

Report No.: 1

Test Time: 16.11.2018 12:22

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 80 105LED 0,35A 46W 5000K ZT 25 backup

Lamp Description: LED

Luminous Width (mm): 80

Voltage: 221.6 V

Power: 46.34 W

Luminous Length (mm): 1500

Luminous Height (mm): 75

Current: 0.212 A

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Measurement Flux: 6204.2 lm

Downward Ratio: 97%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 153.6, 116.8, 127.9, 128.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 78.8, 46.4, 57.1, 55.2

Luminaire Efficacy Rating (LER): 133.94

Max. Intensity: 4798.09 cd

S/MH(C0/C180): 1.08

Total Rated Lamp Lumens: 6204.2 lm

Efficiency: 100%

Upward Ratio: 3%

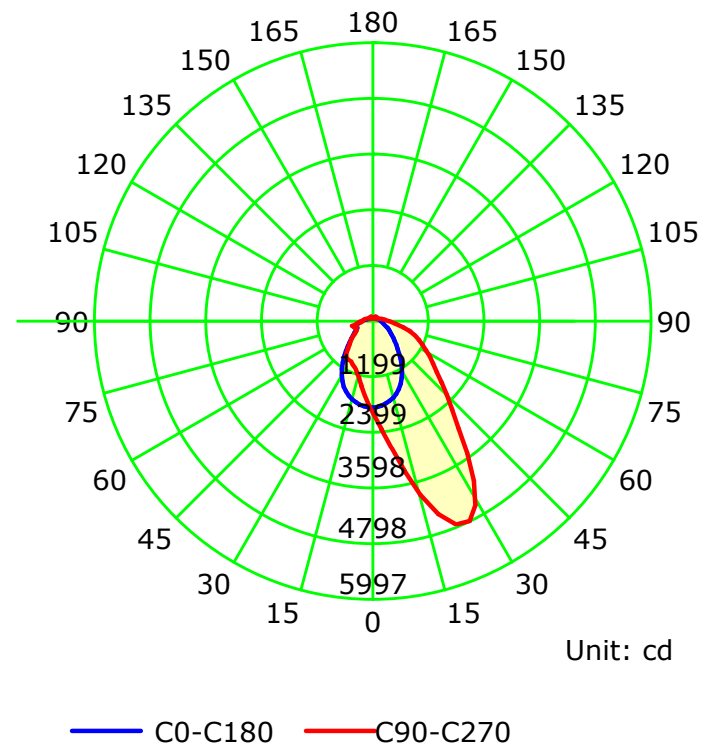
Central Intensity: 1863.22 cd

Pos of Max. Intensity: H260 V24

S/MH(C90/C270): 1.46

Picture Of Luminaire

Luminous Intensity Distribution Curve



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

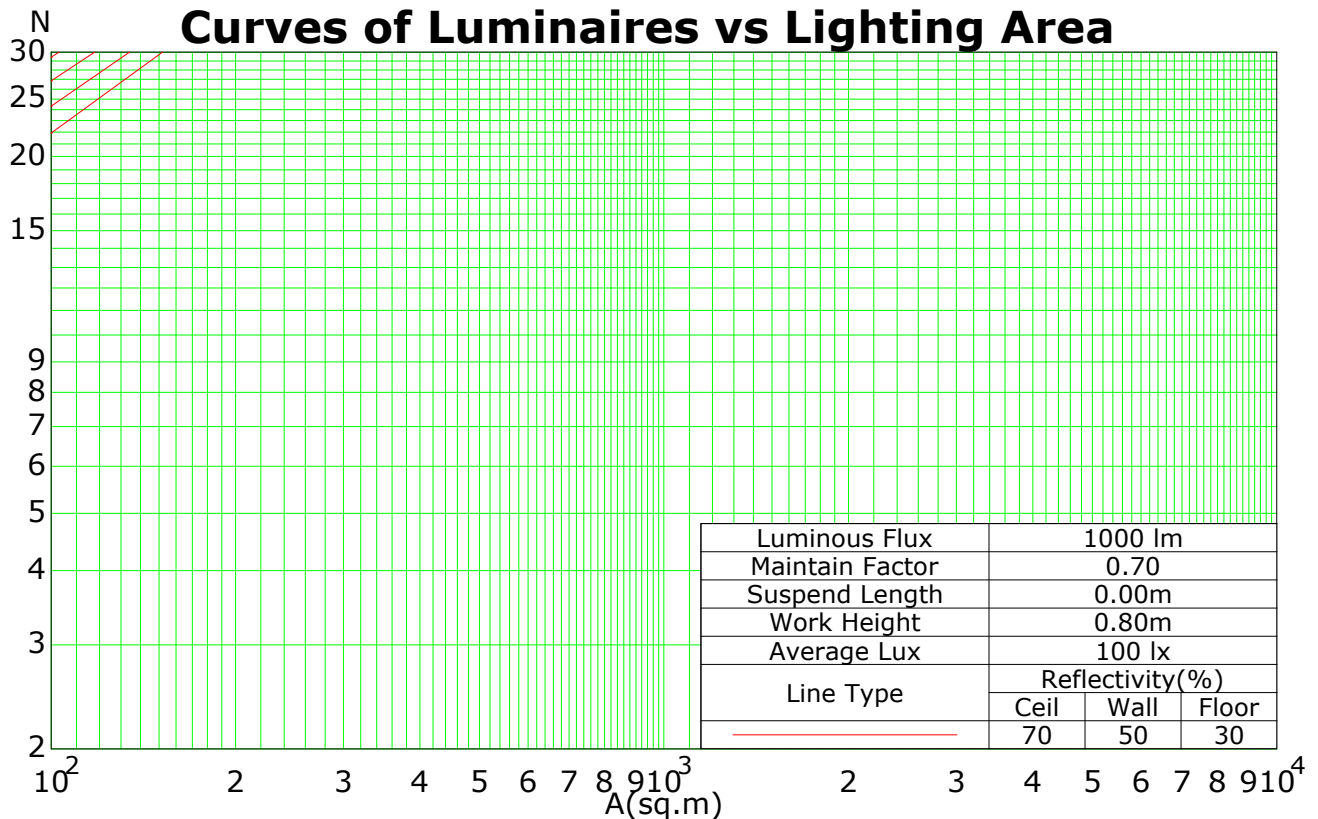
Humidity:

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	109	109	109	104	104	104	99	99	99	97
1	108	104	99	96	105	101	97	94	96	93	90	92	89	87	87	85	84	81
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	69
3	91	80	73	66	88	79	71	65	75	69	64	72	67	62	69	65	61	59
4	83	72	63	57	81	70	62	56	67	60	55	64	59	54	62	57	53	51
5	77	64	56	49	74	63	55	49	61	53	48	58	52	47	56	51	46	44
6	71	58	49	43	69	57	49	43	55	48	42	53	46	42	51	45	41	39
7	66	53	44	38	64	52	44	38	50	43	38	48	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	44	38	33	43	37	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

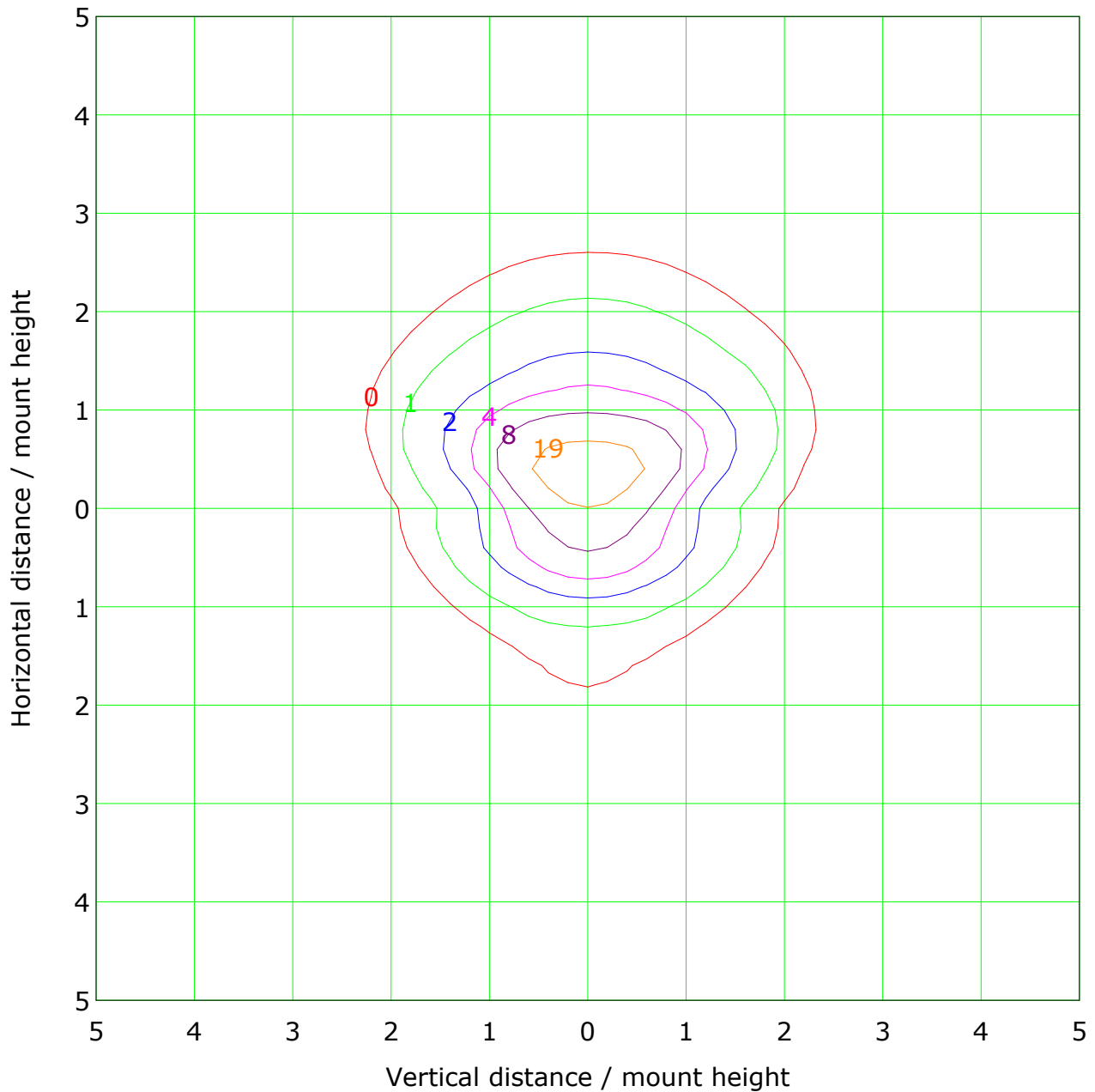
Spacing Criteria (0-180): 1.08
 Spacing Criteria (90-270): 1.46
 Spacing Criteria (Diagonal): 1.56



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 Distance: 12.654 m
 Humidity:
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IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 38.8 lx

(1%): 0.4 lx	(2%): 0.8 lx
(5%): 1.9 lx	(10%): 3.9 lx
(20%): 7.8 lx	(50%): 19.4 lx
(100%): 38.8 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

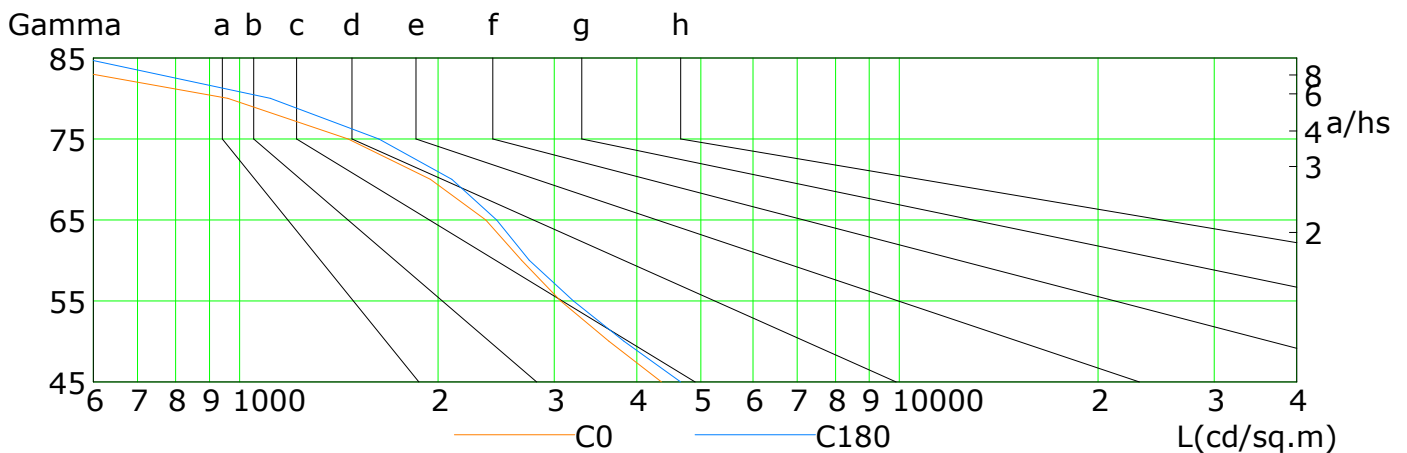
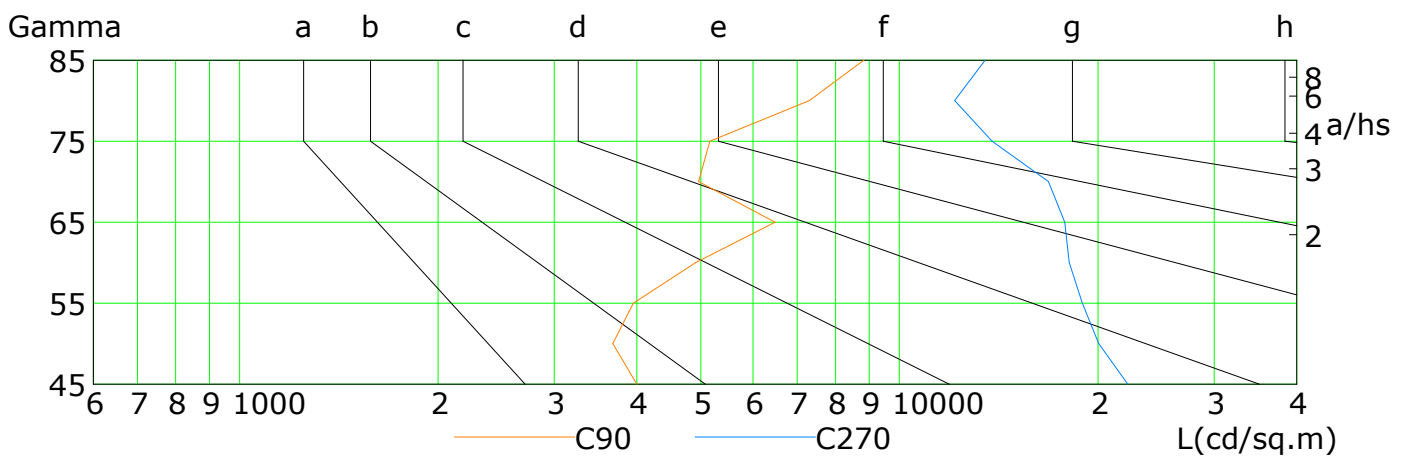
Humidity:

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	4358	3631	3065	2676	2360	1947	1461	959	439
C90	4000	3678	3953	4911	6481	4960	5161	7302	8829
C180	4661	3827	3205	2747	2453	2097	1626	1114	577
C270	22192	20053	18939	18083	17800	16820	13817	12129	13484

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Temperature:

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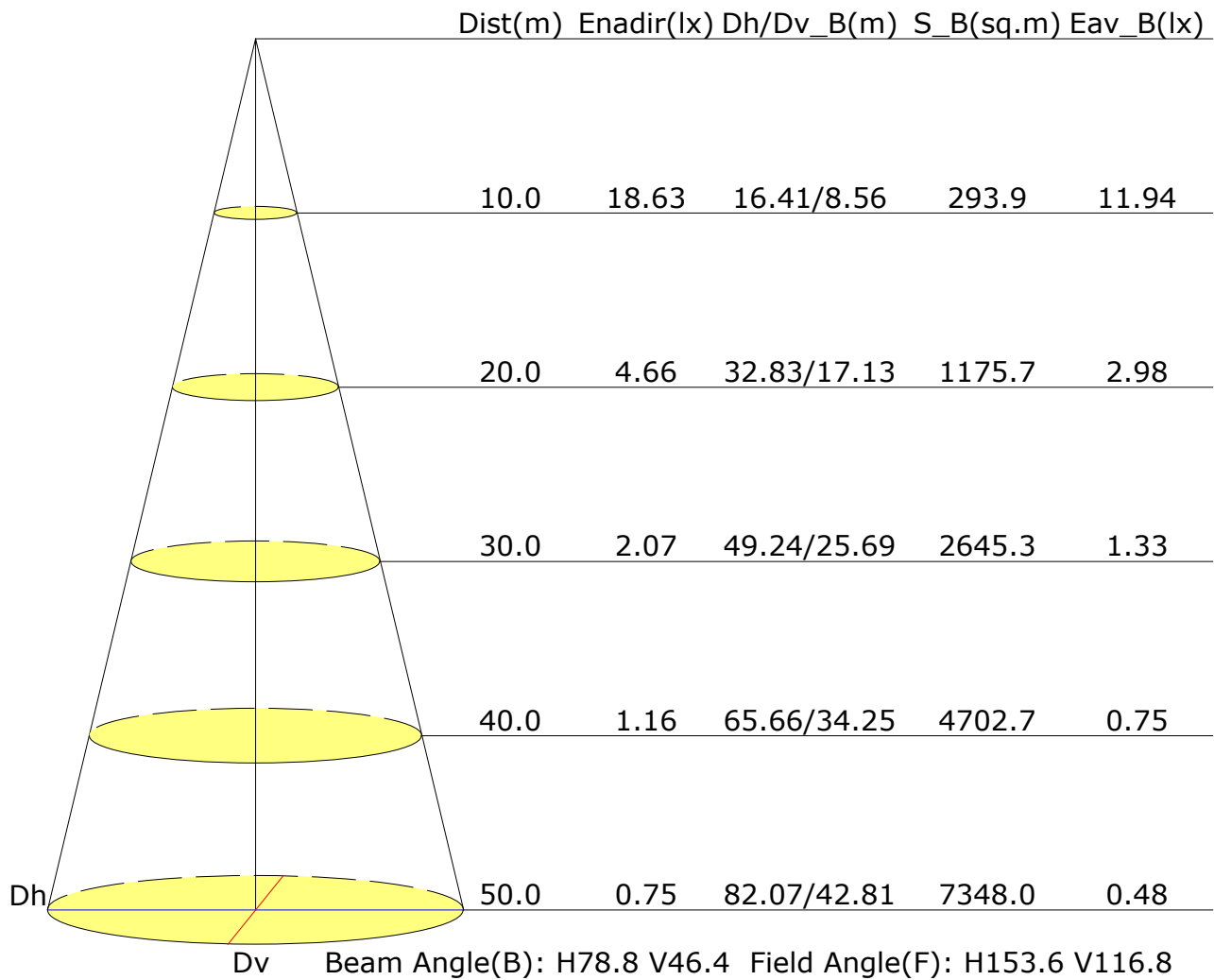
Test Device: LSG-1800B

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

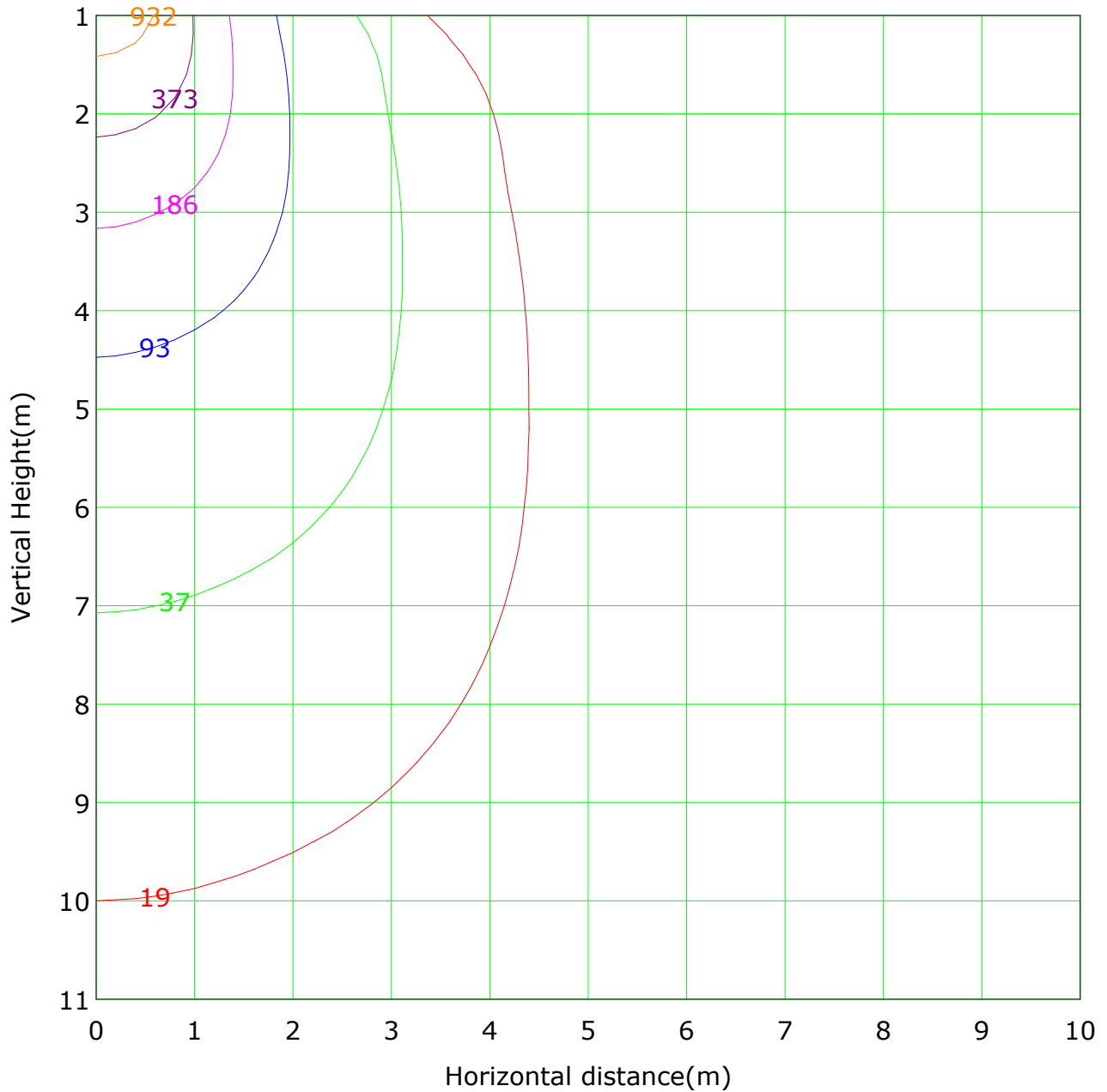
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1863.2 lx
— (1%): 18.6 lx — (2%): 37.3 lx
— (5%): 93.2 lx — (10%): 186.3 lx
— (20%): 372.6 lx — (50%): 931.6 lx
— (100%):1863.2 lx

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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	1398	22.5
FL (0°-30°)	504	8.1
FM (30°-60°)	654	10.5
FH (60°-80°)	241	3.9
FVH (80°-90°)	-0	-0.0
BACK LIGHT	4432	71.4
BL (0°-30°)	1329	21.4
BM (30°-60°)	2408	38.8
BH (60°-80°)	697	11.2
BVH (80°-90°)	-2	-0.0
UP LIGHT	223	3.6
UL (90°-100°)	75	1.2
UH (100°-180°)	148	2.4
TRAPPED LIGHT	151	2.4

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U3 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U3 G1

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