

Report No.: 1

Test Time: 31.01.2019 11:52

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 595 18LED 0,3A 36W 5000K

Lamp Description: LED

Luminous Length (mm): 595 mm

Luminous Height (mm): 35 mm

Current: 0.158 A

Power Factor: 0.984

Number of Lamps: 1

Luminous Width (mm): 595 mm

Voltage: 231.8 V

Power: 36.11 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4734.4 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): 131.16

Max. Intensity: 1628.79 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 4734.4 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1628.78 cd

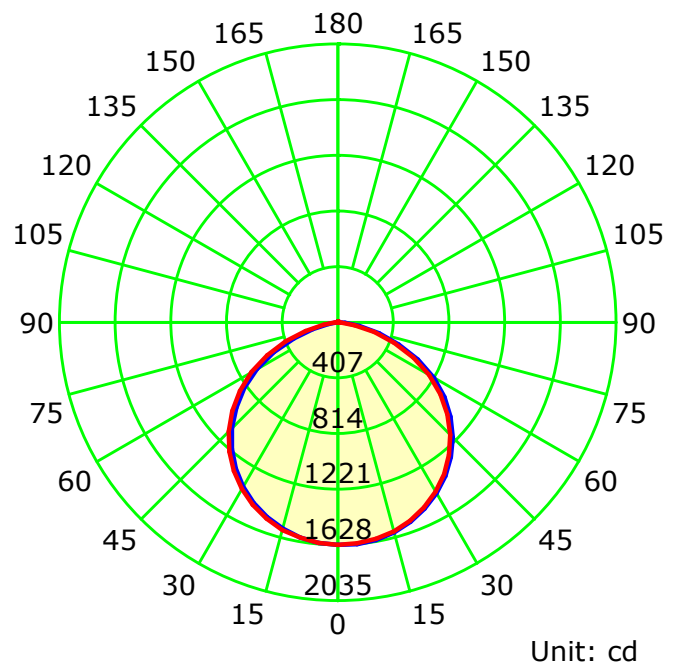
Pos of Max. Intensity: H0 V0

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

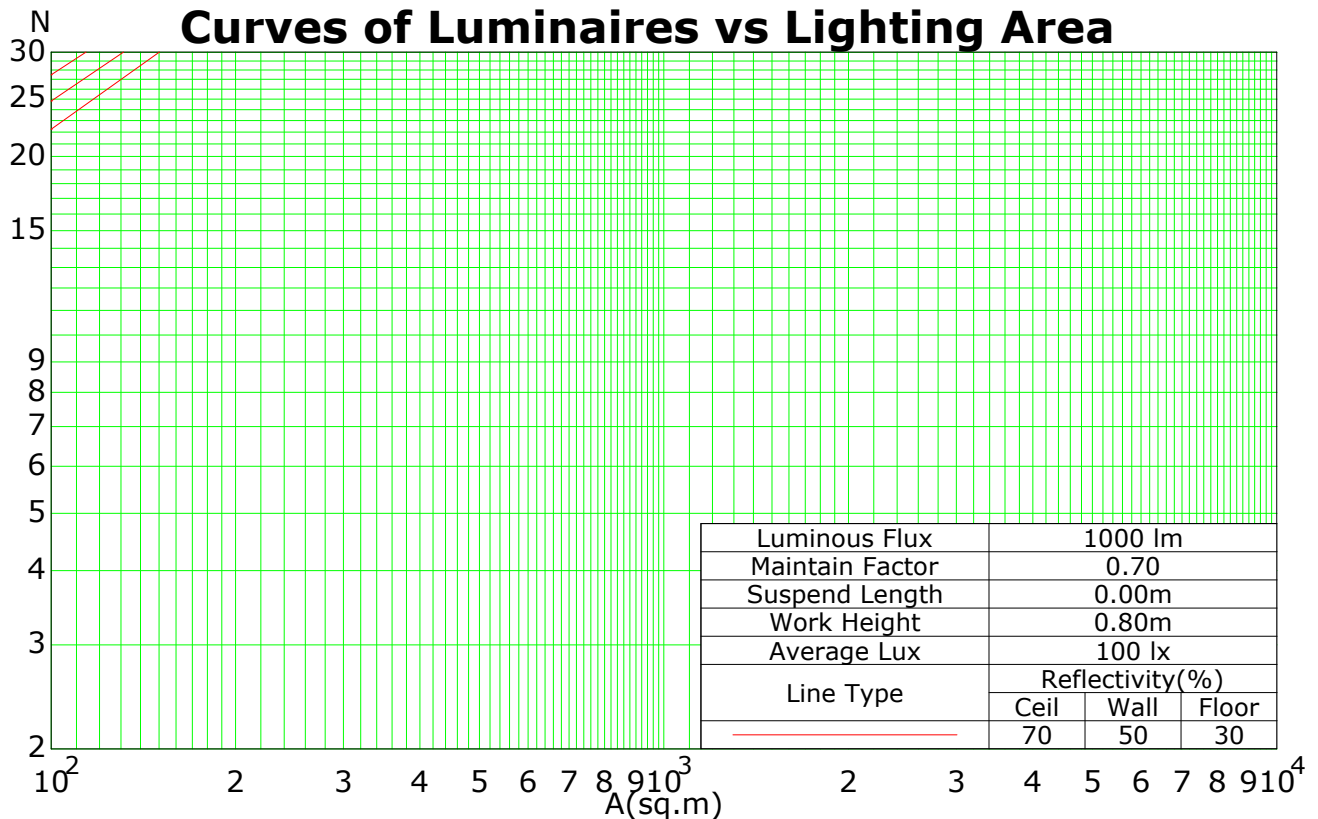
Humidity:

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

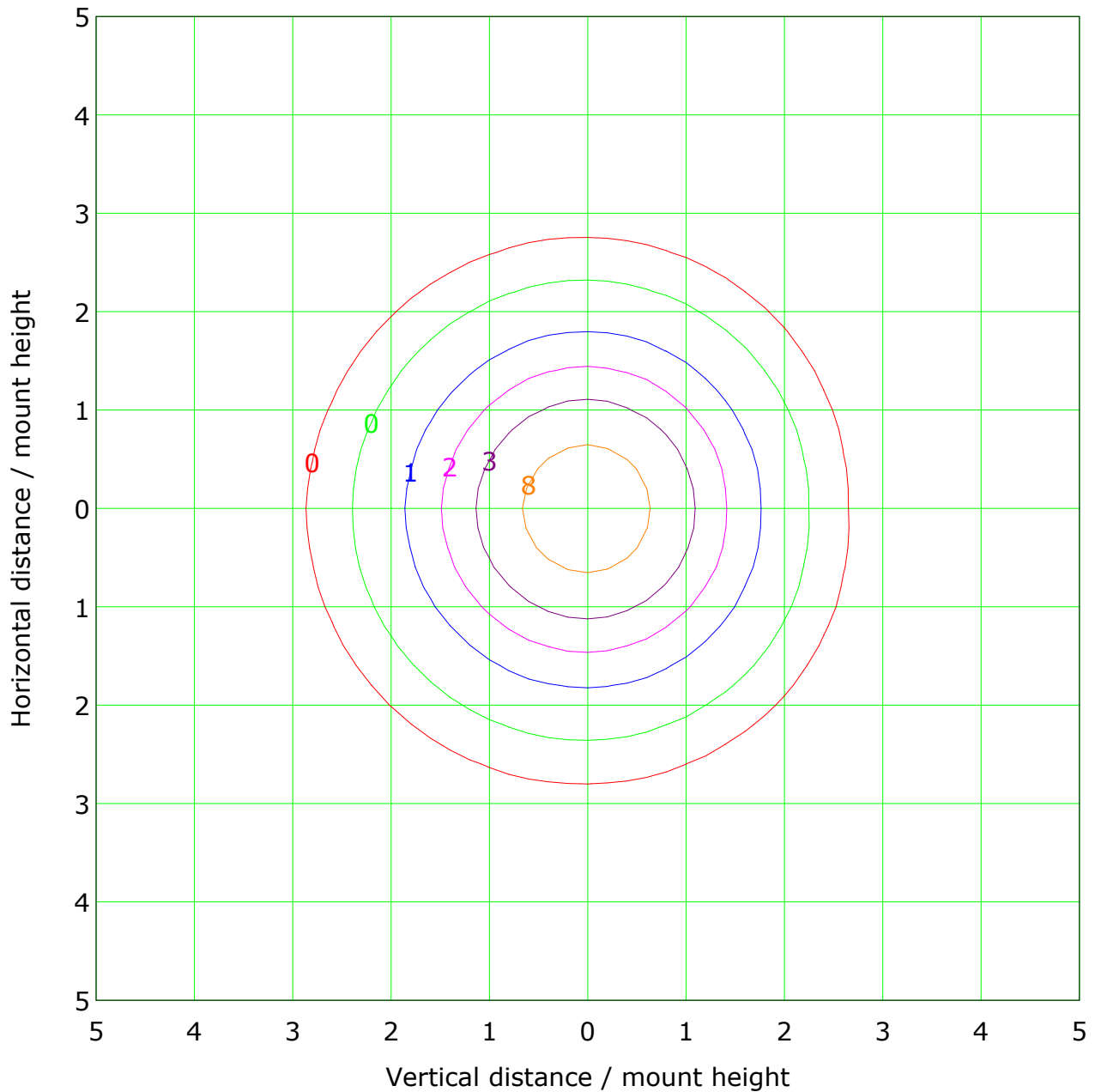
Spacing Criteria (0-180): 1.29
 Spacing Criteria (90-270): 1.29
 Spacing Criteria (Diagonal): 1.41



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 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 16.3 lx

(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.6 lx
(20%): 3.3 lx	(50%): 8.1 lx
(100%): 16.3 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

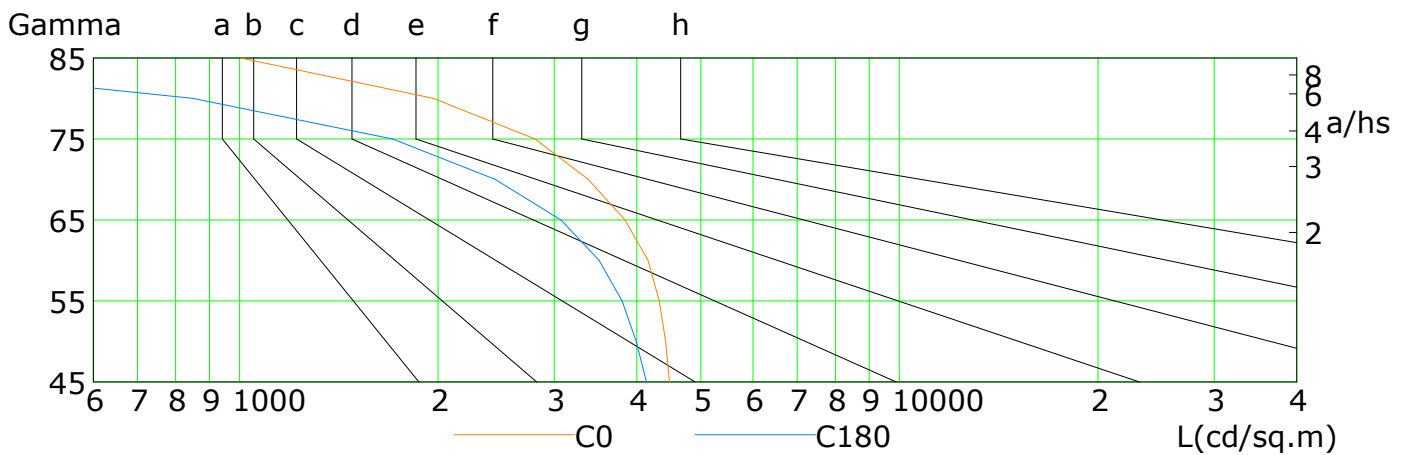
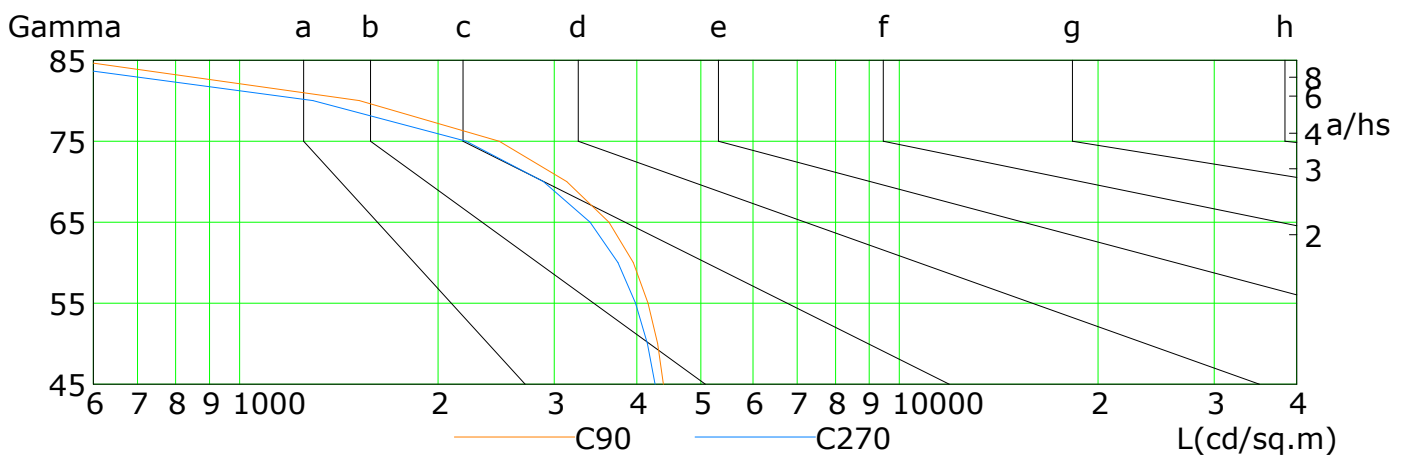
Humidity:

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	4485	4423	4325	4161	3838	3376	2803	1966	1003
C90	4391	4300	4158	3951	3632	3132	2473	1518	559
C180	4136	3989	3798	3506	3068	2438	1706	849	218
C270	4263	4151	3984	3743	3398	2887	2205	1291	453

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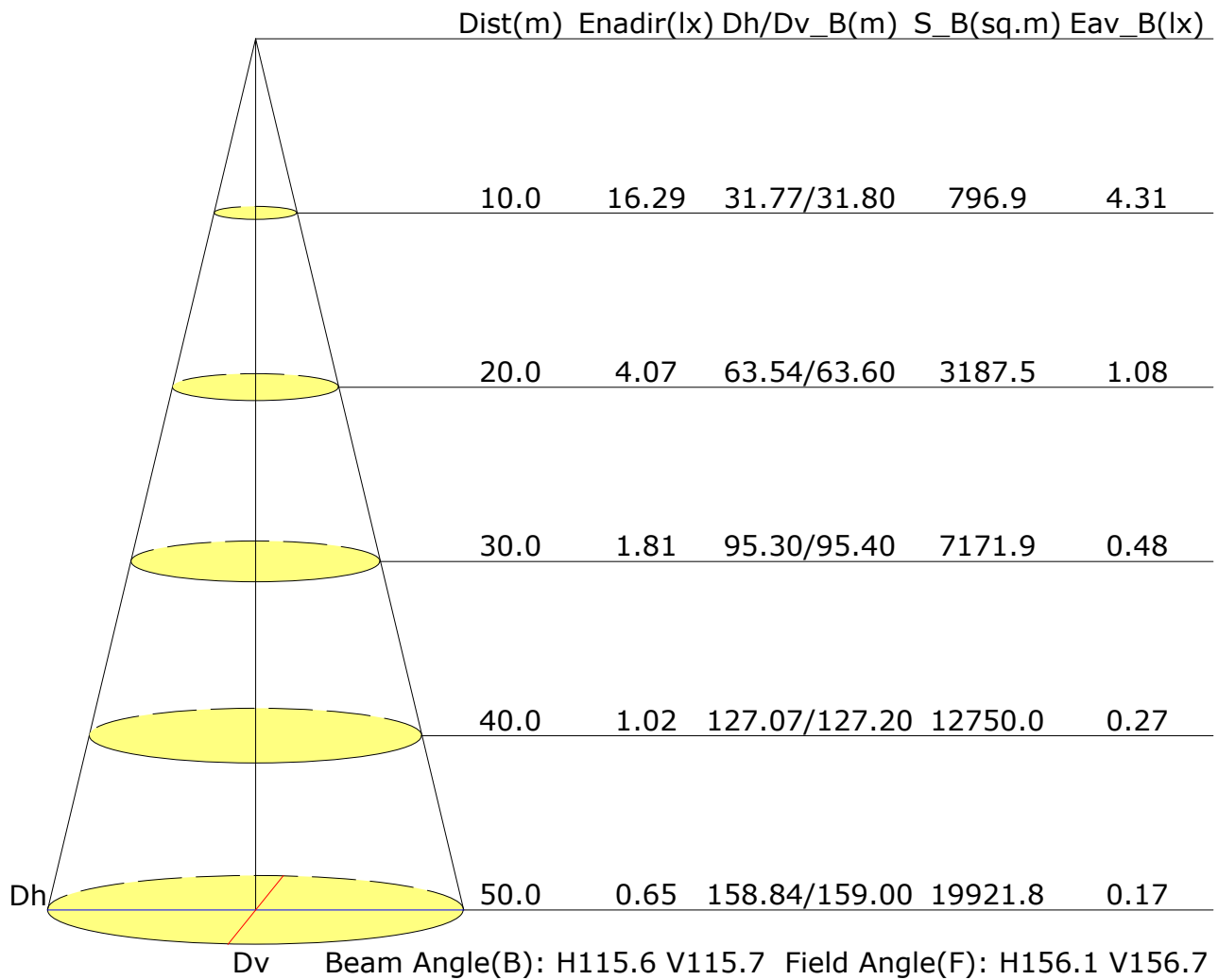
Test Device: LSG-1800B

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

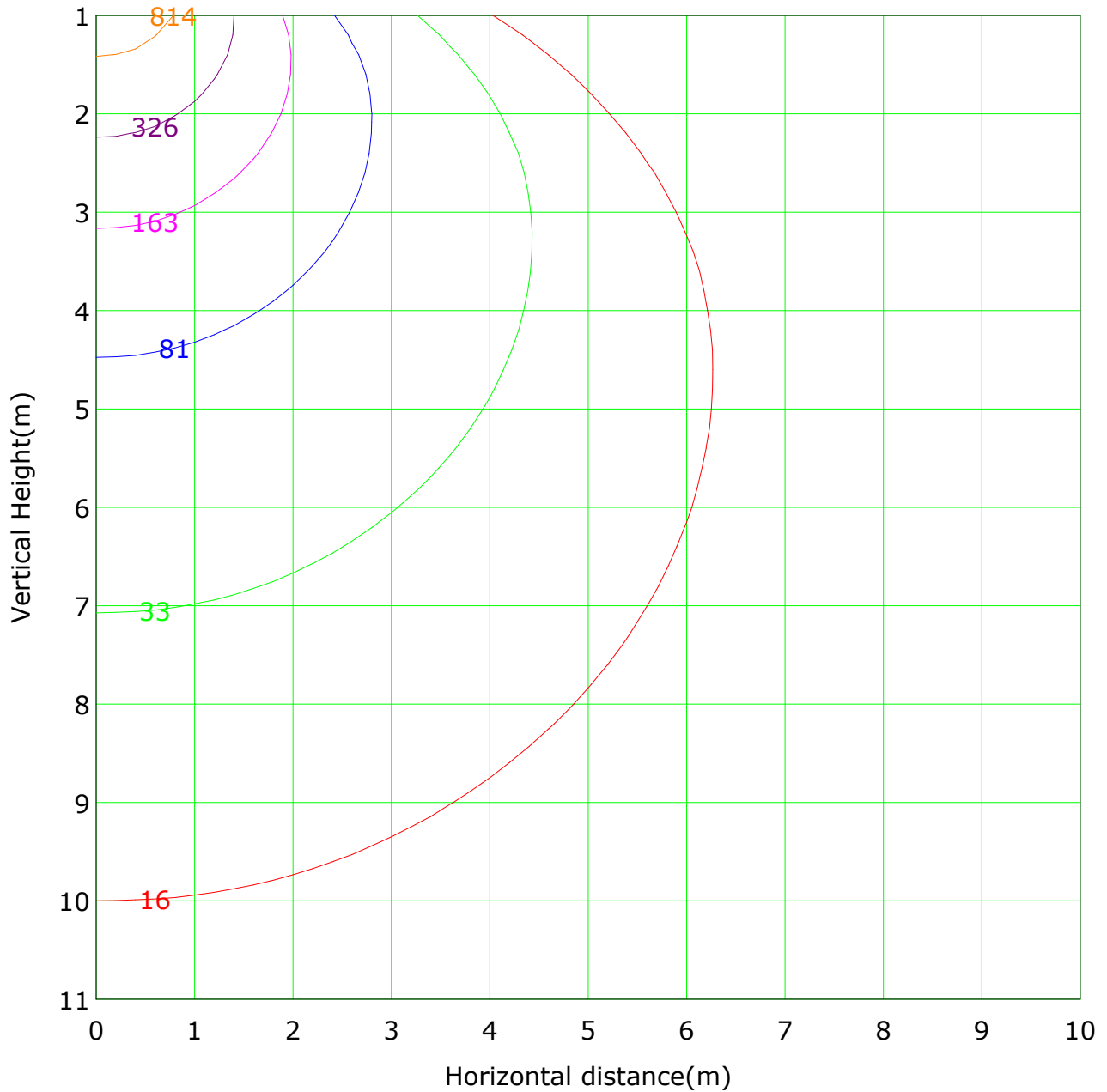
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1628.8 lx
— (1%): 16.3 lx — (2%): 32.6 lx
— (5%): 81.4 lx — (10%): 162.9 lx
— (20%): 325.8 lx — (50%): 814.4 lx
— (100%):1628.8 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	2383	50.3
FL (0°-30°)	644	13.6
FM (30°-60°)	1272	26.9
FH (60°-80°)	441	9.3
FVH (80°-90°)	25	0.5
BACK LIGHT	2324	49.1
BL (0°-30°)	639	13.5
BM (30°-60°)	1245	26.3
BH (60°-80°)	417	8.8
BVH (80°-90°)	23	0.5
UP LIGHT	28	0.6
UL (90°-100°)	4	0.1
UH (100°-180°)	24	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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