

Report No.: 1

Test Time: 14.02.2019 09:28

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 80LED 0,764A 100W 5000K opal

Lamp Description: LED

Luminous Width (mm): 60

Voltage: 220.4 V

Power: 97.88 W

Luminous Length (mm): 1550

Luminous Height (mm): 83

Current: 0.451 A

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Measurement Flux: 11956.8 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.5, 162.9, 161.6, 161.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.0, 110.0, 109.5, 109.5

Luminaire Efficacy Rating (LER): 122.21

Max. Intensity: 4272.9 cd

S/MH(C0/C180): 1.23

Total Rated Lamp Lumens: 11956.8 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 4272.9 cd

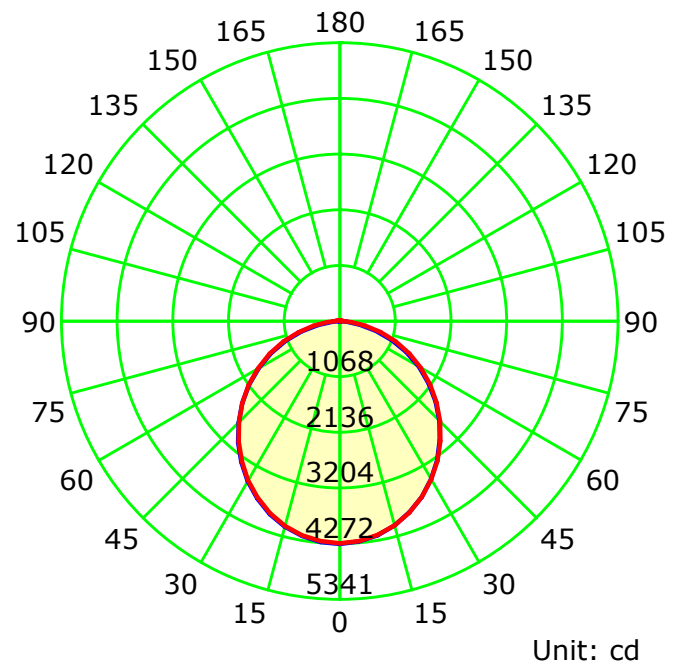
Pos of Max. Intensity: H0 V0

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

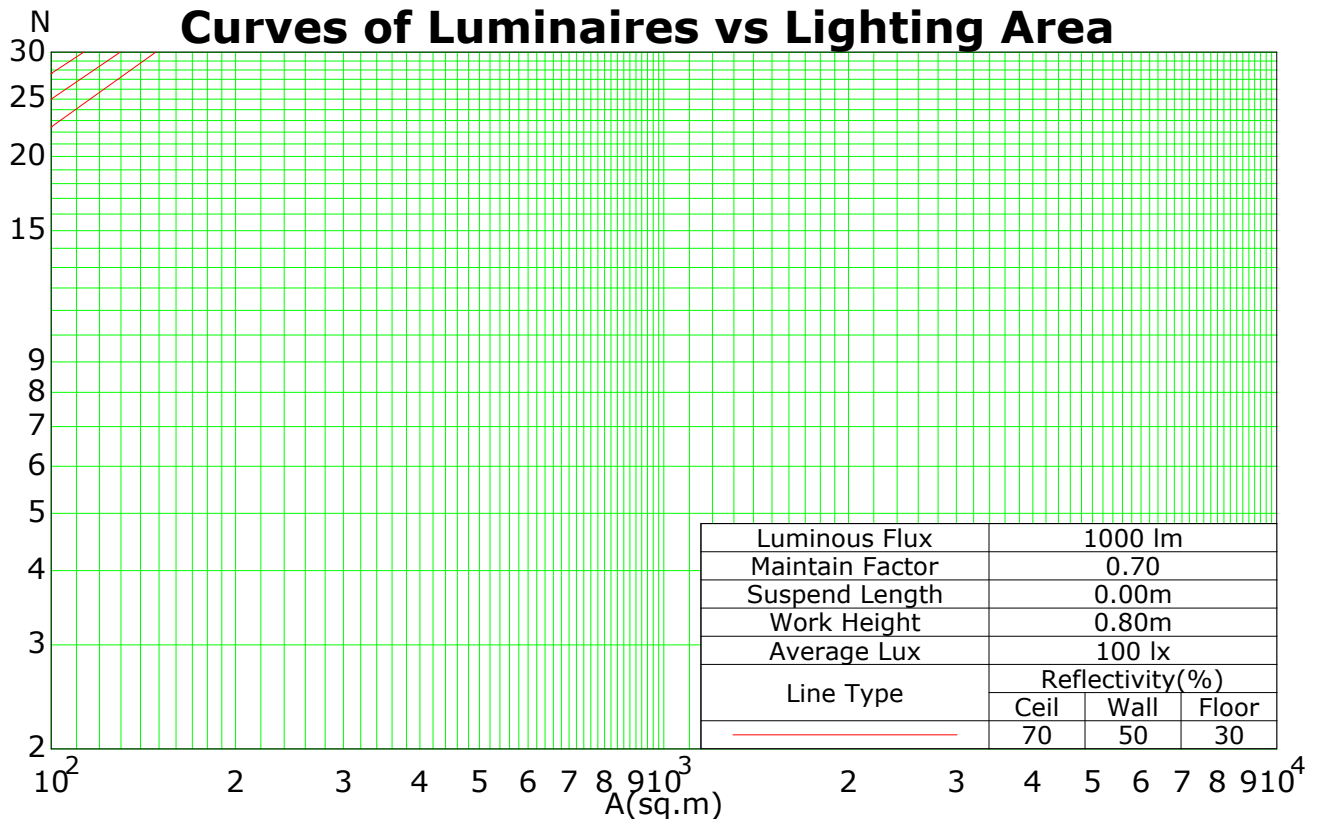
Humidity:

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	106	106	106	101	101	101	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	84	79	75	81	77	73	78	74	71	69
3	90	79	71	64	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	47	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

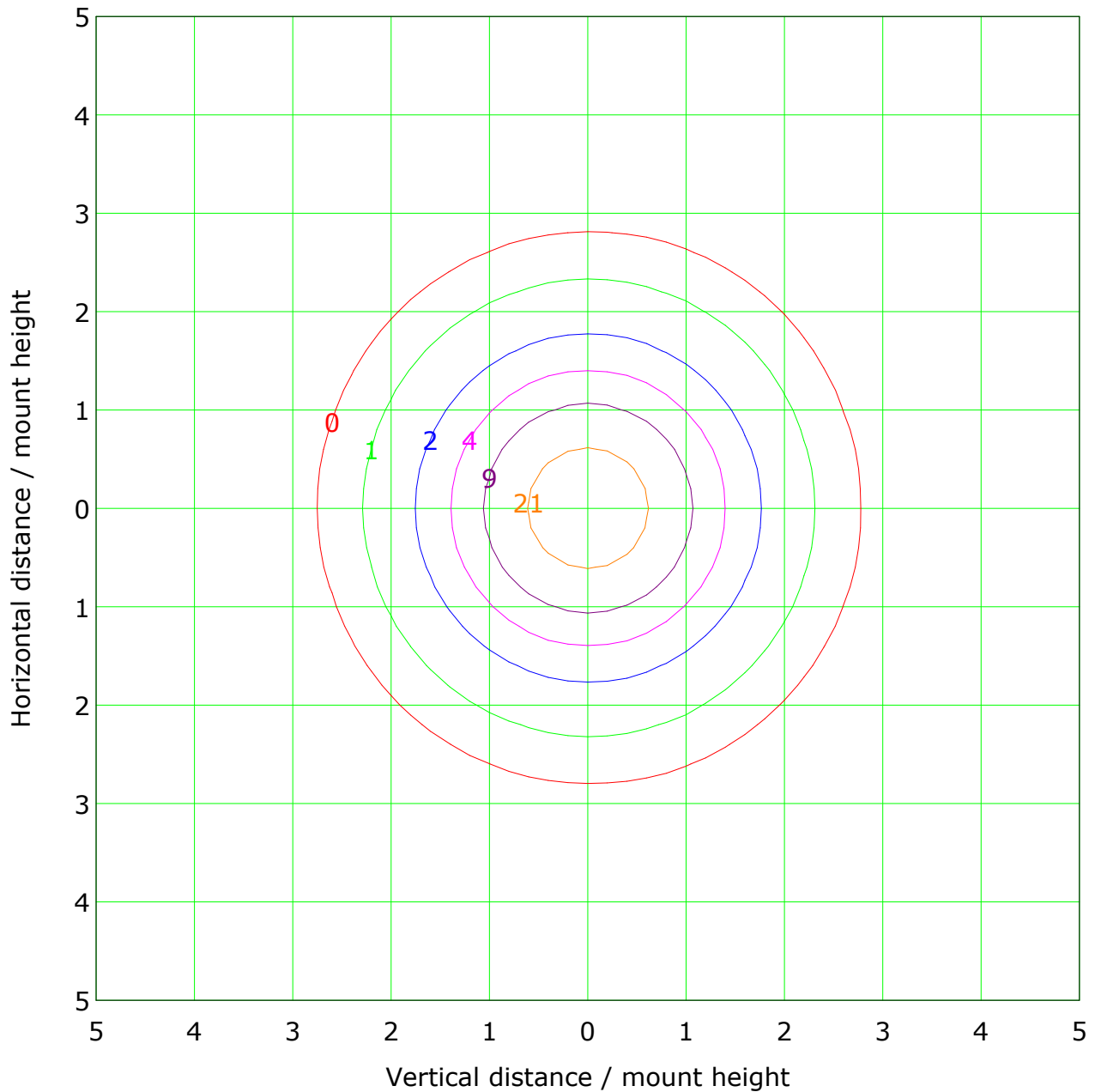
Spacing Criteria (0-180): 1.23
 Spacing Criteria (90-270): 1.23
 Spacing Criteria (Diagonal): 1.34



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

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 42.7 lx

(1%): 0.4 lx	(2%): 0.9 lx
(5%): 2.1 lx	(10%): 4.3 lx
(20%): 8.5 lx	(50%): 21.4 lx
(100%): 42.7 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

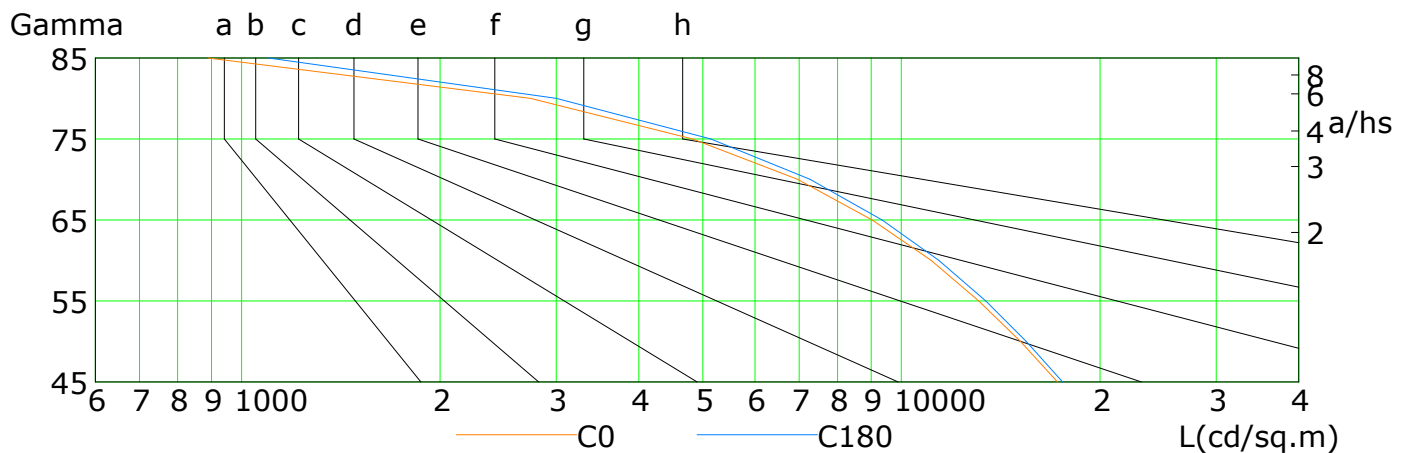
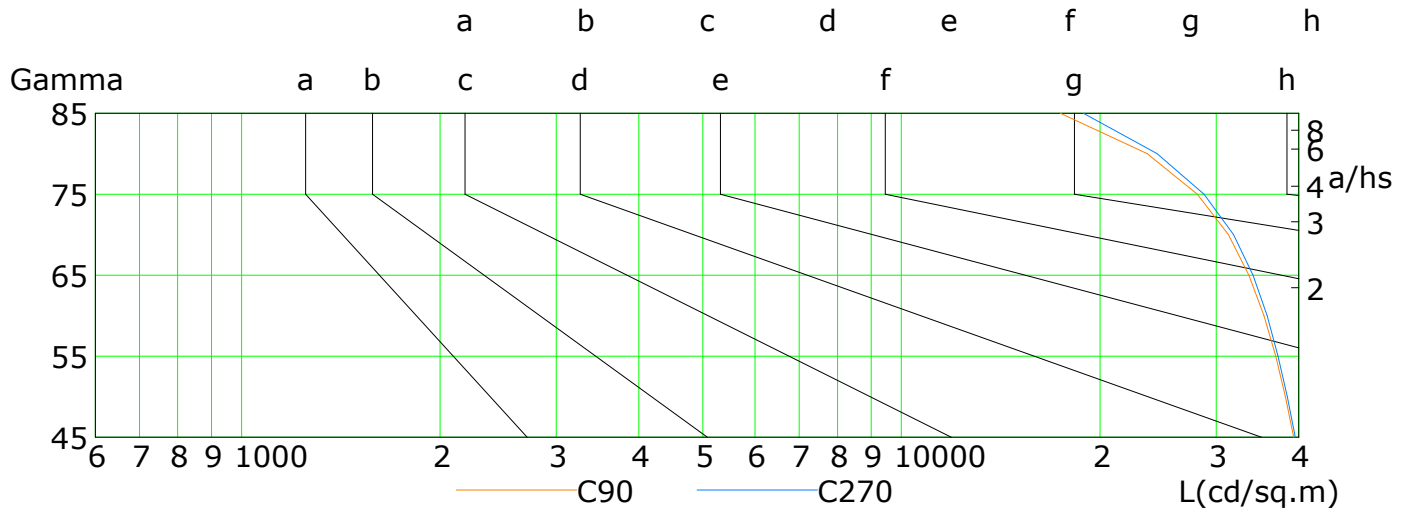
Distance: 12.654 m

Humidity:

Inspector:

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	17238	15145	13100	11092	9032	6957	4825	2739	889
C90	39325	38177	36918	35433	33630	31309	28082	23561	17415
C180	17548	15452	13429	11389	9347	7272	5145	2998	1099
C270	39545	38448	37238	35826	34097	31854	28762	24390	18875

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Test Type: TYPE C

Temperature:

Operator:

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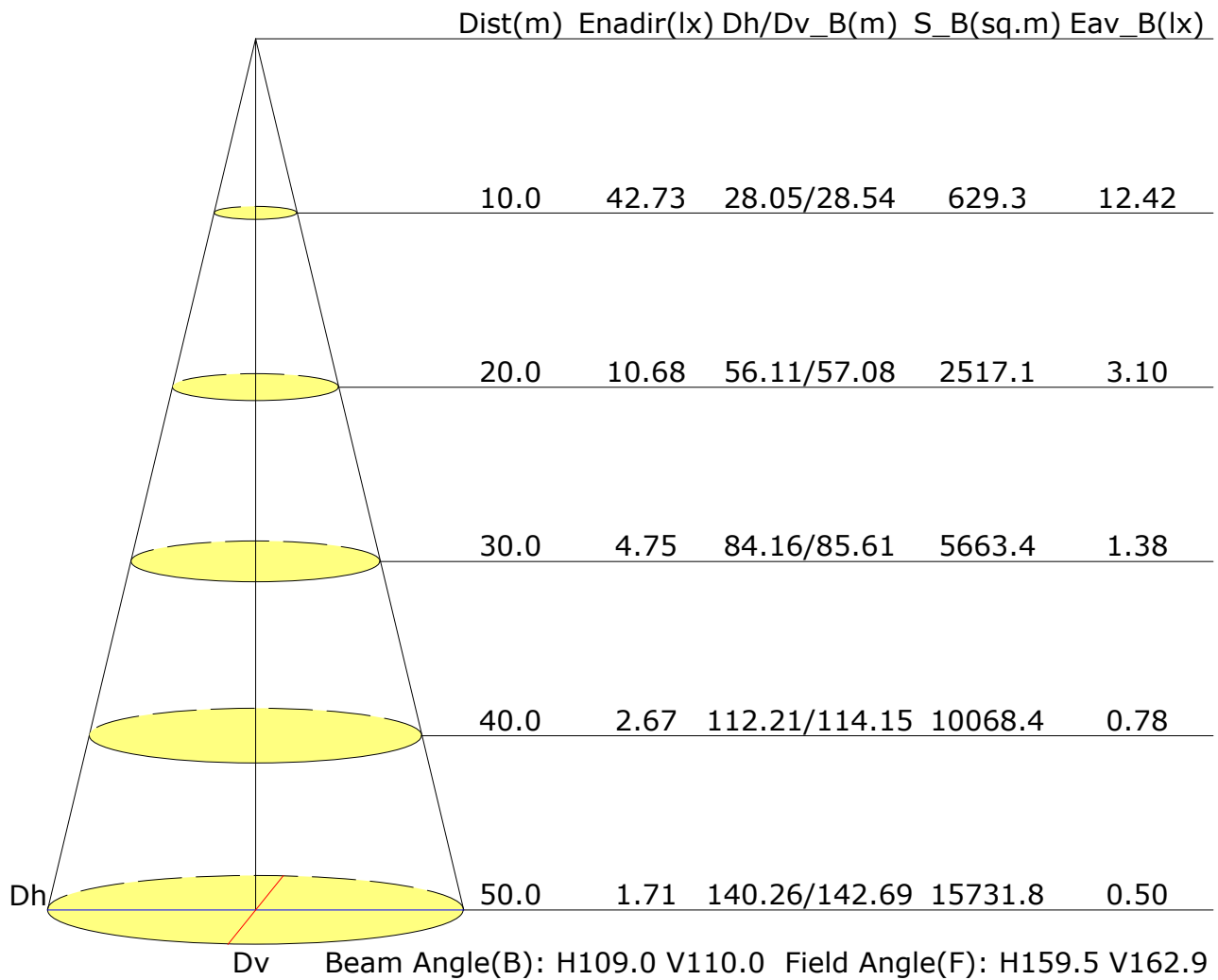
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

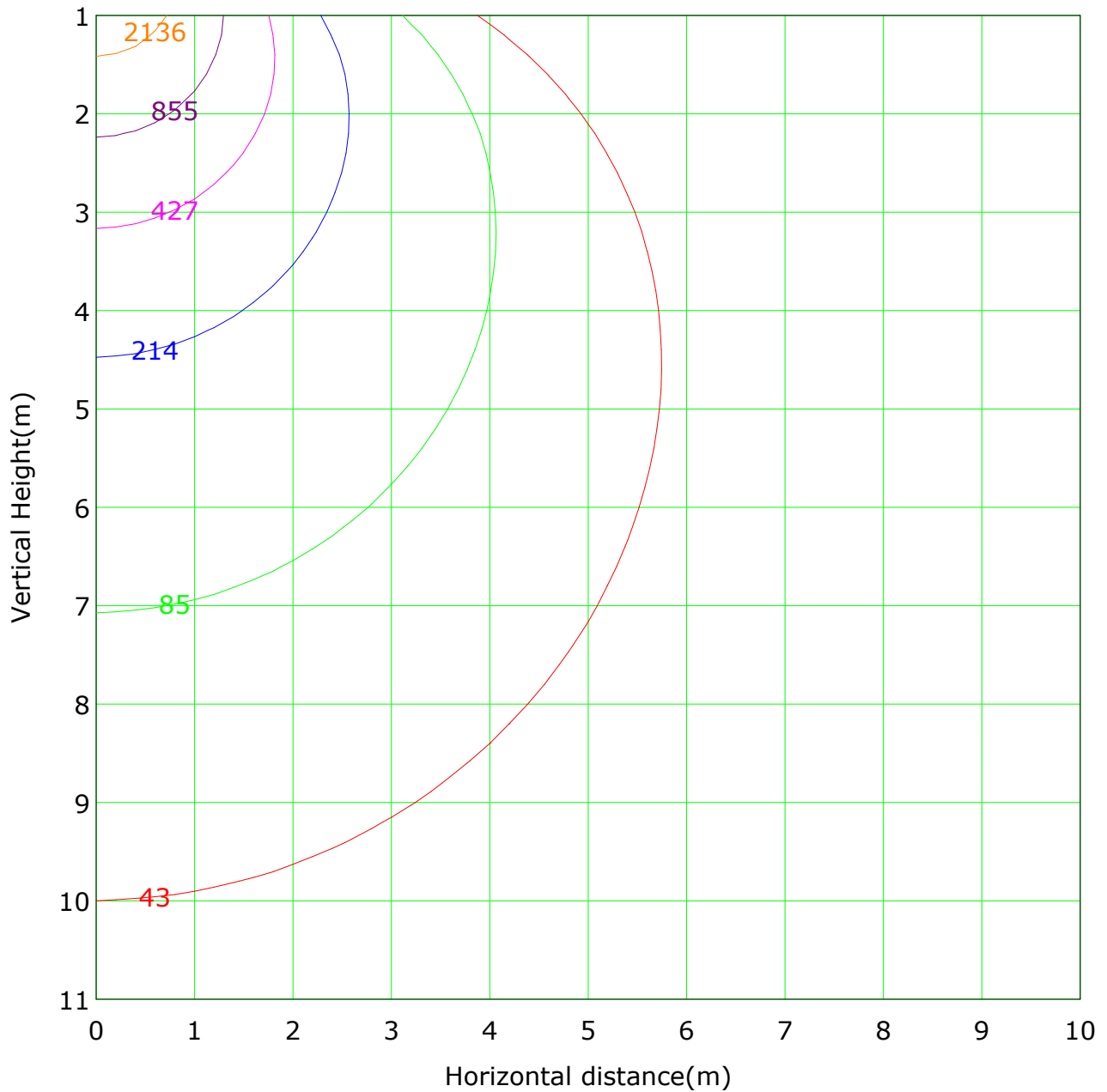
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4272.9 lx
— (1%): 42.7 lx — (2%): 85.5 lx
— (5%): 213.6 lx — (10%): 427.3 lx
— (20%): 854.6 lx — (50%): 2136.4 lx
— (100%): 4272.9 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	5893	49.3
FL (0°-30°)	1632	13.7
FM (30°-60°)	3014	25.2
FH (60°-80°)	1128	9.4
FVH (80°-90°)	119	1.0
BACK LIGHT	5930	49.6
BL (0°-30°)	1635	13.7
BM (30°-60°)	3027	25.3
BH (60°-80°)	1142	9.6
BVH (80°-90°)	126	1.1
UP LIGHT	134	1.1
UL (90°-100°)	50	0.4
UH (100°-180°)	84	0.7
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U2 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U2 G1

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