

Report No.: 1

Test Time: 30.01.2019 11:52

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 595 24LED 0,35A 37W 5000K

Lamp Description: LED

Luminous Length (mm): 595 mm

Luminous Height (mm): 35 mm

Current: 0.159 A

Power Factor: 0.973

Number of Lamps: 1

Luminous Width (mm): 595 mm

Voltage: 231.1 V

Power: 35.96 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4910.4 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): 136.60

Max. Intensity: 1689.33 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 4910.4 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1689.33 cd

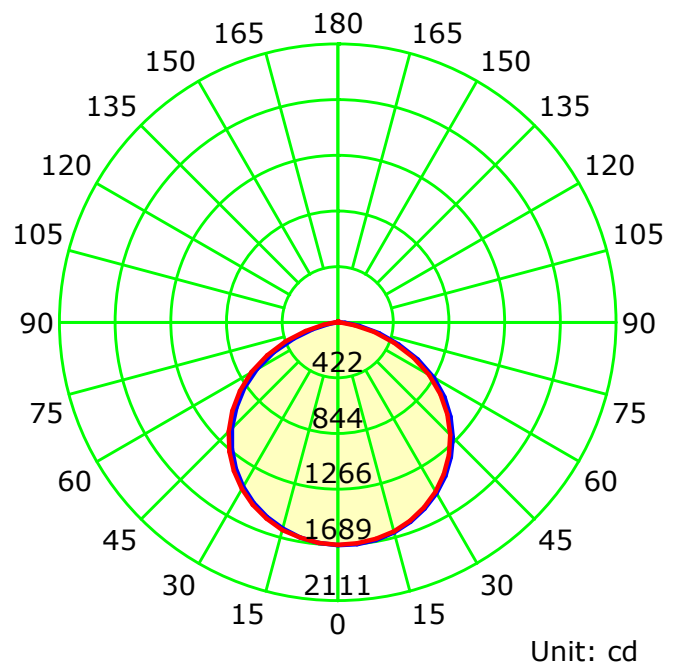
Pos of Max. Intensity: H0 V0

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

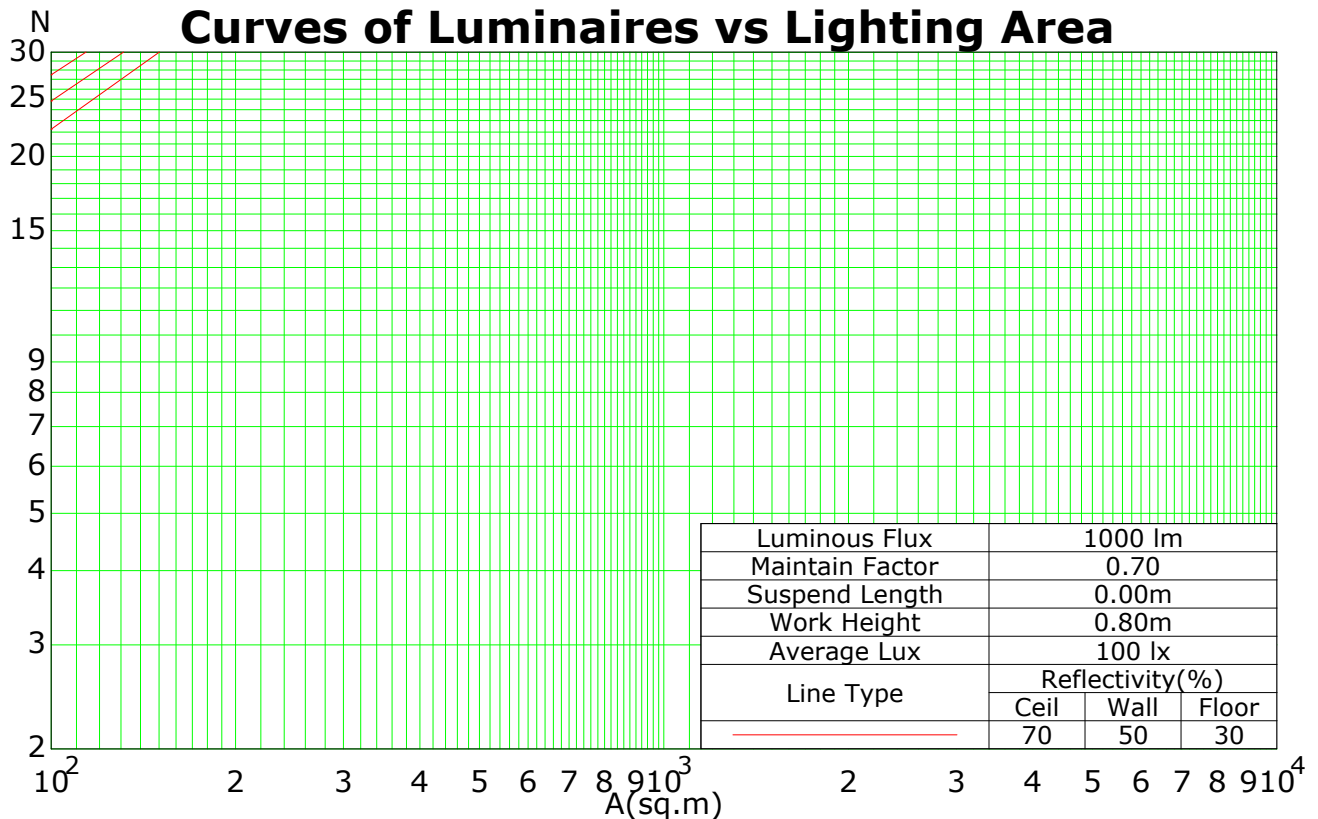
Humidity:

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

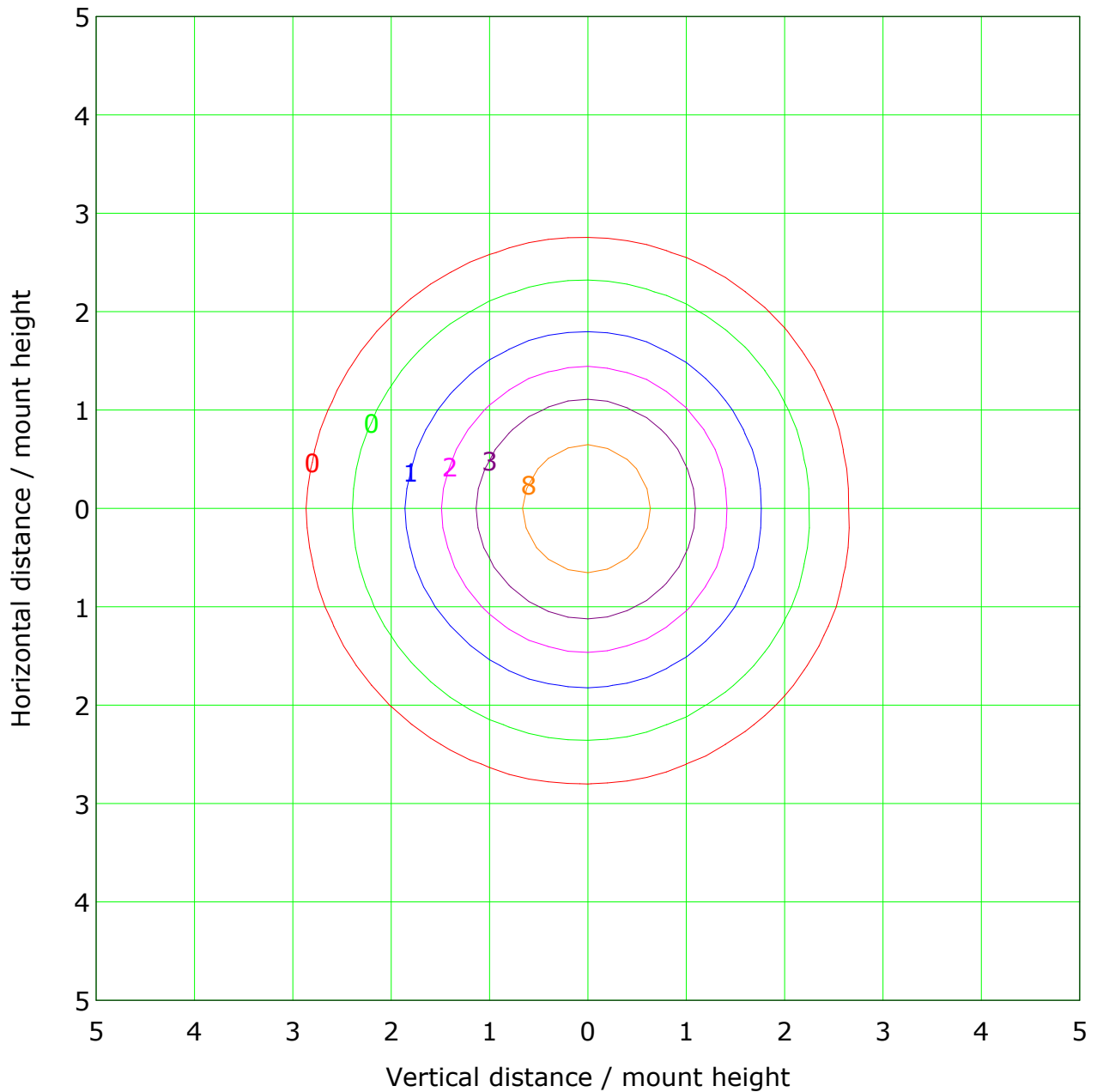
Spacing Criteria (0-180): 1.29
 Spacing Criteria (90-270): 1.29
 Spacing Criteria (Diagonal): 1.41



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 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 16.9 lx

(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.7 lx
(20%): 3.4 lx	(50%): 8.4 lx
(100%): 16.9 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

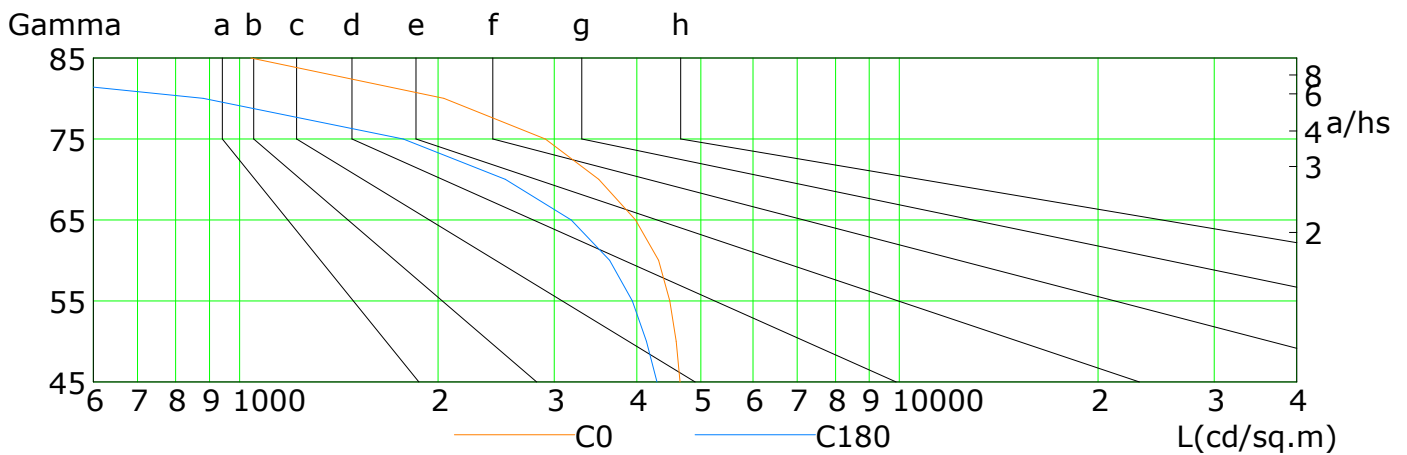
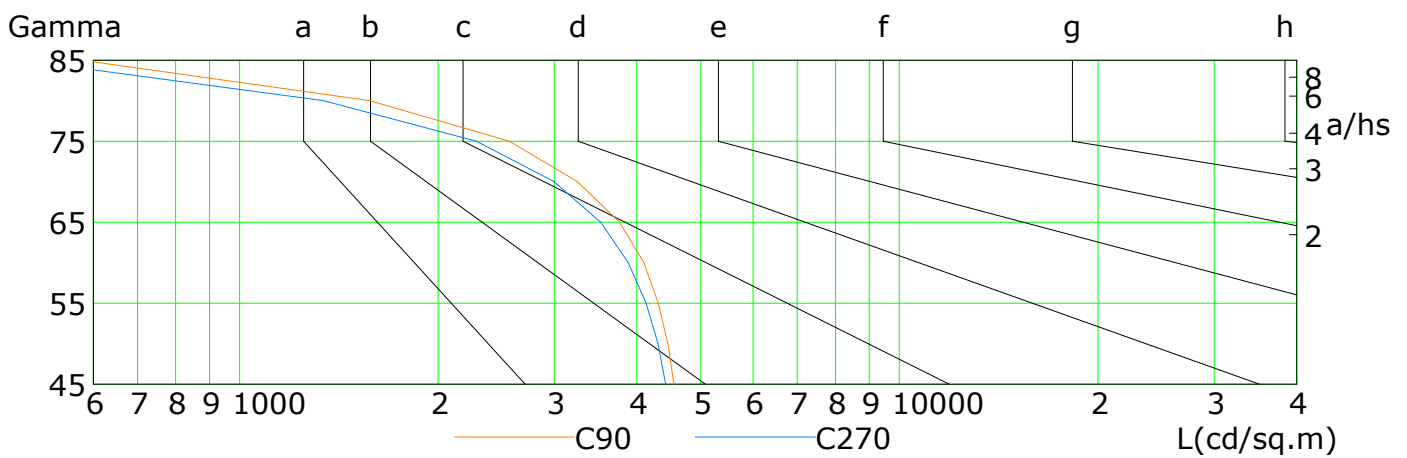
Humidity:

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	4651	4587	4486	4316	3980	3502	2907	2039	1040
C90	4554	4460	4312	4098	3766	3249	2565	1575	580
C180	4290	4137	3939	3636	3182	2529	1770	881	226
C270	4422	4305	4132	3882	3525	2994	2286	1339	470

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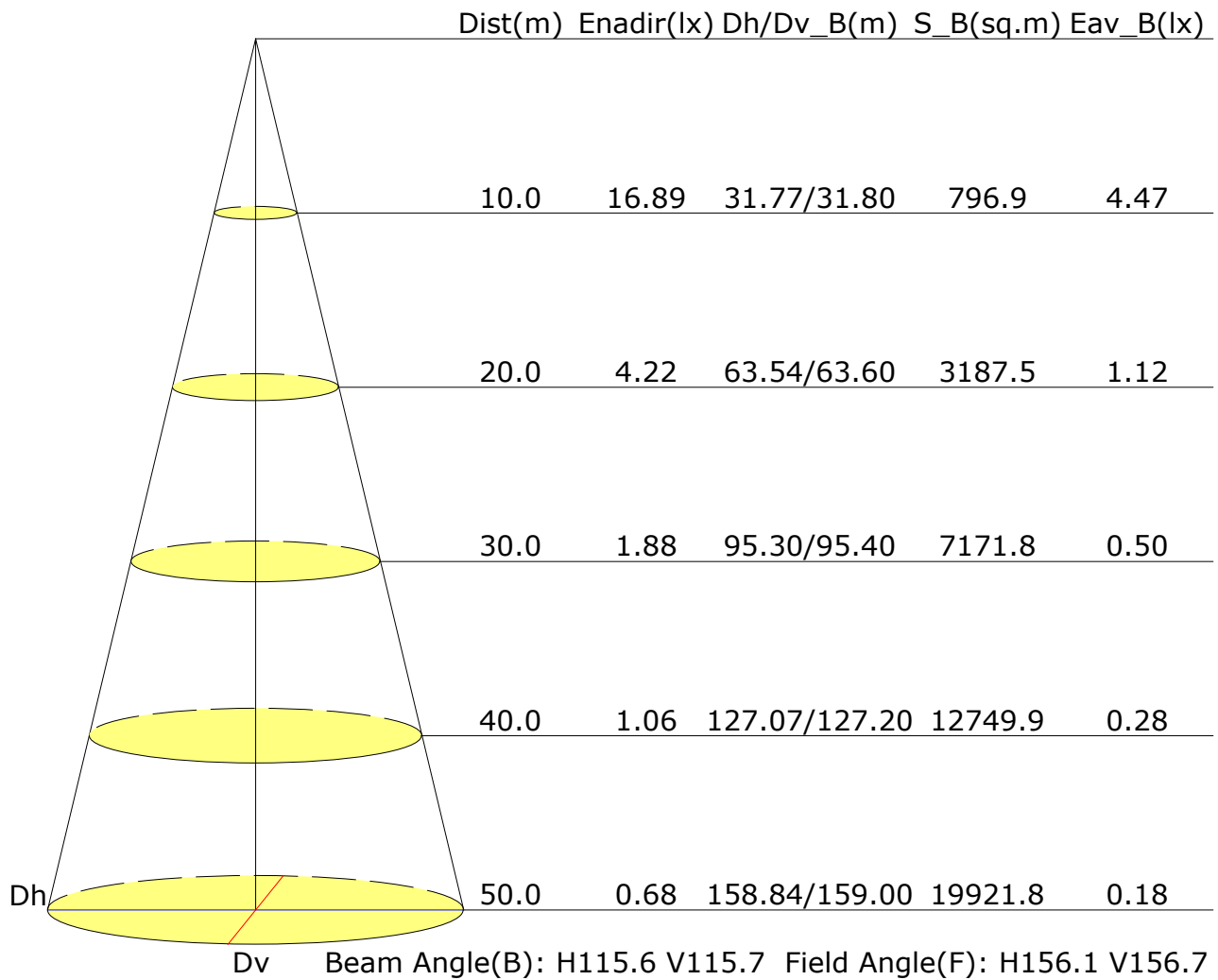
Test Device: LSG-1800B

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

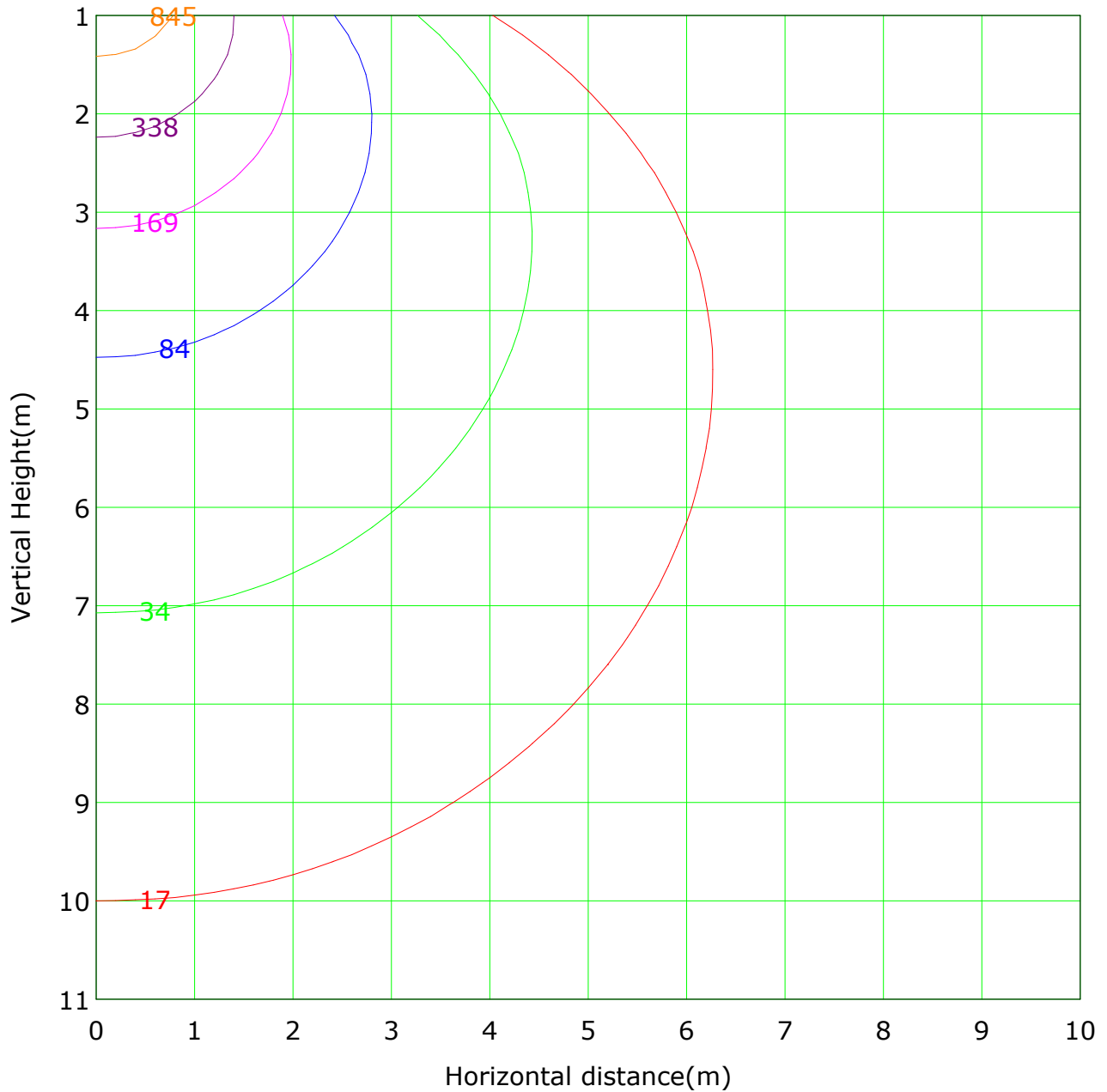
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1689.3 lx
— (1%): 16.9 lx — (2%): 33.8 lx
— (5%): 84.5 lx — (10%): 168.9 lx
— (20%): 337.9 lx — (50%): 844.7 lx
— (100%):1689.3 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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2472	50.3
FL (0°-30°)	668	13.6
FM (30°-60°)	1320	26.9
FH (60°-80°)	458	9.3
FVH (80°-90°)	26	0.5
BACK LIGHT	2410	49.1
BL (0°-30°)	663	13.5
BM (30°-60°)	1291	26.3
BH (60°-80°)	433	8.8
BVH (80°-90°)	23	0.5
UP LIGHT	29	0.6
UL (90°-100°)	4	0.1
UH (100°-180°)	25	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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