

Report No.: 1

Test Time: 29.01.2019 15:41

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 48LED 0,35A 40W 5000K

Lamp Description: LED

Luminous Width (mm): 80

Voltage: 220.5 V

Power: 38.93 W

Luminous Length (mm): 1500

Luminous Height (mm): 70

Current: 0.181 A

Power Factor: 0.973

Photometric Results

CIE Class: Direct

Measurement Flux: 4816.8 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.1, 162.4, 161.3, 161.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.5, 109.4, 109.0, 108.9

Luminaire Efficacy Rating (LER): 123.78

Max. Intensity: 1727.36 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 4816.8 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1713.43 cd

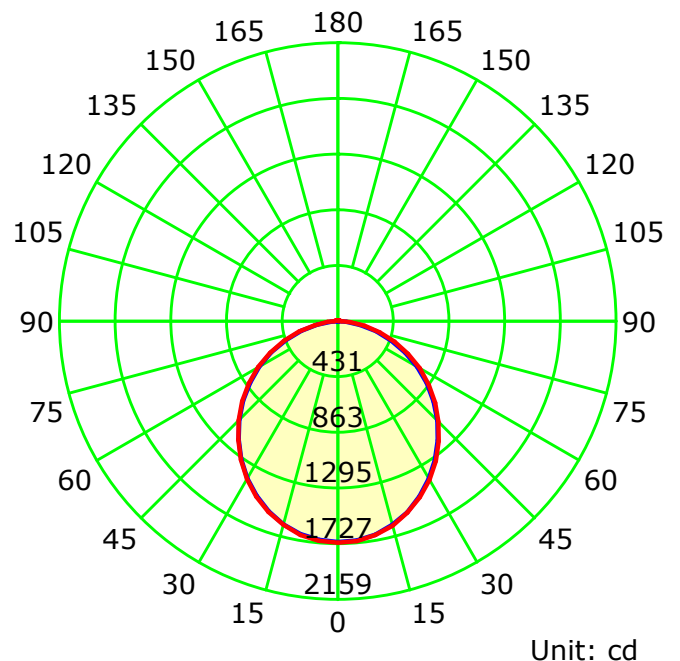
Pos of Max. Intensity: H157.5 V0

S/MH(C90/C270): 1.23

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

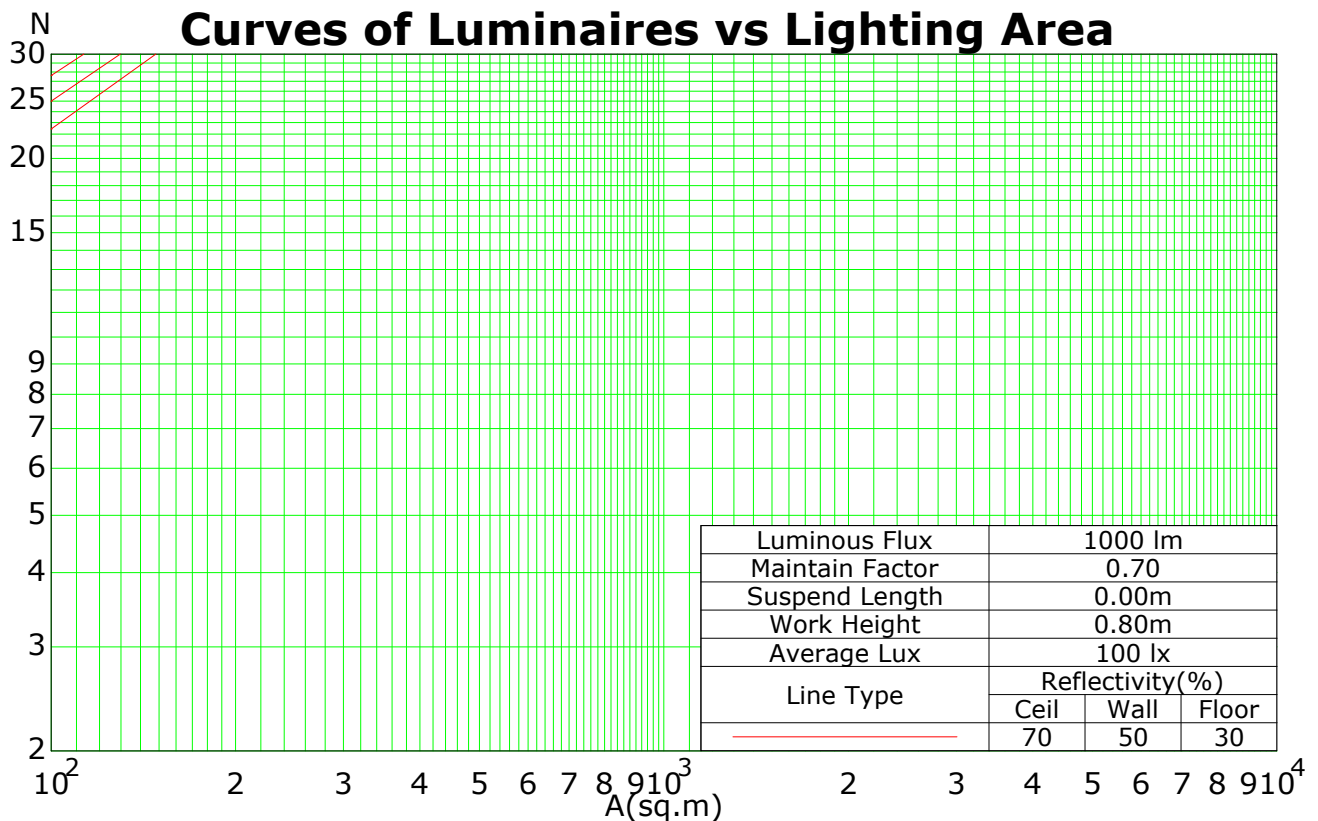
Humidity:

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	110	110	110	105	105	105	101	101	101	99
1	108	104	99	95	105	101	97	94	97	93	90	92	90	87	89	87	85	82
2	98	90	83	78	96	88	82	77	84	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	57	52	61	56	52	49
5	76	63	54	47	73	62	53	47	59	52	46	57	51	45	55	49	45	43
6	70	56	48	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

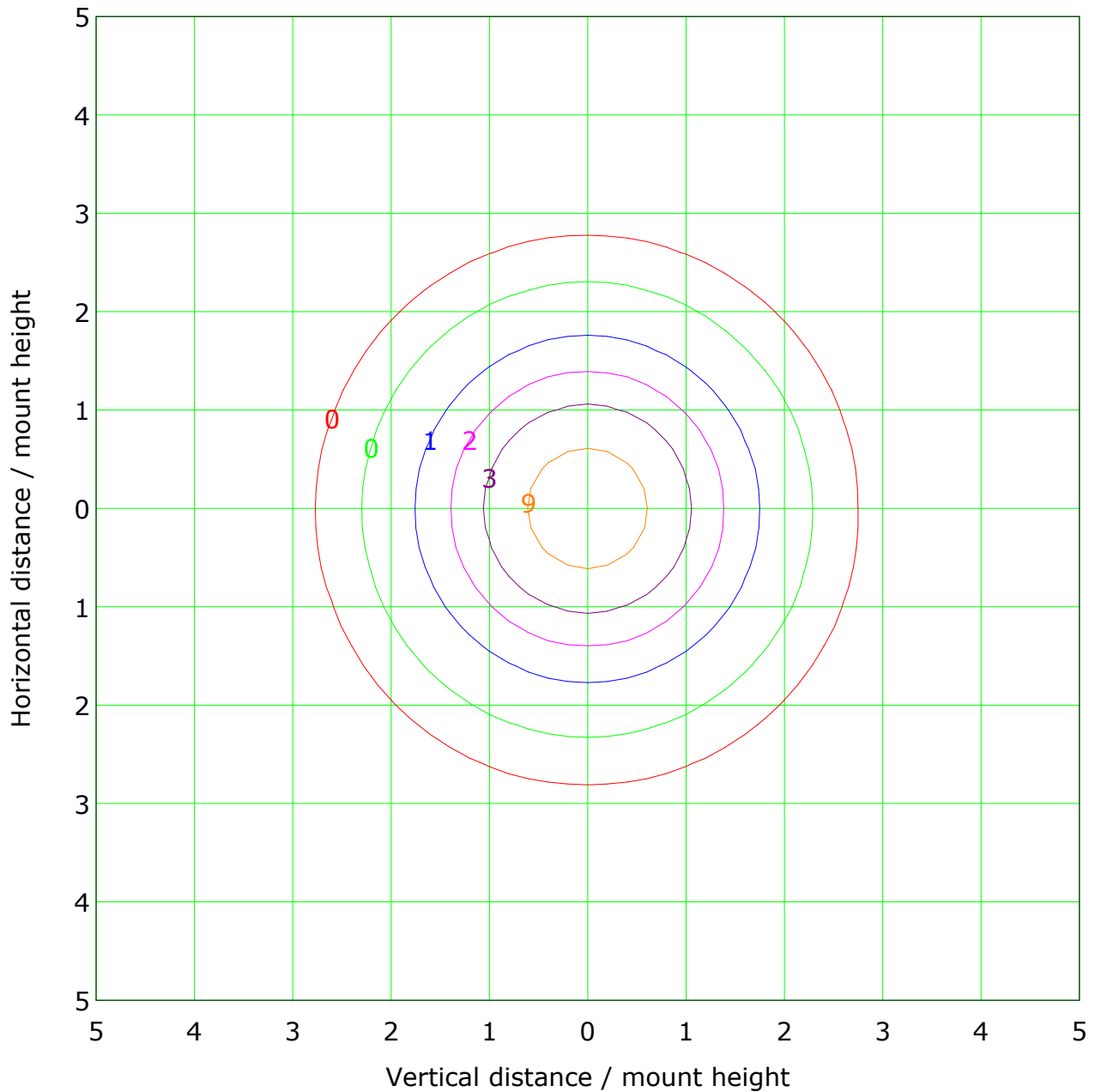
Spacing Criteria (0-180): 1.22
 Spacing Criteria (90-270): 1.23
 Spacing Criteria (Diagonal): 1.35



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 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 17.3 lx

(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.9 lx	(10%): 1.7 lx
(20%): 3.5 lx	(50%): 8.6 lx
(100%): 17.3 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

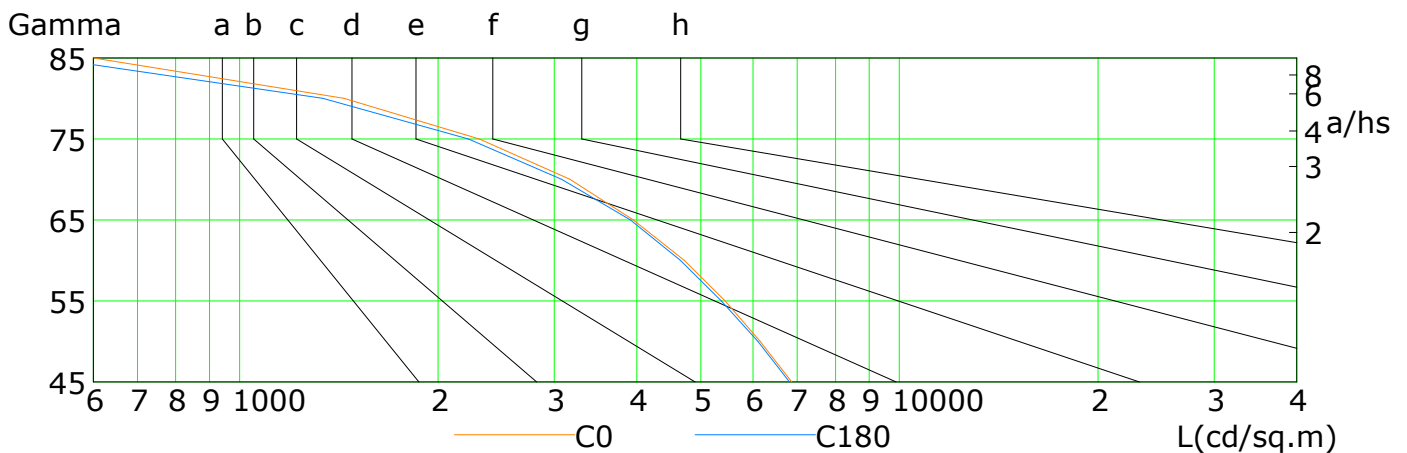
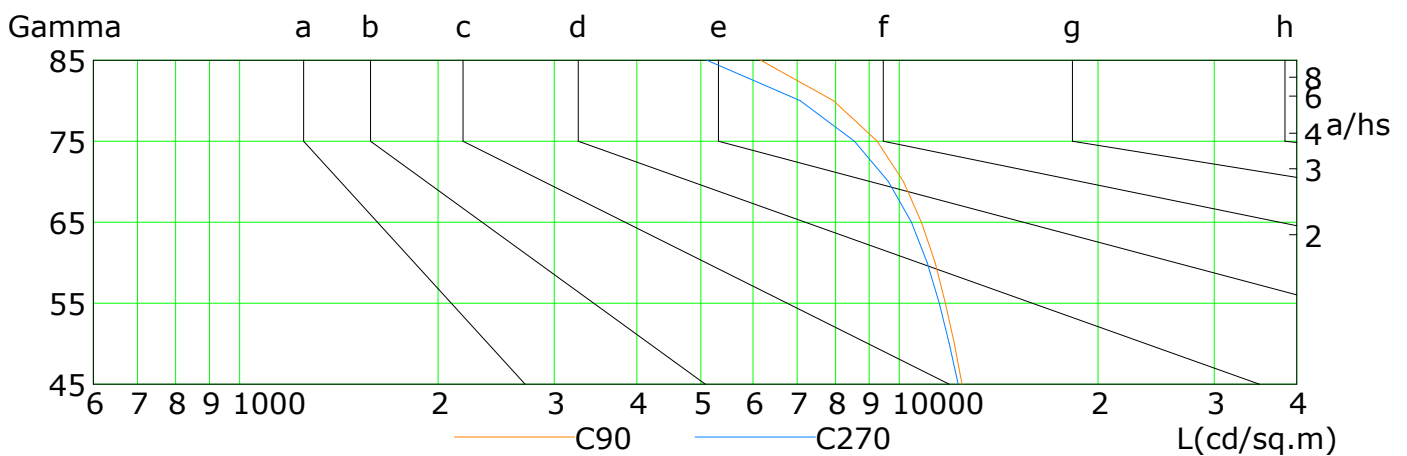
Humidity:

Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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	6868	6152	5443	4719	3951	3169	2309	1439	601
C90	12439	12107	11742	11325	10792	10142	9254	7944	6161
C180	6811	6098	5373	4656	3910	3077	2222	1338	514
C270	12277	11899	11490	11011	10428	9621	8551	7071	5108

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Temperature:

Operator:

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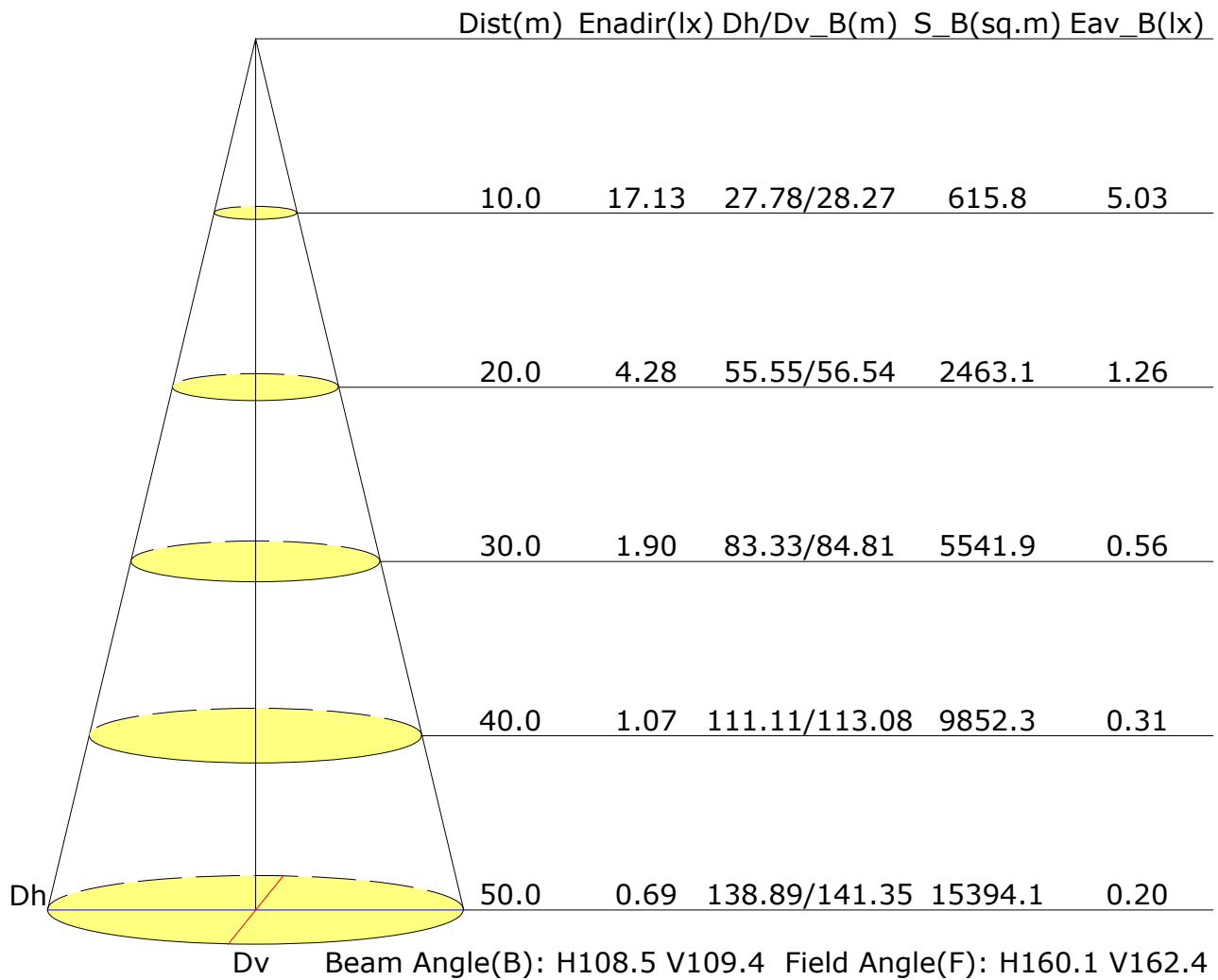
Test Device: LSG-1800B

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

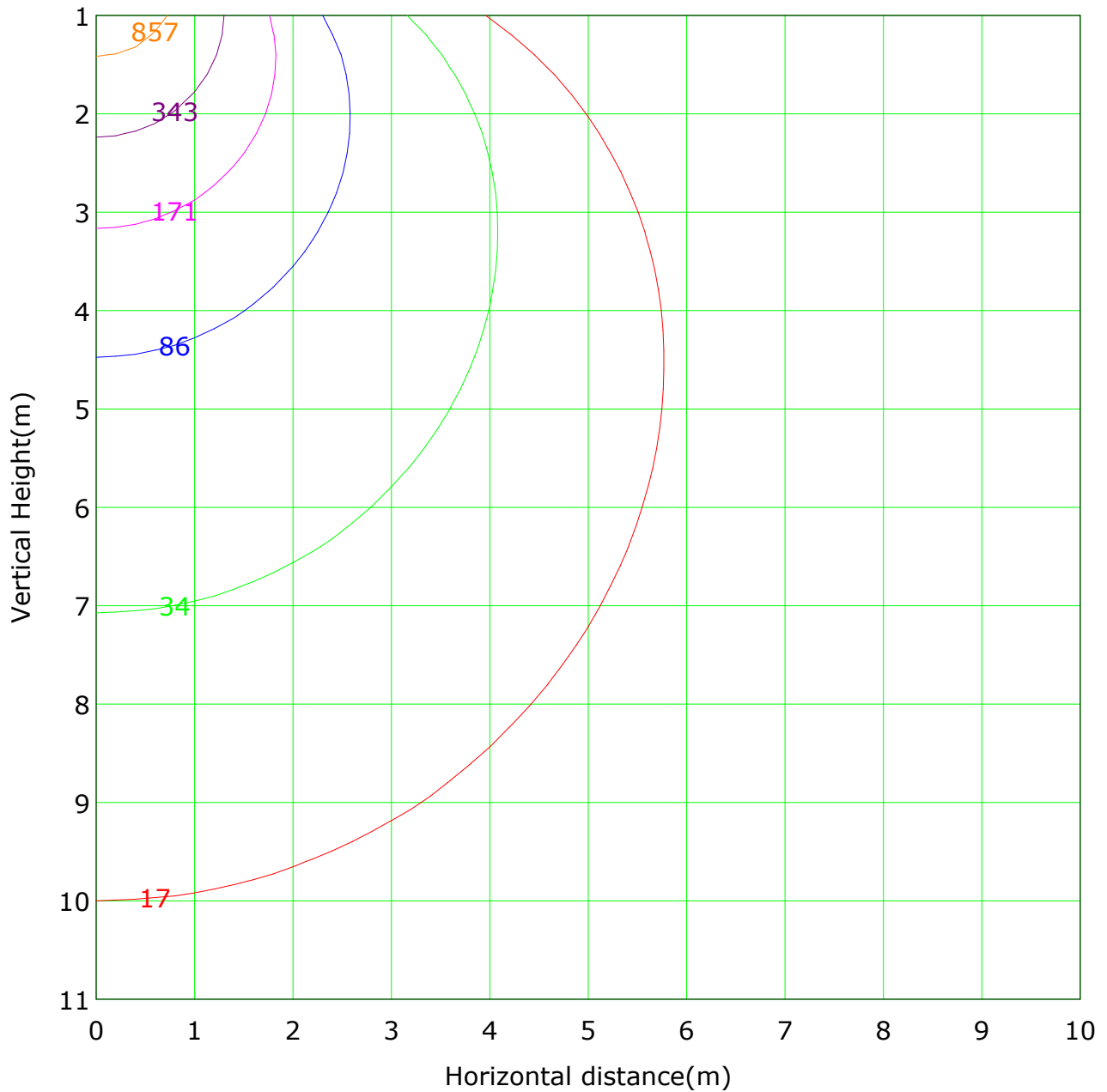
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1713.4 lx
— (1%): 17.1 lx — (2%): 34.3 lx
— (5%): 85.7 lx — (10%): 171.3 lx
— (20%): 342.7 lx — (50%): 856.7 lx
— (100%):1713.4 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	2393	49.7
FL (0°-30°)	660	13.7
FM (30°-60°)	1219	25.3
FH (60°-80°)	463	9.6
FVH (80°-90°)	52	1.1
BACK LIGHT	2359	49.0
BL (0°-30°)	658	13.7
BM (30°-60°)	1207	25.1
BH (60°-80°)	447	9.3
BVH (80°-90°)	47	1.0
UP LIGHT	65	1.4
UL (90°-100°)	20	0.4
UH (100°-180°)	45	0.9
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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