

Report No.: 1

Test Time: 14.11.2018 15:11

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 80 0,3A 32W 5000K F16048_LINNEA-UP

Lamp Description: LED

Luminous Width (mm): 80

Voltage: 221.0 V

Power: 28.97 W

Luminous Length (mm): 1500

Luminous Height (mm): 75

Current: 0.134 A

Power Factor: 0.976

Photometric Results

CIE Class: Direct

Measurement Flux: 4005.1 lm

Downward Ratio: 94%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.2, 179.1, 184.4, 184.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 102.5, 152.3, 151.4, 151.1

Luminaire Efficacy Rating (LER): 138.30

Max. Intensity: 1280.9 cd

S/MH(C0/C180): 1.17

Total Rated Lamp Lumens: 4005.1 lm

Efficiency: 100%

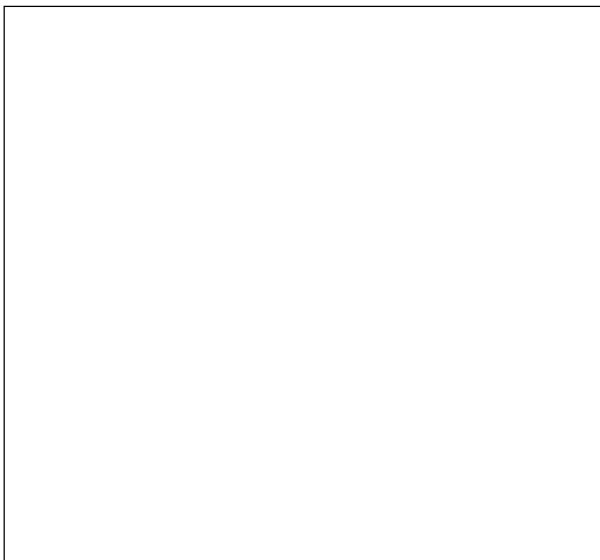
Upward Ratio: 6%

Central Intensity: 874.32 cd

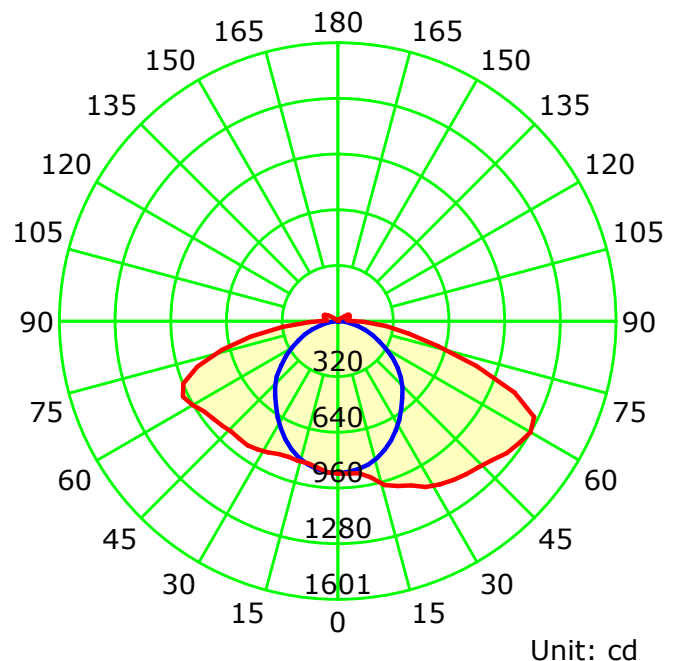
Pos of Max. Intensity: H90 V60

S/MH(C90/C270): 1.74

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:4.0

Test Device: LSG-1800B

Distance: 12.654 m

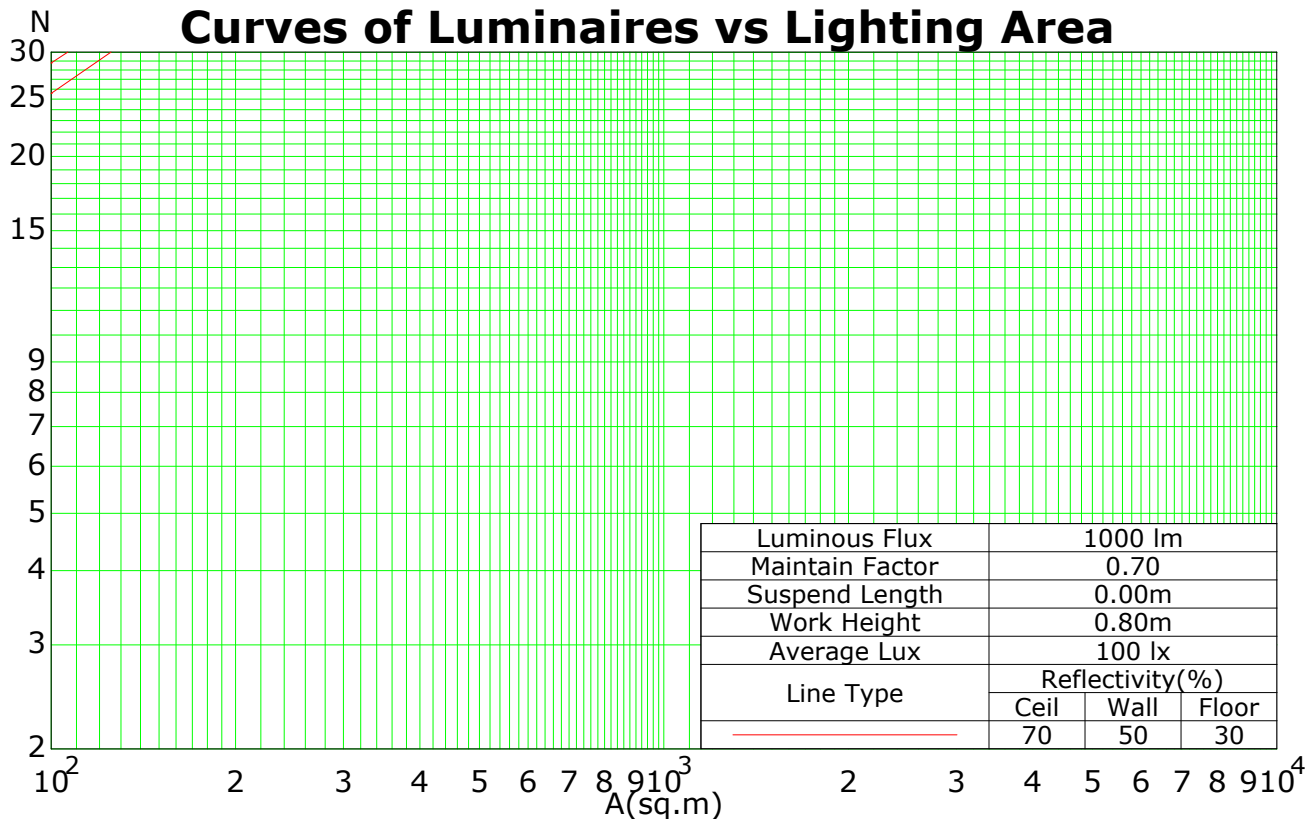
Humidity:

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	97	97	97	95
1	105	99	94	89	101	96	91	87	91	87	83	86	82	79	81	79	76	73
2	94	84	76	69	90	81	74	68	77	71	65	73	67	63	69	64	61	58
3	84	72	63	55	81	70	61	54	66	59	53	62	56	51	59	54	49	47
4	76	63	53	45	73	61	52	45	58	50	44	55	48	42	52	46	41	38
5	70	55	46	38	67	54	45	38	51	43	37	48	41	36	46	40	35	32
6	64	49	40	33	62	48	39	32	46	38	32	43	36	31	41	35	30	28
7	59	45	35	28	57	43	34	28	41	33	27	39	32	27	37	31	26	24
8	55	40	31	25	53	39	31	25	38	30	24	36	29	24	34	28	23	21
9	51	37	28	22	49	36	28	22	34	27	22	33	26	21	31	25	21	19
10	48	34	25	20	46	33	25	20	32	24	19	30	24	19	29	23	19	17

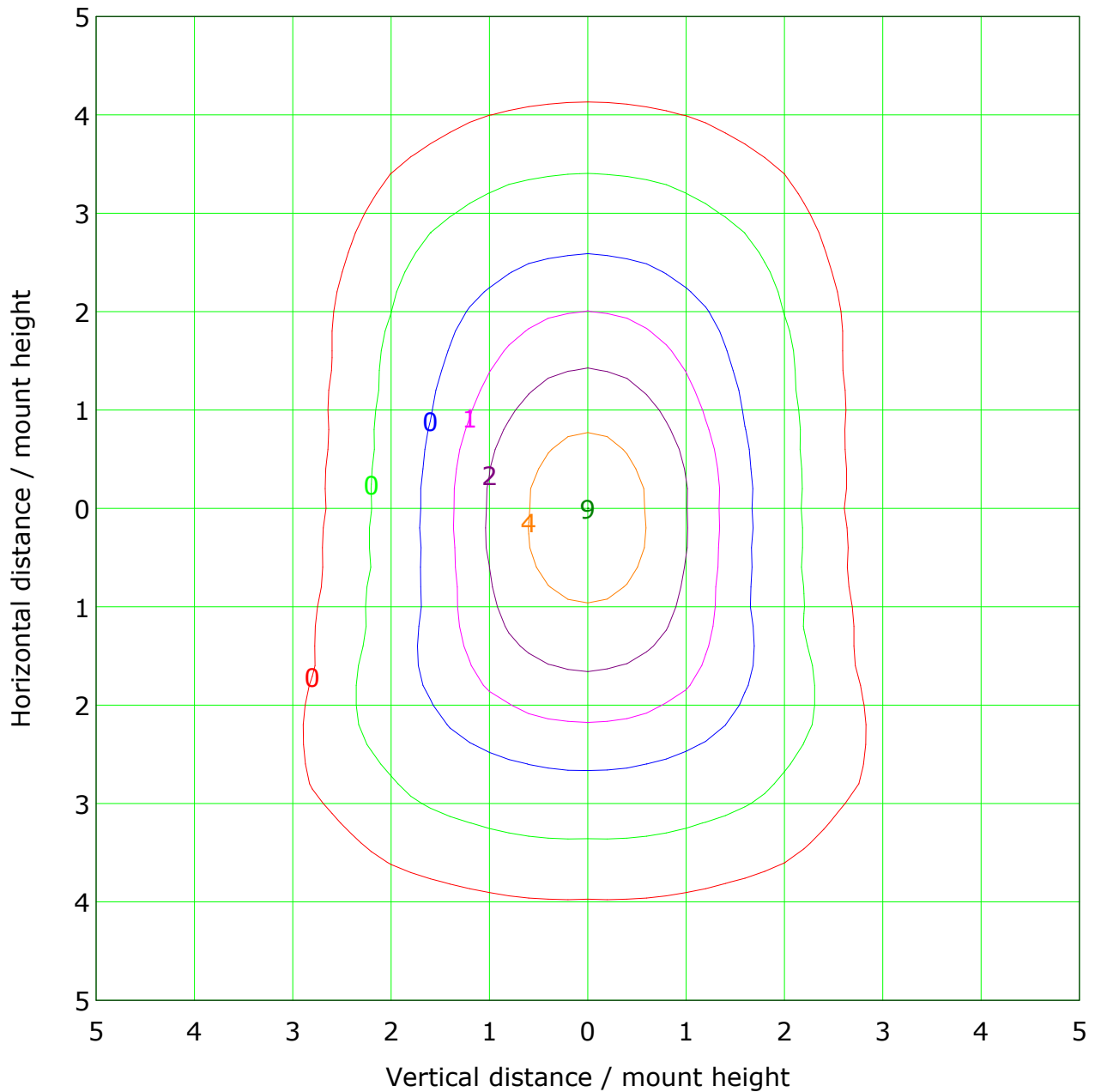
Spacing Criteria (0-180): 1.17
 Spacing Criteria (90-270): 1.74
 Spacing Criteria (Diagonal): 1.57



C Plane (°):0.0-360.0: 15.0
 Test Lab:
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 Temperature:
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Gamma Plane (°):0.0-180.0:4.0
 Test Device: LSG-1800B
 Distance: 12.654 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 8.8 lx

(1%): 0.1 lx	(2%): 0.2 lx
(5%): 0.4 lx	(10%): 0.9 lx
(20%): 1.8 lx	(50%): 4.4 lx
(100%): 8.8 lx	

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:4.0

Test Device: LSG-1800B

Distance: 12.654 m

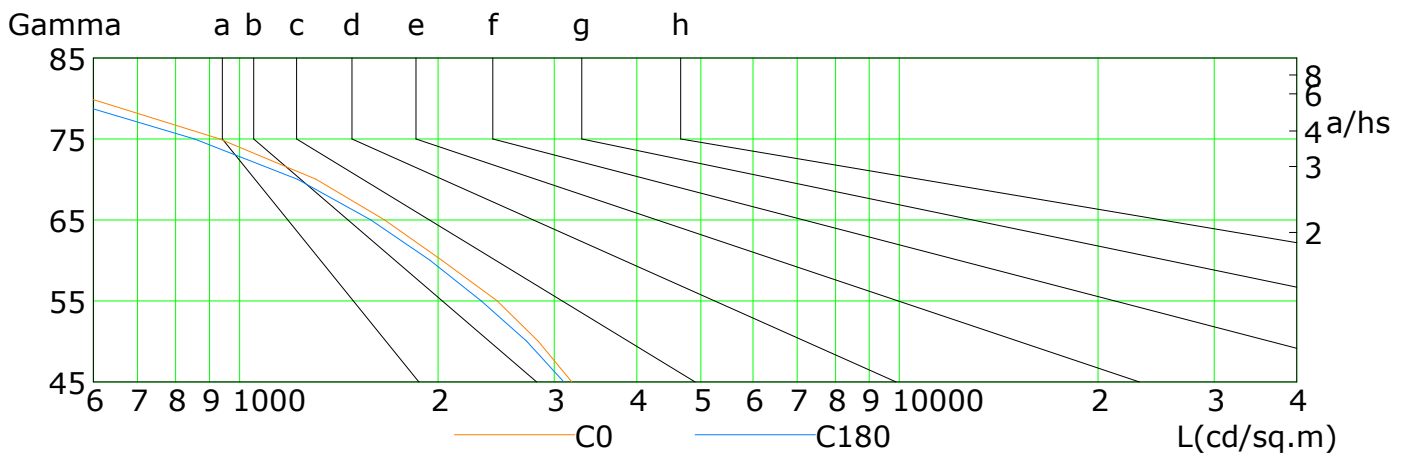
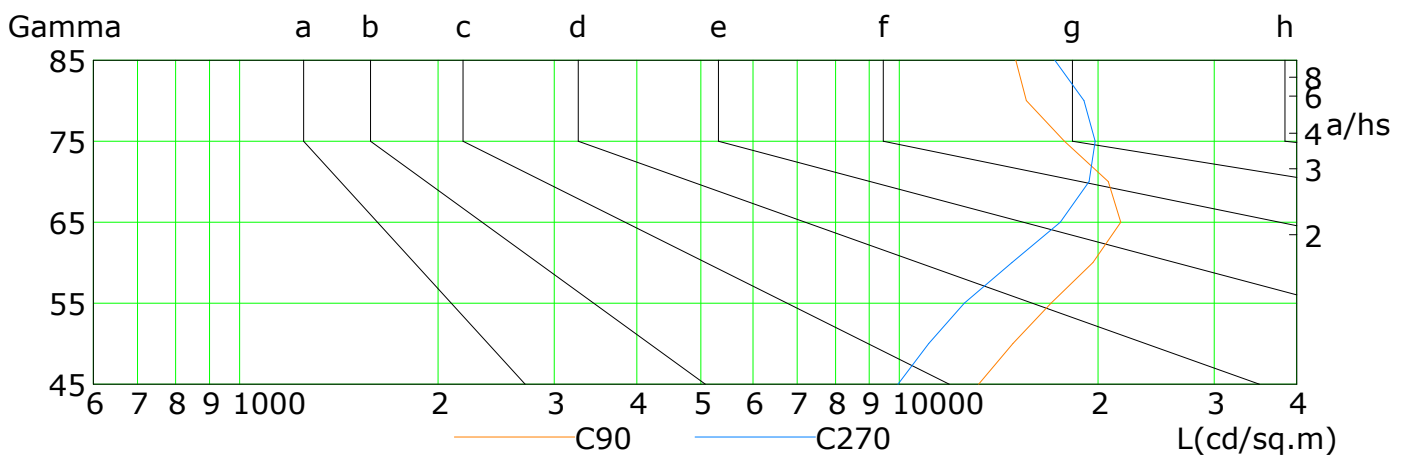
Humidity:

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	3189	2836	2459	2025	1658	1307	934	592	309
C90	13181	14858	16964	19647	21659	20731	17790	15572	15017
C180	3101	2723	2324	1945	1581	1224	854	530	256
C270	9955	11072	12535	14808	17525	19387	19805	19038	17211

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:4.0

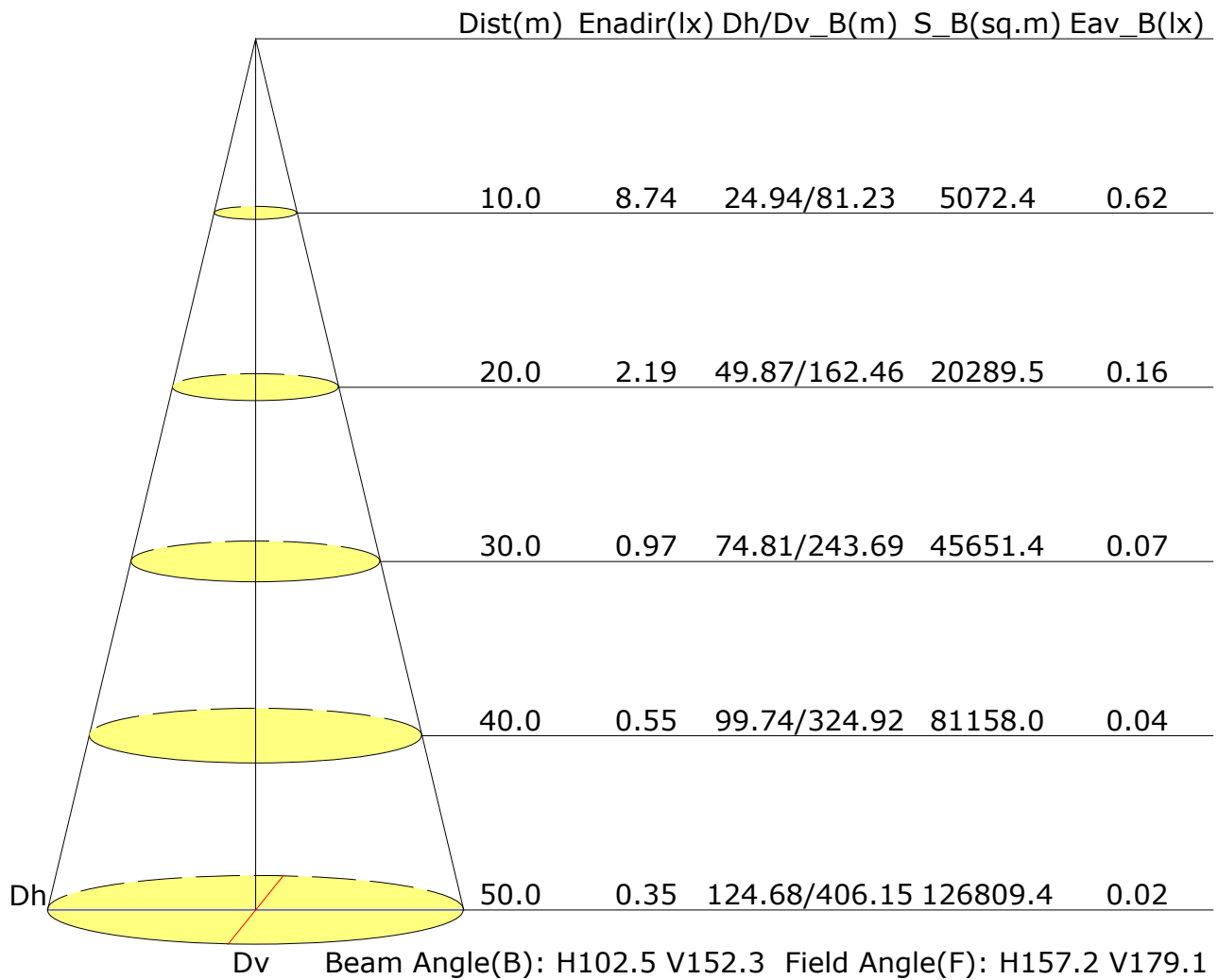
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:4.0

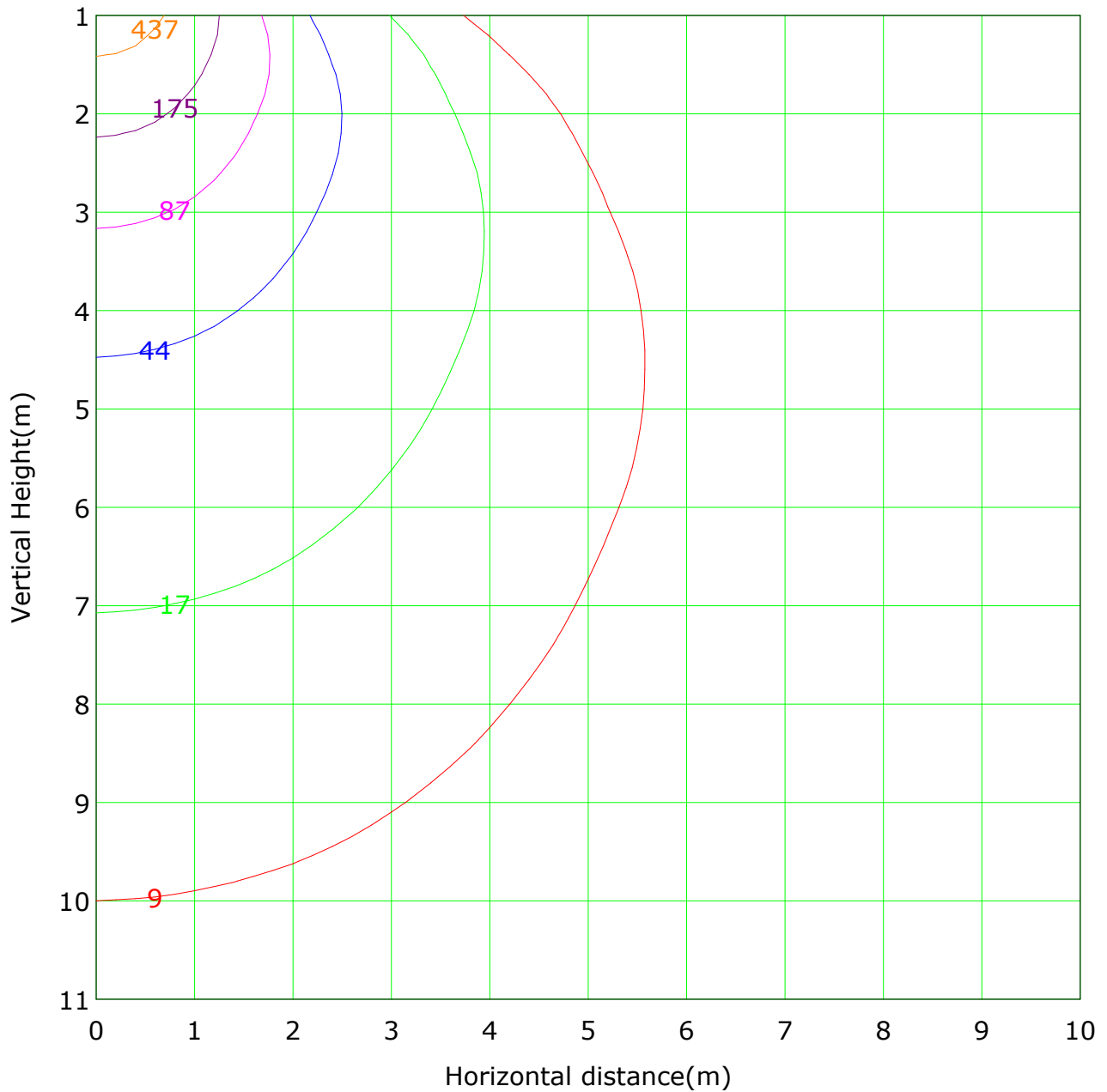
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 874.3 lx

(1%): 8.7 lx	(2%): 17.5 lx
(5%): 43.7 lx	(10%): 87.4 lx
(20%): 174.9 lx	(50%): 437.2 lx
(100%): 874.3 lx	

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

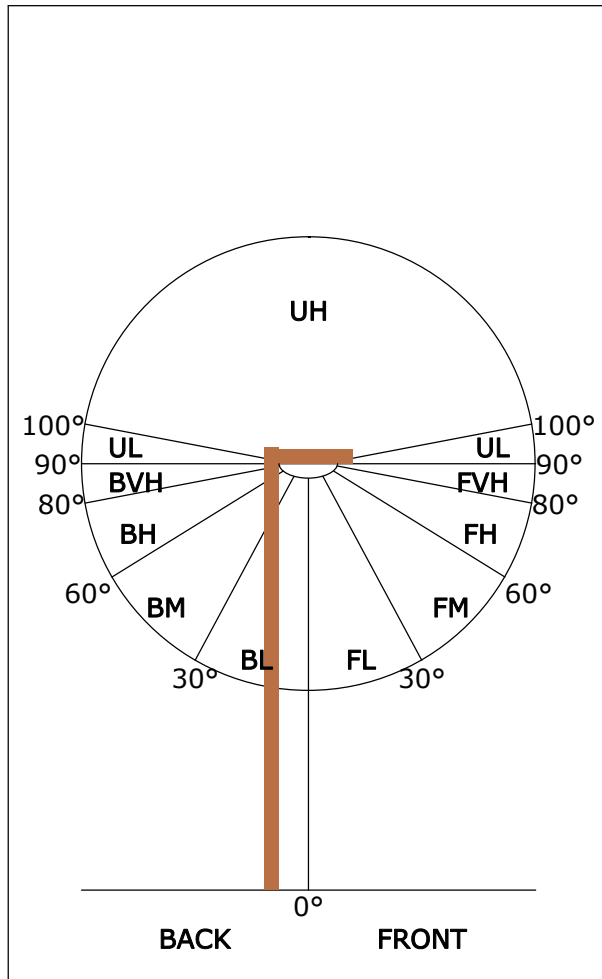
Gamma Plane (°):0.0-180.0:4.0

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	2131	53.2
FL (0°-30°)	428	10.7
FM (30°-60°)	962	24.0
FH (60°-80°)	619	15.4
FVH (80°-90°)	122	3.1
BACK LIGHT	1789	44.7
BL (0°-30°)	384	9.6
BM (30°-60°)	786	19.6
BH (60°-80°)	505	12.6
BVH (80°-90°)	114	2.8
UP LIGHT	203	5.1
UL (90°-100°)	66	1.6
UH (100°-180°)	137	3.4
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U3 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U3 G1

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Gamma Plane (°):0.0-180.0:4.0

Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector: