy Rating (LER): 124.03

Max. Intensity: 2357.7 cd

S/MH(C0/C180): 1.23

Total Rated Lamp Lumens: 6657.7 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 2356.49 cd

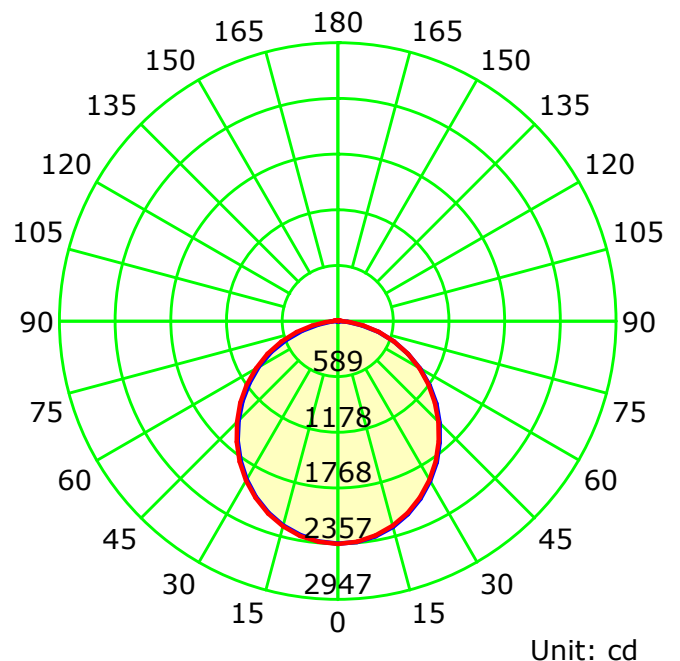
Pos of Max. Intensity: H90 V0

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

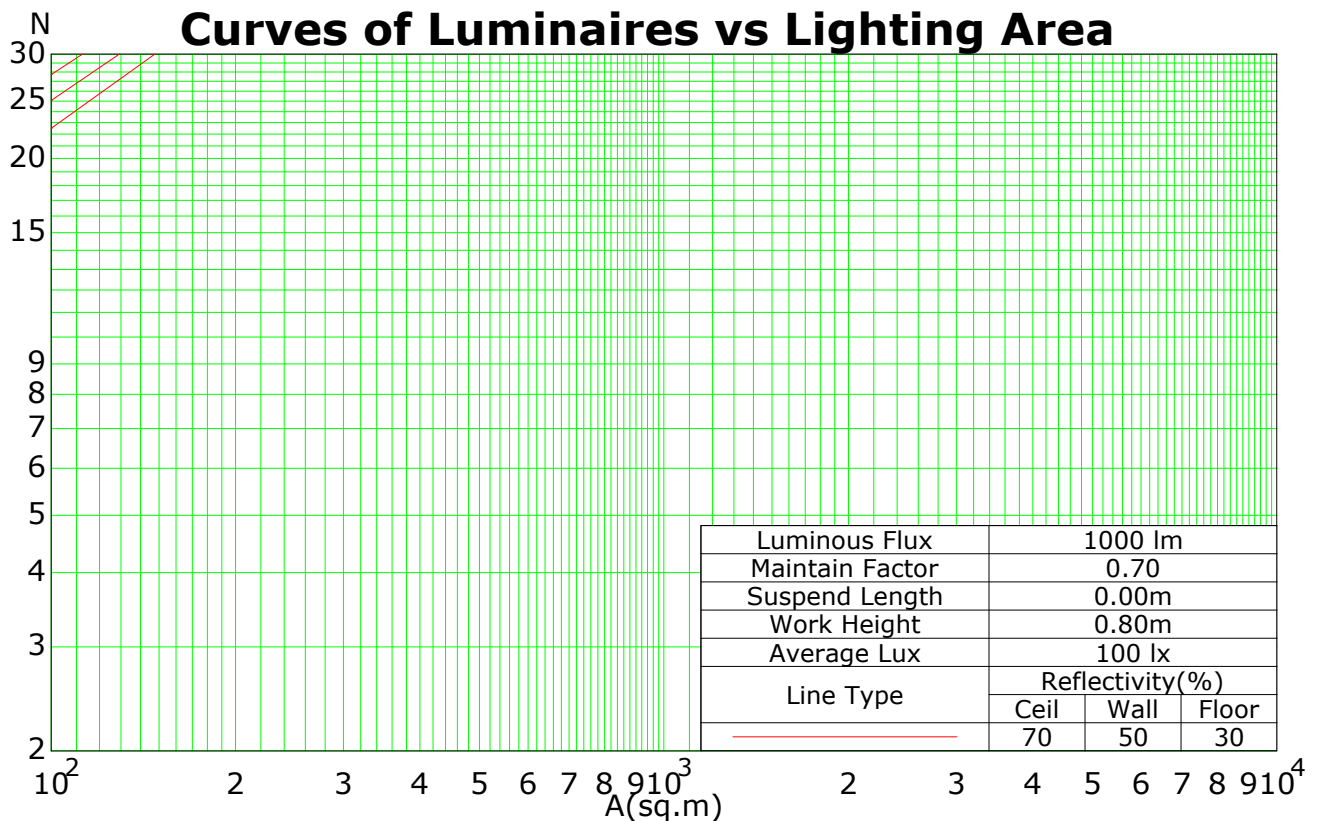
Humidity:

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	103	99	95	105	101	97	94	97	93	90	92	90	87	89	86	84	82
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	78	74	71	68
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	68	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	75	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	45	39	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

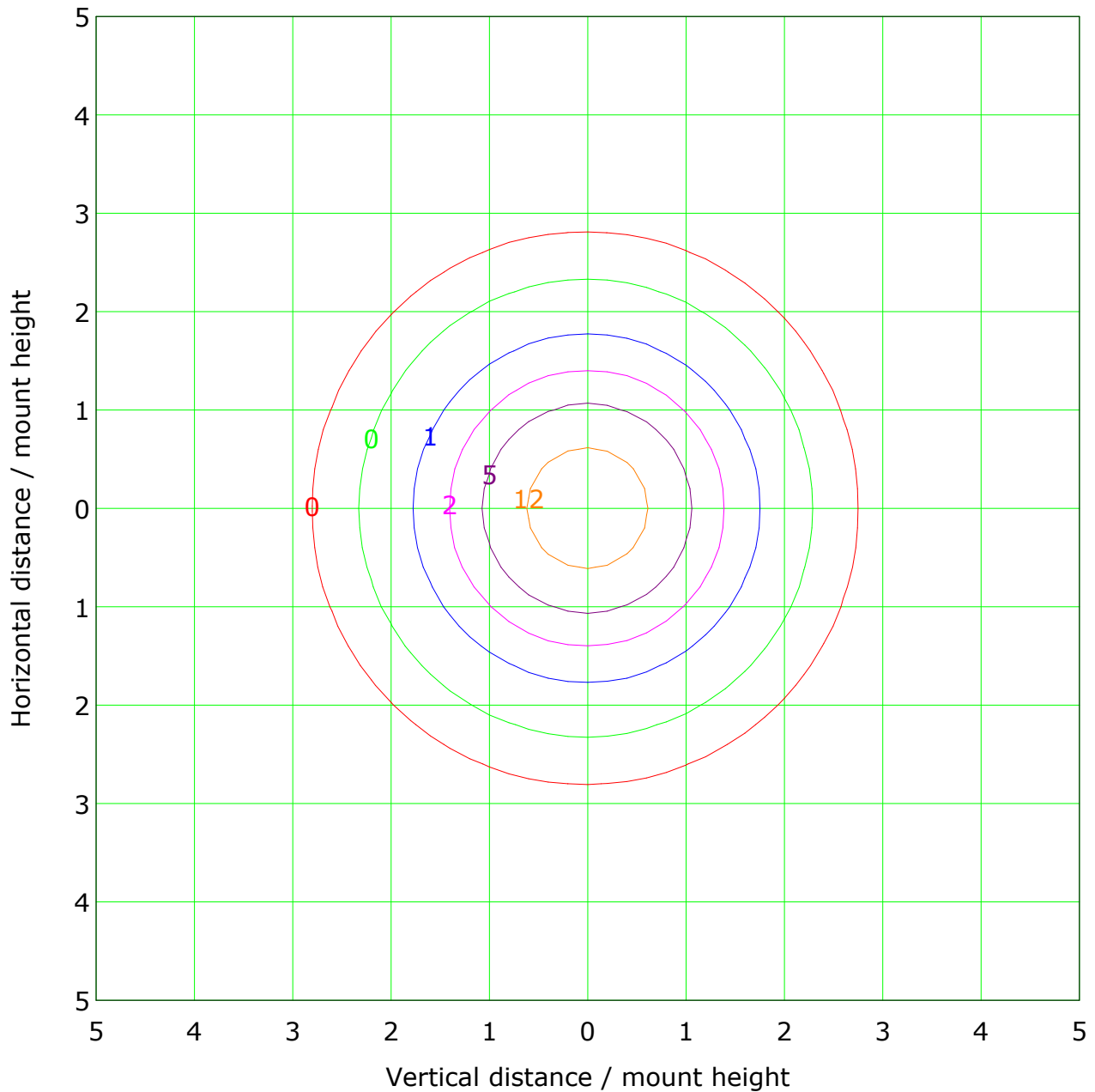
Spacing Criteria (0-180): 1.23
 Spacing Criteria (90-270): 1.23
 Spacing Criteria (Diagonal): 1.35



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

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 23.6 lx

(1%): 0.2 lx	(2%): 0.5 lx
(5%): 1.2 lx	(10%): 2.4 lx
(20%): 4.7 lx	(50%): 11.8 lx
(100%): 23.6 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

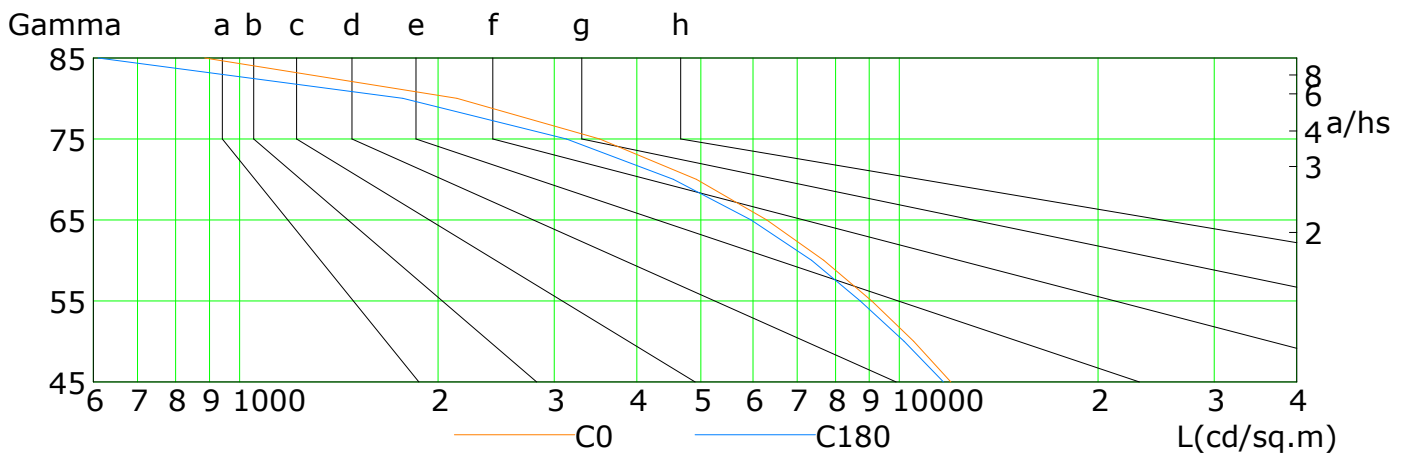
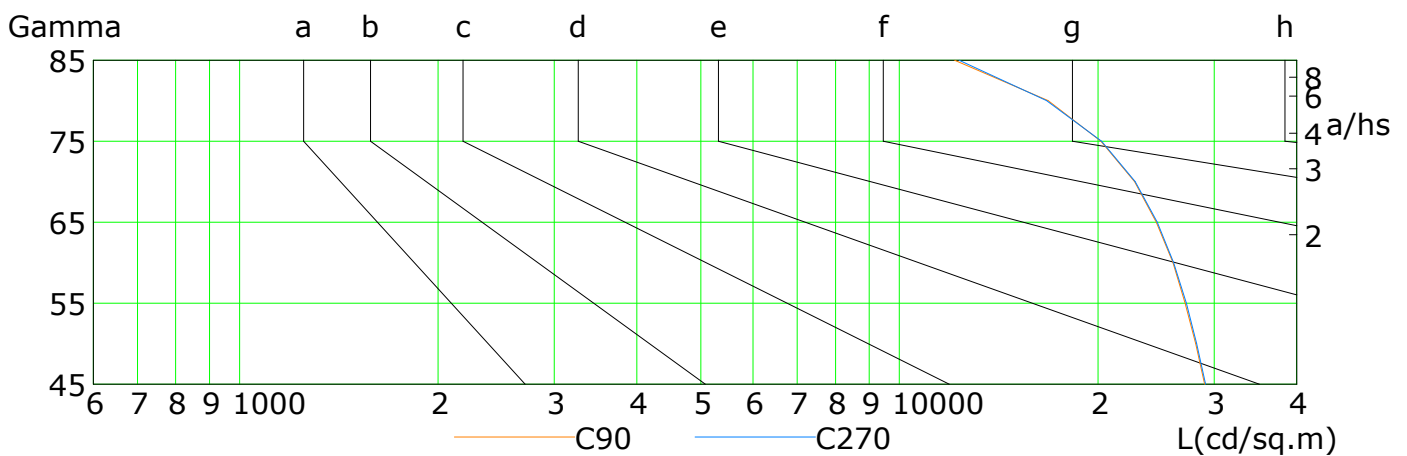
Humidity:

Inspector:

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	11962	10511	9076	7678	6293	4923	3515	2136	886
C90	29020	28115	27101	25967	24520	22721	20205	16797	12126
C180	11663	10167	8723	7362	5958	4543	3129	1768	611
C270	29124	28215	27225	26034	24604	22766	20241	16714	12322

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Test Type: TYPE C

Temperature:

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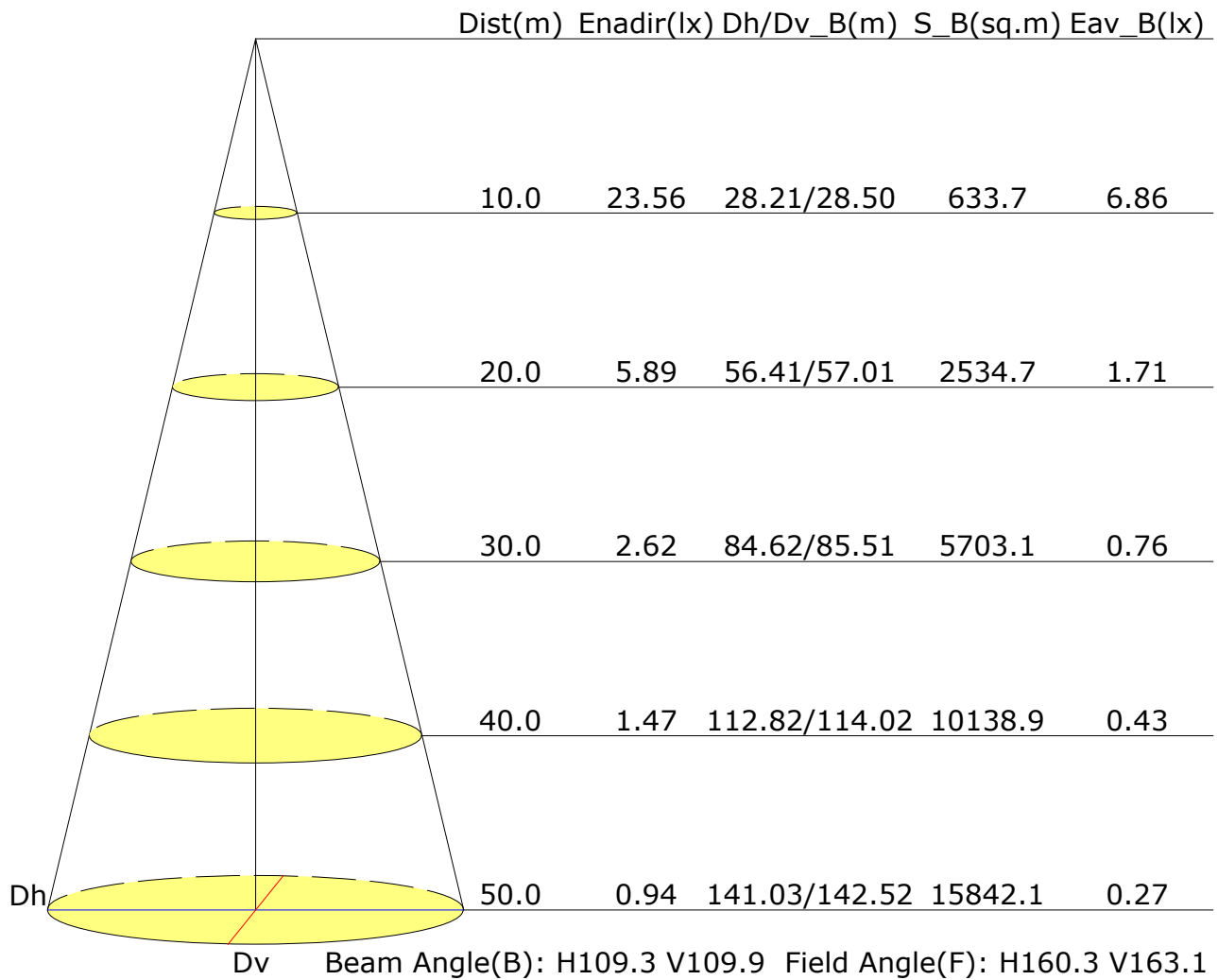
Test Device: LSG-1800B

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

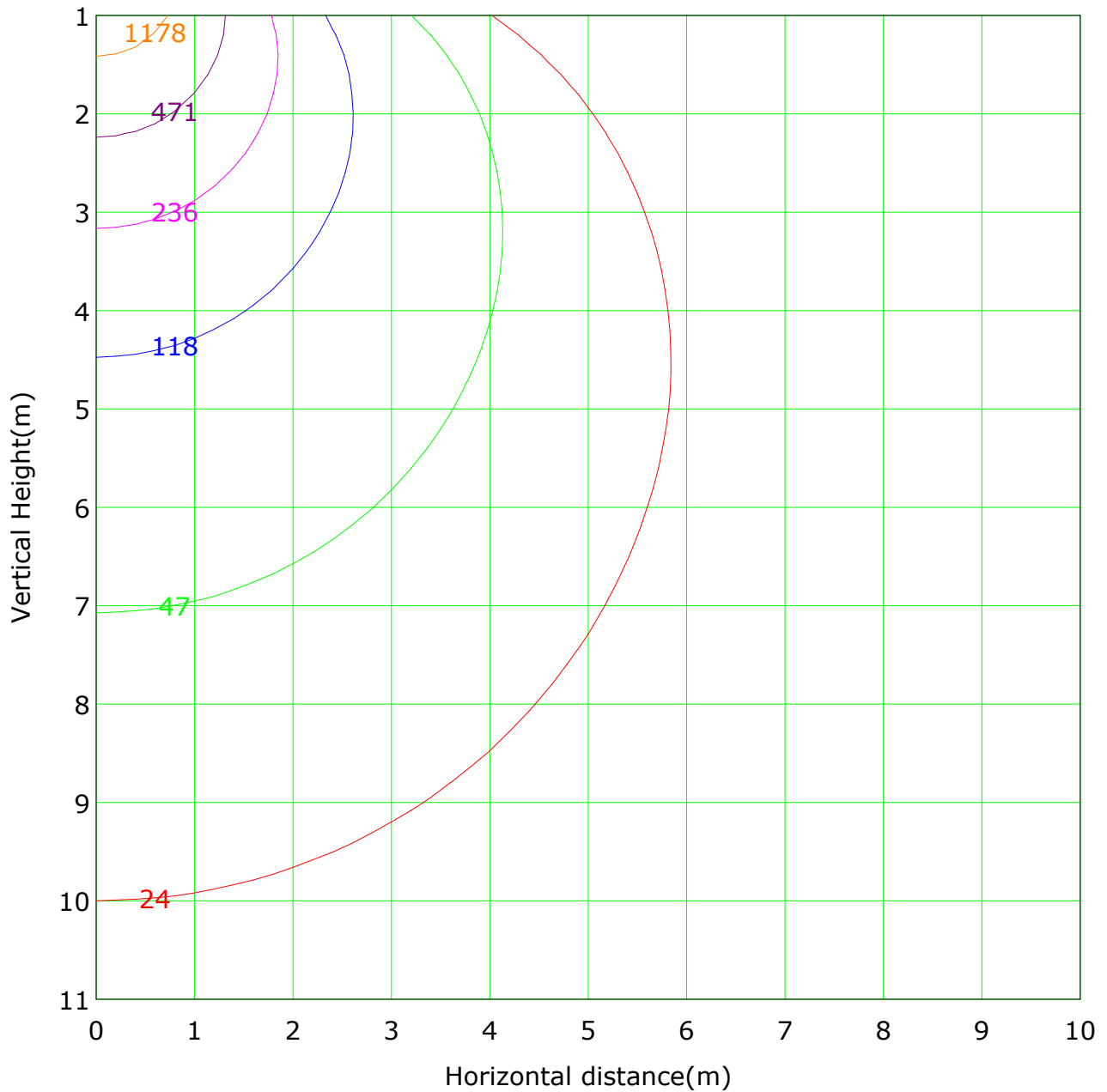
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2356.5 lx
— (1%): 23.6 lx — (2%): 47.1 lx
— (5%): 117.8 lx — (10%): 235.6 lx
— (20%): 471.3 lx — (50%): 1178.2 lx
— (100%): 2356.5 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	3280	49.3
FL (0°-30°)	903	13.6
FM (30°-60°)	1672	25.1
FH (60°-80°)	634	9.5
FVH (80°-90°)	71	1.1
BACK LIGHT	3284	49.3
BL (0°-30°)	904	13.6
BM (30°-60°)	1675	25.2
BH (60°-80°)	634	9.5
BVH (80°-90°)	71	1.1
UP LIGHT	94	1.4
UL (90°-100°)	31	0.5
UH (100°-180°)	64	1.0
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U2 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U2 G1

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