

Report No.: 1

Test Time: 15.11.2018 16:00

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 80 105LED 0,35A 46W 5000K 90 degrees F15523

Lamp Description: LED

Luminous Length (mm): 1500

Luminous Width (mm): 80

Luminous Height (mm): 75

Voltage: 222.1 V

Current: 0.216 A

Power: 47.34 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 6331.5 lm

Measurement Flux: 6331.5 lm

Efficiency: 100%

Downward Ratio: 97%

Upward Ratio: 3%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.4, 129.7, 139.1, 139.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 101.3, 88.2, 86.9, 87.1

Luminaire Efficacy Rating (LER): 133.79

Central Intensity: 2827.73 cd

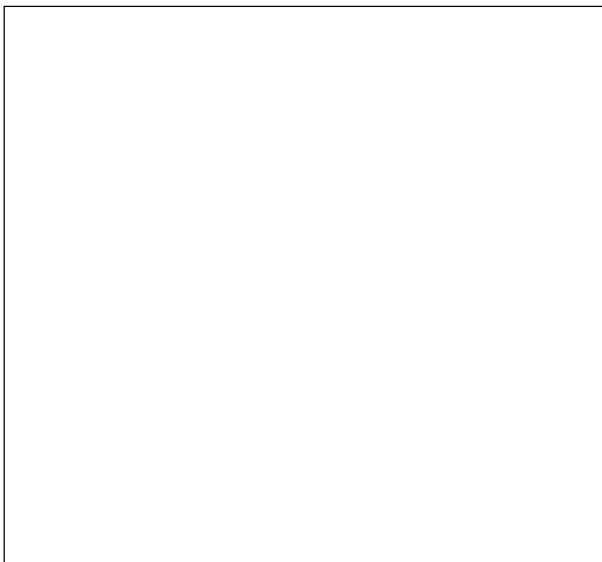
Max. Intensity: 2843.74 cd

Pos of Max. Intensity: H90 V0

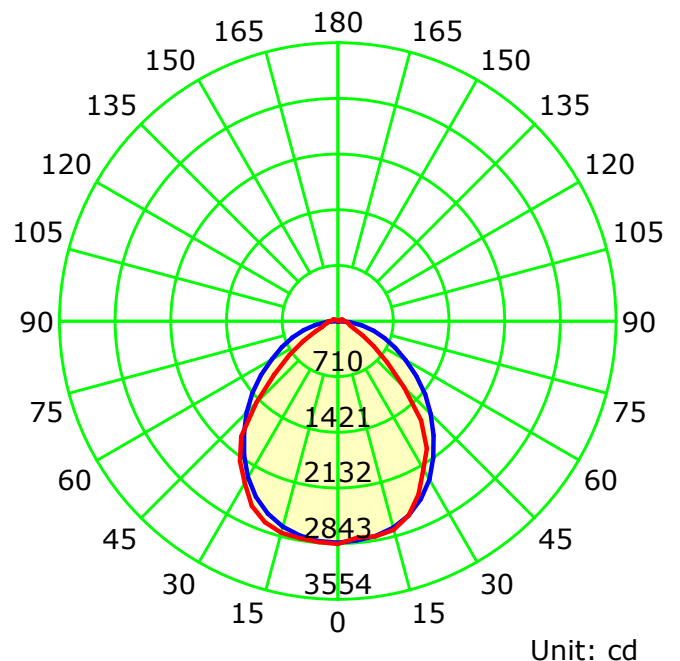
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.20

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:

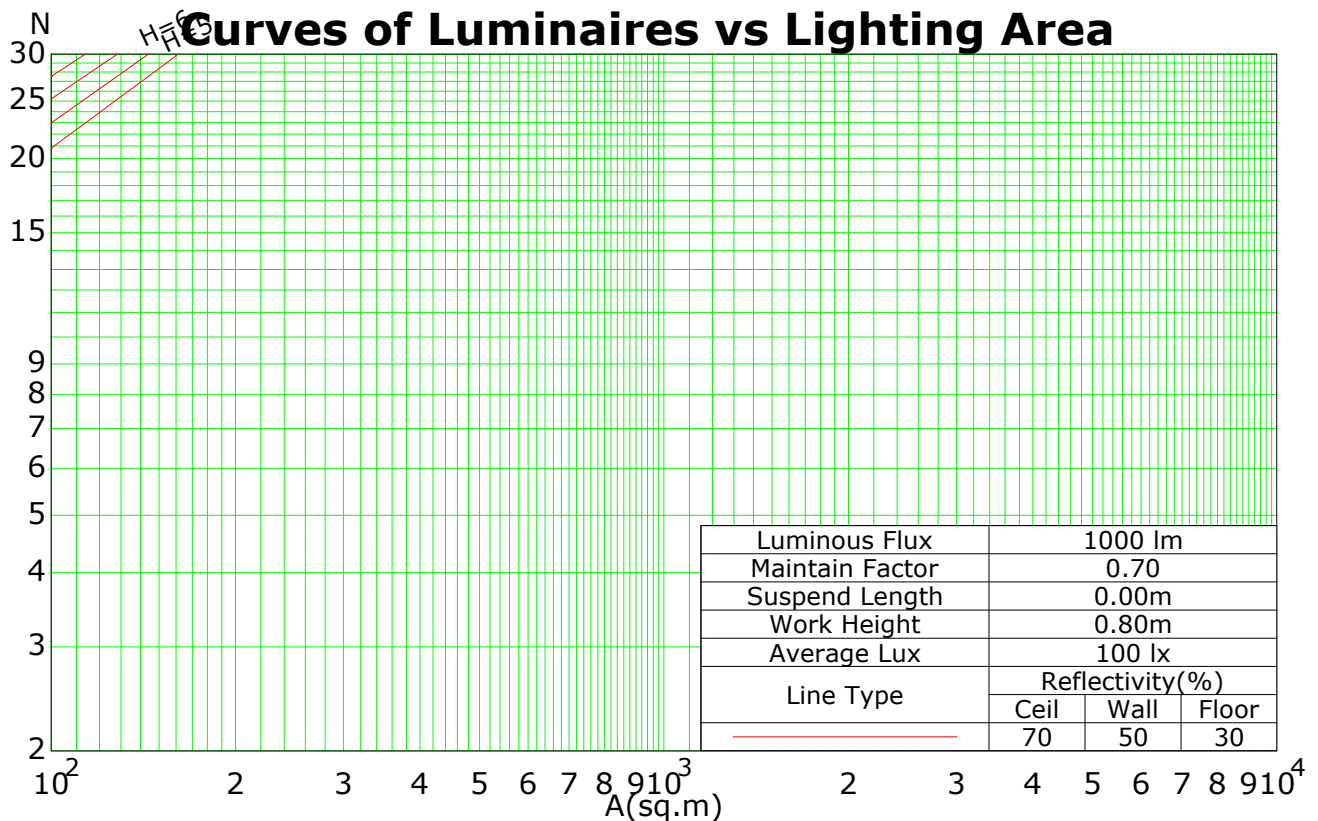
Operator:

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	98	106	102	99	96	98	95	92	93	91	89	89	88	86	84
2	101	93	87	82	98	91	86	81	87	83	79	84	80	76	80	77	74	72
3	93	83	76	70	90	81	75	69	78	72	68	75	70	66	72	68	65	63
4	86	75	67	61	83	73	66	60	71	64	59	68	62	58	66	61	57	55
5	79	68	59	53	77	66	59	53	64	57	52	62	56	51	60	55	50	48
6	74	61	53	47	72	60	53	47	58	51	46	56	50	46	55	49	45	43
7	69	56	48	42	67	55	47	42	53	47	42	52	46	41	50	45	41	39
8	64	51	44	38	62	51	43	38	49	42	38	48	42	37	46	41	37	35
9	60	48	40	35	59	47	39	34	46	39	34	44	38	34	43	38	34	32
10	56	44	37	32	55	43	36	31	42	36	31	41	35	31	40	35	31	29

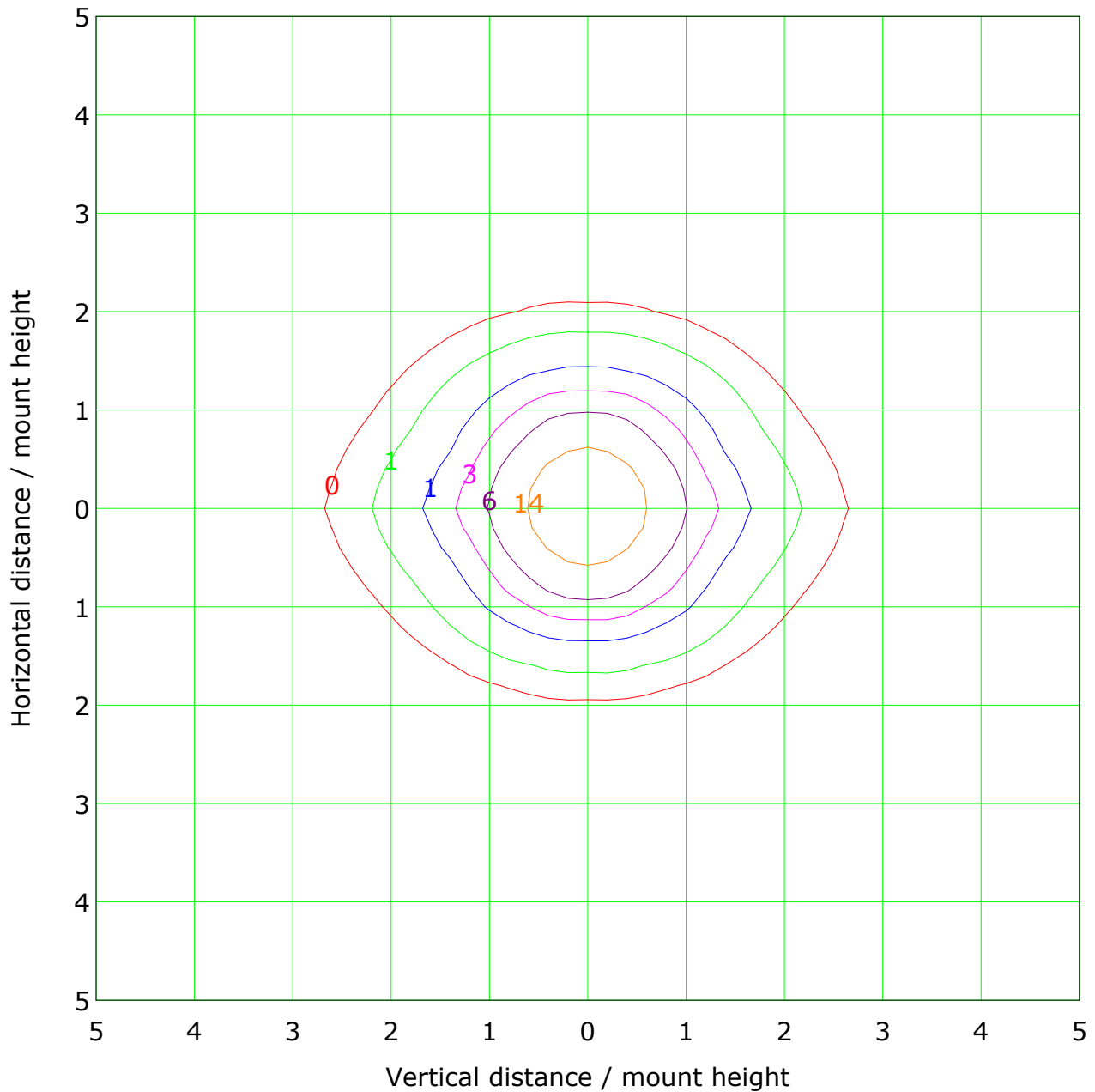
Spacing Criteria (0-180): 1.22
 Spacing Criteria (90-270): 1.20
 Spacing Criteria (Diagonal): 1.21



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%): 28.4 lx

(1%): 0.3 lx	(2%): 0.6 lx
(5%): 1.4 lx	(10%): 2.8 lx
(20%): 5.7 lx	(50%): 14.2 lx
(100%): 28.4 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

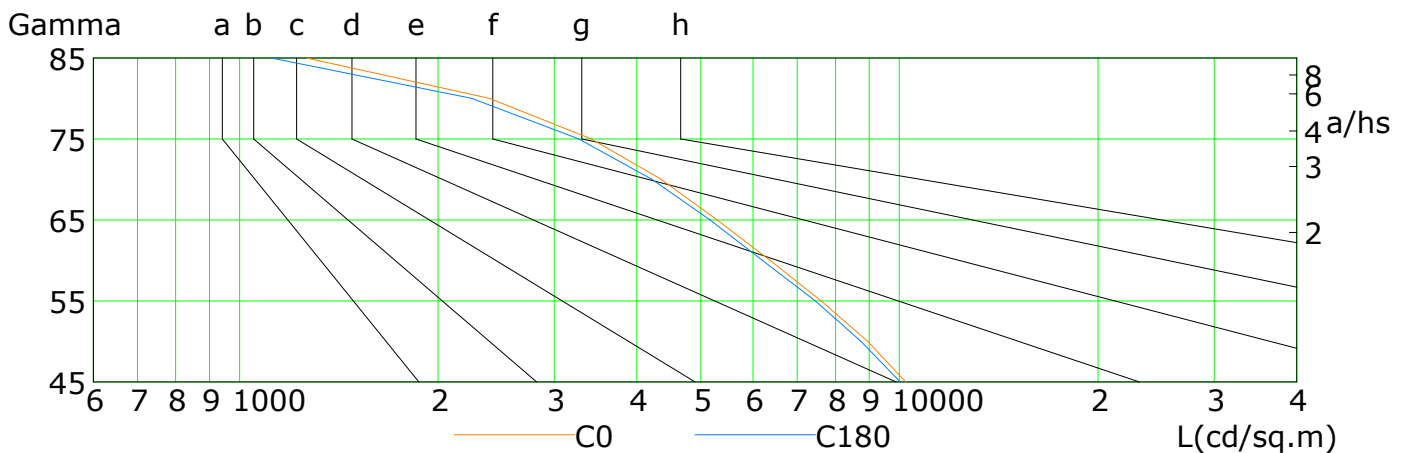
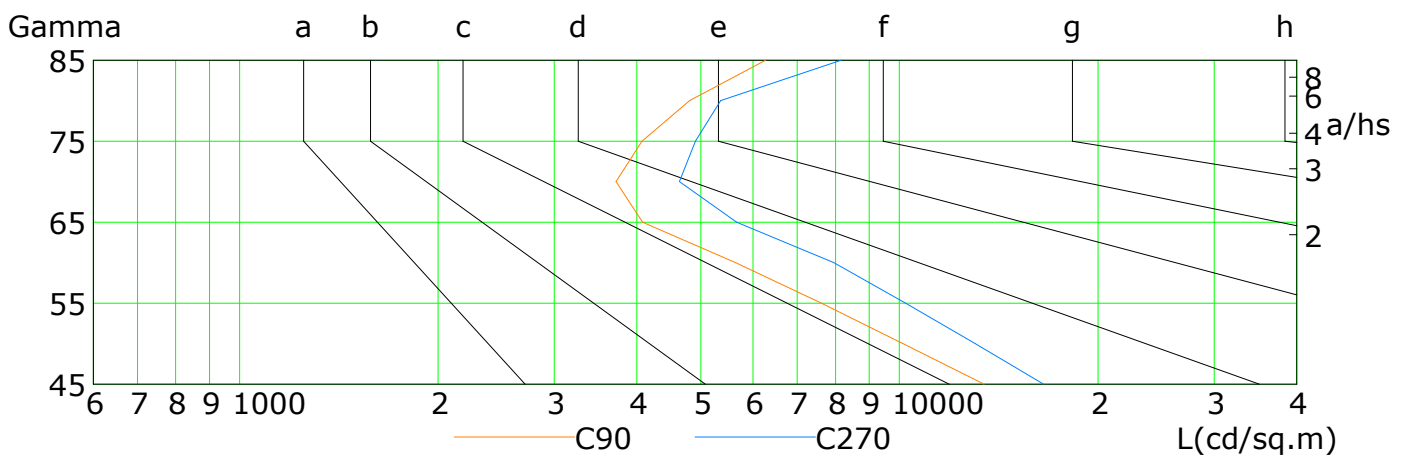
Humidity:

Inspector:

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	10220	8949	7608	6364	5293	4353	3415	2391	1264
C90	13436	10122	7619	5645	4079	3719	4074	4811	6265
C180	10033	8740	7459	6196	5169	4216	3269	2249	1117
C270	16538	13024	10217	7949	5668	4642	4905	5358	8154

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

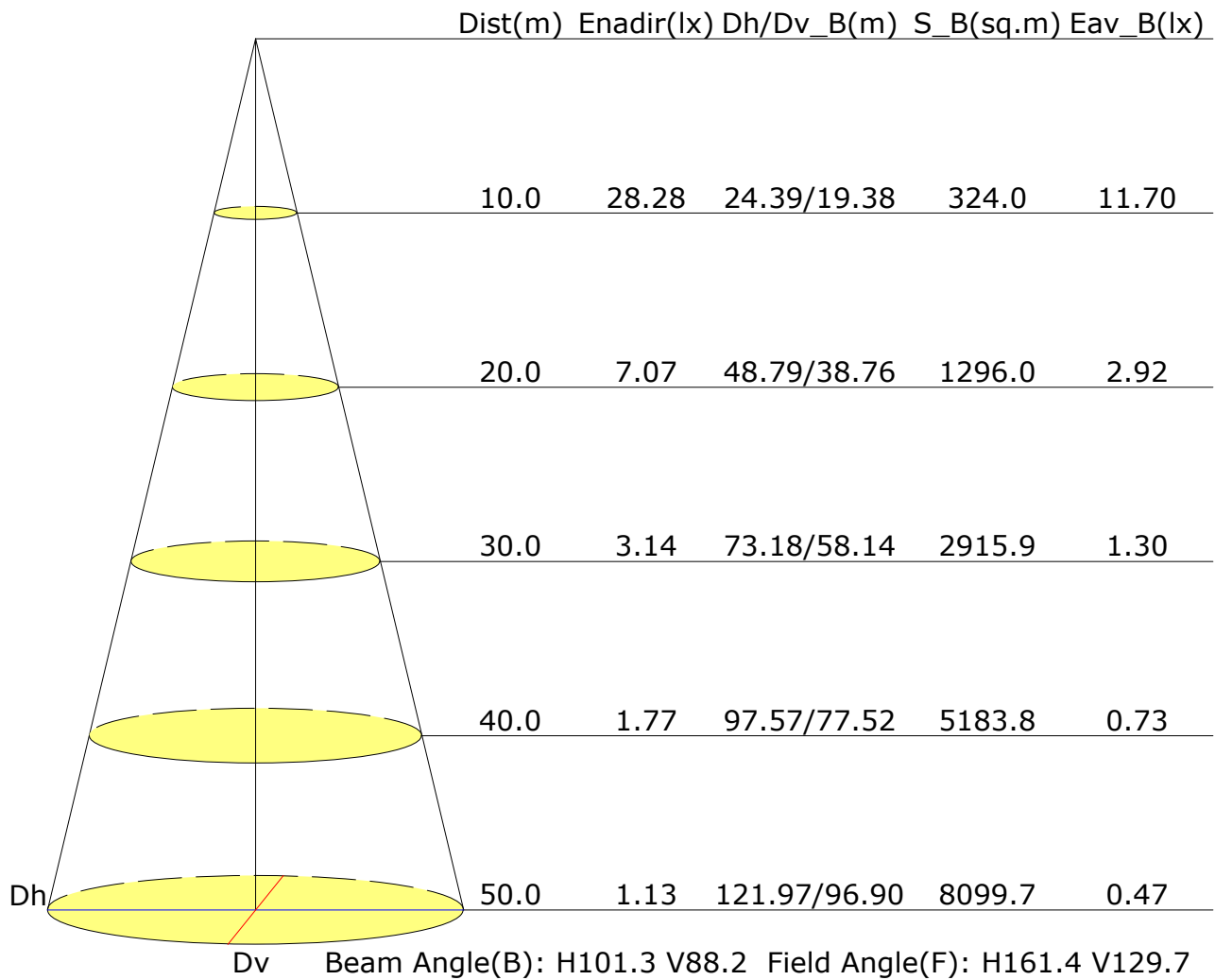
Test Device: LSG-1800B

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

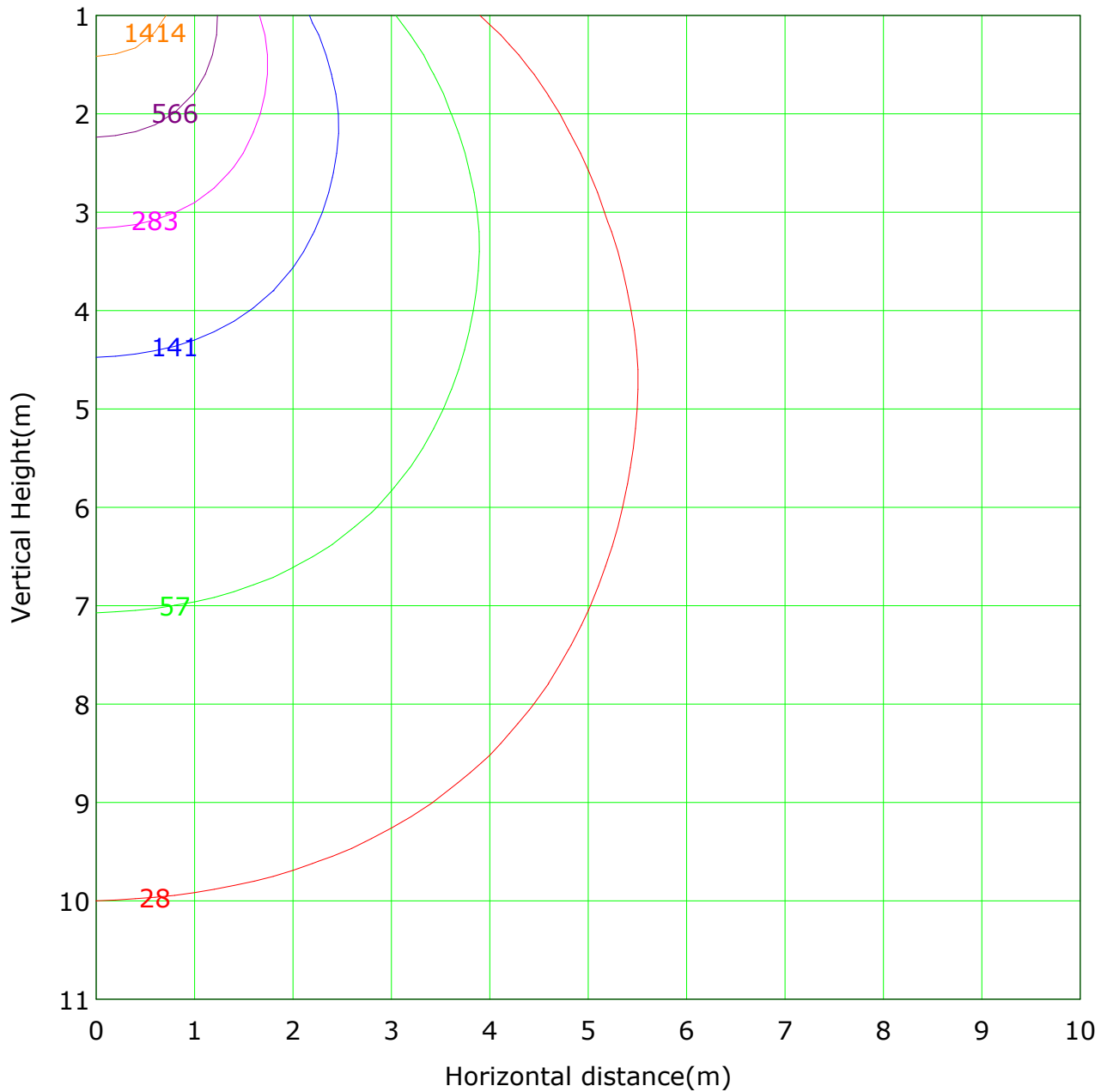
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2827.7 lx
— (1%): 28.3 lx — (2%): 56.6 lx
— (5%): 141.4 lx — (10%): 282.8 lx
— (20%): 565.5 lx — (50%): 1413.9 lx
— (100%): 2827.7 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	2952	46.6
FL (0°-30°)	1084	17.1
FM (30°-60°)	1483	23.4
FH (60°-80°)	330	5.2
FVH (80°-90°)	55	0.9
BACK LIGHT	3201	50.6
BL (0°-30°)	1113	17.6
BM (30°-60°)	1641	25.9
BH (60°-80°)	382	6.0
BVH (80°-90°)	65	1.0
UP LIGHT	178	2.8
UL (90°-100°)	61	1.0
UH (100°-180°)	118	1.9
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

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