

Report No.: 1

Test Time: 26.11.2018 13:03

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FP 180 34W 5000K Samsung

Lamp Description: LED

Luminous Width (mm): 184

Voltage: 222.3 V

Power: 33.75 W

Luminous Length (mm): 385

Luminous Height (mm): 84

Current: 0.158 A

Power Factor: 0.961

Photometric Results

CIE Class: Direct

Measurement Flux: 4704.8 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 148.4, 119.7, 132.8, 134.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 133.3, 63.3, 74.6, 73.7

Luminaire Efficacy Rating (LER): 139.45

Max. Intensity: 2694.88 cd

S/MH(C0/C180): 2.14

Total Rated Lamp Lumens: 4704.8 lm

Efficiency: 100%

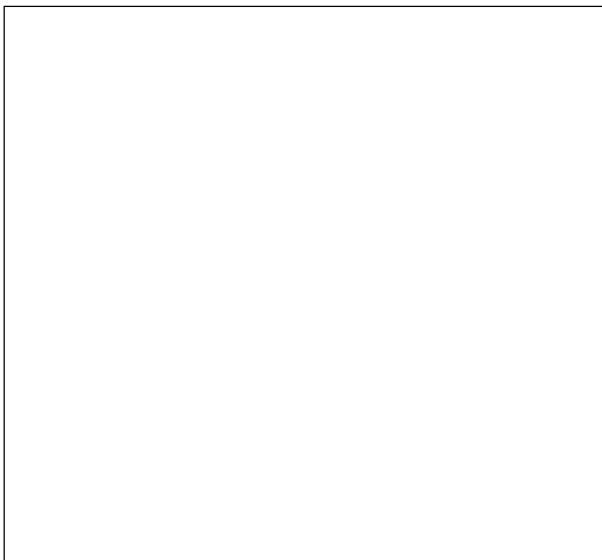
Upward Ratio: 1%

Central Intensity: 1119.68 cd

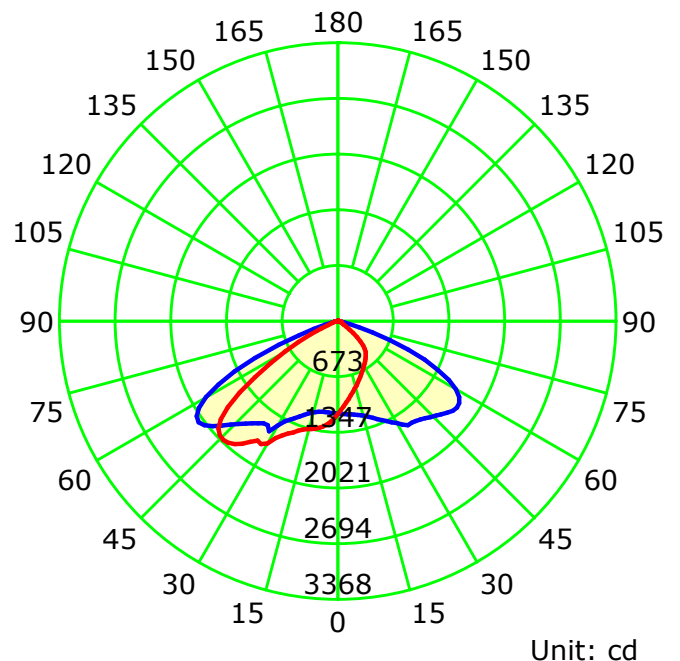
Pos of Max. Intensity: H200 V54

S/MH(C90/C270): 1.66

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

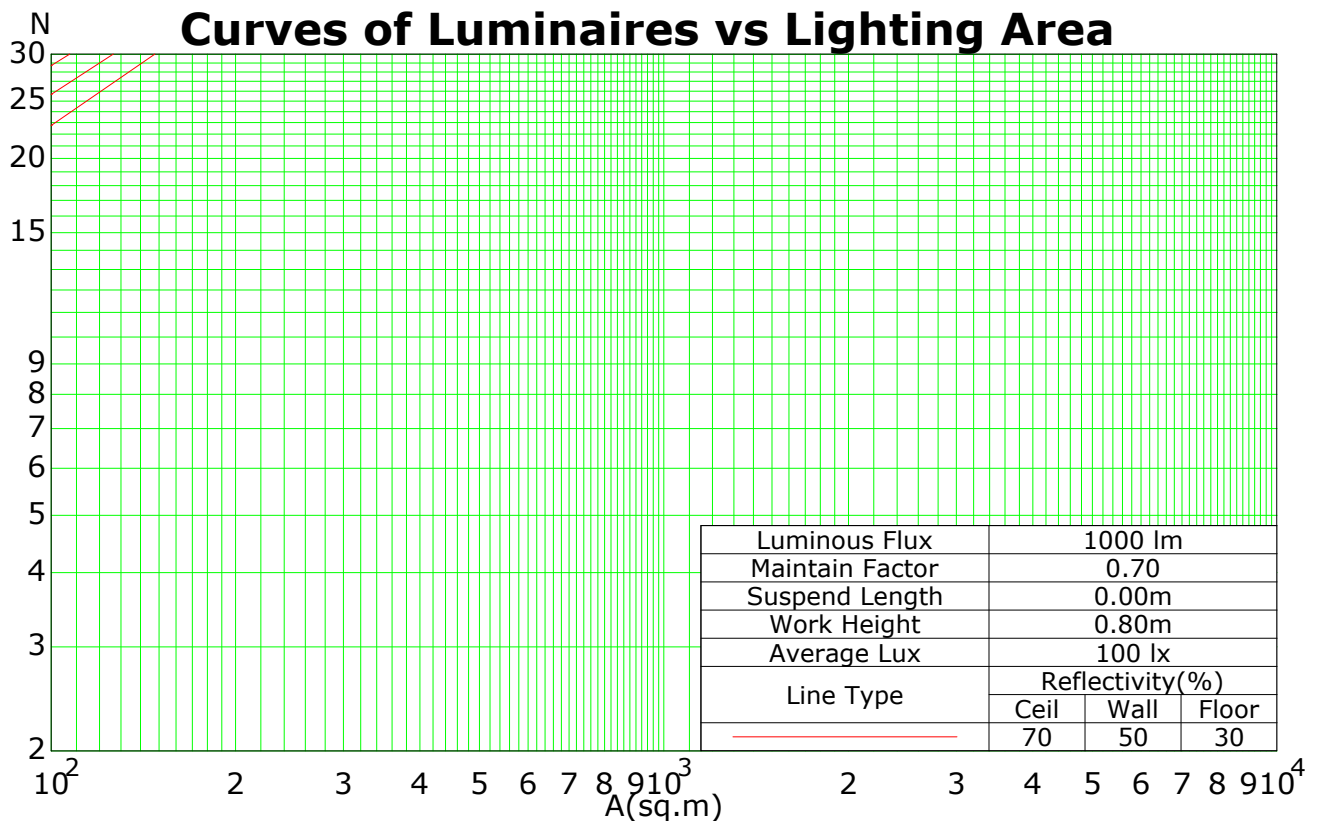
Humidity:

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	105	101	98	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	78	75	80	76	73	71
3	90	80	72	65	88	78	71	65	75	69	64	72	67	62	70	65	61	59
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	55	49	44	42
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	58	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24
10	51	37	29	23	49	36	29	23	35	28	23	34	28	23	33	27	23	21

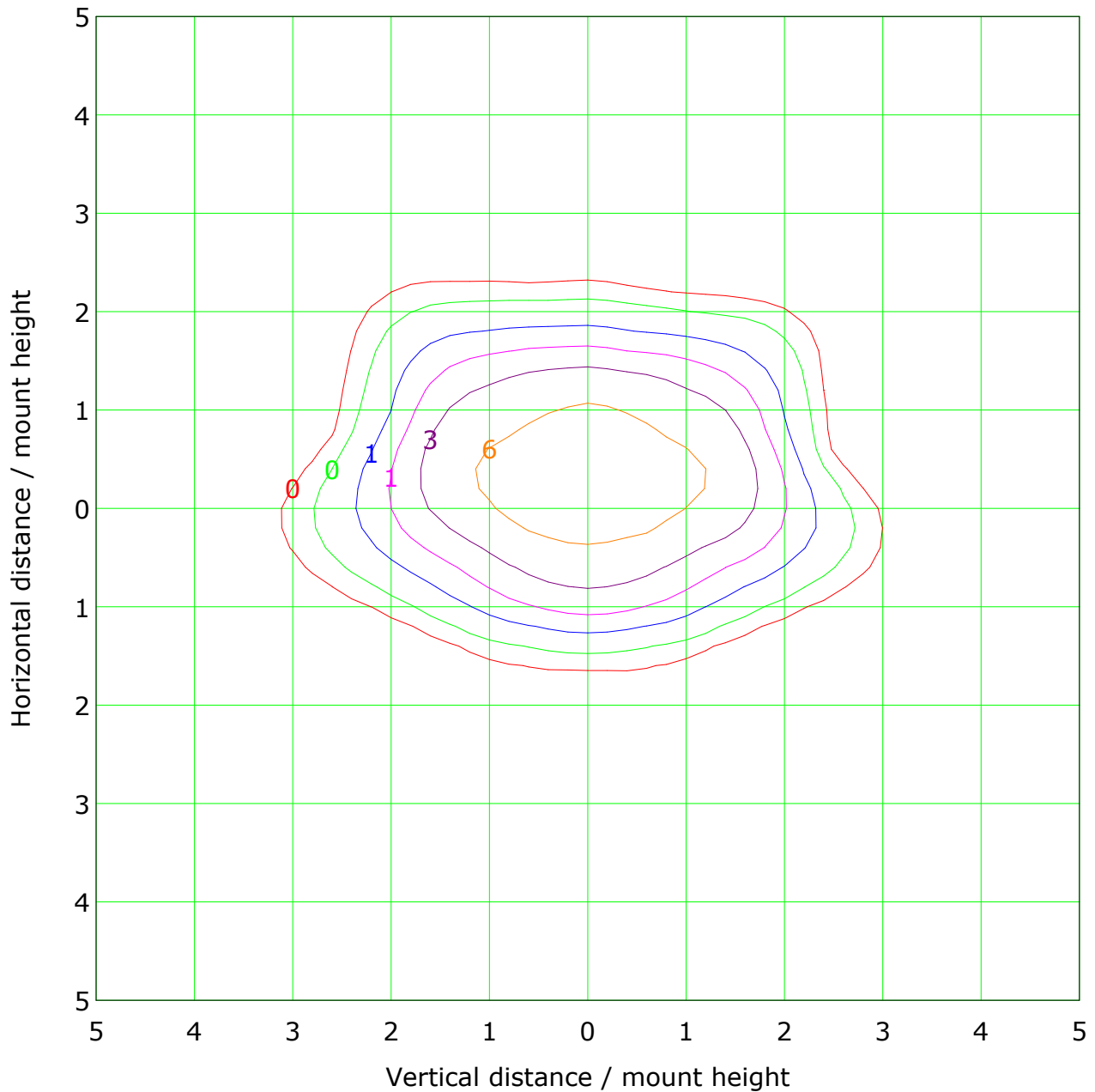
Spacing Criteria (0-180): 2.14
 Spacing Criteria (90-270): 1.66
 Spacing Criteria (Diagonal): 1.84



C Plane (°):0.0-360.0: 5.0
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 Test Device: LSG-1800B
 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 12.6 lx

(1%): 0.1 lx	(2%): 0.3 lx
(5%): 0.6 lx	(10%): 1.3 lx
(20%): 2.5 lx	(50%): 6.3 lx
(100%): 12.6 lx	

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

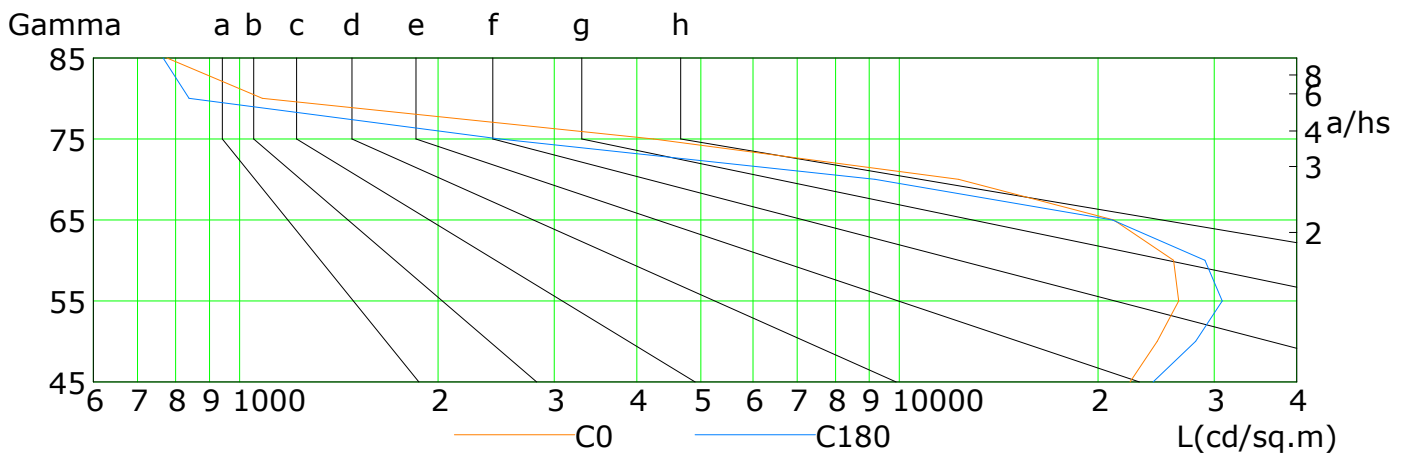
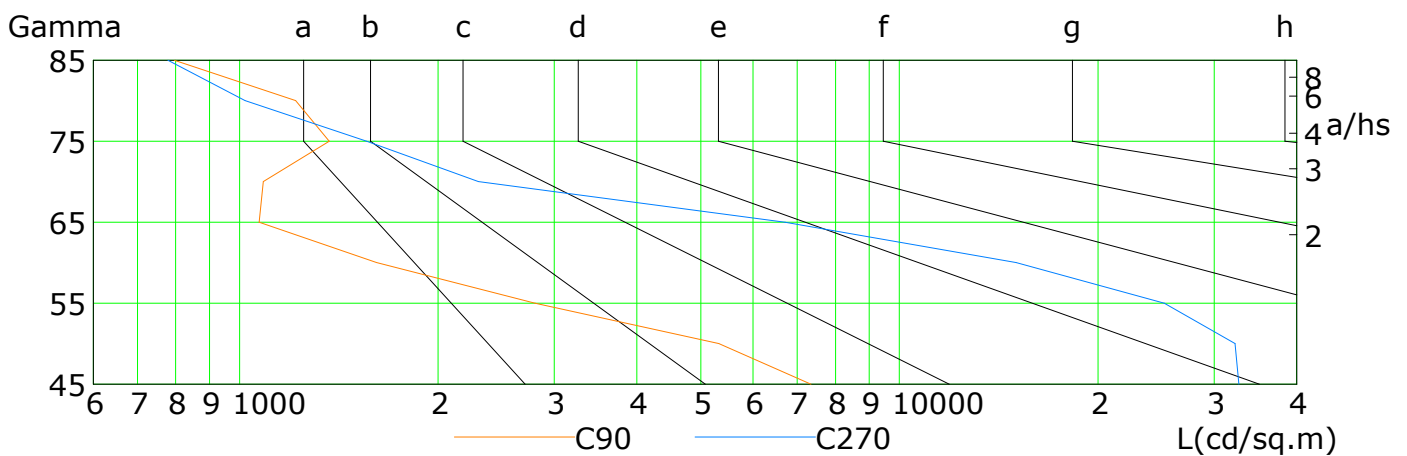
Humidity:

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	22363	24581	26497	26046	21117	12285	4240	1083	776
C90	7343	5322	2804	1613	1070	1086	1367	1216	796
C180	24234	28120	30862	29056	21027	9185	2481	838	766
C270	32686	32253	25197	15024	6708	2300	1558	1019	779

C Plane (°):0.0-360.0: 5.0

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Test Type: TYPE C

Temperature:

Operator:

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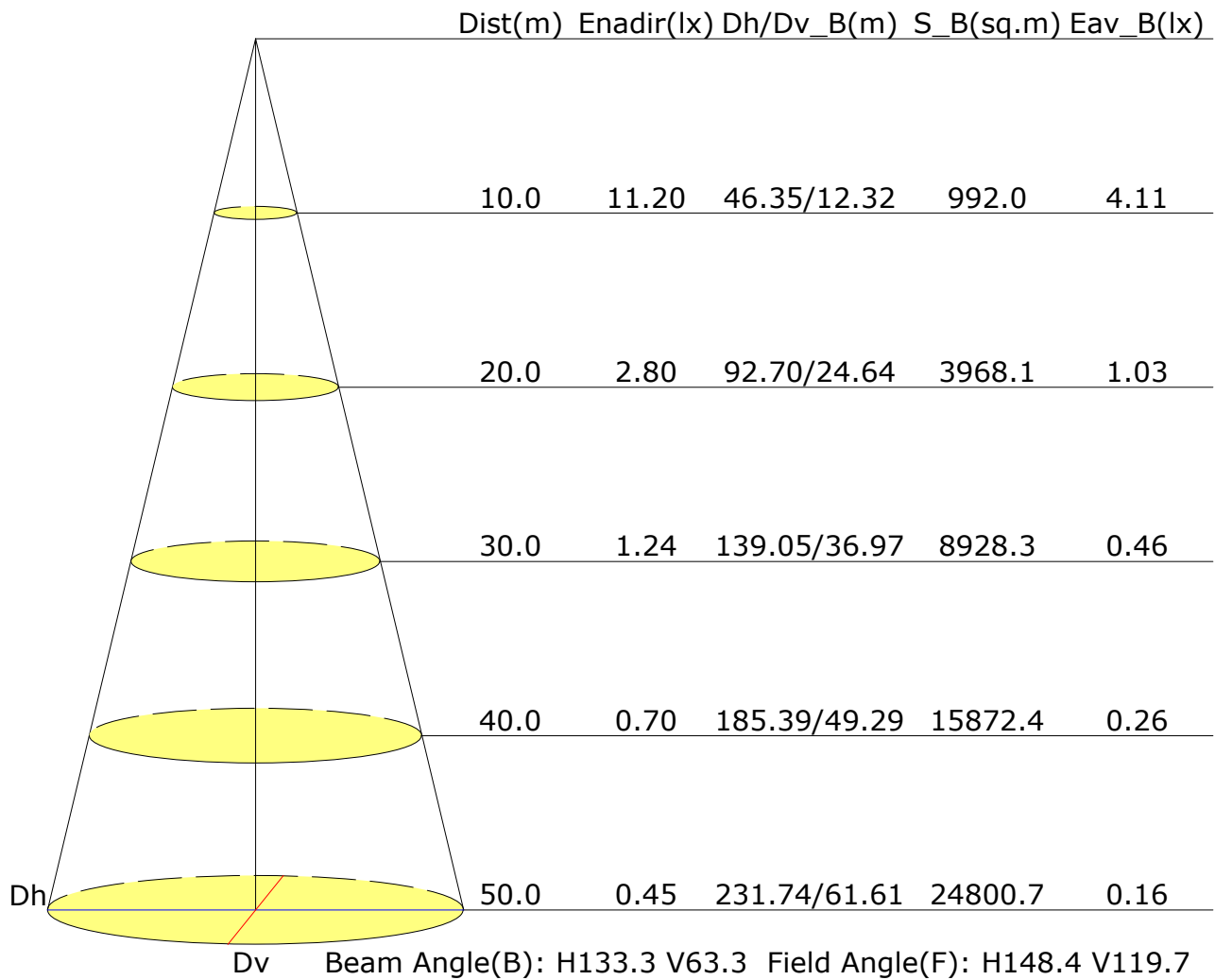
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

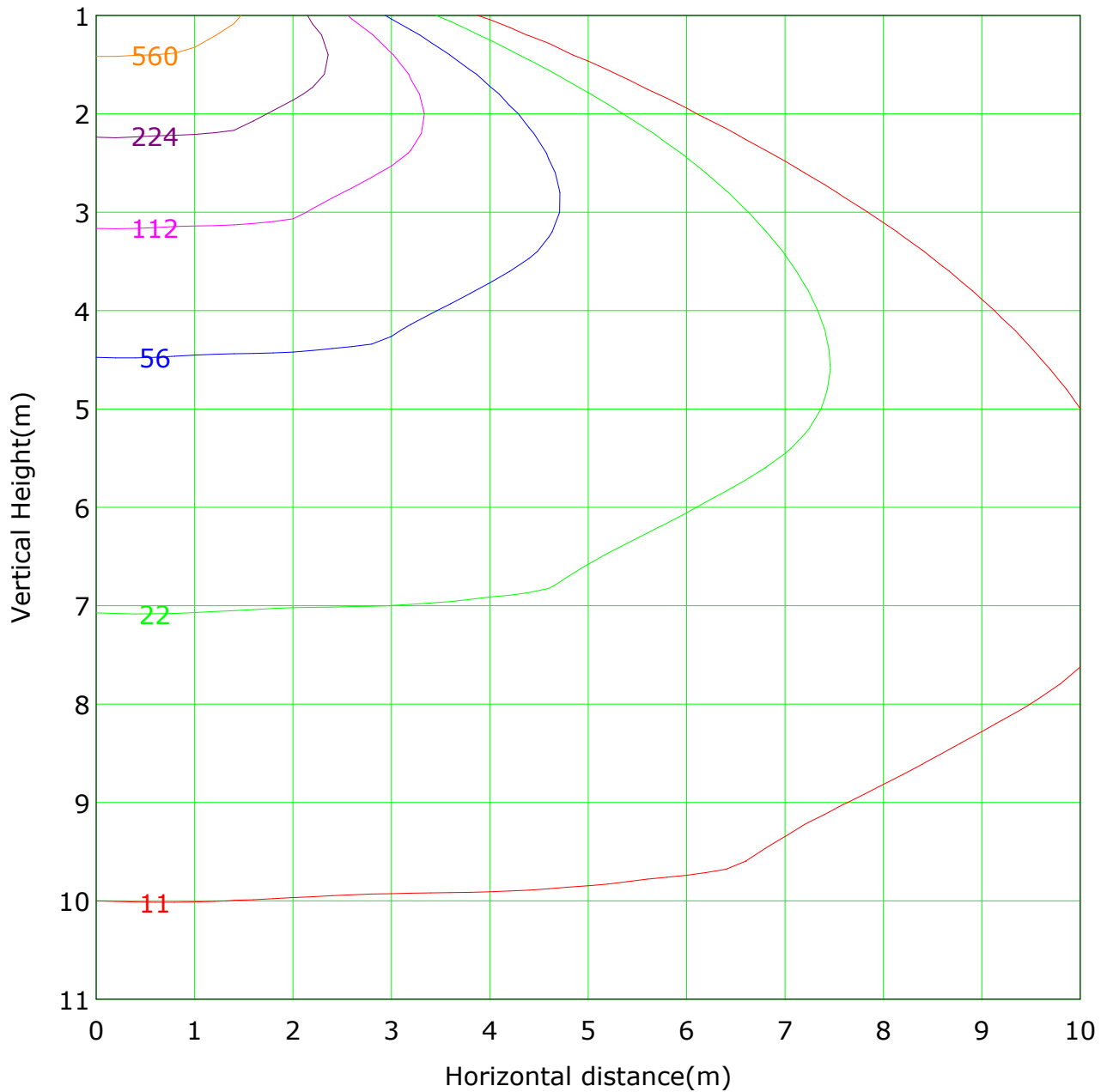
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1119.7 lx
 (1%): 11.2 lx (2%): 22.4 lx
 (5%): 56.0 lx (10%): 112.0 lx
 (20%): 223.9 lx (50%): 559.8 lx
 (100%): 1119.7 lx

C Plane (°): 0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°): 0.0-180.0: 2.0

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	1401	29.8
FL (0°-30°)	388	8.2
FM (30°-60°)	809	17.2
FH (60°-80°)	191	4.1
FVH (80°-90°)	12	0.3
BACK LIGHT	3279	69.7
BL (0°-30°)	598	12.7
BM (30°-60°)	2189	46.5
BH (60°-80°)	479	10.2
BVH (80°-90°)	13	0.3
UP LIGHT	25	0.5
UL (90°-100°)	5	0.1
UH (100°-180°)	19	0.4
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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