

Report No.: 1

Test Time: 03.11.2018 15:43

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 80 60LED 0,30A 32W 5000K 60 degrees F15524

Lamp Description: LED

Luminous Width (mm): 80

Voltage: 221.1 V

Power: 29.01 W

Luminous Length (mm): 1500

Luminous Height (mm): 75

Current: 0.134 A

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Measurement Flux: 3996.2 lm

Downward Ratio: 97%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 136.3, 93.5, 109.9, 111.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 94.6, 53.7, 62.5, 63.5

Luminaire Efficacy Rating (LER): 137.80

Max. Intensity: 2671.35 cd

S/MH(C0/C180): 1.39

Total Rated Lamp Lumens: 3996.2 lm

Efficiency: 100%

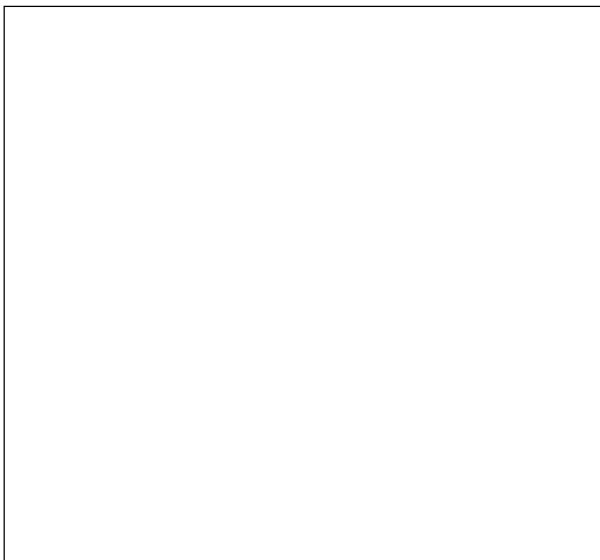
Upward Ratio: 3%

Central Intensity: 2602.2 cd

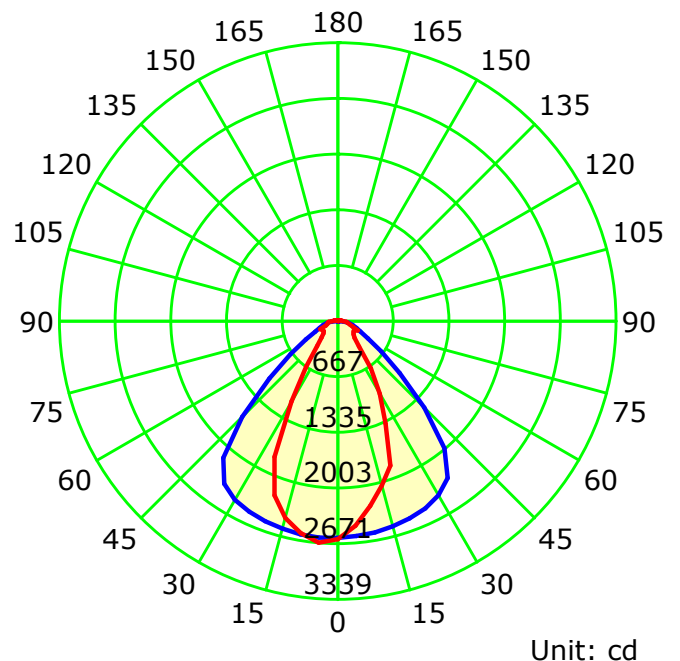
Pos of Max. Intensity: H247.5 V5

S/MH(C90/C270): 0.88

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

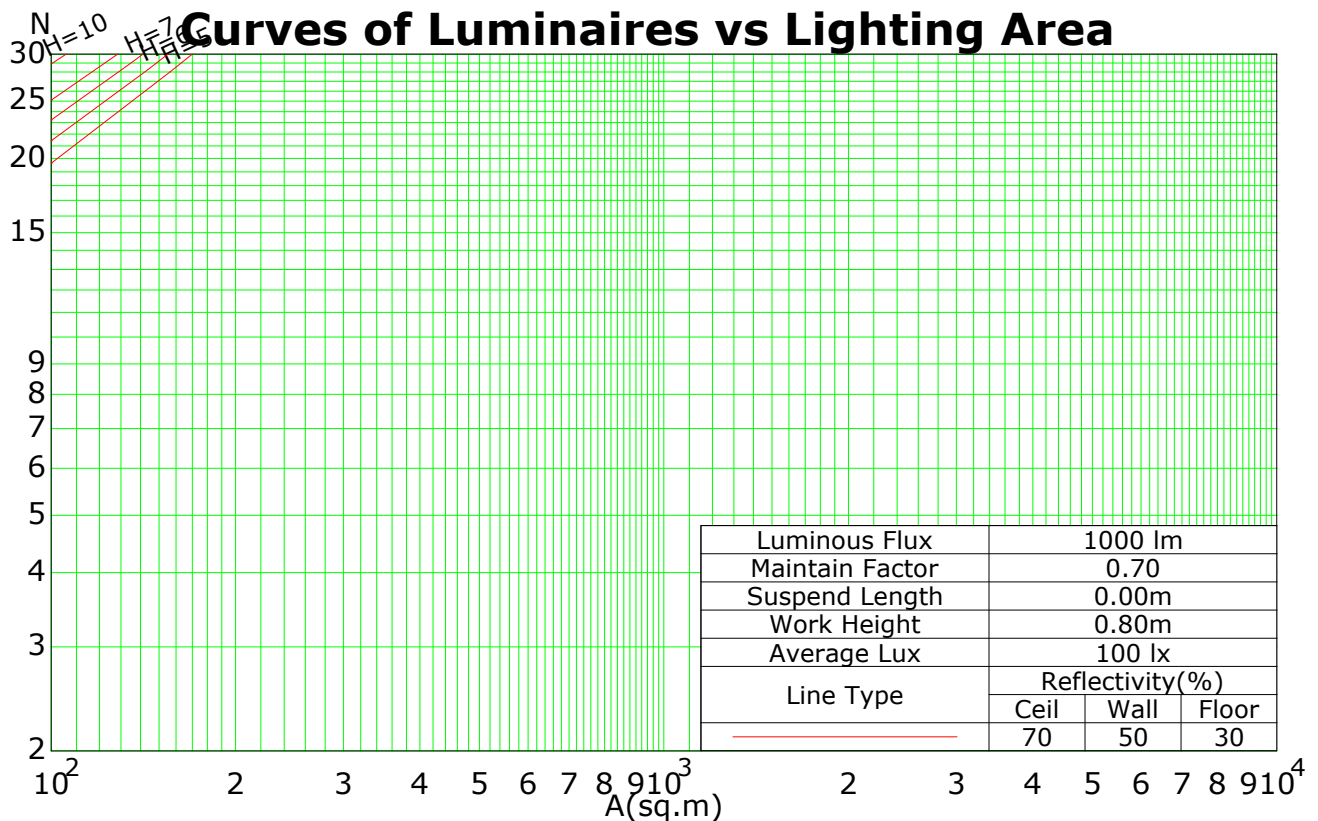
Humidity:

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	110	106	102	99	107	103	100	97	98	96	93	94	92	90	90	88	87	84
2	102	95	89	84	99	93	88	83	89	85	81	85	82	79	82	79	76	74
3	95	86	79	74	92	84	78	73	81	75	71	78	73	70	75	71	68	66
4	88	78	71	65	86	77	70	64	74	68	63	71	66	62	69	65	61	59
5	82	71	64	58	80	70	63	58	68	62	57	66	60	56	64	59	55	53
6	77	66	58	53	75	65	58	52	63	56	52	61	55	51	59	54	50	49
7	72	61	53	48	71	60	53	48	58	52	47	57	51	47	55	50	46	44
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	51	46	43	41
9	64	53	45	40	63	52	45	40	51	44	40	49	44	40	48	43	39	38
10	61	49	42	37	59	48	42	37	47	41	37	46	41	37	45	40	37	35

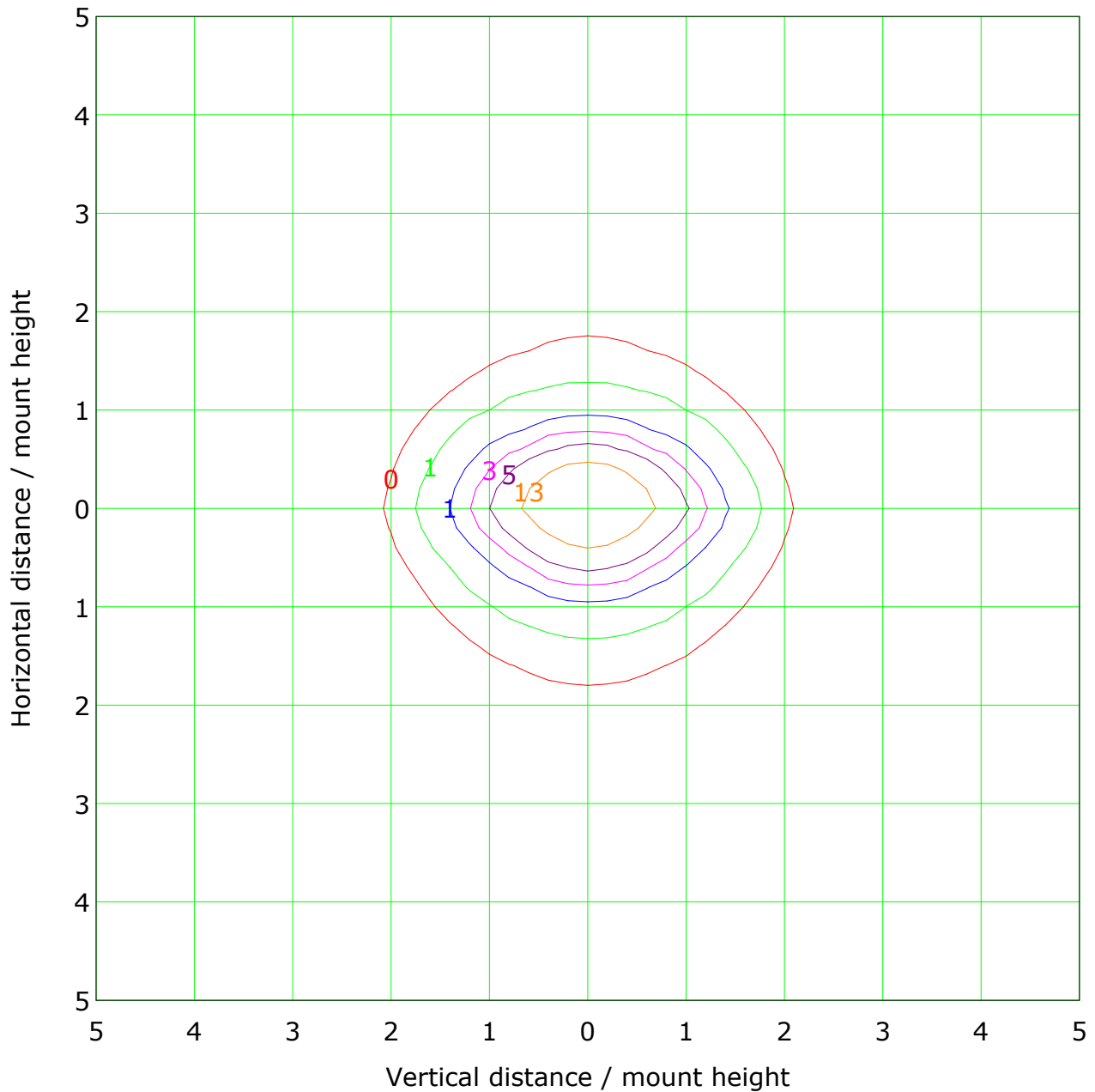
Spacing Criteria (0-180): 1.39
 Spacing Criteria (90-270): 0.88
 Spacing Criteria (Diagonal): 0.95



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%): 26.4 lx

(1%): 0.3 lx	(2%): 0.5 lx
(5%): 1.3 lx	(10%): 2.6 lx
(20%): 5.3 lx	(50%): 13.2 lx
(100%): 26.4 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

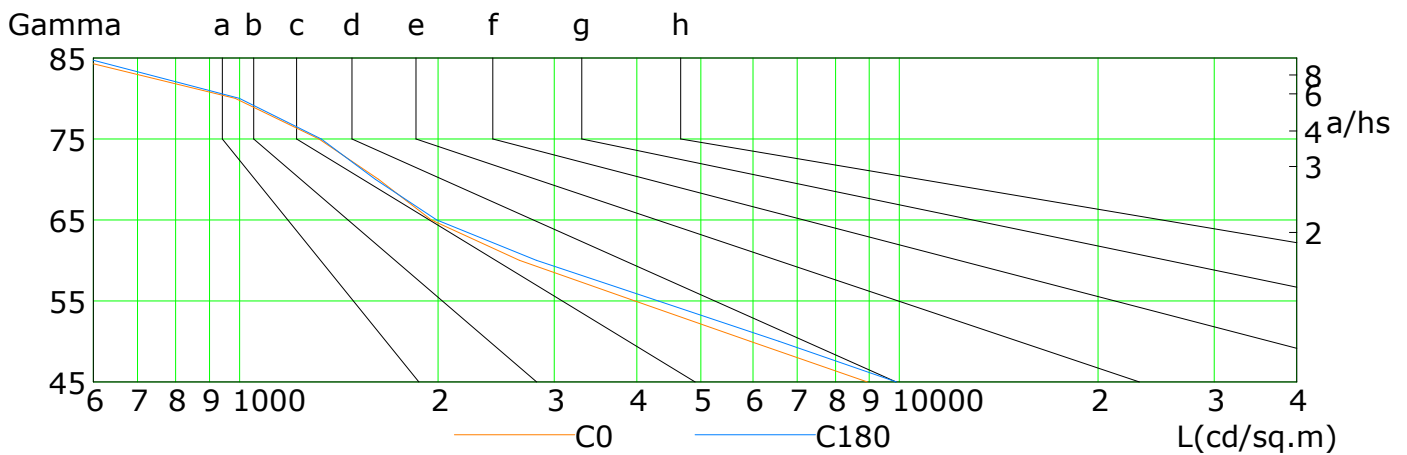
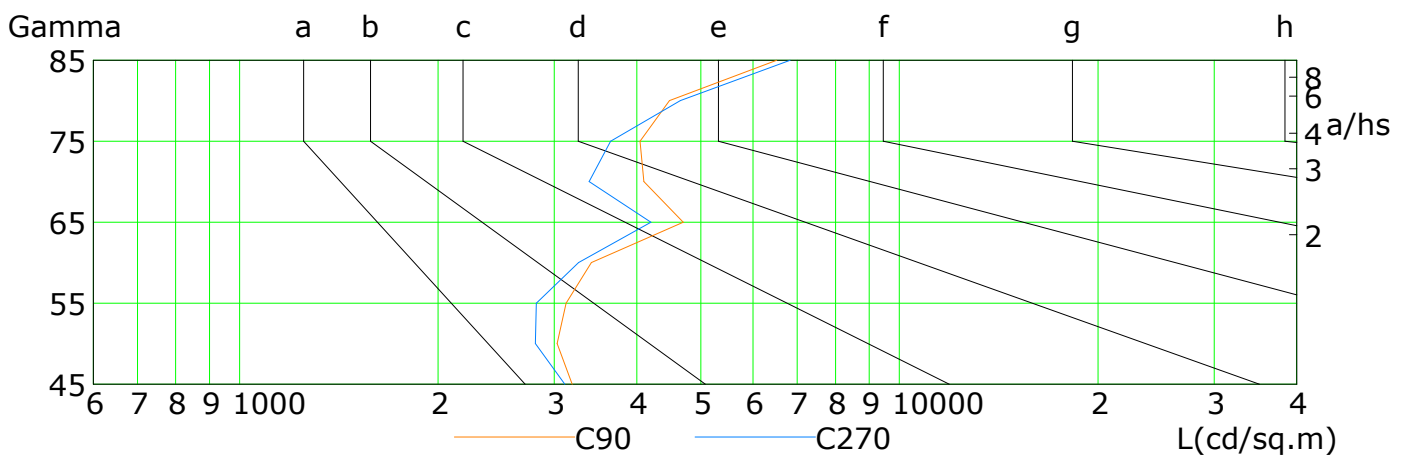
Humidity:

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	8942	5938	3973	2656	1952	1624	1319	985	553
C90	3194	3028	3124	3415	4704	4098	4044	4483	6518
C180	9892	6568	4312	2817	1991	1606	1329	999	584
C270	3111	2808	2817	3265	4202	3389	3649	4654	6831

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

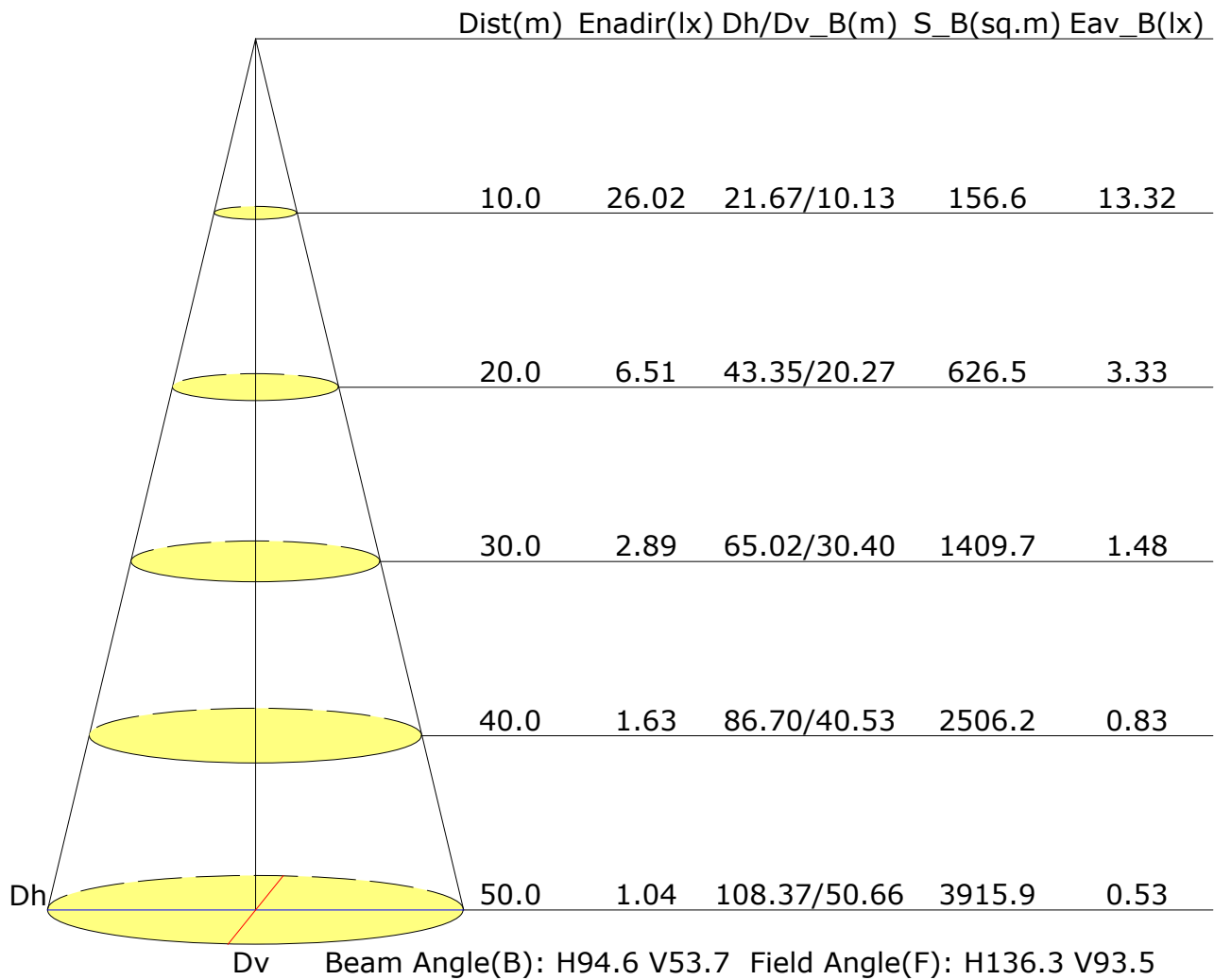
Test Device: LSG-1800B

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

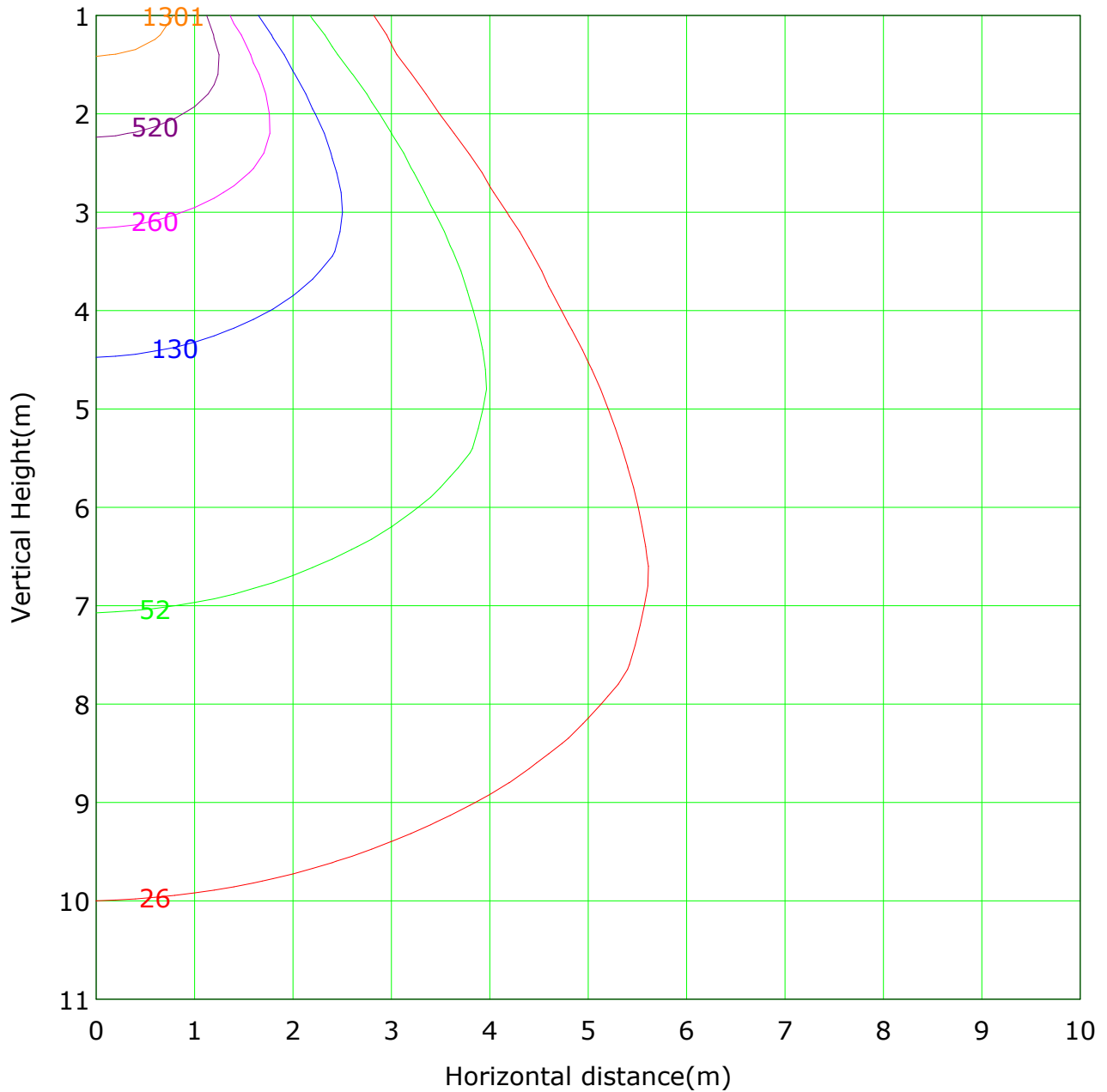
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2602.2 lx
— (1%): 26.0 lx — (2%): 52.0 lx
— (5%): 130.1 lx — (10%): 260.2 lx
— (20%): 520.4 lx — (50%): 1301.1 lx
— (100%): 2602.2 lx

C Plane (°): 0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

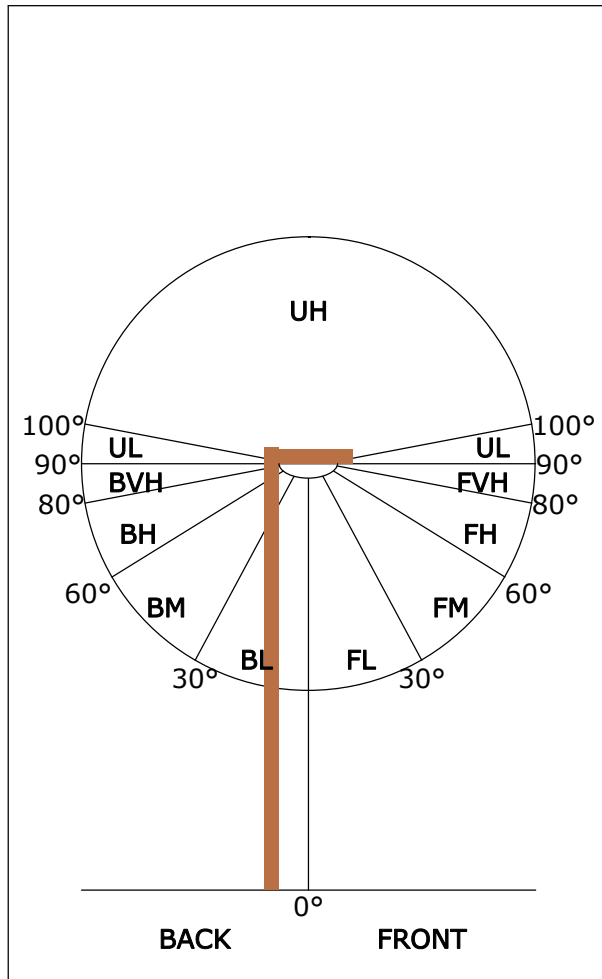
Gamma Plane (°): 0.0-180.0: 5.0

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	1831	45.8
FL (0°-30°)	846	21.2
FM (30°-60°)	739	18.5
FH (60°-80°)	201	5.0
FVH (80°-90°)	46	1.1
BACK LIGHT	2041	51.1
BL (0°-30°)	973	24.3
BM (30°-60°)	826	20.7
BH (60°-80°)	195	4.9
BVH (80°-90°)	47	1.2
UP LIGHT	124	3.1
UL (90°-100°)	40	1.0
UH (100°-180°)	84	2.1
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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