

Report No.: 1

Test Time: 29.01.2019 16:07

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 48LED 0,3A 40W 5000K

Lamp Description: LED

Luminous Width (mm): 80

Voltage: 220.5 V

Power: 38.98 W

Luminous Length (mm): 1500

Luminous Height (mm): 70

Current: 0.181 A

Power Factor: 0.973

Photometric Results

CIE Class: Direct

Measurement Flux: 5663.2 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.3, 153.2, 153.4, 153.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.1, 116.2, 112.6, 112.5

Luminaire Efficacy Rating (LER): 145.34

Max. Intensity: 1956.02 cd

S/MH(C0/C180): 1.30

Total Rated Lamp Lumens: 5663.2 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1948.67 cd

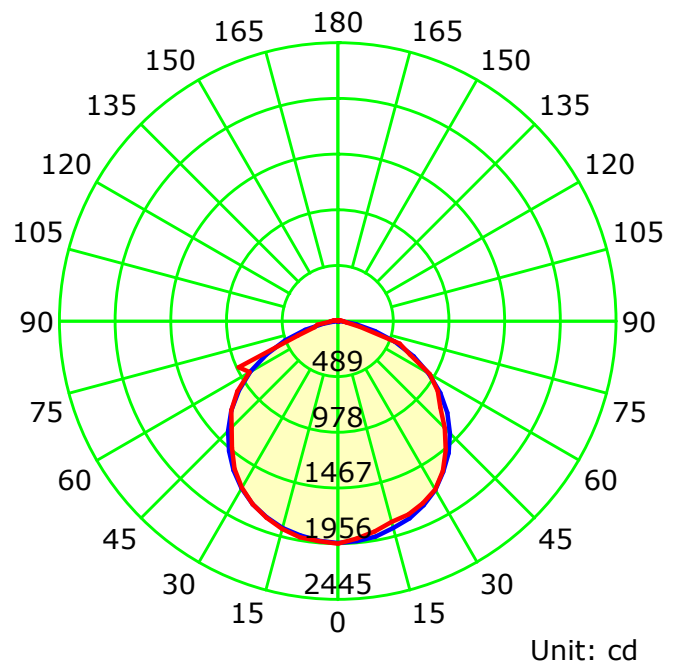
Pos of Max. Intensity: H157.5 V0

S/MH(C90/C270): 1.29

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

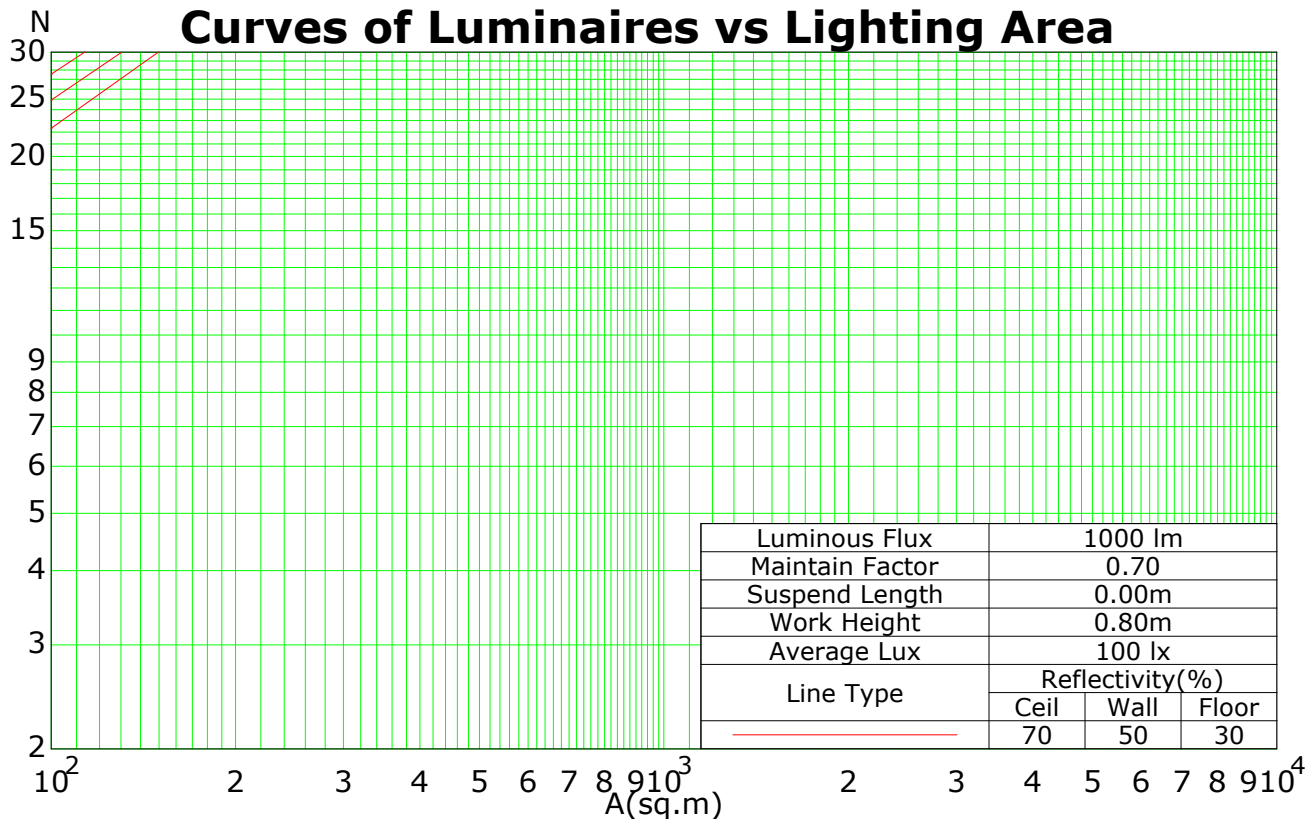
Humidity:

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	105	105	105	101	101	101	99
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	89	87	86	83
2	99	91	84	79	96	89	83	78	85	80	76	82	77	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	47	74	62	53	47	60	52	47	57	51	46	55	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	50	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	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	26
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

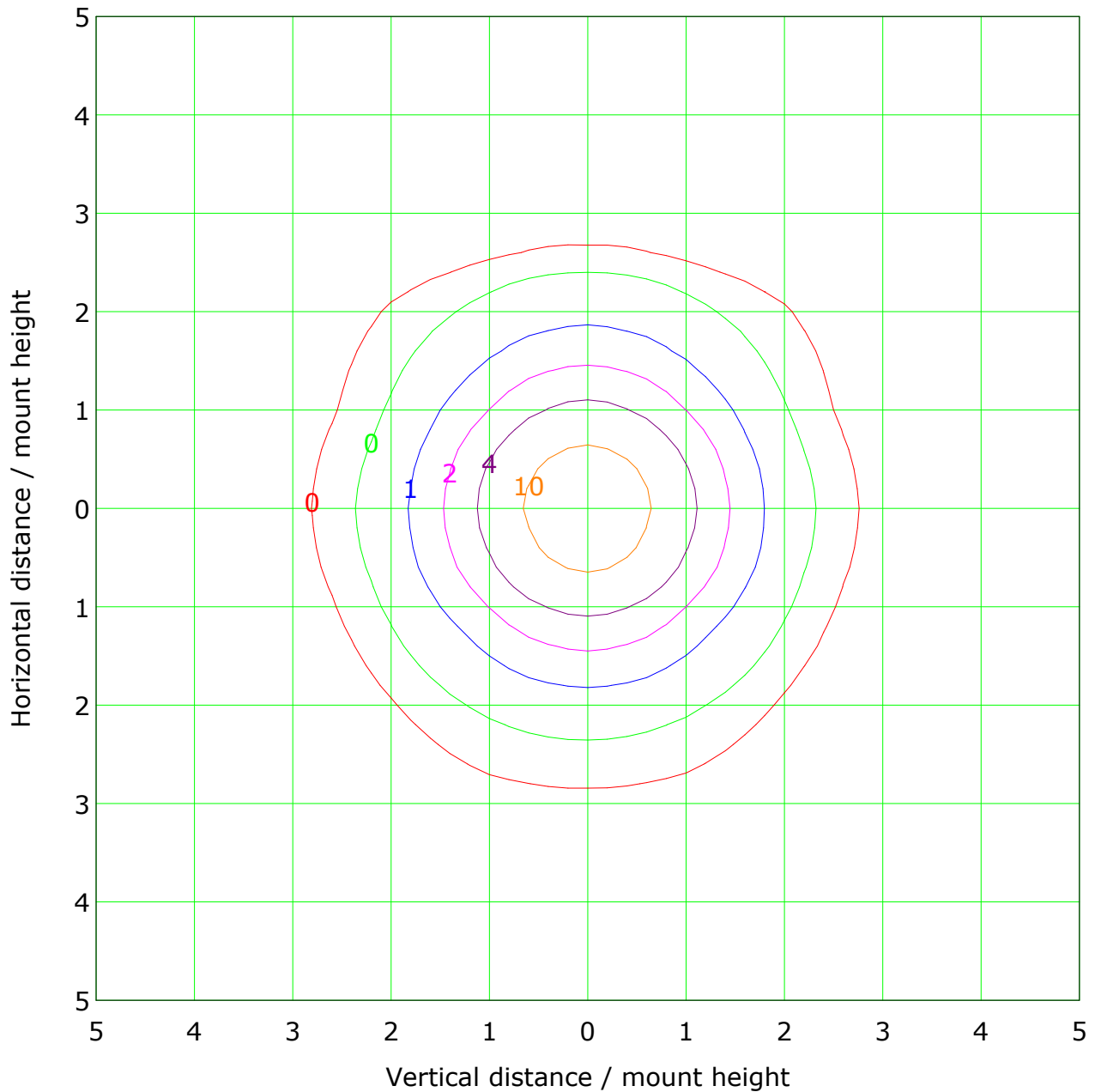
Spacing Criteria (0-180): 1.30
 Spacing Criteria (90-270): 1.29
 Spacing Criteria (Diagonal): 1.40



C Plane (°):0.0-360.0: 22.5
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 Test Device: LSG-1800B
 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 19.6 lx

(1%): 0.2 lx	(2%): 0.4 lx
(5%): 1.0 lx	(10%): 2.0 lx
(20%): 3.9 lx	(50%): 9.8 lx
(100%): 19.6 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

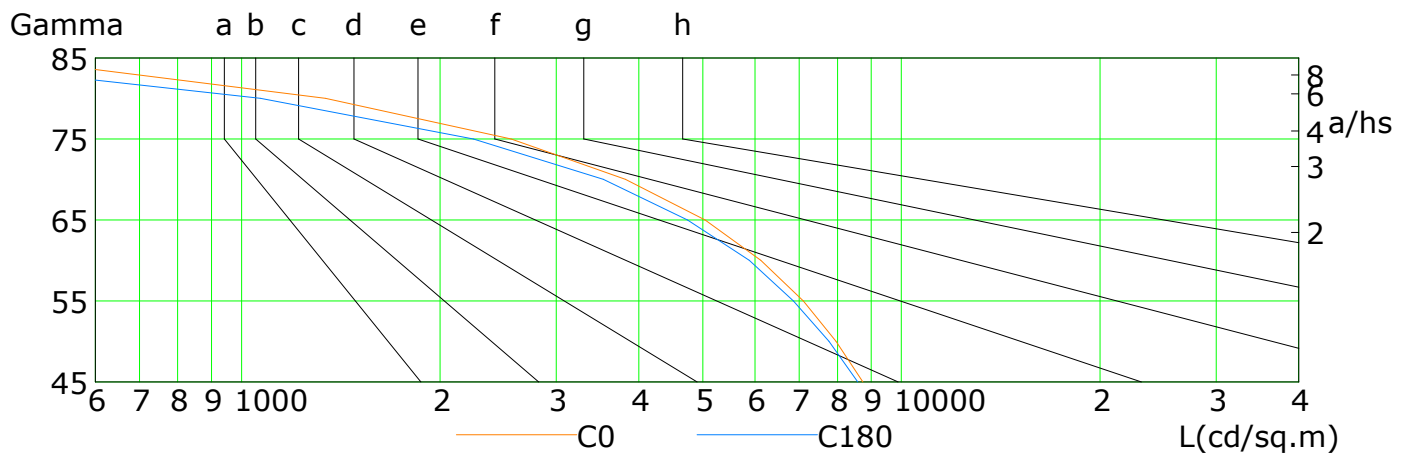
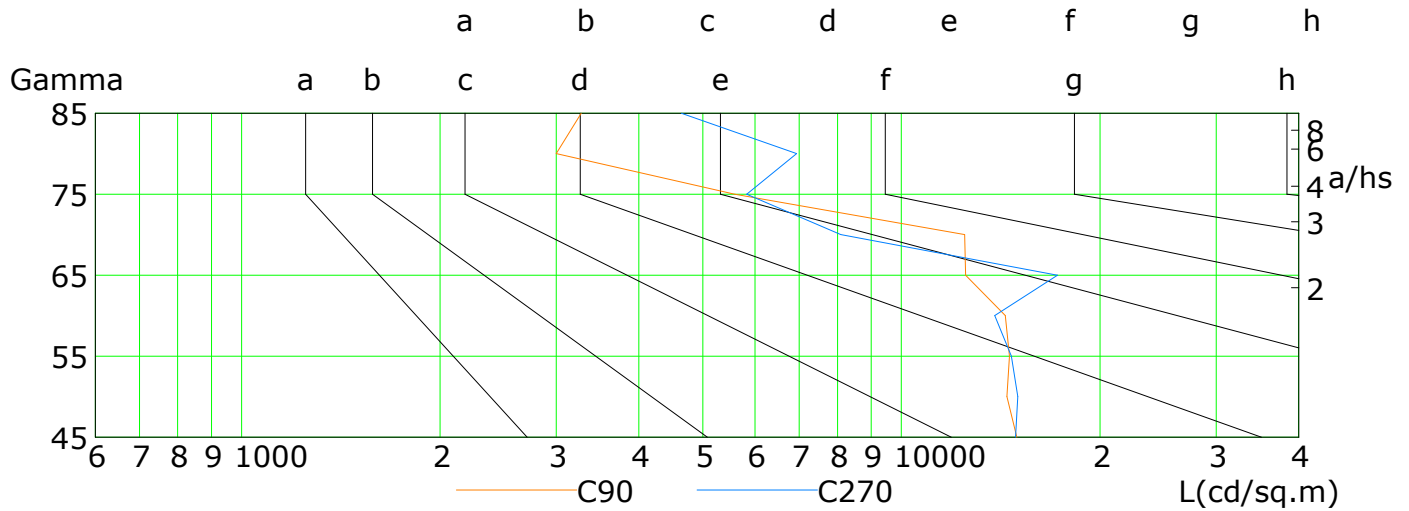
Distance: 12.654 m

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	8744	7963	7102	6125	5043	3815	2561	1340	439
C90	14968	14449	14581	14372	12514	12465	5592	2999	3273
C180	8587	7768	6857	5877	4743	3533	2245	1069	303
C270	14892	15015	14676	13854	17248	8097	5829	6935	4643

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Test Type: TYPE C

Temperature:

Operator:

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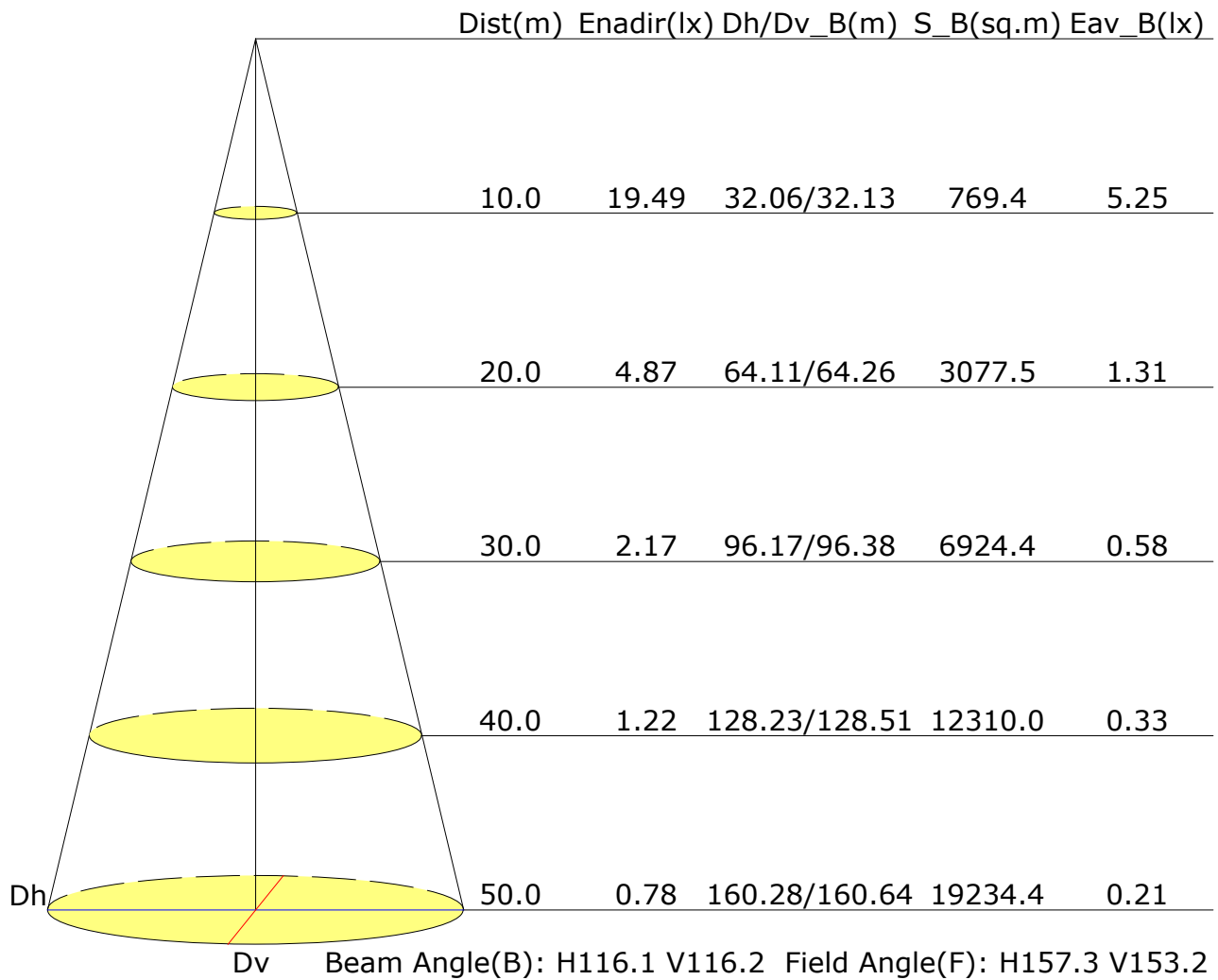
Test Device: LSG-1800B

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

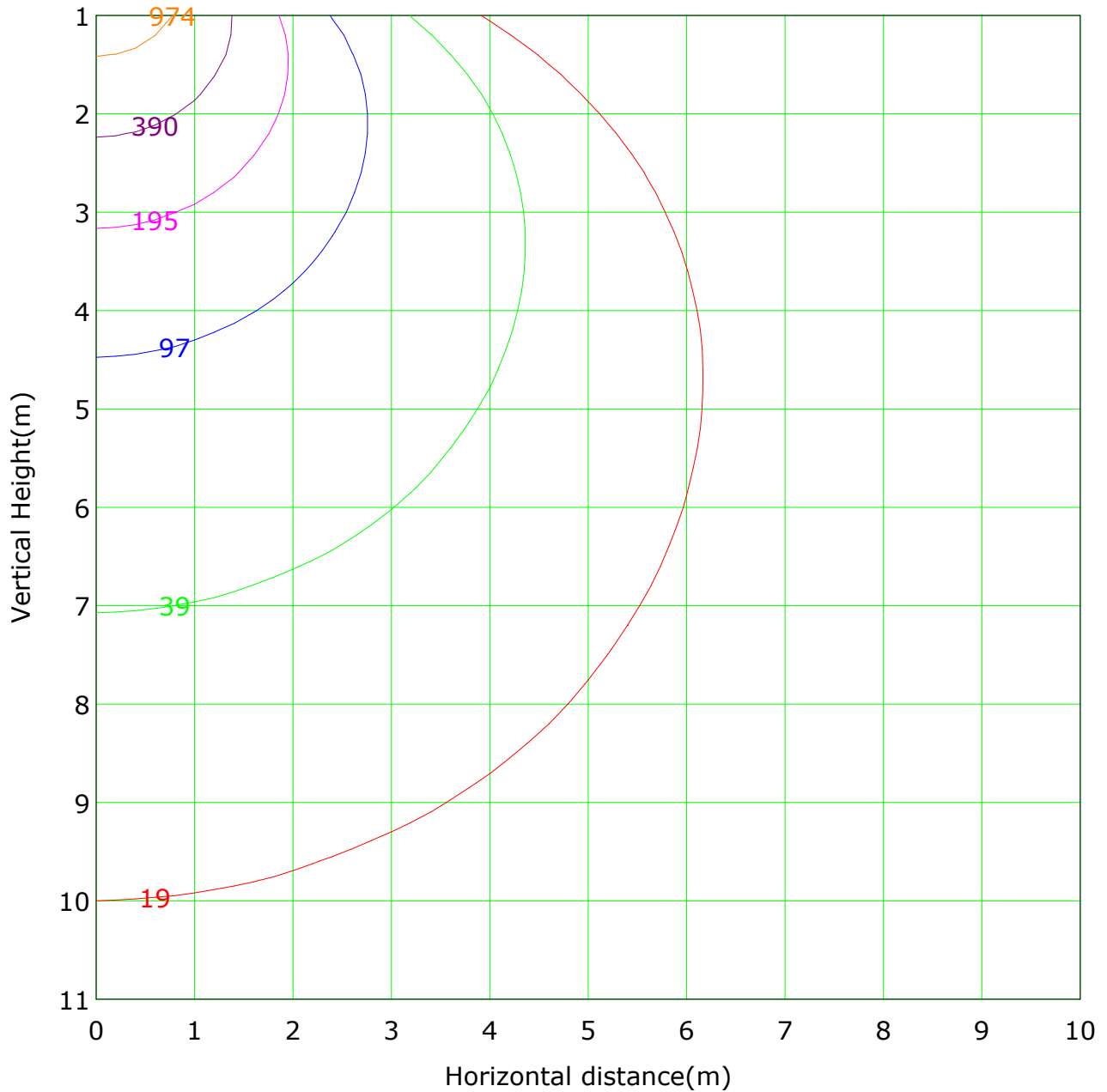
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1948.7 lx
— (1%): 19.5 lx — (2%): 39.0 lx
— (5%): 97.4 lx — (10%): 194.9 lx
— (20%): 389.7 lx — (50%): 974.3 lx
— (100%):1948.7 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	2786	49.2
FL (0°-30°)	755	13.3
FM (30°-60°)	1487	26.3
FH (60°-80°)	513	9.1
FVH (80°-90°)	31	0.6
BACK LIGHT	2804	49.5
BL (0°-30°)	768	13.6
BM (30°-60°)	1486	26.2
BH (60°-80°)	511	9.0
BVH (80°-90°)	38	0.7
UP LIGHT	73	1.3
UL (90°-100°)	26	0.5
UH (100°-180°)	47	0.8
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U2 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U2 G1

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