

Report No.: 1

Test Time: 15.10.2018 15:17

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 32W 0,26A 5000K opal

Lamp Description: LED

Luminous Width (mm): 55

Voltage: 221.6 V

Power: 32.27 W

Luminous Length (mm): 900

Luminous Height (mm): 85

Current: 0.155 A

Power Factor: 0.938

Photometric Results

CIE Class: Direct

Measurement Flux: 3988.4 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.8, 162.3, 161.2, 161.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.4, 109.4, 108.9, 108.8

Luminaire Efficacy Rating (LER): 123.64

Max. Intensity: 1429.82 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 3988.4 lm

Efficiency: 100%

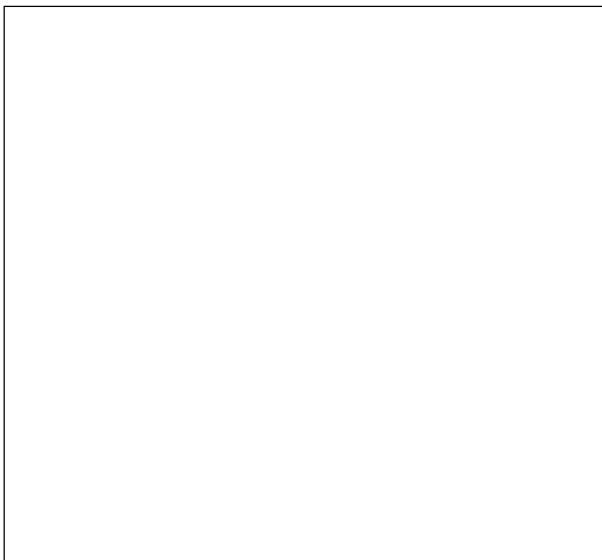
Upward Ratio: 1%

Central Intensity: 1429.33 cd

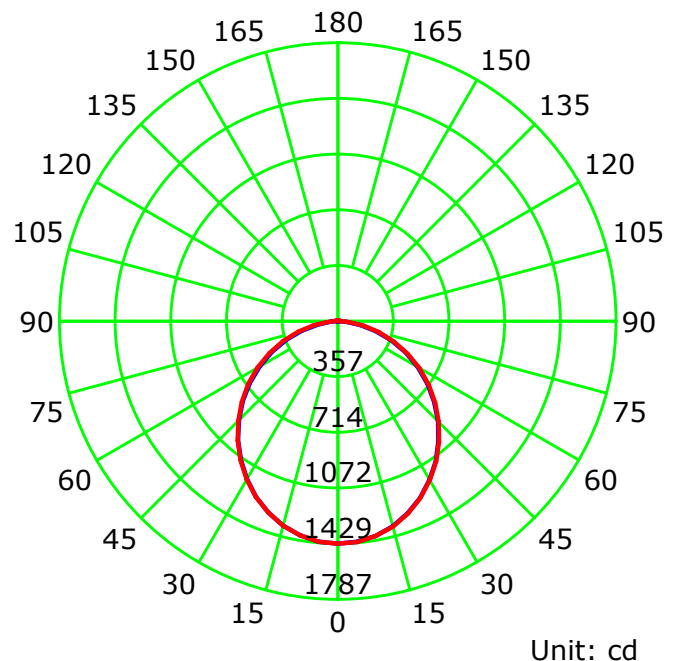
Pos of Max. Intensity: H135 V0

S/MH(C90/C270): 1.23

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

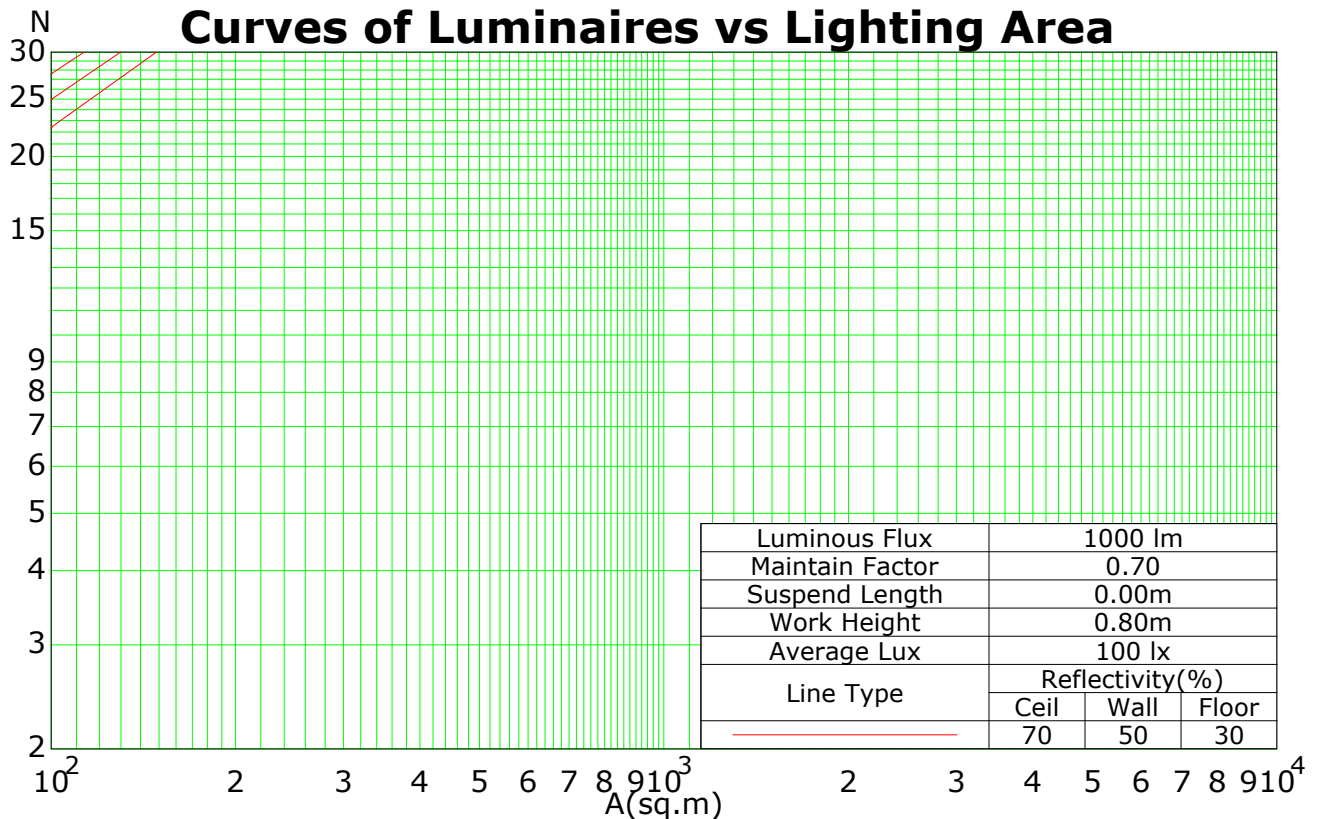
Humidity:

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	106	106	106	101	101	101	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	74	68	63	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	61	56	52	49
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	57	48	41	68	56	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	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	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

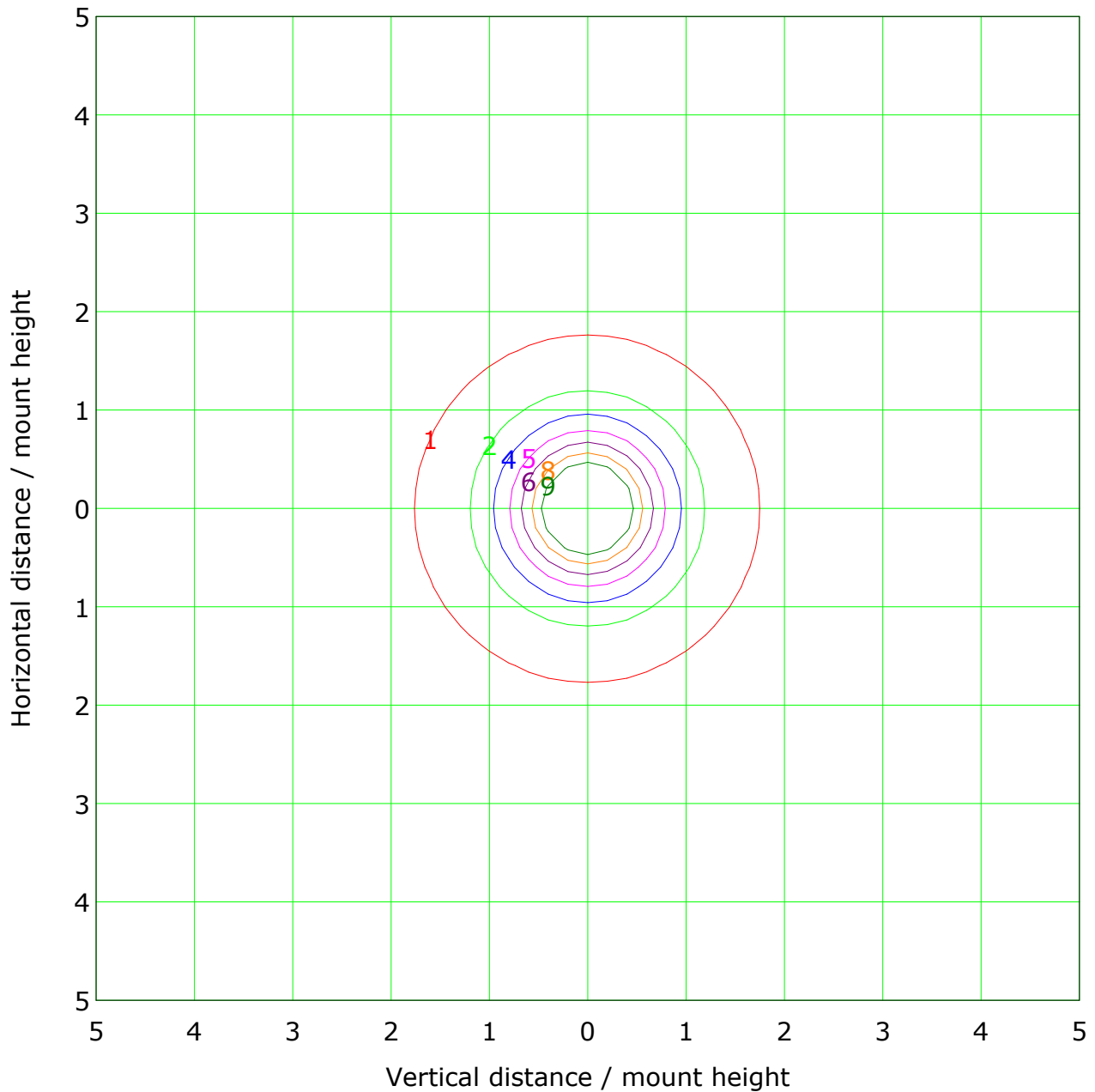
Spacing Criteria (0-180): 1.22
 Spacing Criteria (90-270): 1.23
 Spacing Criteria (Diagonal): 1.34



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

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 14.3 lx	
(5%):	0.7 lx	(15%):	2.1 lx
(25%):	3.6 lx	(35%):	5.0 lx
(45%):	6.4 lx	(55%):	7.9 lx
(65%):	9.3 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

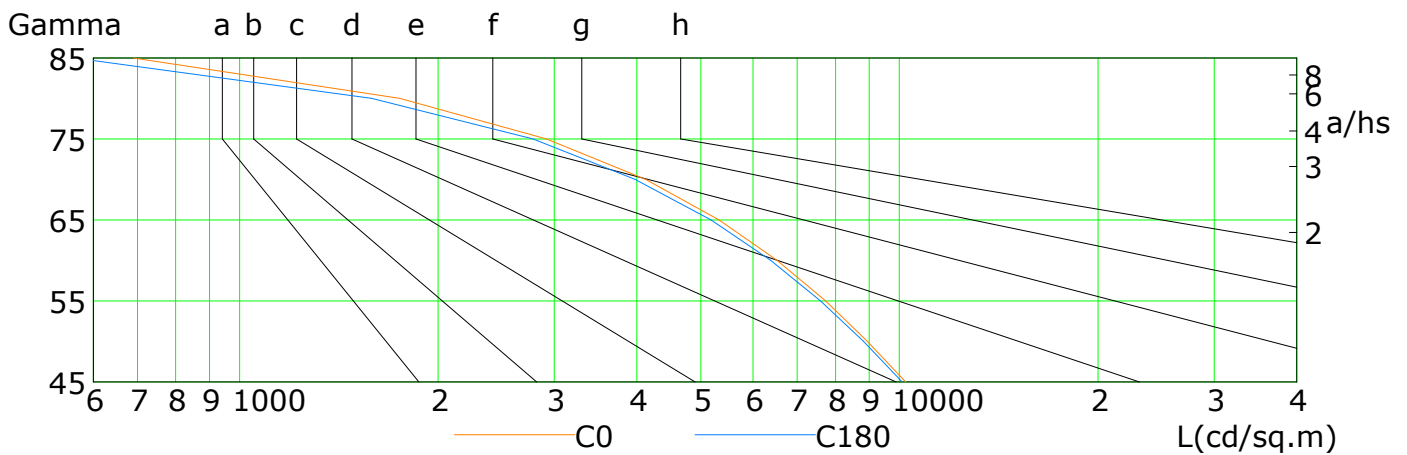
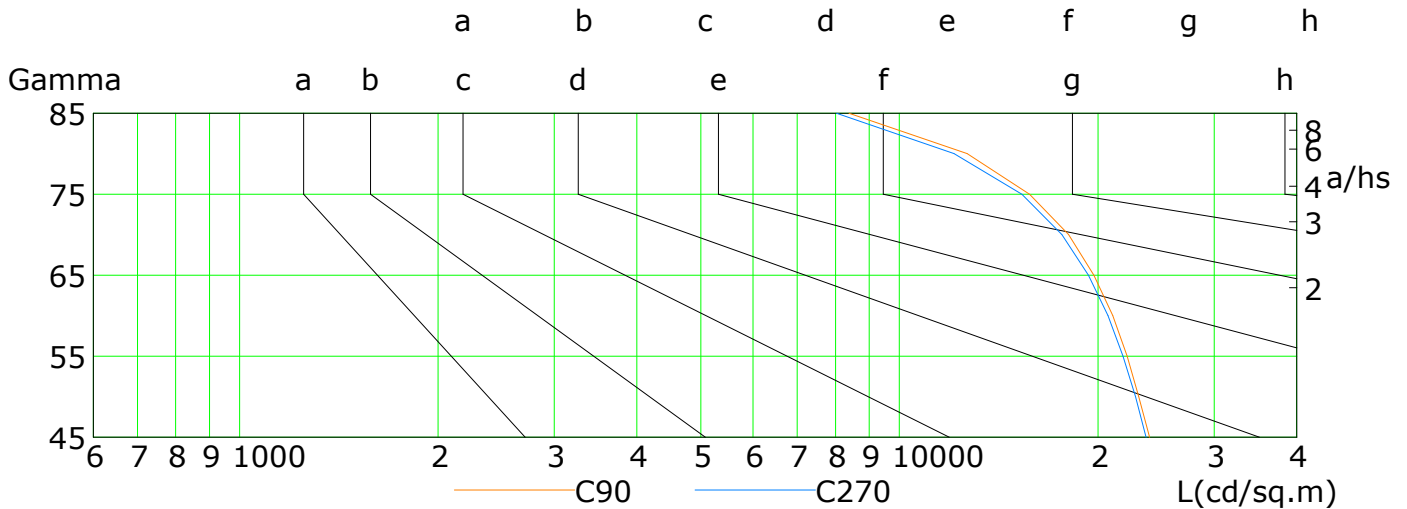
Distance: 12.654 m

Humidity:

Inspector:

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	10224	8943	7728	6528	5327	4124	2918	1749	690
C90	23932	23062	22136	21061	19723	18042	15747	12660	8387
C180	10099	8825	7594	6381	5182	3974	2787	1585	563
C270	23657	22795	21834	20699	19349	17634	15325	12106	8027

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Temperature:

Operator:

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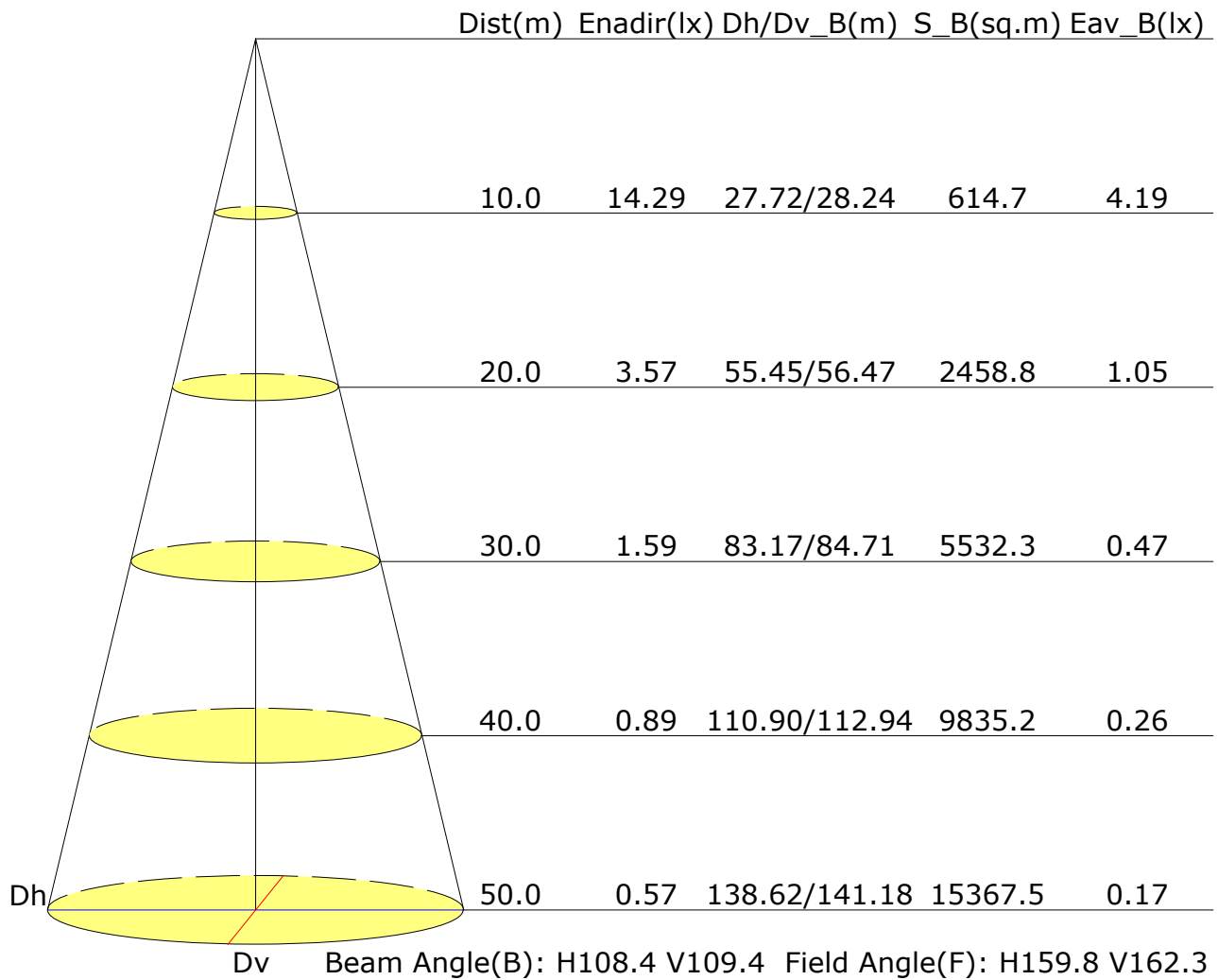
Test Device: LSG-1800B

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

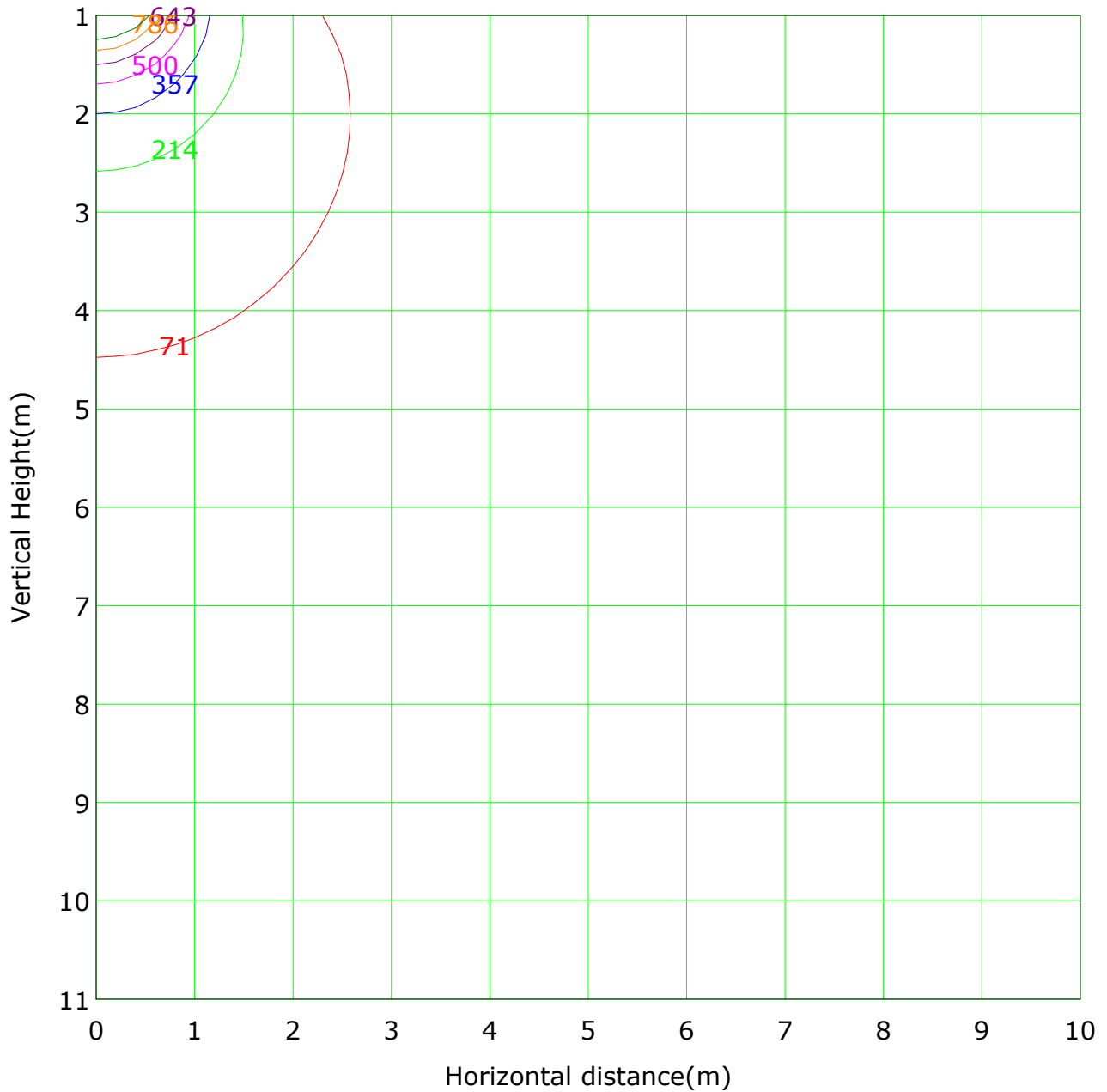
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1429.3 lx

(5%): 71.5 lx	(15%): 214.4 lx
(25%): 357.3 lx	(35%): 500.3 lx
(45%): 643.2 lx	(55%): 786.1 lx
(65%): 929.1 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	1980	49.6
FL (0°-30°)	548	13.7
FM (30°-60°)	1011	25.3
FH (60°-80°)	380	9.5
FVH (80°-90°)	41	1.0
BACK LIGHT	1961	49.2
BL (0°-30°)	546	13.7
BM (30°-60°)	1003	25.1
BH (60°-80°)	373	9.4
BVH (80°-90°)	40	1.0
UP LIGHT	47	1.2
UL (90°-100°)	15	0.4
UH (100°-180°)	32	0.8
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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