

Report No.: 1

Test Time: 12.02.2019 15:52

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 80LED 0,6A 75W 5000K

Lamp Description: LED

Luminous Width (mm): 55

Voltage: 221.6 V

Power: 75.08 W

Luminous Length (mm): 1545

Luminous Height (mm): 90

Current: 0.344 A

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 10878.2 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.3, 160.0, 151.2, 152.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 118.2, 124.9, 115.4, 115.6

Luminaire Efficacy Rating (LER): 144.94

Max. Intensity: 3719.28 cd

S/MH(C0/C180): 1.30

Total Rated Lamp Lumens: 10878.2 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 3719.27 cd

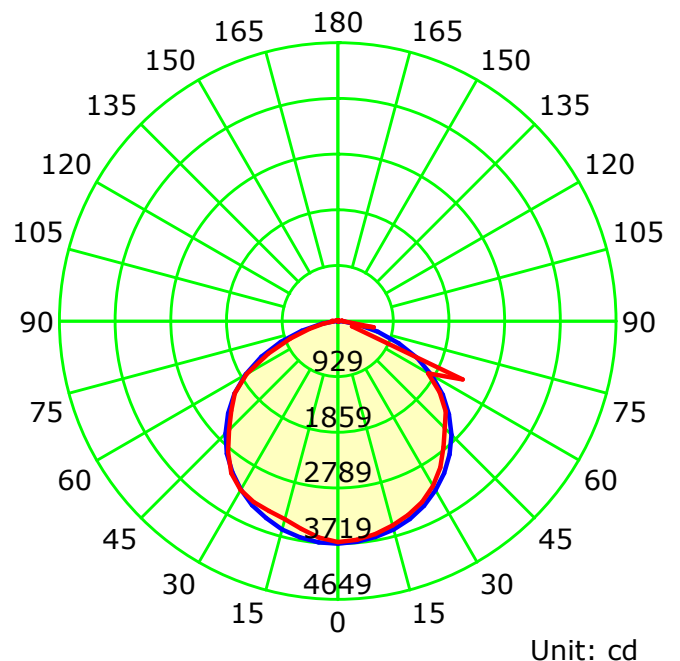
Pos of Max. Intensity: H0 V0

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

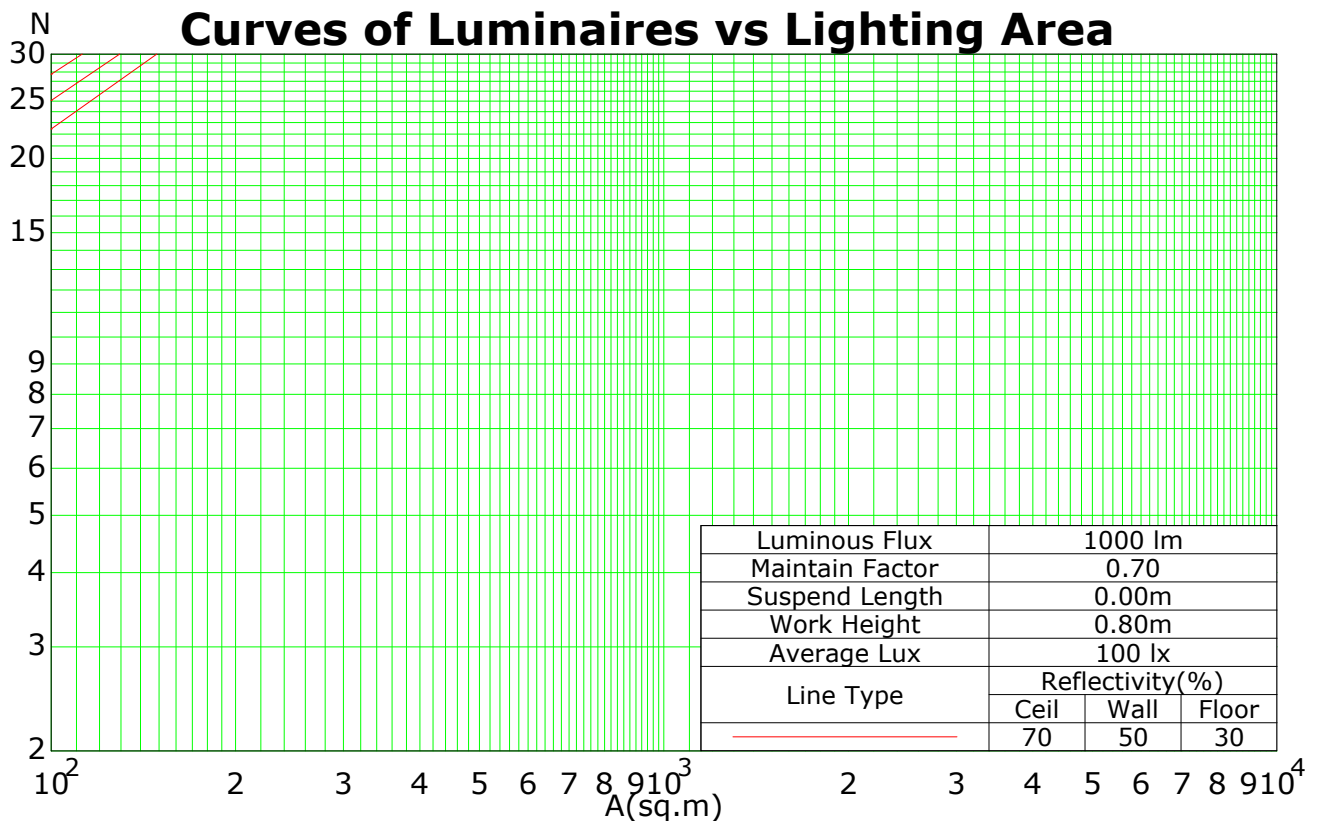
Humidity:

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	101	101	101	99
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	89	87	86	83
2	99	91	84	78	96	89	83	77	85	80	75	82	77	73	78	75	72	69
3	90	80	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	62	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	45	55	49	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

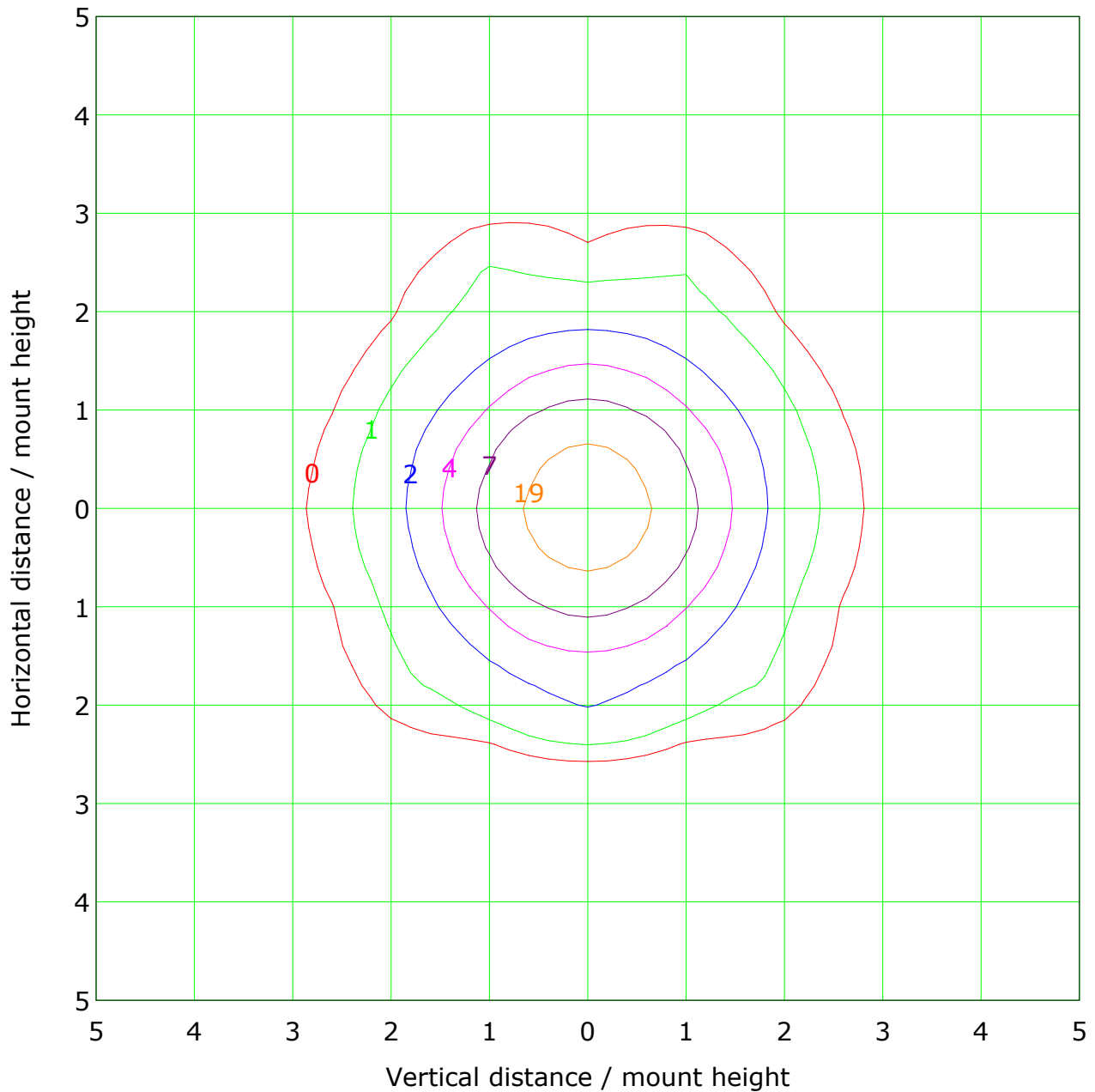
Spacing Criteria (0-180): 1.30
 Spacing Criteria (90-270): 1.29
 Spacing Criteria (Diagonal): 1.41



C Plane (°):0.0-360.0: 22.5
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 Test Device: LSG-1800B
 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



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

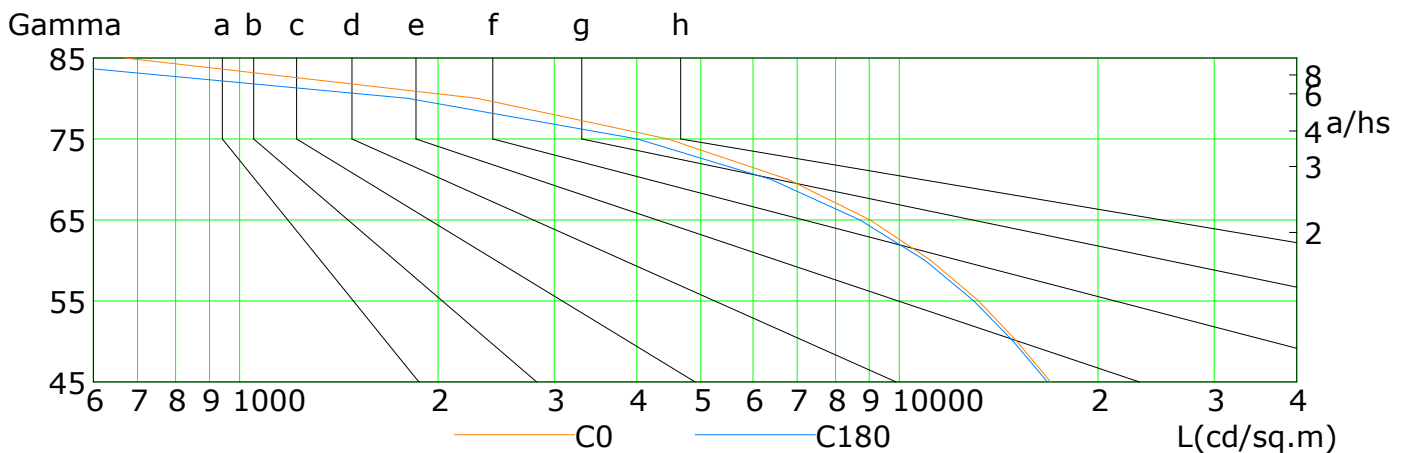
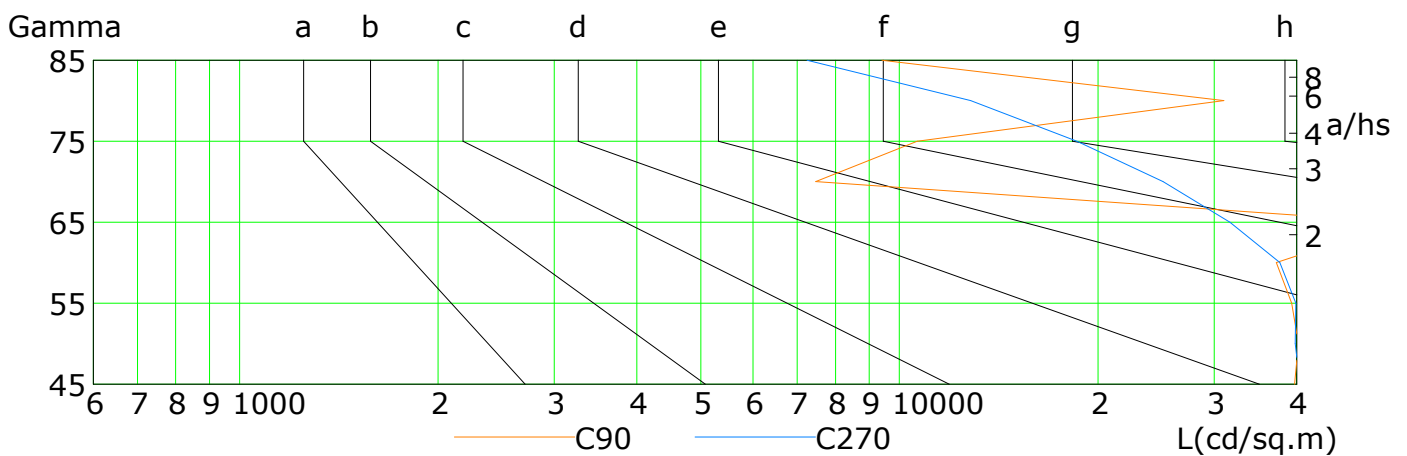
Humidity:

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	16947	15062	13185	11158	9031	6774	4457	2294	670
C90	39733	40261	39326	37278	56995	7466	10645	31012	9410
C180	16769	14874	12964	10931	8711	6378	4007	1797	403
C270	40493	39784	39874	37723	31705	25098	18579	12823	7245

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

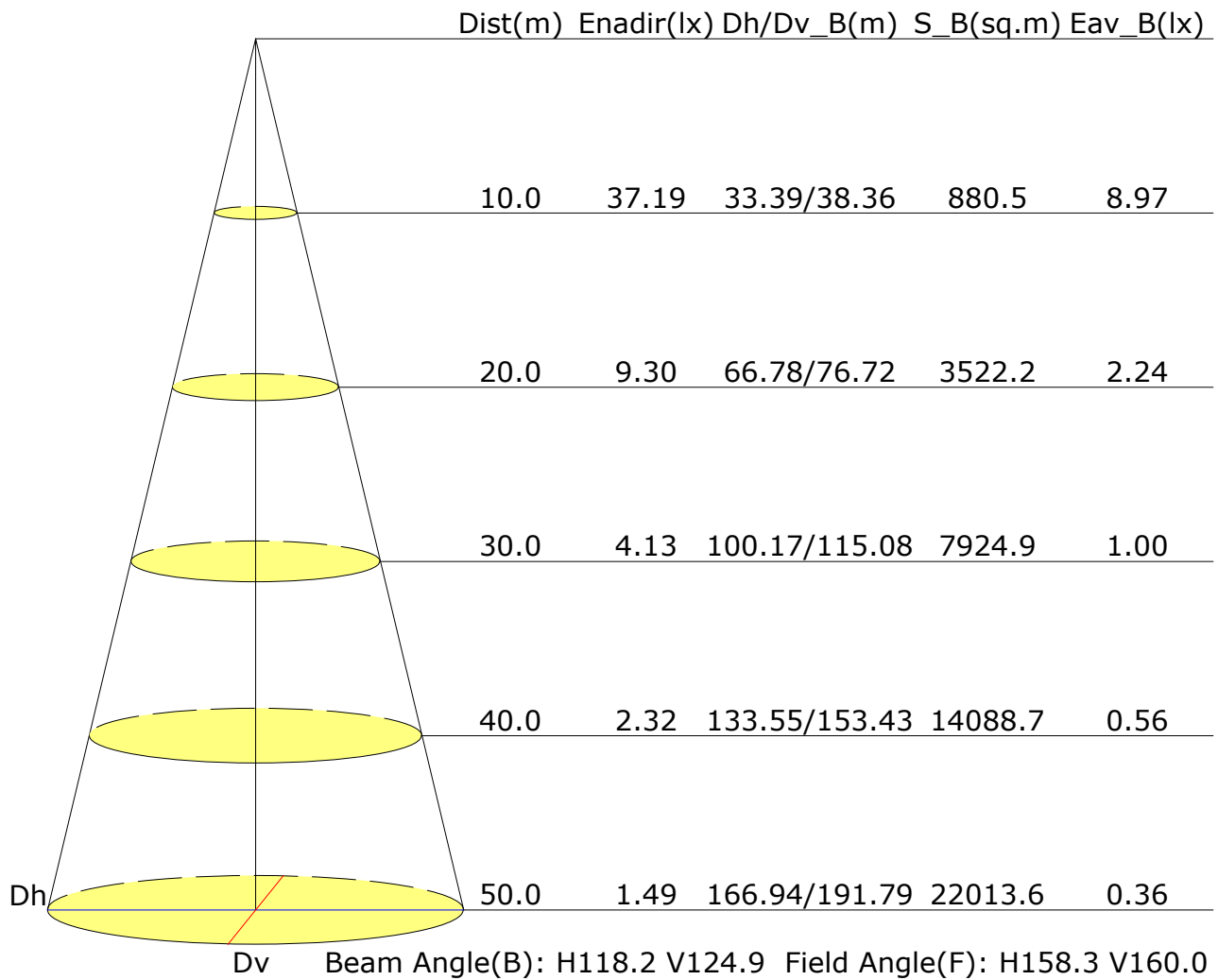
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

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

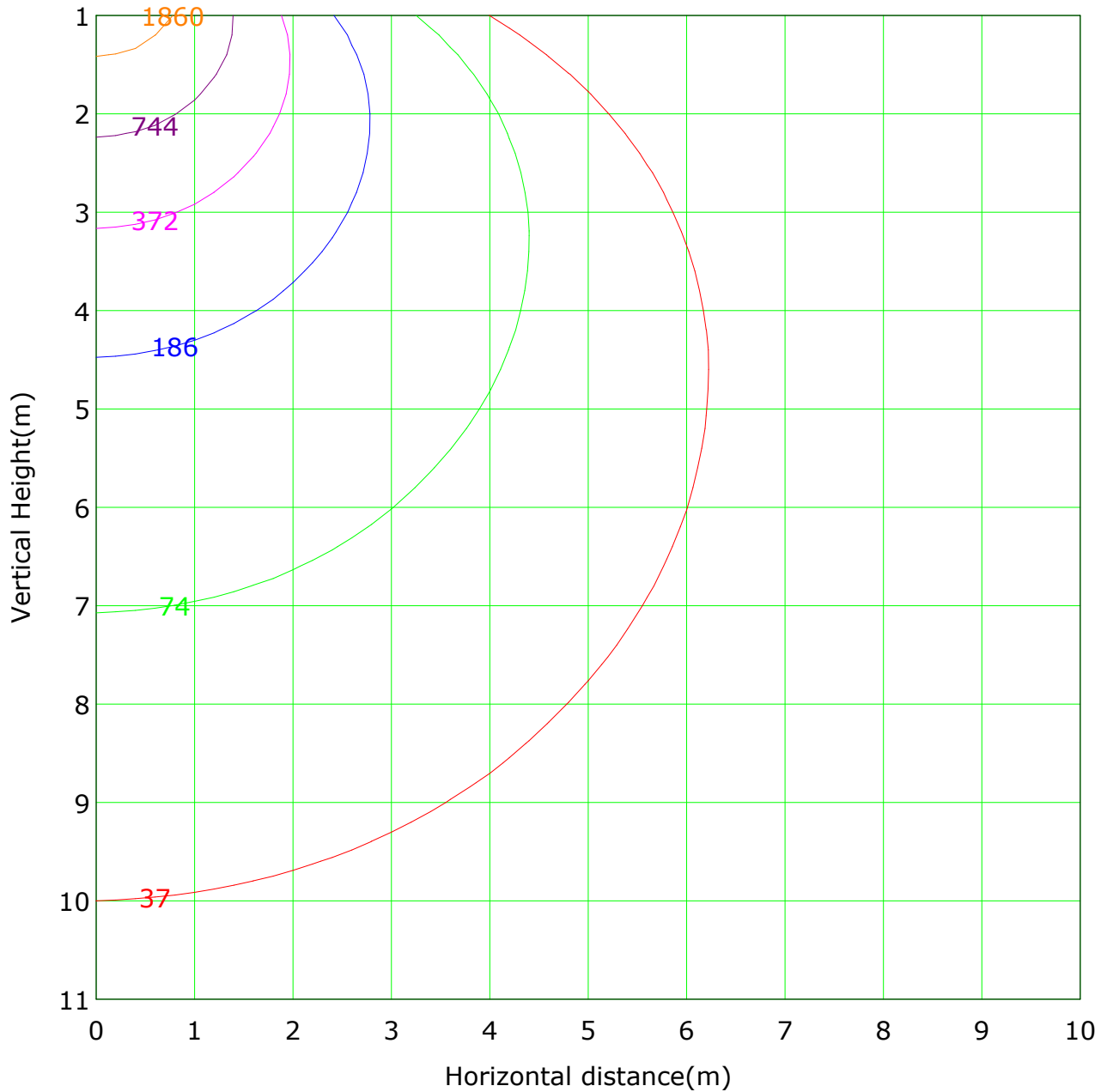
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 3719.3 lx
— (1%): 37.2 lx — (2%): 74.4 lx
— (5%): 186.0 lx — (10%): 371.9 lx
— (20%): 743.9 lx — (50%): 1859.6 lx
— (100%): 3719.3 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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	5379	49.5
FL (0°-30°)	1447	13.3
FM (30°-60°)	2847	26.2
FH (60°-80°)	994	9.1
FVH (80°-90°)	90	0.8
BACK LIGHT	5391	49.6
BL (0°-30°)	1423	13.1
BM (30°-60°)	2871	26.4
BH (60°-80°)	1034	9.5
BVH (80°-90°)	63	0.6
UP LIGHT	108	1.0
UL (90°-100°)	48	0.4
UH (100°-180°)	60	0.6
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U2 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U2 G1

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