

Report No.: 10

Test Time: 2022-07-19 10:57

Luminaire Property

Luminaire Manufacturer: FARO
Luminaire Category: 71498N
Lamp Catalog:
Number of Lamps: 1
Luminous Length (mm): -55
Luminous Height (mm): 0
Current: 0.032 A
Power Factor: 0.432

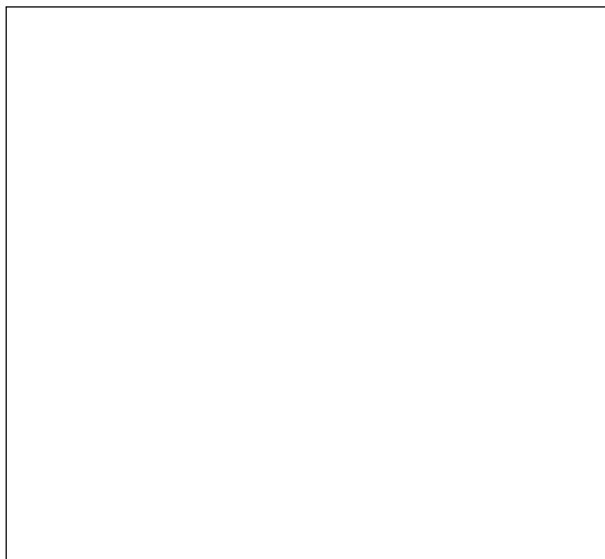
Luminaire Description: LED-18
Lamp Description:
Lumens per Lamp:
Luminous Width (mm): -55
Voltage: 230.4 V
Power: 3.22 W

Photometric Results

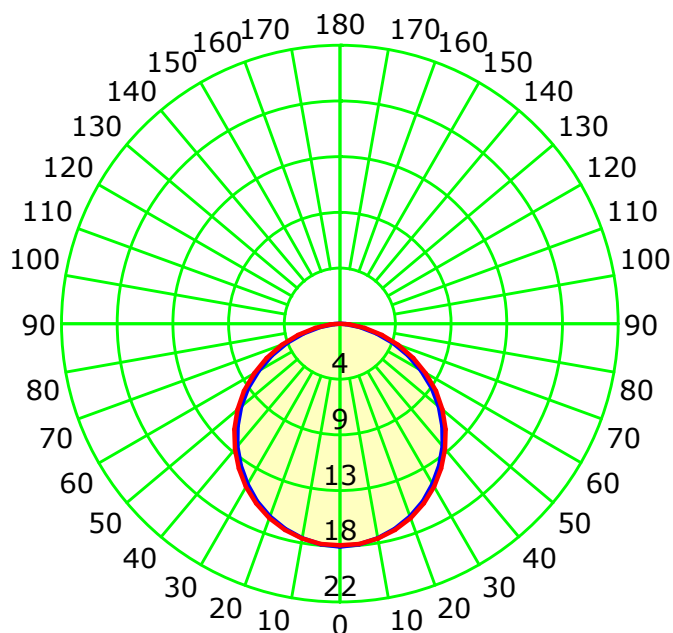
CIE Class: Direct
Measurement Flux: 51.4 lm
Downward Ratio: 100%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.9, 162.0, 160.9, 160.9
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.4, 113.6, 112.3, 112.3
Luminaire Efficacy Rating (LER): 16.00
Max. Intensity: 18.13 cd
S/MH(C0/C180): 1.24

Total Rated Lamp Lumens: 51.4 lm
Efficiency: 100%
Upward Ratio: 0%
C0r0 Intensity: 18.13 cd
Pos of Max. Intensity: H0 V0
S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-90.0: 15.0
Test Lab: FARO LAB
Test Type: TYPE C
Temperature: 25
Operator: Sergio Feria

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 8.826 m [K=1.0000]
Humidity: 60%
Inspector:

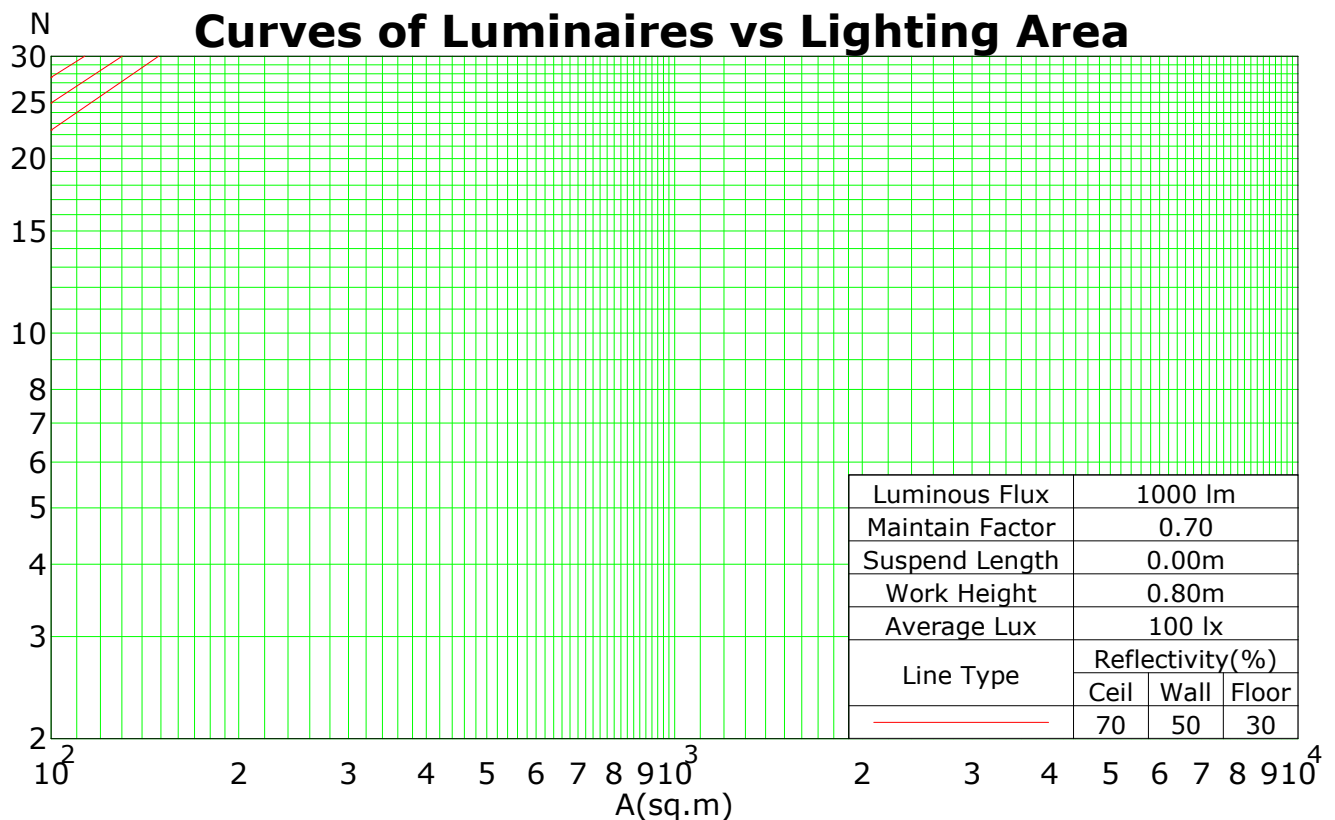
Coefficients Of Utilization - Zonal Cavity Method

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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.09	1.04	1.00	0.96	1.06	1.02	0.98	0.94	0.97	0.94	0.91	0.94	0.91	0.88	0.90	0.88	0.86	0.84
2	0.99	0.91	0.84	0.78	0.96	0.89	0.82	0.77	0.85	0.80	0.75	0.82	0.77	0.73	0.79	0.75	0.72	0.70
3	0.90	0.79	0.71	0.65	0.88	0.78	0.70	0.64	0.75	0.68	0.63	0.72	0.67	0.62	0.70	0.65	0.61	0.59
4	0.82	0.70	0.61	0.55	0.80	0.69	0.61	0.54	0.66	0.59	0.54	0.64	0.58	0.53	0.62	0.57	0.52	0.50
5	0.76	0.63	0.54	0.47	0.74	0.62	0.53	0.47	0.60	0.52	0.46	0.58	0.51	0.46	0.56	0.50	0.45	0.43
6	0.70	0.57	0.48	0.41	0.68	0.56	0.47	0.41	0.54	0.46	0.40	0.52	0.45	0.40	0.50	0.44	0.40	0.38
7	0.65	0.51	0.42	0.36	0.63	0.50	0.42	0.36	0.49	0.41	0.36	0.47	0.41	0.36	0.46	0.40	0.35	0.33
8	0.60	0.47	0.38	0.32	0.59	0.46	0.38	0.32	0.45	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.30
9	0.56	0.43	0.35	0.29	0.55	0.42	0.34	0.29	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.28	0.27
10	0.53	0.40	0.32	0.26	0.52	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.31	0.26	0.36	0.30	0.26	0.24

Spacing Criteria (0-180): 1.24

Spacing Criteria (90-270): 1.26

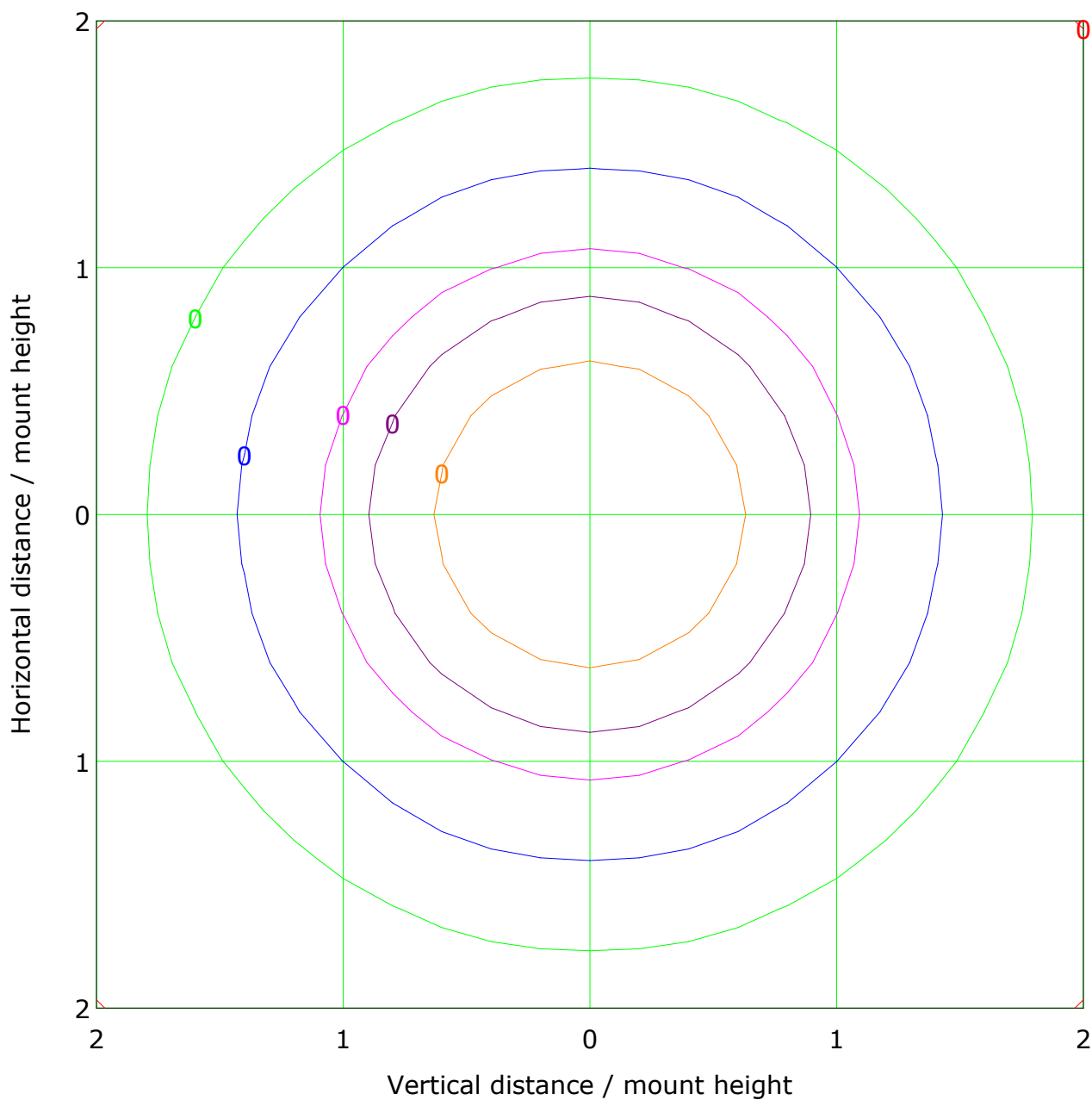
Spacing Criteria (Diagonal): 1.37



C Plane (°):0.0-90.0: 15.0
Test Lab: FARO LAB
Test Type: TYPE C
Temperature: 25
Operator: Sergio Feria

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 8.826 m [K=1.0000]
Humidity: 60%
Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 0.2 lx

(1%): 0.0 lx	(5%): 0.0 lx
(10%): 0.0 lx	(20%): 0.0 lx
(30%): 0.1 lx	(50%): 0.1 lx
(100%): 0.2 lx	(200%): 0.4 lx
(300%): 0.5 lx	(500%): 0.9 lx

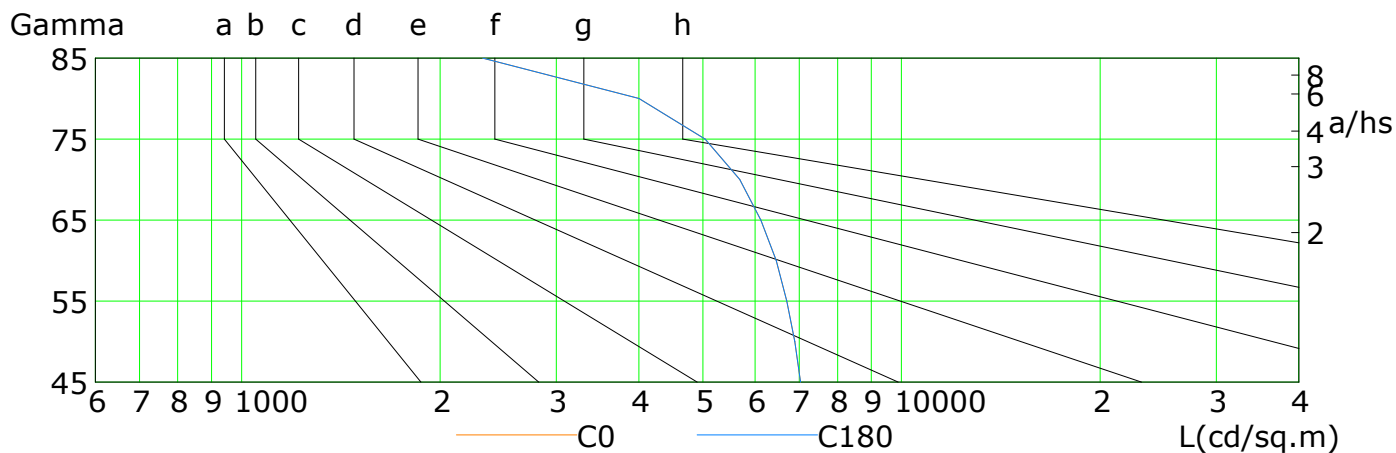
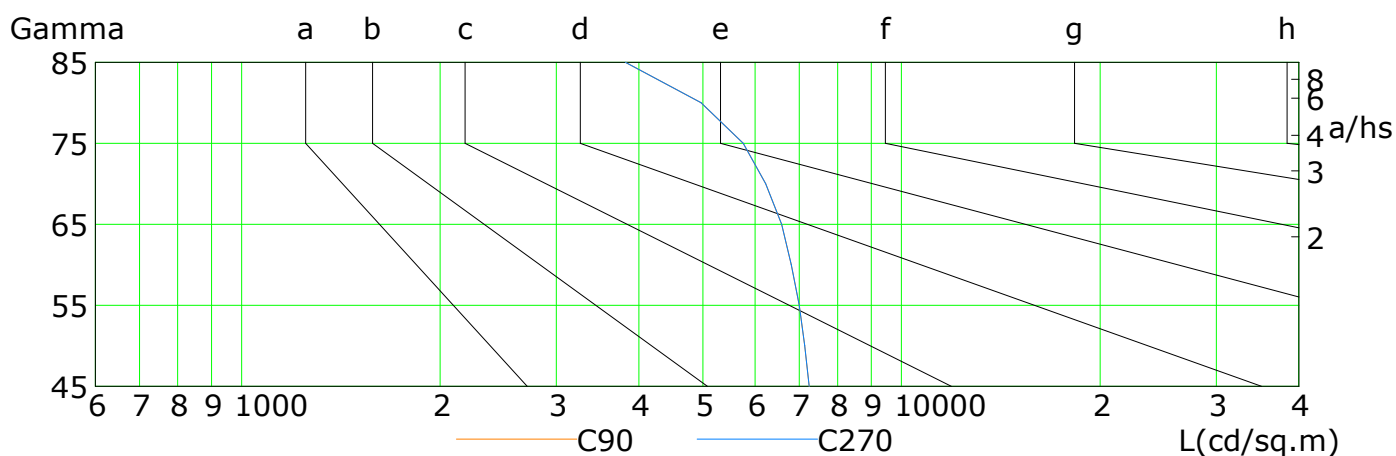
C Plane (°):0.0-90.0: 15.0
Test Lab: FARO LAB
Test Type: TYPE C
Temperature: 25
Operator: Sergio Feria

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 8.826 m [K=1.0000]
Humidity: 60%
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

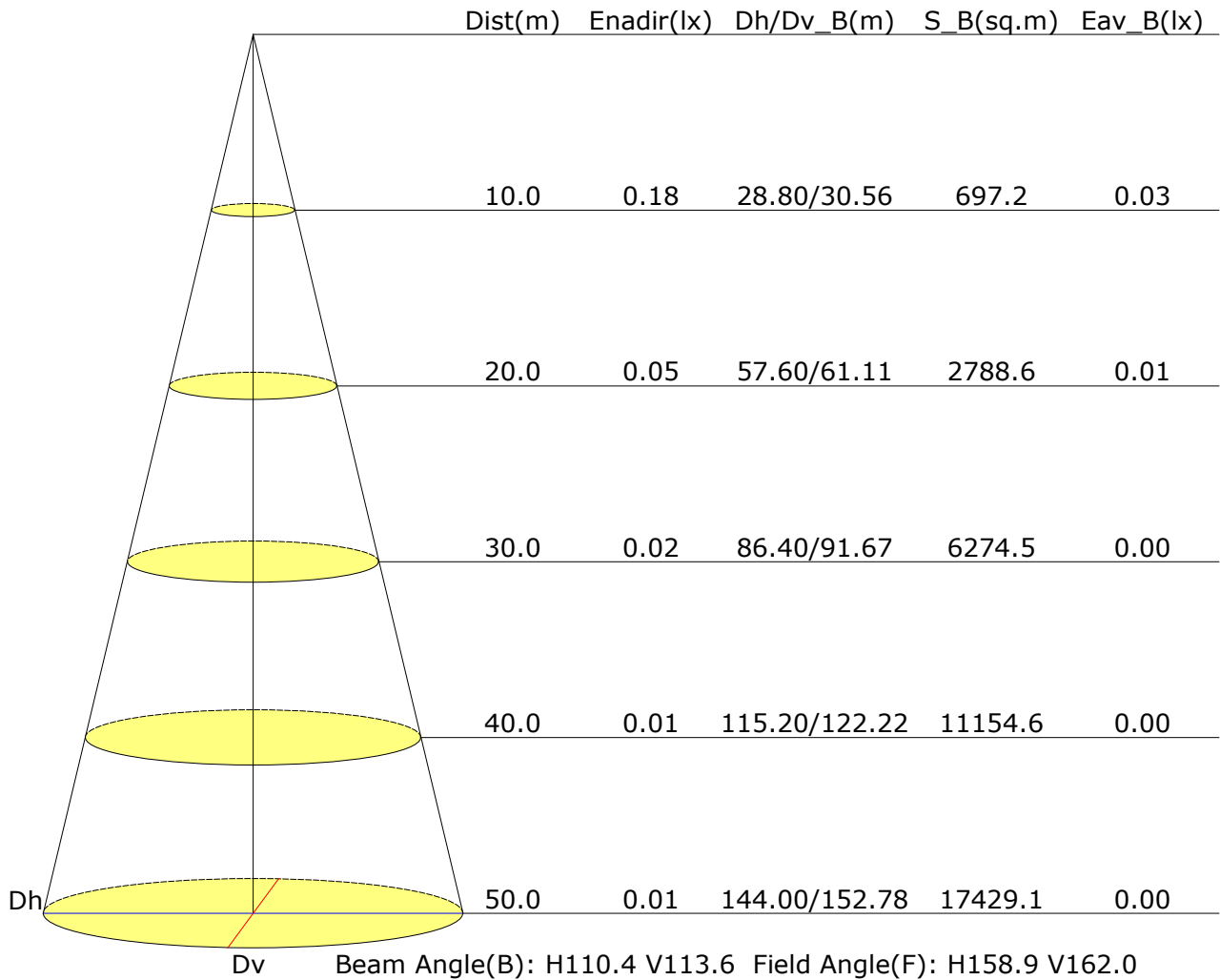


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	7030	6889	6700	6457	6125	5686	5041	3999	2318
C90	7250	7131	7001	6810	6583	6227	5757	4969	3815
C180	7030	6889	6700	6457	6125	5686	5041	3999	2318
C270	7250	7131	7001	6810	6583	6227	5757	4969	3815

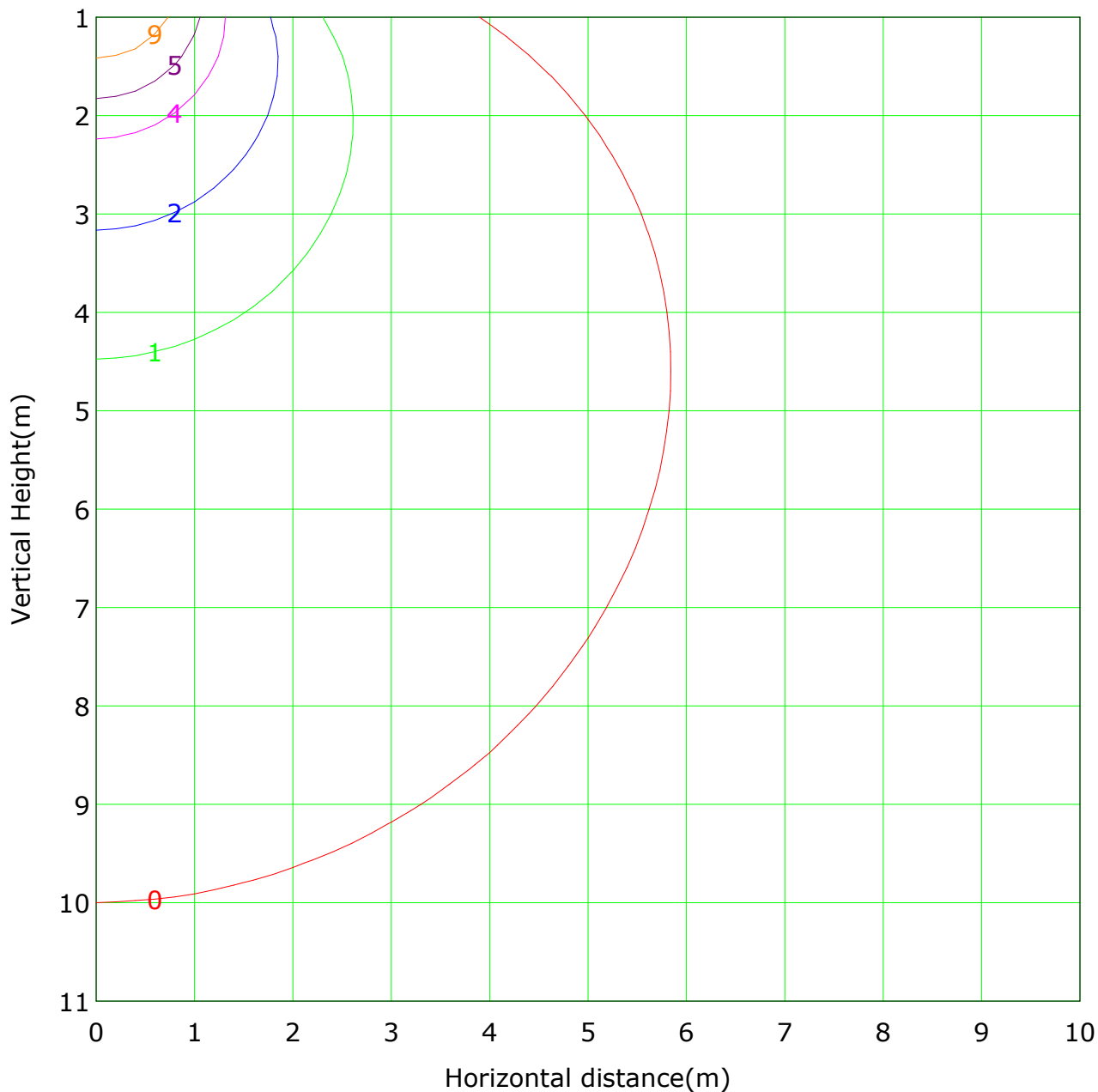
C Plane (°):0.0-90.0: 15.0
 Test Lab: FARO LAB
 Test Type: TYPE C
 Temperature: 25
 Operator: Sergio Feria

Gamma Plane (°):0.0-90.0:5.0
 Test Device: GPM-1600L
 Distance: 8.826 m [K=1.0000]
 Humidity: 60%
 Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 18.1 lx
(1%): 0.2 lx	(5%): 0.9 lx	
(10%): 1.8 lx	(20%): 3.6 lx	
(30%): 5.4 lx	(50%): 9.1 lx	
(100%): 18.1 lx	(200%): 36.3 lx	
(300%): 54.4 lx	(500%): 90.6 lx	

C Plane (°):0.0-90.0: 15.0
Test Lab: FARO LAB
Test Type: TYPE C
Temperature: 25
Operator: Sergio Feria

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 8.826 m [K=1.0000]
Humidity: 60%
Inspector: