

Report No.:

Test Time: 15.10.2019 13:15

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Category: FI 130 SENLM 8W 6000K OPAL

Luminous Length (mm): 135

Luminous Width (mm): 135

Luminous Height (mm): 50

Voltage: 221.1 V

Current: 0.064 A

Power: 7.46 W

Power Factor: 0.520

Photometric Results

CIE Class: Direct

Measurement Flux: 604.7 lm

Downward Ratio: 94%

Total Rated Lamp Lumens: 604.7 lm

Efficiency: 100%

Upward Ratio: 6%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 185.2, 178.3, 181.7, 181.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.8, 116.0, 116.3, 116.6

Luminaire Efficacy Rating (LER): 81.11

Central Intensity: 183.17 cd

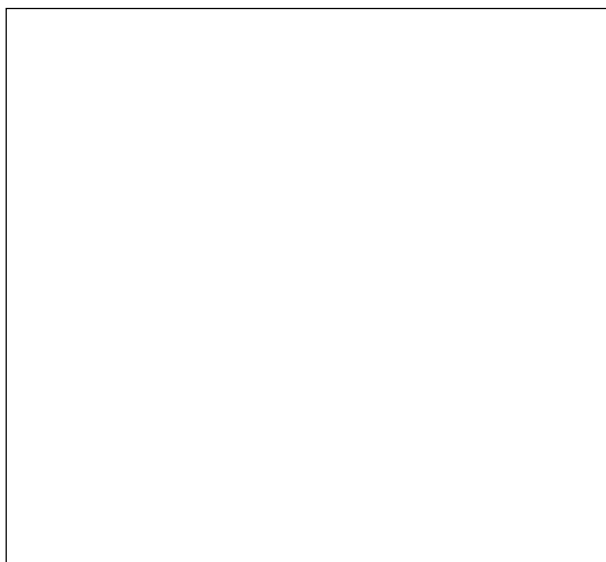
Max. Intensity: 183.23 cd

Pos of Max. Intensity: H0 V2

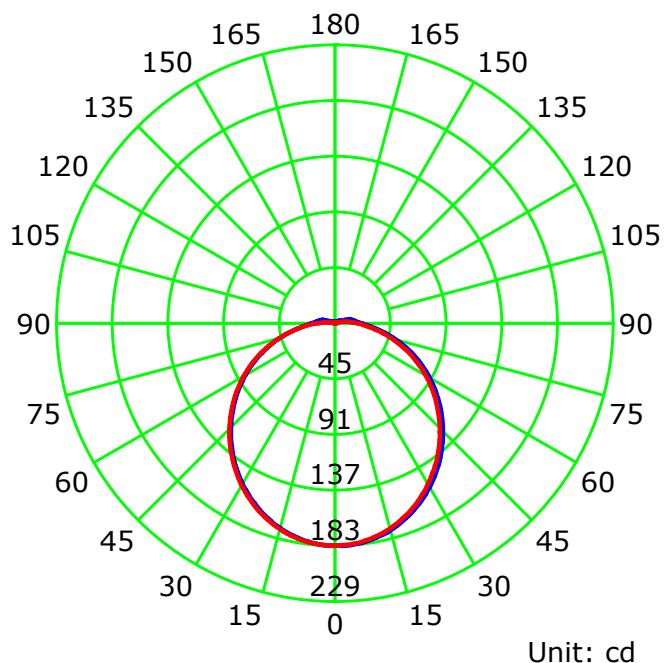
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.25

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 (°):0.0-180.0:1.0

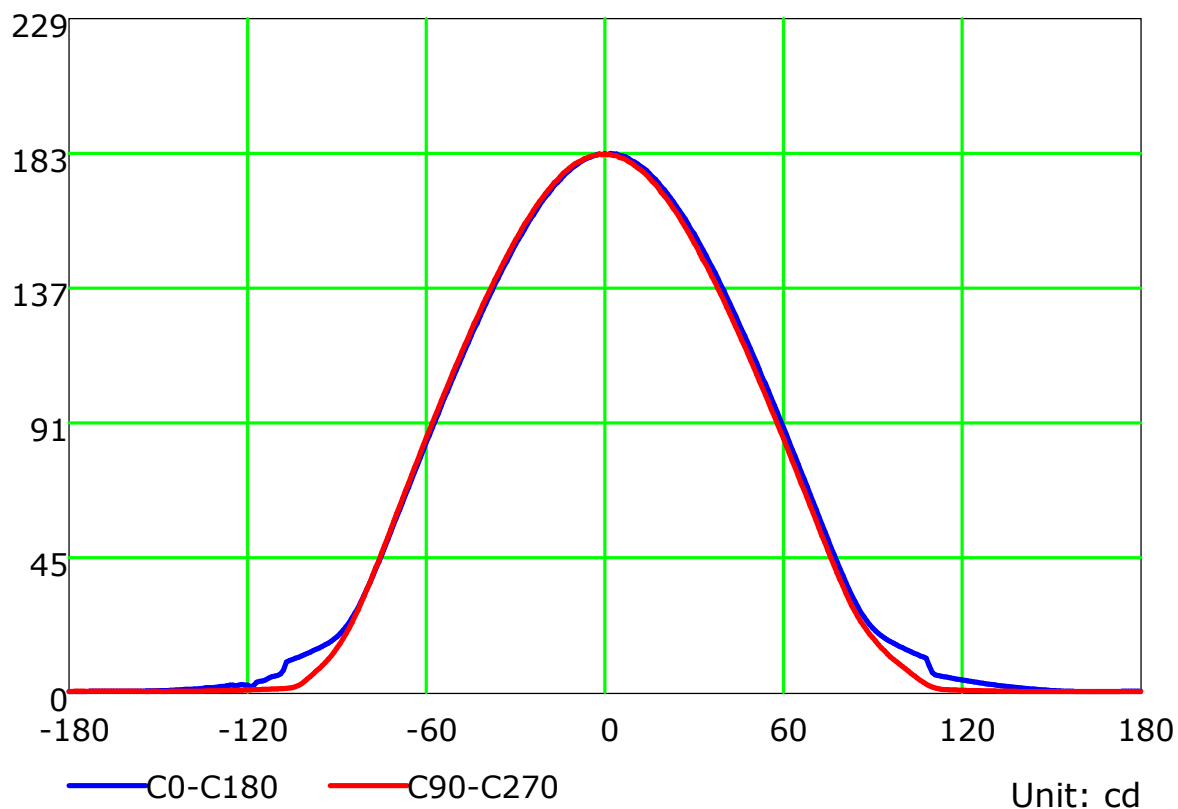
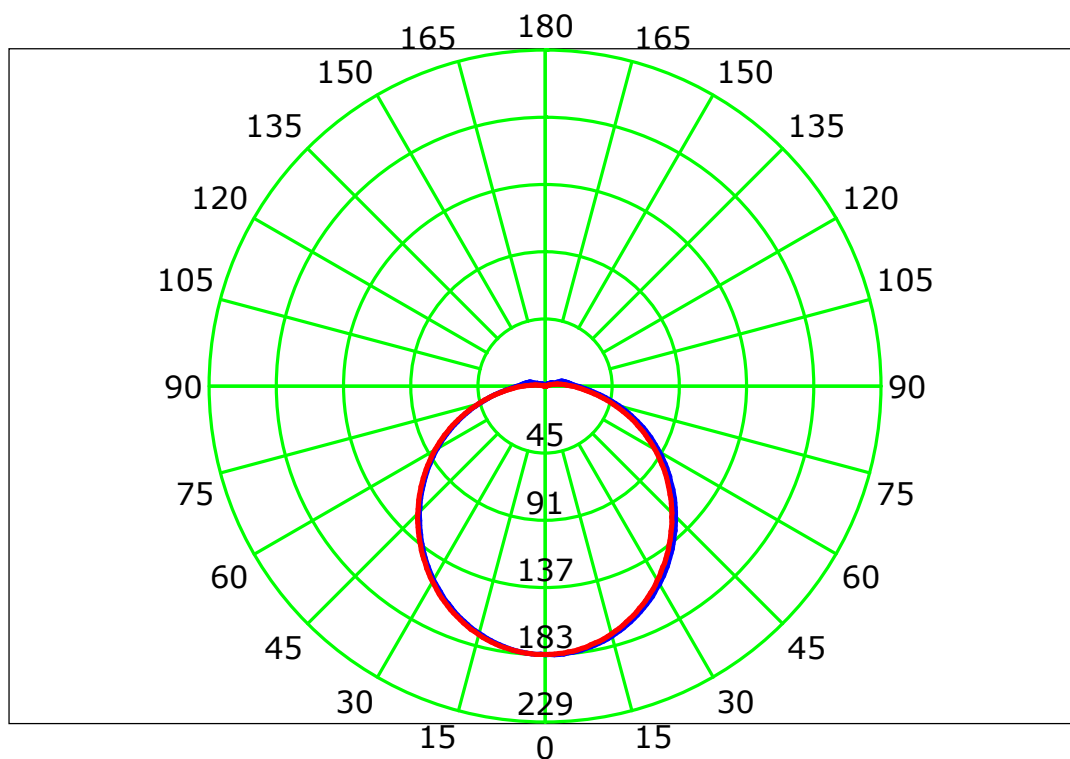
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

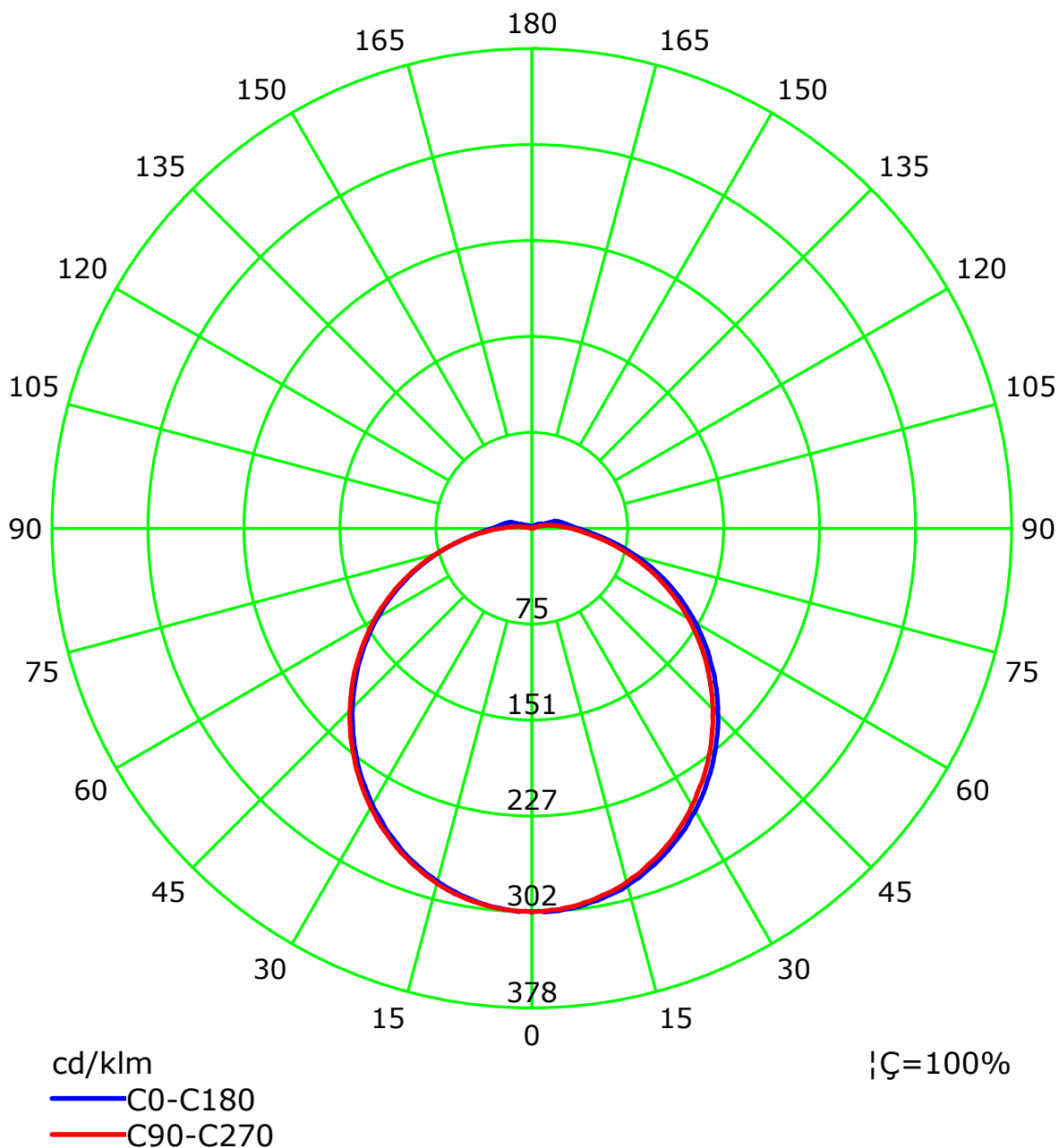
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

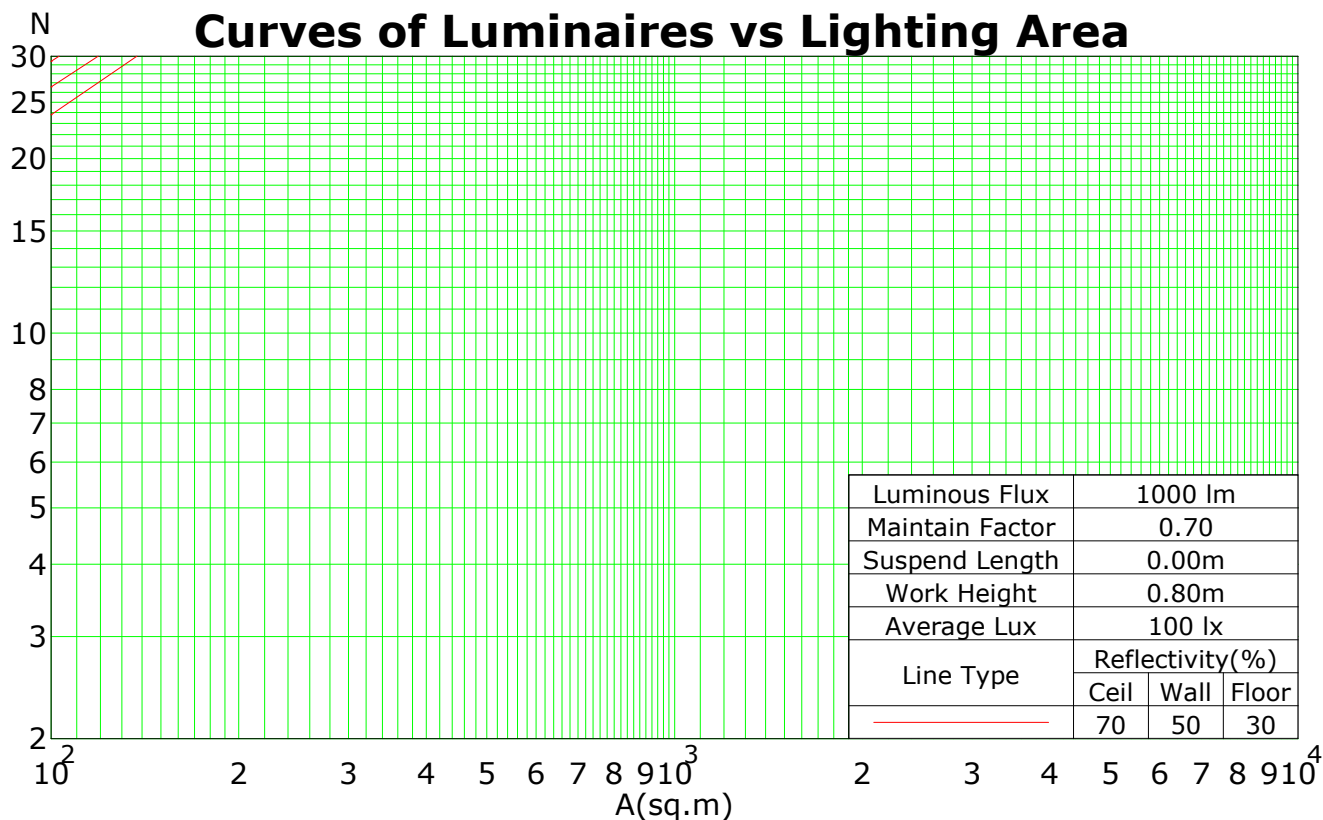
Coefficients Of Utilization - Zonal Cavity Method

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	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	106	100	96	91	102	98	93	89	92	89	85	87	84	82	83	80	78	76
2	96	87	79	73	92	84	77	72	80	74	69	76	71	67	72	68	64	62
3	87	76	67	60	84	74	66	59	70	63	57	66	60	56	63	58	54	51
4	79	67	58	51	77	65	57	50	62	54	49	59	52	47	56	50	46	44
5	73	60	50	43	70	58	49	43	55	48	42	53	46	41	50	44	40	37
6	67	53	44	38	65	52	44	37	50	42	36	48	41	36	45	39	35	33
7	62	48	39	33	60	47	39	33	45	38	32	43	37	31	41	35	31	29
8	58	44	35	29	56	43	35	29	41	34	29	40	33	28	38	32	28	26
9	54	40	32	26	52	40	32	26	38	31	26	37	30	25	35	29	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	27	23	33	27	23	21

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.25

Spacing Criteria (Diagonal): 1.38



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Temperature:

Operator:

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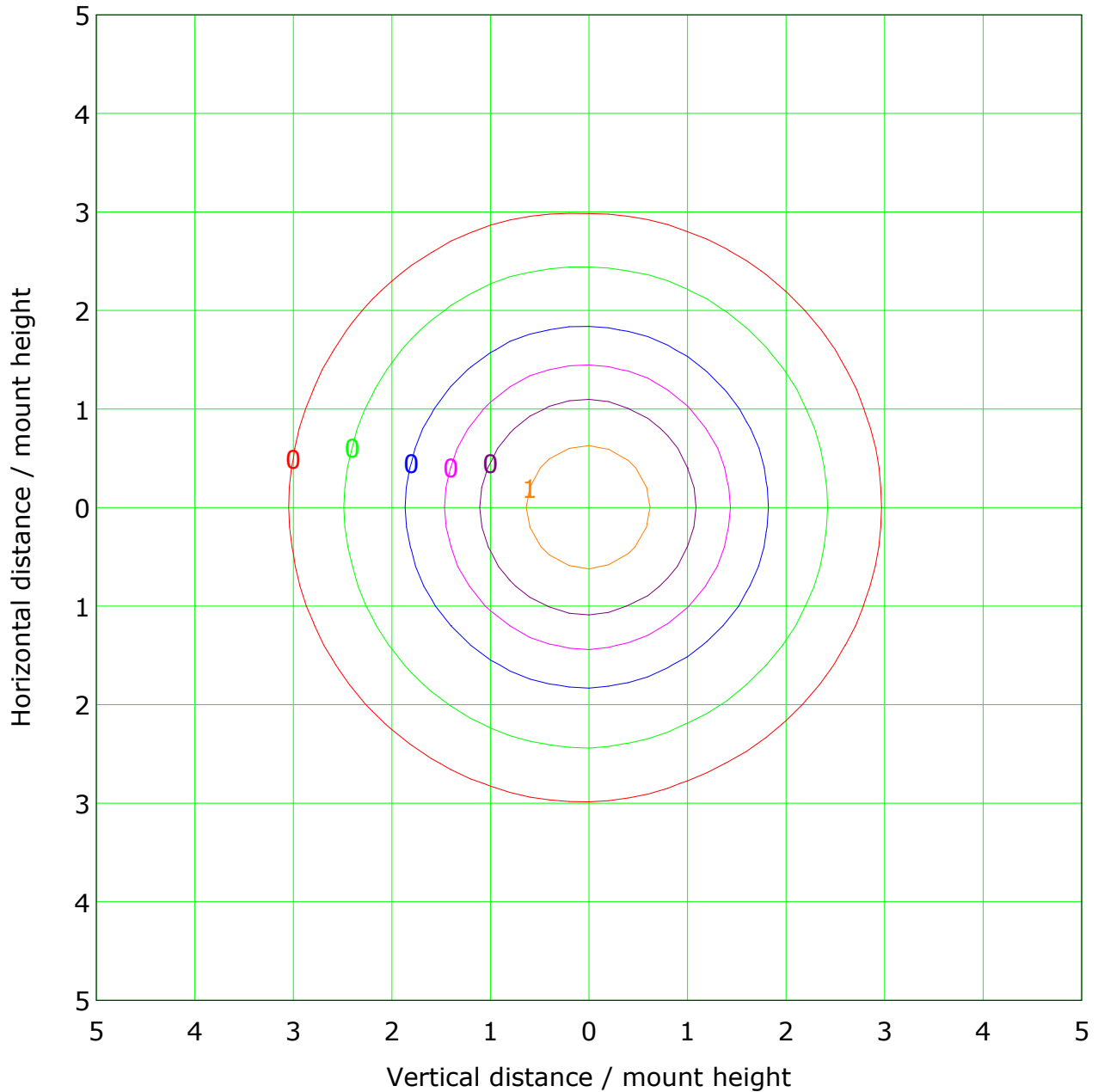
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 1.8 lx

(1%): 0.0 lx	(2%): 0.0 lx
(5%): 0.1 lx	(10%): 0.2 lx
(20%): 0.4 lx	(50%): 0.9 lx
(100%): 1.8 lx	

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1800B

Distance: 12.677 m

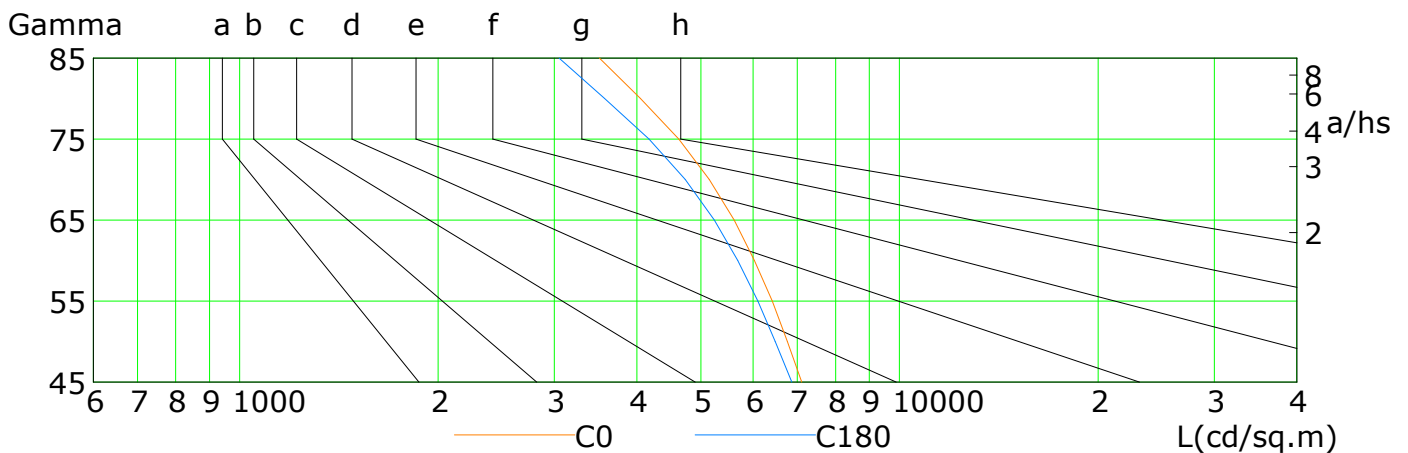
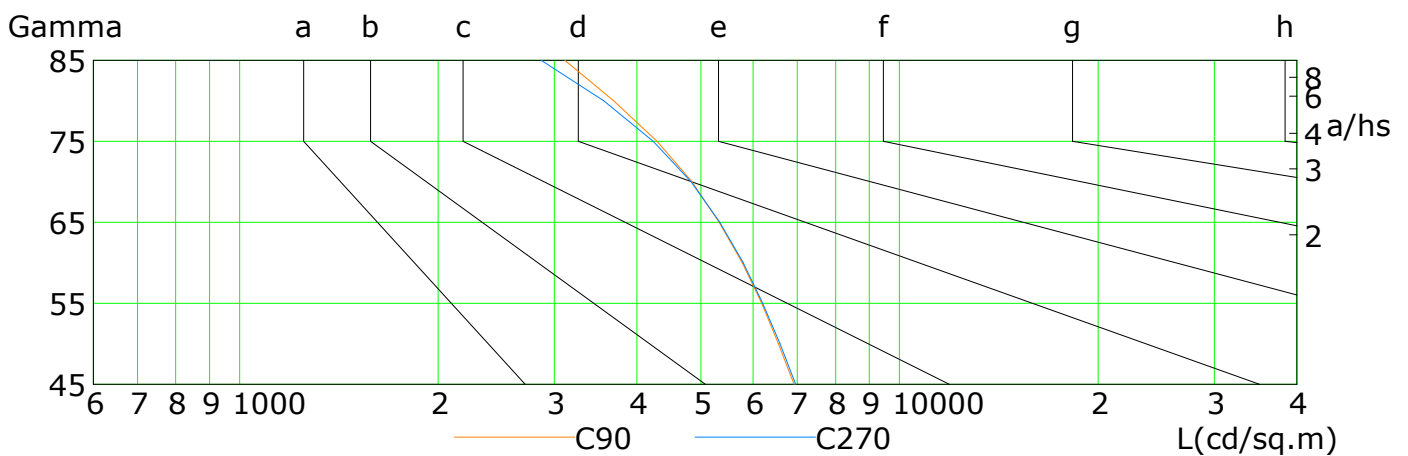
Humidity:

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	7112	6763	6413	6027	5618	5146	4628	4049	3511
C90	6921	6552	6181	5779	5332	4848	4294	3685	3110
C180	6865	6481	6100	5689	5239	4736	4173	3573	3051
C270	6962	6591	6202	5797	5341	4831	4234	3562	2865

C Plane (°):0.0-360.0: 22.5

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Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

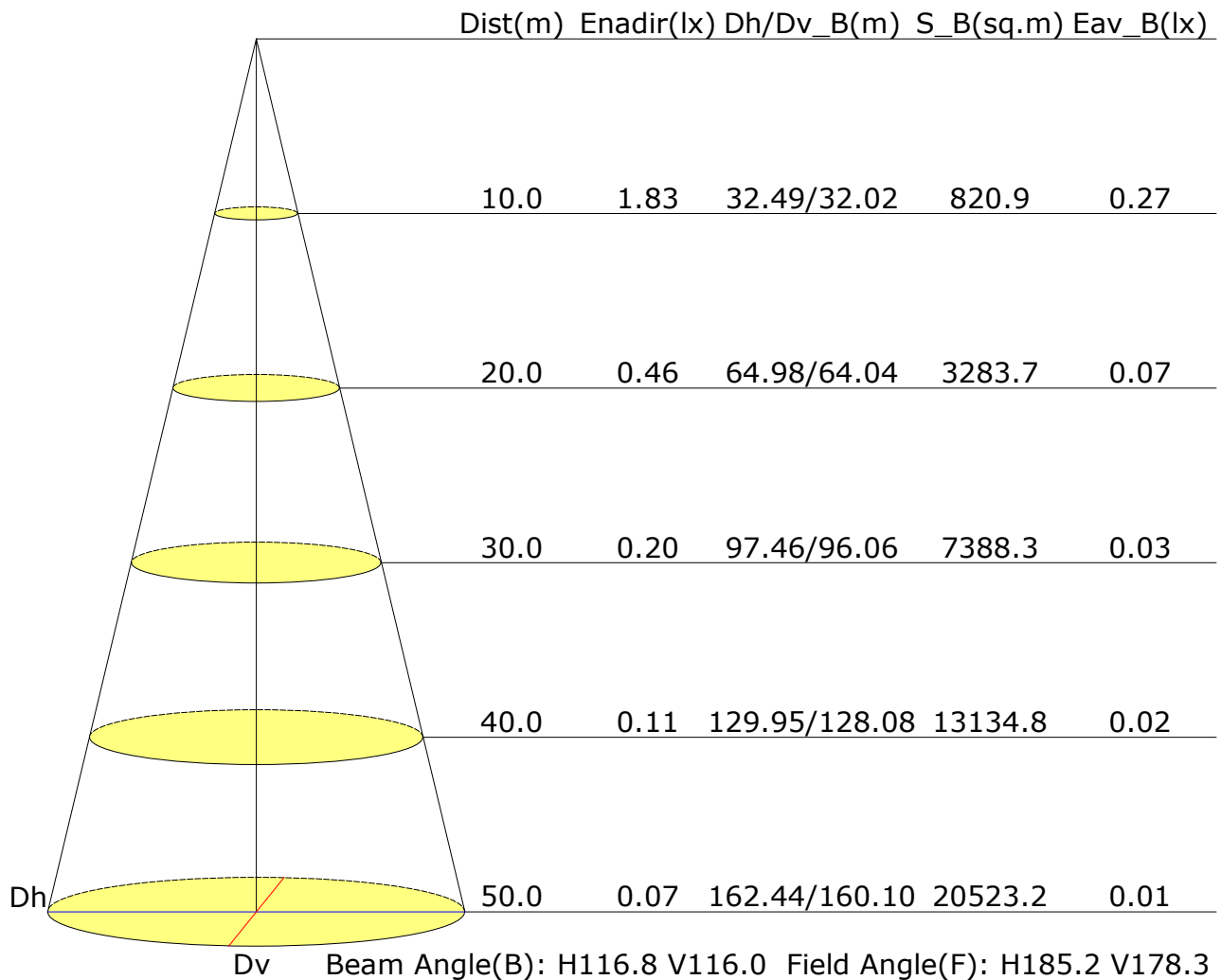
Test Device: LSG-1800B

Distance: 12.677 m

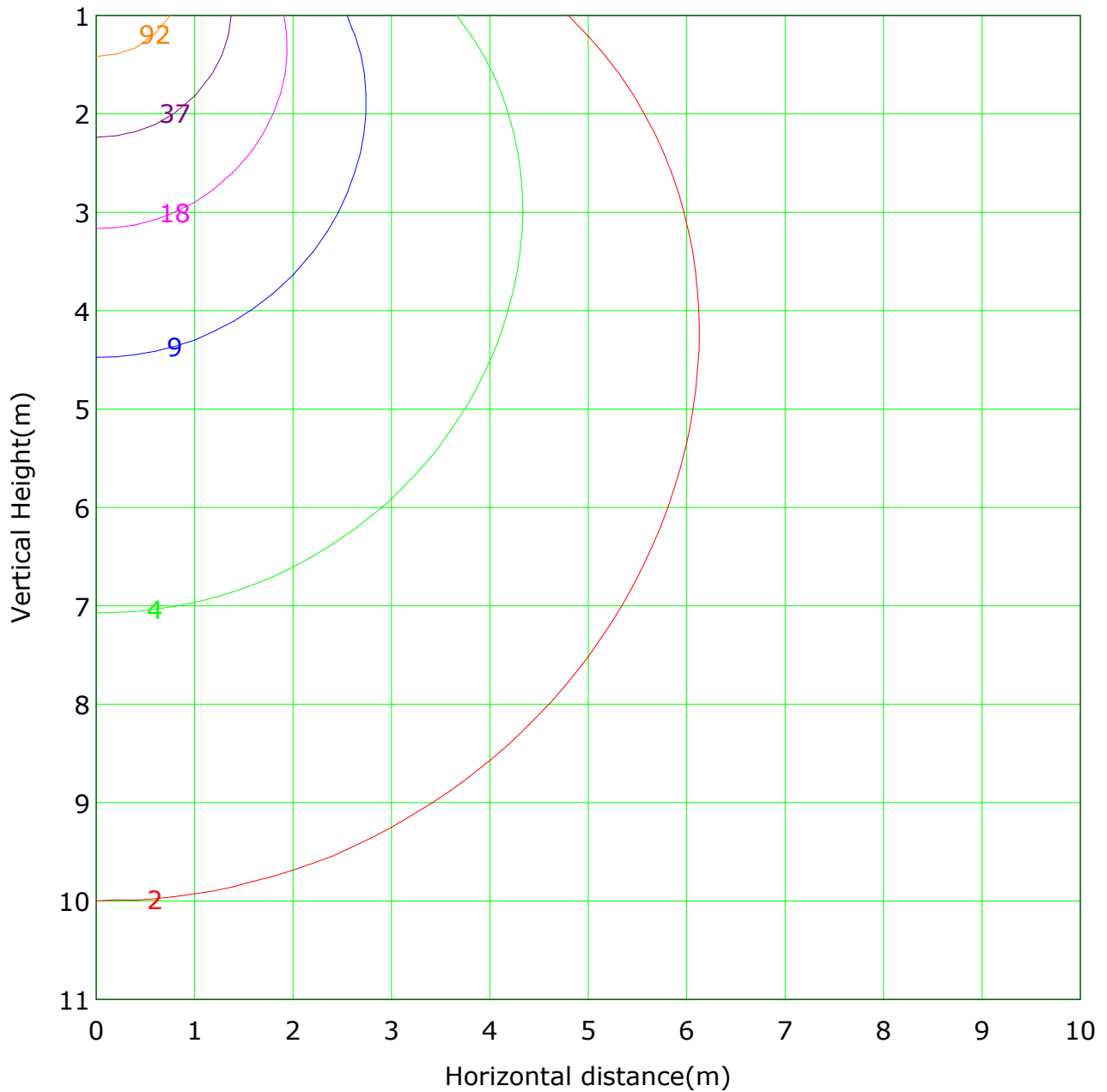
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 183.2 lx
(1%): 1.8 lx	(2%): 3.7 lx	
(5%): 9.2 lx	(10%): 18.3 lx	
(20%): 36.6 lx	(50%): 91.6 lx	
(100%): 183.2 lx		

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

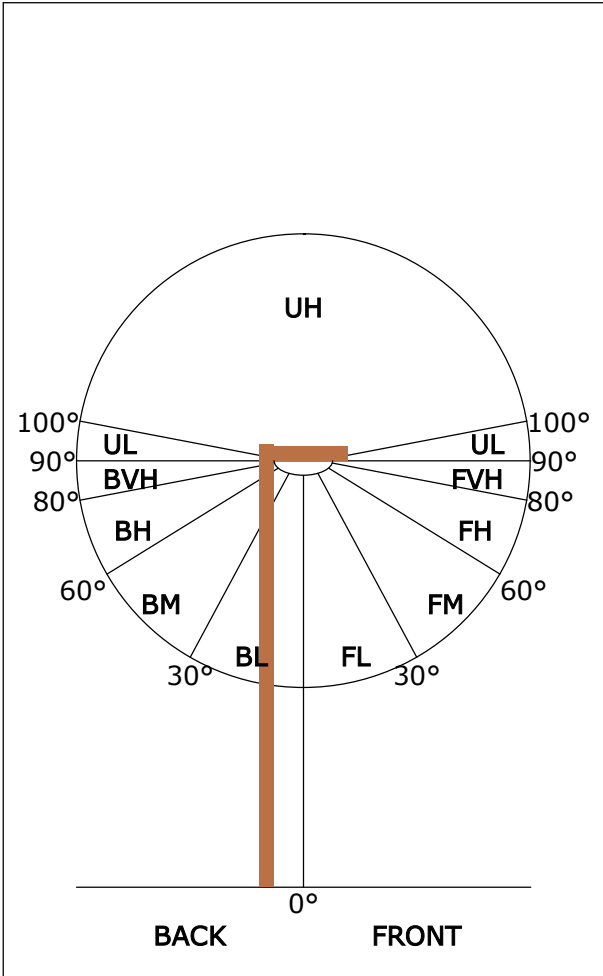
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	283	46.8
	FL (0°-30°)	71	11.7
	FM (30°-60°)	136	22.5
	FH (60°-80°)	62	10.2
	FVH (80°-90°)	15	2.4
	BACK LIGHT	286	47.4
	BL (0°-30°)	71	11.7
	BM (30°-60°)	138	22.8
	BH (60°-80°)	63	10.4
	BVH (80°-90°)	14	2.4
	UP LIGHT	35	5.8
	UL (90°-100°)	16	2.6
	UH (100°-180°)	19	3.2
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U2 G1

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Test Lab:

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Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector: