

Report No.: 1

Test Time: 16.10.2018 11:27

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 50 0,345A 42W Refond

Lamp Description: LED

Luminous Width (mm): 55

Voltage: 220.8 V

Power: 42.15 W

Luminous Length (mm): 900

Luminous Height (mm): 85

Current: 0.199 A

Power Factor: 0.956

Photometric Results

CIE Class: Direct

Measurement Flux: 5948.8 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.6, 152.7, 155.9, 156.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.3, 116.1, 112.2, 112.2

Luminaire Efficacy Rating (LER): 141.18

Max. Intensity: 2052.05 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 5948.8 lm

Efficiency: 100%

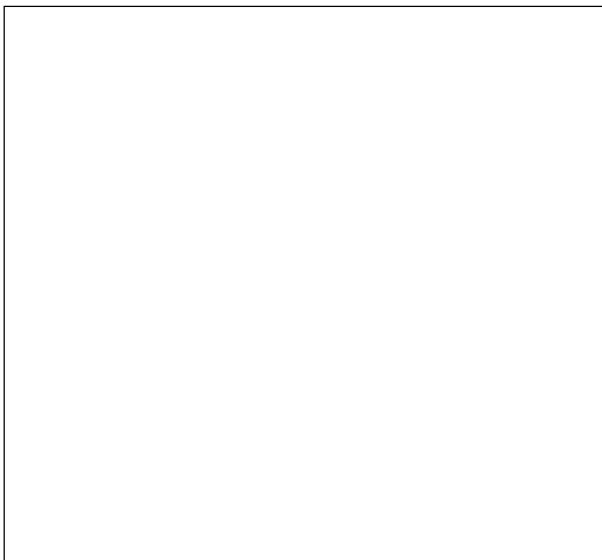
Upward Ratio: 1%

Central Intensity: 2046.66 cd

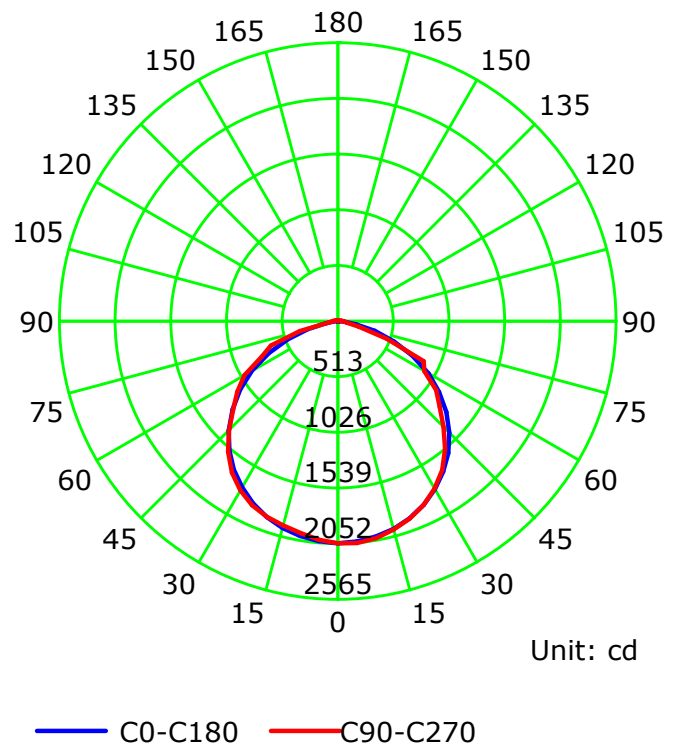
Pos of Max. Intensity: H90 V5

S/MH(C90/C270): 1.30

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

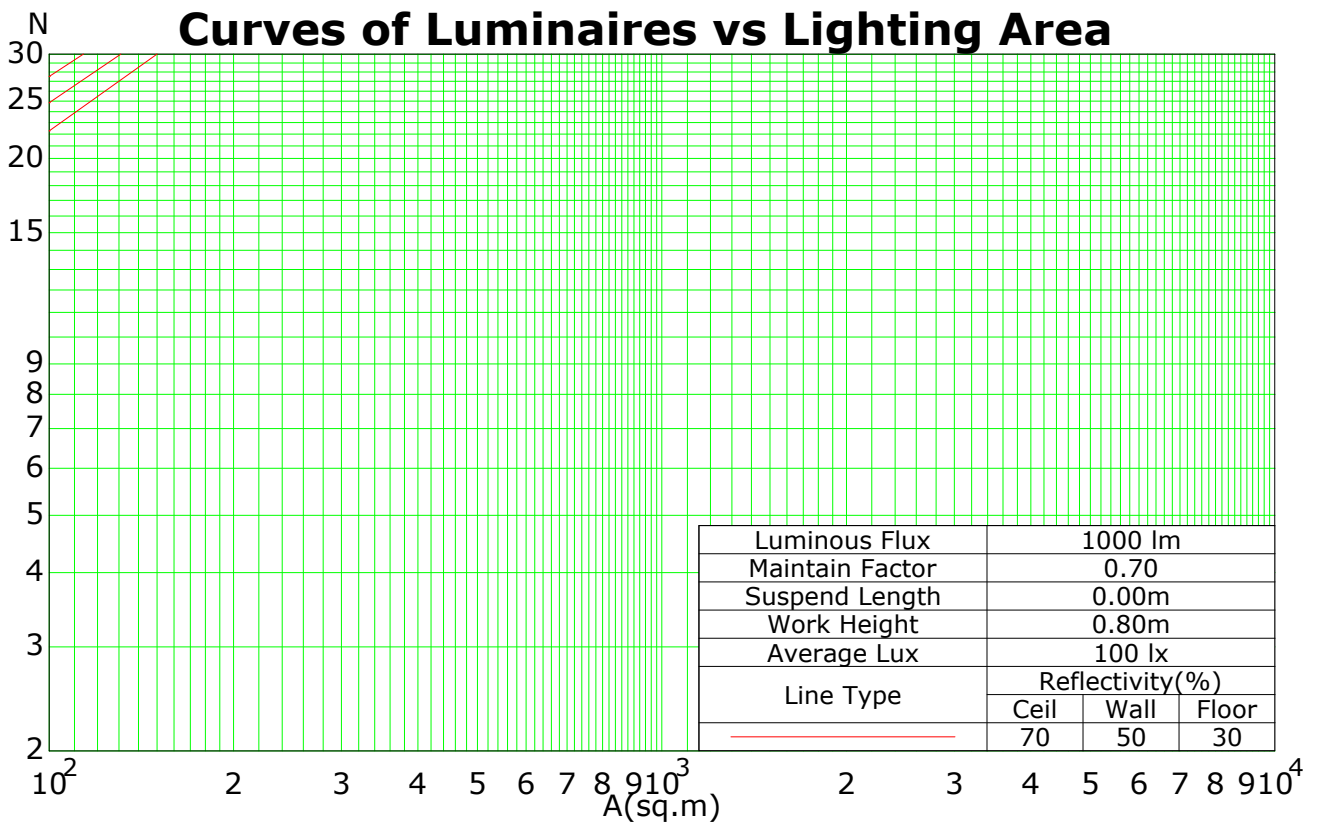
Humidity:

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	119	119	119	119	116	116	116	116	110	110	110	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	48	74	62	54	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	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	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

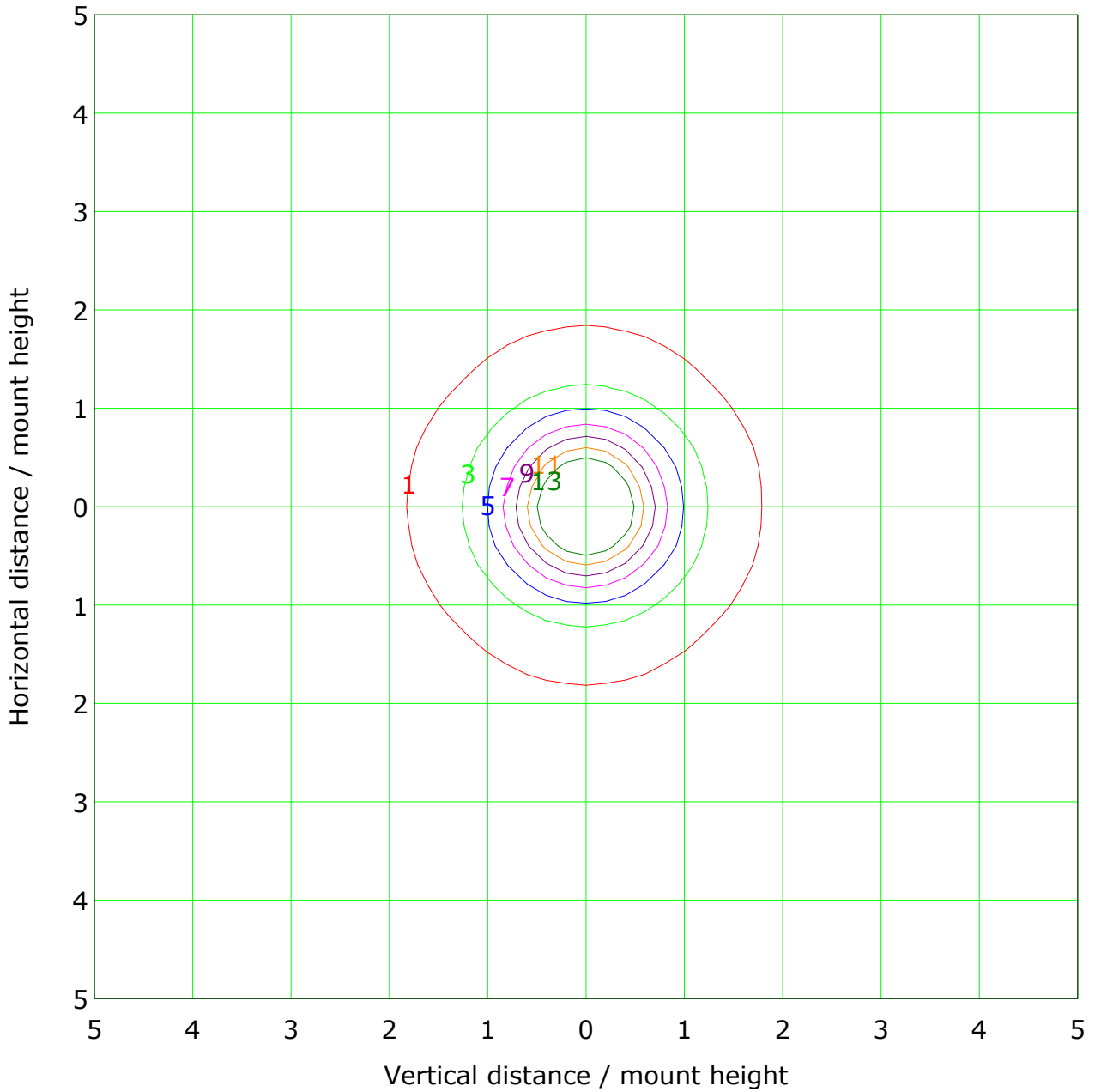
Spacing Criteria (0-180): 1.29
 Spacing Criteria (90-270): 1.30
 Spacing Criteria (Diagonal): 1.41



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

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 20.5 lx	
— (5%):	1.0 lx	— (15%):	3.1 lx
— (25%):	5.1 lx	— (35%):	7.2 lx
— (45%):	9.2 lx	— (55%):	11.3 lx
— (65%):	13.3 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

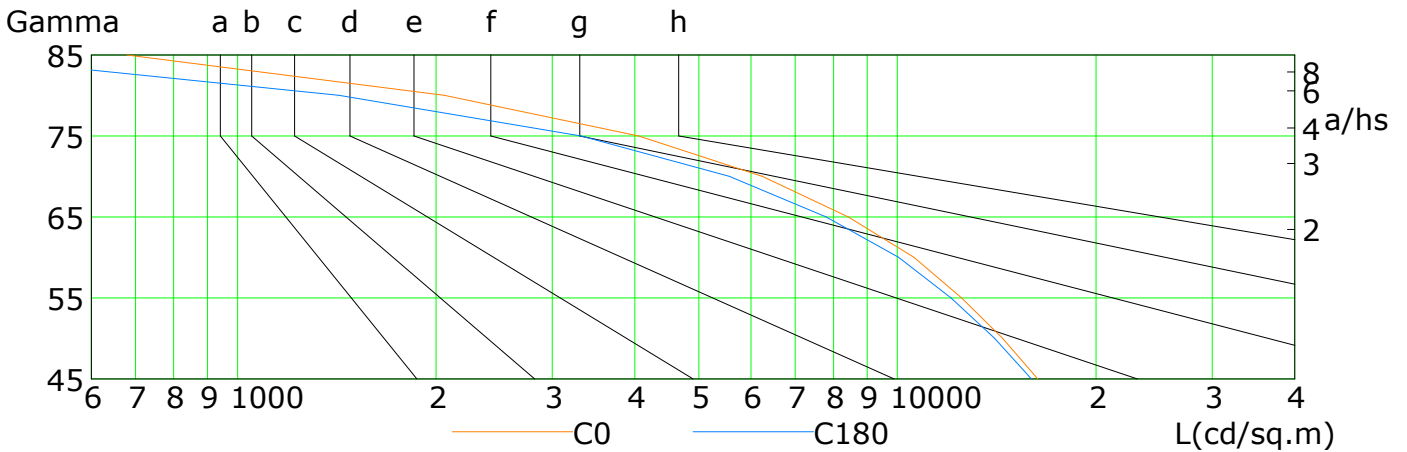
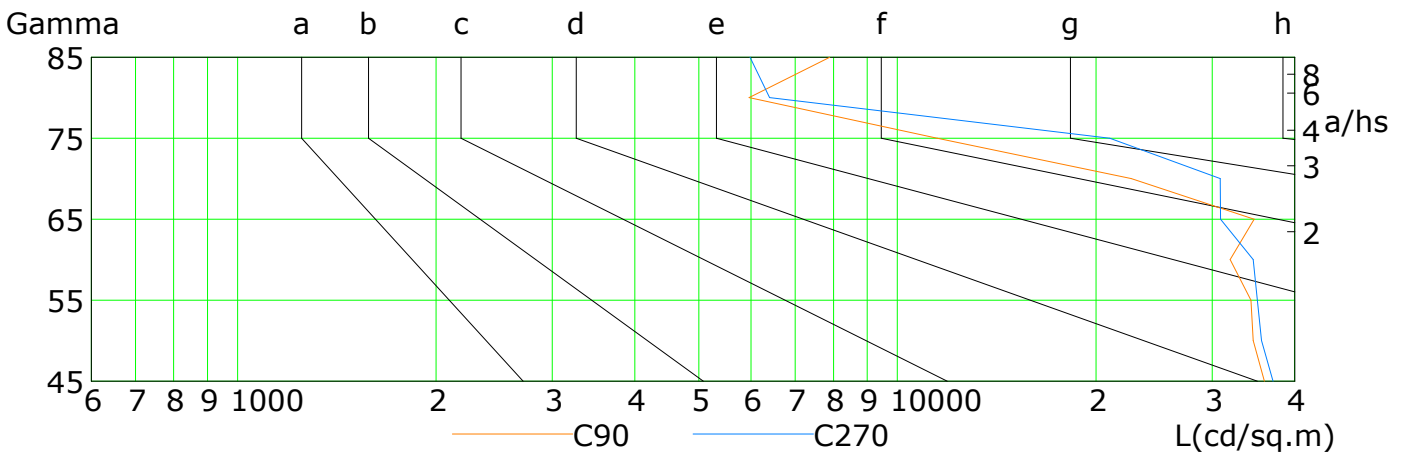
Humidity:

Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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	16315	14433	12514	10589	8424	6241	4055	2058	680
C90	36005	34607	34337	31948	34748	22623	11495	5961	7894
C180	15961	14031	12062	10044	7798	5563	3317	1426	360
C270	37113	35633	35113	34631	30885	30844	20977	6403	5980

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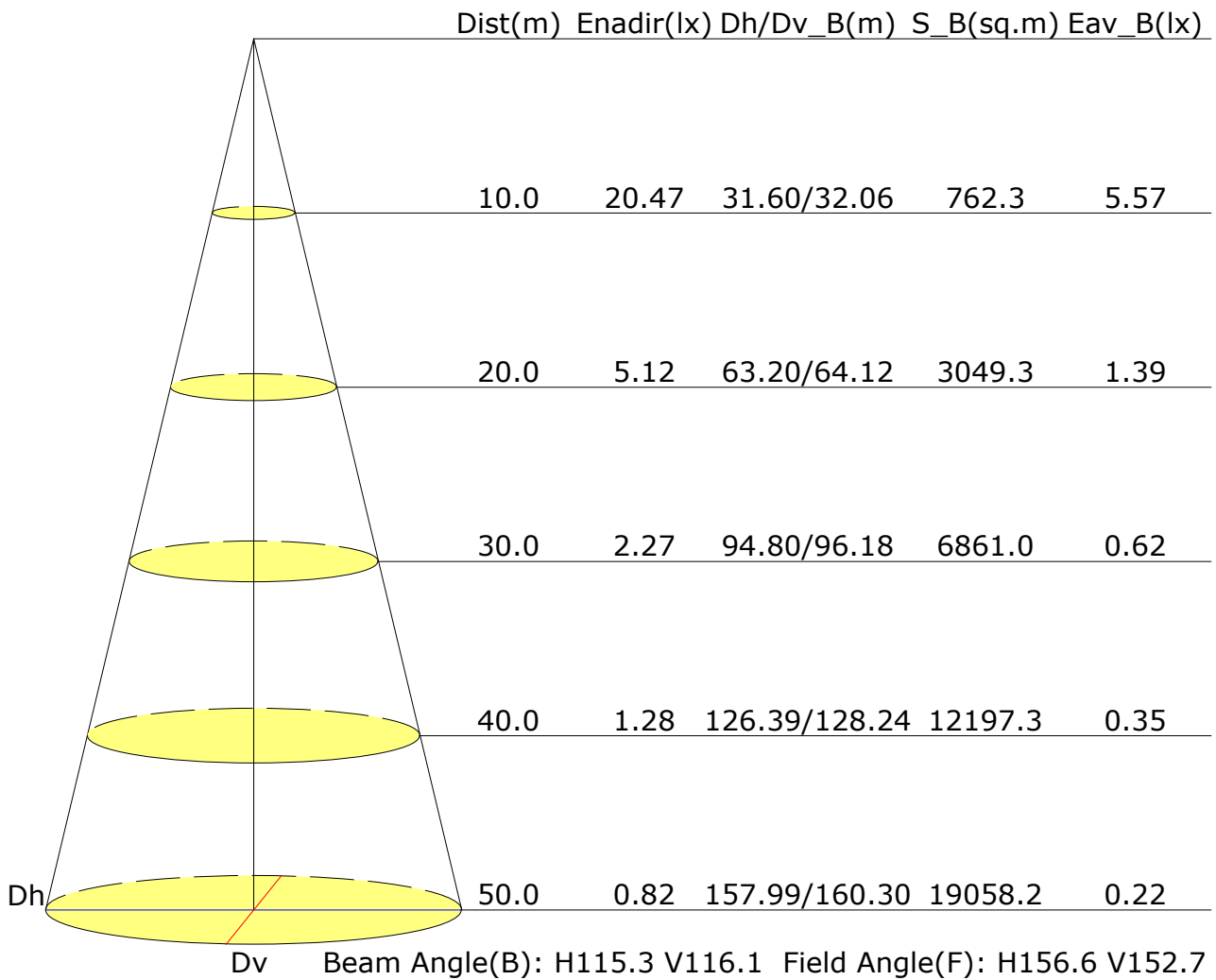
Test Device: LSG-1800B

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

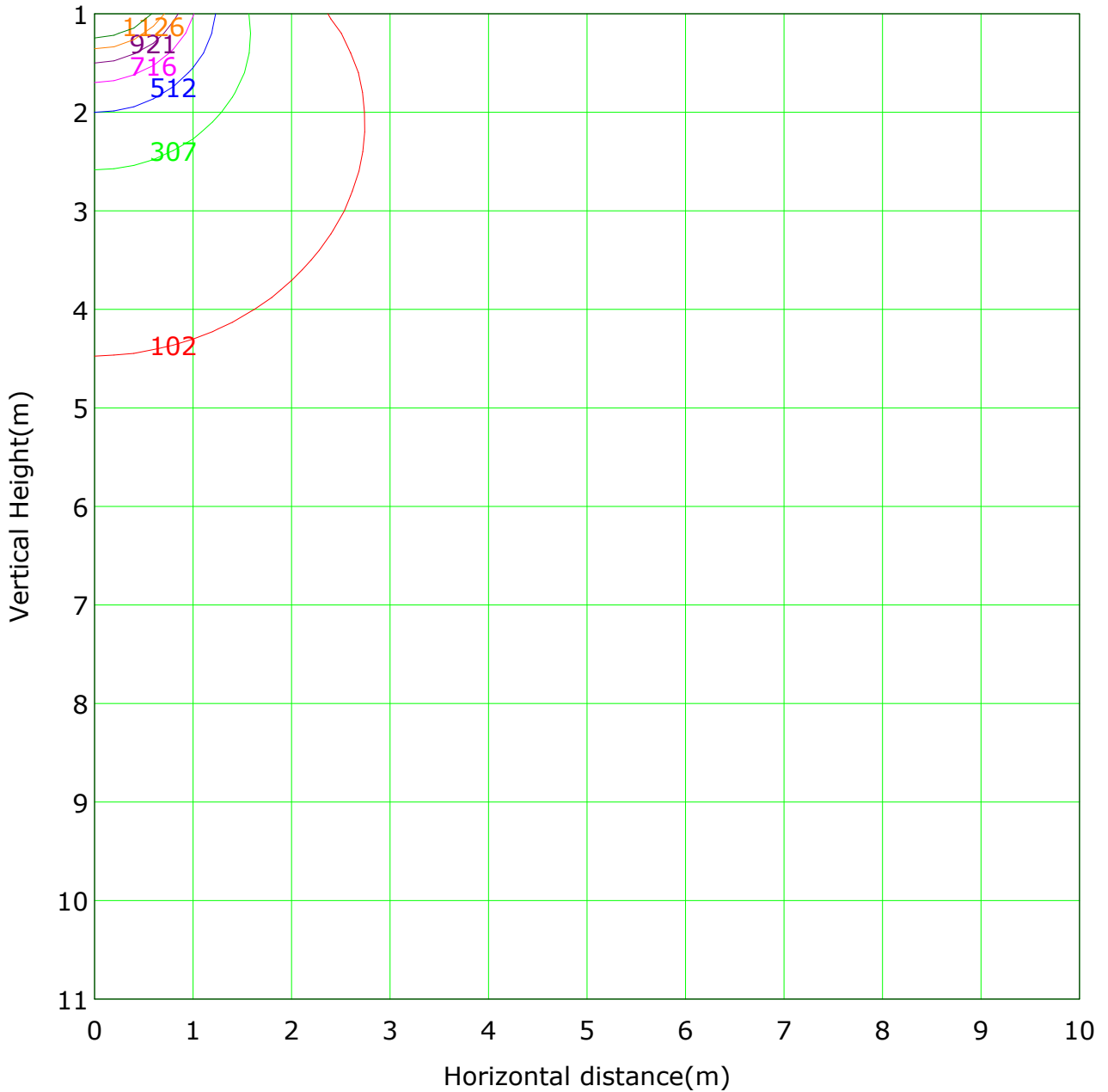
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot

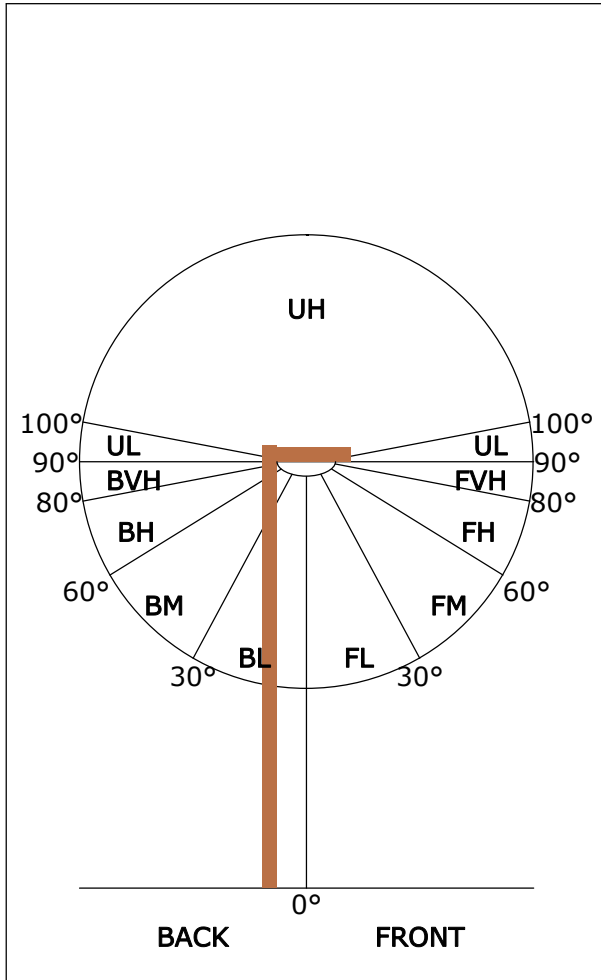


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 2046.7 lx
— (5%): 102.3 lx	— (15%): 307.0 lx	
— (25%): 511.7 lx	— (35%): 716.3 lx	
— (45%): 921.0 lx	— (55%): 1125.7 lx	
— (65%): 1330.3 lx		

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FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2924	49.2
FL (0°-30°)	809	13.6
FM (30°-60°)	1556	26.2
FH (60°-80°)	523	8.8
FVH (80°-90°)	35	0.6
BACK LIGHT	2959	49.7
BL (0°-30°)	799	13.4
BM (30°-60°)	1575	26.5
BH (60°-80°)	552	9.3
BVH (80°-90°)	33	0.6
UP LIGHT	66	1.1
UL (90°-100°)	24	0.4
UH (100°-180°)	42	0.7
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

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