

Report No.:

Test Time: 13.11.2018 11:44

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 80 105LED 0,35A 46W 5000K 150 degrees F16048_LINNEA-UP

Lamp Description: LED

Luminous Width (mm): 80

Voltage: 220.9 V

Power: 46.31 W

Luminous Length (mm): 1500

Luminous Height (mm): 75

Current: 0.213 A

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Measurement Flux: 6549.7 lm

Downward Ratio: 96%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.0, 176.4, 183.7, 184.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 102.0, 149.6, 155.8, 157.2

Luminaire Efficacy Rating (LER): 141.48

Max. Intensity: 2179.4 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 6549.7 lm

Efficiency: 100%

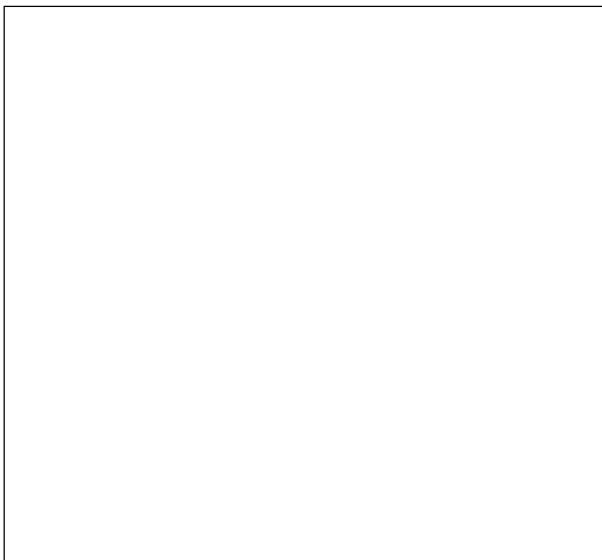
Upward Ratio: 4%

Central Intensity: 1418.6 cd

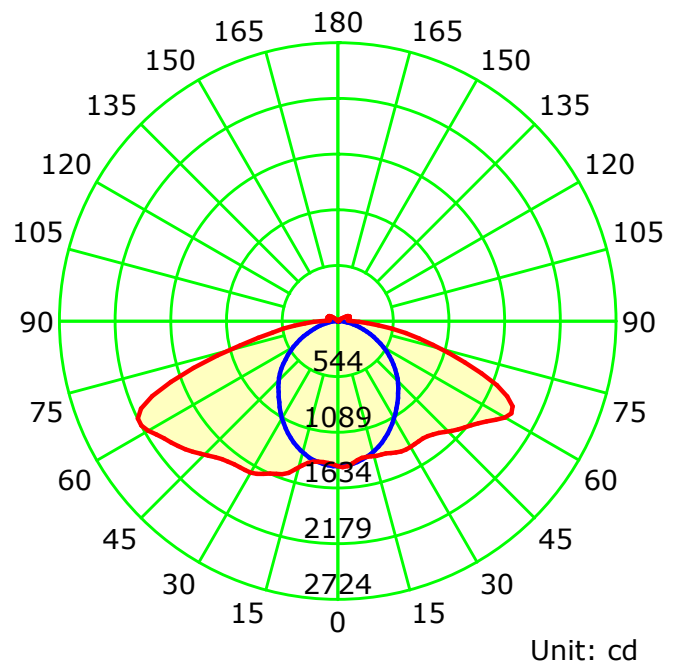
Pos of Max. Intensity: H270 V62

S/MH(C90/C270): 1.71

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 (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

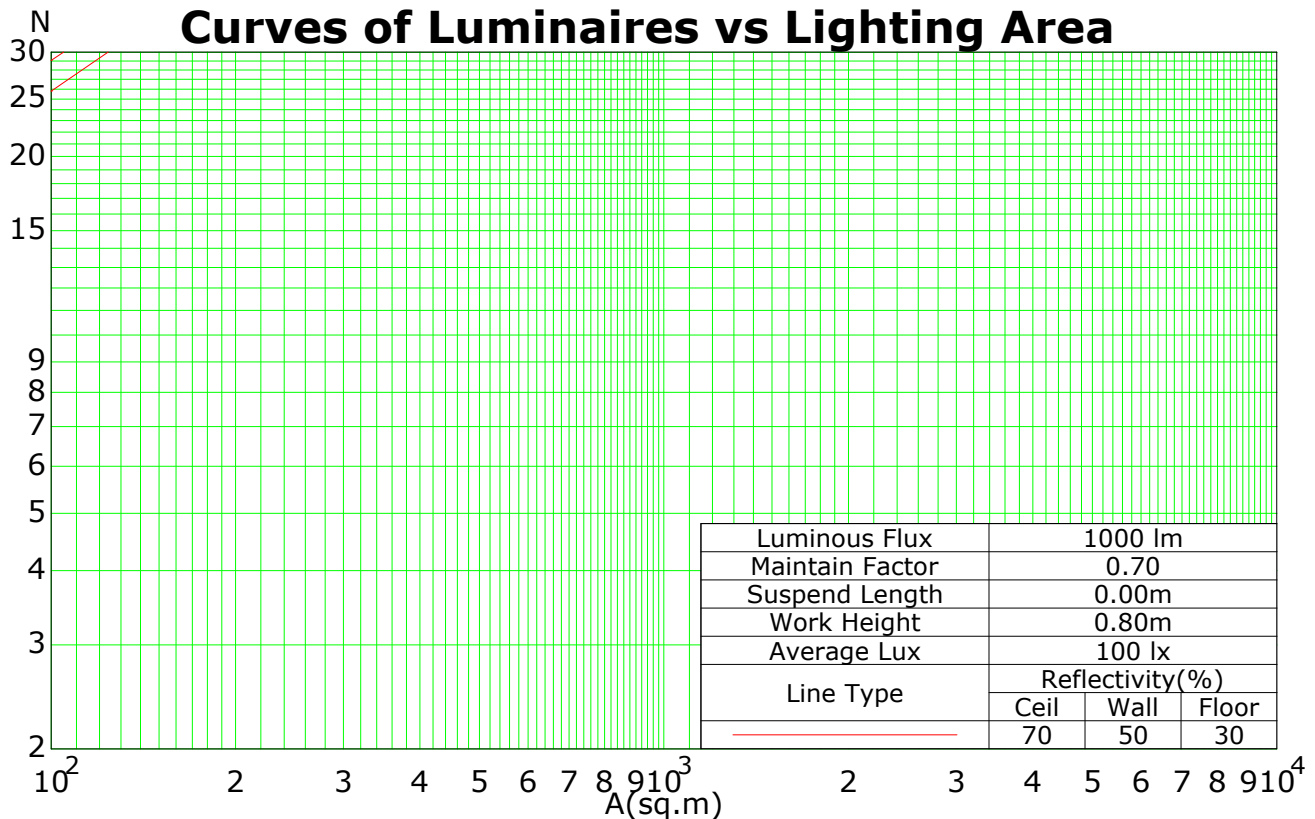
Humidity:

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	103	103	103	98	98	98	96
1	105	99	93	89	101	96	91	87	91	87	83	86	83	80	82	79	76	74
2	93	84	75	68	90	81	74	67	77	70	65	73	67	63	69	64	61	58
3	84	72	62	55	81	70	61	54	66	58	52	62	56	51	59	54	49	47
4	76	62	52	45	73	61	51	44	57	49	43	54	47	42	52	46	41	38
5	69	55	45	37	67	54	44	37	51	43	36	48	41	35	46	40	34	32
6	64	49	39	32	61	48	38	32	45	37	31	43	36	30	41	35	30	27
7	59	44	34	28	57	43	34	27	41	33	27	39	32	26	37	31	26	24
8	55	40	31	24	53	39	30	24	37	29	24	36	28	23	34	28	23	21
9	51	36	28	22	49	36	27	21	34	26	21	33	26	21	31	25	20	18
10	48	33	25	19	46	33	25	19	31	24	19	30	23	19	29	23	18	16

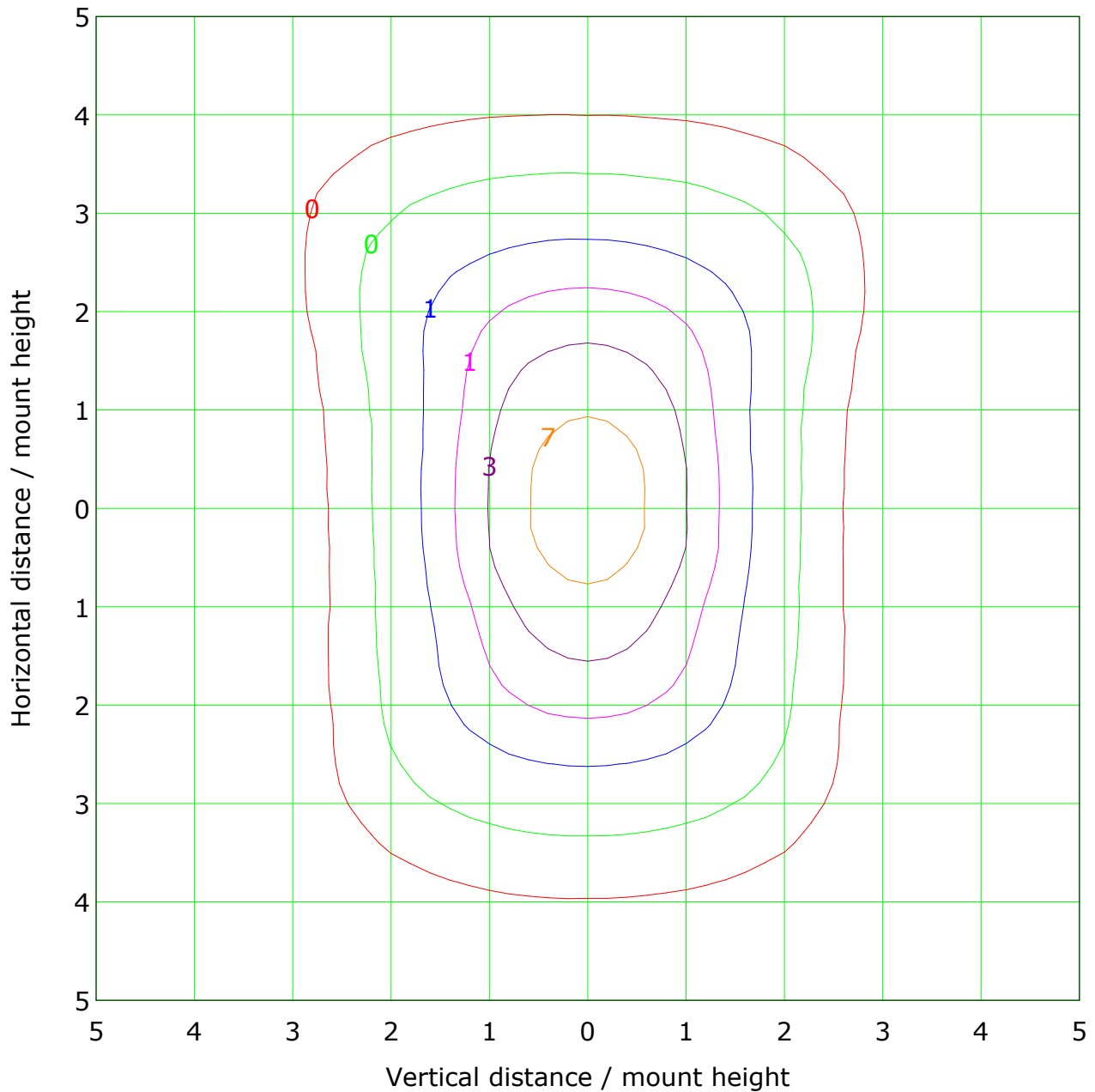
Spacing Criteria (0-180): 1.16
 Spacing Criteria (90-270): 1.71
 Spacing Criteria (Diagonal): 1.56



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 Test Device: LSG-1800B
 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 14.3 lx

(1%): 0.1 lx	(2%): 0.3 lx
(5%): 0.7 lx	(10%): 1.4 lx
(20%): 2.9 lx	(50%): 7.2 lx
(100%): 14.3 lx	

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

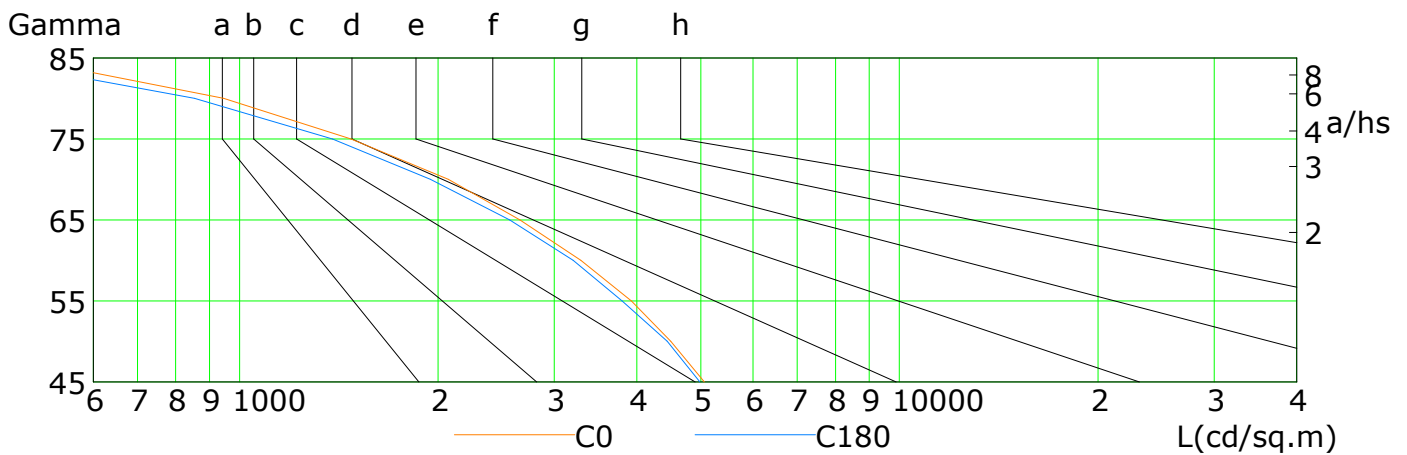
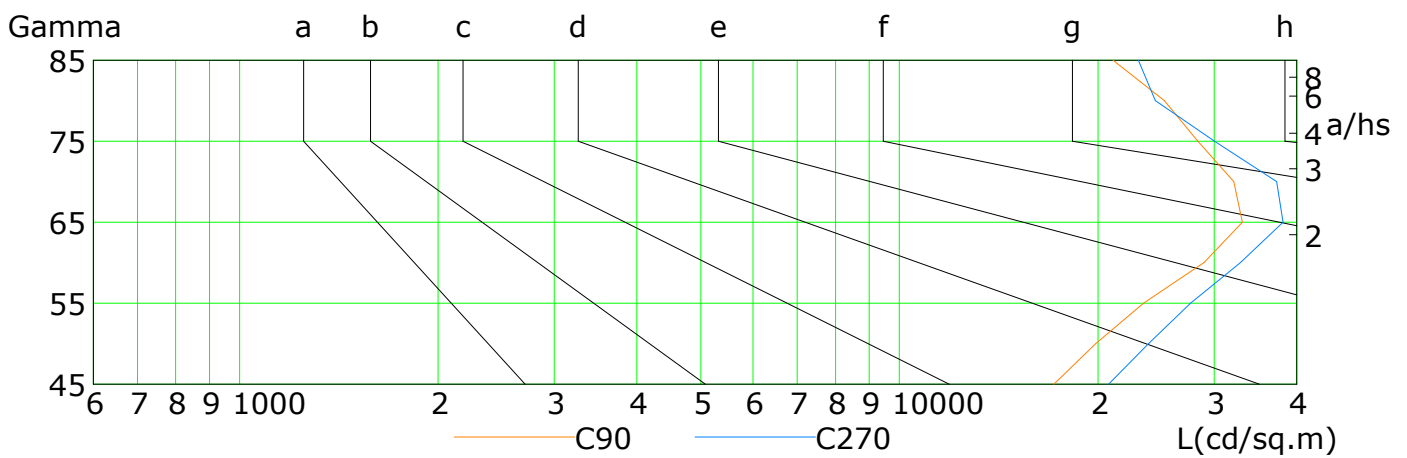
Humidity:

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	5060	4503	3926	3290	2660	2071	1476	946	463
C90	17142	19845	23445	28961	33114	32112	28335	25210	21072
C180	4983	4446	3800	3202	2567	1945	1383	855	397
C270	20756	23875	27612	32889	38162	37283	30043	24421	23030

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Test Type: TYPE C

Temperature:

Operator:

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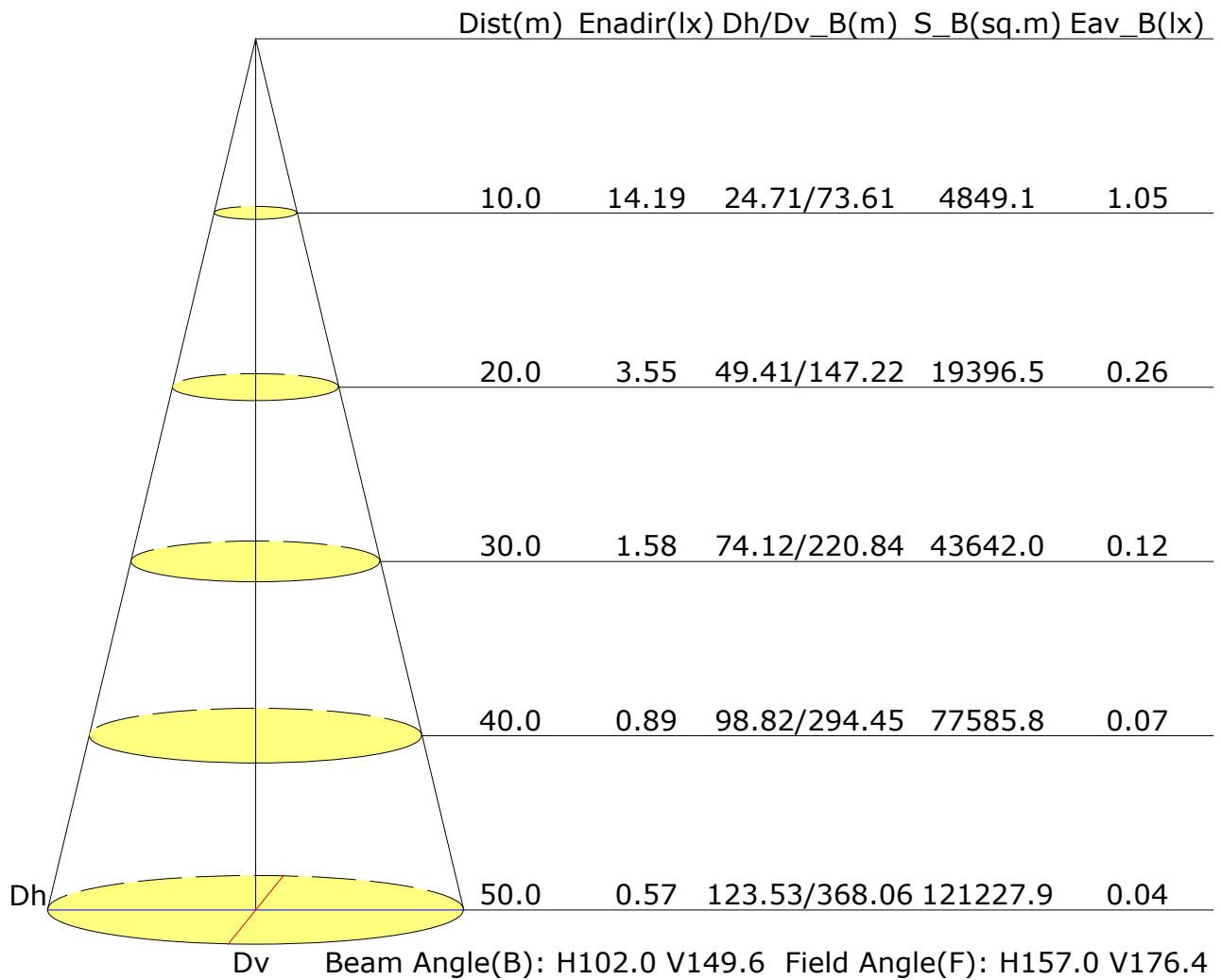
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

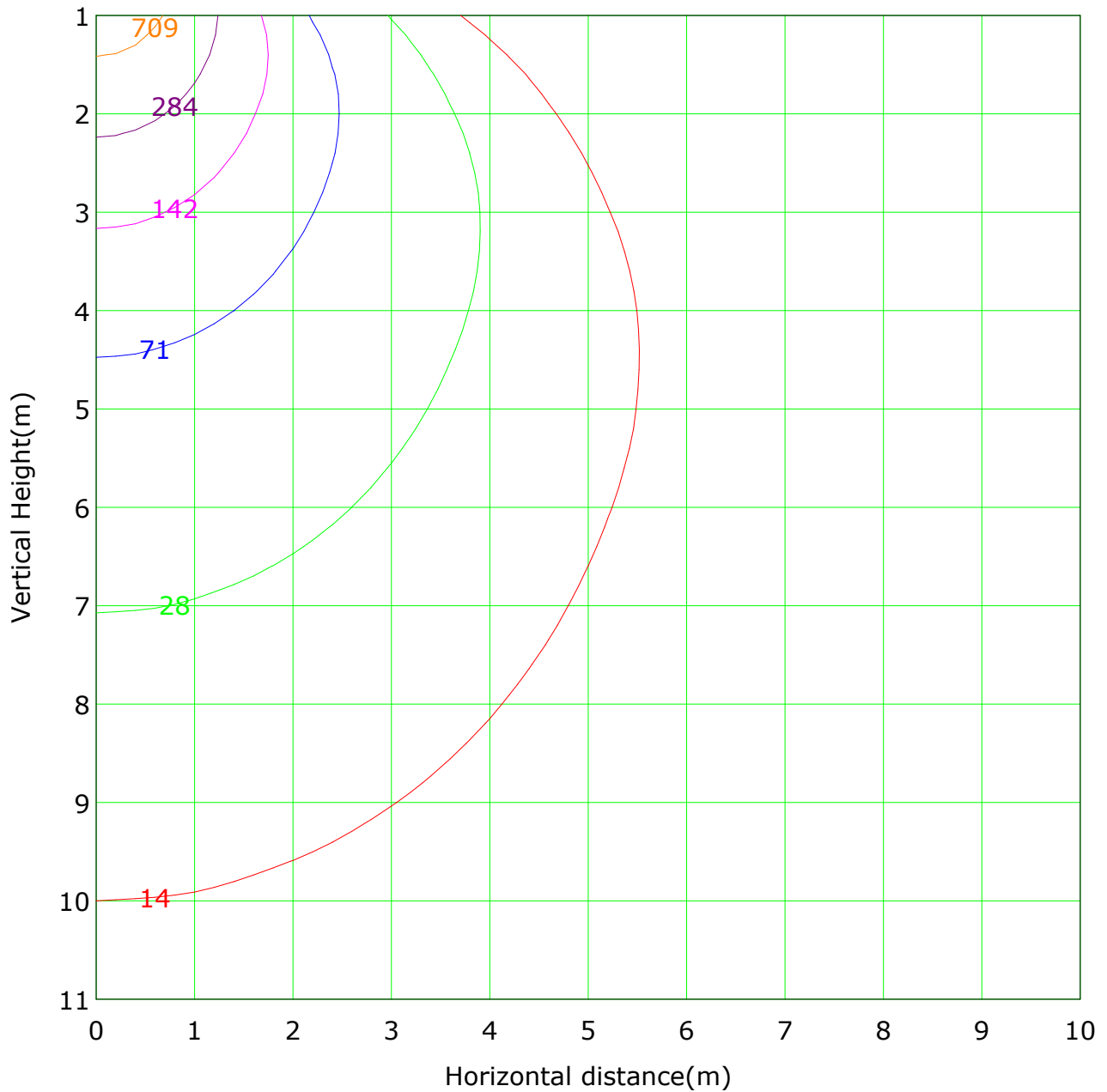
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1418.6 lx
— (1%): 14.2 lx — (2%): 28.4 lx
— (5%): 70.9 lx — (10%): 141.9 lx
— (20%): 283.7 lx — (50%): 709.3 lx
— (100%):1418.6 lx

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

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	2916	44.5
FL (0°-30°)	559	8.5
FM (30°-60°)	1324	20.2
FH (60°-80°)	883	13.5
FVH (80°-90°)	150	2.3
BACK LIGHT	3339	51.0
BL (0°-30°)	591	9.0
BM (30°-60°)	1520	23.2
BH (60°-80°)	1045	15.9
BVH (80°-90°)	184	2.8
UP LIGHT	294	4.5
UL (90°-100°)	101	1.5
UH (100°-180°)	194	3.0
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U5 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U5 G1

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