

Report No.: 1

Test Time: 30.01.2019 13:12

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 595 40LED 0,3A 38W 5000K

Lamp Description: LED

Luminous Length (mm): 595 mm

Luminous Height (mm): 35 mm

Current: 0.165 A

Power Factor: 0.985

Number of Lamps: 1

Luminous Width (mm): 595 mm

Voltage: 231.8 V

Power: 37.77 W

Photometric Results

CIE Class: Direct

Measurement Flux: 5486 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.1, 156.7, 156.5, 156.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.6, 115.7, 115.7, 115.5

Luminaire Efficacy Rating (LER): 145.30

Max. Intensity: 1887.33 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 5486.0 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1887.33 cd

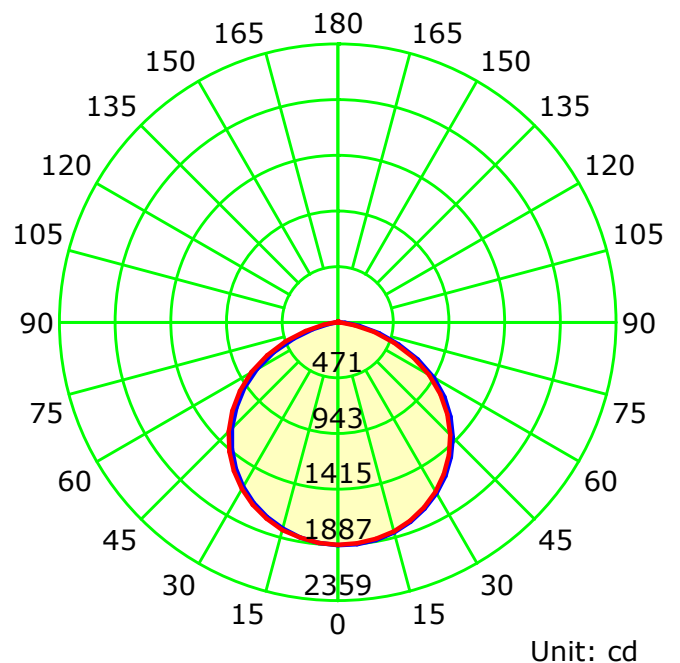
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.29

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

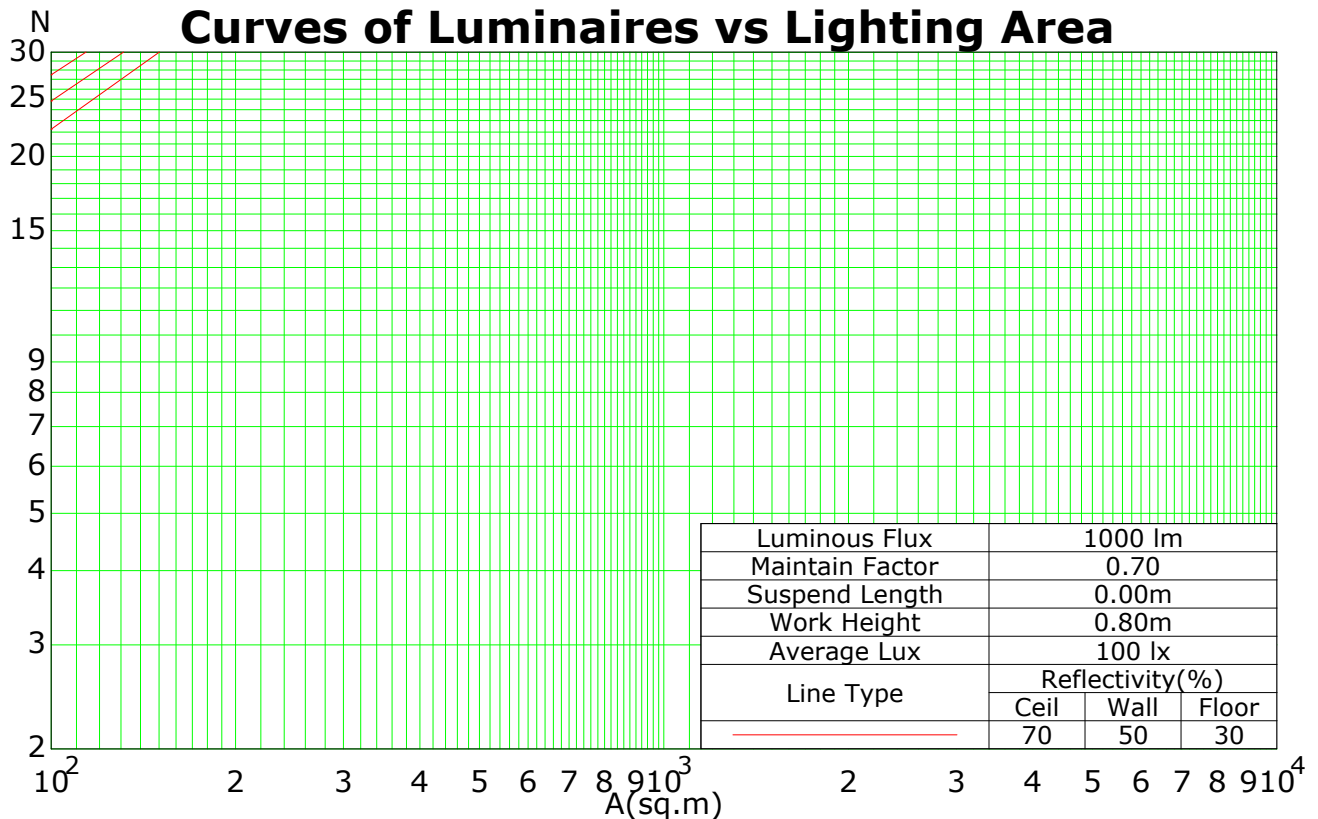
Humidity:

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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

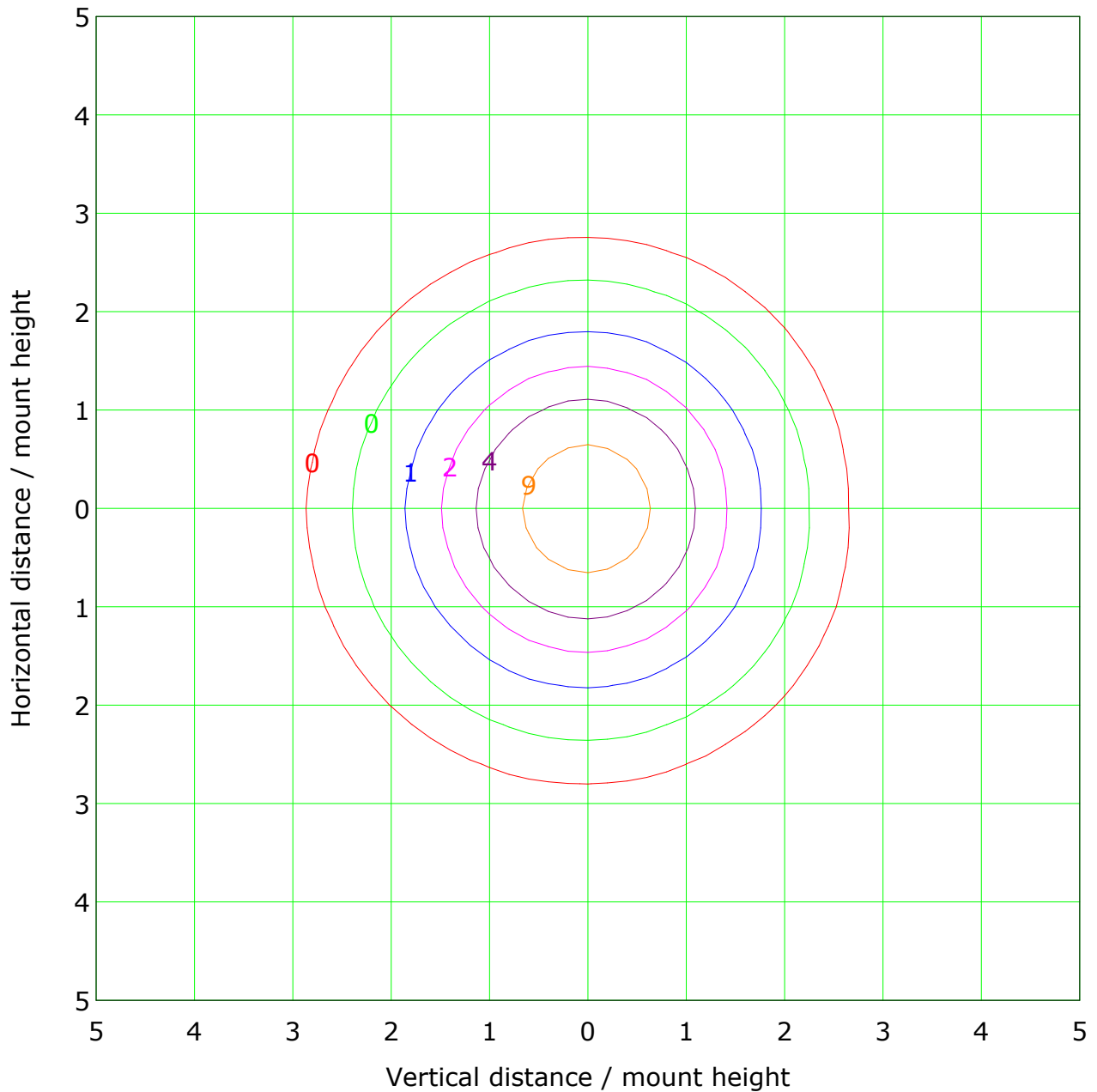
Spacing Criteria (0-180): 1.29
 Spacing Criteria (90-270): 1.29
 Spacing Criteria (Diagonal): 1.41



C Plane (°):0.0-360.0: 22.5
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 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 18.9 lx

(1%): 0.2 lx	(2%): 0.4 lx
(5%): 0.9 lx	(10%): 1.9 lx
(20%): 3.8 lx	(50%): 9.4 lx
(100%): 18.9 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

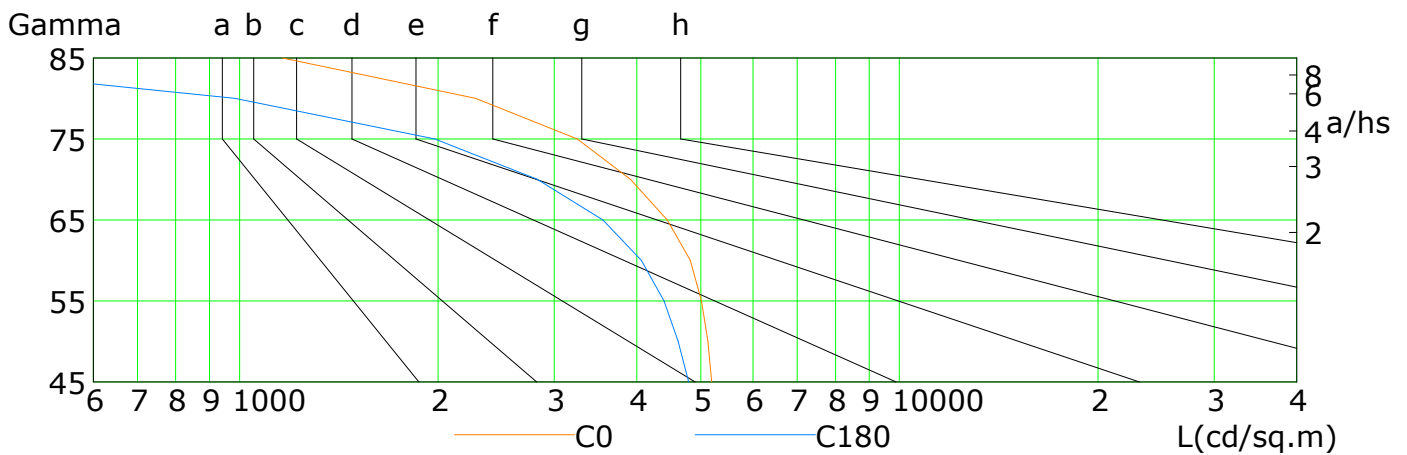
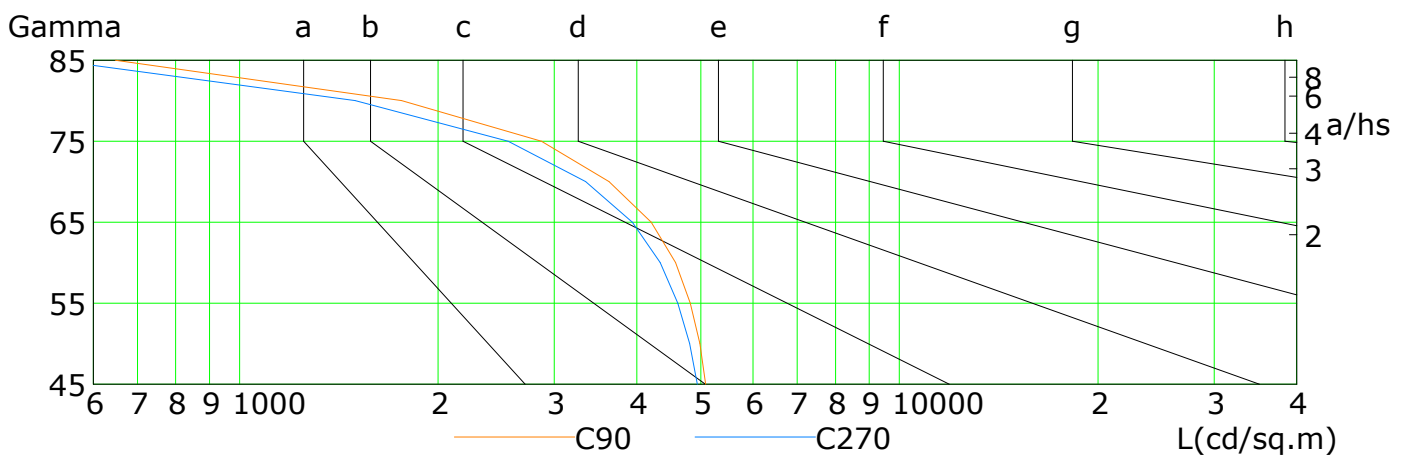
Humidity:

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	5196	5125	5012	4822	4447	3912	3248	2278	1162
C90	5088	4983	4818	4578	4208	3629	2866	1759	648
C180	4793	4622	4401	4063	3555	2825	1977	984	253
C270	4940	4810	4616	4338	3938	3345	2554	1497	525

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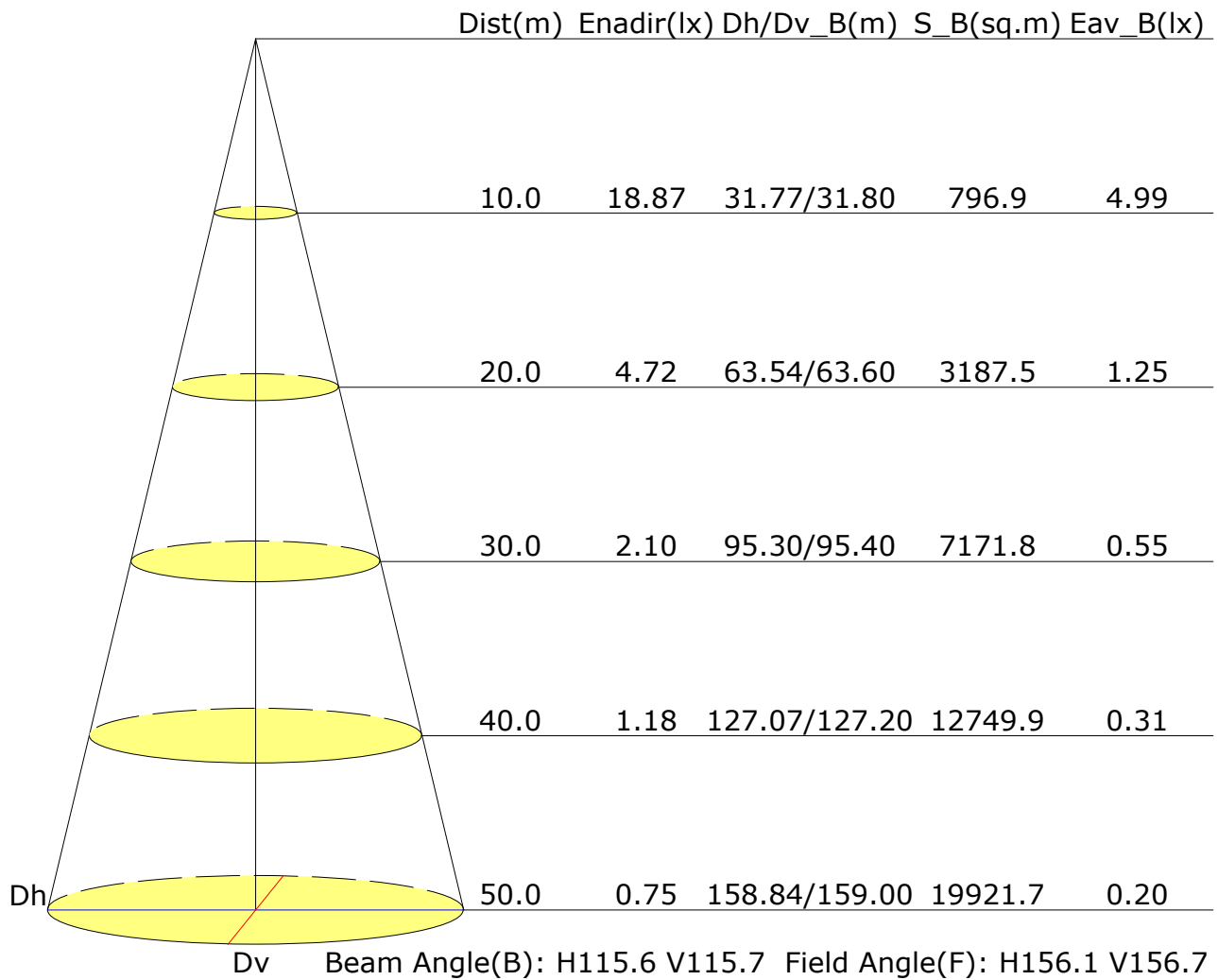
Test Device: LSG-1800B

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

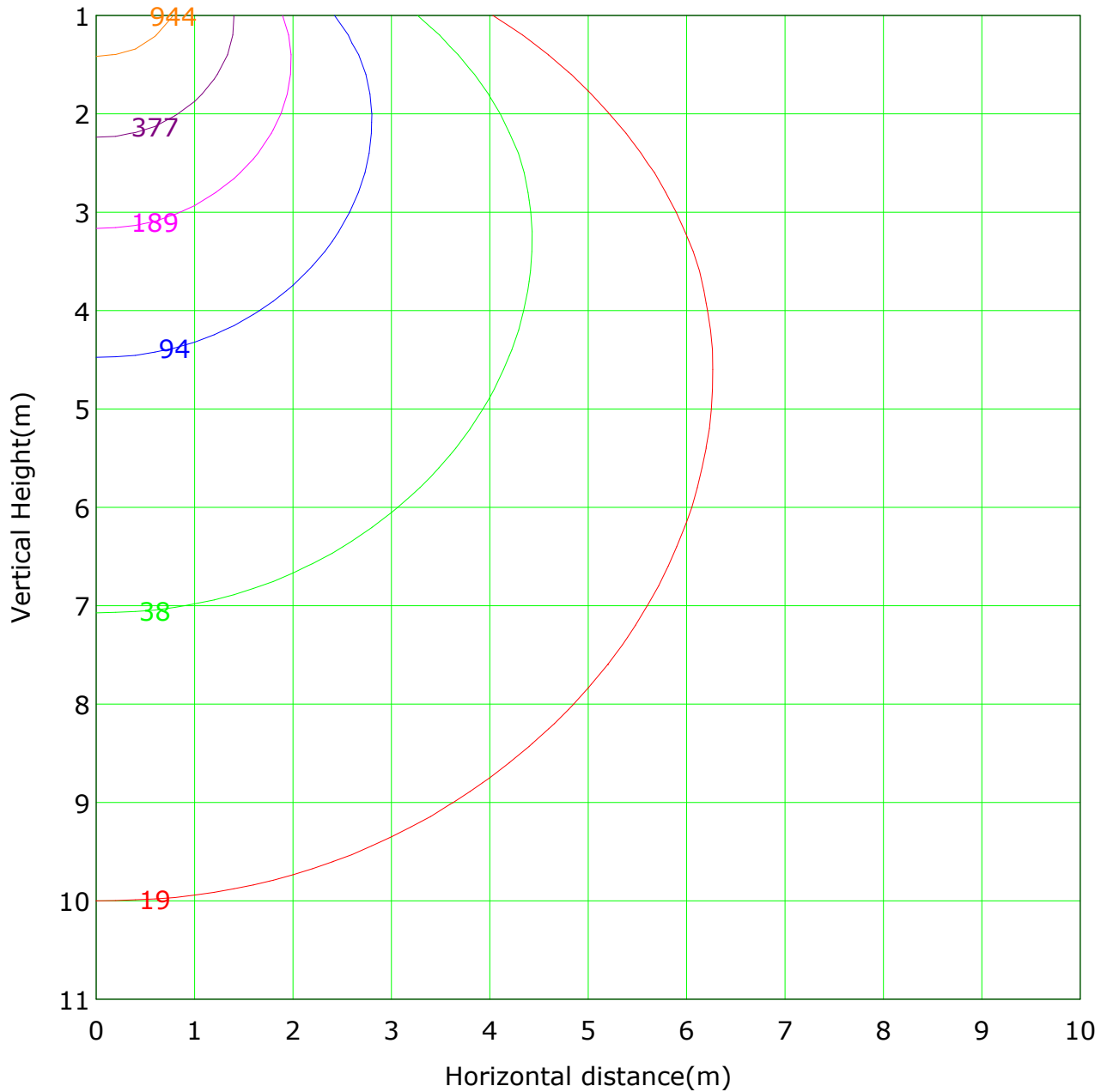
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1887.3 lx
— (1%): 18.9 lx — (2%): 37.7 lx
— (5%): 94.4 lx — (10%): 188.7 lx
— (20%): 377.5 lx — (50%): 943.7 lx
— (100%):1887.3 lx

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

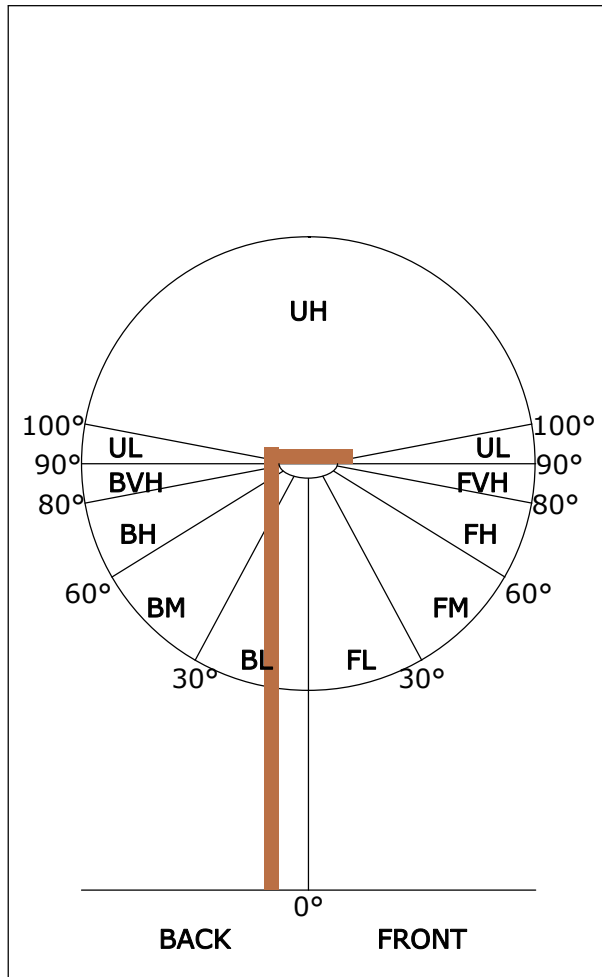
Gamma Plane (°):0.0-180.0:5.0

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	2761	50.3
FL (0°-30°)	746	13.6
FM (30°-60°)	1474	26.9
FH (60°-80°)	512	9.3
FVH (80°-90°)	29	0.5
BACK LIGHT	2692	49.1
BL (0°-30°)	740	13.5
BM (30°-60°)	1442	26.3
BH (60°-80°)	484	8.8
BVH (80°-90°)	26	0.5
UP LIGHT	32	0.6
UL (90°-100°)	5	0.1
UH (100°-180°)	28	0.5
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U2 G1

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