

Report No.: 1

Test Time: 16.11.2018 10:27

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 80 105LED 0,35A 46W 5000K 60 degrees F15524

Lamp Description: LED

Luminous Width (mm): 80

Voltage: 221.2 V

Power: 47.48 W

Luminous Length (mm): 1500

Luminous Height (mm): 75

Current: 0.217 A

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Measurement Flux: 6394.4 lm

Downward Ratio: 97%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 137.0, 94.1, 110.9, 110.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 95.5, 57.3, 66.2, 66.4

Luminaire Efficacy Rating (LER): 134.72

Max. Intensity: 4156.92 cd

S/MH(C0/C180): 1.40

Total Rated Lamp Lumens: 6394.4 lm

Efficiency: 100%

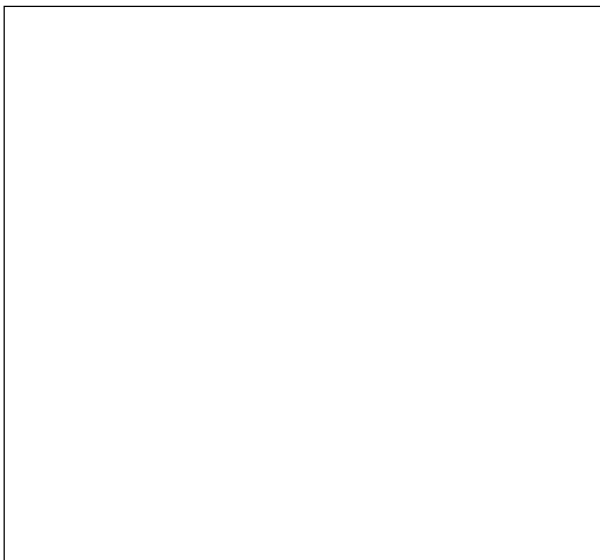
Upward Ratio: 3%

Central Intensity: 4115.99 cd

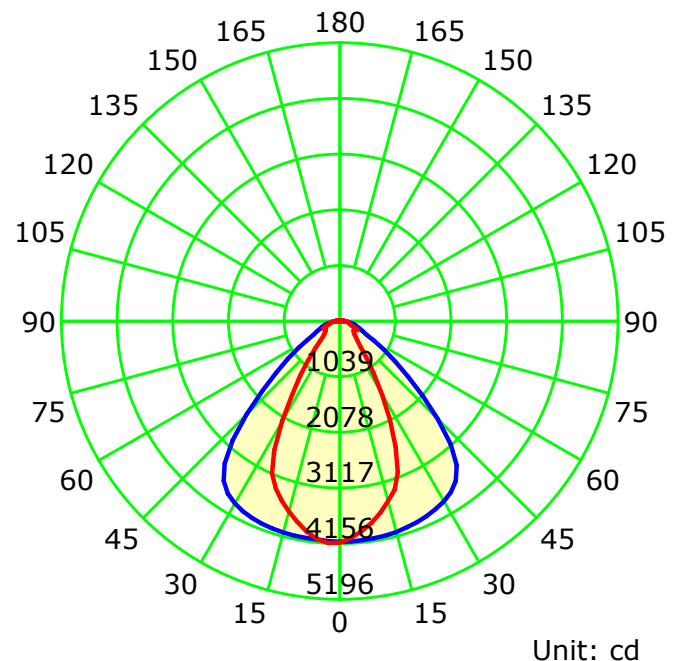
Pos of Max. Intensity: H320 V3

S/MH(C90/C270): 0.92

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:3.0

Test Device: LSG-1800B

Distance: 12.654 m

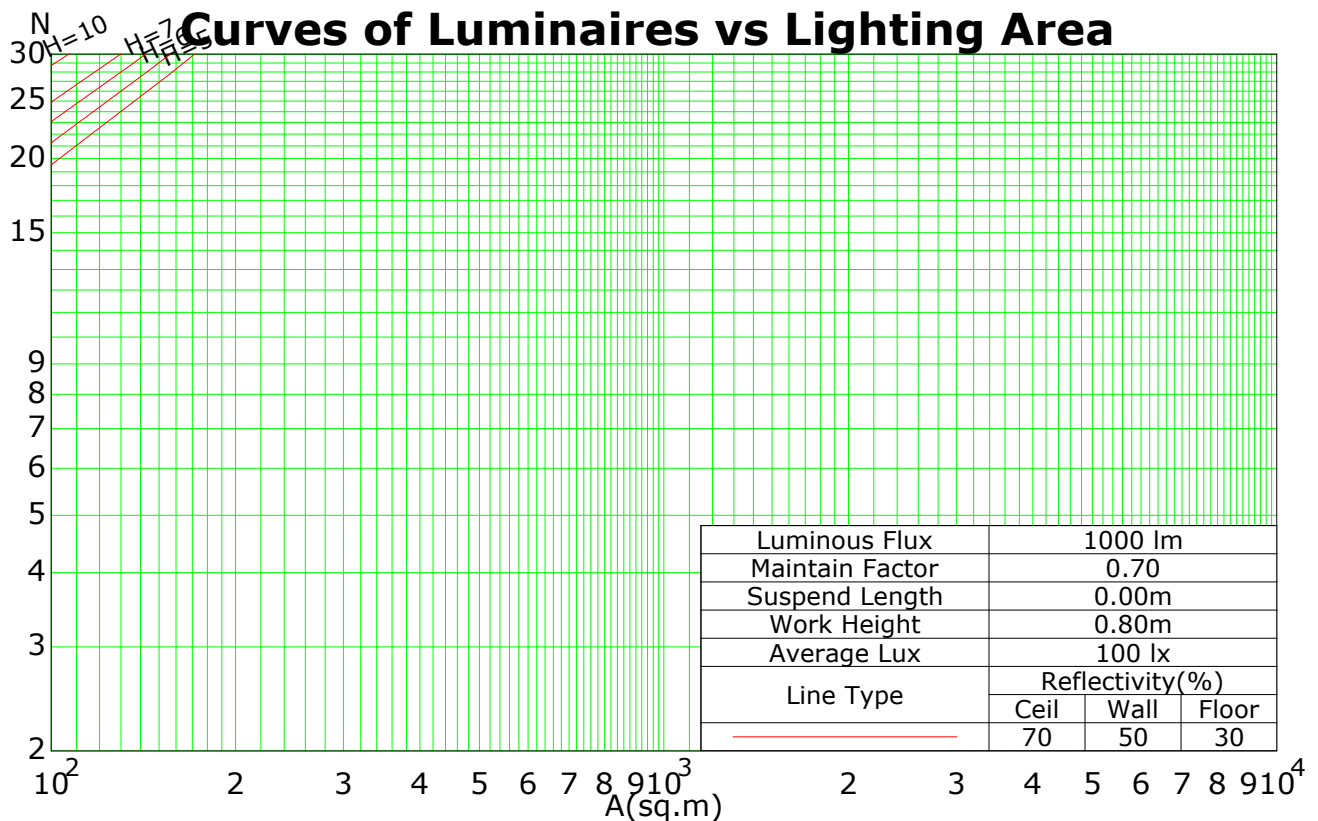
Humidity:

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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97
1	110	106	102	99	107	104	100	97	99	96	94	95	92	91	91	89	87	85
2	102	95	90	85	99	93	88	84	89	85	82	86	82	79	83	80	77	75
3	95	86	80	74	93	85	78	73	81	76	72	78	74	70	76	72	69	67
4	89	79	71	66	86	77	70	65	74	69	64	72	67	63	70	65	62	60
5	83	72	64	59	81	71	64	58	68	62	58	66	61	57	64	60	56	54
6	78	66	59	53	76	65	58	53	63	57	52	61	56	52	60	55	51	49
7	73	61	54	48	71	60	53	48	59	52	48	57	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	43	40	38
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	35

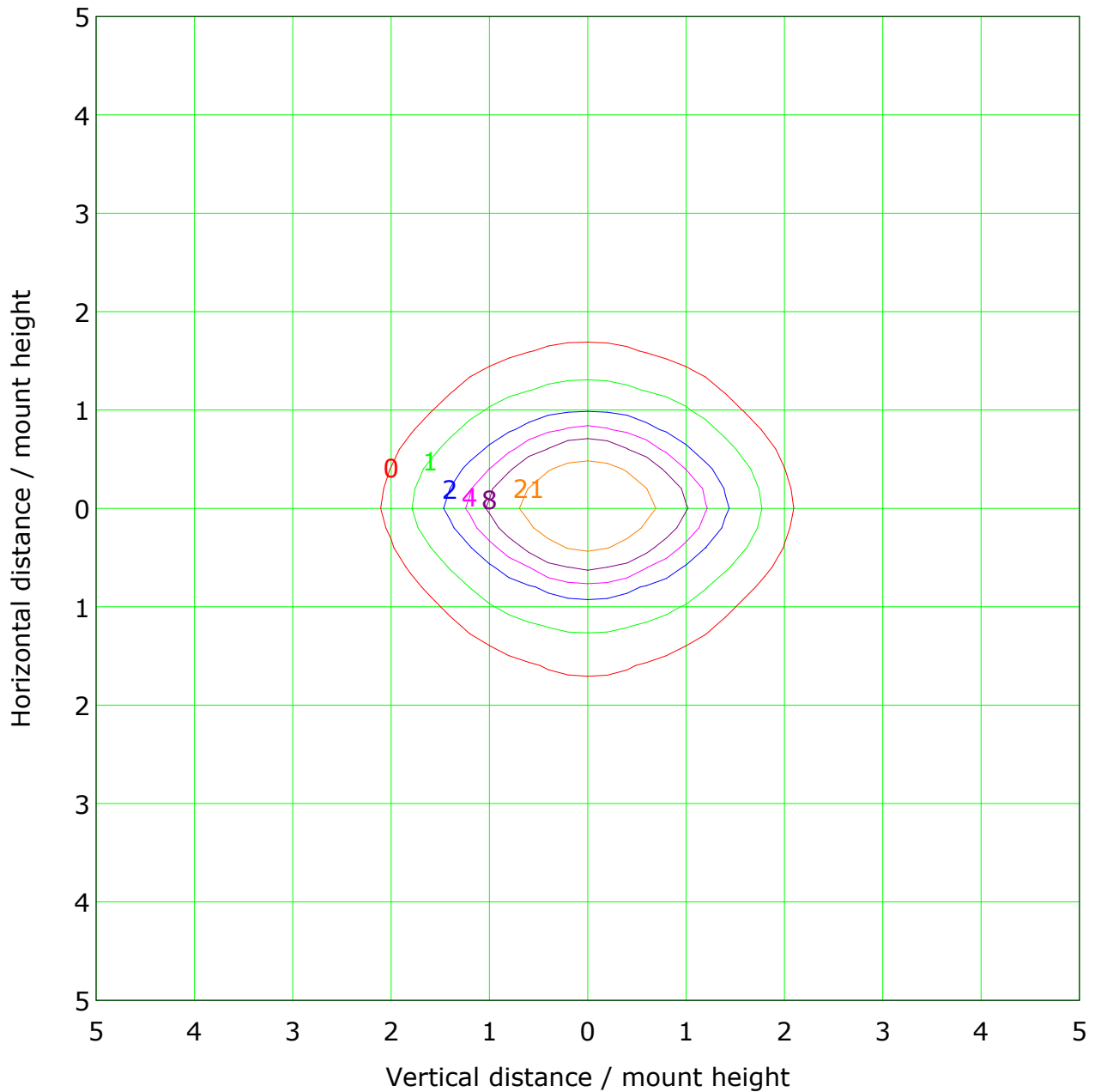
Spacing Criteria (0-180): 1.40
 Spacing Criteria (90-270): 0.92
 Spacing Criteria (Diagonal): 0.98



C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:3.0
 Test Device: LSG-1800B
 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 41.4 lx

(1%): 0.4 lx	(2%): 0.8 lx
(5%): 2.1 lx	(10%): 4.1 lx
(20%): 8.3 lx	(50%): 20.7 lx
(100%): 41.4 lx	

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:3.0

Test Device: LSG-1800B

Distance: 12.654 m

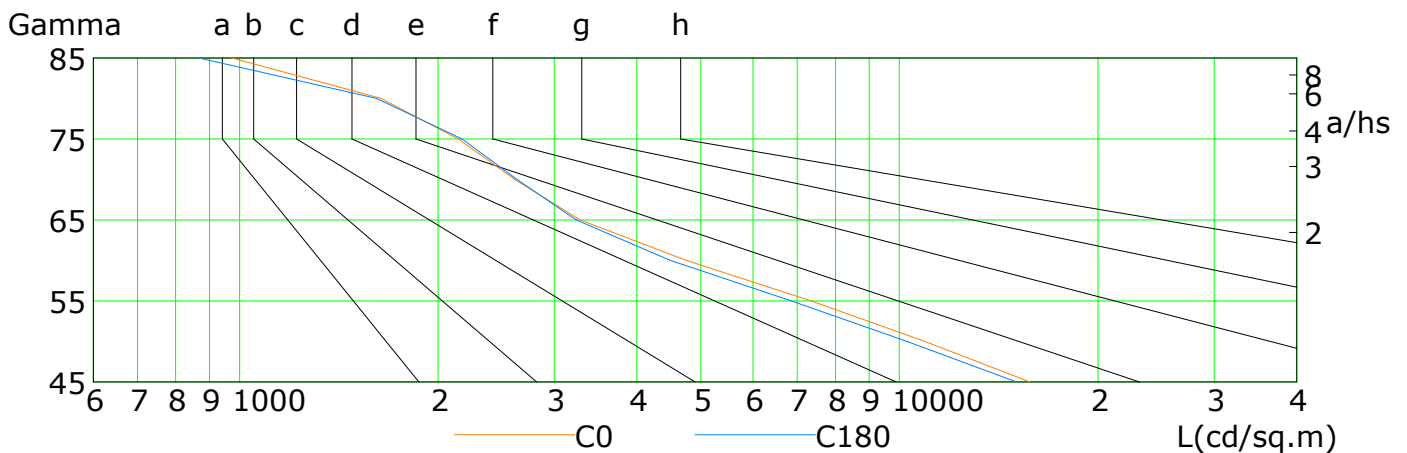
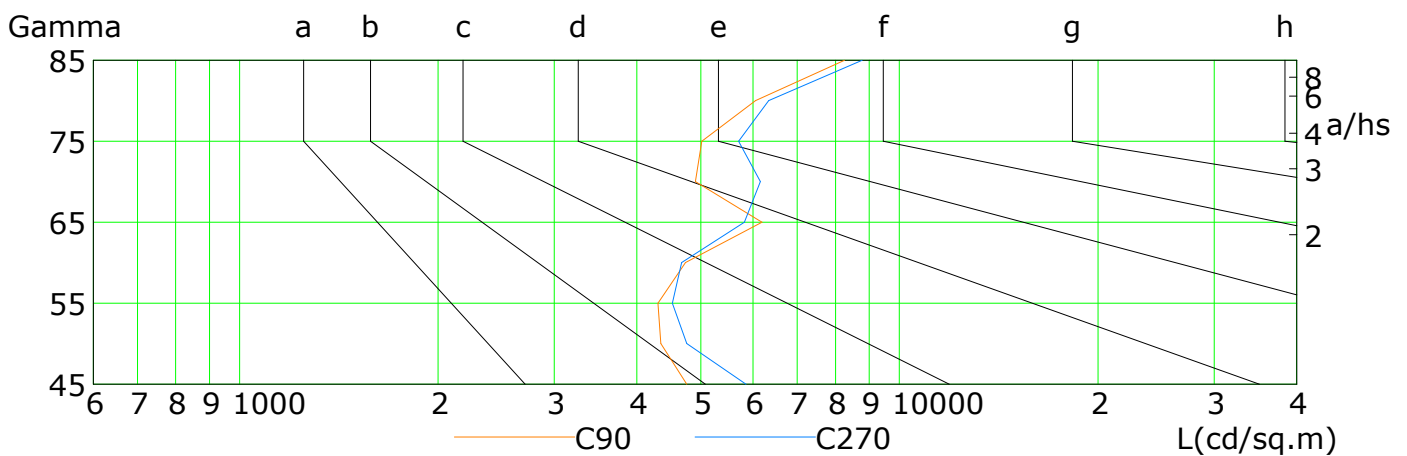
Humidity:

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	15760	10913	7353	4751	3284	2611	2145	1637	973
C90	4760	4351	4307	4741	6189	4908	5020	6054	8259
C180	15042	10261	6860	4493	3239	2632	2173	1611	868
C270	5852	4764	4528	4675	5822	6160	5704	6340	8778

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:3.0

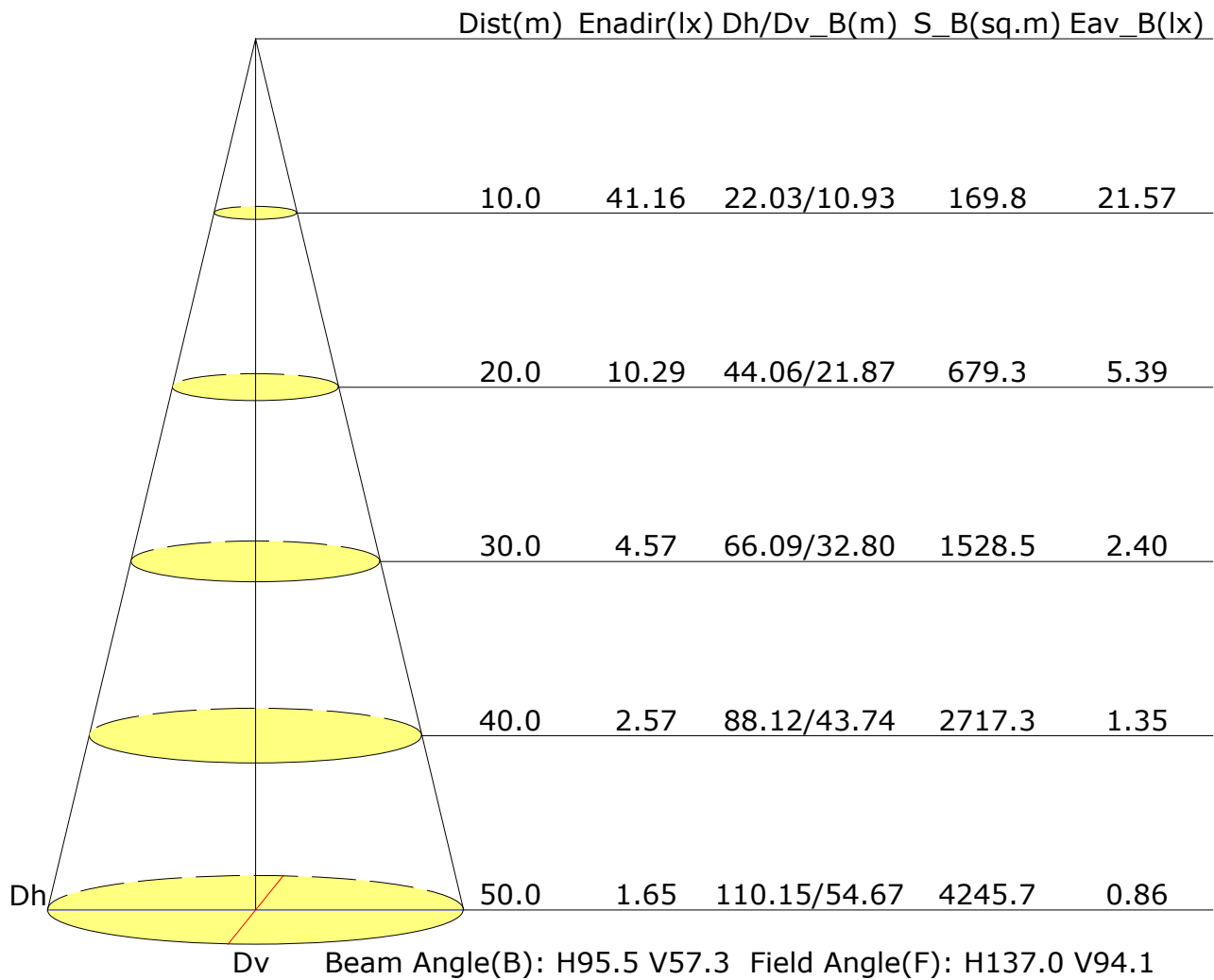
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:3.0

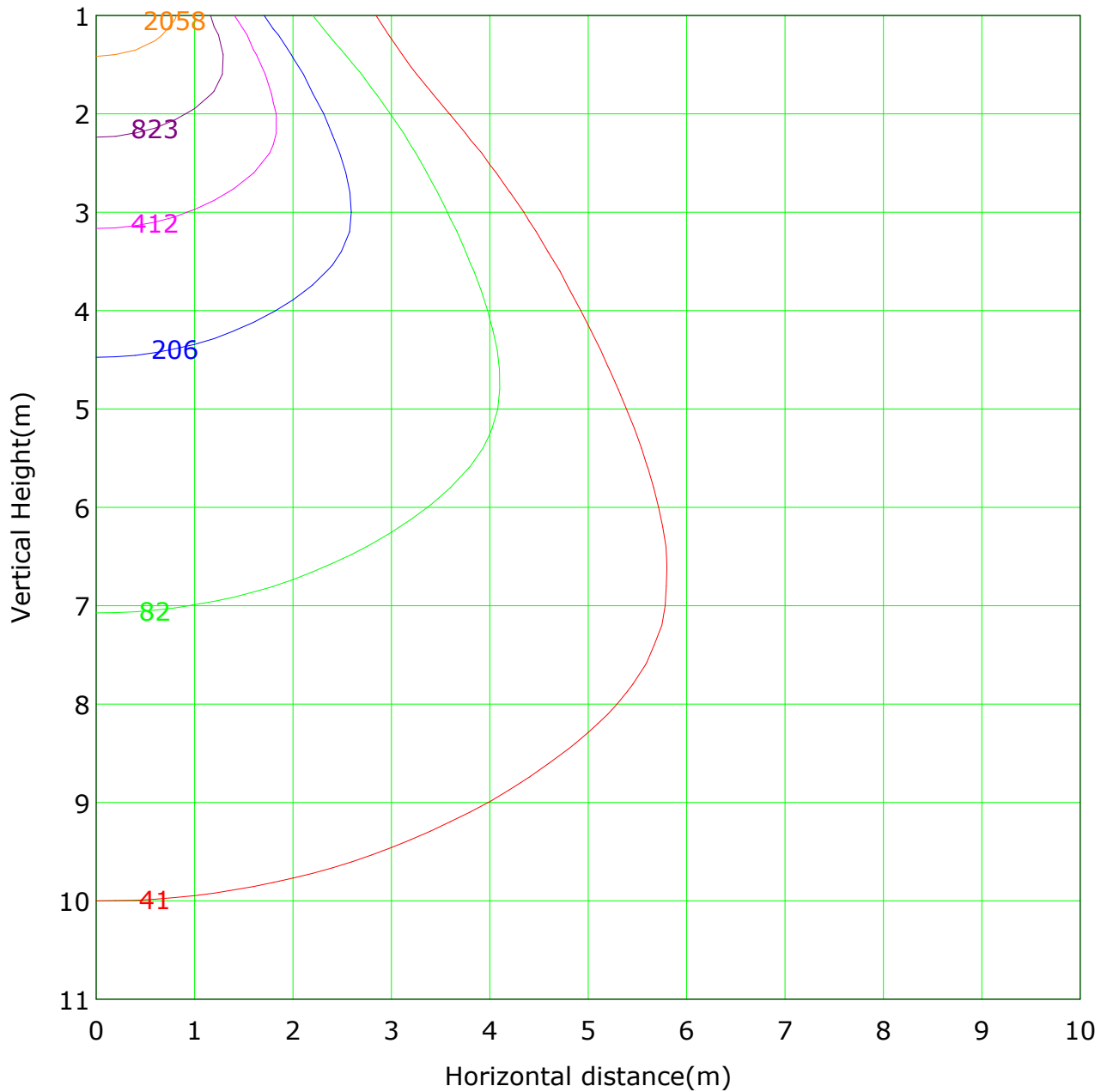
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4116.0 lx
— (1%): 41.2 lx — (2%): 82.3 lx
— (5%): 205.8 lx — (10%): 411.6 lx
— (20%): 823.2 lx — (50%): 2058.0 lx
— (100%): 4116.0 lx

C Plane (°): 0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

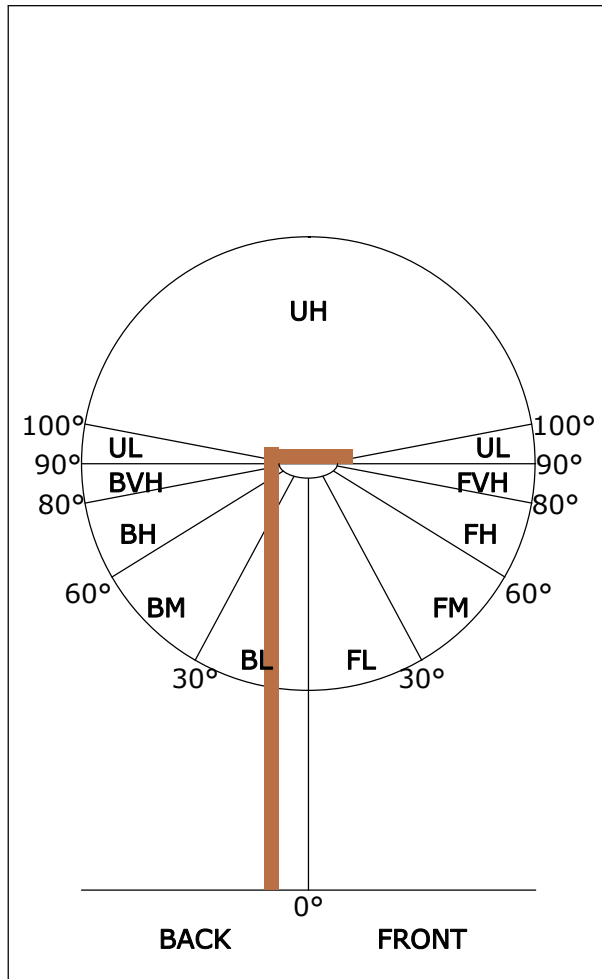
Gamma Plane (°): 0.0-180.0: 3.0

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	2866	44.8
FL (0°-30°)	1412	22.1
FM (30°-60°)	1164	18.2
FH (60°-80°)	290	4.5
FVH (80°-90°)	-0	-0.0
BACK LIGHT	3234	50.6
BL (0°-30°)	1524	23.8
BM (30°-60°)	1402	21.9
BH (60°-80°)	307	4.8
BVH (80°-90°)	1	0.0
UP LIGHT	178	2.8
UL (90°-100°)	65	1.0
UH (100°-180°)	113	1.8
TRAPPED LIGHT	117	1.8

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U3 G0

C Plane (°):0.0-360.0: 10.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:3.0
 Test Device: LSG-1800B
 Distance: 12.654 m
 Humidity:
 Inspector: