

Report No.: 1

Test Time: 11.05.2018 12:16

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 180 40LED 0,35A 44W 5000K

Lamp Description: LED

Luminous Width (mm): 180

Voltage: 231.2 V

Power: 43.95 W

Luminous Length (mm): 1200

Luminous Height (mm): 35

Current: 0.193 A

Power Factor: 0.980

Photometric Results

CIE Class: Direct

Measurement Flux: 5602.7 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.3, 162.4, 154.4, 154.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.7, 78.3, 77.1, 77.7

Luminaire Efficacy Rating (LER): 127.53

Max. Intensity: 2820.42 cd

S/MH(C0/C180): 1.15

Total Rated Lamp Lumens: 5602.7 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 2801.23 cd

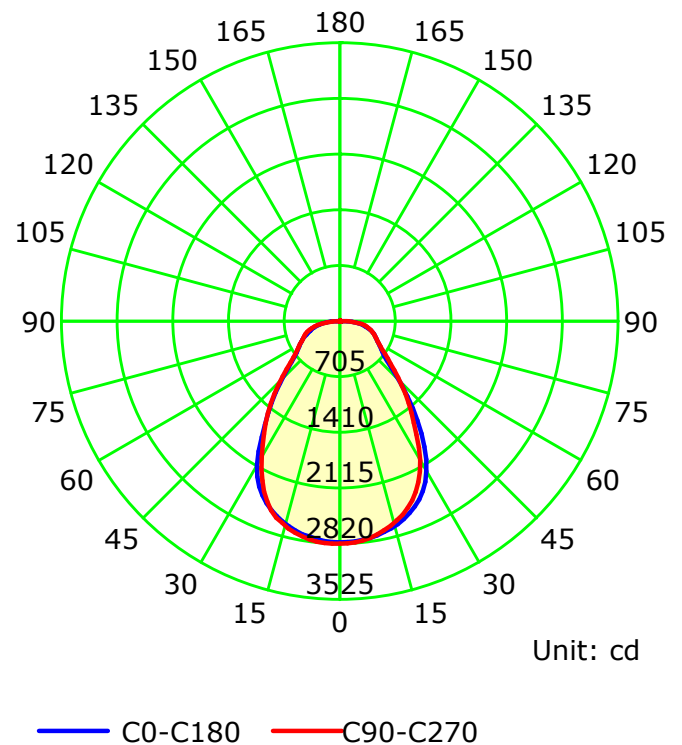
Pos of Max. Intensity: H270 V2

S/MH(C90/C270): 1.10

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

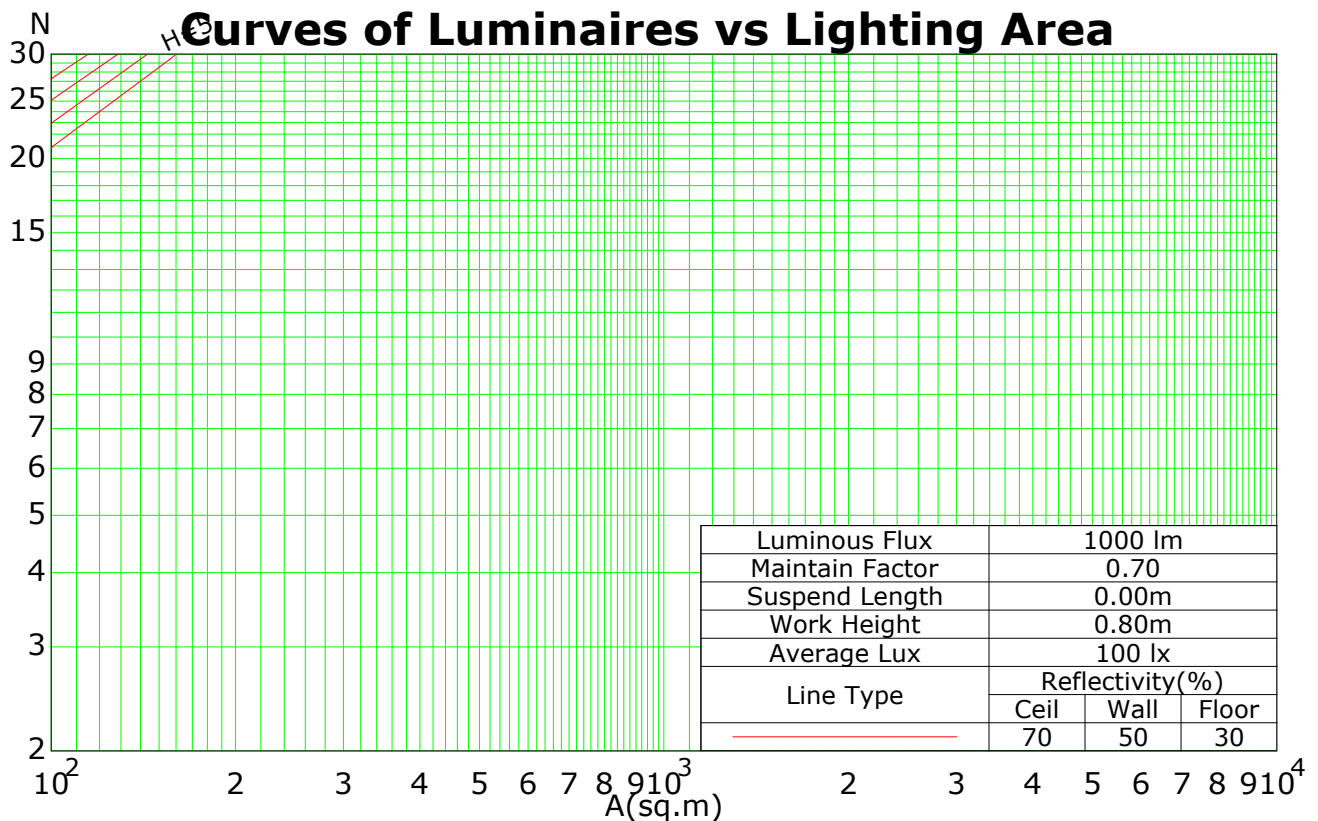
Humidity:

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	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	90	88	87	84
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	47	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

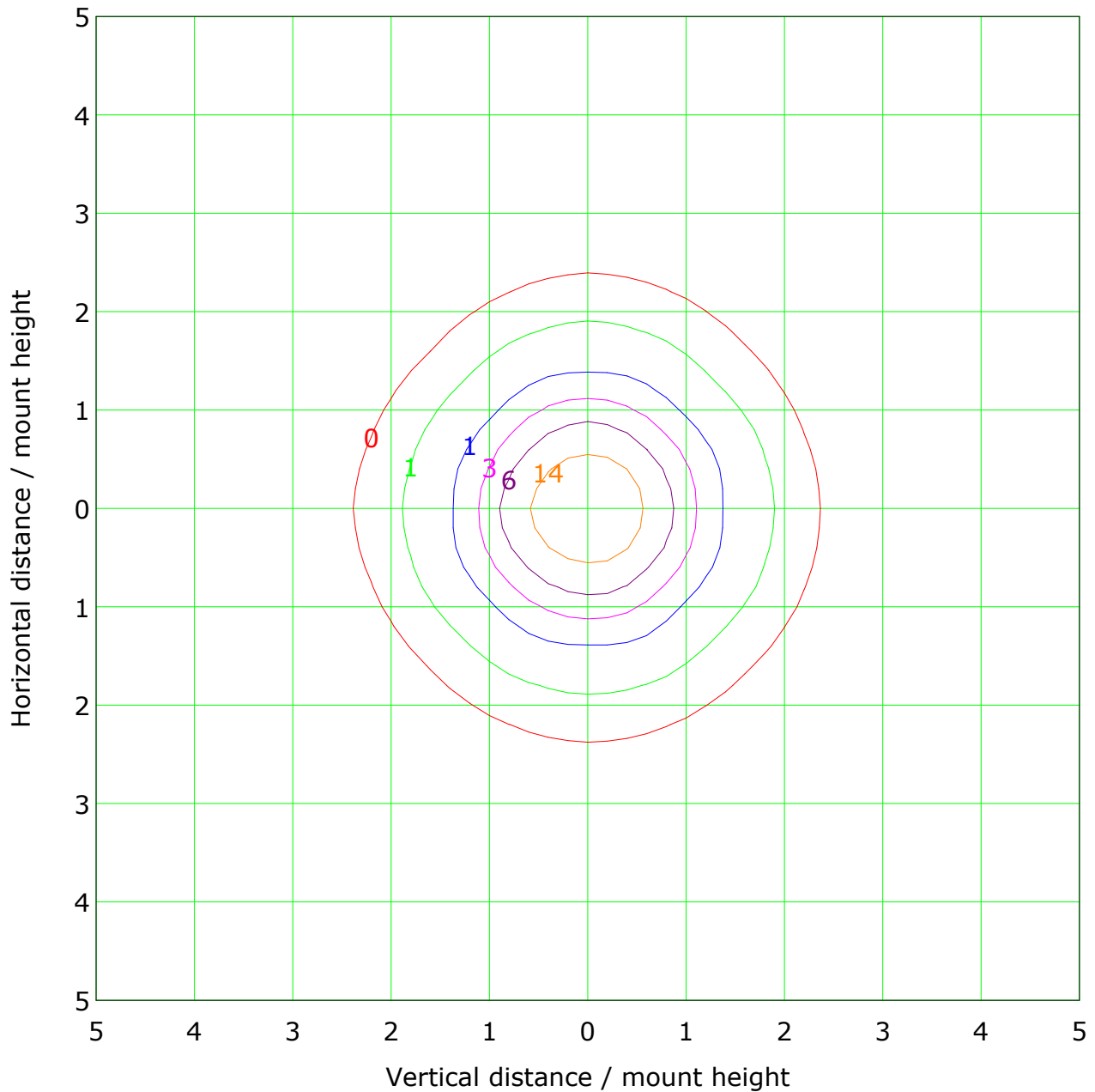
Spacing Criteria (0-180): 1.15
 Spacing Criteria (90-270): 1.10
 Spacing Criteria (Diagonal): 1.11



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IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 28.2 lx

(1%): 0.3 lx	(2%): 0.6 lx
(5%): 1.4 lx	(10%): 2.8 lx
(20%): 5.6 lx	(50%): 14.1 lx
(100%): 28.2 lx	

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

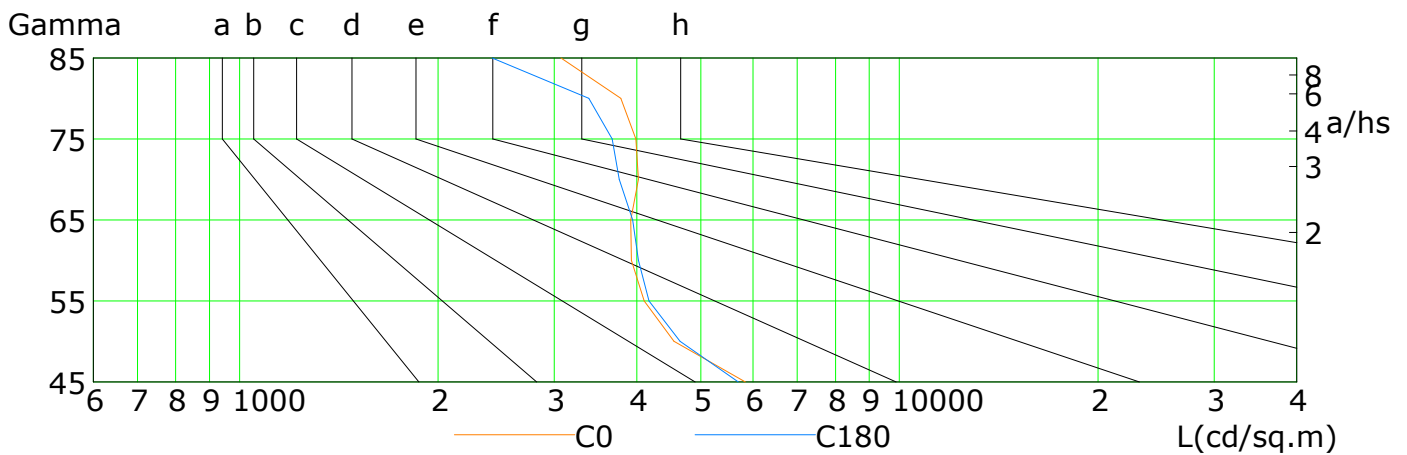
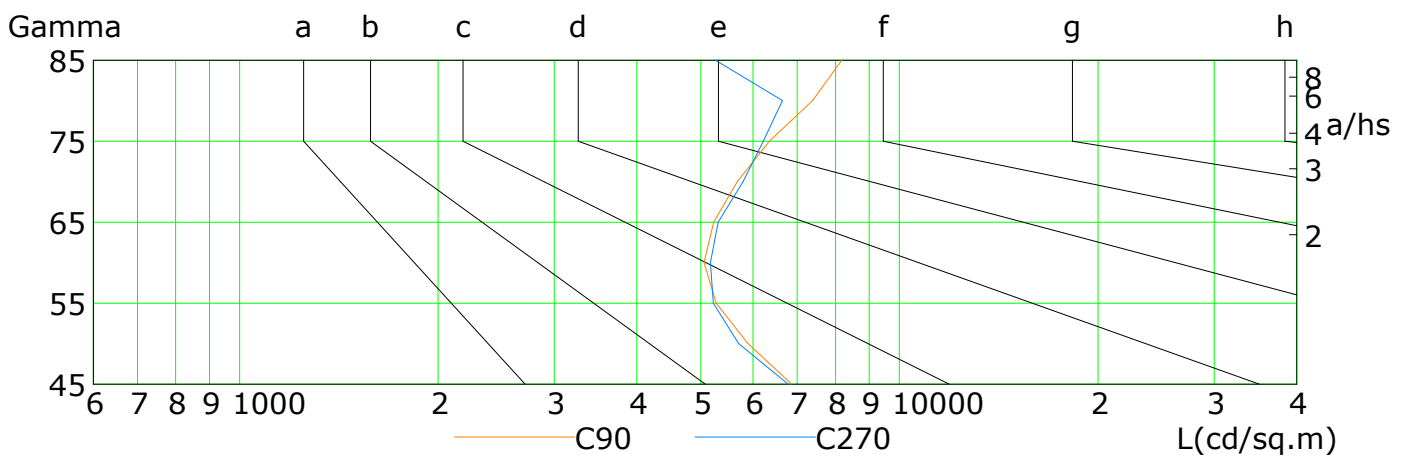
Humidity:

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	5840	4552	4103	3925	3915	4021	3988	3781	3069
C90	6867	5891	5276	5058	5229	5679	6351	7384	8173
C180	5699	4653	4172	4022	3942	3760	3668	3382	2414
C270	6786	5704	5222	5172	5315	5796	6216	6648	5263

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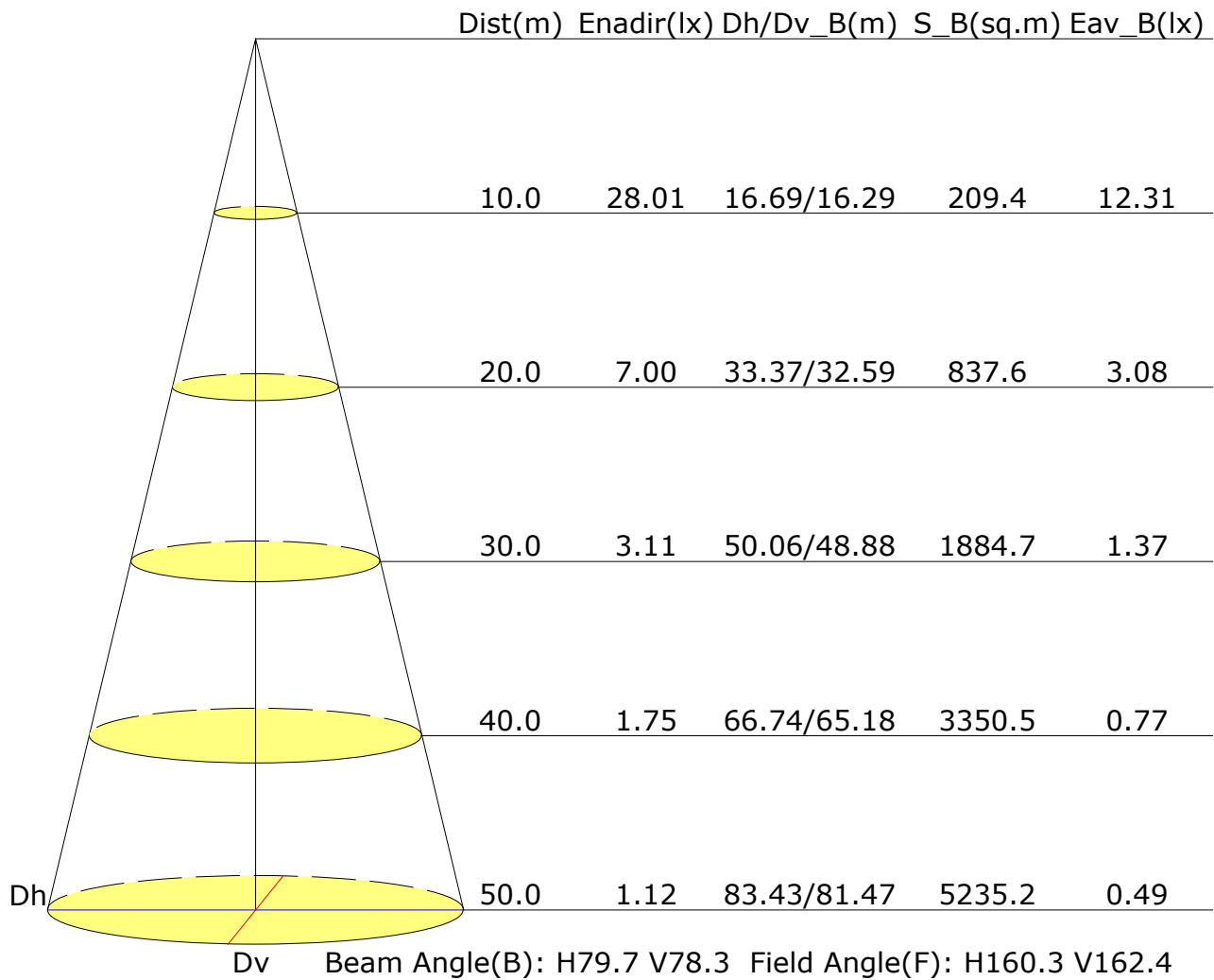
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

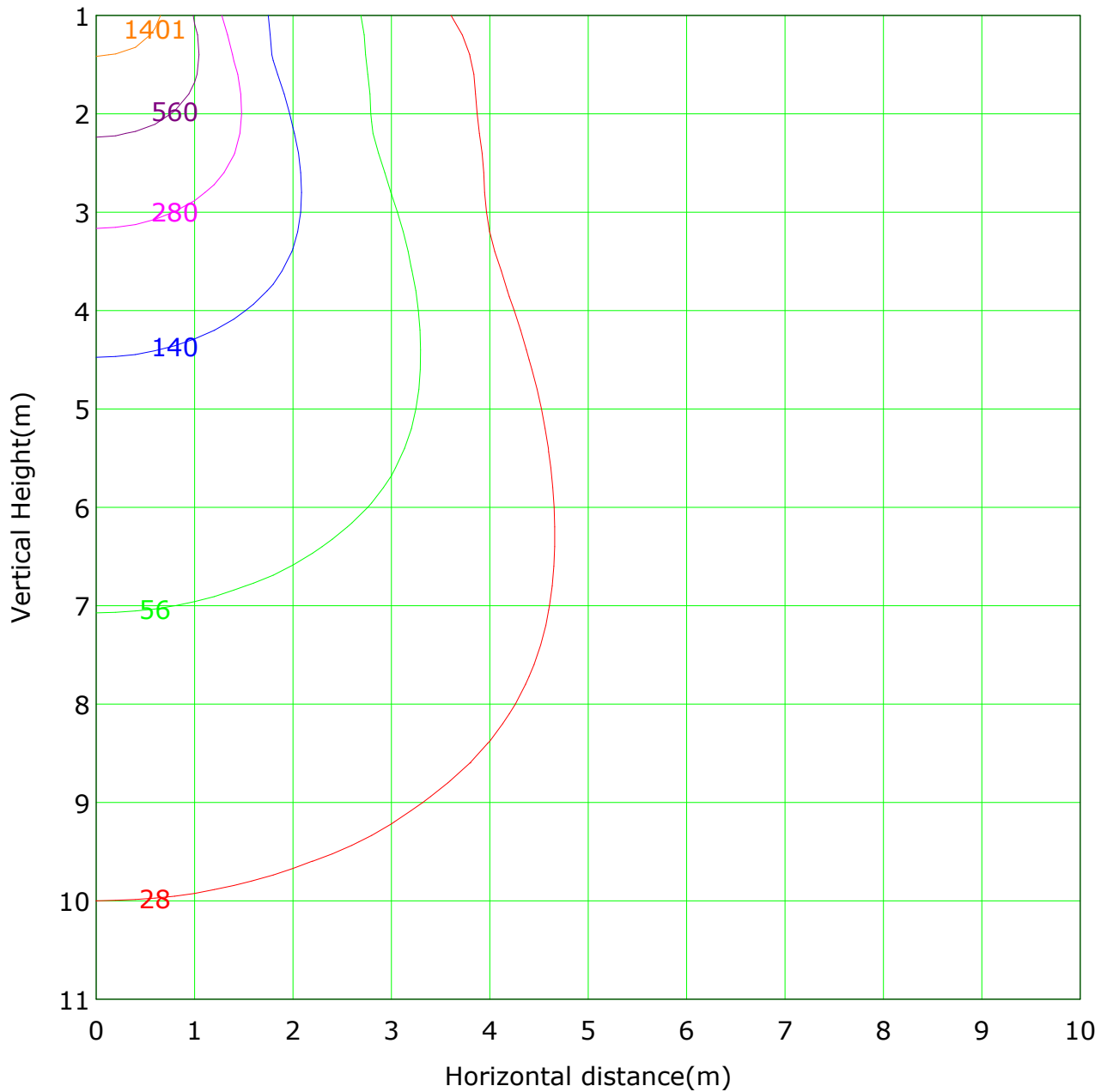
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2801.2 lx
— (1%): 28.0 lx — (2%): 56.0 lx
— (5%): 140.1 lx — (10%): 280.1 lx
— (20%): 560.2 lx — (50%): 1400.6 lx
— (100%): 2801.2 lx

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

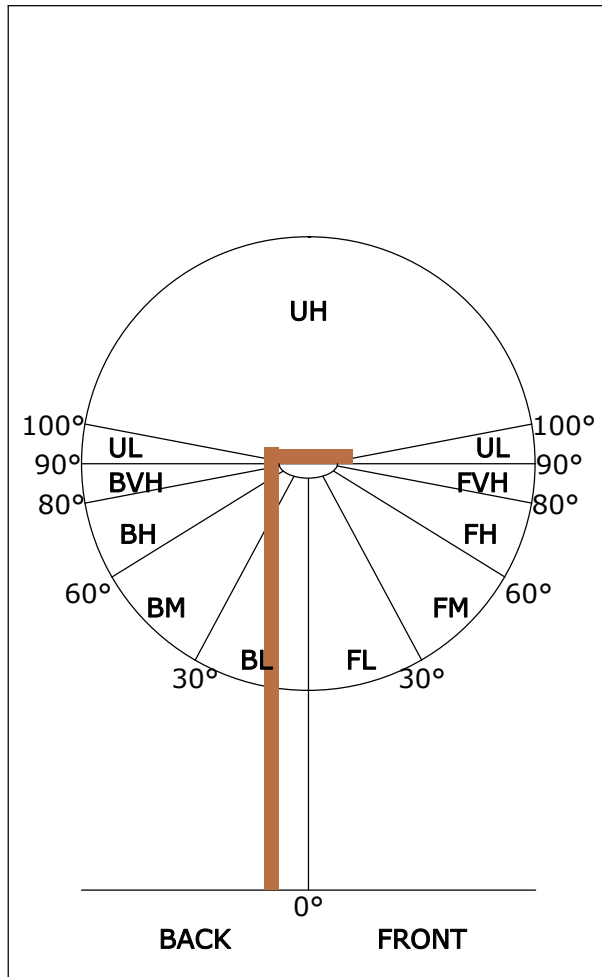
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Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2831	50.5
FL (0°-30°)	1047	18.7
FM (30°-60°)	1267	22.6
FH (60°-80°)	430	7.7
FVH (80°-90°)	87	1.5
BACK LIGHT	2753	49.1
BL (0°-30°)	1042	18.6
BM (30°-60°)	1226	21.9
BH (60°-80°)	418	7.5
BVH (80°-90°)	67	1.2
UP LIGHT	19	0.3
UL (90°-100°)	2	0.0
UH (100°-180°)	17	0.3
TRAPPED LIGHT	NA	NA

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

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