

Report No.: 1

Test Time: 24.05.2019 14:45

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 1500 Å30 4x30LED 0,6A 75W 4000K

Lamp Description: LED

Luminous Width (mm): 115

Voltage: 221.5 V

Power: 79.59 W

Luminous Length (mm): 1500

Luminous Height (mm): 64

Current: 0.366 A

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Measurement Flux: 8012.9 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.2, 152.0, 161.3, 154.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.5, 108.8, 110.8, 110.7

Luminaire Efficacy Rating (LER): 100.73

Max. Intensity: 2940.56 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 8012.9 lm

Efficiency: 100%

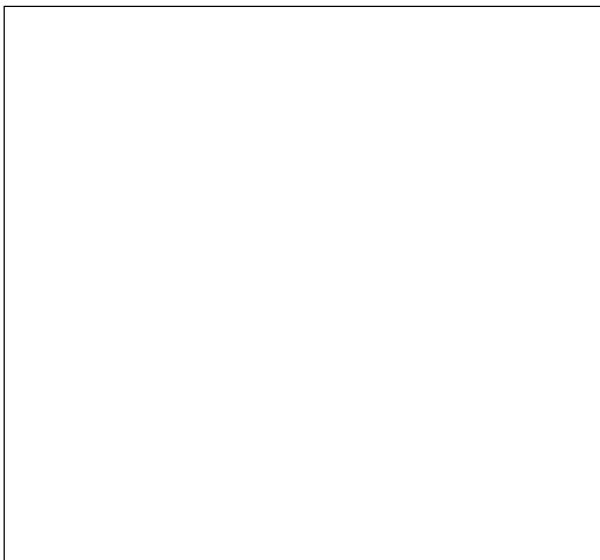
Upward Ratio: 1%

Central Intensity: 2765.25 cd

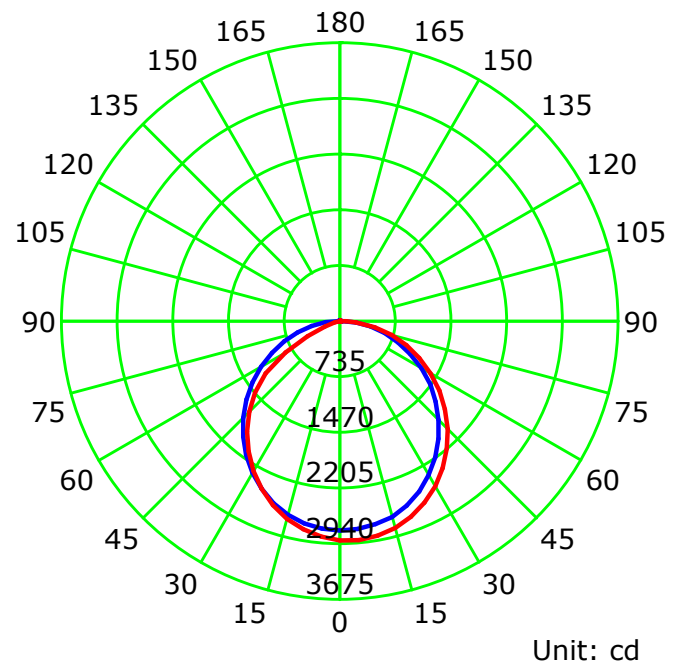
Pos of Max. Intensity: H157.5 V0

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

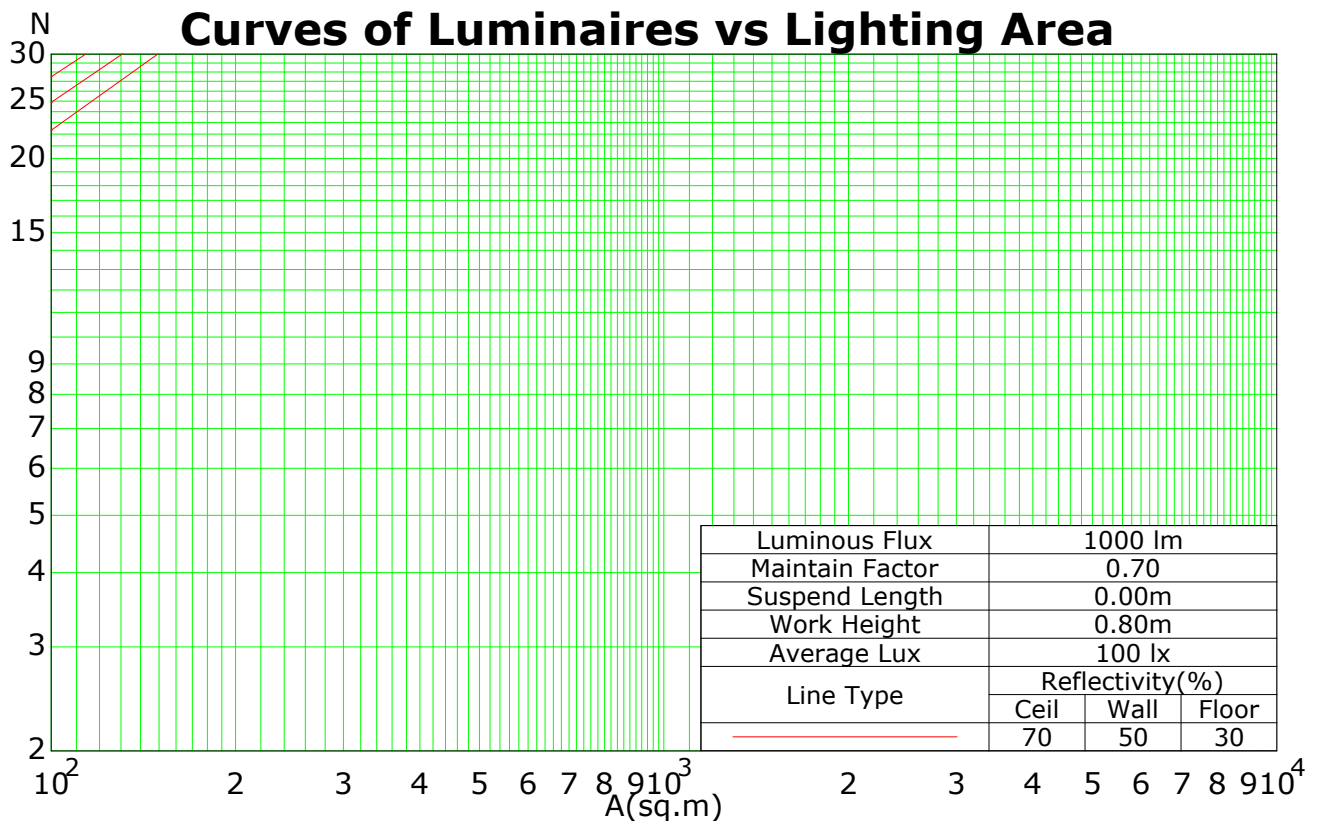
Humidity:

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	111	111	111	106	106	106	101	101	101	99
1	109	104	100	96	106	101	98	94	97	94	91	93	90	88	89	87	85	83
2	99	91	84	78	96	89	82	77	85	80	75	81	77	73	78	75	71	69
3	90	80	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	62	55	80	69	61	55	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	45	40	38
7	65	51	43	37	63	51	42	36	49	41	36	47	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	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

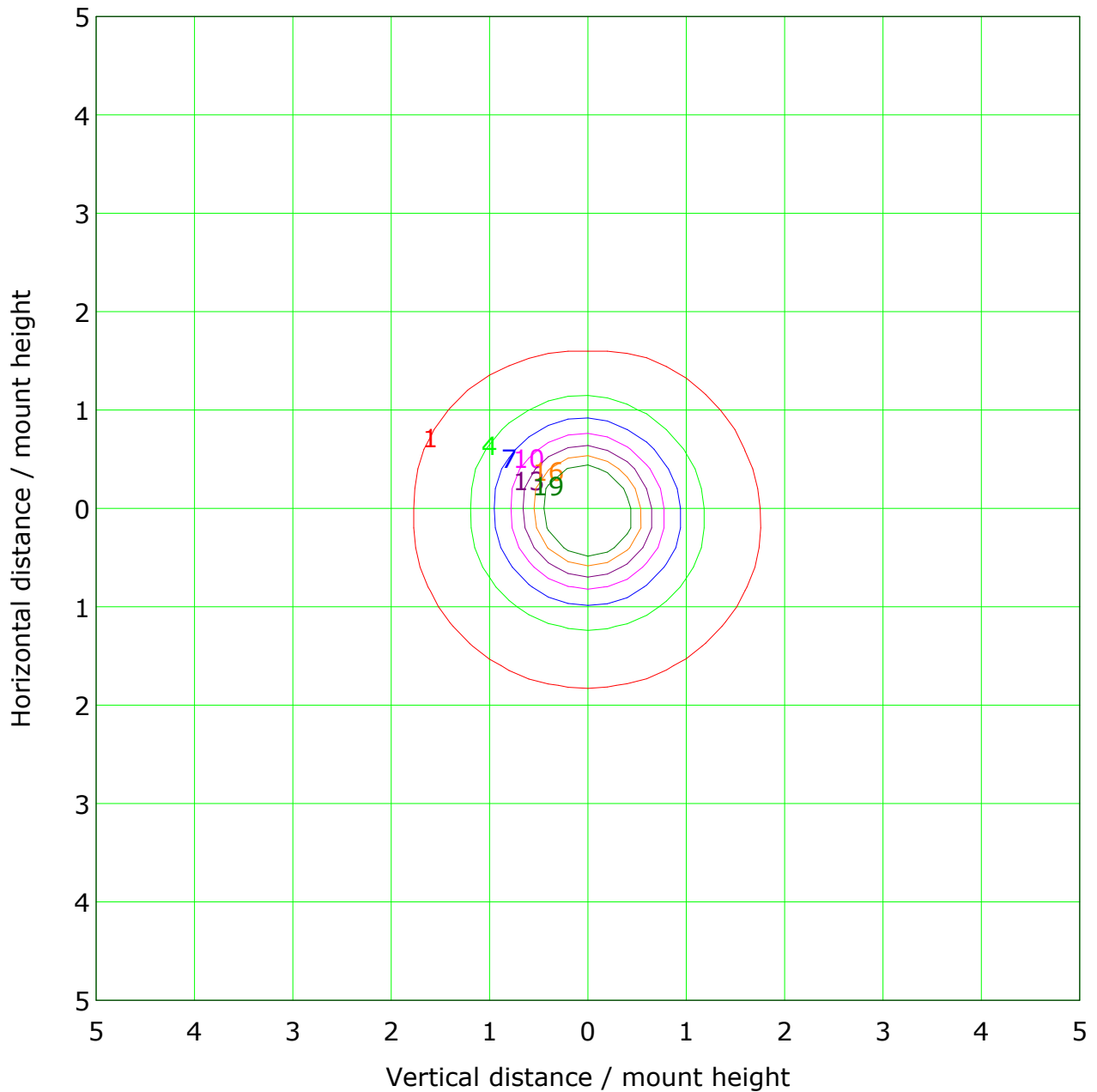
Spacing Criteria (0-180): 1.25
 Spacing Criteria (90-270): 1.23
 Spacing Criteria (Diagonal): 1.38



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 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 29.4 lx	
(5%): 1.5 lx	(15%): 4.4 lx
(25%): 7.4 lx	(35%): 10.3 lx
(45%): 13.2 lx	(55%): 16.2 lx
(65%): 19.1 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

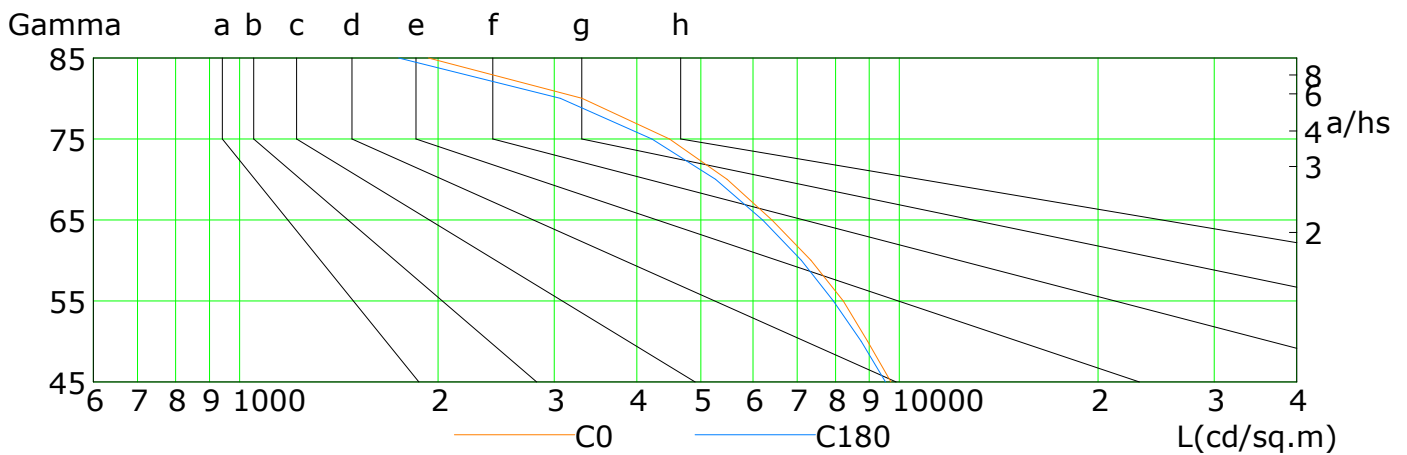
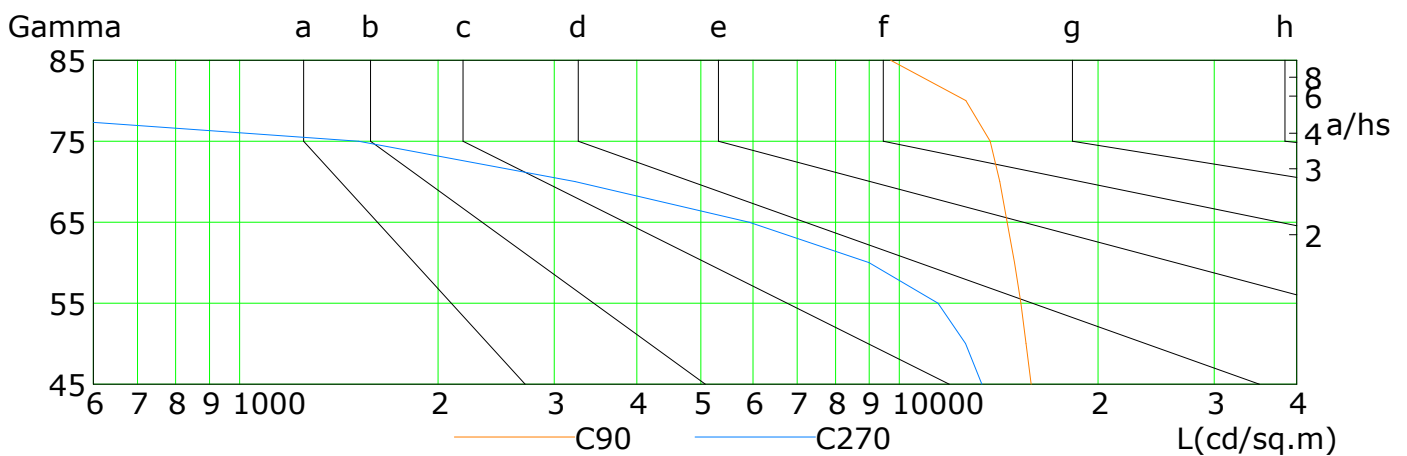
Humidity:

Inspector:

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	9713	8951	8225	7347	6409	5483	4485	3304	1934
C90	15845	15558	15283	14950	14557	14201	13730	12608	9699
C180	9531	8751	7939	7102	6202	5265	4213	3063	1742
C270	13334	12590	11444	8986	5917	3225	1516	209	65

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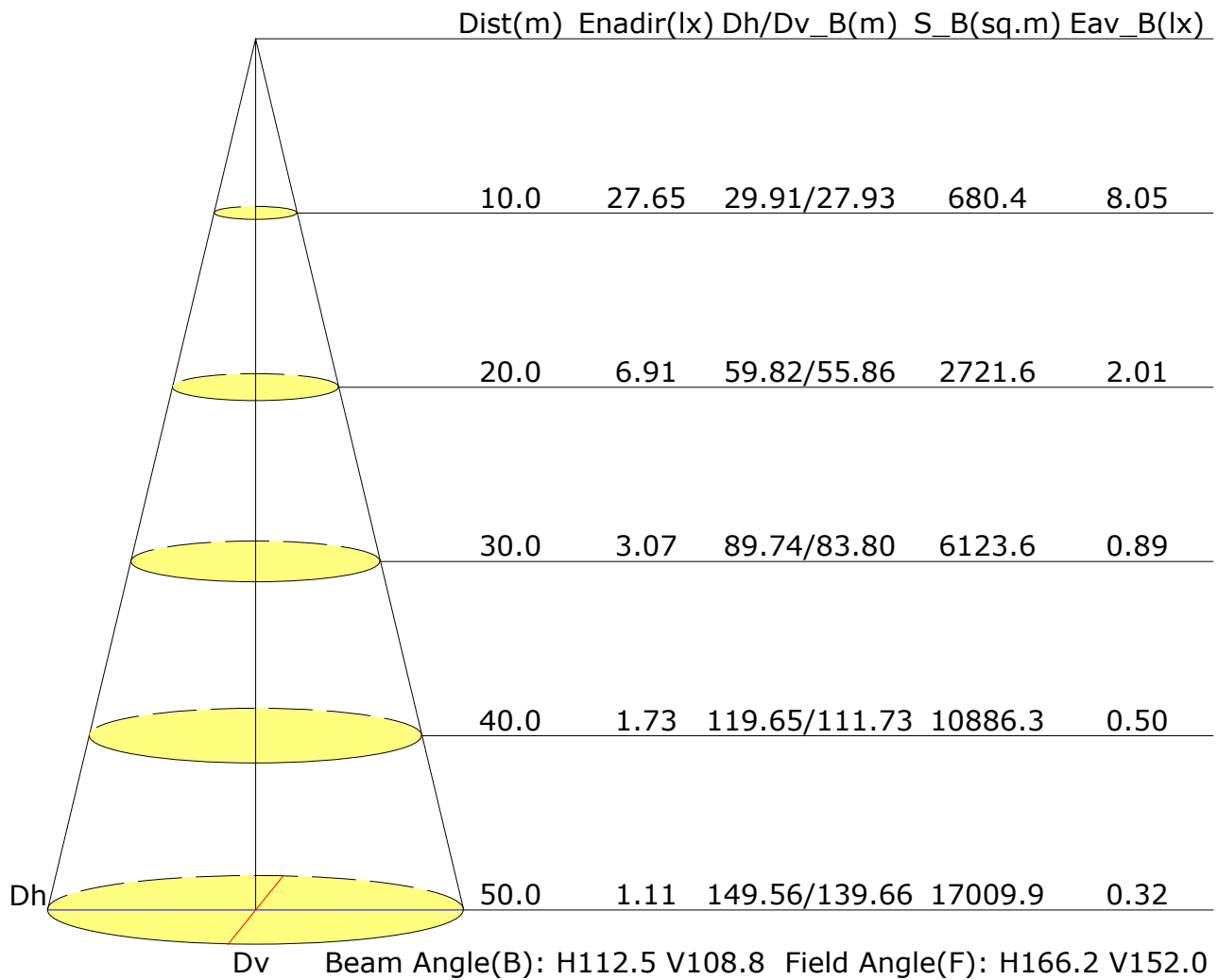
Test Device: LSG-1800B

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

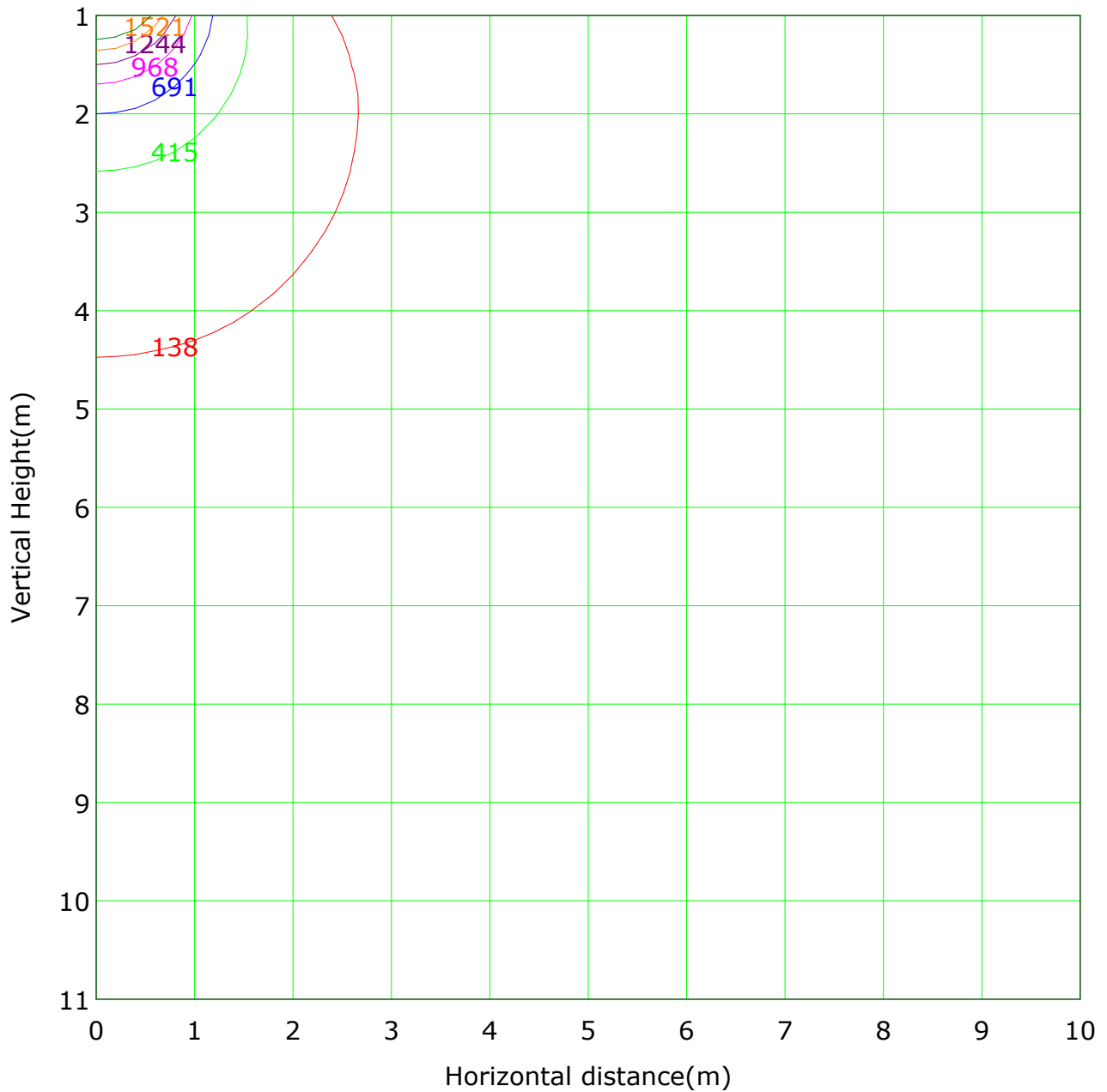
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2765.3 lx

(5%): 138.3 lx	(15%): 414.8 lx
(25%): 691.3 lx	(35%): 967.8 lx
(45%): 1244.4 lx	(55%): 1520.9 lx
(65%): 1797.4 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	4370	54.5
FL (0°-30°)	1127	14.1
FM (30°-60°)	2184	27.3
FH (60°-80°)	921	11.5
FVH (80°-90°)	138	1.7
BACK LIGHT	3580	44.7
BL (0°-30°)	1080	13.5
BM (30°-60°)	1930	24.1
BH (60°-80°)	542	6.8
BVH (80°-90°)	28	0.4
UP LIGHT	63	0.8
UL (90°-100°)	22	0.3
UH (100°-180°)	40	0.5
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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