

Report No.: 1

Test Time: 13.02.2019 10:44

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 595 40LED 0,32A 36W 4000K

Lamp Description: LED

Luminous Width (mm): 595

Voltage: 221.8 V

Power: 36.8 W

Luminous Length (mm): 595

Luminous Height (mm): 80

Current: 0.171 A

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Measurement Flux: 3712.7 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.1, 164.9, 165.1, 165.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.9, 112.7, 112.9, 112.9

Luminaire Efficacy Rating (LER): 100.94

Max. Intensity: 1268.27 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 3712.7 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1268.26 cd

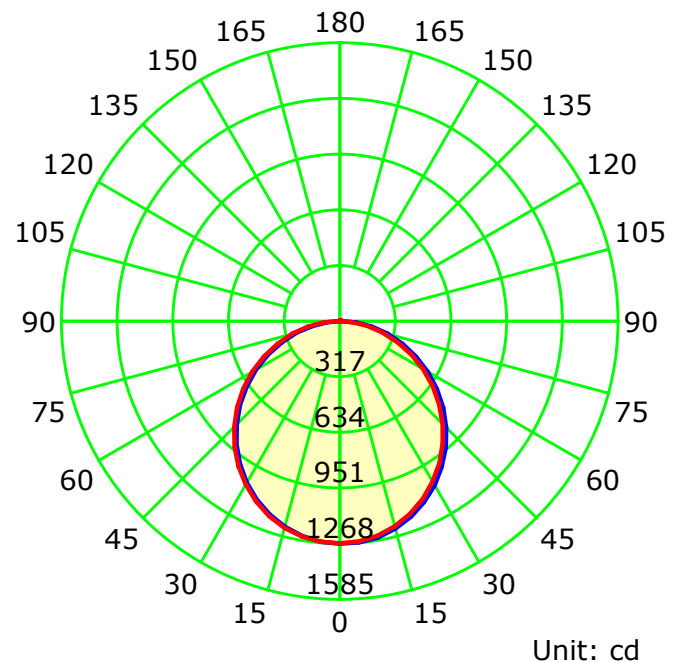
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.25

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

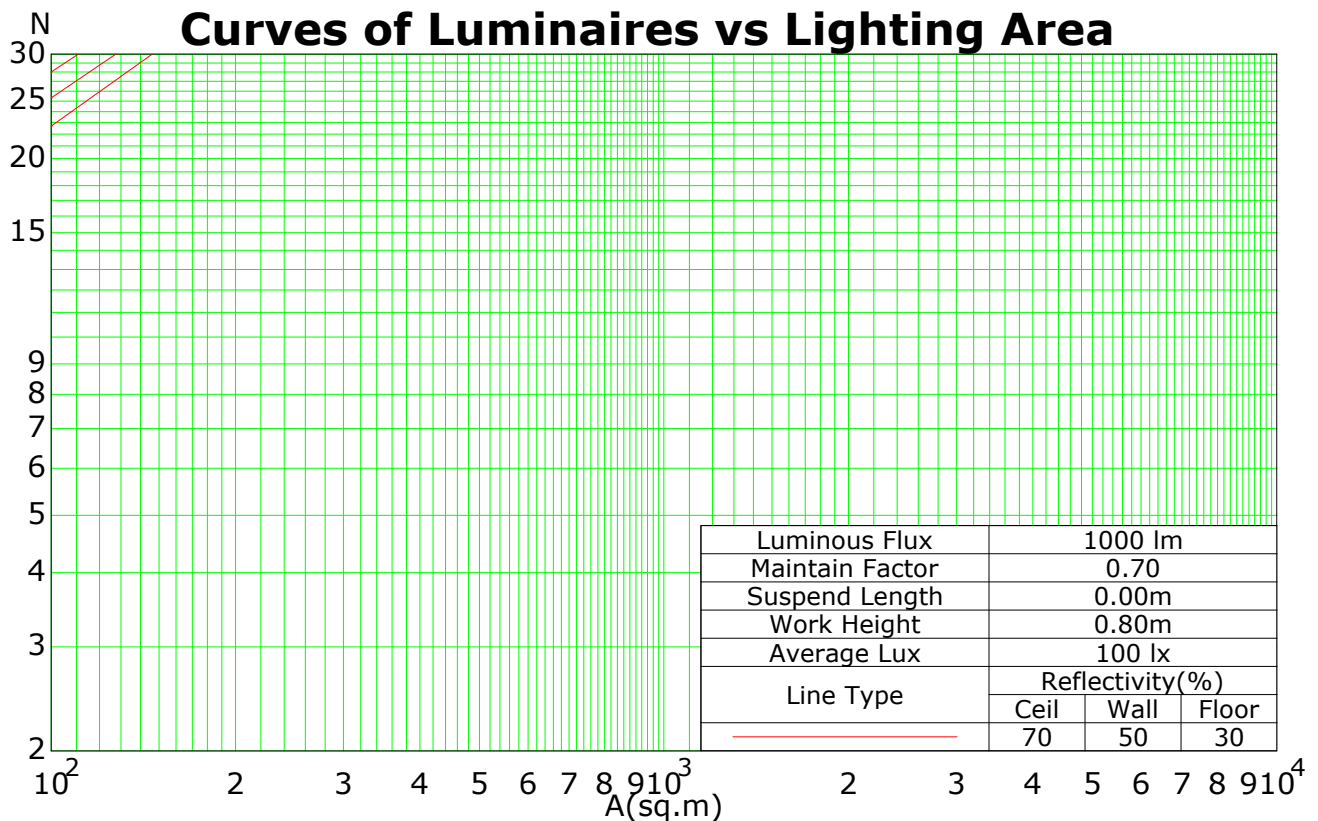
Humidity:

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	108	103	99	95	105	101	97	93	96	93	90	92	90	87	89	86	84	82
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	77	74	70	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	60	68	63	59	57
4	82	69	61	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

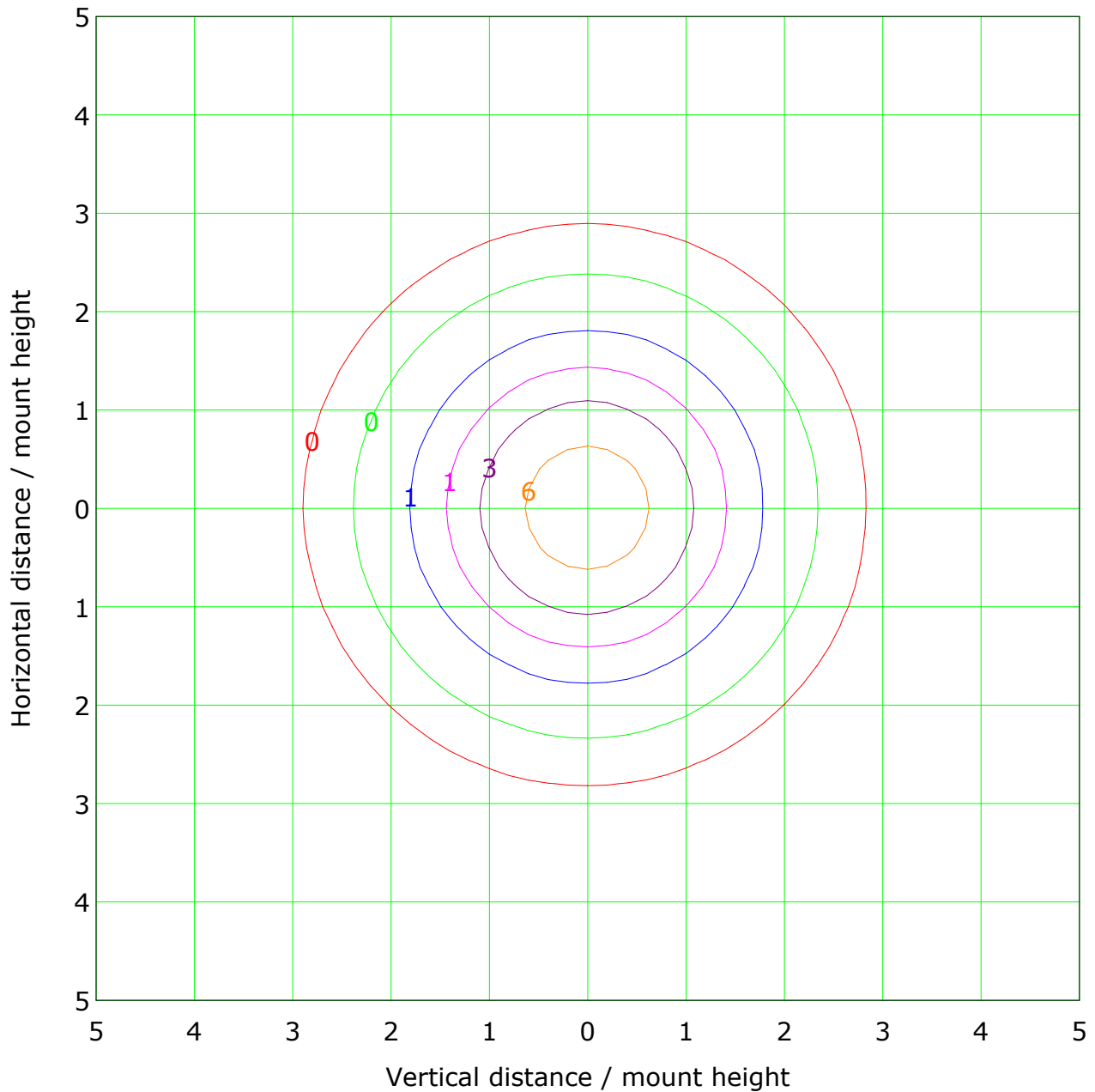
Spacing Criteria (0-180): 1.25
 Spacing Criteria (90-270): 1.25
 Spacing Criteria (Diagonal): 1.37



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 Test Device: LSG-1800B
 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 12.7 lx

(1%): 0.1 lx	(2%): 0.3 lx
(5%): 0.6 lx	(10%): 1.3 lx
(20%): 2.5 lx	(50%): 6.3 lx
(100%): 12.7 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

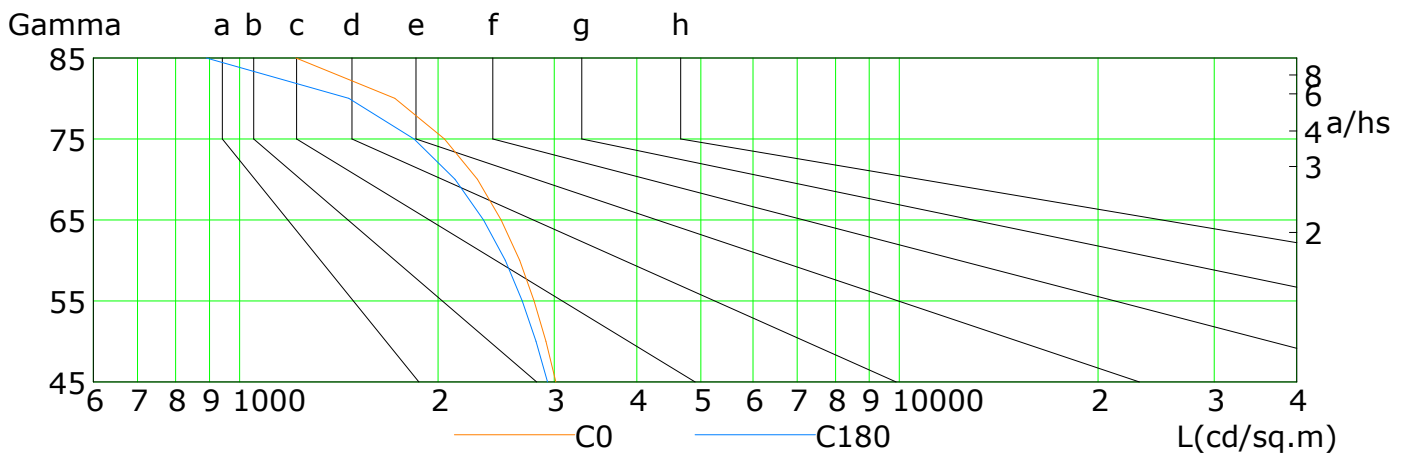
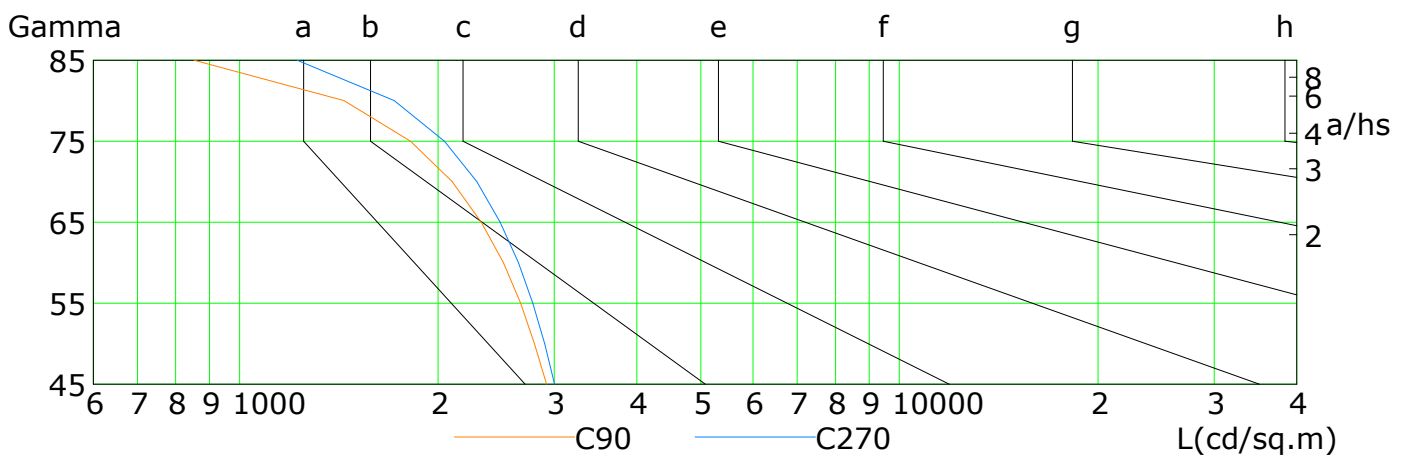
Humidity:

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	3016	2912	2794	2657	2491	2293	2044	1719	1218
C90	2919	2798	2668	2511	2325	2101	1815	1439	854
C180	2929	2813	2681	2526	2343	2122	1838	1463	890
C270	3002	2898	2781	2645	2482	2289	2044	1715	1223

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Test Type: TYPE C

Temperature:

Operator:

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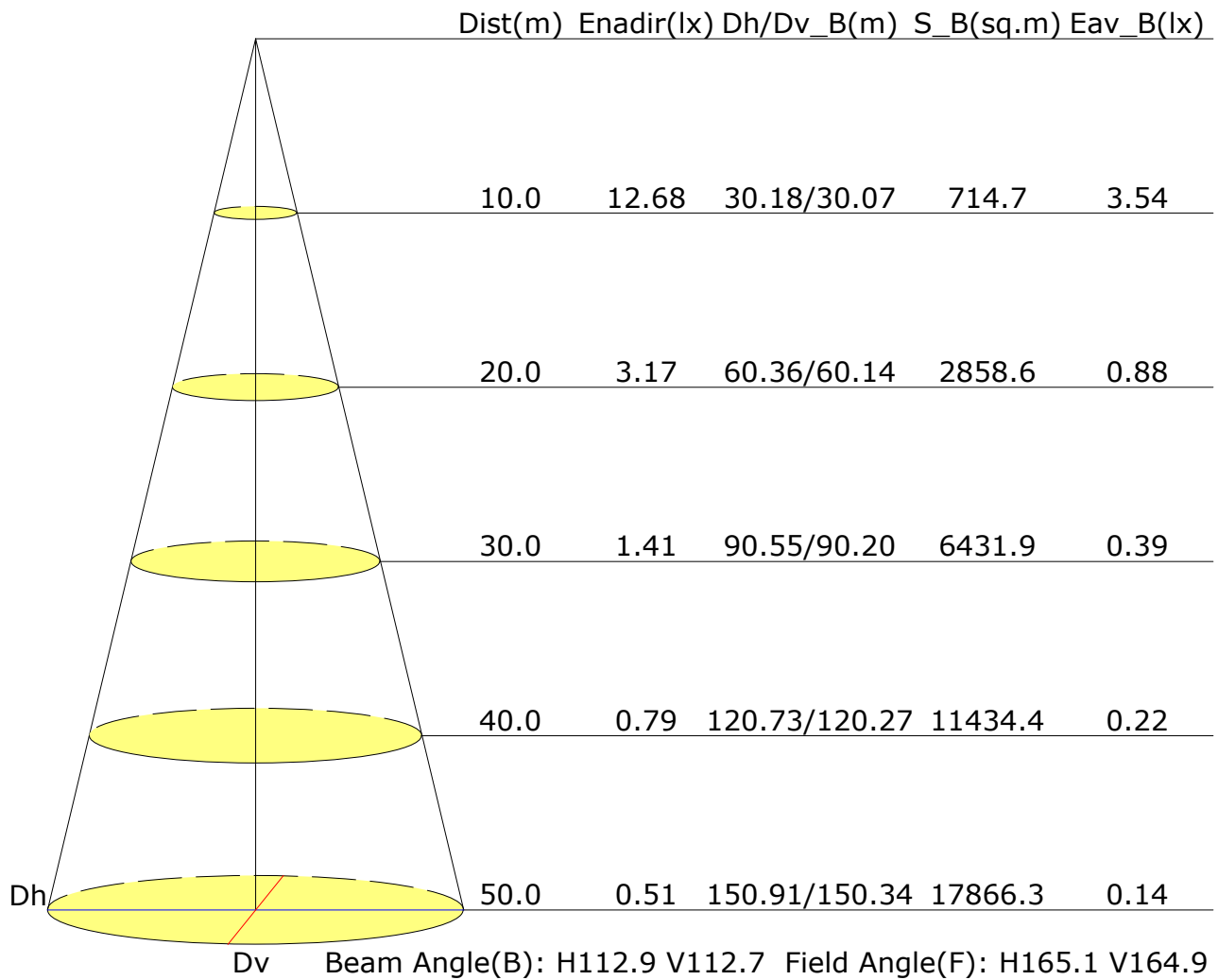
Test Device: LSG-1800B

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

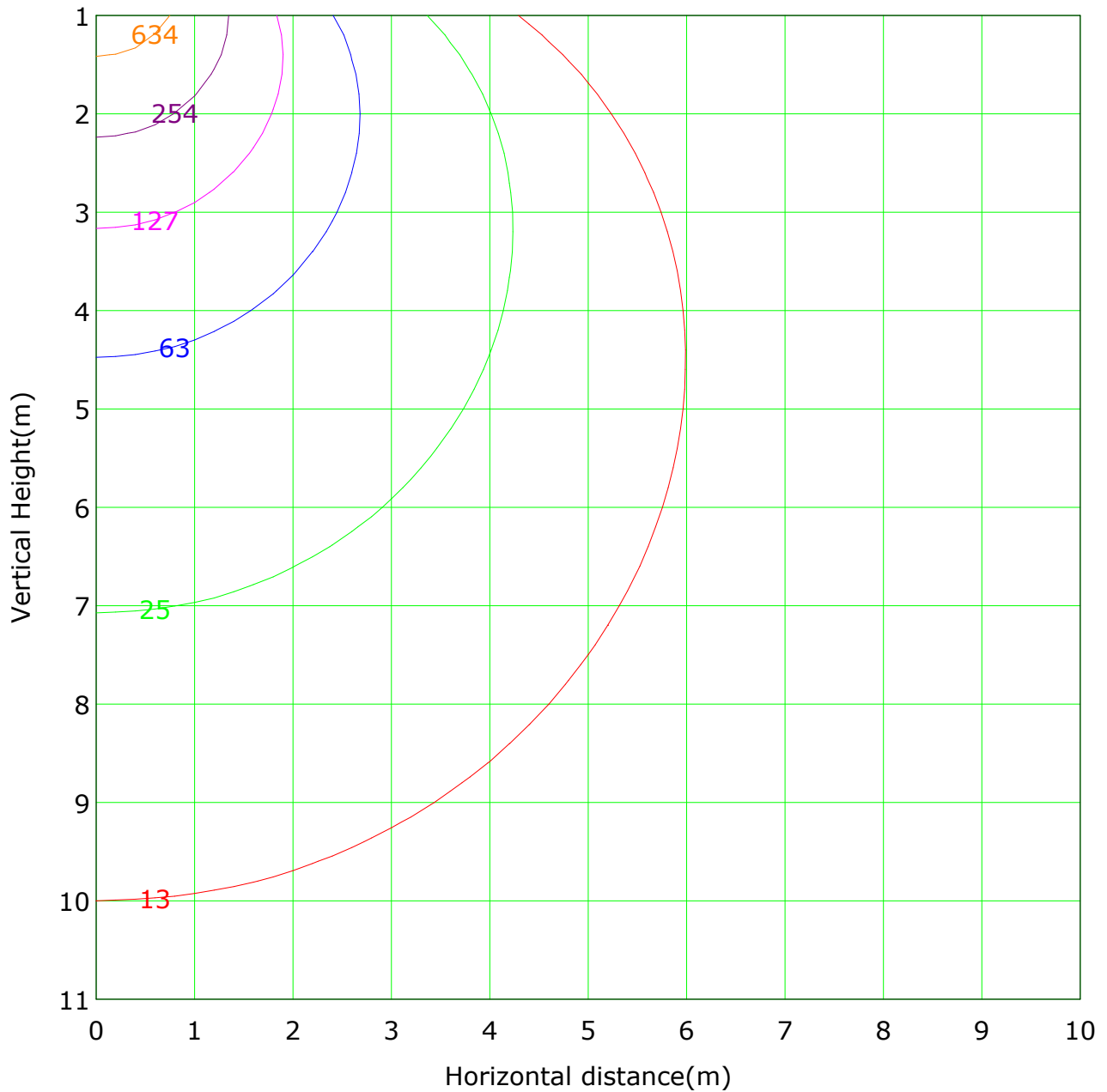
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1268.3 lx
— (1%): 12.7 lx — (2%): 25.4 lx
— (5%): 63.4 lx — (10%): 126.8 lx
— (20%): 253.7 lx — (50%): 634.1 lx
— (100%):1268.3 lx

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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	1820	49.0
FL (0°-30°)	490	13.2
FM (30°-60°)	926	24.9
FH (60°-80°)	362	9.8
FVH (80°-90°)	43	1.1
BACK LIGHT	1866	50.3
BL (0°-30°)	493	13.3
BM (30°-60°)	942	25.4
BH (60°-80°)	381	10.2
BVH (80°-90°)	51	1.4
UP LIGHT	26	0.7
UL (90°-100°)	5	0.1
UH (100°-180°)	22	0.6
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U2 G1

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