

Report No.: 1

Test Time: 30.01.2019 11:52

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 595 40LED 0,35A 44W 5000K

Lamp Description: LED

Luminous Length (mm): 595 mm

Luminous Height (mm): 35 mm

Current: 0.194 A

Power Factor: 0.980

Number of Lamps: 1

Luminous Width (mm): 595 mm

Voltage: 231.1 V

Power: 43.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 6160.1 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): 141.66

Max. Intensity: 2119.24 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 6160.1 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 2119.24 cd

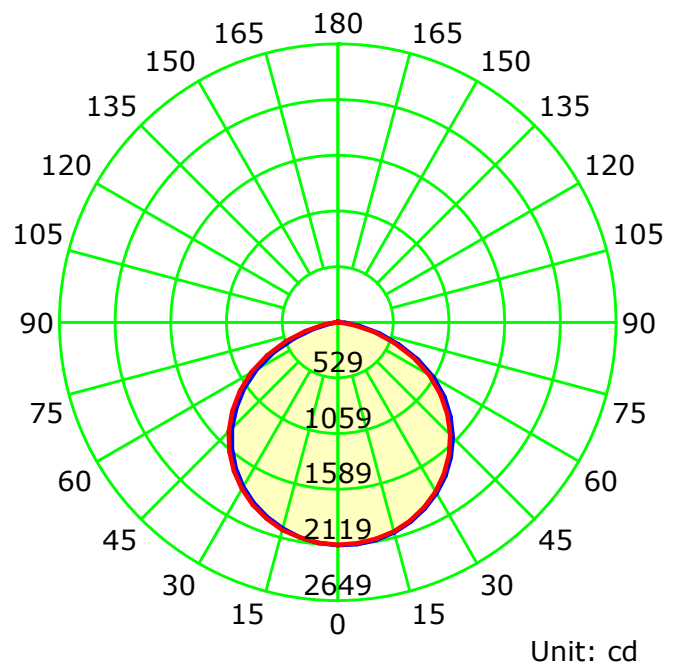
Pos of Max. Intensity: H0 V0

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

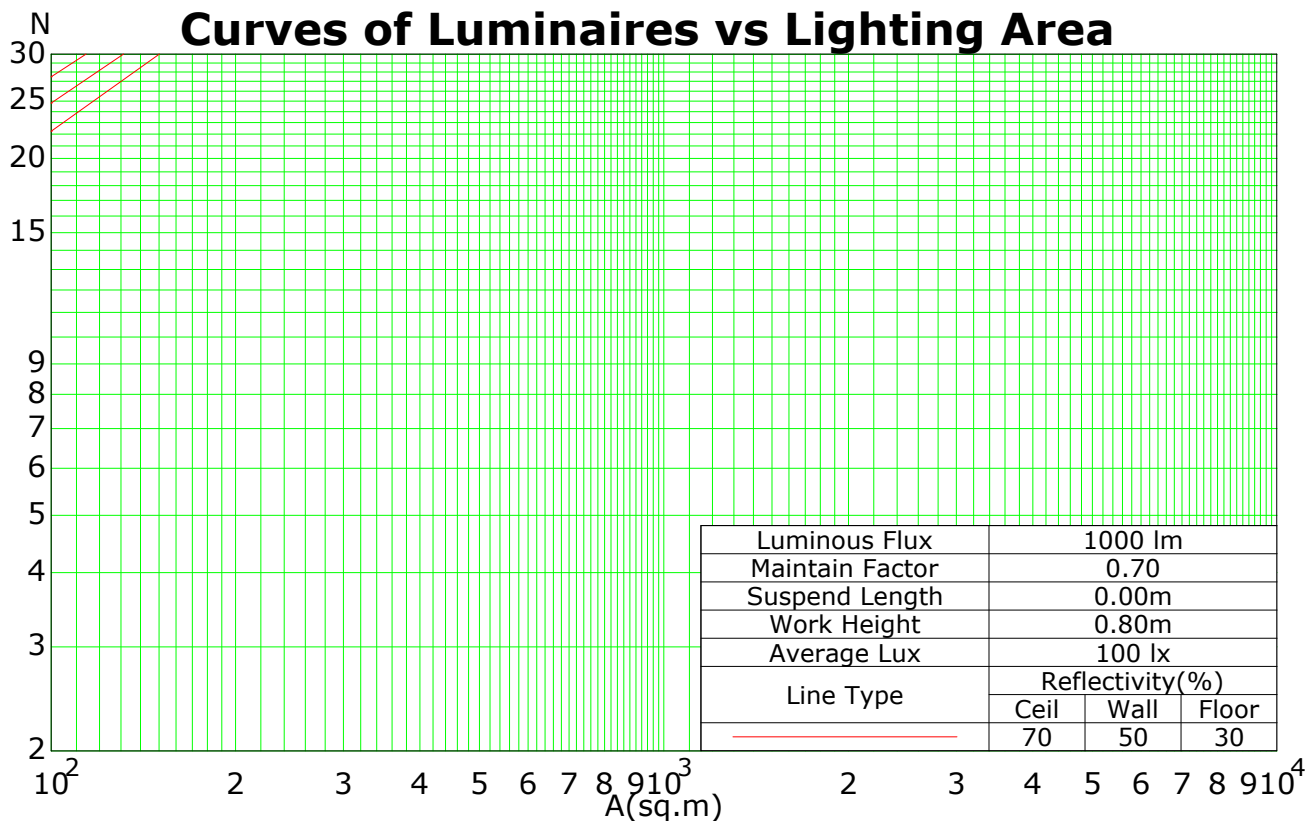
Humidity:

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

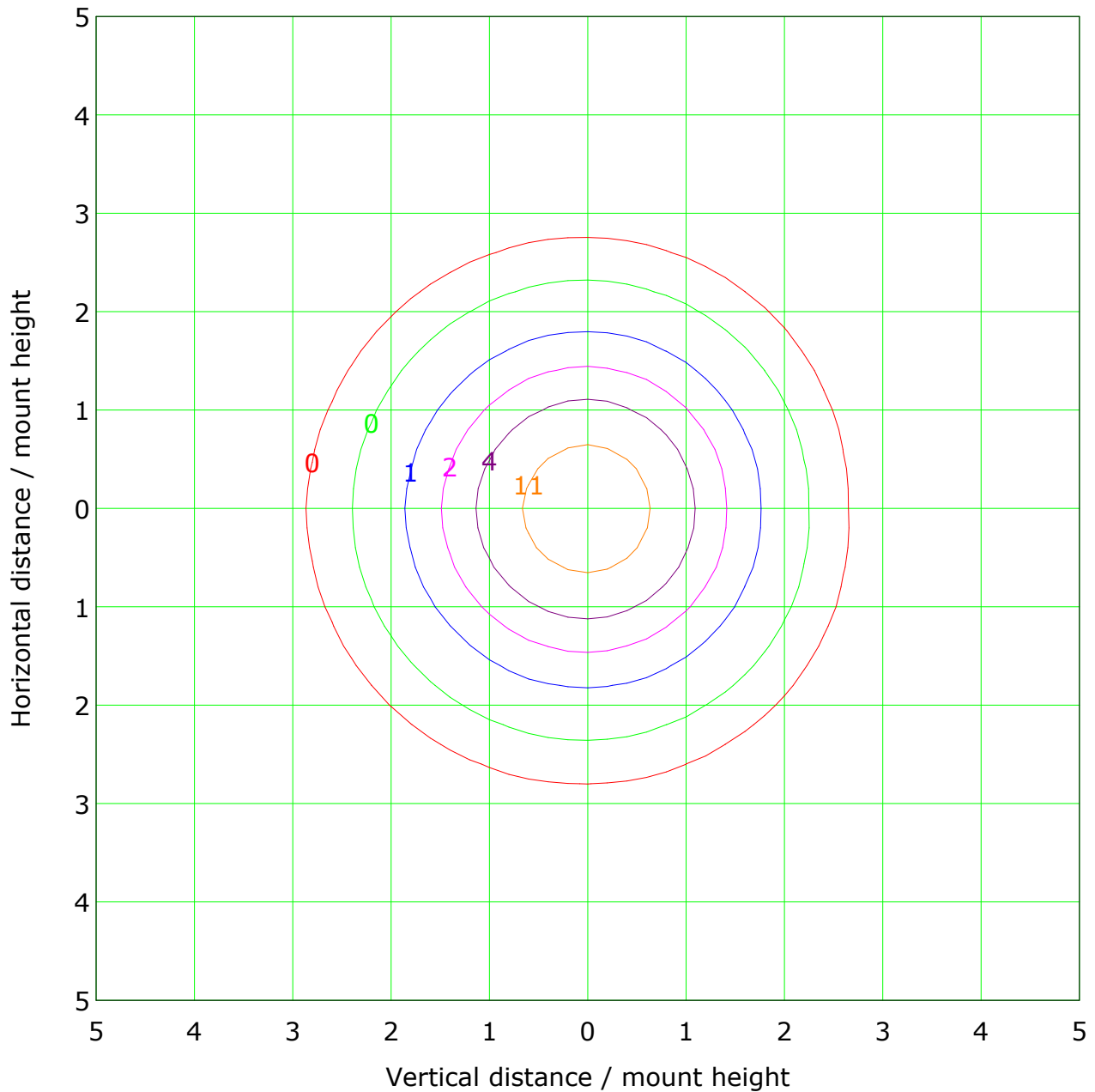
Spacing Criteria (0-180): 1.29
 Spacing Criteria (90-270): 1.29
 Spacing Criteria (Diagonal): 1.41



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 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 21.2 lx

(1%): 0.2 lx	(2%): 0.4 lx
(5%): 1.1 lx	(10%): 2.1 lx
(20%): 4.2 lx	(50%): 10.6 lx
(100%): 21.2 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

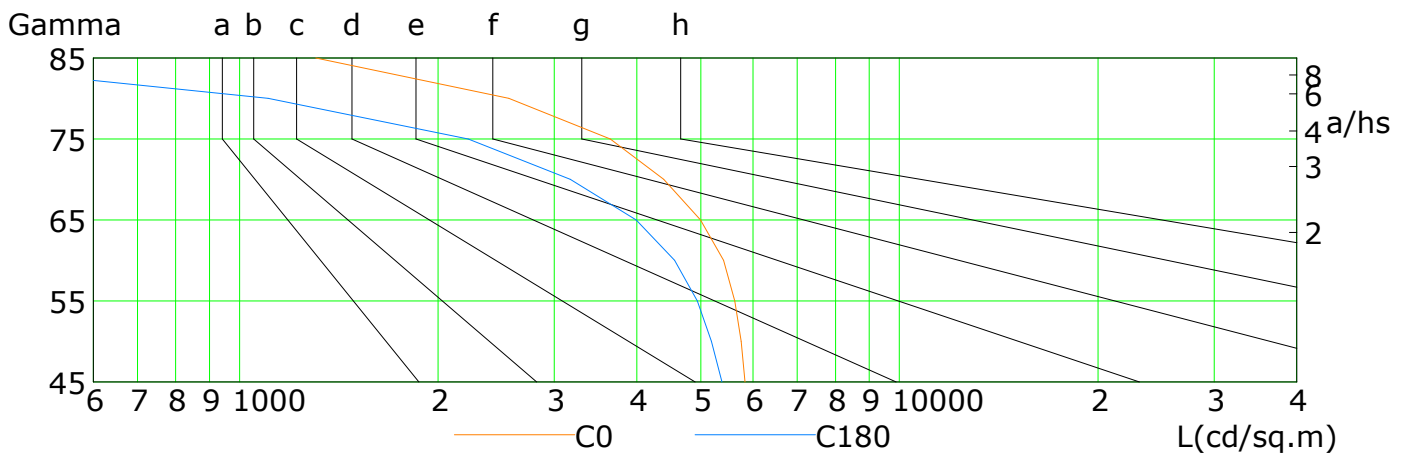
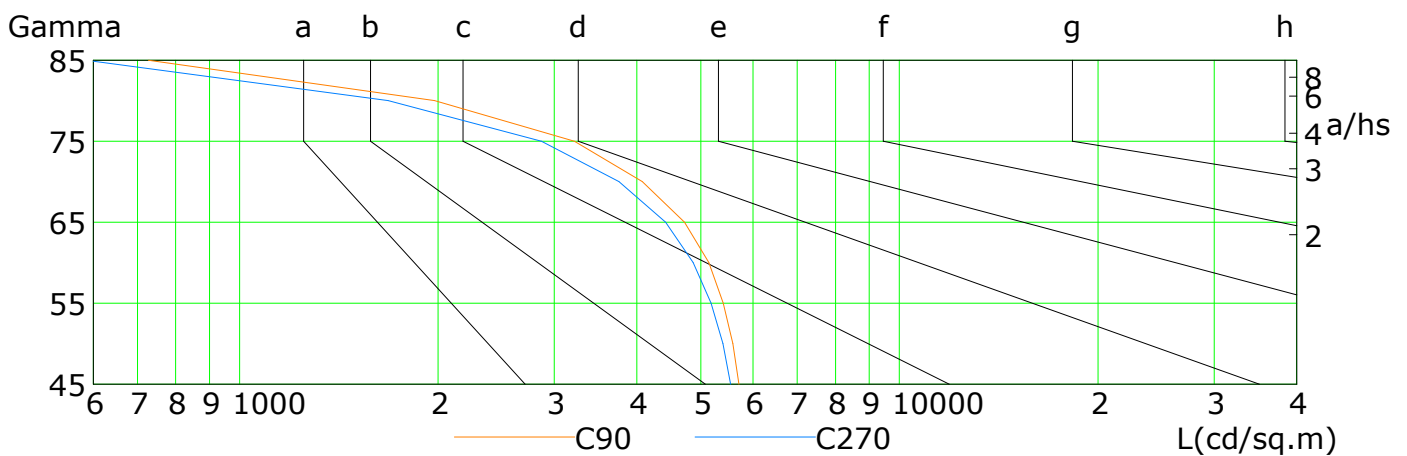
Humidity:

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	5835	5754	5627	5415	4993	4393	3647	2558	1305
C90	5713	5595	5410	5141	4725	4075	3218	1976	728
C180	5381	5190	4942	4562	3992	3172	2220	1105	284
C270	5547	5400	5184	4871	4421	3756	2868	1680	590

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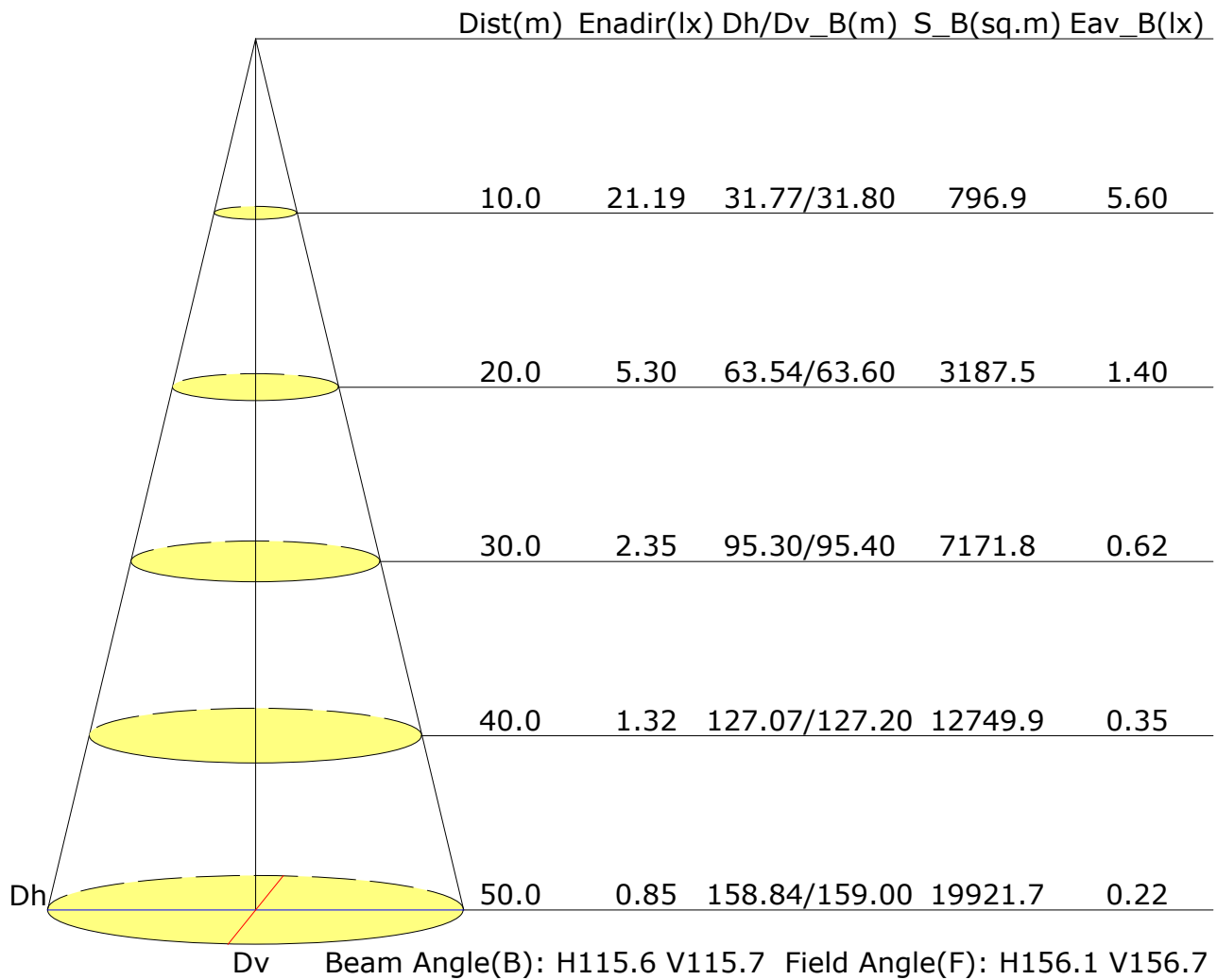
Test Device: LSG-1800B

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

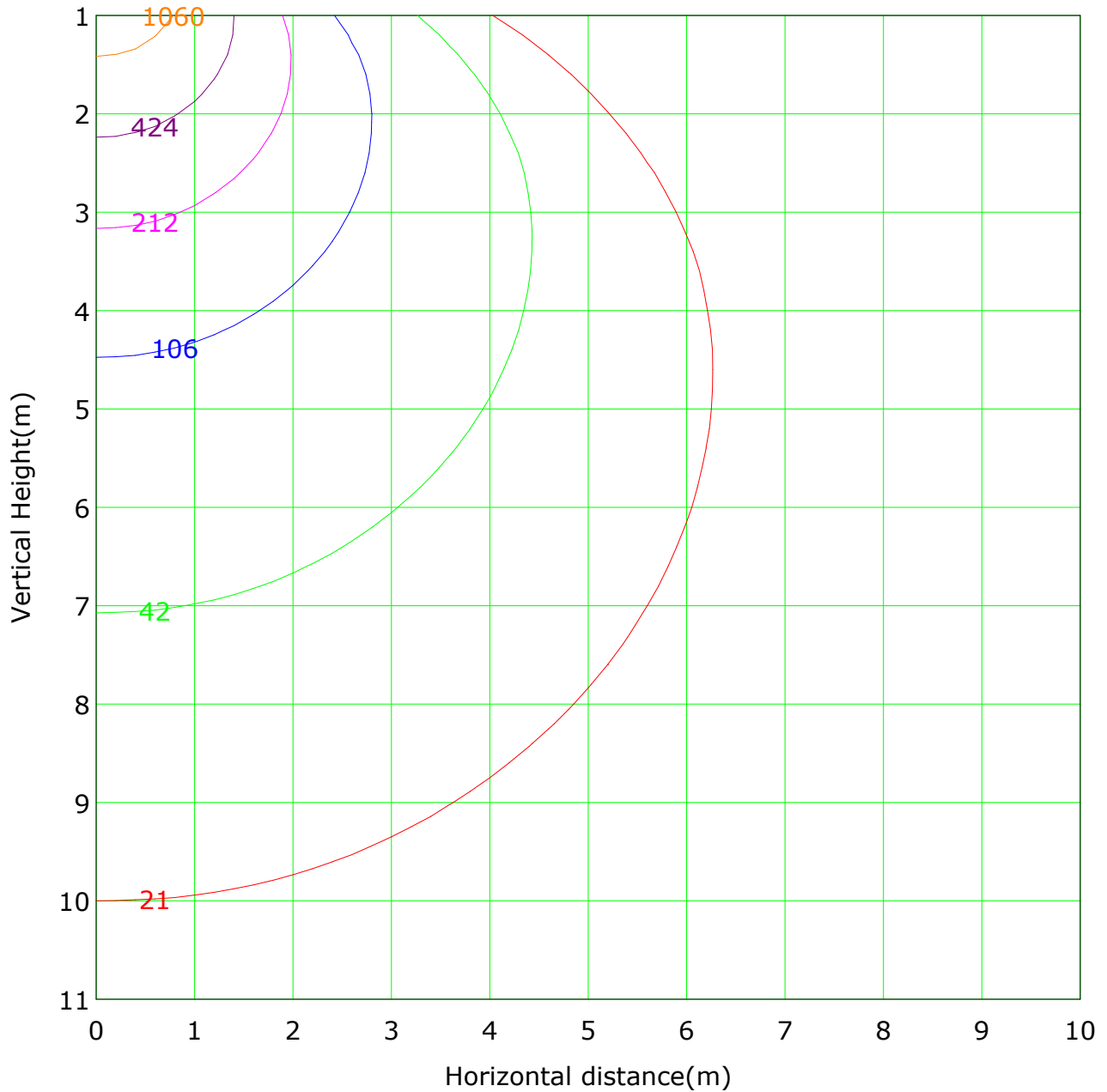
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2119.2 lx
 (1%): 21.2 lx (2%): 42.4 lx
 (5%): 106.0 lx (10%): 211.9 lx
 (20%): 423.8 lx (50%): 1059.6 lx
 (100%): 2119.2 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	3101	50.3
FL (0°-30°)	838	13.6
FM (30°-60°)	1656	26.9
FH (60°-80°)	574	9.3
FVH (80°-90°)	33	0.5
BACK LIGHT	3023	49.1
BL (0°-30°)	831	13.5
BM (30°-60°)	1620	26.3
BH (60°-80°)	543	8.8
BVH (80°-90°)	29	0.5
UP LIGHT	36	0.6
UL (90°-100°)	5	0.1
UH (100°-180°)	31	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 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U2 G1

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