

Report No.: 1

Test Time: 13.02.2019 11:31

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 595 40LED 0,39A 48W 4000K

Lamp Description: LED

Luminous Width (mm): 595

Voltage: 221.1 V

Power: 48.16 W

Luminous Length (mm): 595

Luminous Height (mm): 80

Current: 0.222 A

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Measurement Flux: 5844.8 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.8, 164.8, 164.9, 164.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.9, 112.7, 112.8, 112.8

Luminaire Efficacy Rating (LER): 121.41

Max. Intensity: 2007.47 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 5844.8 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 2007.47 cd

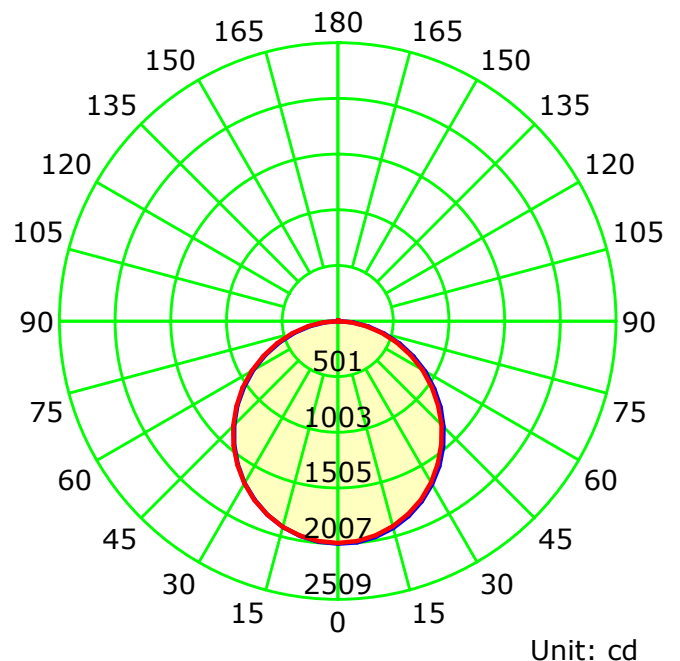
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.25

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

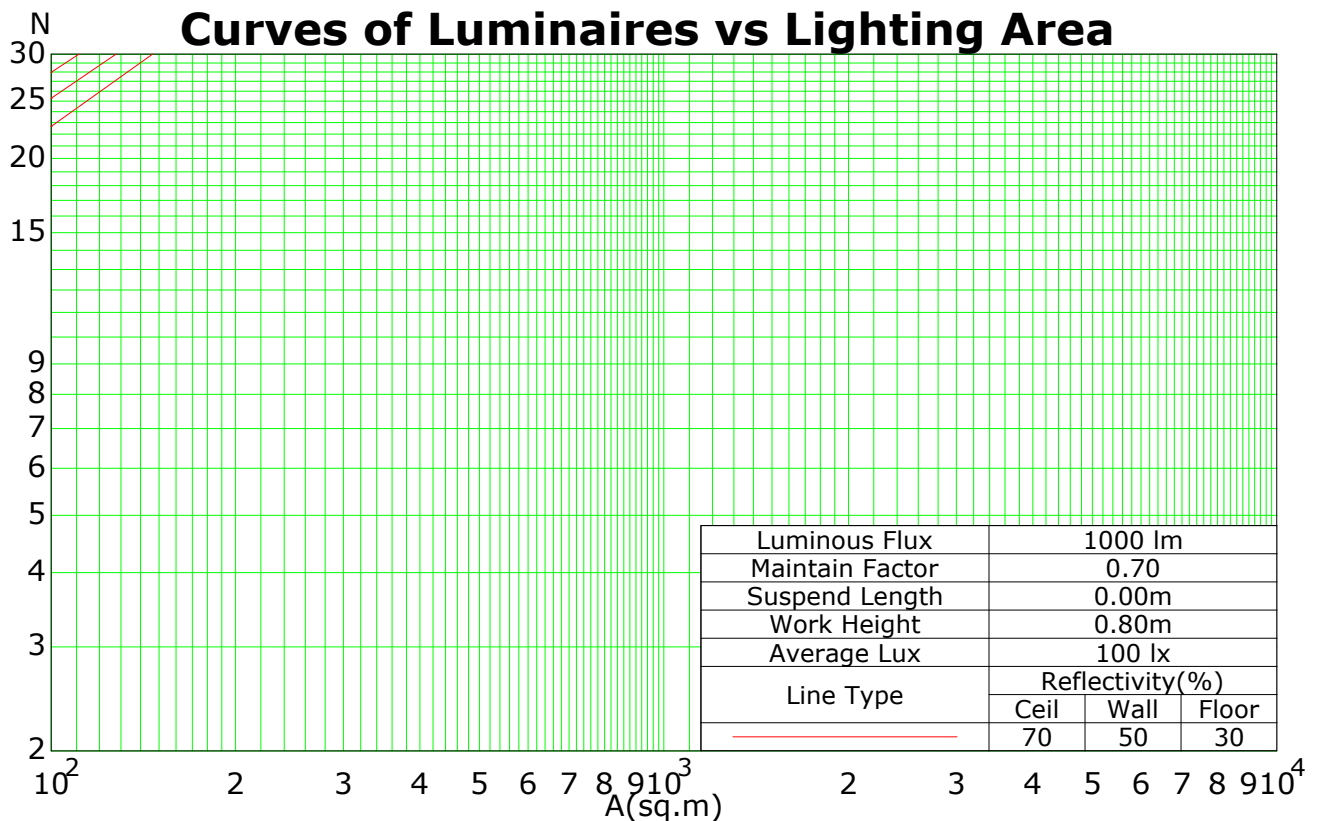
Humidity:

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	99
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	82
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	23

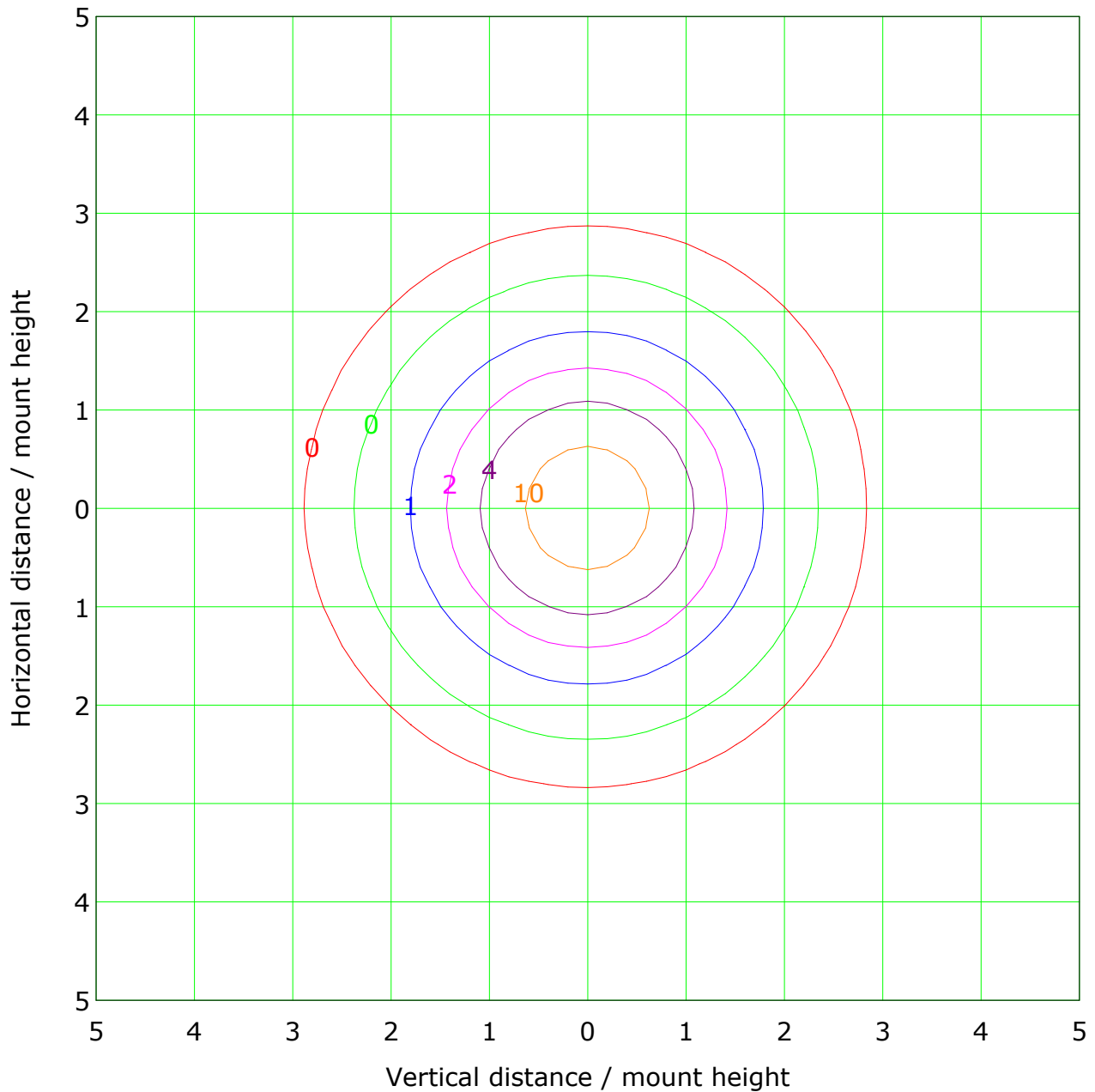
Spacing Criteria (0-180): 1.25
 Spacing Criteria (90-270): 1.25
 Spacing Criteria (Diagonal): 1.37



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:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 20.1 lx

(1%): 0.2 lx	(2%): 0.4 lx
(5%): 1.0 lx	(10%): 2.0 lx
(20%): 4.0 lx	(50%): 10.0 lx
(100%): 20.1 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

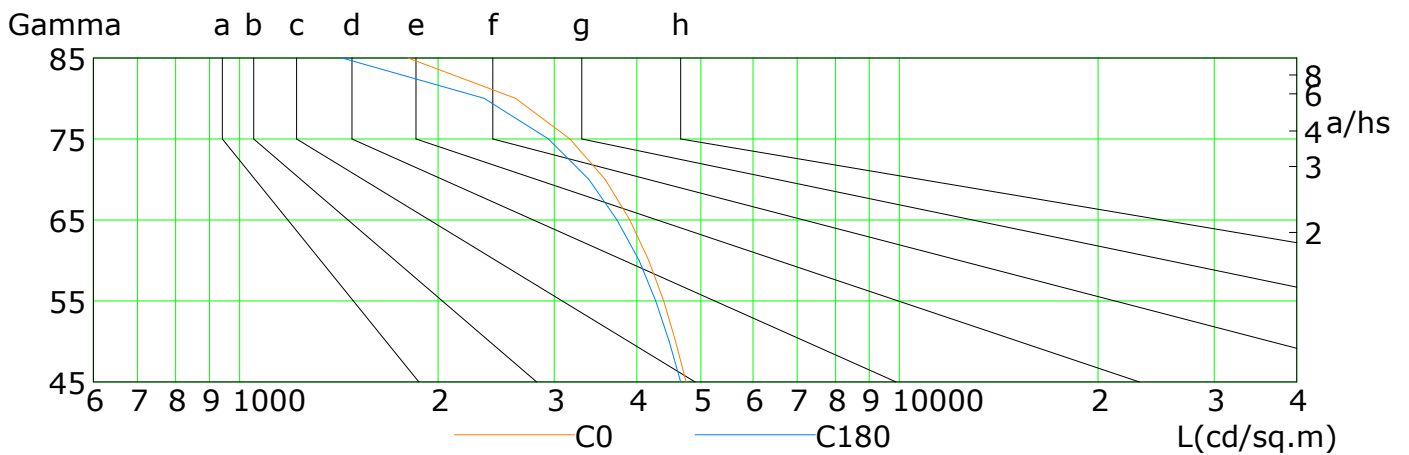
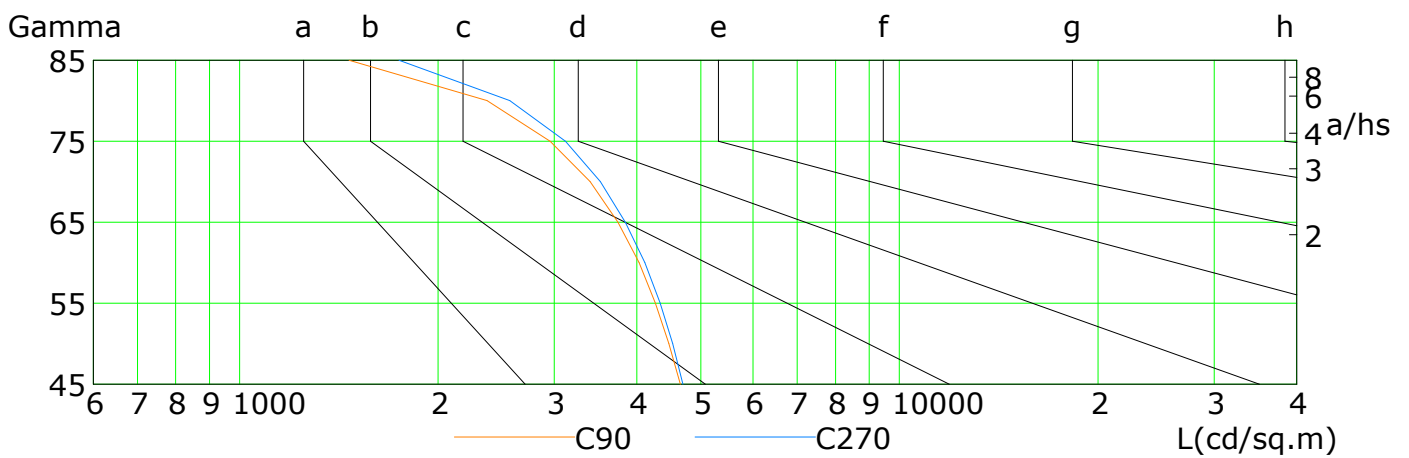
Humidity:

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	4752	4580	4392	4168	3903	3580	3168	2619	1799
C90	4656	4472	4270	4031	3745	3398	2954	2373	1466
C180	4659	4479	4271	4031	3732	3382	2940	2348	1430
C270	4699	4531	4338	4115	3840	3522	3120	2567	1745

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

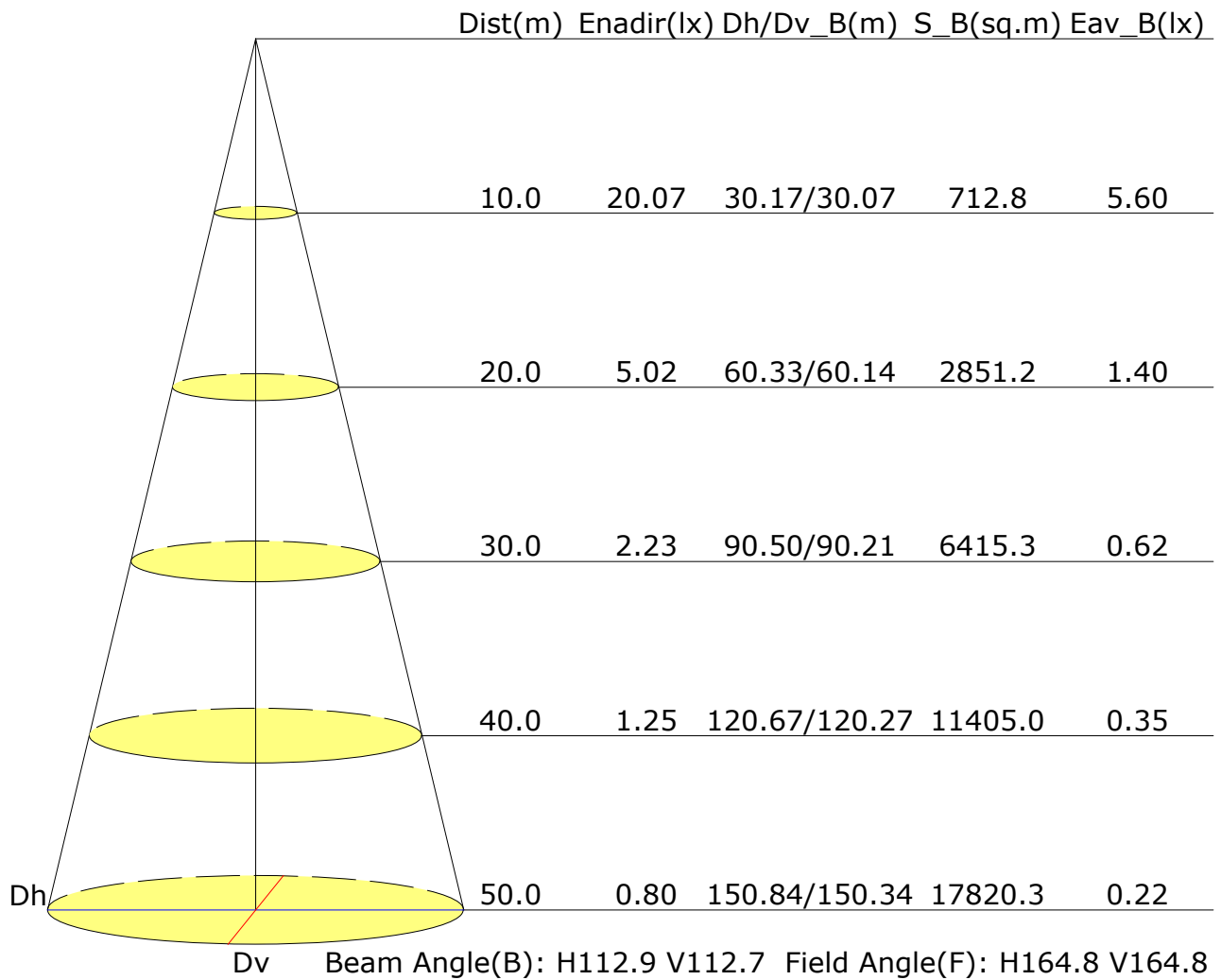
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

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

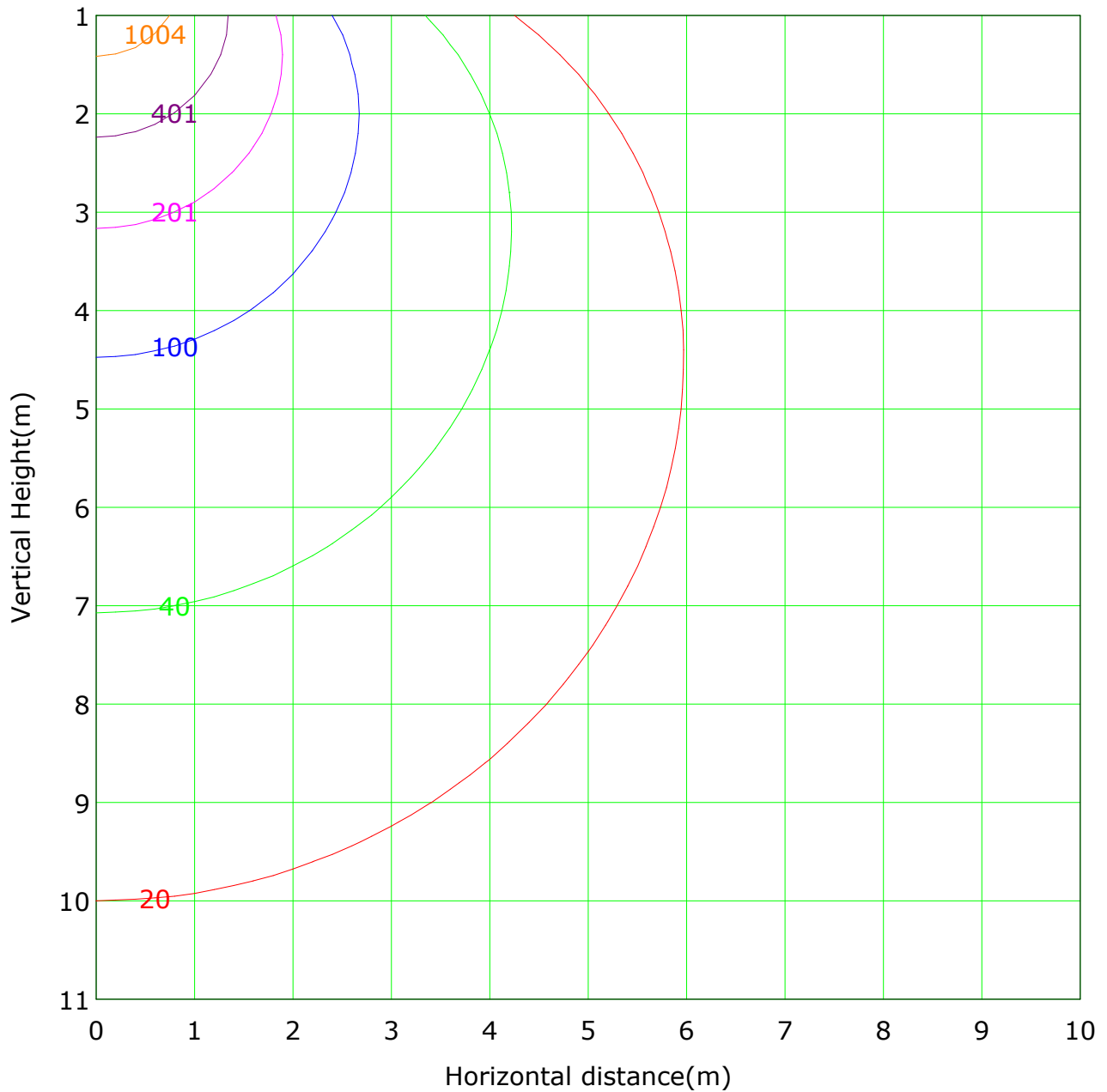
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2007.5 lx

(1%): 20.1 lx	(2%): 40.1 lx
(5%): 100.4 lx	(10%): 200.7 lx
(20%): 401.5 lx	(50%): 1003.7 lx
(100%): 2007.5 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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2892	49.5
FL (0°-30°)	775	13.3
FM (30°-60°)	1470	25.1
FH (60°-80°)	578	9.9
FVH (80°-90°)	69	1.2
BACK LIGHT	2923	50.0
BL (0°-30°)	777	13.3
BM (30°-60°)	1480	25.3
BH (60°-80°)	591	10.1
BVH (80°-90°)	75	1.3
UP LIGHT	30	0.5
UL (90°-100°)	5	0.1
UH (100°-180°)	25	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 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U2 G1

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: