

Report No.: 1

Test Time: 22.10.2018 10:38

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 100 36LED 200W 5000K 30 Degrees

Lamp Description: LED

Luminous Width (mm): 300

Voltage: 221.0 V

Power: 202.80 W

Luminous Length (mm): 194

Luminous Height (mm): 246

Current: 0.924 A

Power Factor: 0.991

Photometric Results

CIE Class: Direct

Measurement Flux: 29273.1 lm

Downward Ratio: 93%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 59.8, 62.0, 62.1, 62.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 28.4, 29.9, 29.1, 29.2

Luminaire Efficacy Rating (LER): 144.39

Max. Intensity: 60939 cd

S/MH(C0/C180): 0.47

Total Rated Lamp Lumens: 29273.1 lm

Efficiency: 100%

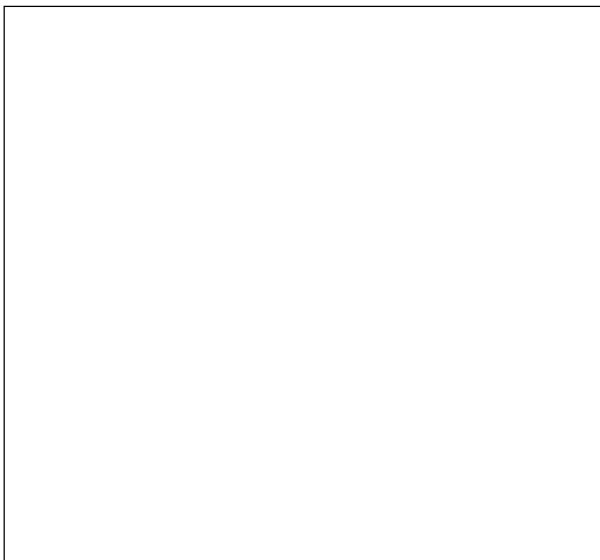
Upward Ratio: 7%

Central Intensity: 60790.16 cd

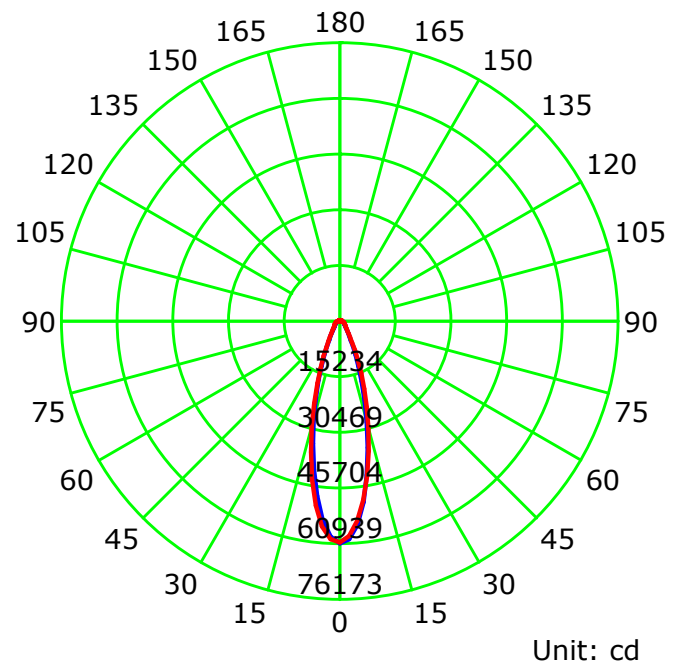
Pos of Max. Intensity: H45 V0

S/MH(C90/C270): 0.49

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.5

Test Device: LSG-1800B

Distance: 12.654 m

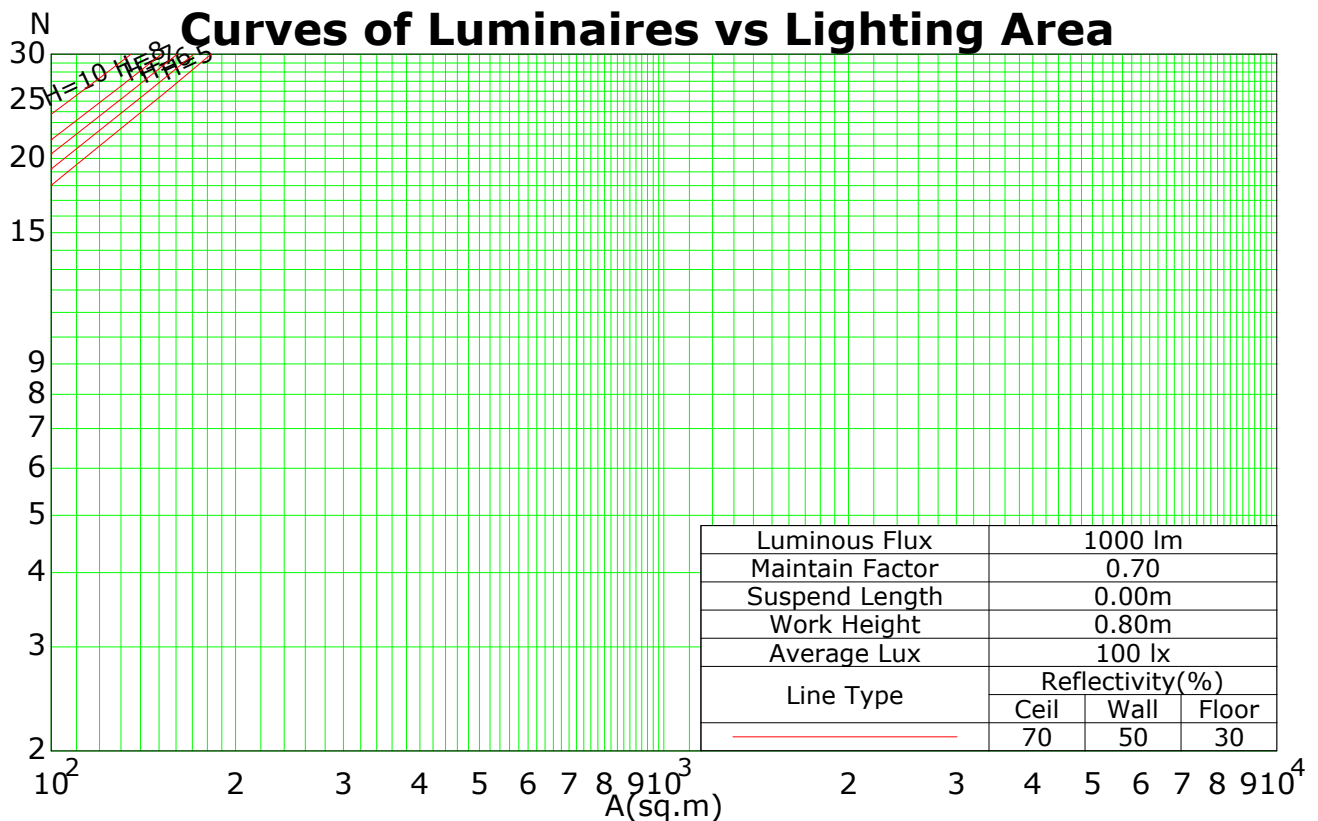
Humidity:

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	110	106	103	100	107	103	100	98	98	96	93	93	91	89	88	87	86	83
2	103	97	92	88	100	95	90	86	90	87	84	86	83	81	82	80	78	76
3	97	90	84	79	95	88	82	78	84	80	76	81	77	74	77	74	72	70
4	92	83	77	72	90	82	76	71	79	74	70	76	72	68	73	70	67	65
5	87	78	72	67	85	77	71	66	74	69	65	72	67	64	69	65	62	61
6	83	73	67	62	81	72	66	62	70	65	61	68	63	60	66	62	59	57
7	79	69	63	58	77	68	62	58	66	61	57	65	60	56	63	59	56	54
8	76	66	59	55	74	65	59	55	63	58	54	62	57	54	60	56	53	51
9	72	62	56	52	71	62	56	52	60	55	52	59	54	51	58	53	50	49
10	69	60	54	50	68	59	53	50	58	53	49	56	52	49	55	51	48	47

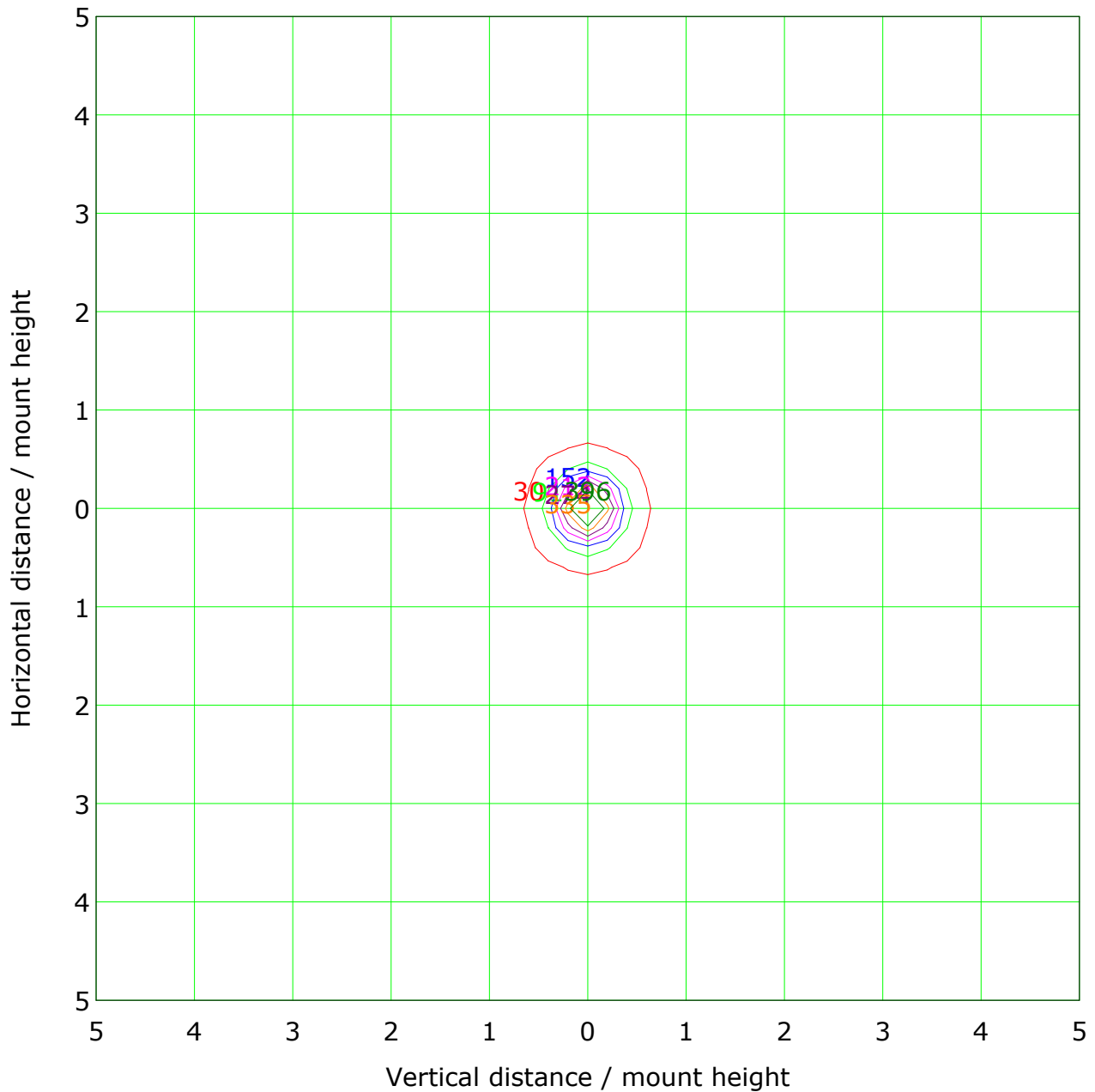
Spacing Criteria (0-180): 0.47
 Spacing Criteria (90-270): 0.49
 Spacing Criteria (Diagonal): 0.52



C Plane (°):0.0-360.0: 15.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:2.5
 Test Device: LSG-1800B
 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 609.4 lx

(5%): 30.5 lx	(15%): 91.4 lx
(25%): 152.3 lx	(35%): 213.3 lx
(45%): 274.2 lx	(55%): 335.2 lx
(65%): 396.1 lx	

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.5

Test Device: LSG-1800B

Distance: 12.654 m

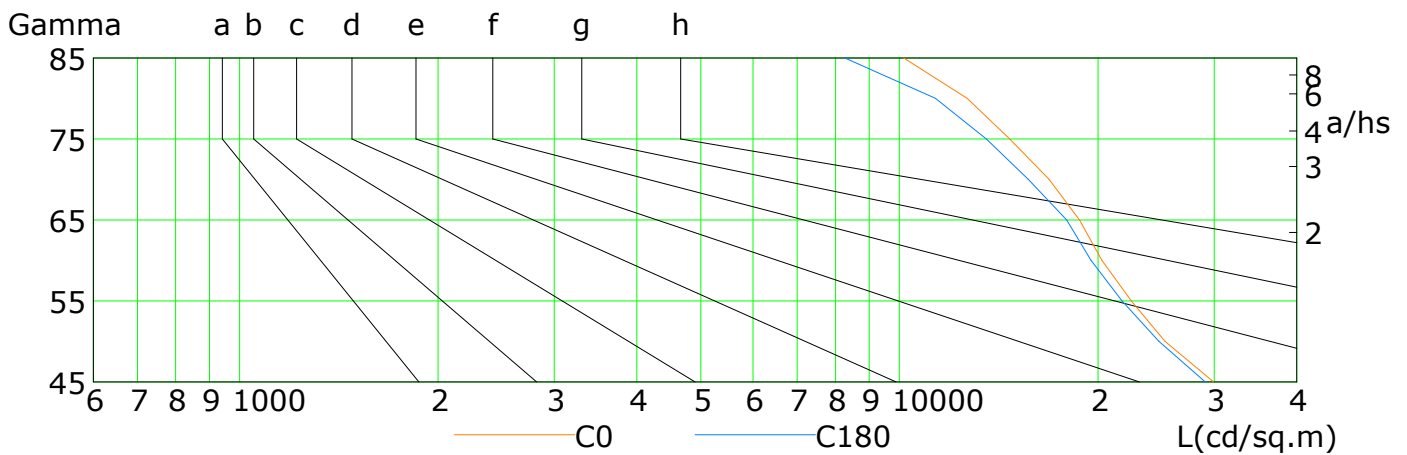
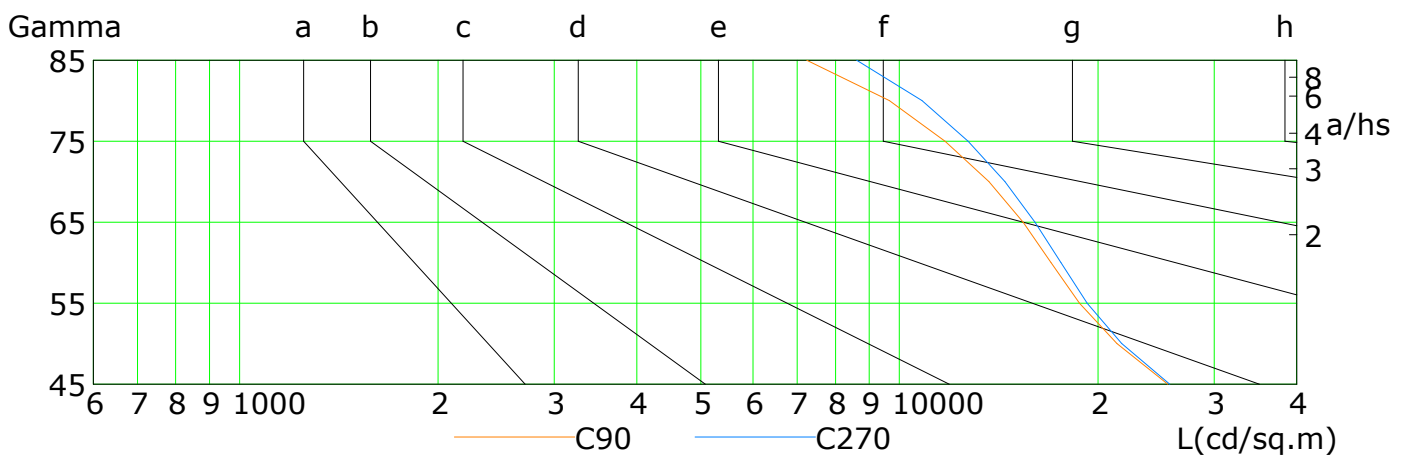
Humidity:

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	29923	25250	22468	20262	18753	16856	14696	12674	10150
C90	25513	21372	18753	16974	15408	13667	11727	9659	7241
C180	29066	24737	21743	19516	17936	15684	13551	11345	8264
C270	25700	21713	19251	17570	16046	14452	12707	10822	8615

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.5

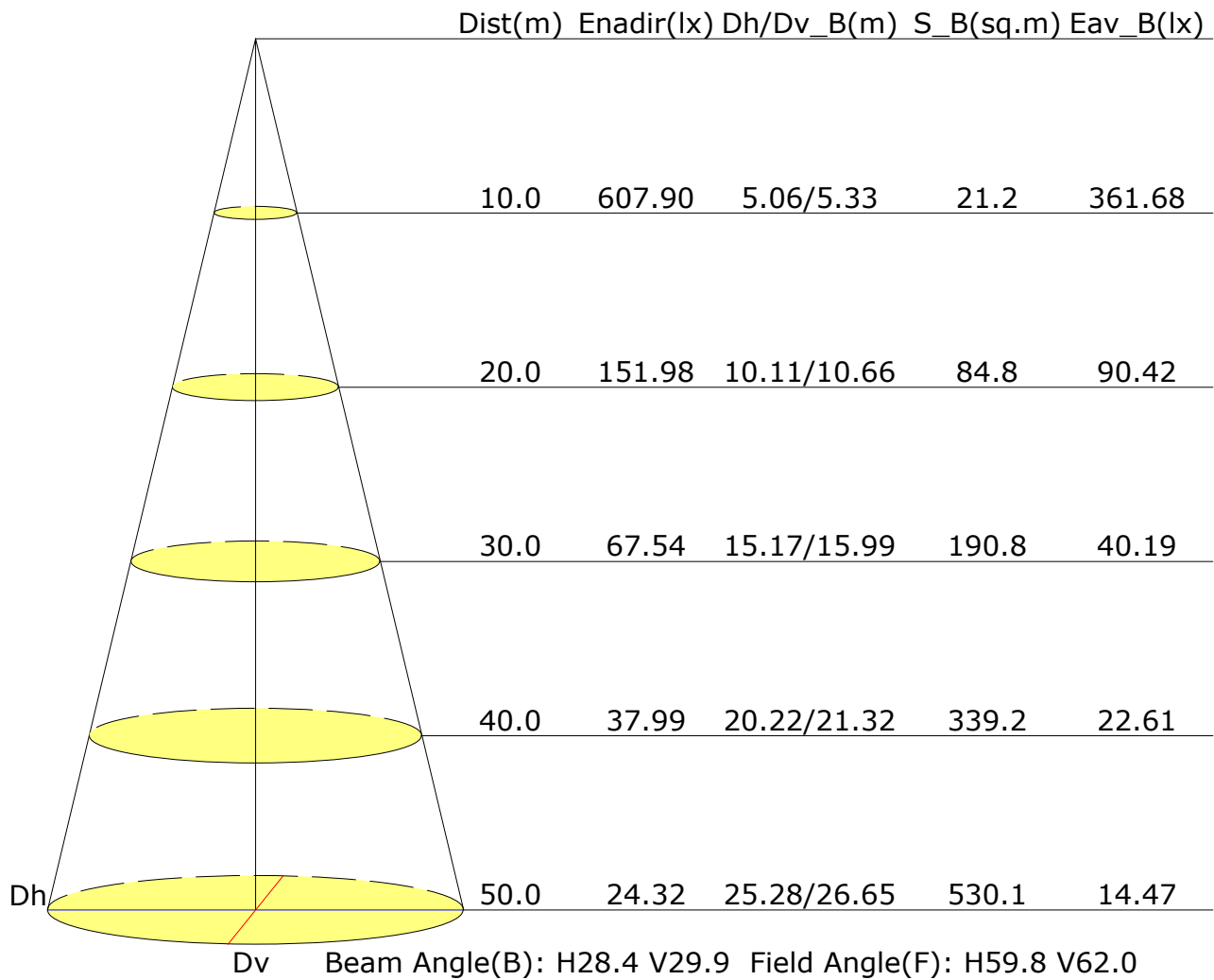
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.5

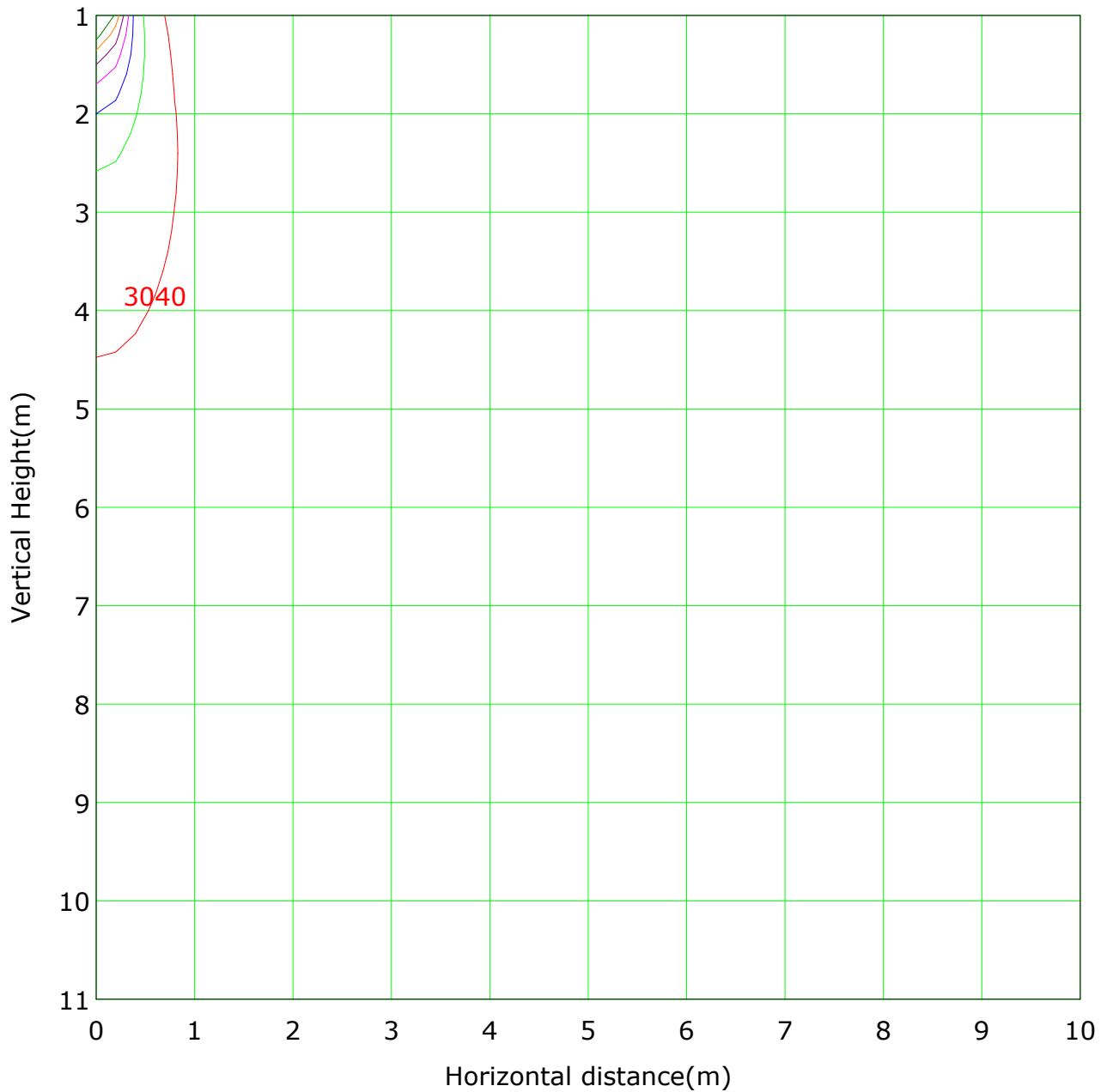
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 60790.2 lx

(5%):3039.5 lx	(15%):9118.5 lx
(25%):15197.5 lx	(35%):21276.6 lx
(45%):27355.6 lx	(55%):33434.6 lx
(65%):39513.6 lx	

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

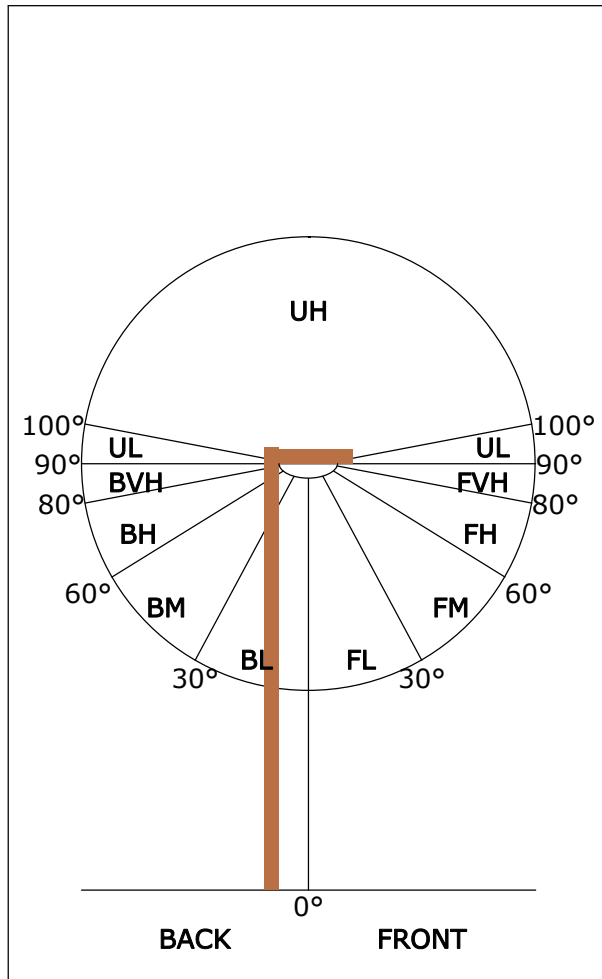
Gamma Plane (°):0.0-180.0:2.5

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	13673	46.7
FL (0°-30°)	9127	31.2
FM (30°-60°)	3066	10.5
FH (60°-80°)	1171	4.0
FVH (80°-90°)	309	1.1
BACK LIGHT	13534	46.2
BL (0°-30°)	8968	30.6
BM (30°-60°)	3030	10.4
BH (60°-80°)	1202	4.1
BVH (80°-90°)	333	1.1
UP LIGHT	2066	7.1
UL (90°-100°)	413	1.4
UH (100°-180°)	1652	5.6
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B5 U5 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B5 U5 G2

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.5

Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector: