

Report No.: 1

Test Time: 30.01.2019 11:52

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 595 24LED 0,3A 32W 5000K

Lamp Description: LED

Luminous Length (mm): 595 mm

Luminous Height (mm): 35 mm

Current: 0.148 A

Power Factor: 0.970

Number of Lamps: 1

Luminous Width (mm): 595 mm

Voltage: 221.9 V

Power: 31.89 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4400 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.1, 156.7, 156.5, 156.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.6, 115.7, 115.7, 115.5

Luminaire Efficacy Rating (LER): 138.03

Max. Intensity: 1513.74 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 4400.0 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1513.74 cd

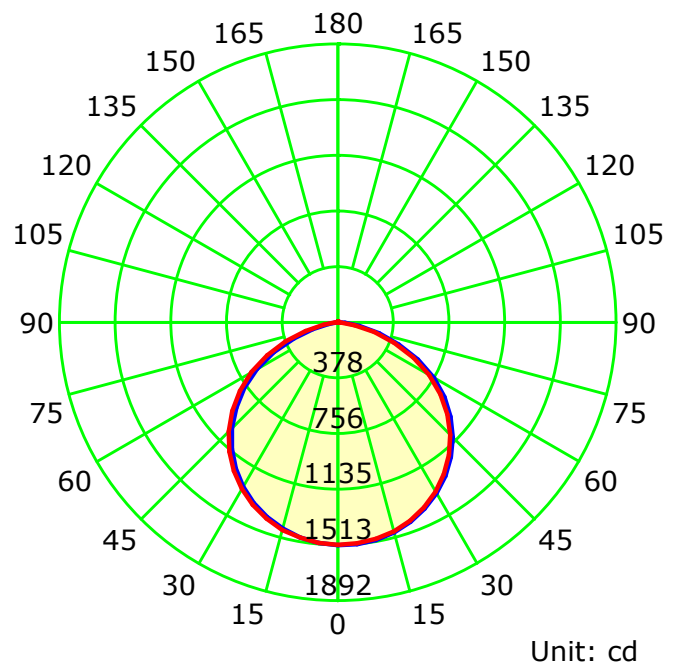
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.29

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

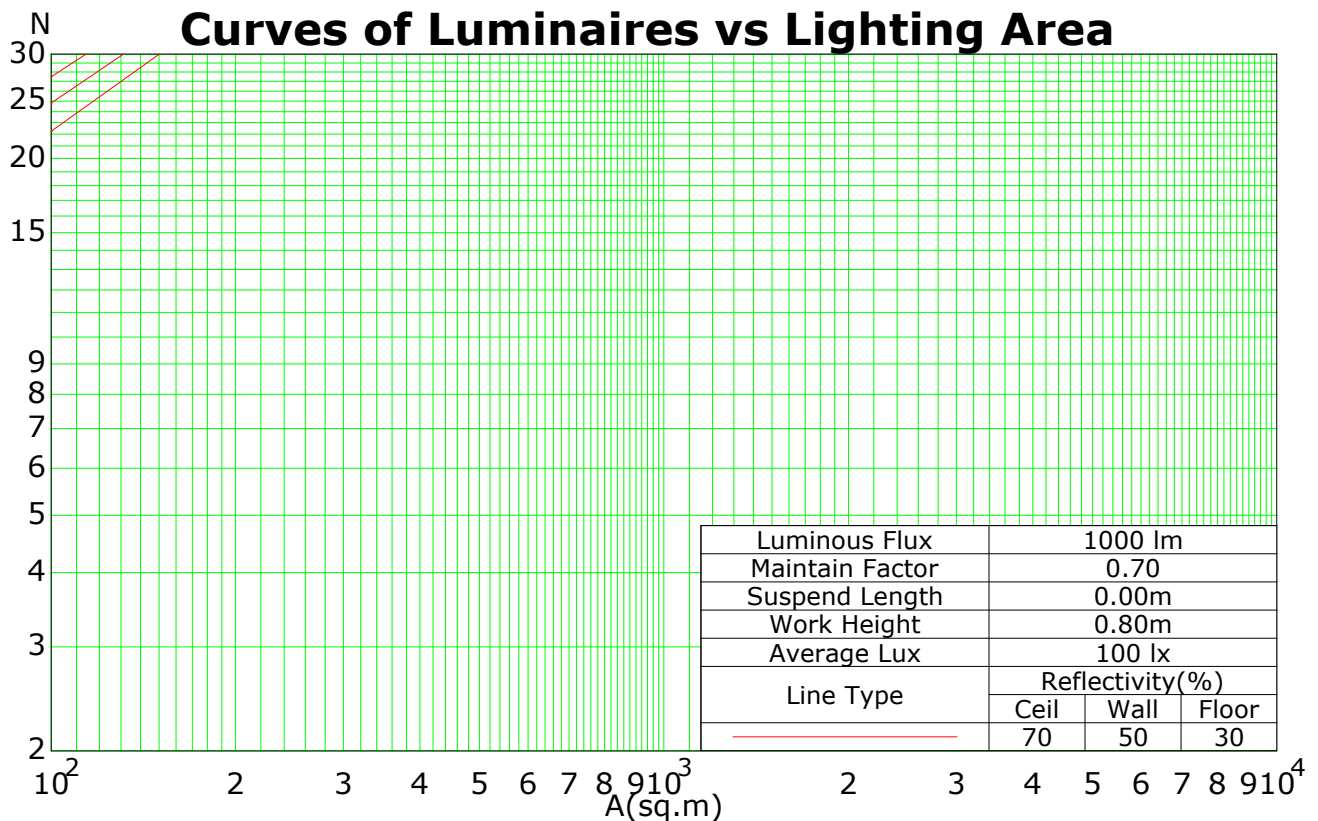
Humidity:

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	102	102	102	99
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

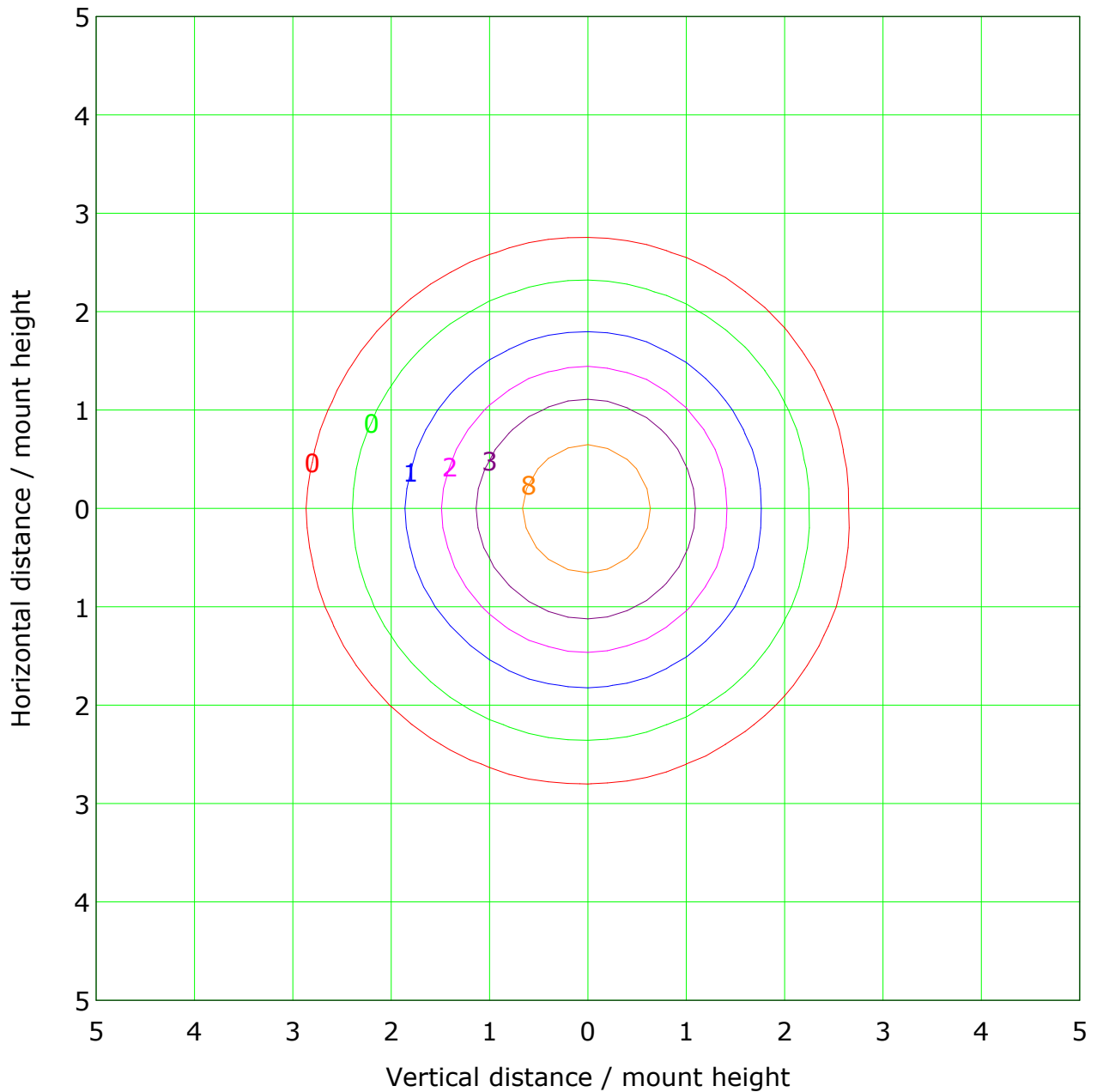
Spacing Criteria (0-180): 1.29
 Spacing Criteria (90-270): 1.29
 Spacing Criteria (Diagonal): 1.41



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

IsoLux Plot



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

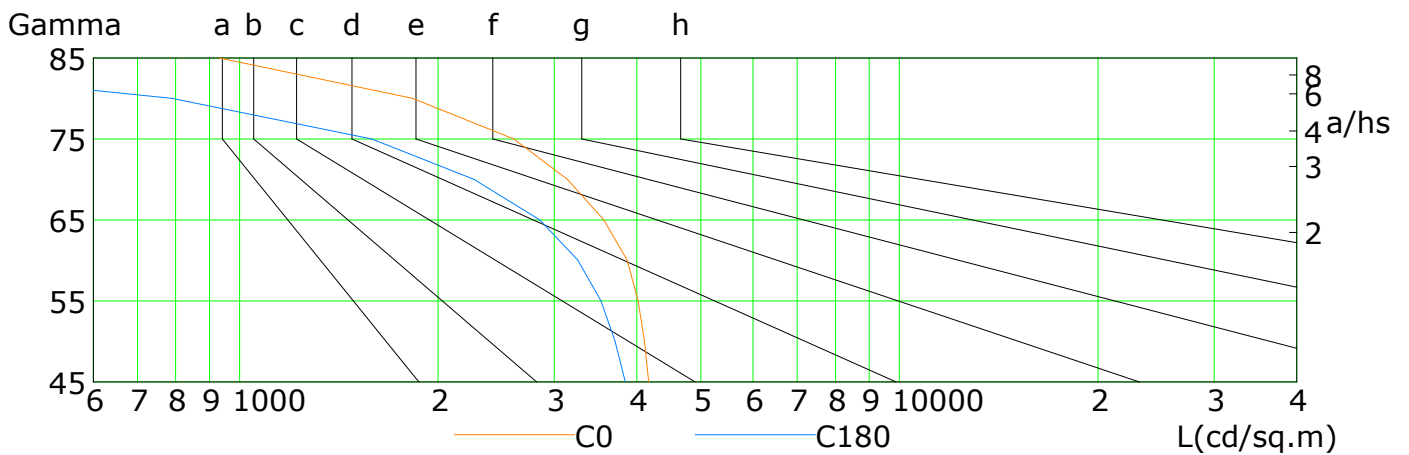
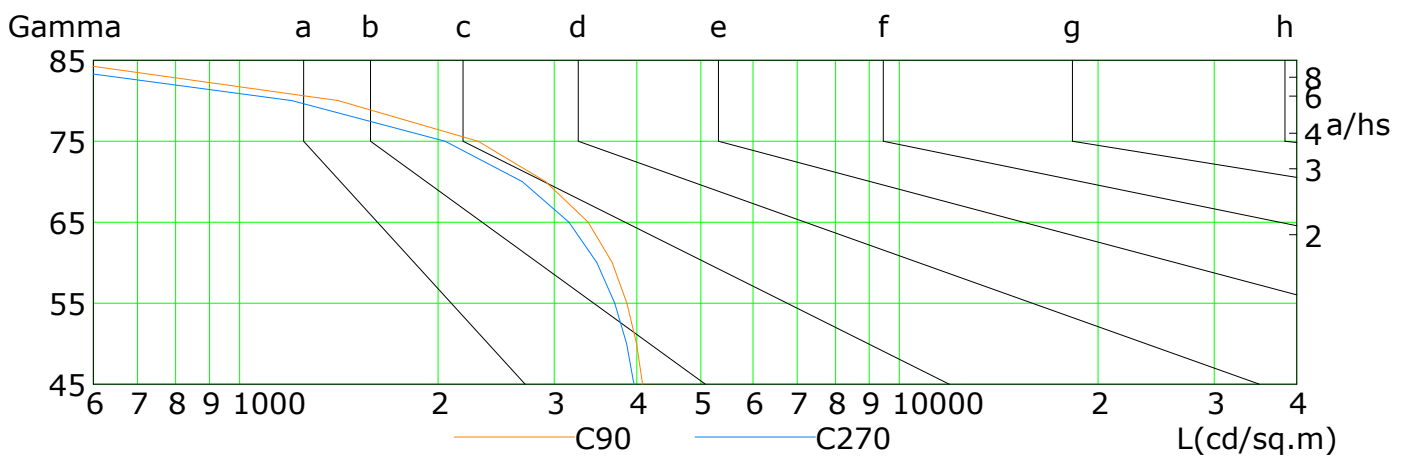
Humidity:

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	4168	4110	4020	3868	3566	3138	2605	1827	932
C90	4081	3997	3864	3672	3375	2911	2299	1411	520
C180	3844	3707	3530	3258	2851	2266	1586	789	203
C270	3962	3857	3703	3479	3158	2683	2049	1200	421

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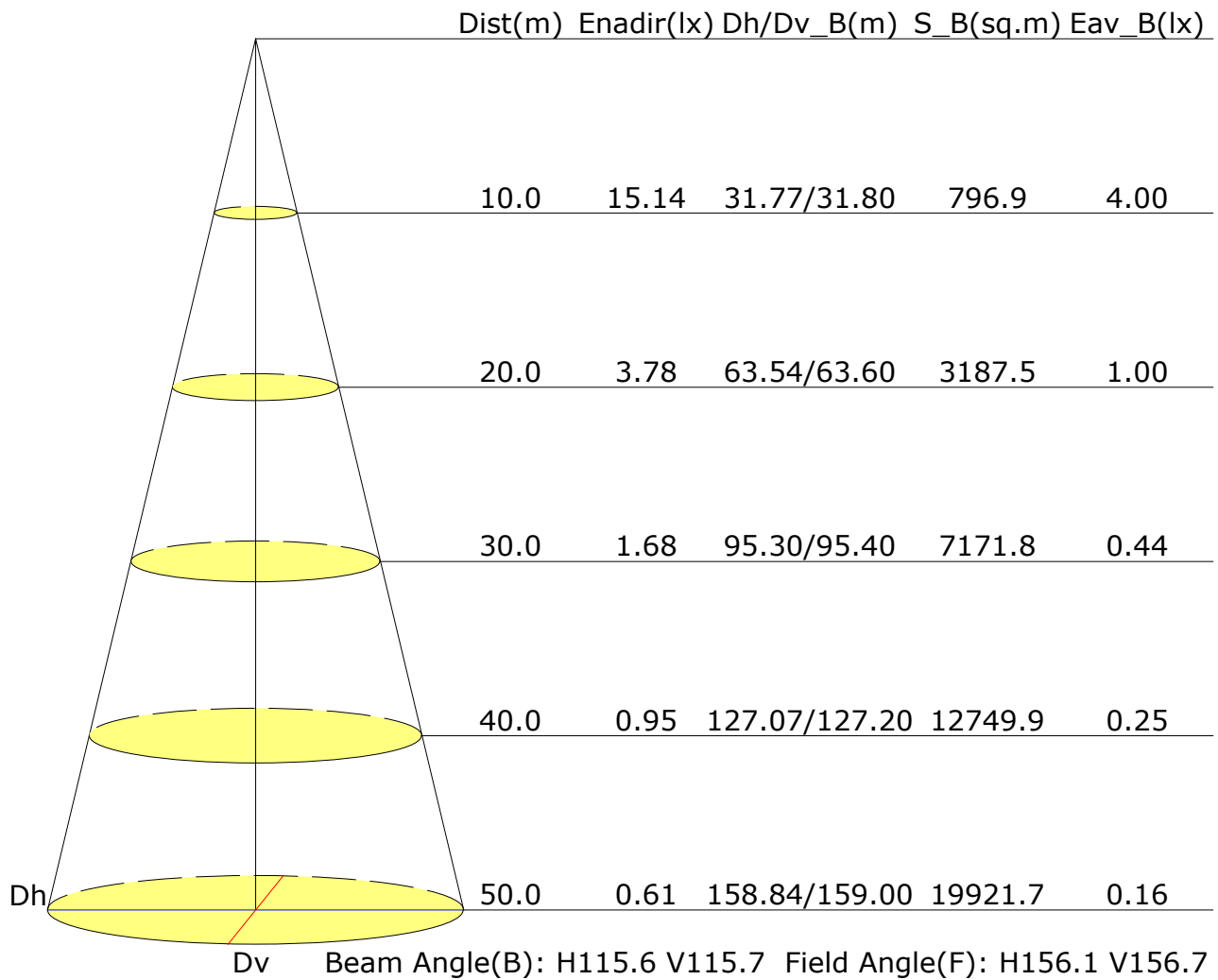
Test Device: LSG-1800B

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:

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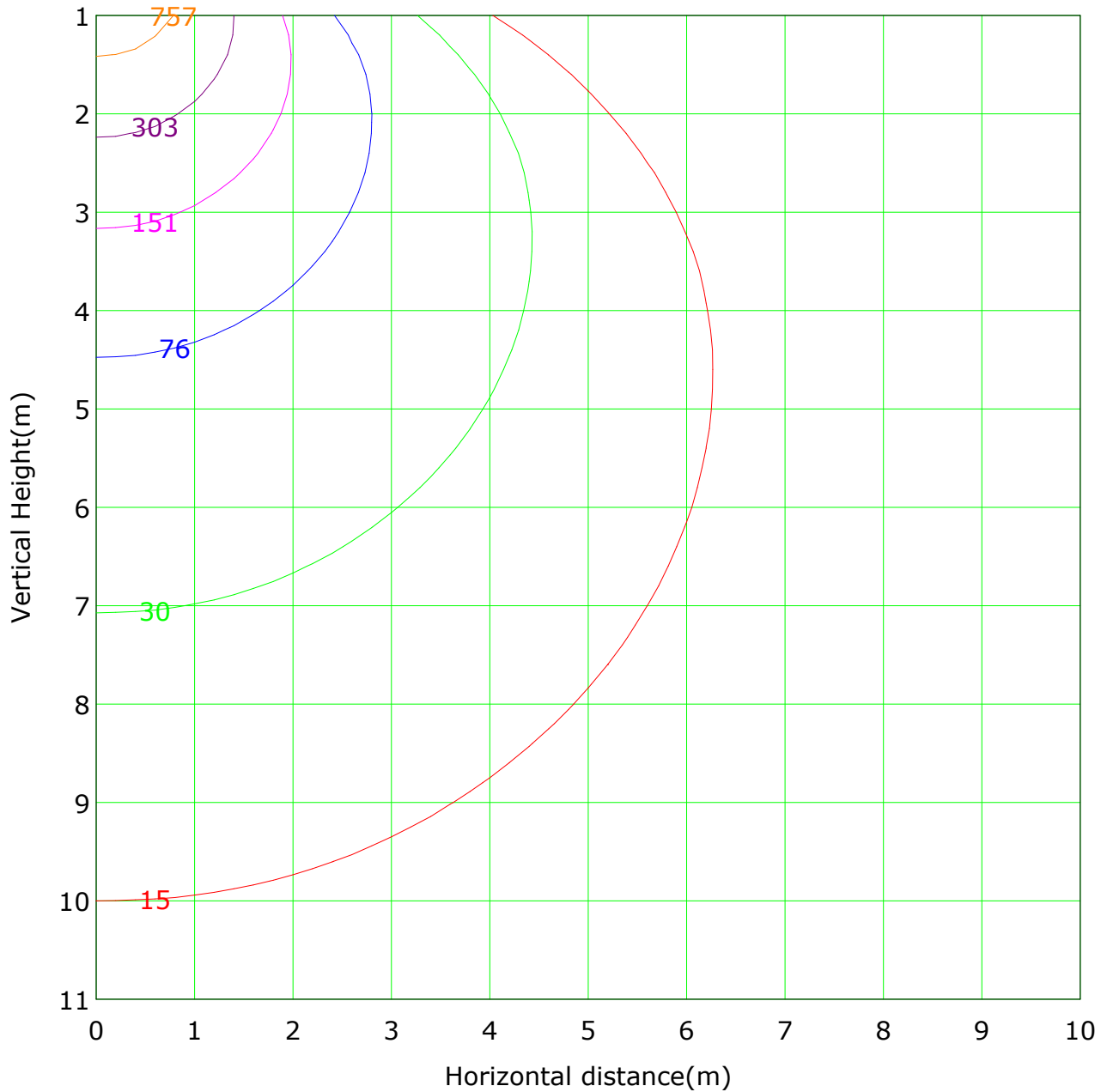
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1513.7 lx
— (1%): 15.1 lx — (2%): 30.3 lx
— (5%): 75.7 lx — (10%): 151.4 lx
— (20%): 302.7 lx — (50%): 756.9 lx
— (100%):1513.7 lx

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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	2215	50.3
FL (0°-30°)	598	13.6
FM (30°-60°)	1183	26.9
FH (60°-80°)	410	9.3
FVH (80°-90°)	23	0.5
BACK LIGHT	2159	49.1
BL (0°-30°)	594	13.5
BM (30°-60°)	1157	26.3
BH (60°-80°)	388	8.8
BVH (80°-90°)	21	0.5
UP LIGHT	26	0.6
UL (90°-100°)	4	0.1
UH (100°-180°)	22	0.5
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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