

Report No.: 1

Test Time: 28.01.2019 15:20

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 0,3A 34W 5000K

Lamp Description: LED

Luminous Width (mm): 80

Voltage: 221.8 V

Power: 34.45 W

Luminous Length (mm): 1500

Luminous Height (mm): 70

Current: 0.159 A

Power Factor: 0.972

Photometric Results

CIE Class: Direct

Measurement Flux: 5046.1 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.4, 156.7, 153.3, 153.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.3, 116.4, 112.4, 112.5

Luminaire Efficacy Rating (LER): 146.53

Max. Intensity: 1741 cd

S/MH(C0/C180): 1.30

Total Rated Lamp Lumens: 5046.1 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1735.22 cd

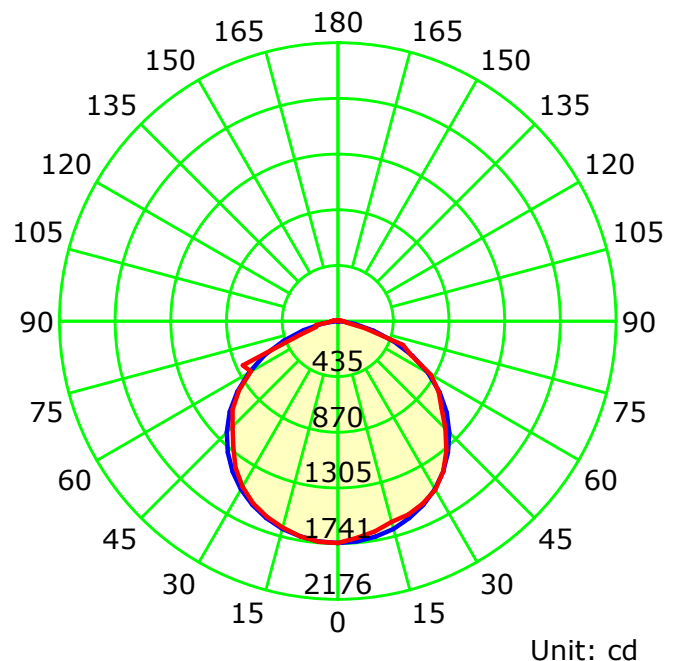
Pos of Max. Intensity: H112.5 V0

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

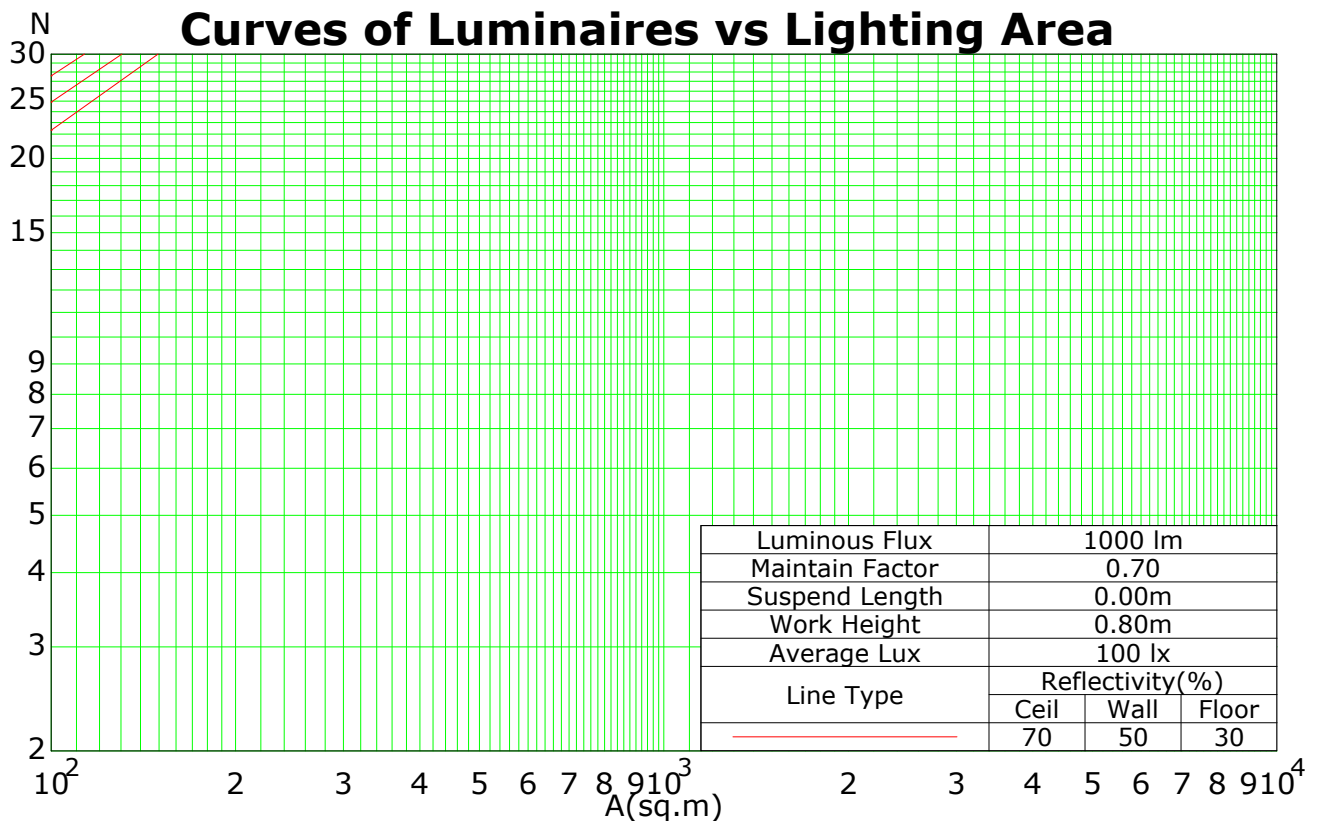
Humidity:

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	110	110	110	105	105	105	101	101	101	99
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	89	87	86	83
2	99	91	84	79	96	89	83	78	85	80	76	82	77	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	69	65	61	59
4	83	71	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	57	51	46	55	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	50	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	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	26
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

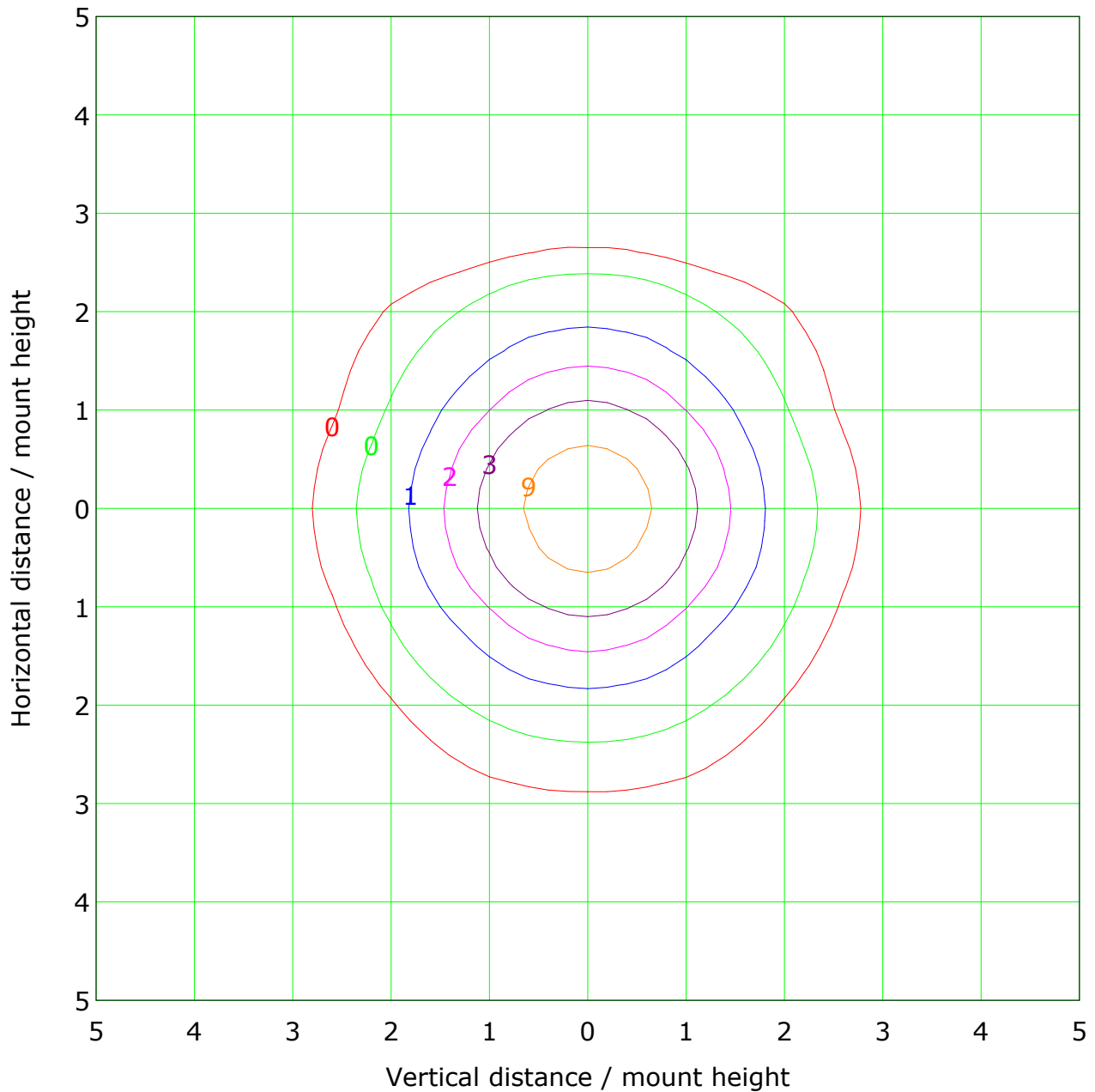
Spacing Criteria (0-180): 1.30
 Spacing Criteria (90-270): 1.29
 Spacing Criteria (Diagonal): 1.40



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%): 17.4 lx

(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.9 lx	(10%): 1.7 lx
(20%): 3.5 lx	(50%): 8.7 lx
(100%): 17.4 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

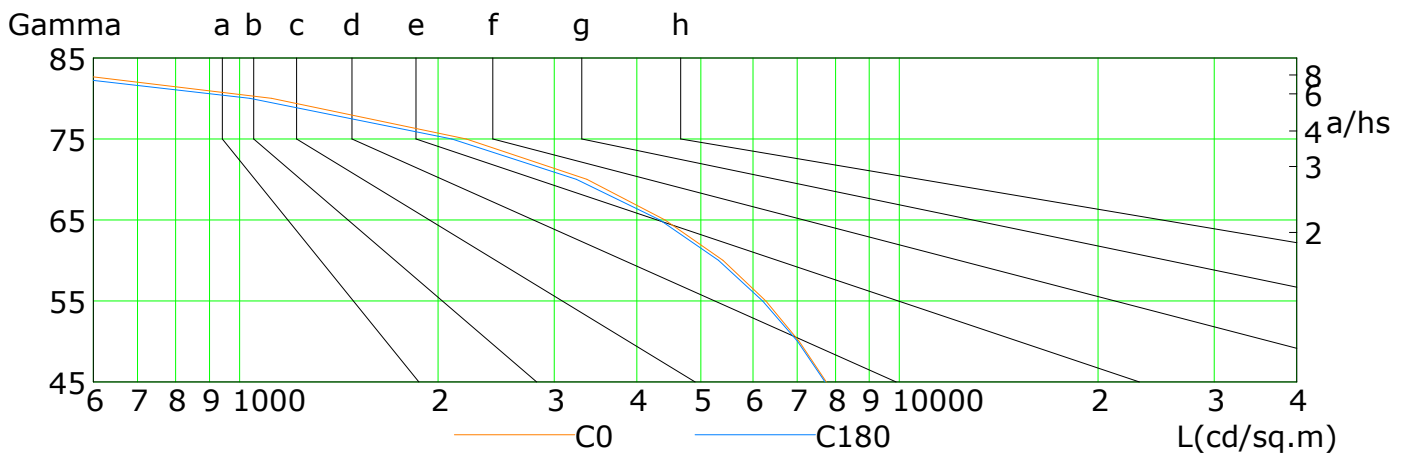
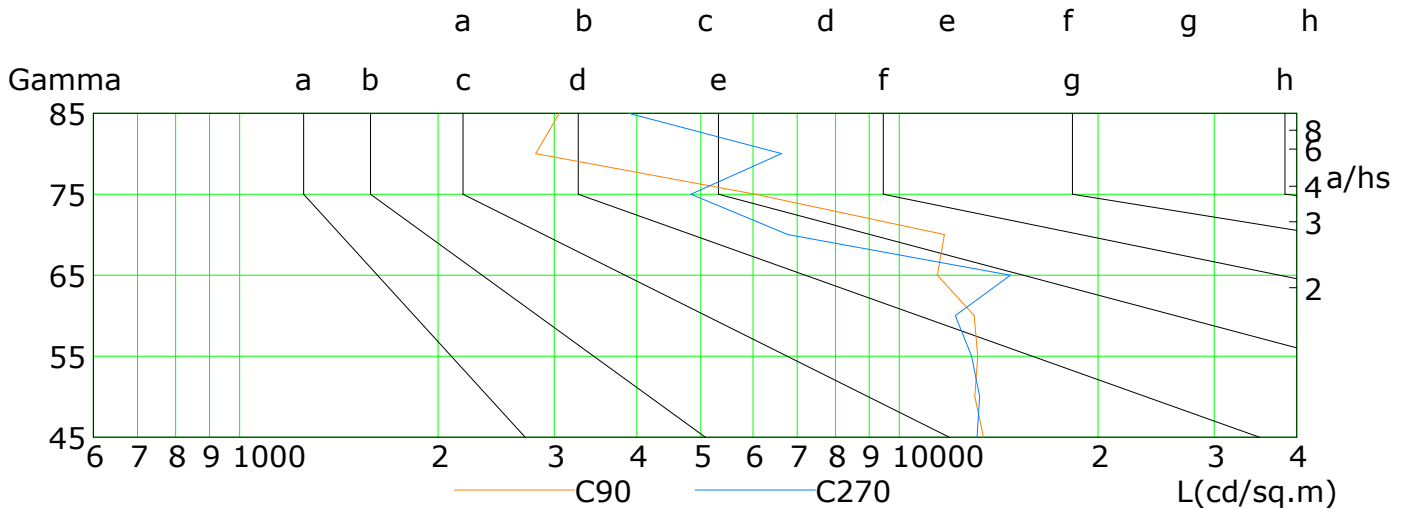
Distance: 12.654 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	7751	7046	6274	5401	4414	3361	2205	1119	350
C90	13412	13009	13139	12978	11419	11703	6050	2810	3053
C180	7717	7007	6202	5317	4335	3238	2097	1037	309
C270	13109	13226	12860	12148	14726	6775	4831	6630	3886

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Operator:

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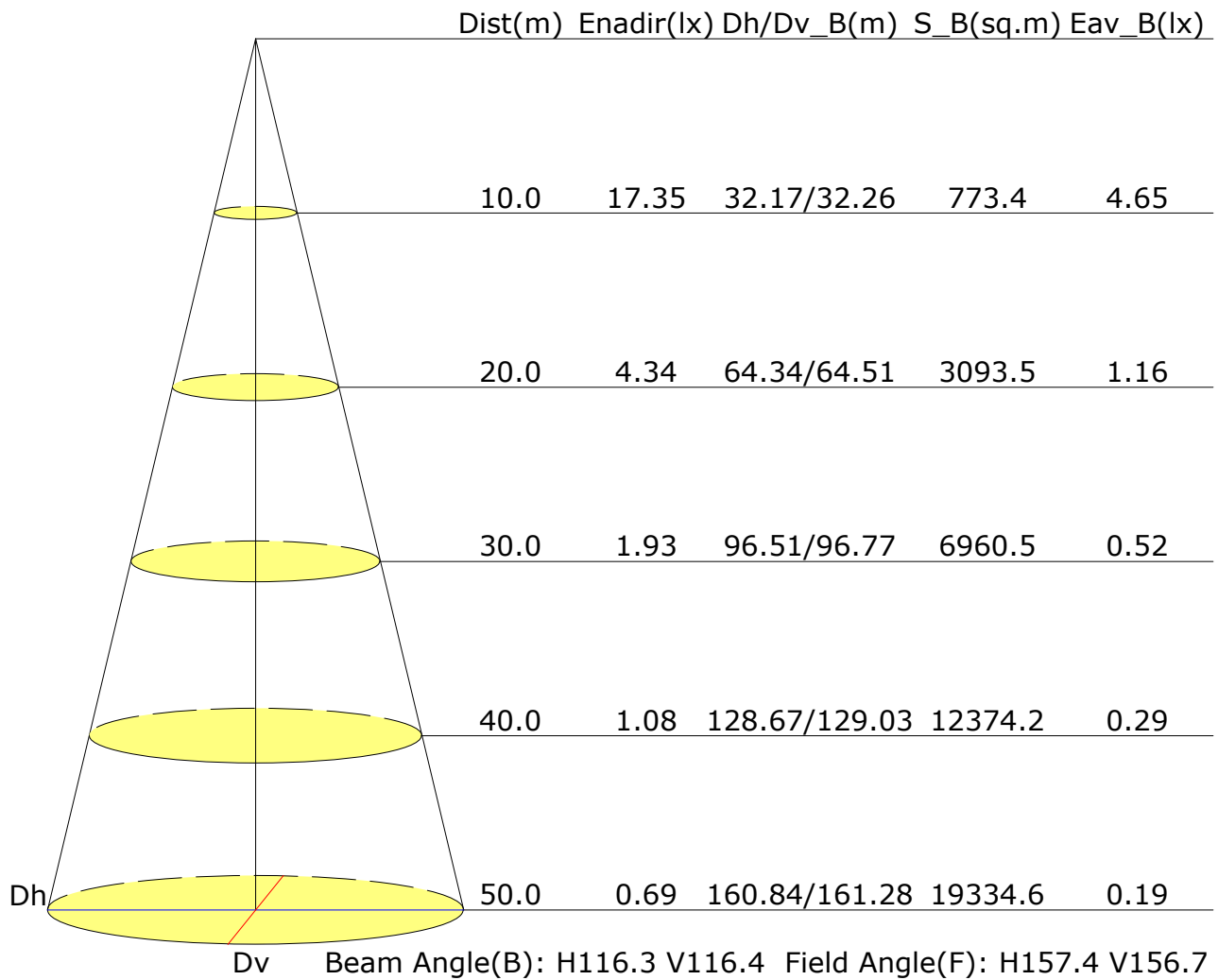
Test Device: LSG-1800B

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

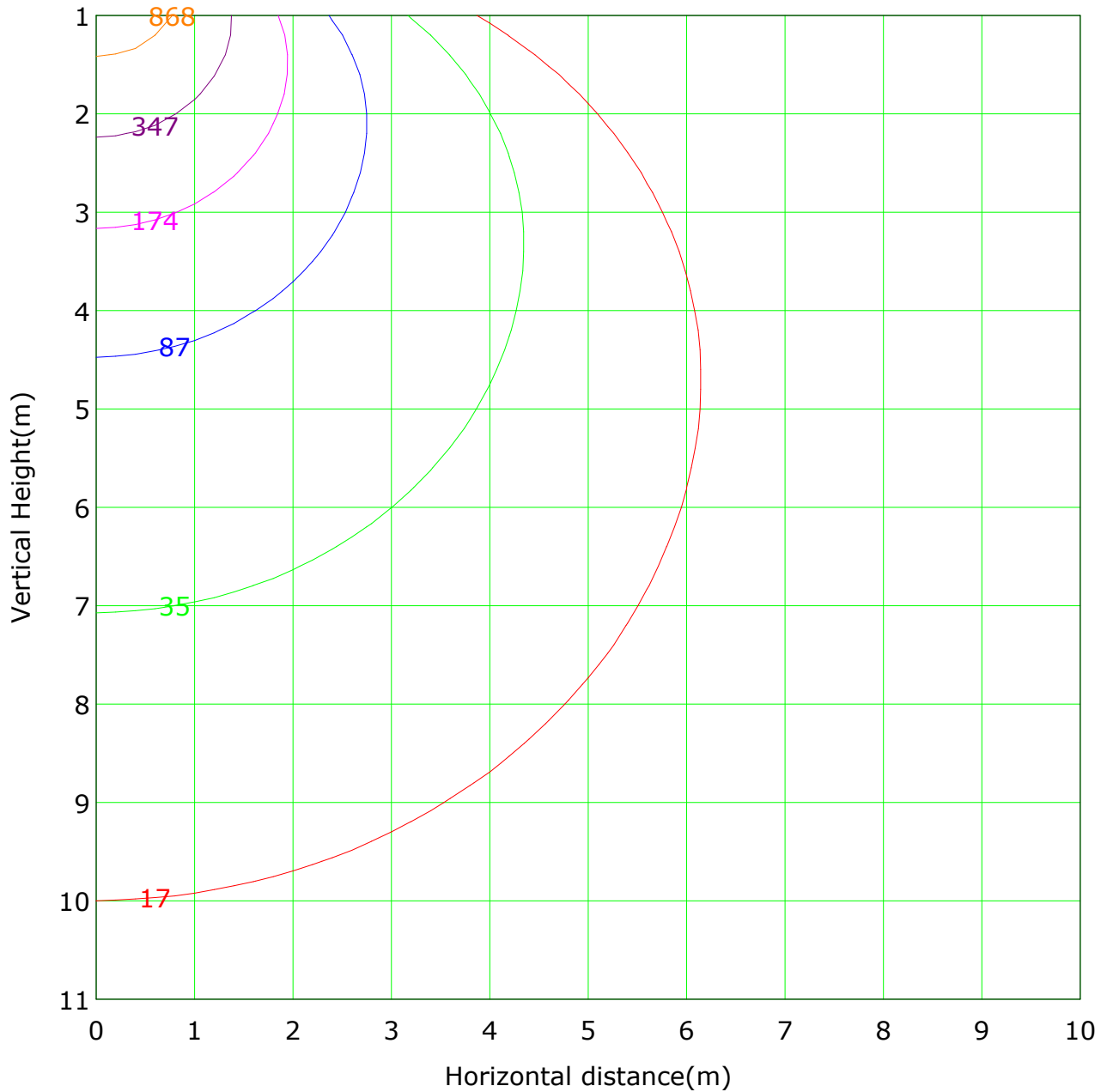
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1735.2 lx
— (1%): 17.4 lx — (2%): 34.7 lx
— (5%): 86.8 lx — (10%): 173.5 lx
— (20%): 347.0 lx — (50%): 867.6 lx
— (100%):1735.2 lx

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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	2504	49.6
FL (0°-30°)	674	13.4
FM (30°-60°)	1333	26.4
FH (60°-80°)	468	9.3
FVH (80°-90°)	29	0.6
BACK LIGHT	2476	49.1
BL (0°-30°)	682	13.5
BM (30°-60°)	1314	26.0
BH (60°-80°)	447	8.9
BVH (80°-90°)	33	0.7
UP LIGHT	66	1.3
UL (90°-100°)	23	0.5
UH (100°-180°)	43	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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