

Report No.:

Test Time: 26.07.2021 11:27

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Category: FD 111 220W 5000K PI60

Luminous Length (mm): 400

Luminous Width (mm): 400

Luminous Height (mm): 215

Voltage: 221.4 V

Current: 1.004 A

Power: 219.20 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Measurement Flux: 27800.7 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 27800.7 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 117.6, 118.7, 118.7, 118.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 61.9, 64.1, 63.1, 63.3

Luminaire Efficacy Rating (LER): 126.88

Central Intensity: 20464.07 cd

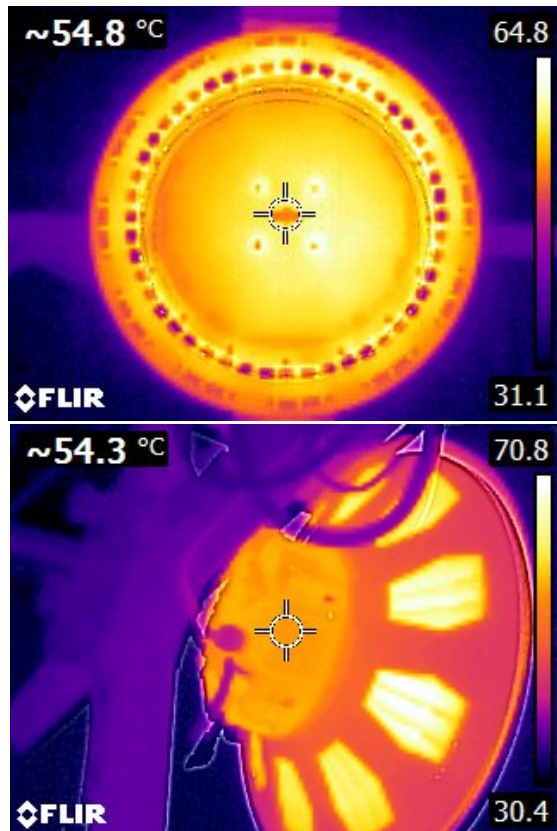
Max. Intensity: 21148.27 cd

Pos of Max. Intensity: H180 V6

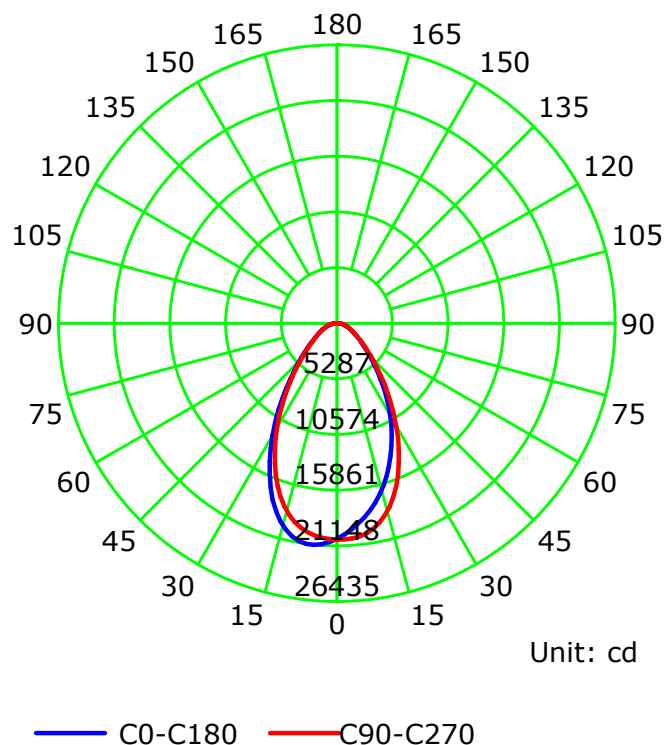
S/MH(C0/C180): 0.93

S/MH(C90/C270): 0.94

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab: FAROS LED Lab

Test Type: TYPE C

Temperature:

Operator: Lab

Gamma Plane (°):0.0-180.0:2.0

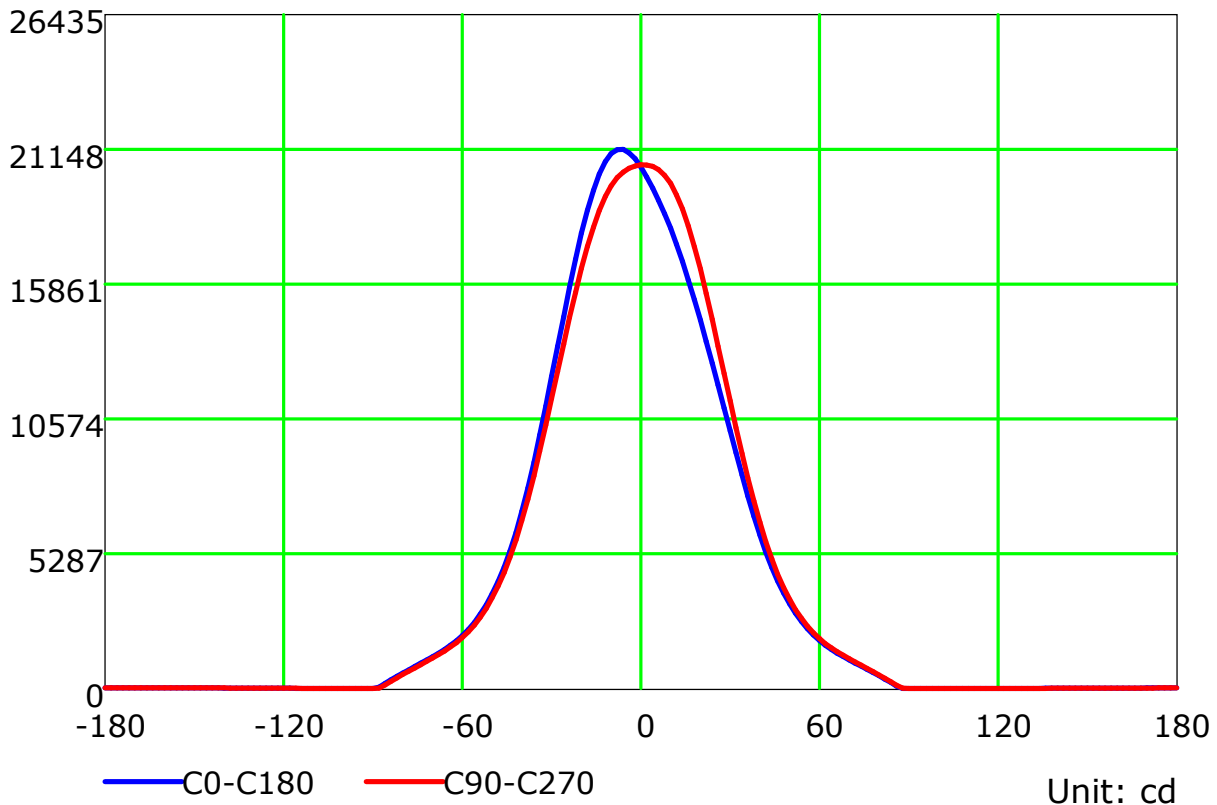
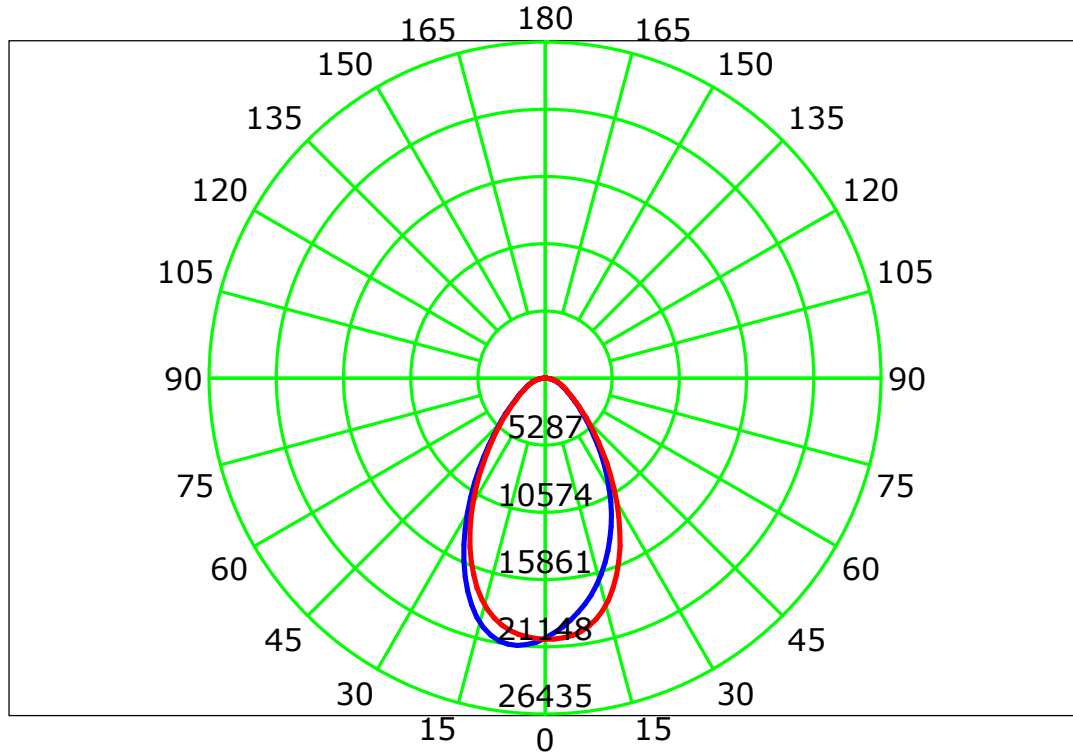
Test Device: LSG-1800B

Distance: 12.735 m

Humidity:

Inspector:

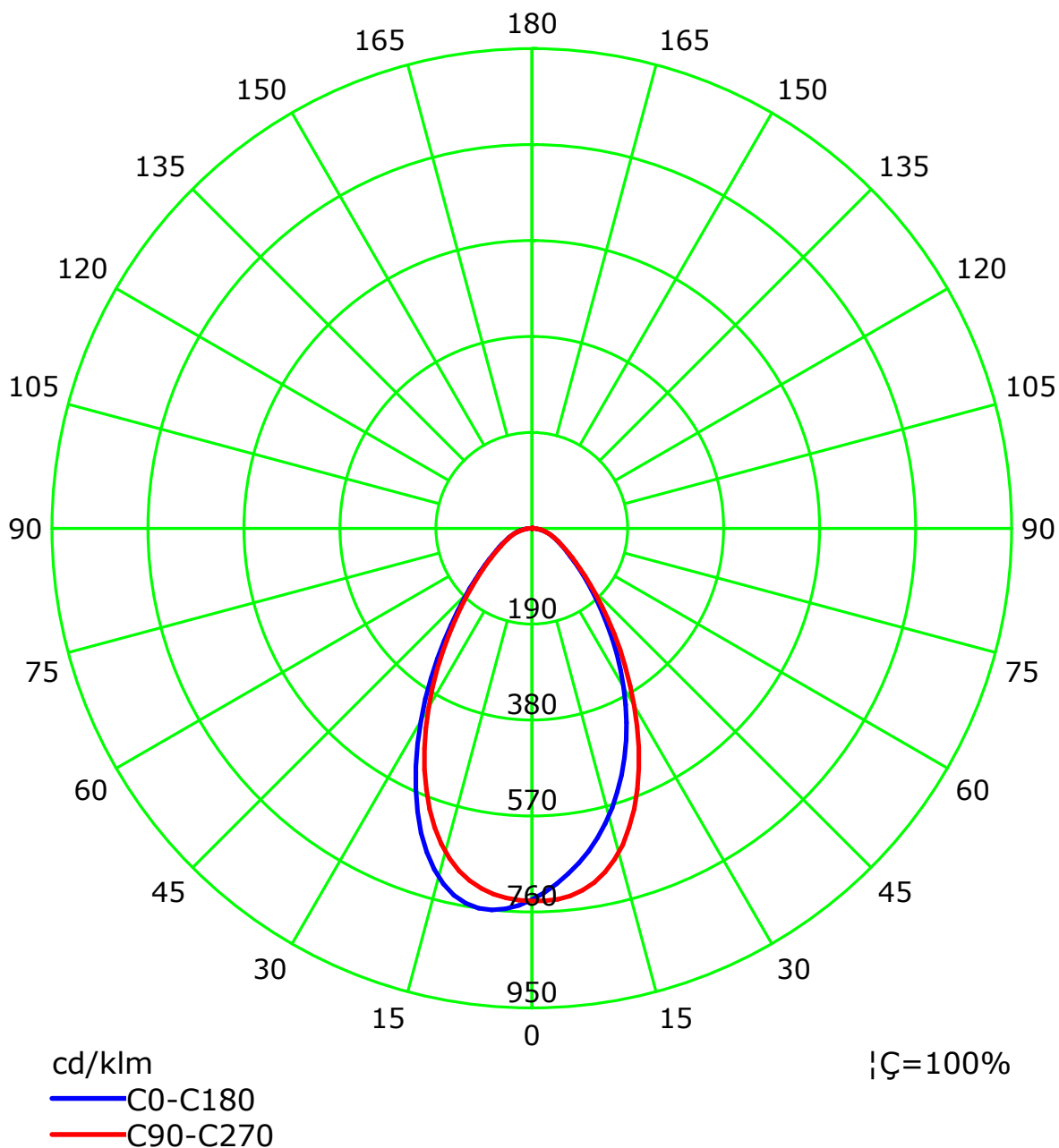
Luminous Intensity Distribution Curve



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Luminous Intensity Distribution Curve(cd/klm)



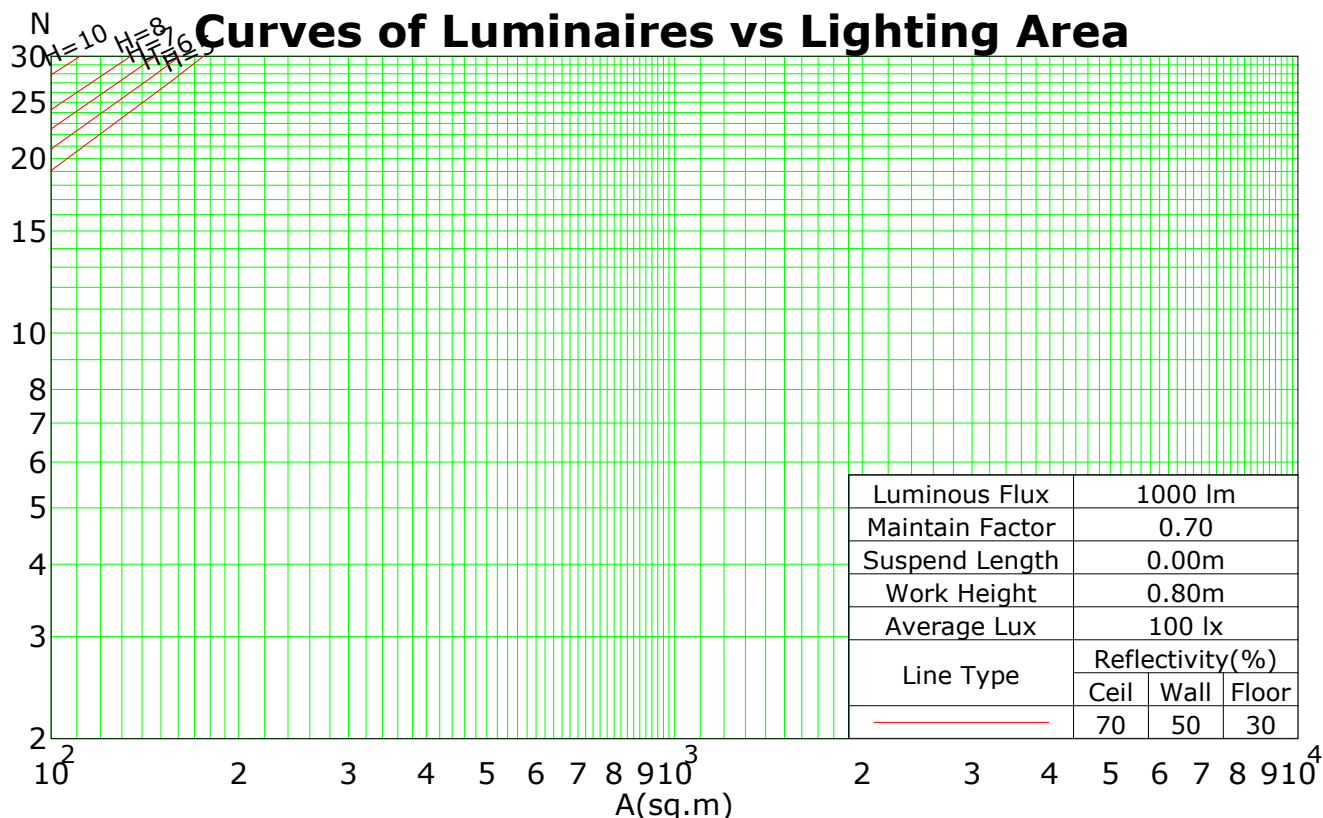
Coefficients Of Utilization - Zonal Cavity Method

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	60	68	63	59	67	62	58	57
6	79	68	60	55	77	67	60	55	65	59	54	63	58	54	62	57	53	51
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

Spacing Criteria (0-180): 0.93

Spacing Criteria (90-270): 0.94

Spacing Criteria (Diagonal): 0.97



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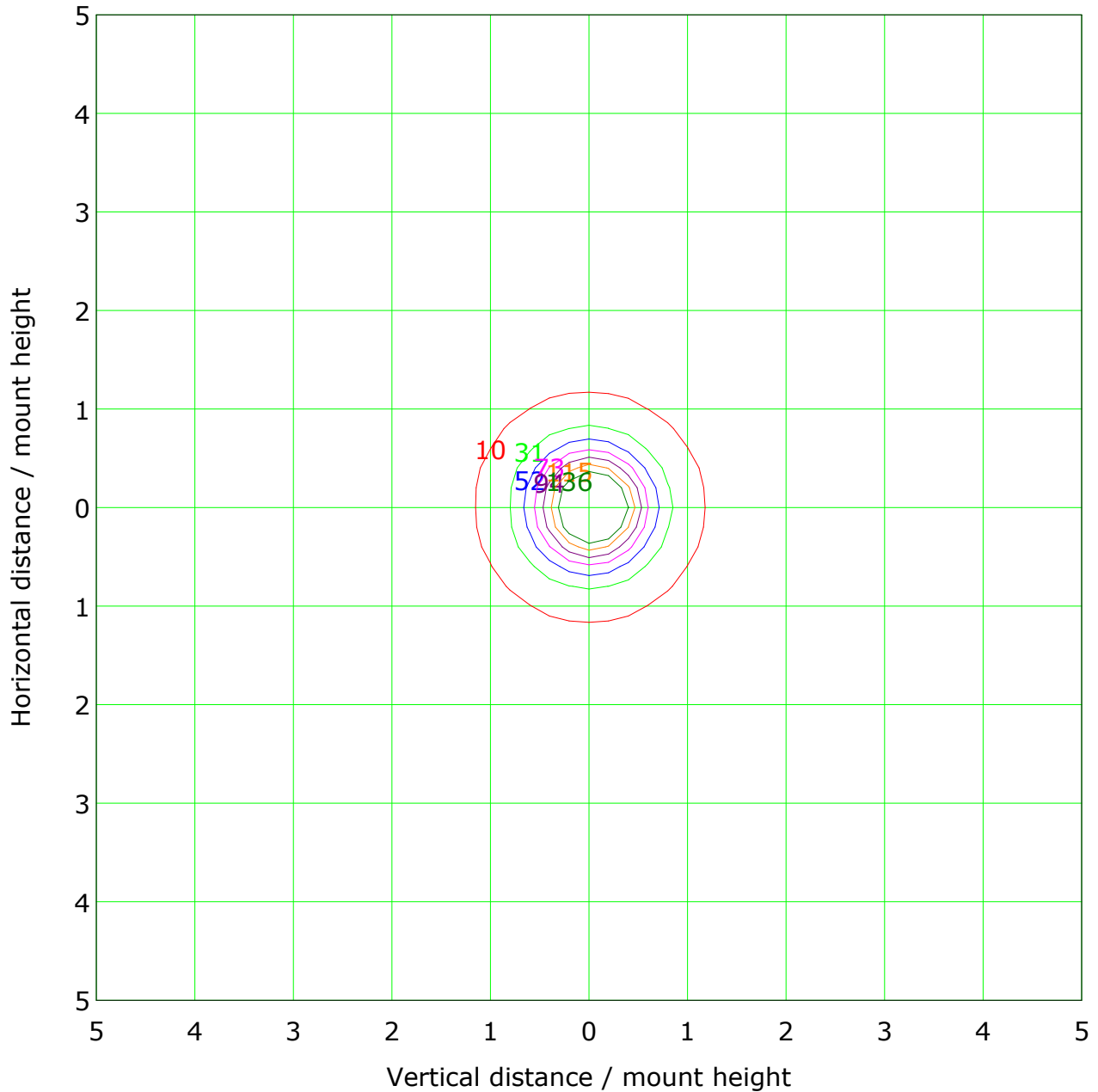
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IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 208.7 lx	
— (5%):	10.4 lx	— (15%):	31.3 lx
— (25%):	52.2 lx	— (35%):	73.0 lx
— (45%):	93.9 lx	— (55%):	114.8 lx
— (65%):	135.6 lx		

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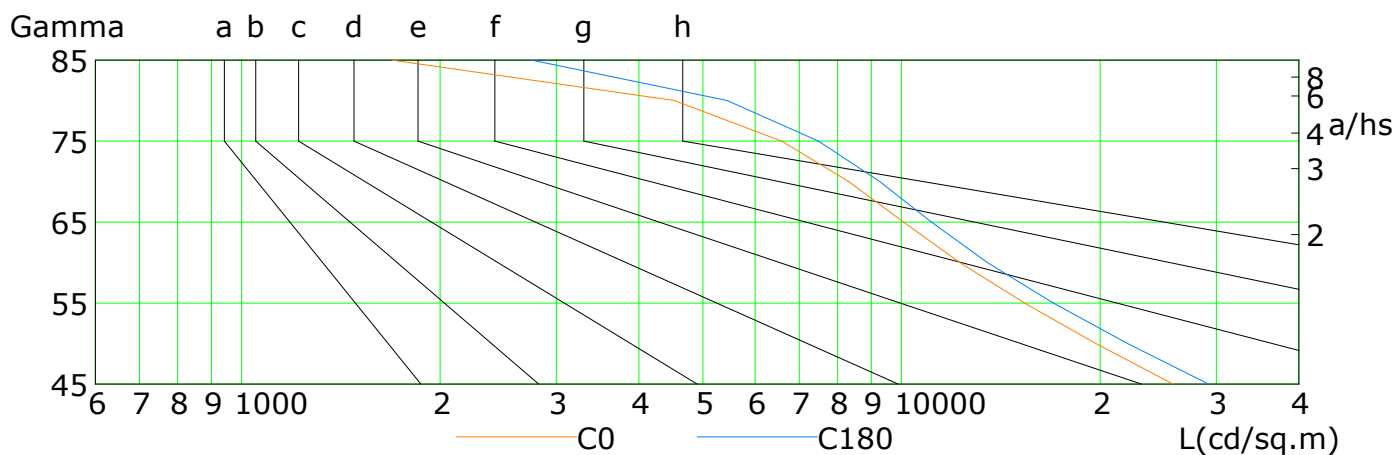
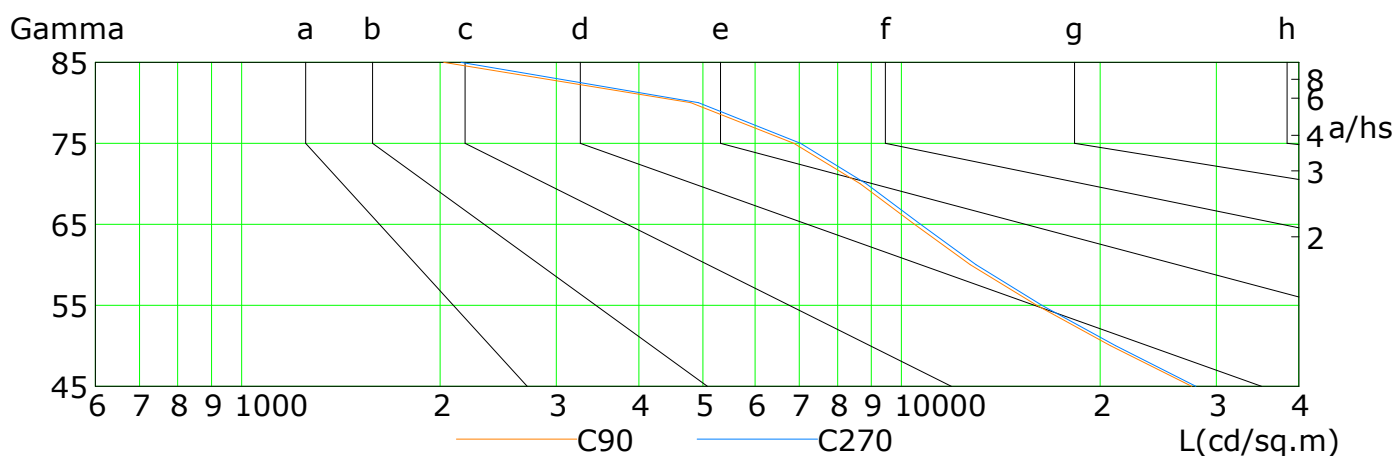
Humidity:

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	25804	19683	15362	12244	10075	8314	6586	4523	1690
C90	27539	20737	16031	12706	10464	8656	6871	4792	2025
C180	29209	21986	16997	13480	11105	9262	7487	5438	2750
C270	27923	21094	16324	12971	10690	8841	7028	4925	2150

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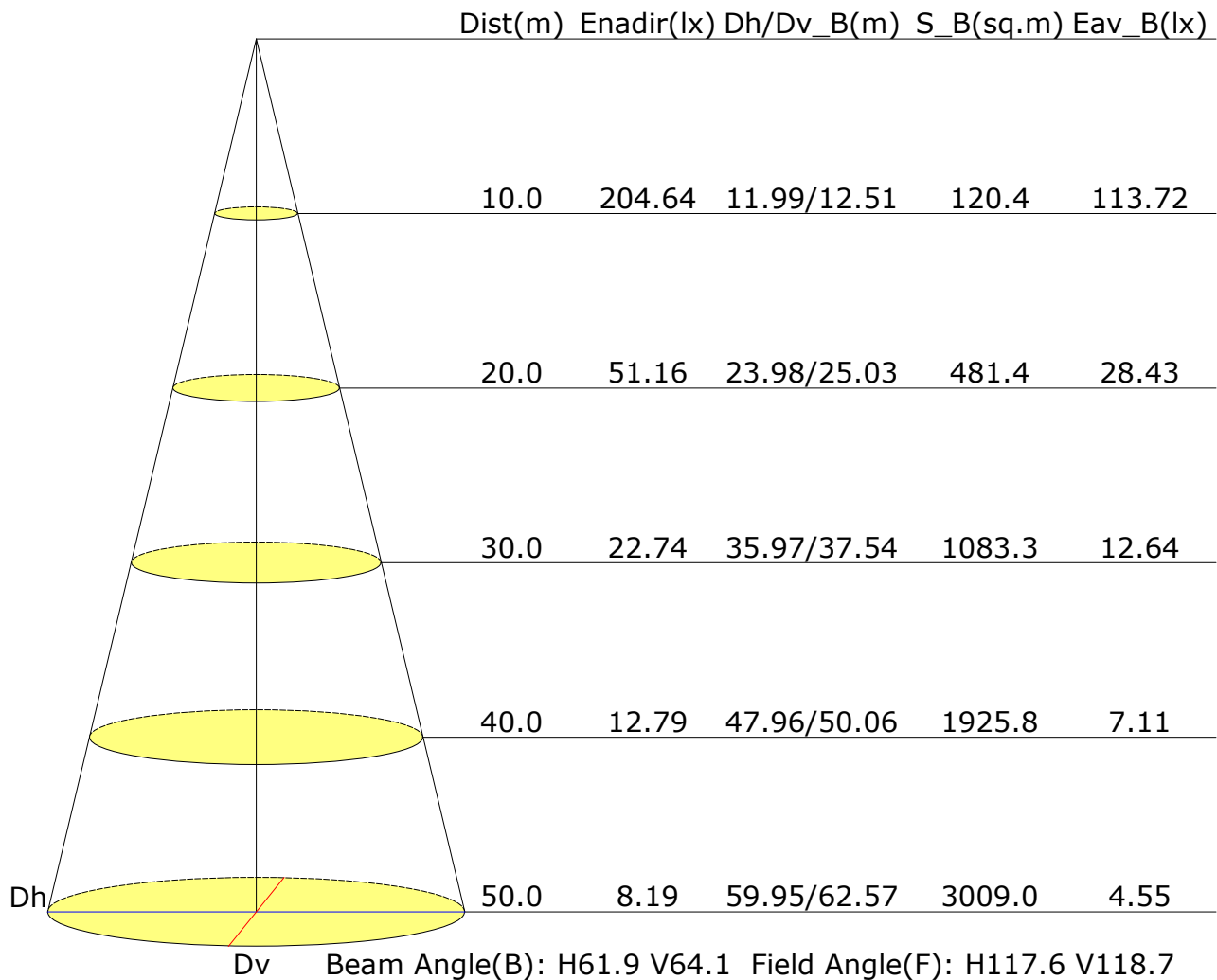
Test Device: LSG-1800B

Distance: 12.735 m

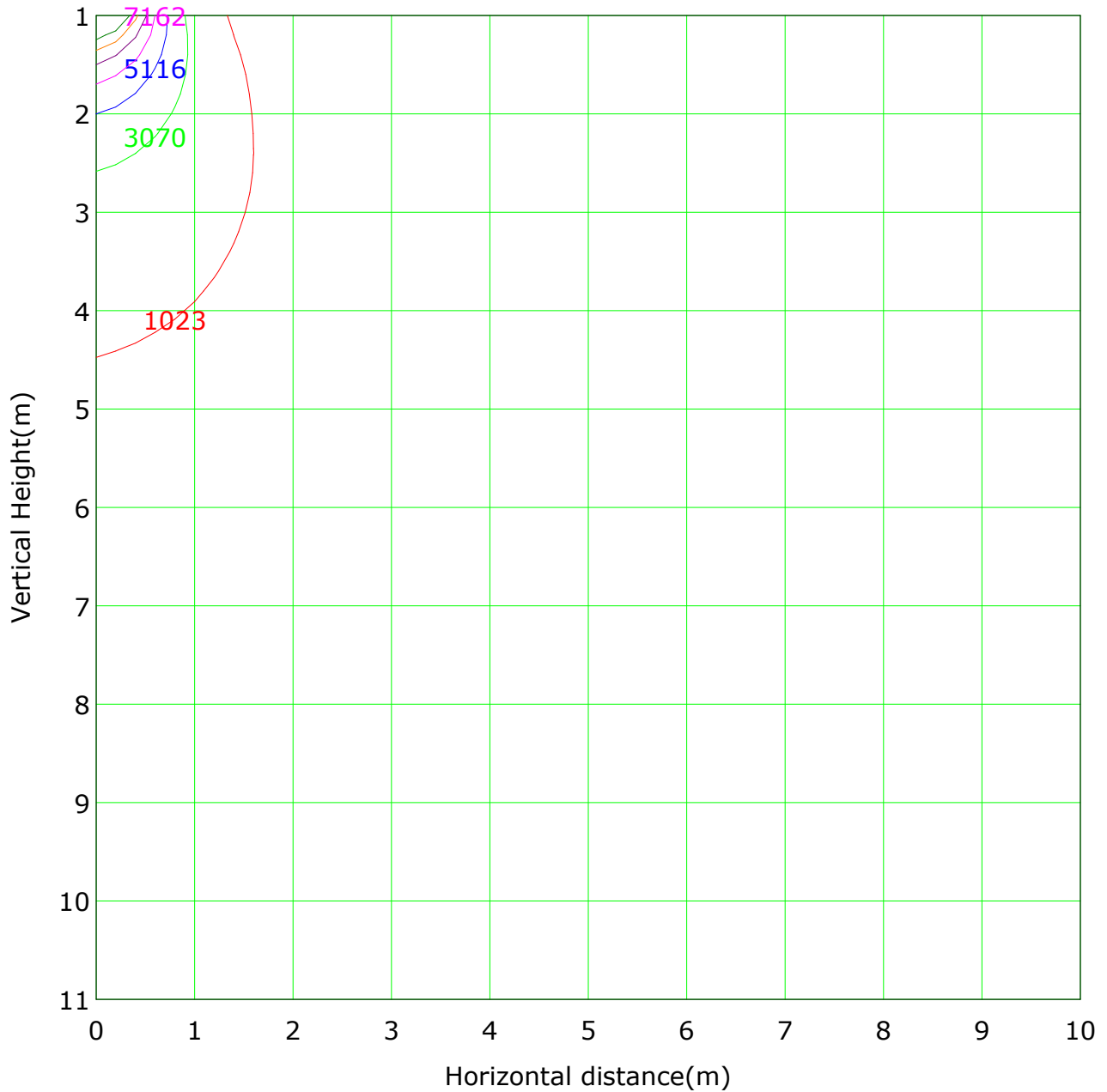
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 20464.1 lx

(5%):1023.2 lx

(15%):3069.6 lx

(25%):5116.0 lx

(35%):7162.4 lx

(45%):9208.8 lx

(55%):11255.2 lx

(65%):13301.6 lx

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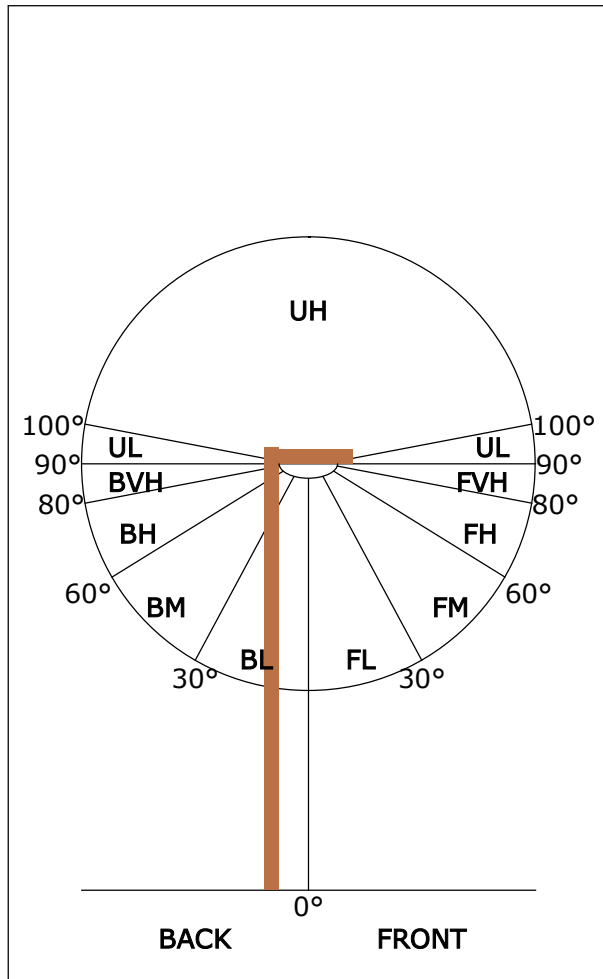
Test Device: LSG-1800B

Distance: 12.735 m

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	13753	49.5
FL (0°-30°)	6657	23.9
FM (30°-60°)	5768	20.7
FH (60°-80°)	1208	4.3
FVH (80°-90°)	119	0.4
BACK LIGHT	13963	50.2
BL (0°-30°)	6700	24.1
BM (30°-60°)	5895	21.2
BH (60°-80°)	1239	4.5
BVH (80°-90°)	130	0.5
UP LIGHT	85	0.3
UL (90°-100°)	6	0.0
UH (100°-180°)	79	0.3
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B5 U2 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B5 U2 G1

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