

Report No.: 1

Test Time: 13.02.2019 15:49

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 80LED 0,764A 100W 5000K

Lamp Description: LED

Luminous Width (mm): 60

Voltage: 221.7 V

Power: 98.37 W

Luminous Length (mm): 1550

Luminous Height (mm): 83

Current: 0.450 A

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Measurement Flux: 13679.4 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.8, 158.2, 150.8, 151.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.6, 124.4, 117.4, 117.4

Luminaire Efficacy Rating (LER): 139.11

Max. Intensity: 4588.34 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 13679.4 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 4508.08 cd

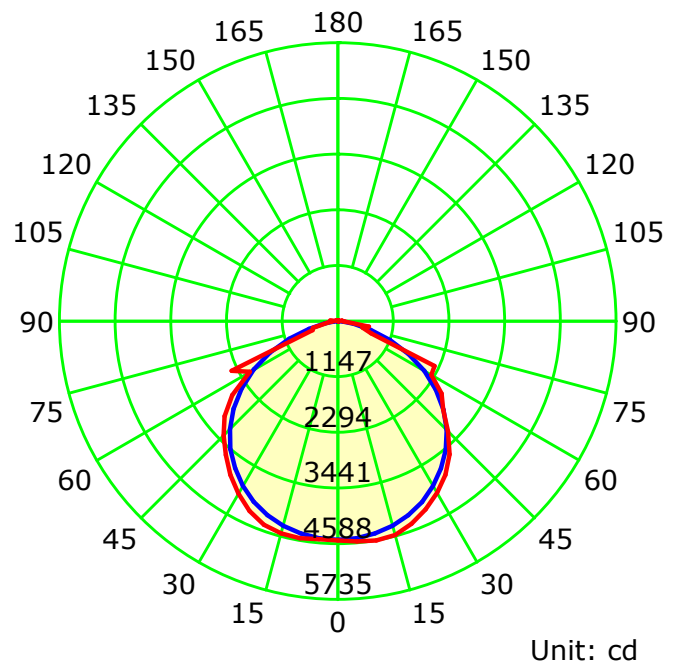
Pos of Max. Intensity: H90 V10

S/MH(C90/C270): 1.33

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

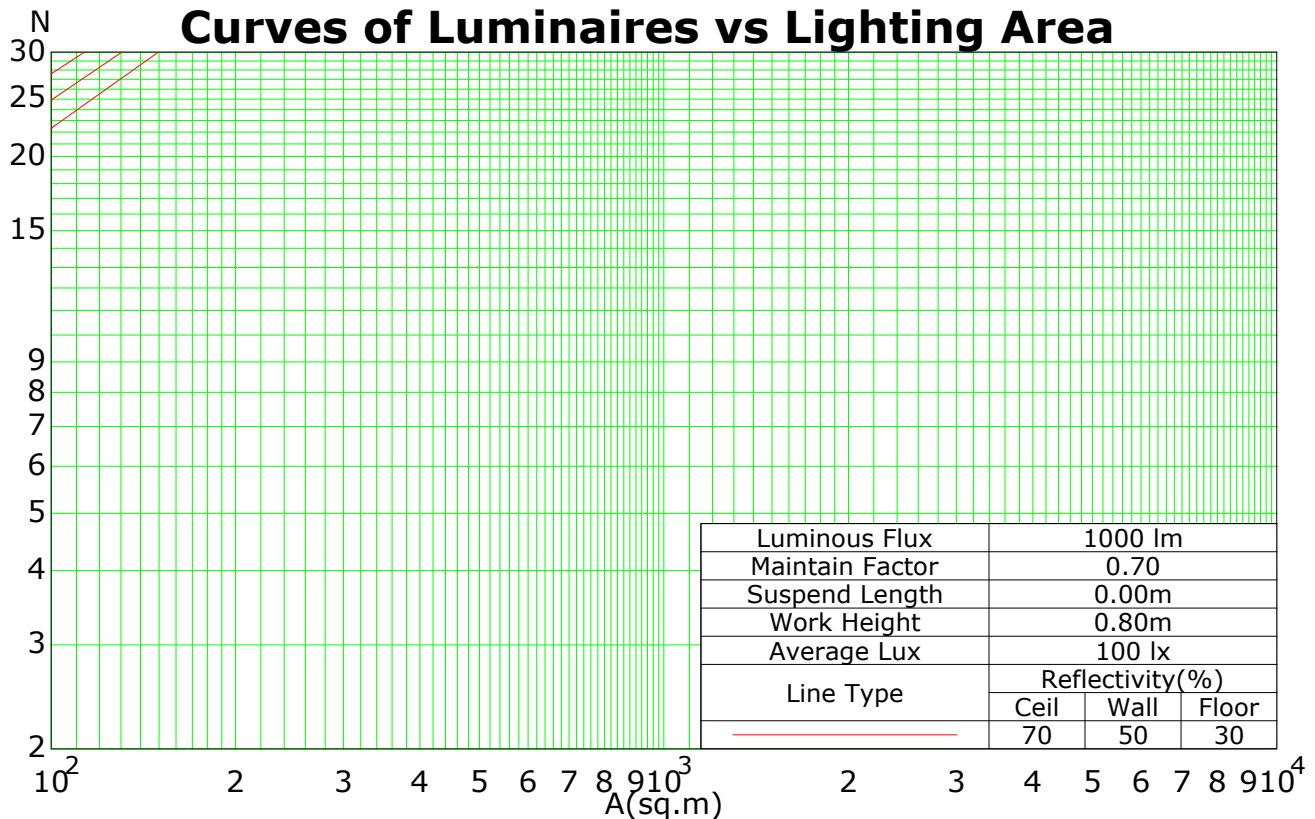
Humidity:

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	70	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	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

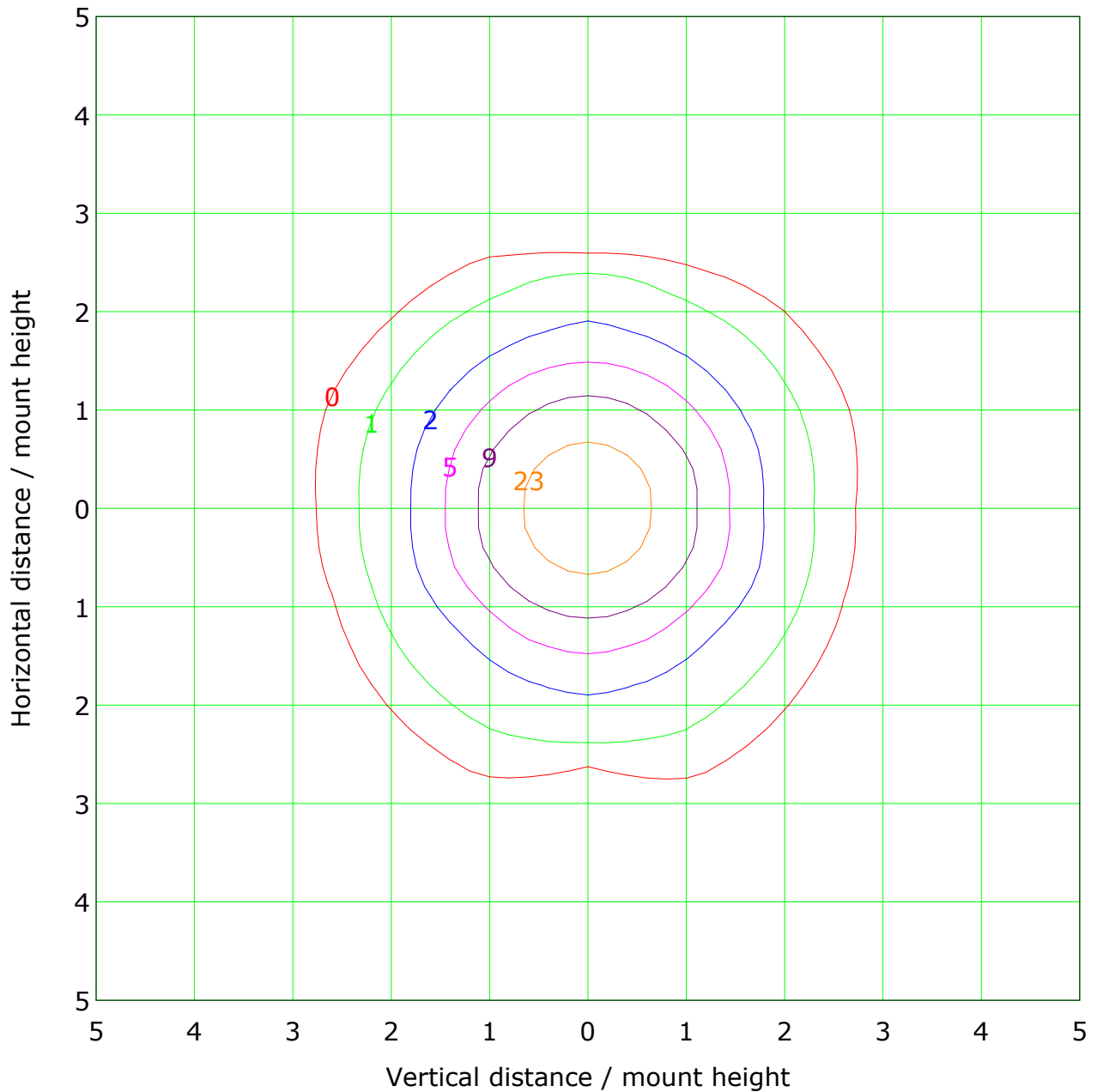
Spacing Criteria (0-180): 1.29
 Spacing Criteria (90-270): 1.33
 Spacing Criteria (Diagonal): 1.44



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 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 45.3 lx

(1%): 0.5 lx	(2%): 0.9 lx
(5%): 2.3 lx	(10%): 4.5 lx
(20%): 9.1 lx	(50%): 22.6 lx
(100%): 45.3 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

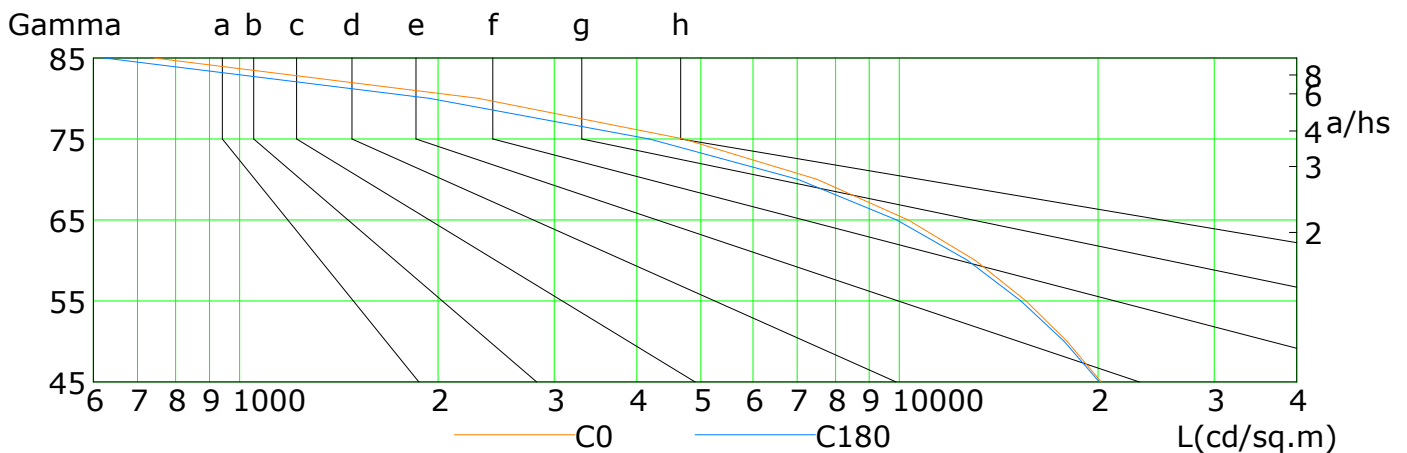
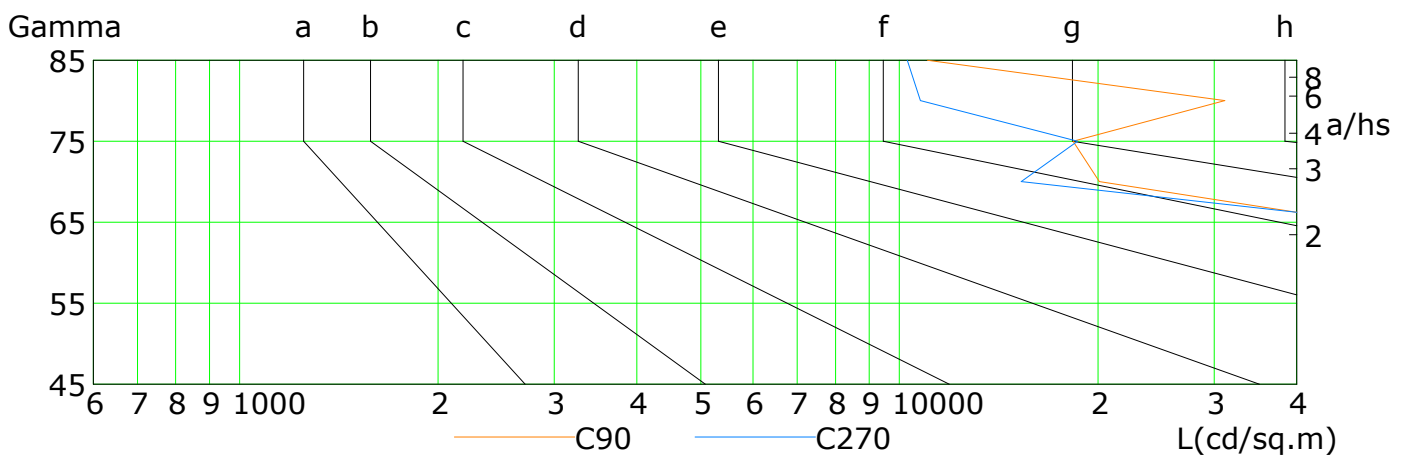
Humidity:

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	20230	17953	15558	13023	10314	7499	4707	2302	742
C90	46415	44550	45412	43793	50186	20098	18329	31123	11026
C180	20102	17761	15285	12685	9903	7014	4180	1939	624
C270	48142	47972	46336	41242	55237	15290	18613	10759	10274

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Temperature:

Operator:

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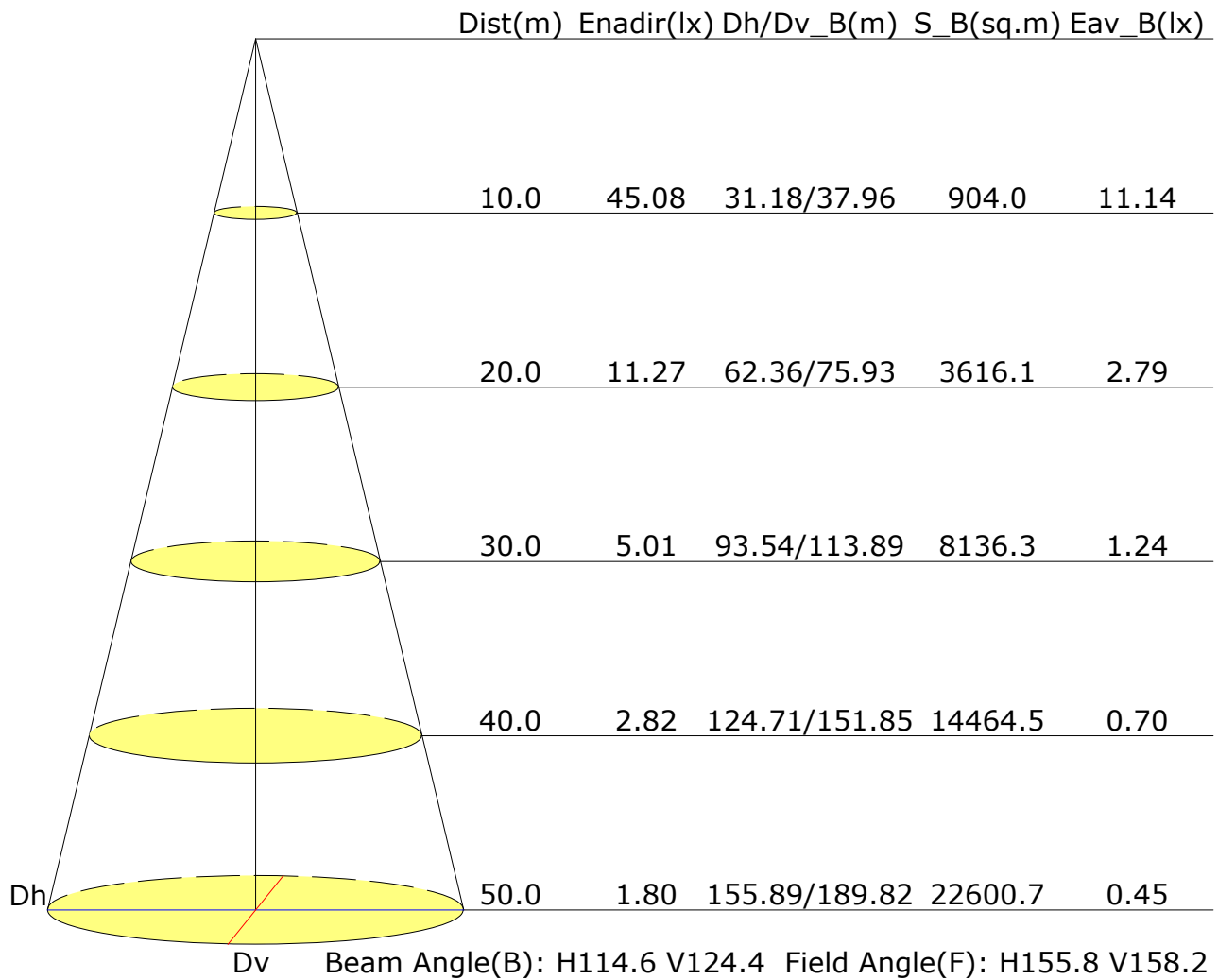
Test Device: LSG-1800B

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

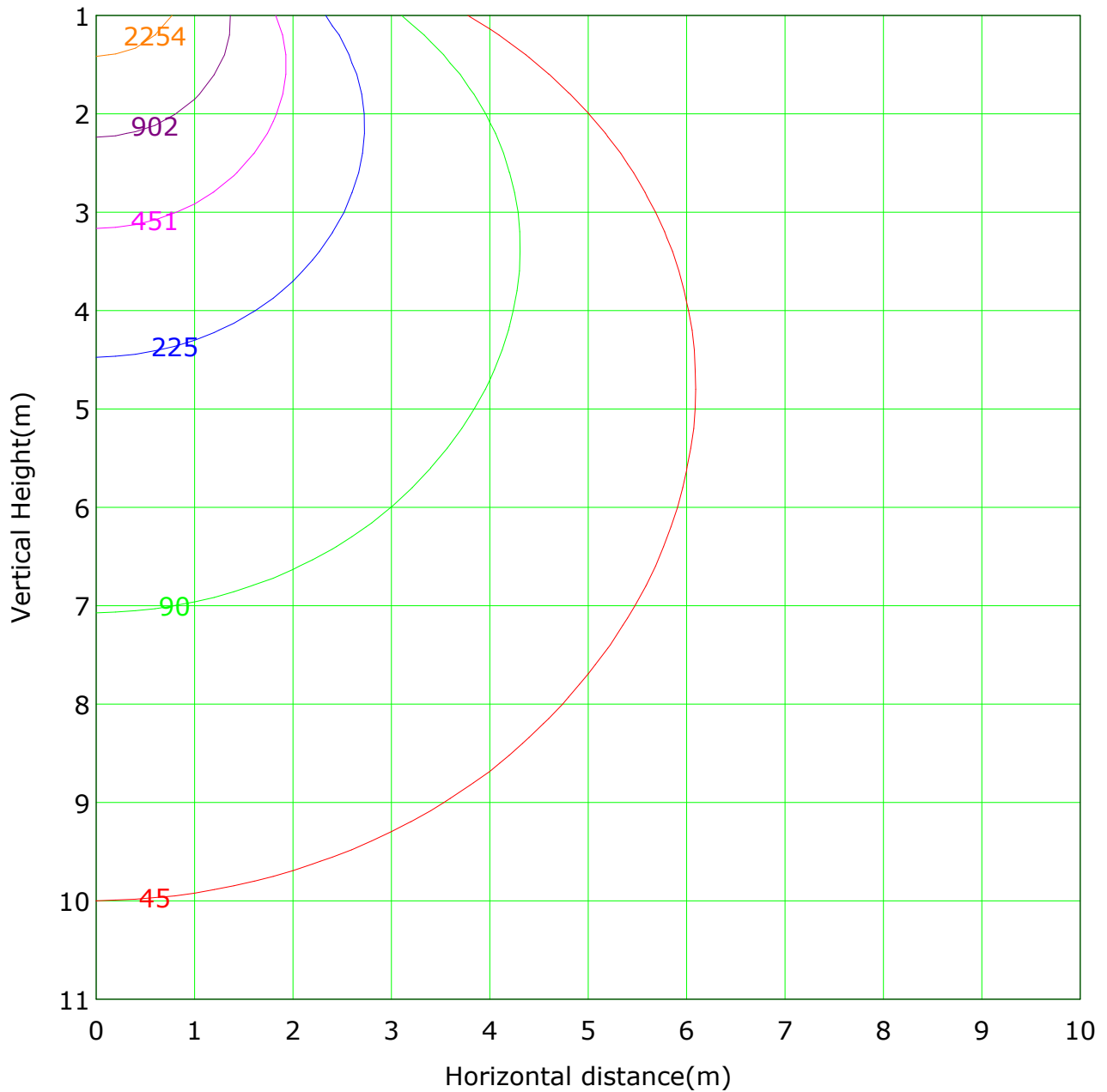
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4508.1 lx

(1%): 45.1 lx	(2%): 90.2 lx
(5%): 225.4 lx	(10%): 450.8 lx
(20%): 901.6 lx	(50%): 2254.0 lx
(100%): 4508.1 lx	

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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	6777	49.5
FL (0°-30°)	1828	13.4
FM (30°-60°)	3609	26.4
FH (60°-80°)	1240	9.1
FVH (80°-90°)	100	0.7
BACK LIGHT	6766	49.5
BL (0°-30°)	1830	13.4
BM (30°-60°)	3652	26.7
BH (60°-80°)	1202	8.8
BVH (80°-90°)	82	0.6
UP LIGHT	137	1.0
UL (90°-100°)	62	0.4
UH (100°-180°)	75	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 G3
Quadrilateral Symmetrical Luminaire Types (Type V, Area Light)	B3 U2 G1

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