

Report No.: 1

Test Time: 13.11.2018 13:51

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 80 105LED 0,35A 46W 5000K 90x30 degrees Linea 15756 O

Lamp Description: LED

Luminous Length (mm): 1500

Luminous Width (mm): 80

Luminous Height (mm): 75

Voltage: 221.8 V

Current: 0.212 A

Power: 46.50 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 6440.9 lm

Measurement Flux: 6440.9 lm

Efficiency: 100%

Downward Ratio: 97%

Upward Ratio: 3%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 138.2, 115.6, 116.7, 116.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 86.9, 37.5, 47.5, 48.0

Luminaire Efficacy Rating (LER): 138.56

Central Intensity: 5037.77 cd

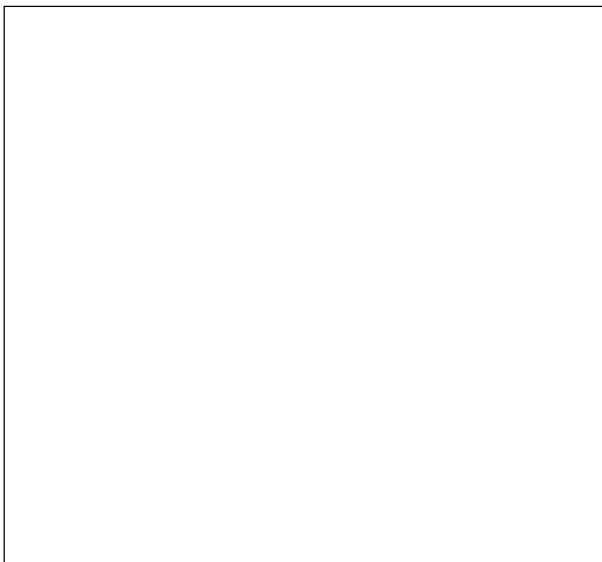
Max. Intensity: 5078.36 cd

Pos of Max. Intensity: H157.5 V0

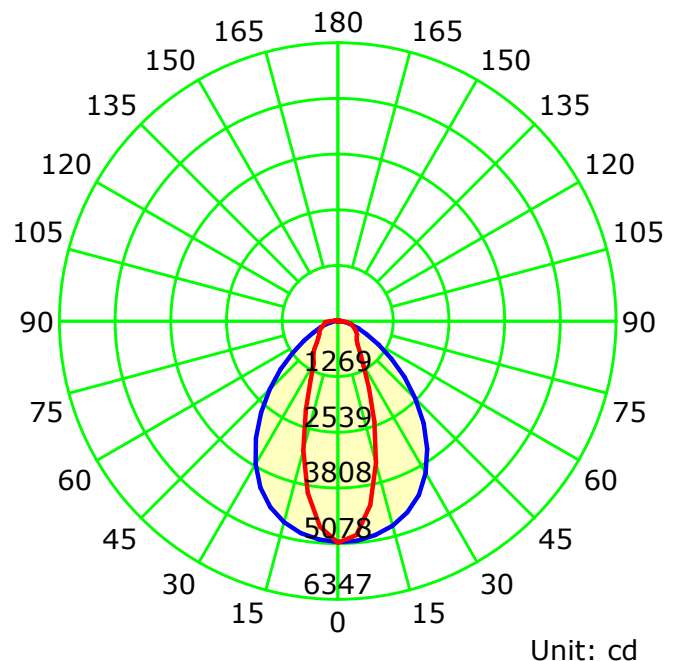
S/MH(C0/C180): 1.16

S/MH(C90/C270): 0.60

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:5.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.654 m

Temperature:

Humidity:

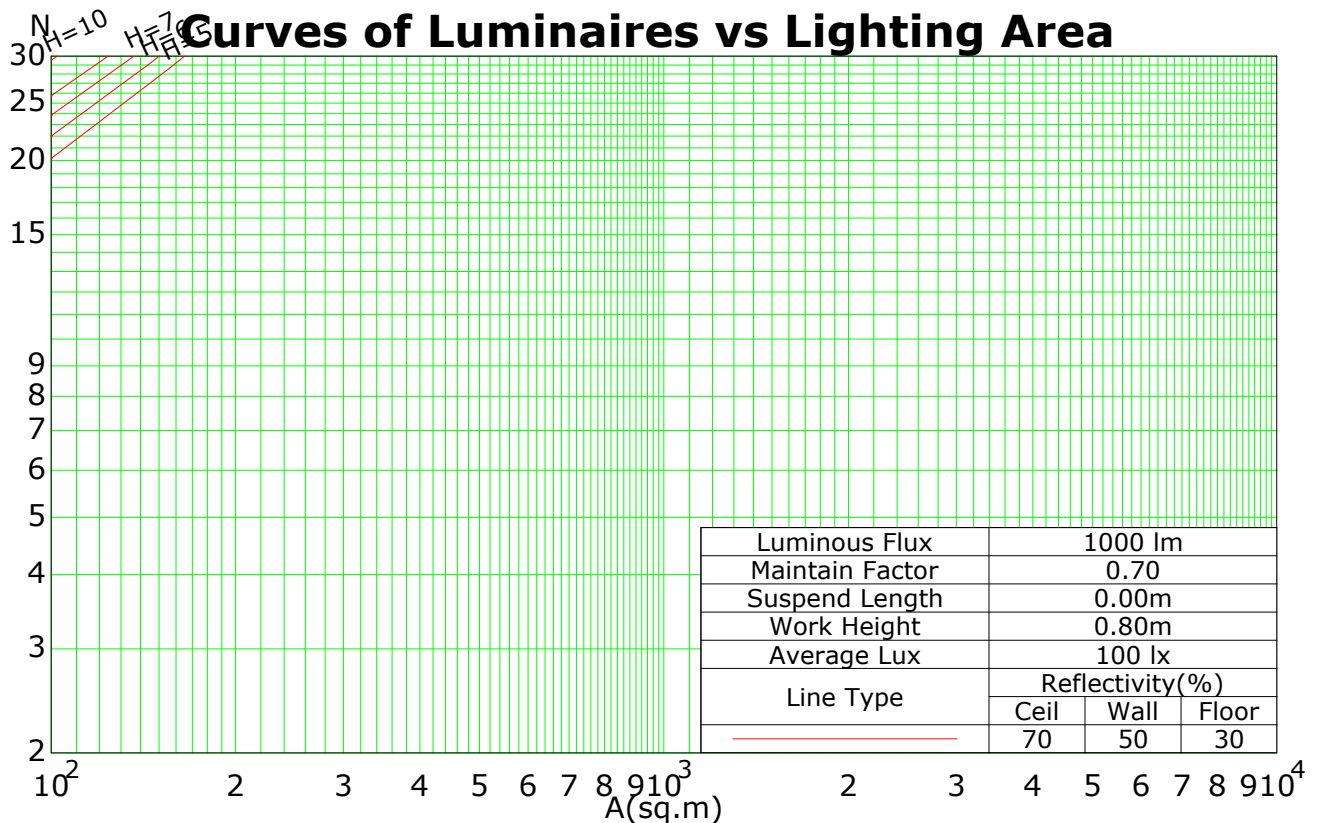
Operator:

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	110	110	110	104	104	104	99	99	99	97
1	109	105	101	97	106	102	99	95	98	95	92	93	91	89	89	87	86	83
2	101	93	87	82	98	91	86	81	87	83	79	84	80	77	81	77	75	72
3	93	84	77	71	91	82	76	70	79	74	69	76	71	67	73	69	66	64
4	87	76	69	63	84	75	68	62	72	66	61	70	64	60	67	63	59	57
5	81	70	62	56	79	68	61	56	66	60	55	64	58	54	62	57	53	51
6	76	64	56	51	74	63	56	50	61	54	50	59	53	49	57	52	48	46
7	71	59	51	46	69	58	51	46	57	50	45	55	49	45	54	48	44	43
8	67	55	47	42	65	54	47	42	53	46	42	51	46	41	50	45	41	39
9	63	51	44	39	62	51	44	39	49	43	39	48	42	38	47	42	38	36
10	60	48	41	36	59	47	41	36	46	40	36	45	40	36	44	39	35	34

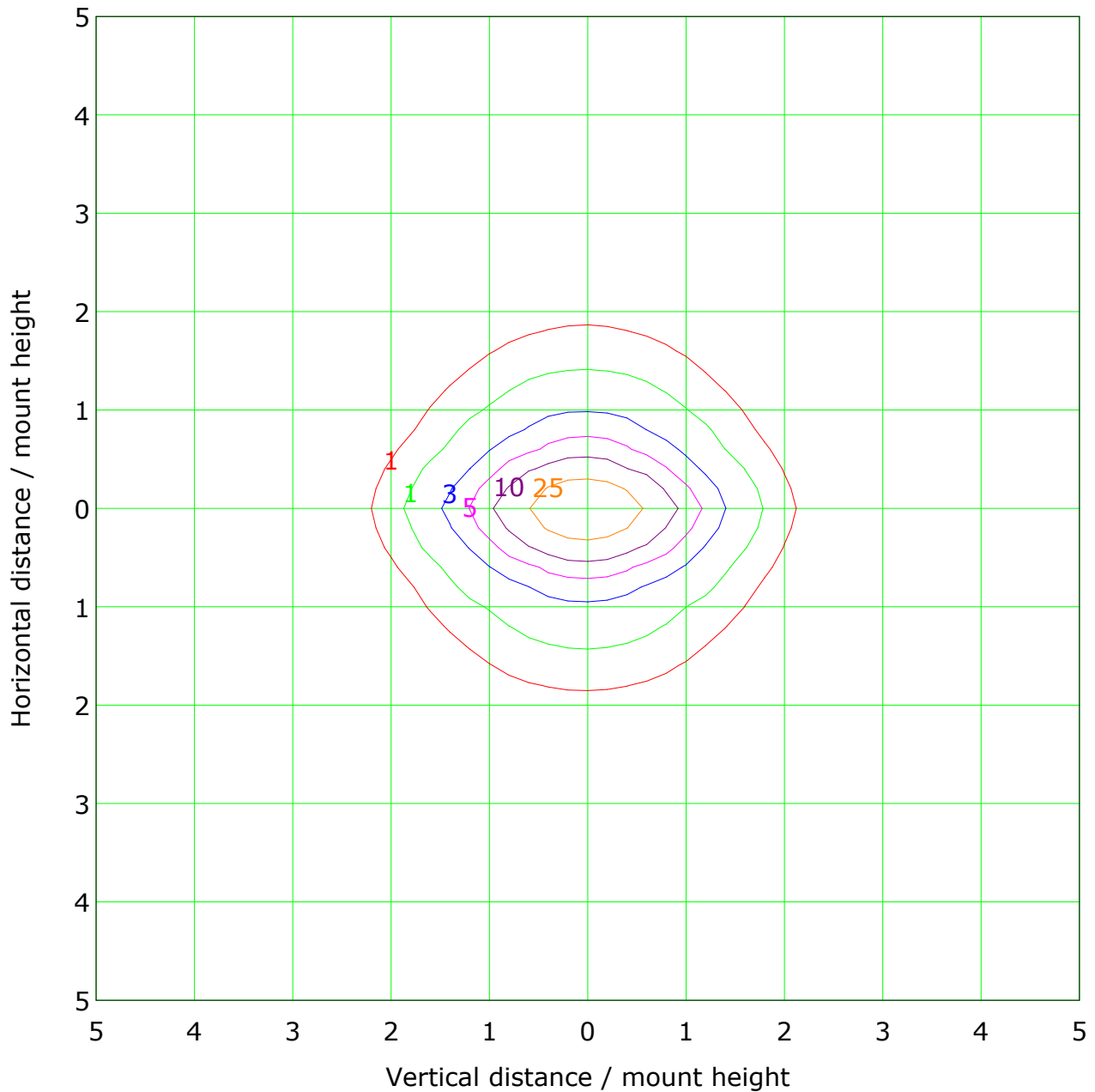
Spacing Criteria (0-180): 1.16
 Spacing Criteria (90-270): 0.60
 Spacing Criteria (Diagonal): 0.77



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:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 50.8 lx

(1%): 0.5 lx	(2%): 1.0 lx
(5%): 2.5 lx	(10%): 5.1 lx
(20%): 10.2 lx	(50%): 25.4 lx
(100%): 50.8 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

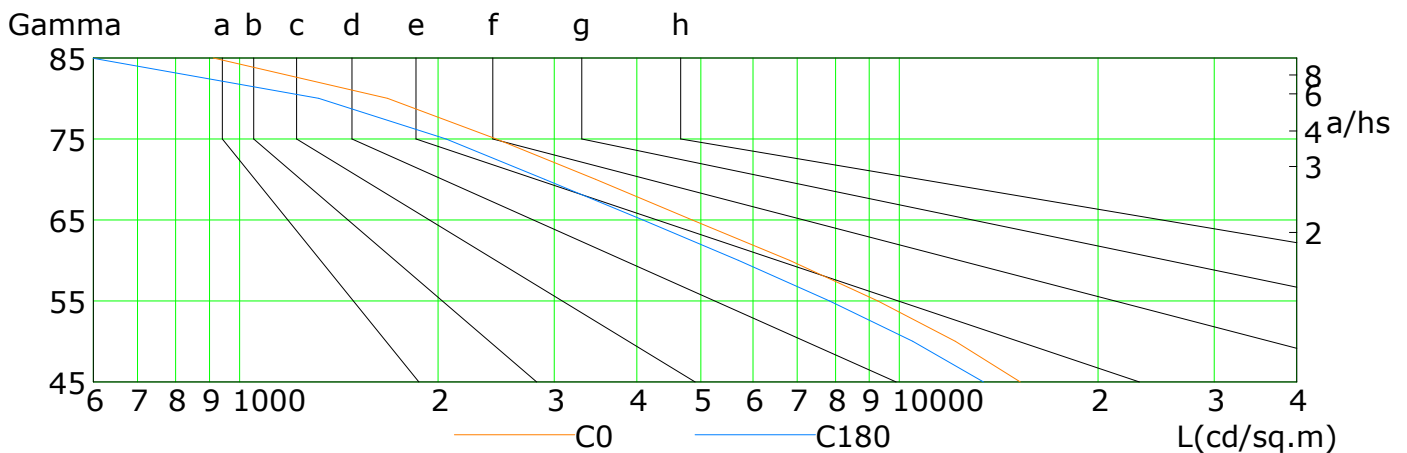
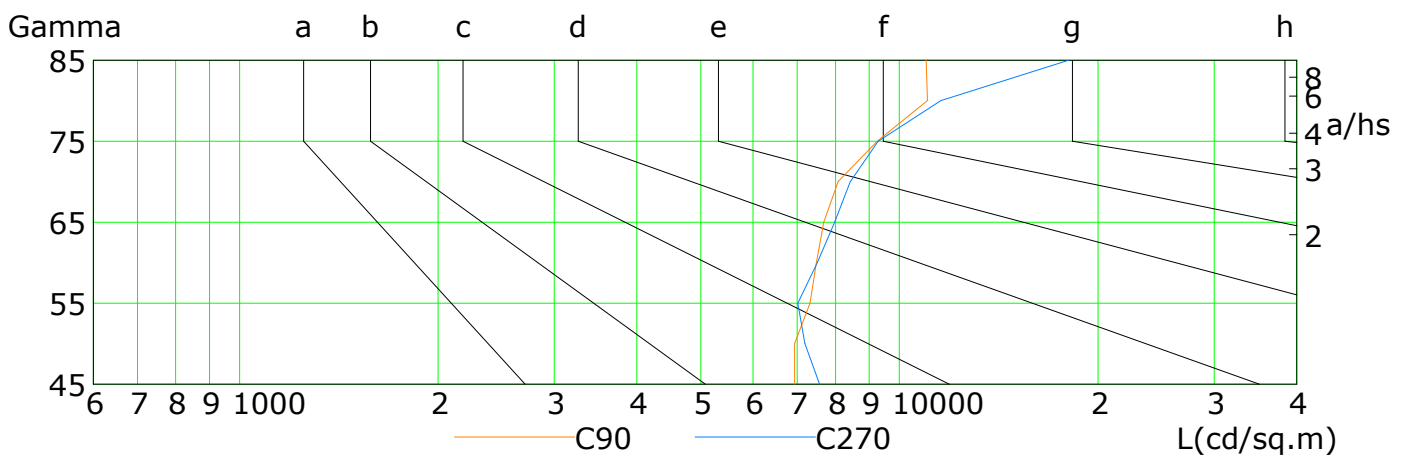
Humidity:

Inspector:

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	15245	12150	9280	6816	4850	3462	2450	1676	913
C90	6938	6938	7316	7484	7679	8077	9255	11024	10975
C180	13415	10472	7835	5700	4084	2899	2055	1319	598
C270	7569	7188	7018	7513	7979	8427	9284	11564	18045

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

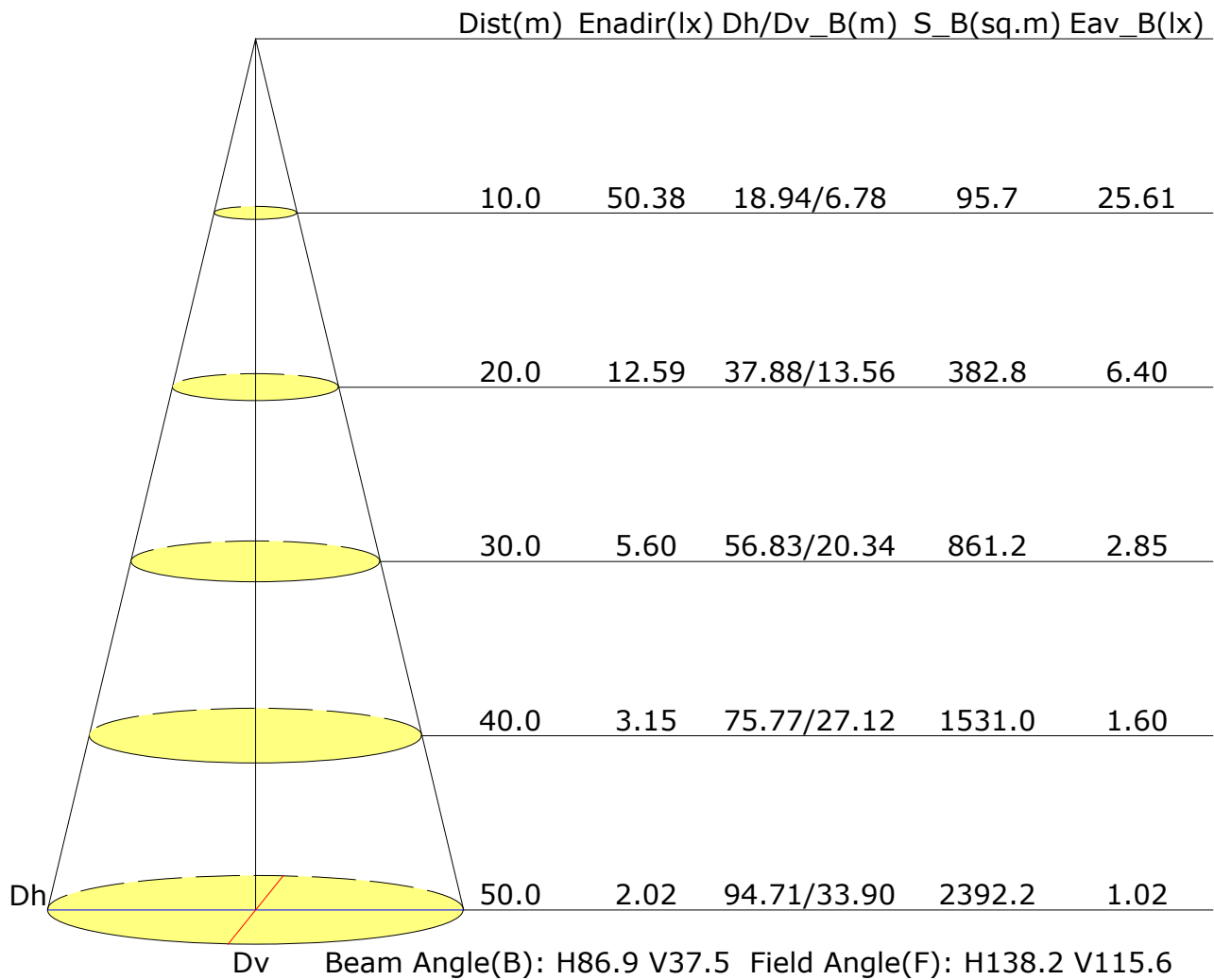
Test Device: LSG-1800B

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

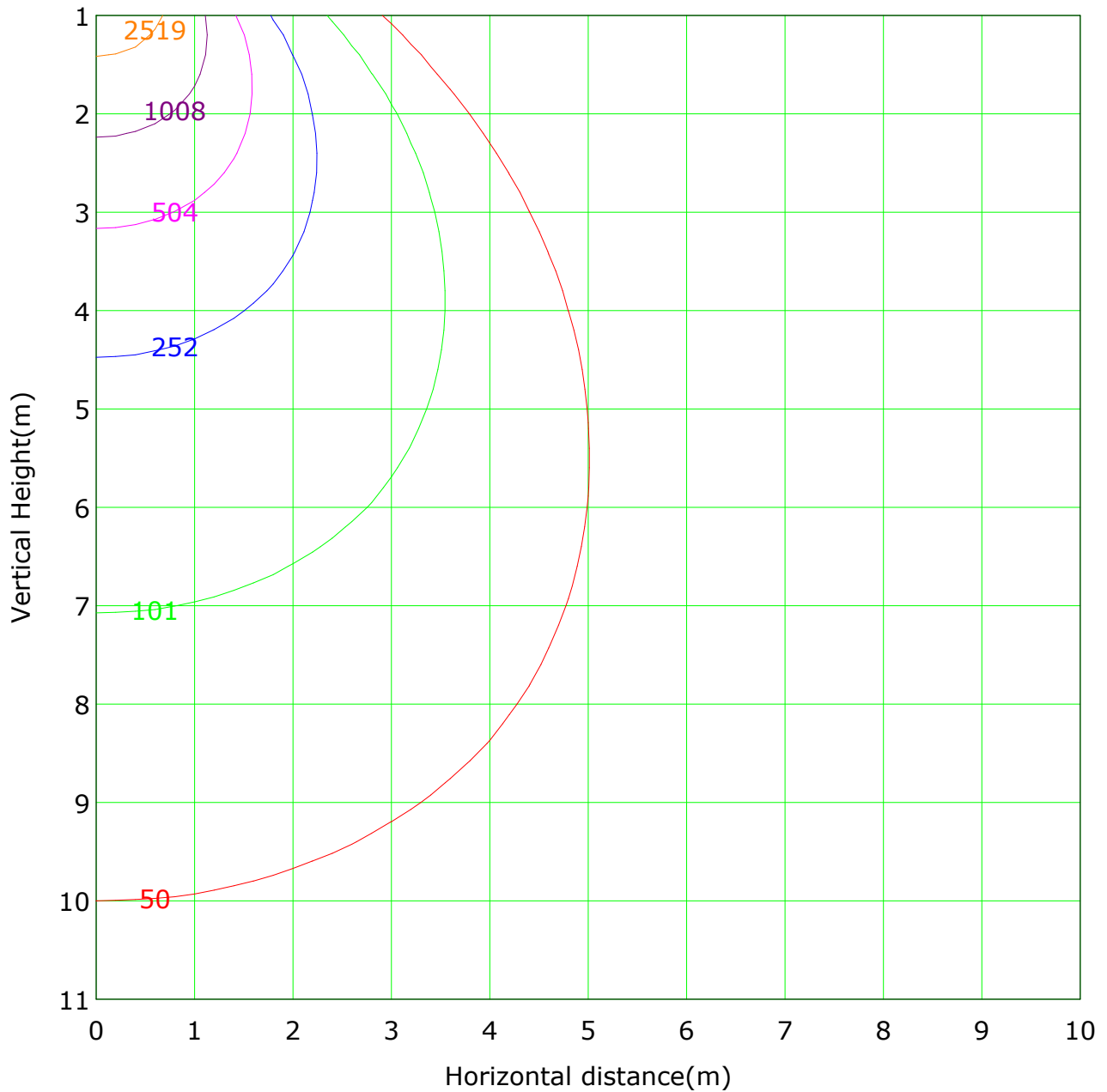
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5037.8 lx
— (1%): 50.4 lx — (2%): 100.8 lx
— (5%): 251.9 lx — (10%): 503.8 lx
— (20%): 1007.6 lx — (50%): 2518.9 lx
— (100%): 5037.8 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	3157	49.0
FL (0°-30°)	1418	22.0
FM (30°-60°)	1255	19.5
FH (60°-80°)	403	6.3
FVH (80°-90°)	80	1.2
BACK LIGHT	3102	48.2
BL (0°-30°)	1351	21.0
BM (30°-60°)	1236	19.2
BH (60°-80°)	408	6.3
BVH (80°-90°)	108	1.7
UP LIGHT	182	2.8
UL (90°-100°)	69	1.1
UH (100°-180°)	113	1.8
TRAPPED LIGHT	NA	NA

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

C Plane (°):0.0-360.0: 22.5

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Test Type: TYPE C

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Operator:

Gamma Plane (°):0.0-180.0:5.0

Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector: