

Report No.: 1

Test Time: 17.10.2018 15:01

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 76W 0,46A 5000K

Lamp Description: LED

Luminous Width (mm): 55

Voltage: 221.9 V

Power: 76.55 W

Luminous Length (mm): 1500

Luminous Height (mm): 85

Current: 0.349 A

Power Factor: 0.987

Photometric Results

CIE Class: Direct

Measurement Flux: 11345.5 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.0, 152.6, 156.0, 155.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.0, 115.3, 113.7, 113.9

Luminaire Efficacy Rating (LER): 148.26

Max. Intensity: 3894.22 cd

S/MH(C0/C180): 1.30

Total Rated Lamp Lumens: 11345.5 lm

Efficiency: 100%

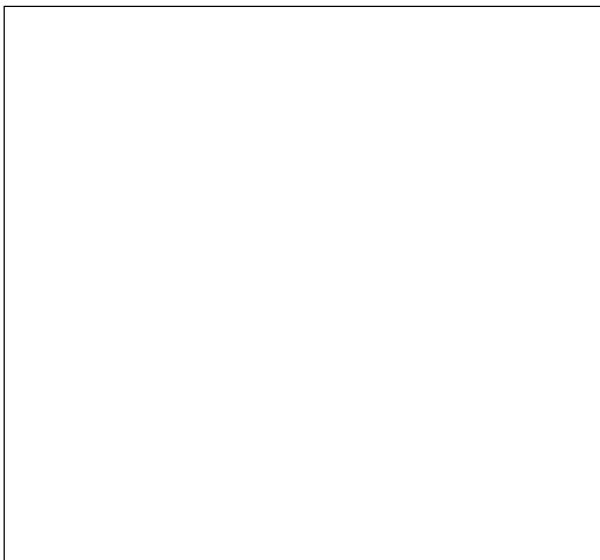
Upward Ratio: 1%

Central Intensity: 3883.81 cd

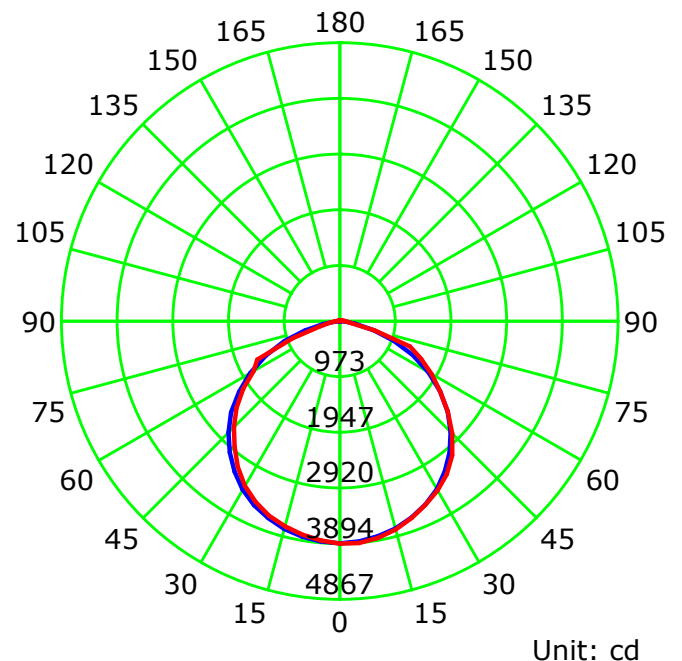
Pos of Max. Intensity: H112.5 V5

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

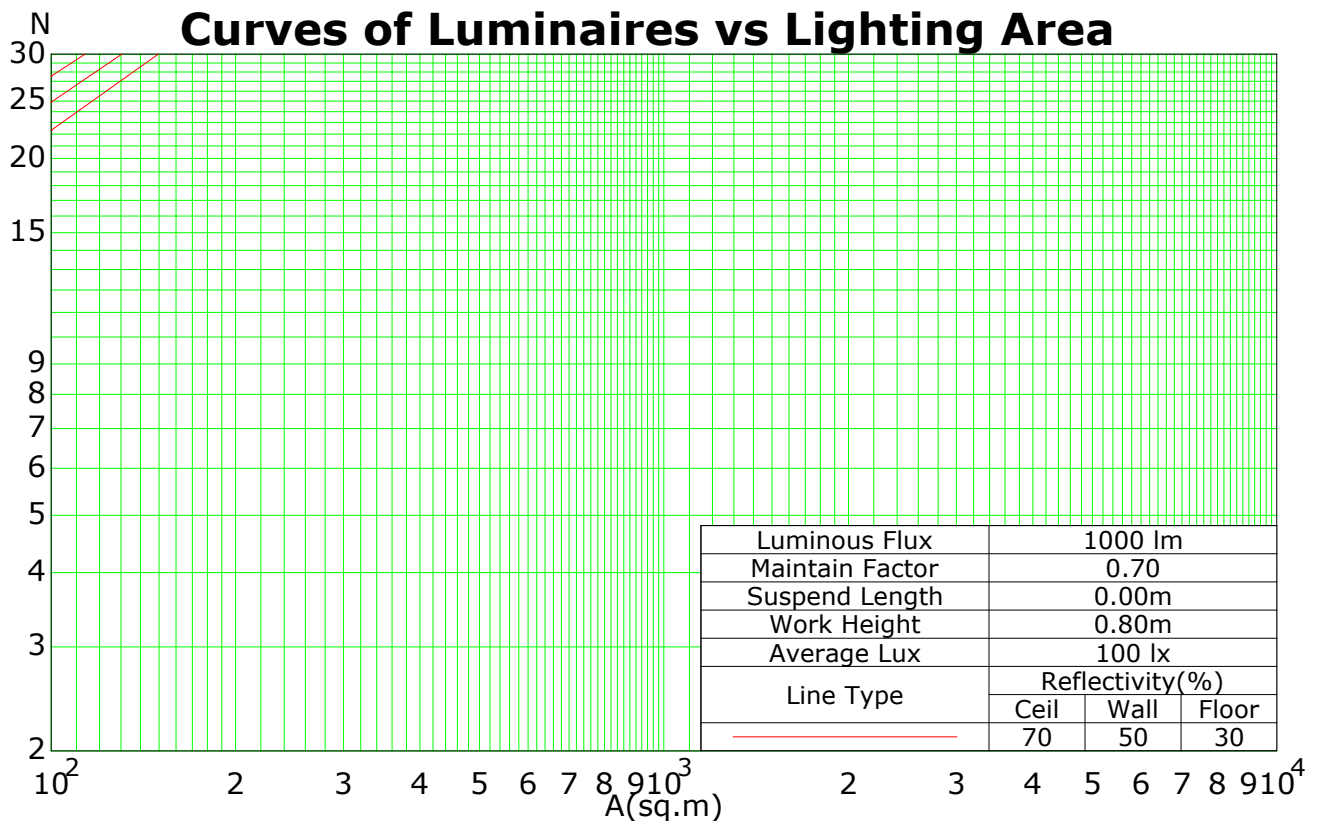
Humidity:

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	101	101	101	99
1	109	104	100	96	106	102	98	95	97	94	92	93	91	89	90	88	86	84
2	99	91	84	79	96	89	83	78	85	80	76	82	78	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	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	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	27
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

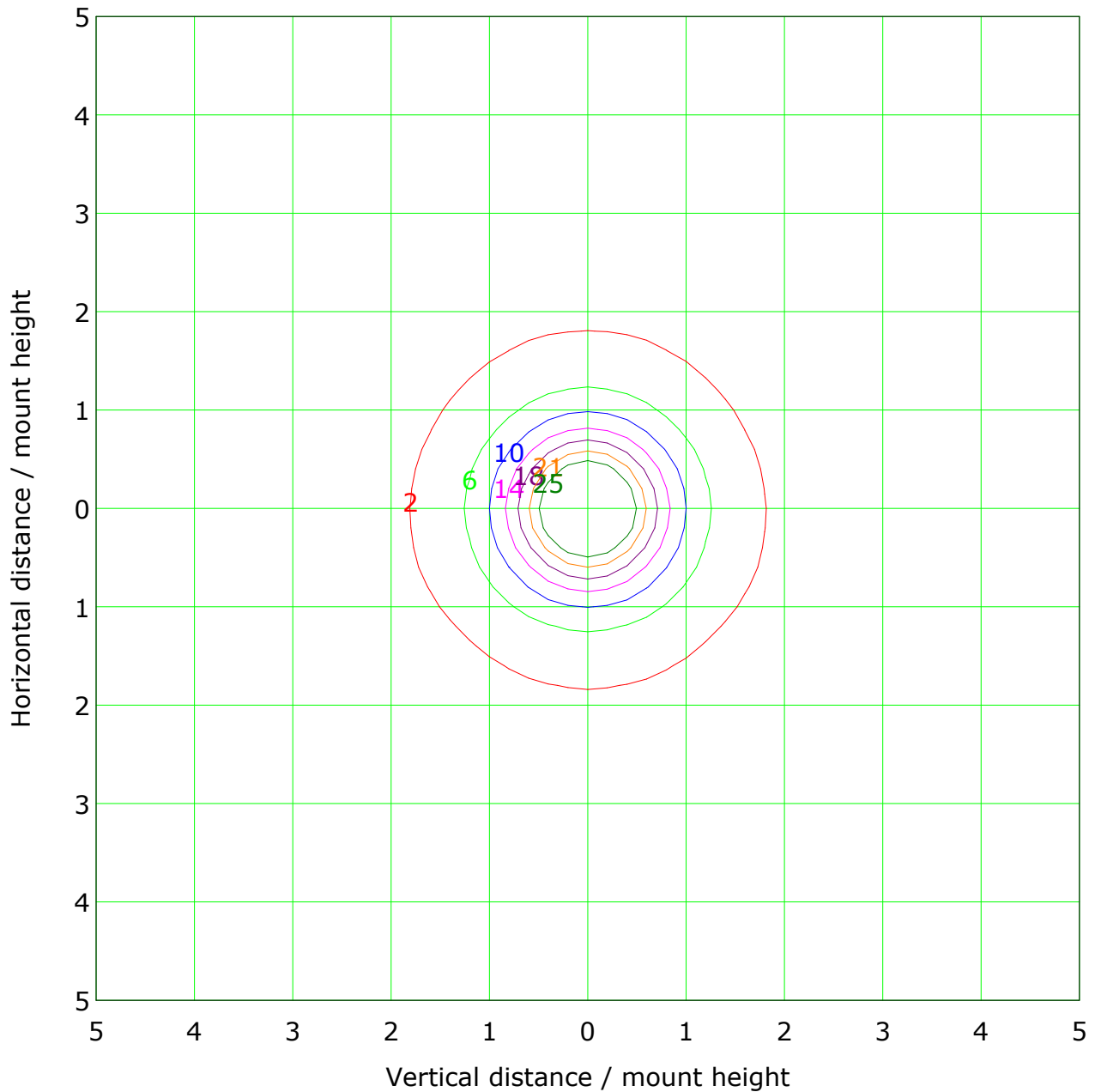
Spacing Criteria (0-180): 1.30
 Spacing Criteria (90-270): 1.29
 Spacing Criteria (Diagonal): 1.41



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

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 38.9 lx	
(5%): 1.9 lx	(15%): 5.8 lx
(25%): 9.7 lx	(35%): 13.6 lx
(45%): 17.5 lx	(55%): 21.4 lx
(65%): 25.3 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

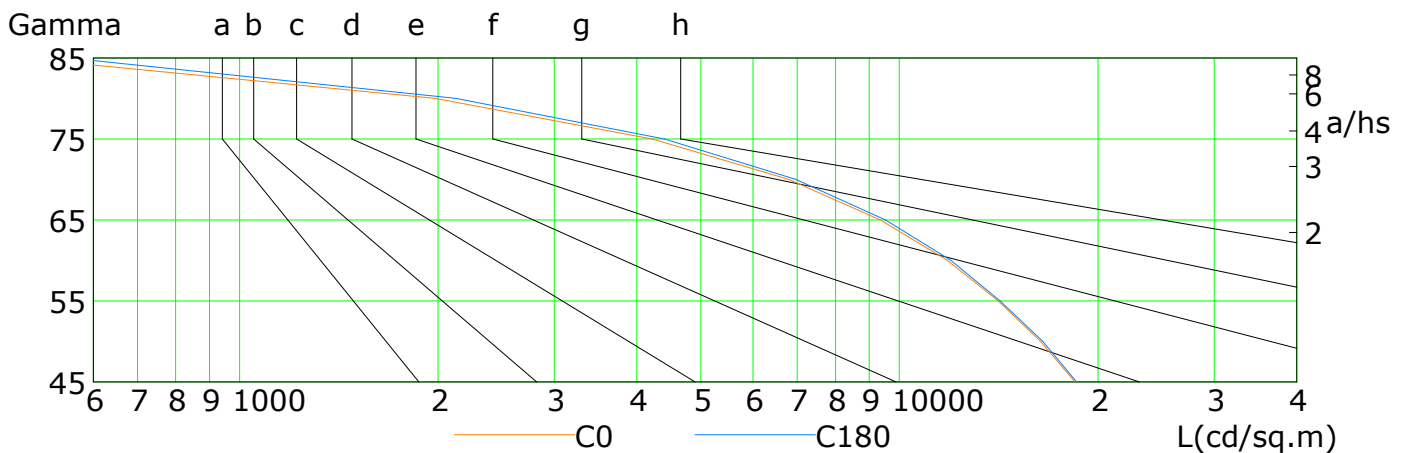
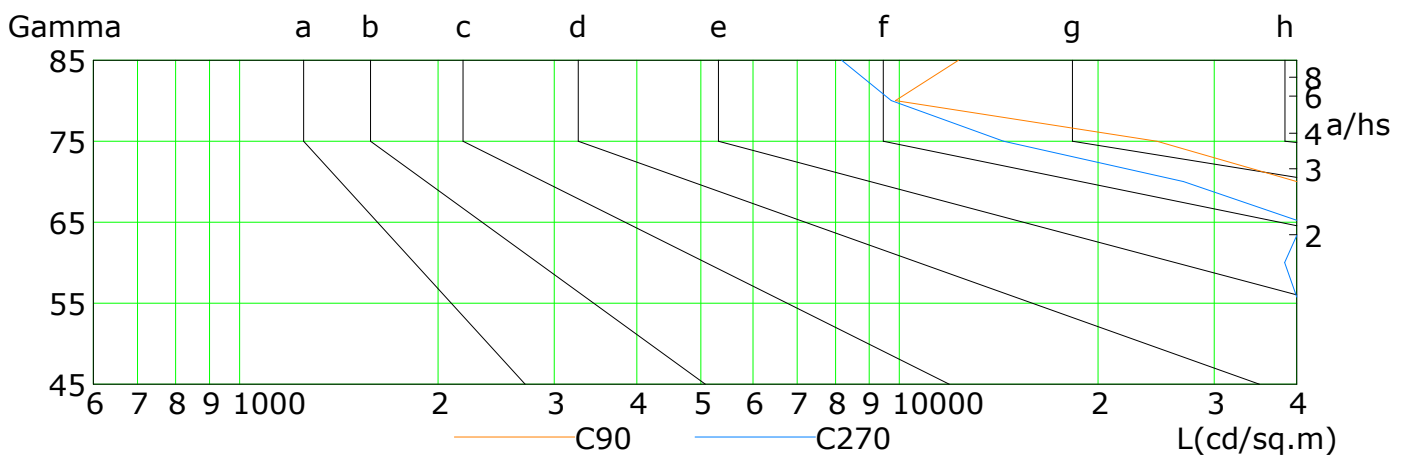
Humidity:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	18460	16353	14109	11826	9364	6789	4222	1976	470
C90	45178	43486	41893	41048	40126	40103	24557	9865	12297
C180	18560	16483	14214	11969	9523	6960	4405	2125	551
C270	42590	41761	40356	38373	40816	26937	14384	9718	8179

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Temperature:

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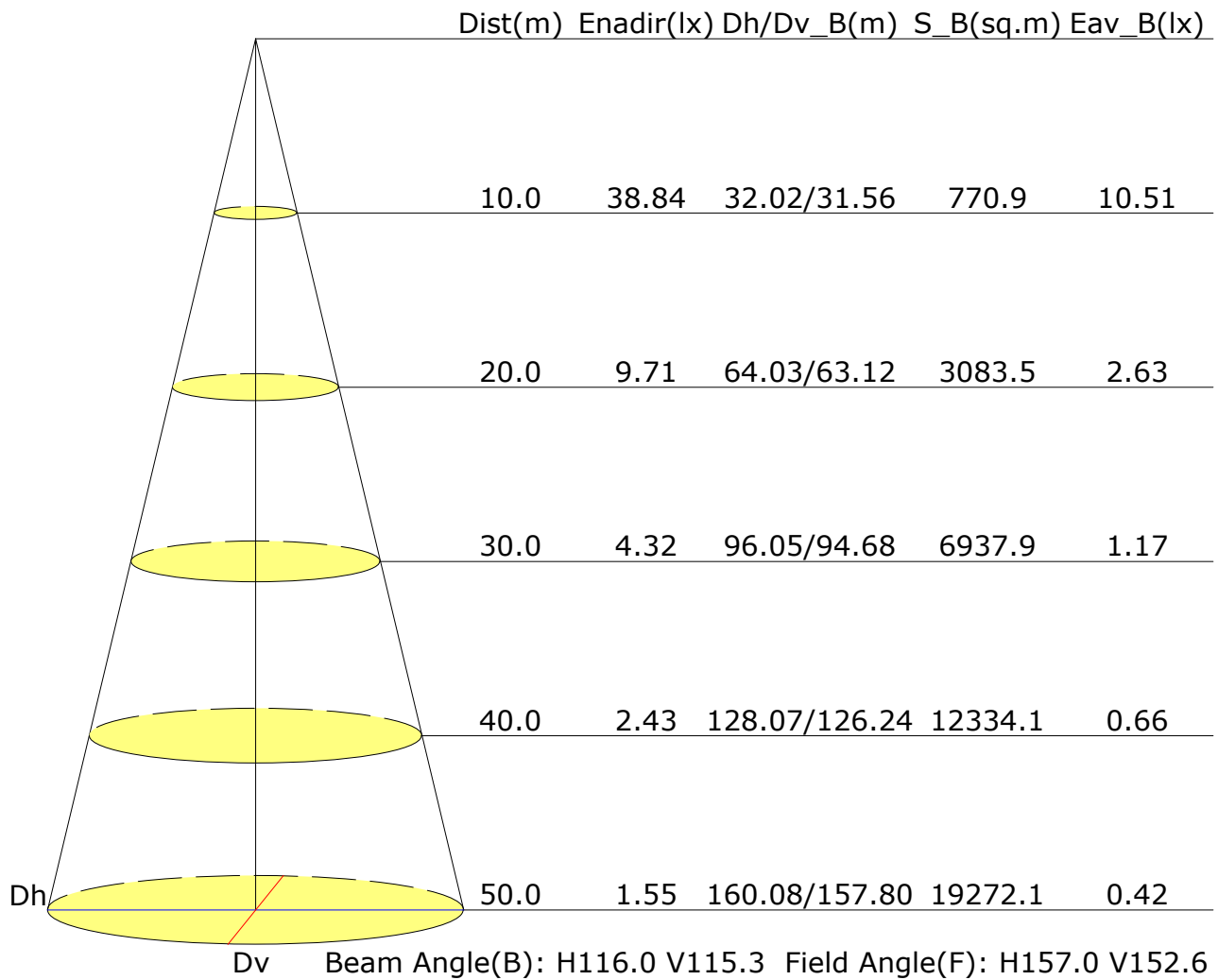
Test Device: LSG-1800B

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

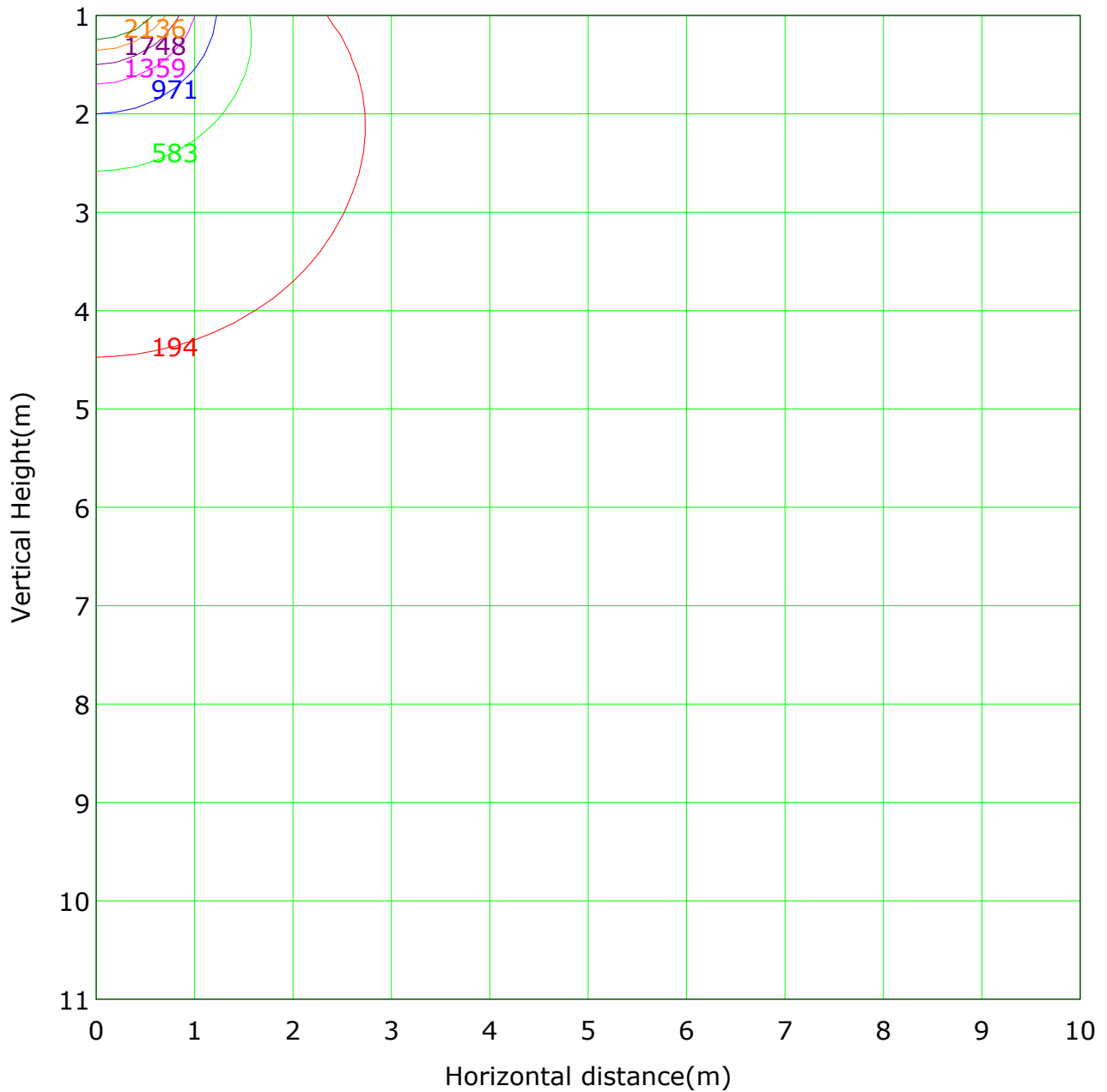
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 3883.8 lx

(5%): 194.2 lx	(15%): 582.6 lx
(25%): 971.0 lx	(35%): 1359.3 lx
(45%): 1747.7 lx	(55%): 2136.1 lx
(65%): 2524.5 lx	

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Test Lab:

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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	5742	50.6
FL (0°-30°)	1536	13.5
FM (30°-60°)	3036	26.8
FH (60°-80°)	1096	9.7
FVH (80°-90°)	73	0.6
BACK LIGHT	5485	48.3
BL (0°-30°)	1517	13.4
BM (30°-60°)	2931	25.8
BH (60°-80°)	981	8.6
BVH (80°-90°)	56	0.5
UP LIGHT	119	1.0
UL (90°-100°)	43	0.4
UH (100°-180°)	76	0.7
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U2 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U2 G1

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