

Report No.:

Test Time: 15.10.2018 14:36

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 32W 0,26A 5000K

Lamp Description: LED

Luminous Width (mm): 55

Voltage: 221.8 V

Power: 32.20 W

Luminous Length (mm): 900

Luminous Height (mm): 85

Current: 0.155 A

Power Factor: 0.938

Photometric Results

CIE Class: Direct

Measurement Flux: 4686.4 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.3, 153.3, 154.8, 155.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.2, 114.7, 113.3, 113.3

Luminaire Efficacy Rating (LER): 145.59

Max. Intensity: 1620.98 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 4686.4 lm

Efficiency: 100%

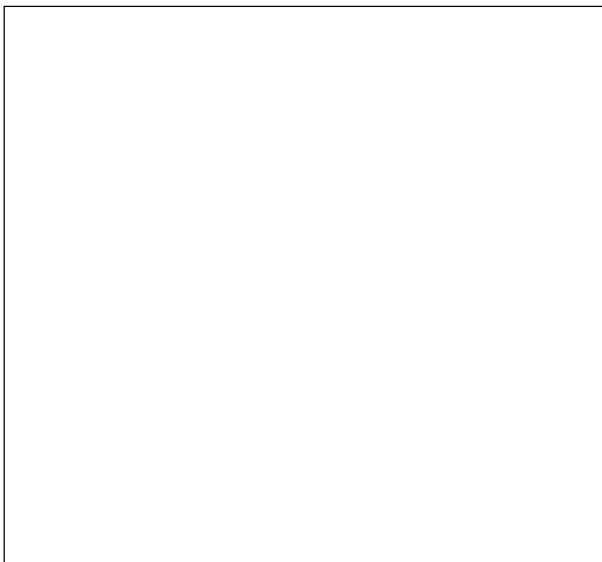
Upward Ratio: 1%

Central Intensity: 1619.77 cd

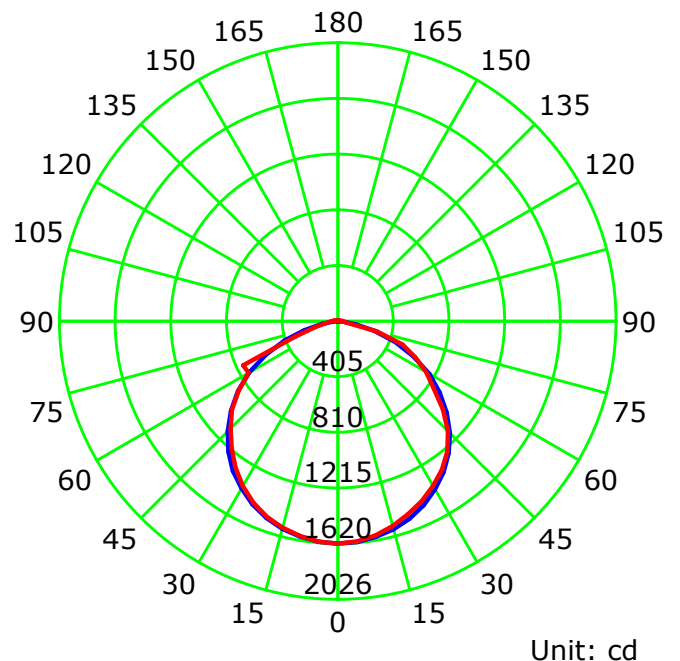
Pos of Max. Intensity: H135 V0

S/MH(C90/C270): 1.27

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

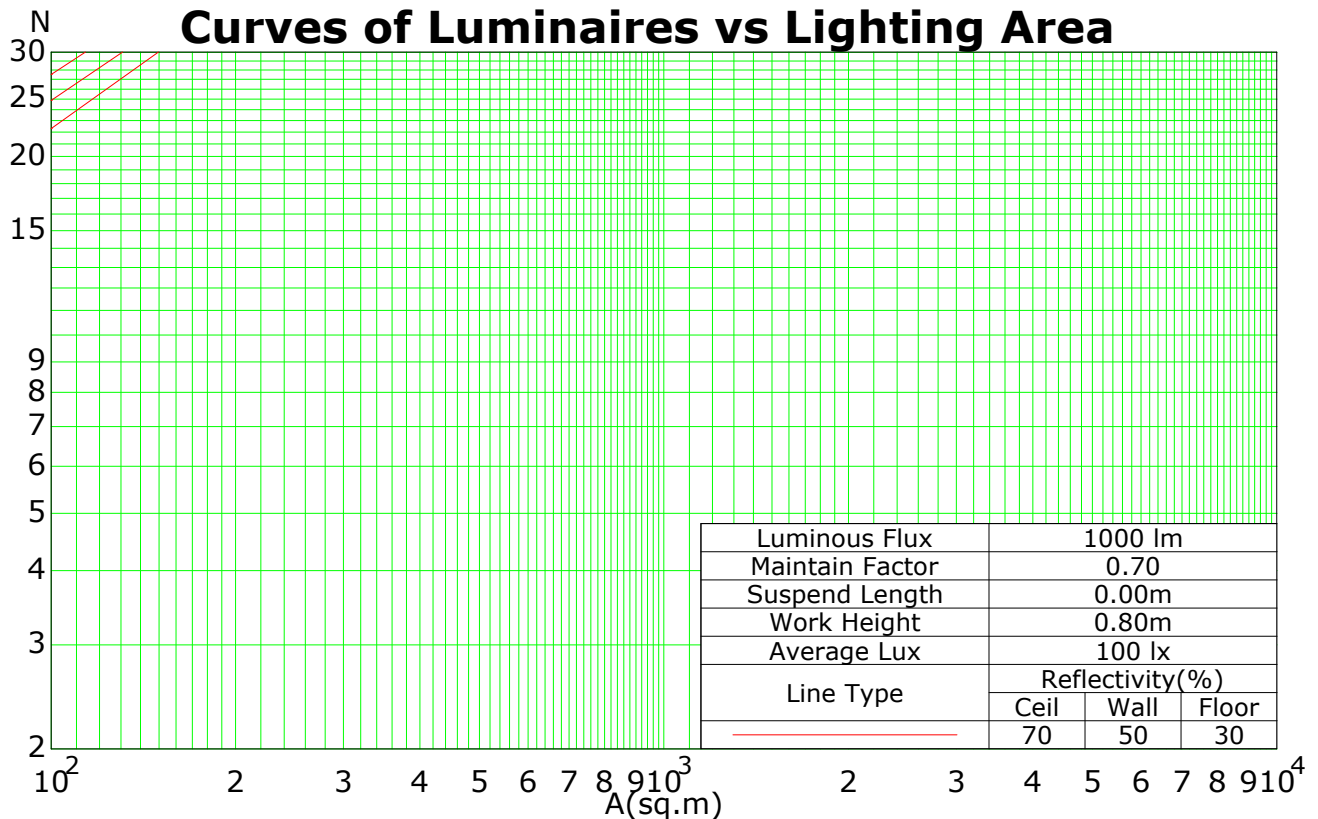
Humidity:

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	109	104	100	96	106	102	98	95	97	94	92	93	91	89	90	88	86	84
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	69	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	48	74	62	53	47	60	52	47	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	43	36	63	51	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
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

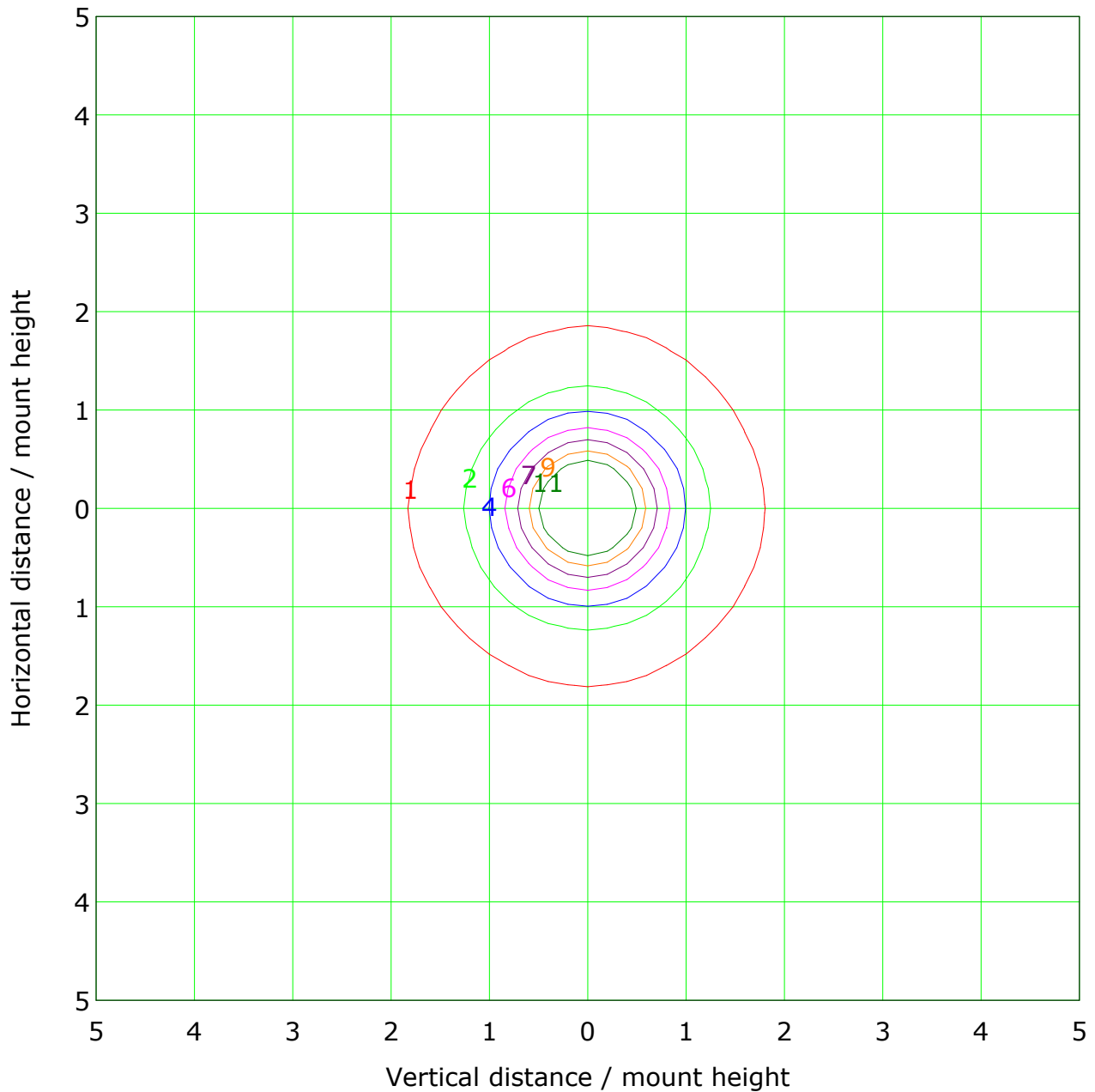
Spacing Criteria (0-180): 1.29
 Spacing Criteria (90-270): 1.27
 Spacing Criteria (Diagonal): 1.39



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 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 16.2 lx	
— (5%):	0.8 lx	— (15%):	2.4 lx
— (25%):	4.1 lx	— (35%):	5.7 lx
— (45%):	7.3 lx	— (55%):	8.9 lx
— (65%):	10.5 lx		

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

Test Device: LSG-1800B

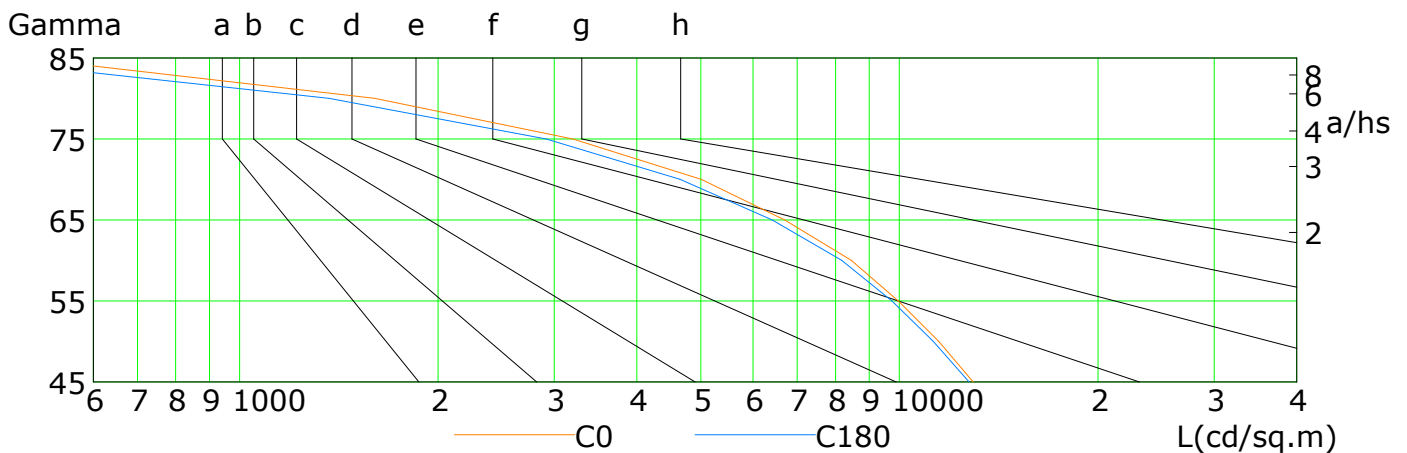
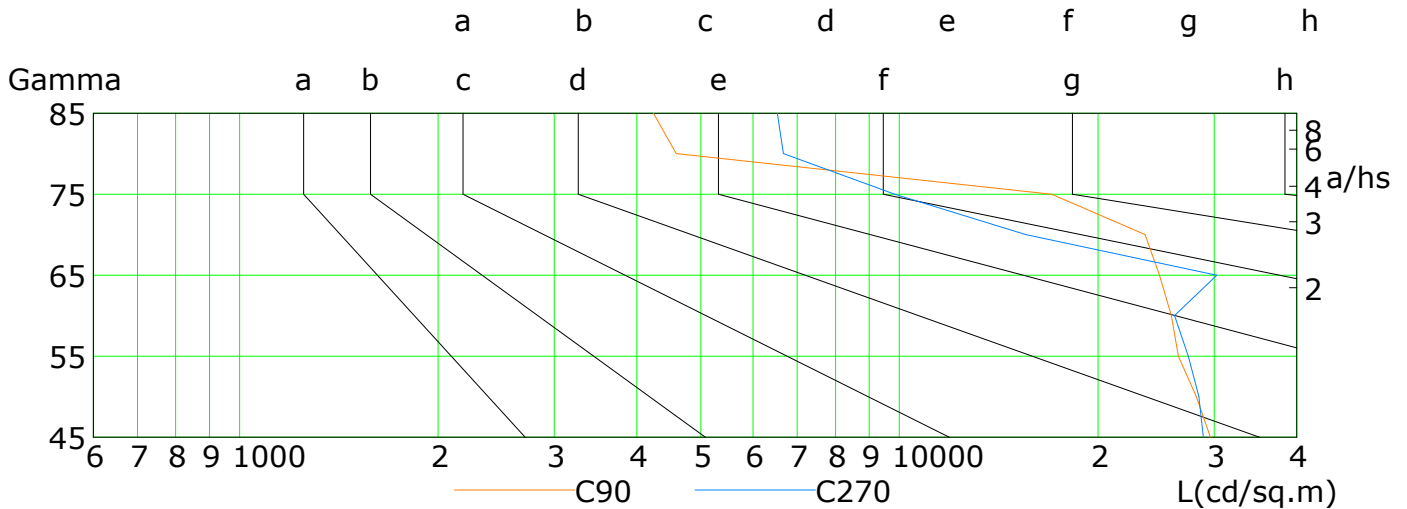
Distance: 12.654 m

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	12945	11466	9959	8453	6698	5004	3198	1603	475
C90	29589	28182	26463	25835	24790	23561	17020	4590	4240
C180	12746	11256	9747	8174	6413	4652	2917	1366	376
C270	28879	28435	27407	26118	30285	15539	9839	6675	6529

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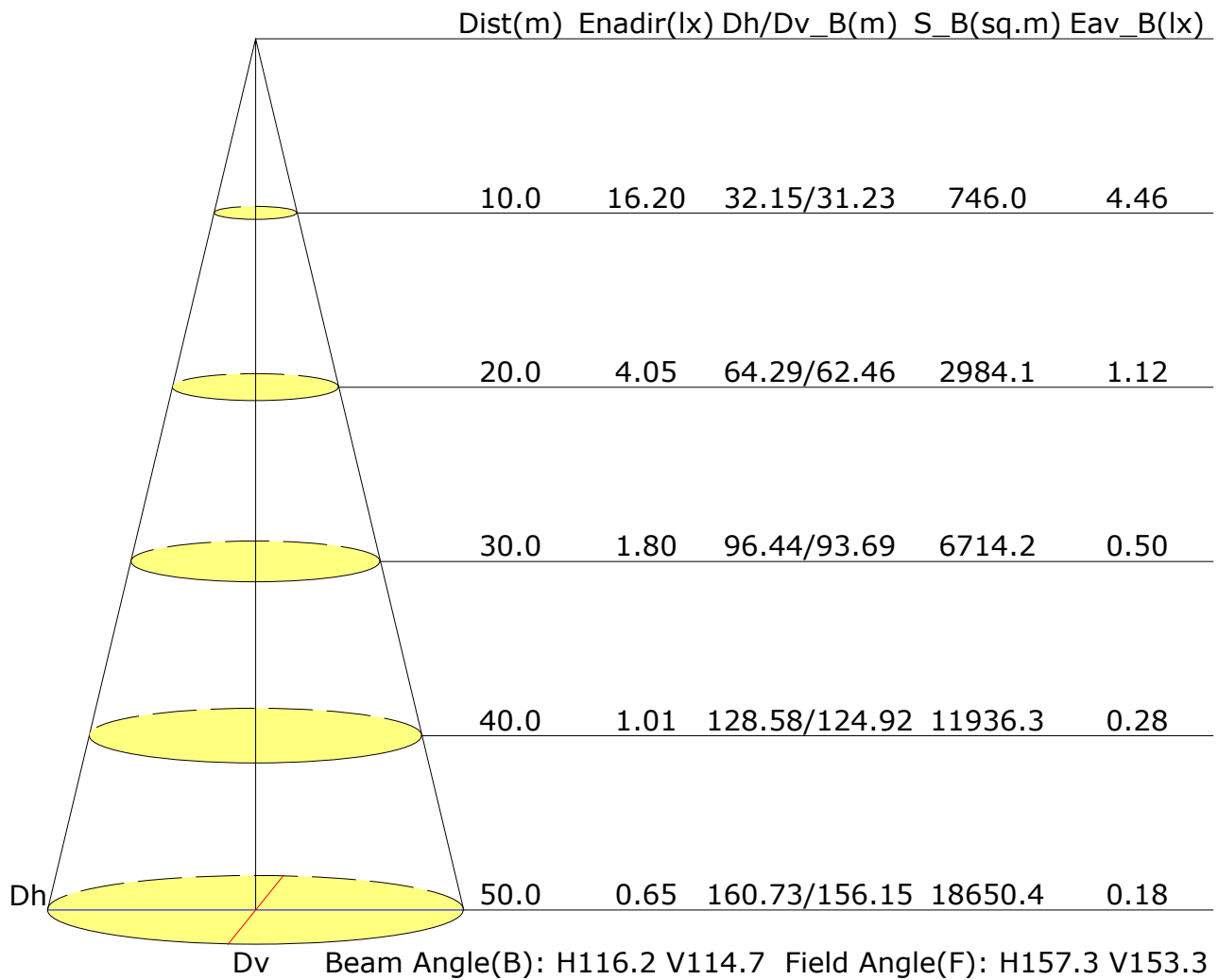
Test Device: LSG-1800B

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:

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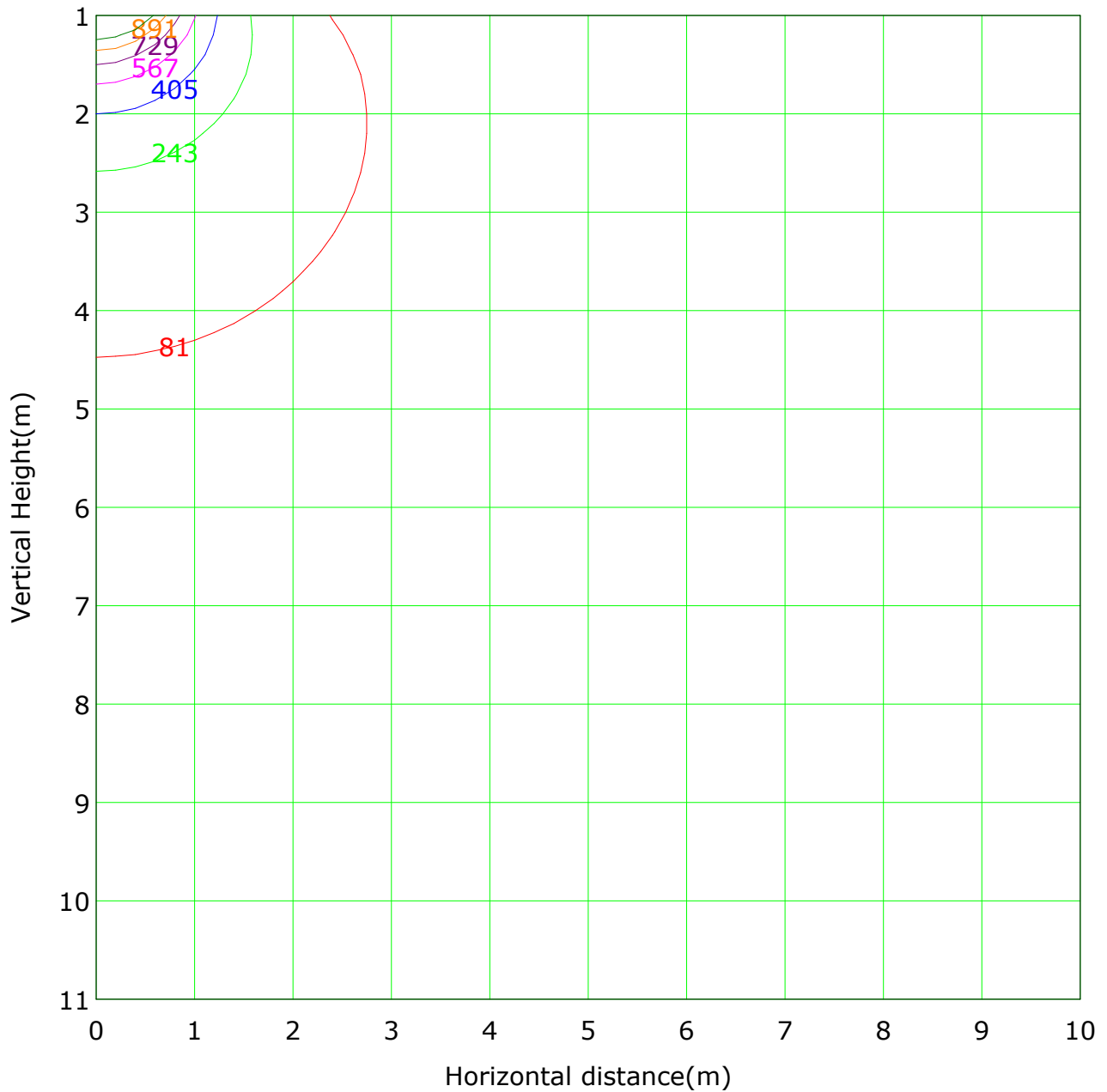
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1619.8 lx

(5%): 81.0 lx	(15%): 243.0 lx
(25%): 404.9 lx	(35%): 566.9 lx
(45%): 728.9 lx	(55%): 890.9 lx
(65%): 1052.9 lx	

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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	2323	49.6
FL (0°-30°)	632	13.5
FM (30°-60°)	1231	26.3
FH (60°-80°)	434	9.3
FVH (80°-90°)	27	0.6
BACK LIGHT	2310	49.3
BL (0°-30°)	634	13.5
BM (30°-60°)	1227	26.2
BH (60°-80°)	420	9.0
BVH (80°-90°)	29	0.6
UP LIGHT	53	1.1
UL (90°-100°)	20	0.4
UH (100°-180°)	34	0.7
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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