

Report No.: 1

Test Time: 06.02.2019 14:57

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 100 36LED 200W 5000K 40 Degrees

Lamp Description: LED

Luminous Width (mm): 337

Voltage: 222.1 V

Power: 205.04 W

Luminous Length (mm): 220

Luminous Height (mm): 253

Current: 0.939 A

Power Factor: 0.982

Photometric Results

CIE Class: Direct

Measurement Flux: 32012.6 lm

Downward Ratio: 92%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 59.5, 60.6, 61.0, 60.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 31.4, 32.0, 31.5, 31.4

Luminaire Efficacy Rating (LER): 156.18

Max. Intensity: 65602.37 cd

S/MH(C0/C180): 0.52

Total Rated Lamp Lumens: 32012.6 lm

Efficiency: 100%

Upward Ratio: 8%

Central Intensity: 65602.37 cd

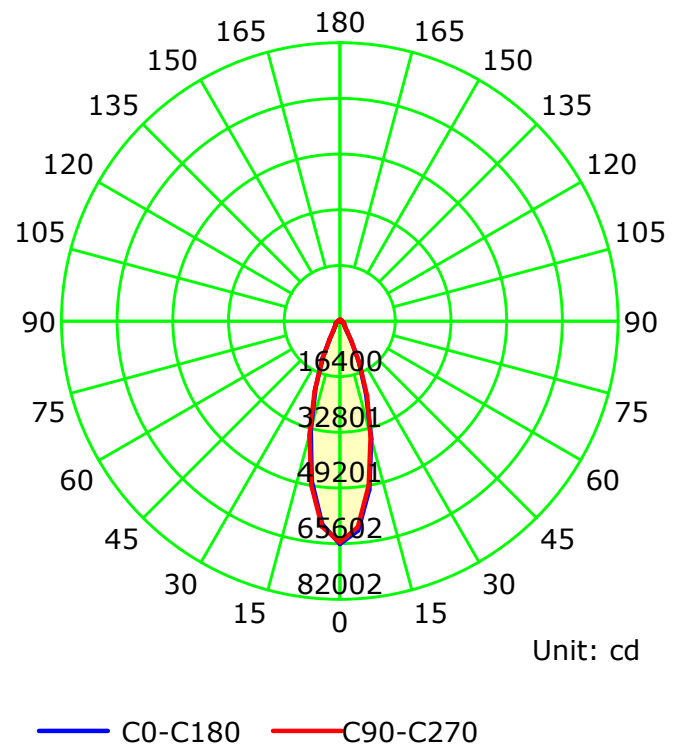
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.52

Picture Of Luminaire



Luminous Intensity Distribution Curve



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

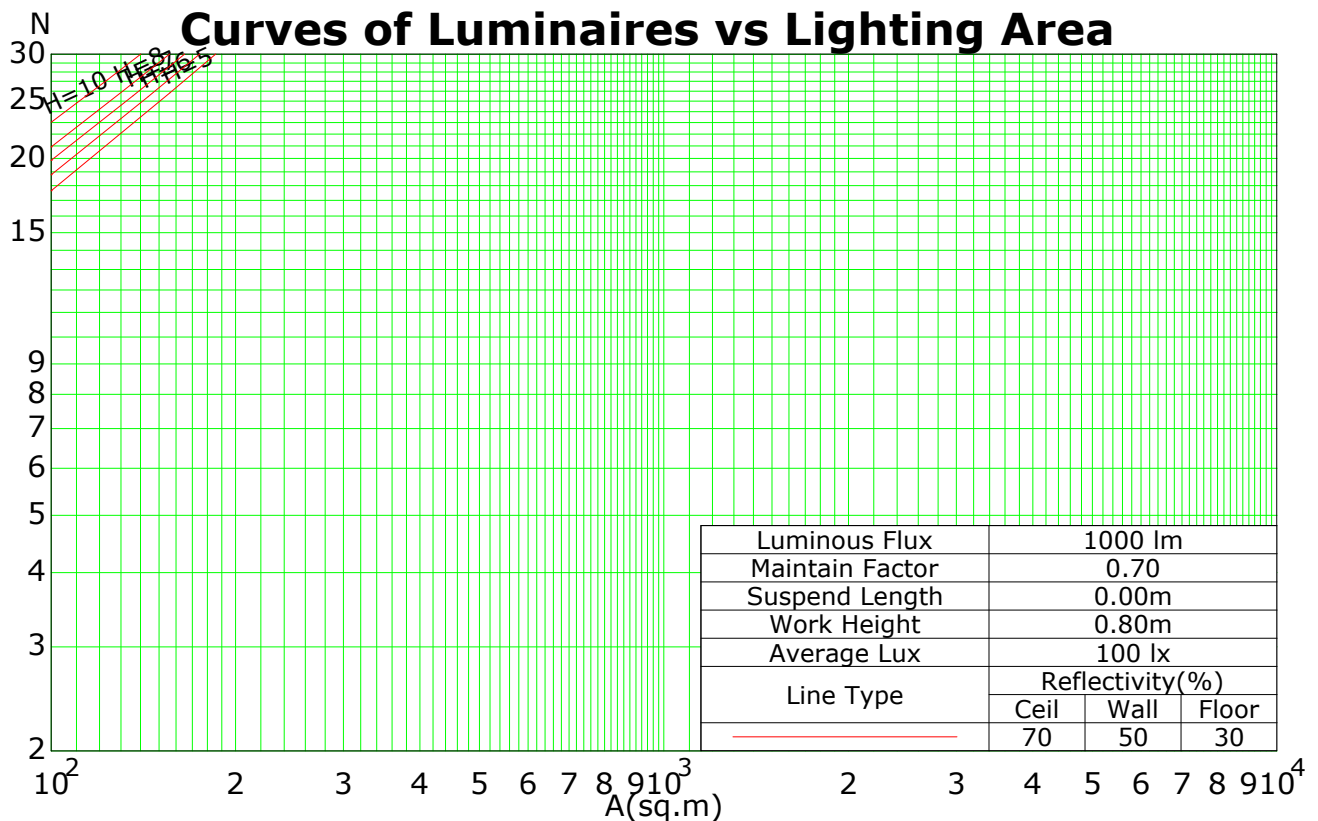
Humidity:

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	110	107	103	101	107	104	101	98	98	96	94	93	91	90	88	87	86	83
2	104	98	93	89	101	96	91	88	91	88	85	87	84	82	83	81	79	77
3	98	91	85	81	95	89	84	80	85	81	77	82	78	75	78	75	73	71
4	93	85	79	74	91	83	78	73	80	75	72	77	73	70	74	71	68	66
5	88	80	73	69	86	78	72	68	75	71	67	73	69	66	71	67	64	63
6	84	75	69	64	82	74	68	64	72	67	63	69	65	62	67	64	61	59
7	81	71	65	61	79	70	64	60	68	63	59	66	62	59	64	61	58	56
8	77	68	62	57	75	67	61	57	65	60	56	63	59	56	62	58	55	53
9	74	64	58	55	72	64	58	54	62	57	54	61	56	53	59	55	53	51
10	71	61	56	52	70	61	55	52	59	55	51	58	54	51	57	53	50	49

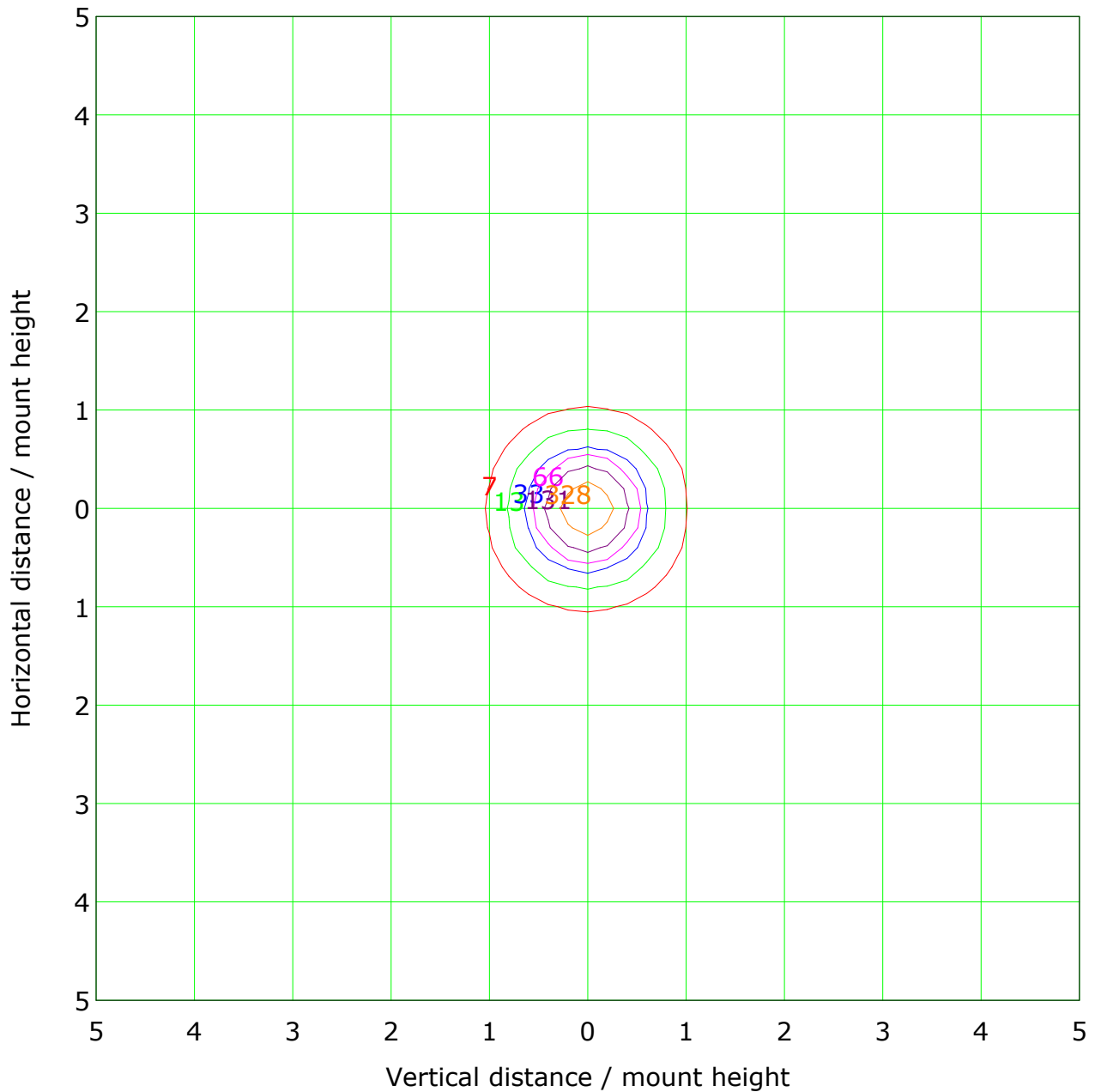
Spacing Criteria (0-180): 0.52
 Spacing Criteria (90-270): 0.52
 Spacing Criteria (Diagonal): 0.54



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

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 656.0 lx

(1%): 6.6 lx	(2%): 13.1 lx
(5%): 32.8 lx	(10%): 65.6 lx
(20%): 131.2 lx	(50%): 328.0 lx
(100%): 656.0 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

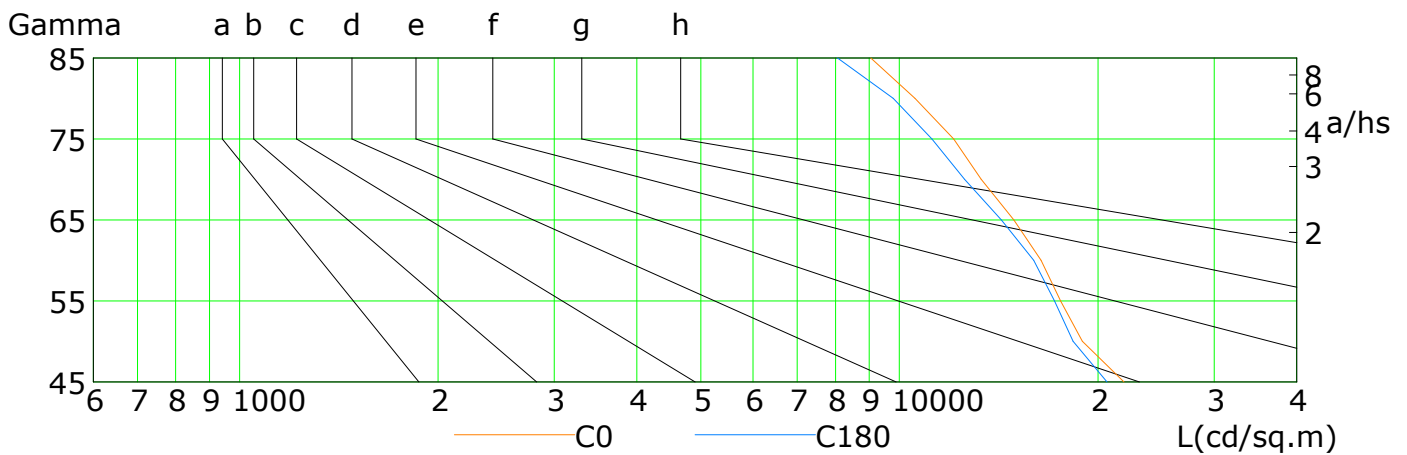
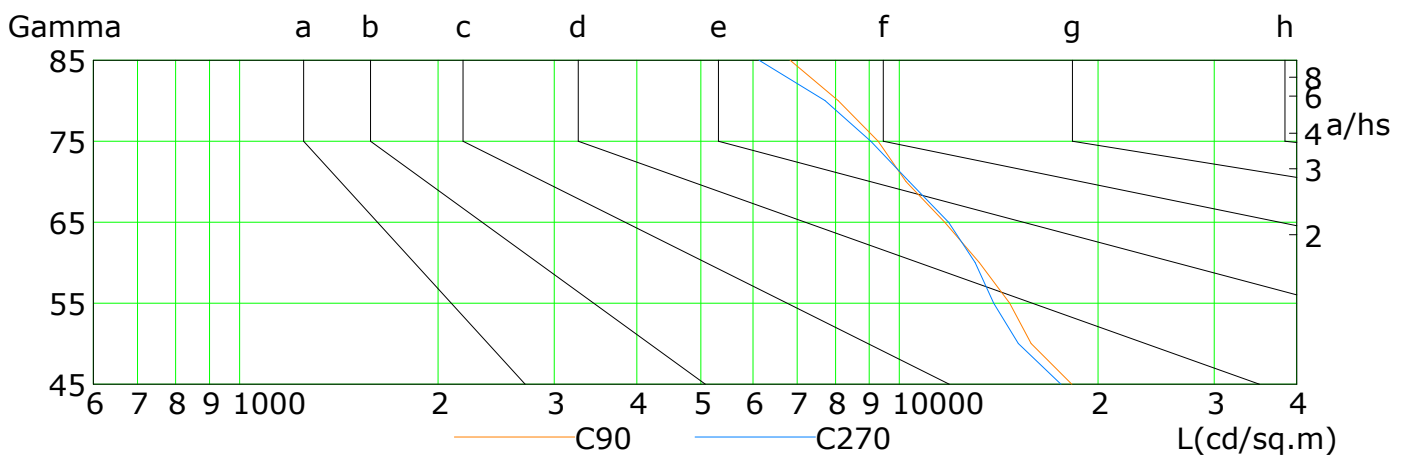
Humidity:

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	21907	18939	17552	16393	14916	13302	12081	10563	9050
C90	18253	15835	14699	13209	11715	10237	9283	8076	6833
C180	20635	18325	17188	15982	14274	12551	11201	9787	8060
C270	17580	15138	13894	13025	11877	10348	9053	7714	6130

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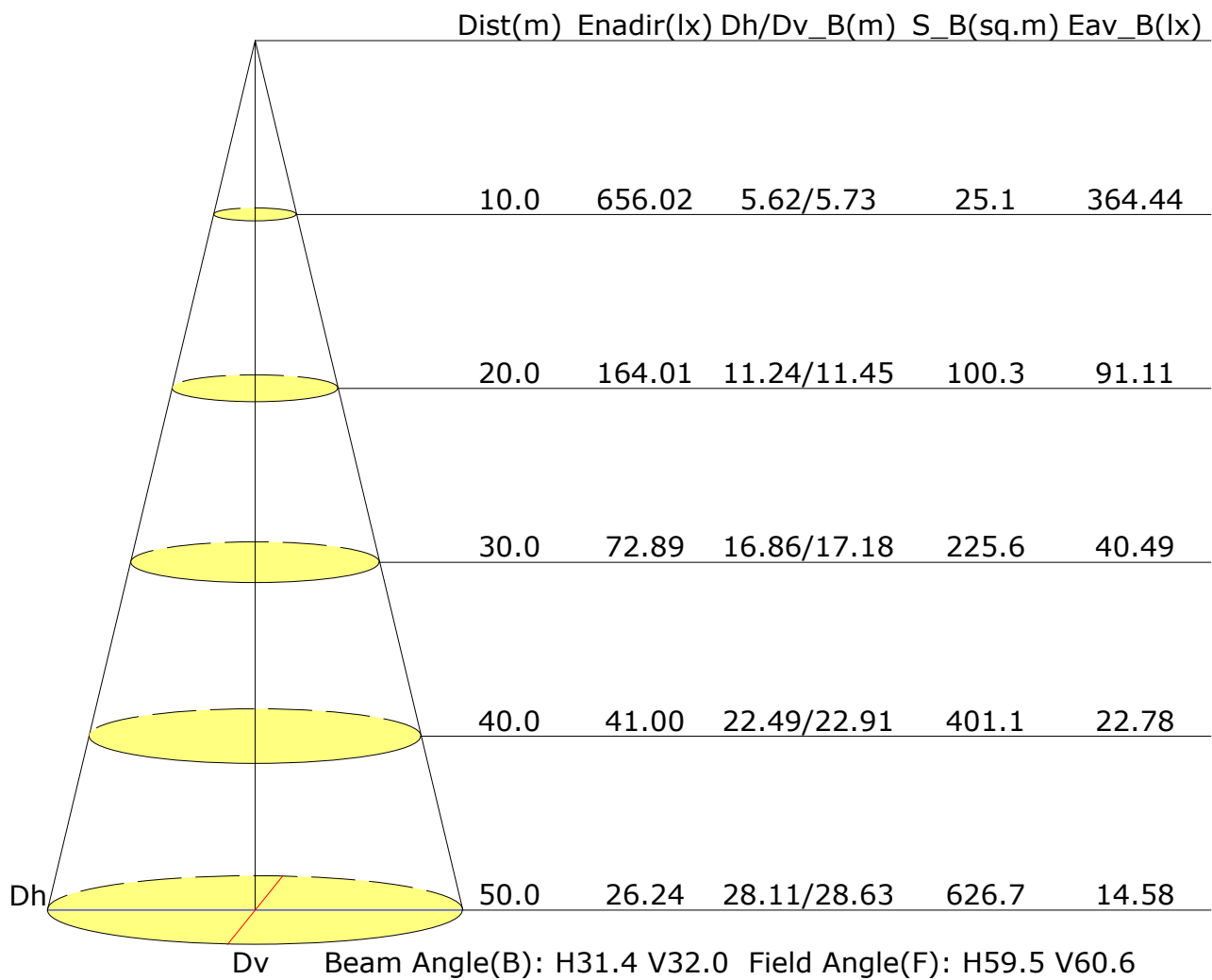
Test Device: LSG-1800B

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

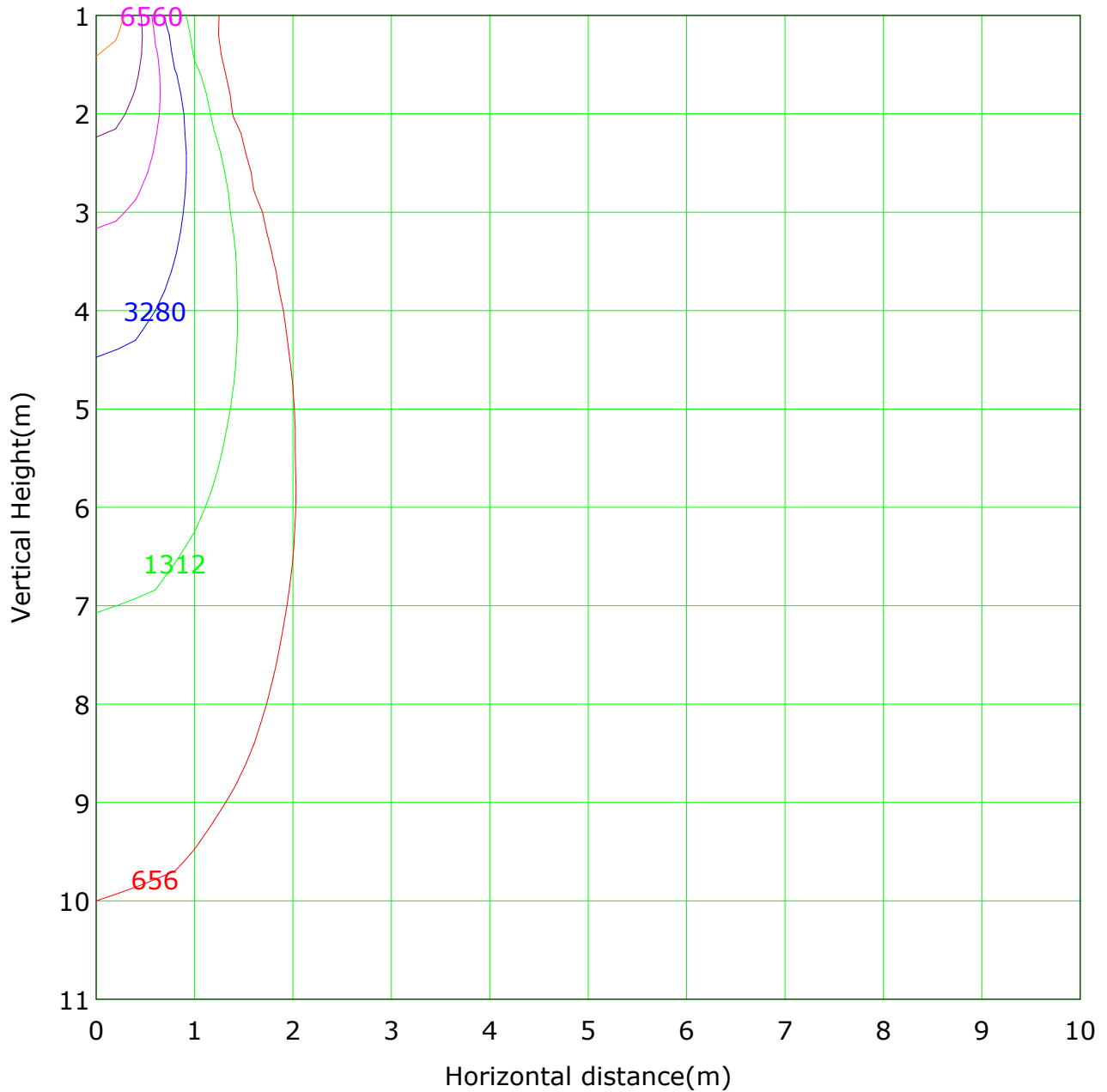
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 65602.4 lx
— (1%): 656.0 lx — (2%):1312.0 lx
— (5%):3280.1 lx — (10%):6560.2 lx
— (20%):13120.5 lx — (50%):32801.2 lx
— (100%):65602.4 lx

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

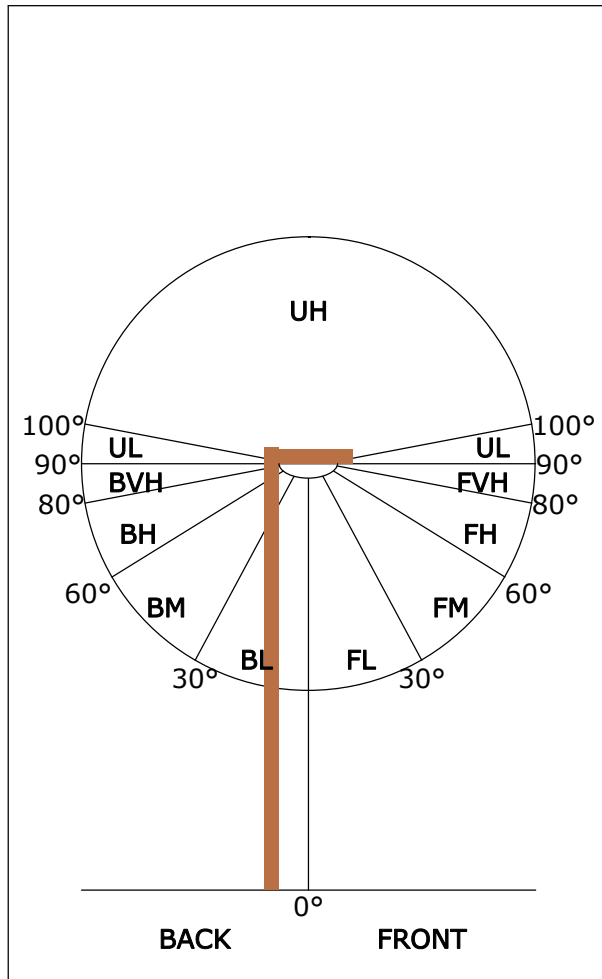
Gamma Plane (°):0.0-180.0:5.0

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	15012	46.9
FL (0°-30°)	10752	33.6
FM (30°-60°)	2847	8.9
FH (60°-80°)	1088	3.4
FVH (80°-90°)	325	1.0
BACK LIGHT	14515	45.3
BL (0°-30°)	10401	32.5
BM (30°-60°)	2718	8.5
BH (60°-80°)	1086	3.4
BVH (80°-90°)	310	1.0
UP LIGHT	2485	7.8
UL (90°-100°)	461	1.4
UH (100°-180°)	2024	6.3
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

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