

Report No.:

Test Time: 14.05.2019 14:09

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 50 4x25LED 0,45A 55W 5000K opal

Luminous Length (mm): 1245

Luminous Width (mm): 55

Luminous Height (mm): 90

Voltage: 222.1 V

Current: 0.248 A

Power: 54.79 W

Power Factor: 0.991

Photometric Results

CIE Class: Direct

Measurement Flux: 4154.7 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4154.7 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.1, 160.5, 161.8, 161.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.8, 110.6, 111.4, 111.3

Luminaire Efficacy Rating (LER): 75.88

Central Intensity: 1466.22 cd

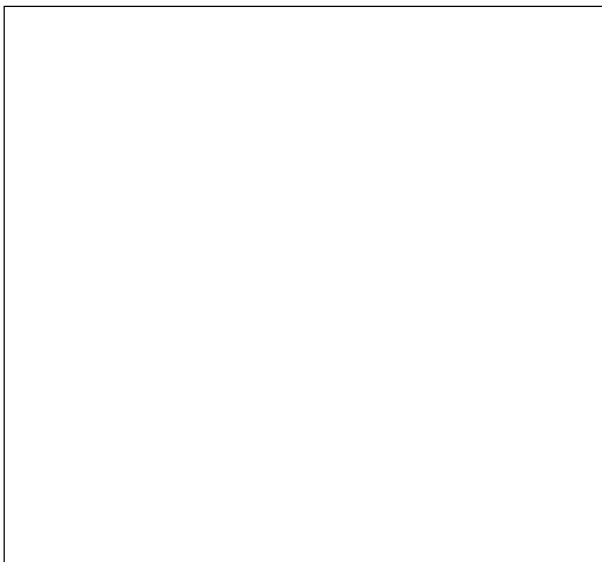
Max. Intensity: 1466.22 cd

Pos of Max. Intensity: H0 V0

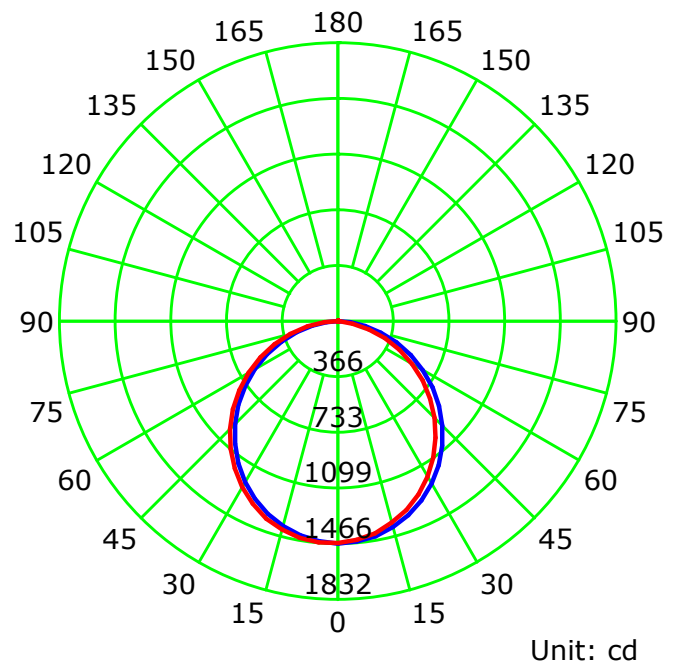
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.24

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

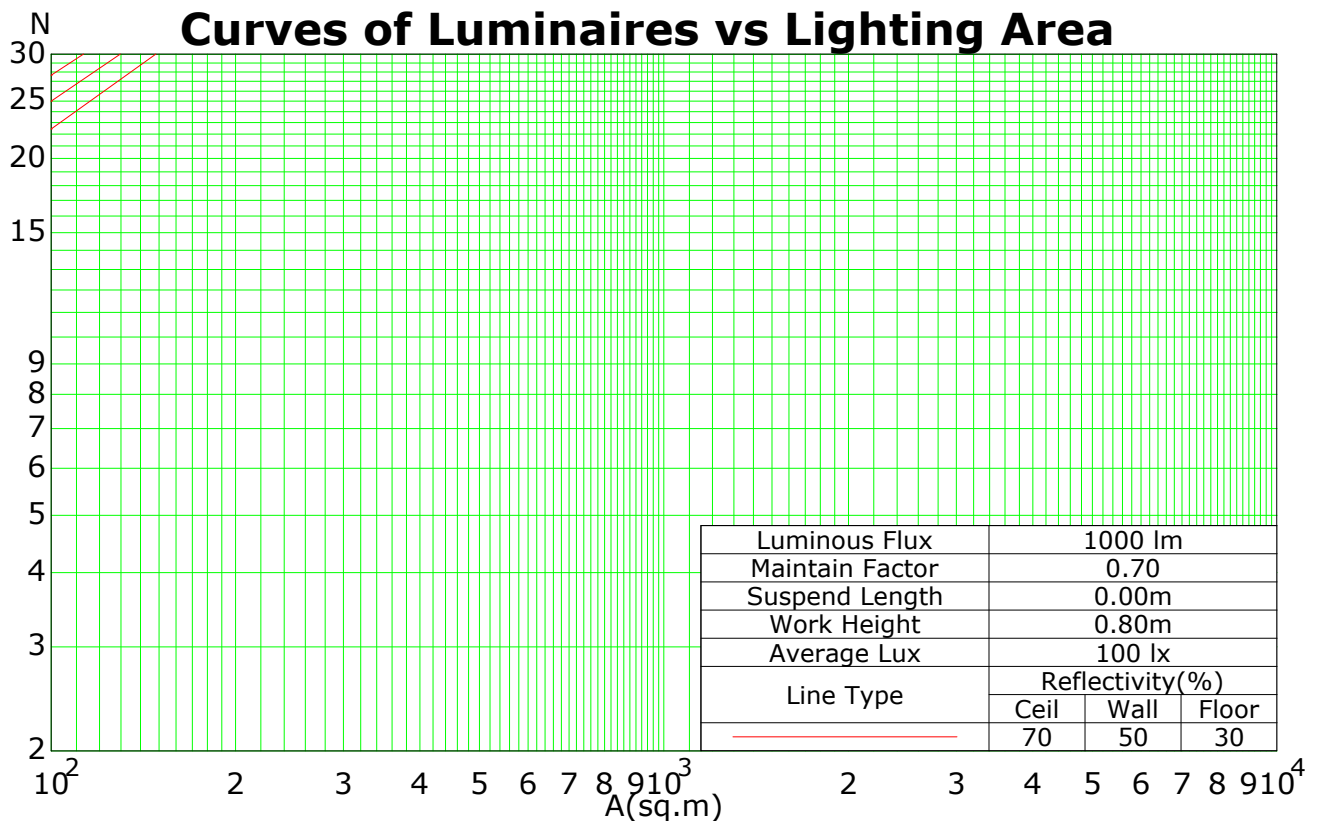
Humidity:

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	100
1	109	104	99	96	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	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	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	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

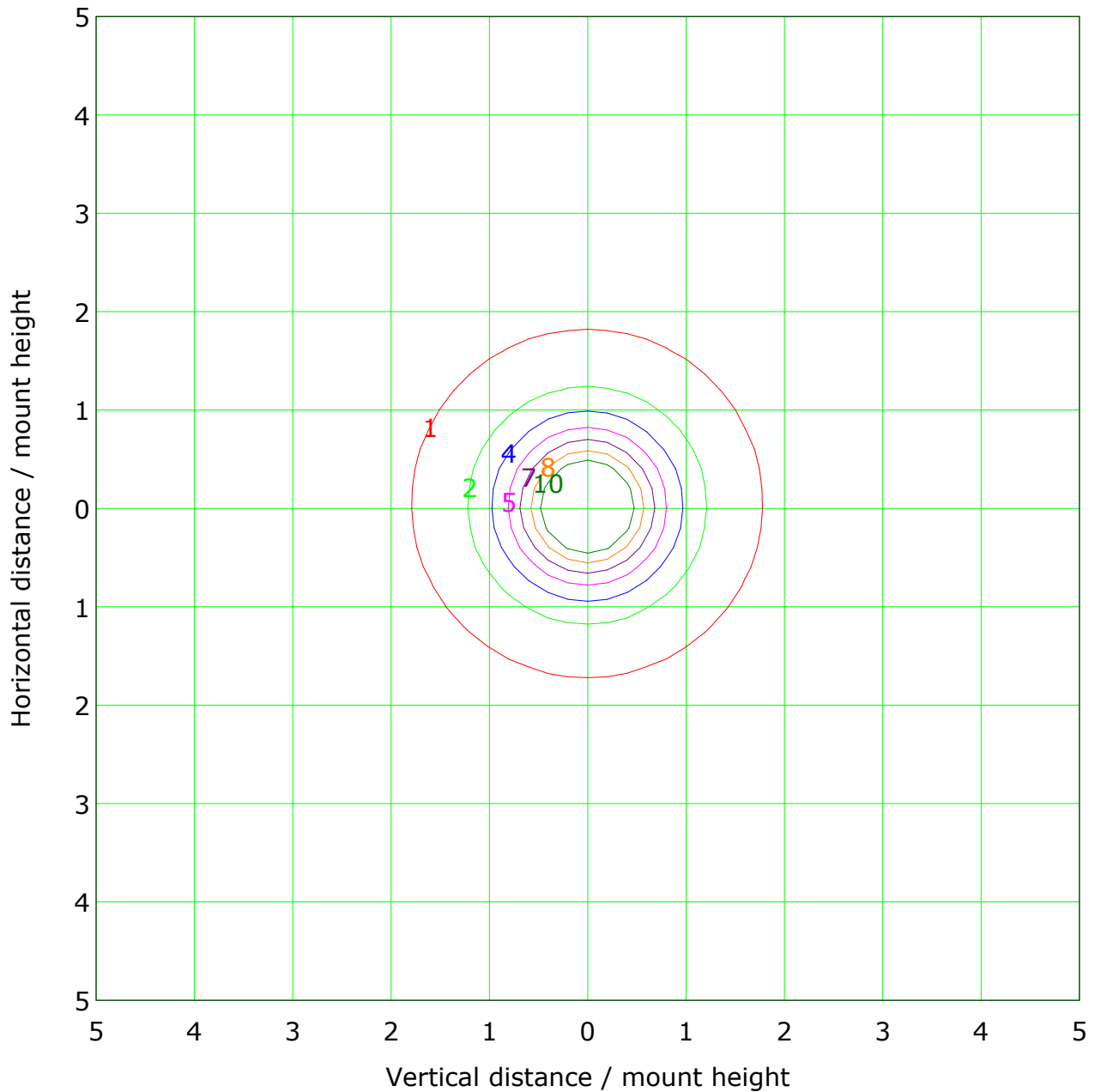
Spacing Criteria (0-180): 1.25
 Spacing Criteria (90-270): 1.24
 Spacing Criteria (Diagonal): 1.36



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

IsoLux Plot



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

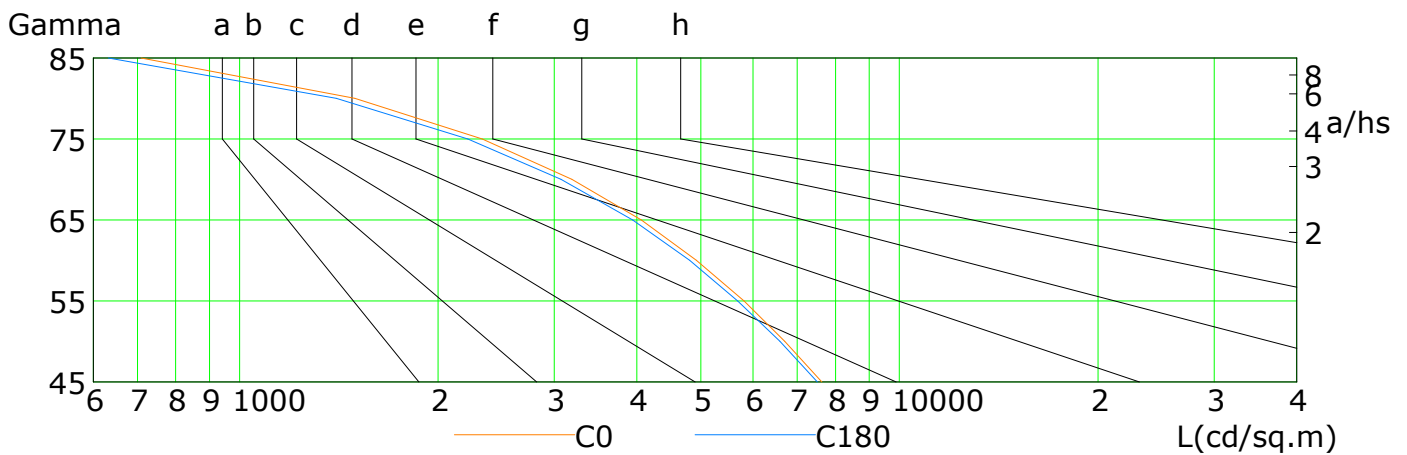
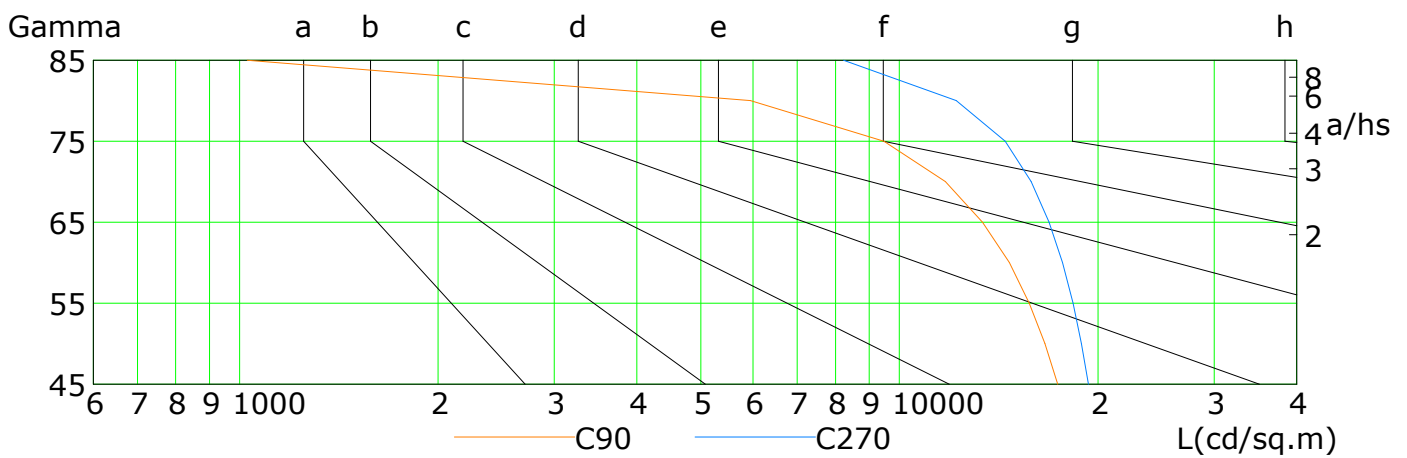
Humidity:

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	7630	6699	5814	4926	4062	3188	2333	1495	709
C90	17374	16619	15735	14684	13372	11746	9474	5948	1028
C180	7512	6593	5687	4811	3940	3068	2218	1401	632
C270	19353	18884	18332	17668	16865	15837	14468	12195	8229

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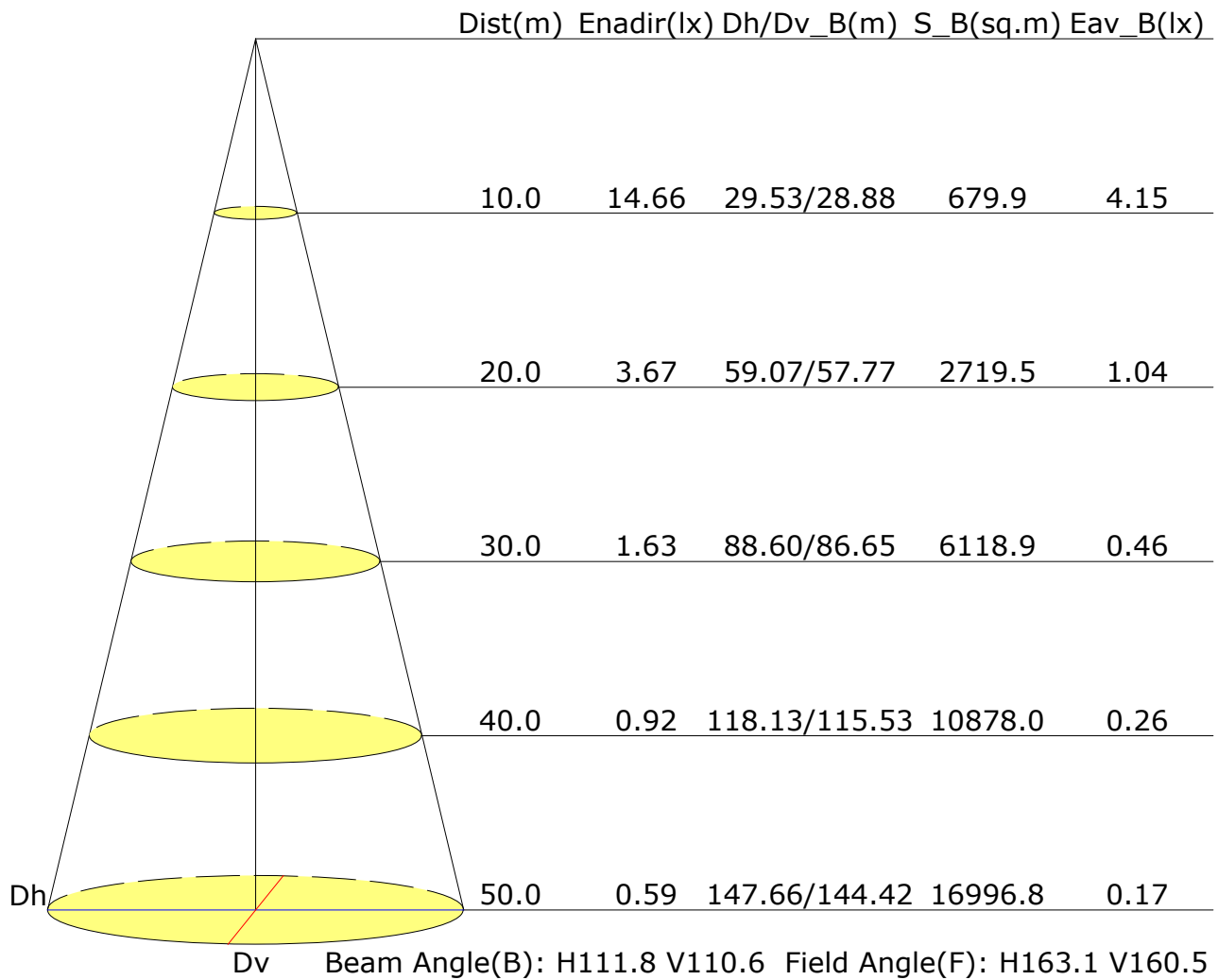
Test Device: LSG-1800B

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

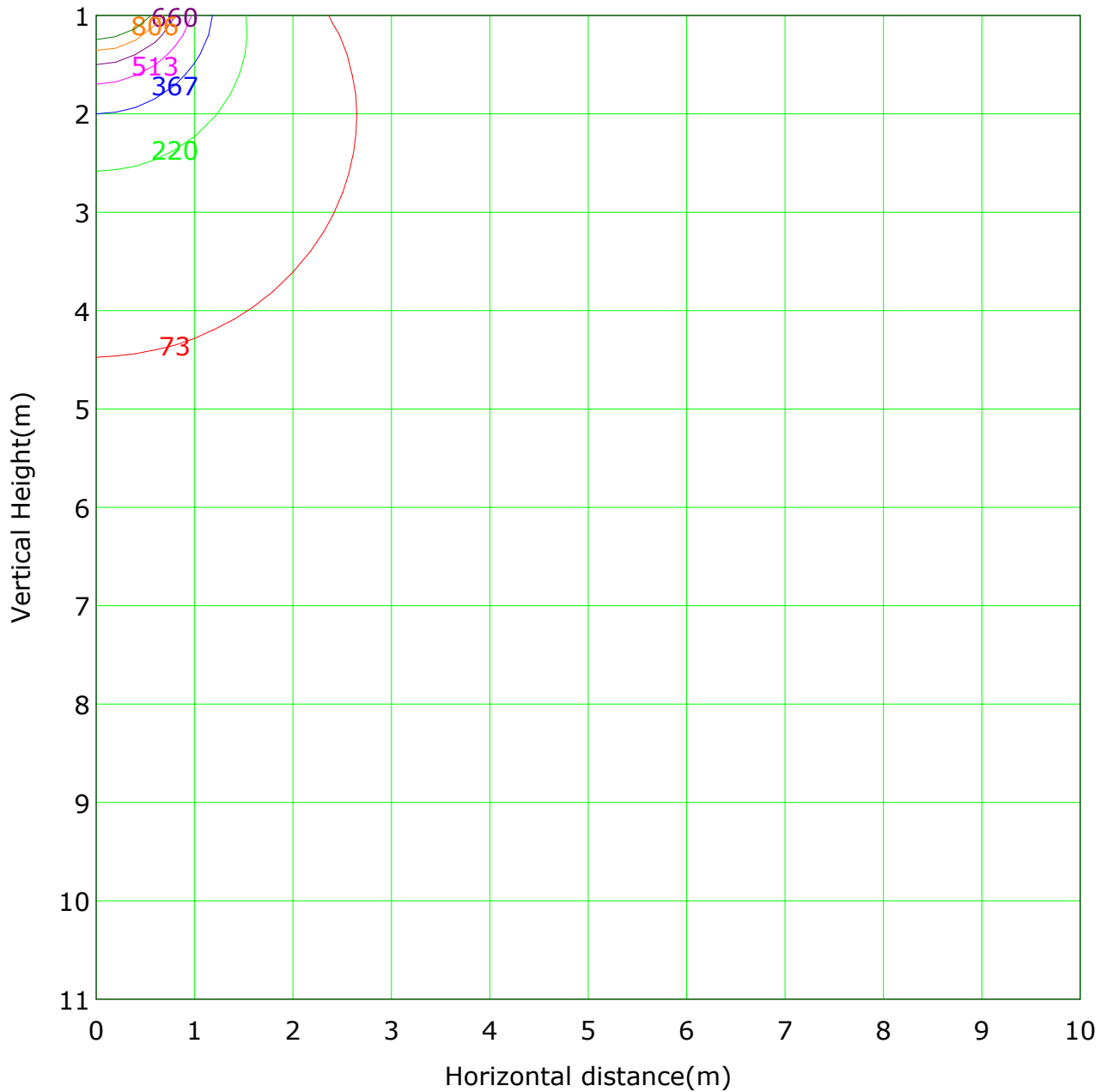
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1466.2 lx

(5%): 73.3 lx	(15%): 219.9 lx
(25%): 366.6 lx	(35%): 513.2 lx
(45%): 659.8 lx	(55%): 806.4 lx
(65%): 953.0 lx	

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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	1977	47.6
FL (0°-30°)	558	13.4
FM (30°-60°)	1026	24.7
FH (60°-80°)	366	8.8
FVH (80°-90°)	28	0.7
BACK LIGHT	2160	52.0
BL (0°-30°)	572	13.8
BM (30°-60°)	1098	26.4
BH (60°-80°)	437	10.5
BVH (80°-90°)	52	1.3
UP LIGHT	17	0.4
UL (90°-100°)	3	0.1
UH (100°-180°)	15	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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