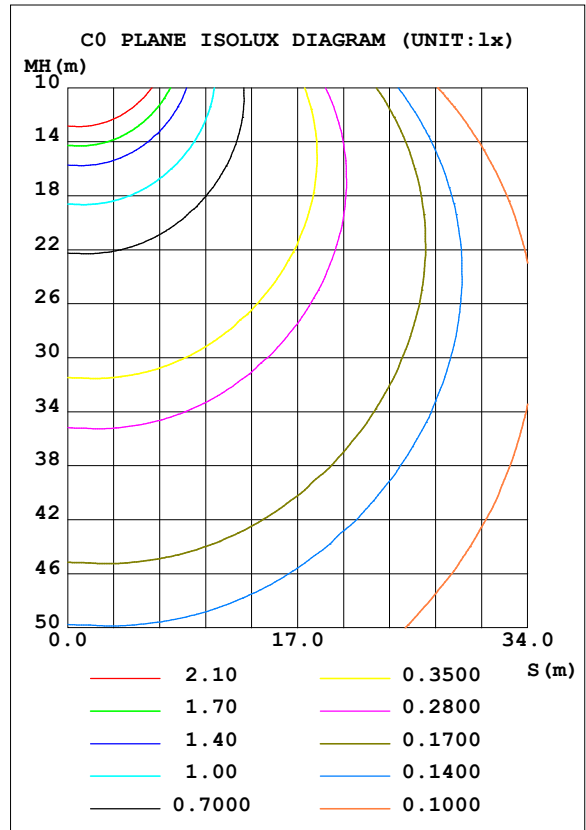
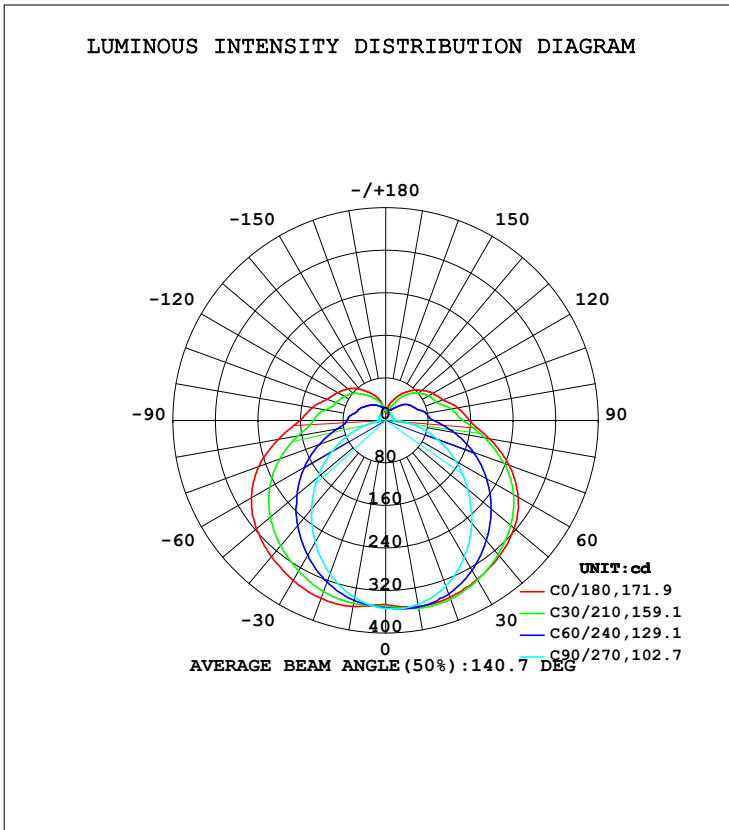


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.1480A P:17.50W PF:0.9820 Freq:60.00Hz Lamp Flux:1784.24x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.96 lm/W			
MODEL		I <sub>max</sub> (cd)	359.7	S/MH (C0/180)	1.50
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.13
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1784.2	η UP, DN (C0-180)	11.1, 40.4
NOMINAL FLUX (lm)	1784.24	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	11.1, 37.3
LAMPS INSIDE	1	η up (%)	22.2	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	77.8	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-04-16

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.750m [K=1.0000]  
 Remarks:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	355.1	357.4	351.3	356.3	355.1	346.4	338.3	350.1	0- 10	33.62	33.62	1.88,1.88
20	353.8	352.3	330.9	347.3	356.3	332.8	307.1	336.0	10- 20	98.21	131.8	7.39,7.39
30	344.8	335.6	296.4	326.1	348.1	310.4	265.0	312.2	20- 30	152.5	284.3	15.9,15.9
40	332.3	311.9	251.9	297.2	334.5	282.7	216.8	284.4	30- 40	191.2	475.5	26.7,26.7
50	315.6	282.7	201.5	263.5	317.3	250.5	166.8	249.1	40- 50	212.2	687.7	38.5,38.5
60	288.1	248.3	152.1	225.1	291.8	214.2	116.0	211.8	50- 60	214.7	902.4	50.6,50.6
70	247.0	206.4	103.2	180.9	254.2	172.9	68.20	169.7	60- 70	197.8	1100	61.7,61.7
80	197.7	159.8	57.24	134.7	205.1	130.2	27.09	126.8	70- 80	163.7	1264	70.8,70.8
90	157.9	117.7	20.30	95.65	161.2	104.8	12.67	99.40	80- 90	123.9	1388	77.8,77.8
100	138.0	101.6	14.20	83.17	140.5	90.18	12.93	84.87	90-100	100.4	1488	83.4,83.4
110	114.5	82.21	13.73	67.26	117.5	77.50	13.46	72.66	100-110	82.30	1570	88,88
120	102.3	74.22	13.83	61.24	104.8	70.36	14.22	67.32	110-120	67.91	1638	91.8,91.8
130	88.50	63.90	14.07	54.07	92.66	61.61	14.55	57.10	120-130	55.00	1693	94.9,94.9
140	73.37	49.55	14.46	45.93	77.34	51.22	14.90	43.29	130-140	40.32	1734	97.2,97.2
150	56.69	34.60	15.25	37.94	60.47	41.94	15.51	30.50	140-150	26.20	1760	98.6,98.6
160	40.23	23.45	16.59	30.40	45.95	33.32	17.08	22.57	150-160	15.00	1775	99.5,99.5
170	25.49	20.07	21.22	24.82	23.85	25.93	20.99	20.72	160-170	7.296	1782	99.9,99.9
180	14.74	21.71	24.33	22.63	14.74	21.70	24.37	22.63	170-180	2.079	1784	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 580.15 lm

%lum = 32.5%

%lamp = 32.5%

Conical surface Flux(120deg): 902.36 lm

%lum = 50.6%

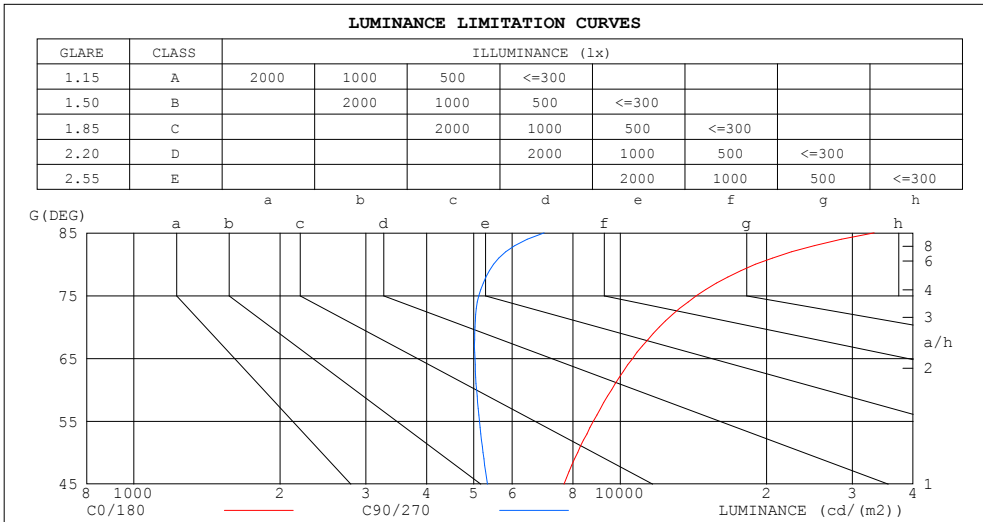
%lamp = 50.6%

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.1480A P:17.50W PF:0.9820 Freq:60.00Hz Lamp Flux:1784.24x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	33295	6978
80	18979	5494
75	14346	5123
70	12036	5028
65	10611	5029
60	9602	5069
55	8806	5139
50	8184	5225
45	7666	5333

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.5V I:0.1480A P:17.50W PF:0.9820 Freq:60.00Hz Lamp Flux:1784.24x1 lm														
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 5000K							TYPE:				WEIGHT:			
SPEC.:							DIM.:				SERIAL No.:			
MFR.: 革星							SUR.:24寸				Shielding Angle:			

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.379	.216	.068	.365	.208	.066	.339	.194	.062	.315	.182	.058	.293	.170	.055	
2.0	.330	.181	.055	.317	.175	.054	.293	.163	.051	.271	.152	.048	.251	.142	.045	
3.0	.293	.156	.047	.282	.151	.045	.260	.141	.043	.240	.132	.040	.222	.123	.038	
4.0	.264	.137	.040	.254	.133	.039	.234	.124	.037	.216	.116	.035	.199	.108	.033	
5.0	.240	.123	.035	.231	.119	.035	.213	.111	.033	.197	.104	.031	.181	.097	.029	
6.0	.220	.110	.032	.212	.107	.031	.196	.100	.029	.180	.094	.028	.166	.087	.026	
7.0	.203	.101	.028	.195	.097	.028	.181	.091	.026	.167	.085	.025	.153	.080	.023	
8.0	.189	.092	.026	.181	.089	.025	.168	.084	.024	.155	.078	.023	.143	.073	.021	
9.0	.176	.085	.024	.169	.082	.023	.156	.077	.022	.145	.072	.021	.133	.068	.020	
10.0	.165	.079	.022	.158	.077	.021	.147	.072	.020	.136	.067	.019	.125	.063	.018	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.360	.360	.360	.307	.307	.307	.210	.210	.210	.121	.121	.121	.039	.039	.039	
1.0	.356	.326	.300	.304	.280	.258	.208	.193	.178	.120	.111	.104	.038	.036	.034	
2.0	.349	.304	.265	.299	.261	.229	.205	.181	.160	.118	.105	.094	.038	.034	.031	
3.0	.342	.287	.244	.293	.248	.211	.201	.172	.148	.116	.101	.087	.037	.033	.029	
4.0	.334	.275	.230	.287	.238	.199	.197	.166	.140	.114	.097	.083	.037	.032	.027	
5.0	.327	.265	.220	.280	.229	.191	.193	.160	.135	.112	.094	.080	.036	.031	.026	
6.0	.319	.257	.213	.274	.223	.185	.189	.156	.131	.110	.092	.078	.035	.030	.026	
7.0	.312	.251	.208	.269	.217	.181	.186	.152	.128	.108	.090	.076	.035	.029	.025	
8.0	.306	.245	.204	.263	.213	.178	.182	.149	.126	.106	.088	.075	.034	.029	.025	
9.0	.299	.241	.201	.258	.209	.175	.179	.147	.124	.104	.087	.074	.034	.028	.025	
10.0	.294	.236	.198	.253	.205	.173	.176	.144	.123	.102	.085	.073	.033	.028	.024	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-16

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.5V I:0.1480A P:17.50W PF:0.9820 Freq:60.00Hz Lamp Flux:1784.24x1 lm										
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 5000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: 革星					SUR.:24寸			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	17.9	19.2	18.4	19.7	20.4	15.5	16.9	16.1	17.4	18.1
3H	20.5	21.7	21.1	22.3	23.0	17.2	18.5	17.8	19.0	19.7
4H	21.8	23.0	22.5	23.6	24.3	18.0	19.2	18.6	19.8	20.5
6H	23.3	24.4	23.9	25.0	25.8	18.7	19.8	19.3	20.4	21.1
8H	24.1	25.2	24.8	25.8	26.6	19.0	20.0	19.6	20.7	21.4
12H	25.0	26.0	25.7	26.7	27.4	19.2	20.2	19.9	20.9	21.6
4H 2H	18.5	19.6	19.1	20.2	20.9	16.9	18.0	17.5	18.6	19.3
3H	21.3	22.3	22.0	23.0	23.8	18.8	19.8	19.5	20.5	21.3
4H	22.9	23.8	23.6	24.5	25.3	19.8	20.7	20.5	21.4	22.2
6H	24.6	25.4	25.3	26.1	26.9	20.7	21.5	21.4	22.2	23.0
8H	25.5	26.3	26.2	27.0	27.8	21.0	21.8	21.8	22.5	23.4
12H	26.5	27.2	27.3	28.0	28.8	21.4	22.1	22.1	22.8	23.7
8H 4H	23.3	24.1	24.0	24.8	25.6	20.9	21.6	21.6	22.3	23.2
6H	25.3	25.9	26.0	26.7	27.5	22.1	22.8	22.9	23.5	24.4
8H	26.4	27.0	27.2	27.7	28.6	22.7	23.3	23.5	24.1	25.0
12H	27.7	28.2	28.5	29.0	29.9	23.3	23.8	24.0	24.6	25.5
12H 4H	23.3	24.0	24.0	24.8	25.6	21.2	21.9	21.9	22.6	23.5
6H	25.4	26.0	26.2	26.8	27.7	22.6	23.2	23.4	24.0	24.9
8H	26.7	27.2	27.4	27.9	28.9	23.4	23.9	24.2	24.7	25.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.3 / - 0.5				

CIE Pub.117, 1784 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.0)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-16

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:120.5V I:0.1480A P:17.50W PF:0.9820 Freq:60.00Hz Lamp Flux:1784.24x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

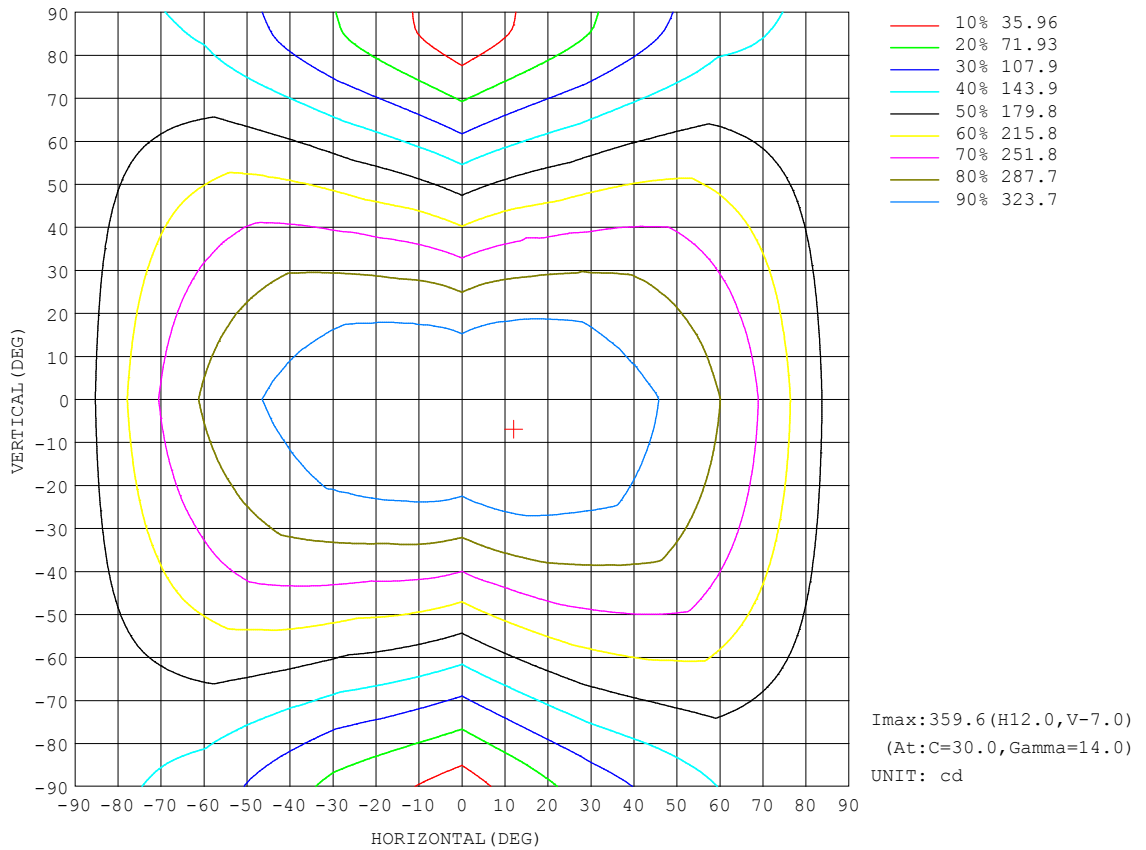
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	34	27	45	34	27	43	32	26	19
0.80	56	43	35	54	42	34	51	40	33	25
1.00	63	50	42	61	49	41	57	49	40	31
1.25	70	58	49	68	56	48	63	53	46	36
1.50	75	63	55	73	61	53	67	58	51	40
2.00	83	72	63	79	69	62	73	65	58	46
2.50	87	77	69	84	74	67	77	69	63	50
3.00	91	82	74	87	79	72	80	73	68	53
4.00	96	88	81	92	85	79	84	78	73	58
5.00	99	92	86	94	88	83	86	81	77	61
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.5V I:0.1480A P:17.50W PF:0.9820 Freq:60.00Hz Lamp Flux:1784.24x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

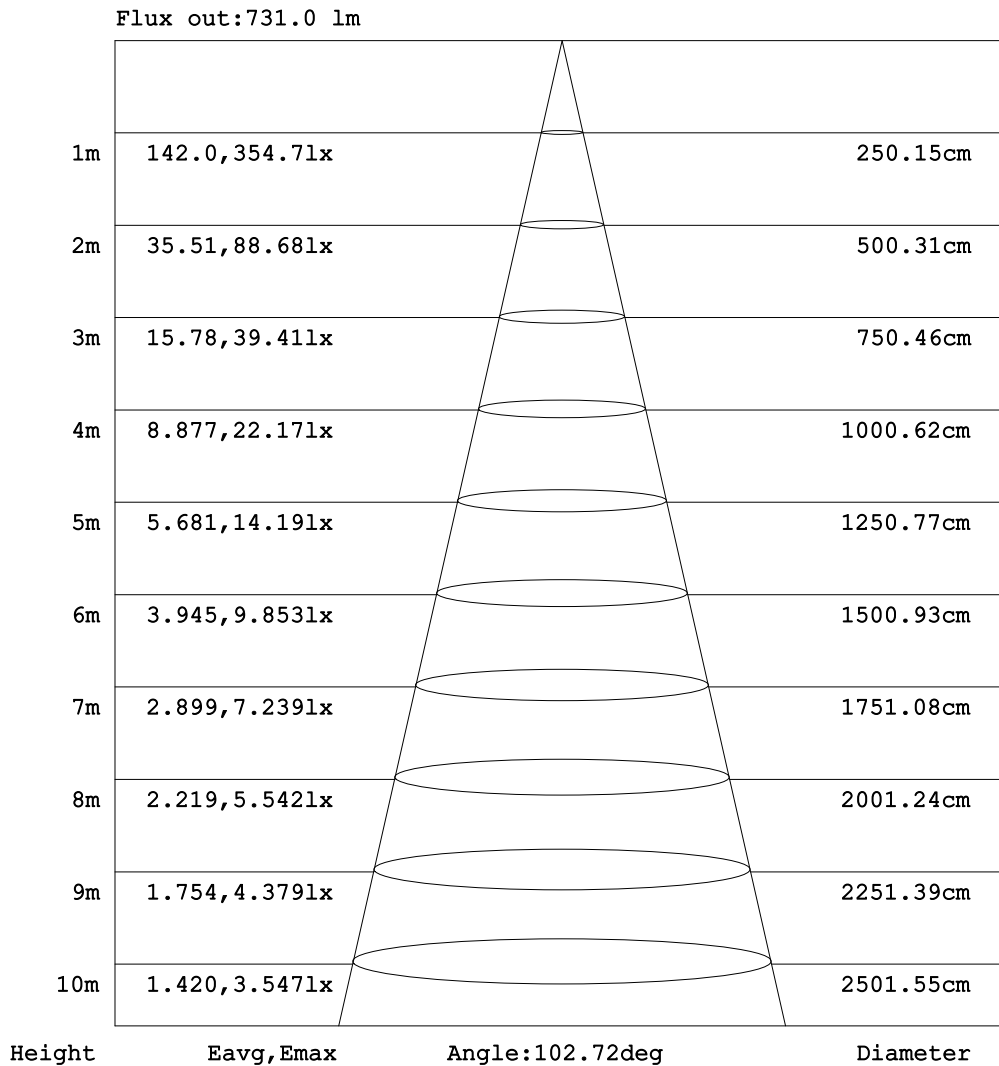


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-04-16

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.750m [K=1.0000]  
 Remarks:

**AAI Figure**

Test:U:120.5V I:0.1480A P:17.50W PF:0.9820 Freq:60.00Hz Lamp Flux:1784.24x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:



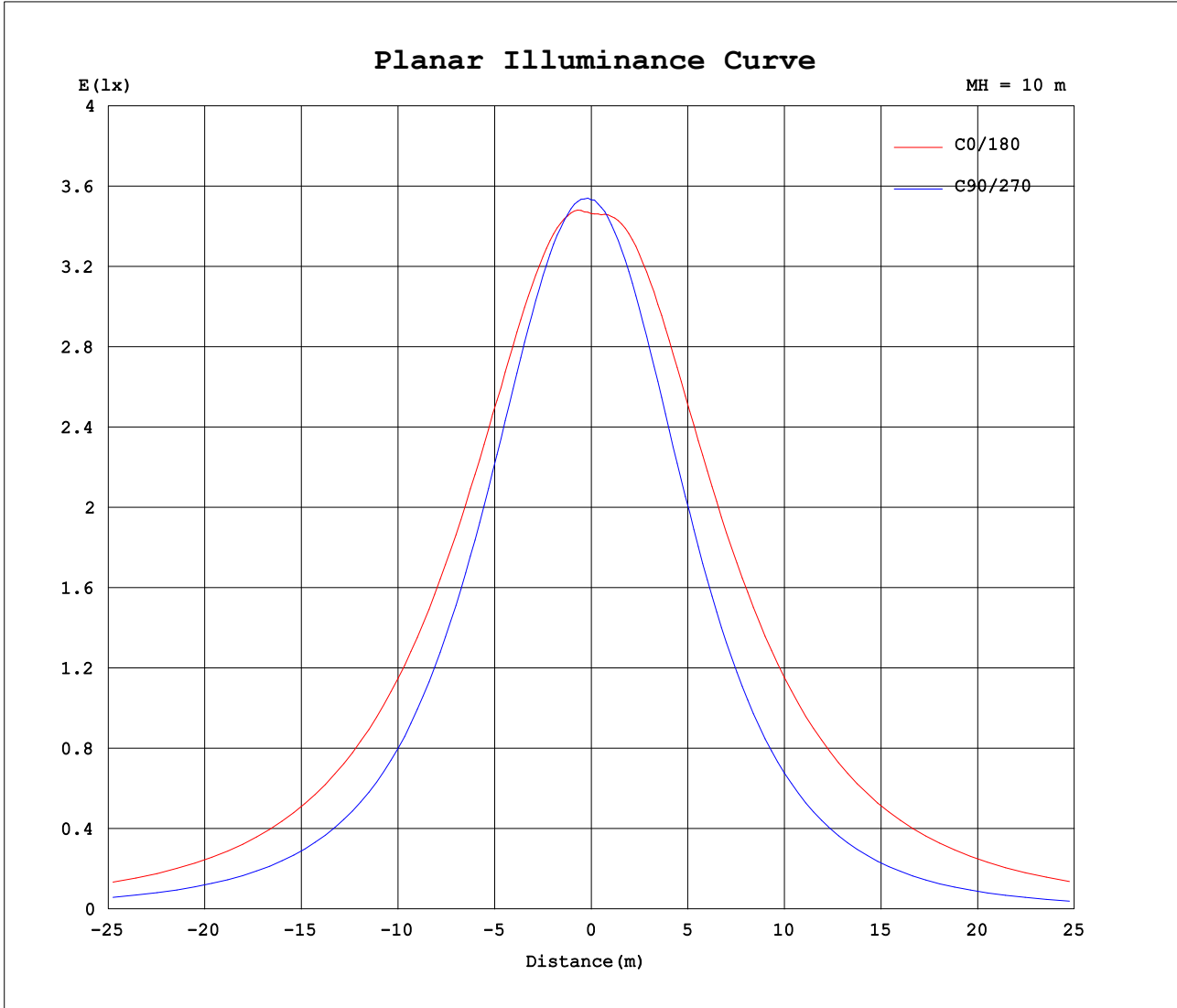
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-16

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:



Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-04-16

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.750m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.1480A P:17.50W PF:0.9820 Freq:60.00Hz Lamp Flux:1784.24x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	346	349	352	353	354	353	346	349	352	353	354	353							
5	352	354	355	355	356	355	350	349	349	348	351	354							
10	355	359	356	351	355	358	355	349	343	338	346	354							
15	356	360	353	343	350	356	357	347	335	324	337	352							
20	354	357	347	331	342	353	356	342	323	307	326	346							
25	349	352	338	315	329	347	353	336	309	287	311	339							
30	345	346	325	296	314	338	348	327	293	265	295	330							
35	339	338	311	275	297	328	341	318	276	241	277	319							
40	332	329	295	252	278	317	334	308	258	217	261	308							
45	325	319	277	226	258	304	326	296	239	192	239	295							
50	316	307	259	202	237	290	317	283	218	167	217	282							
55	303	294	239	177	215	275	306	269	198	142	196	266							
60	288	278	219	152	193	257	292	251	177	116	175	249							
65	269	259	198	128	171	236	274	233	155	91.7	153	229							
70	247	237	176	103	148	214	254	212	134	68.2	131	208							
75	223	213	153	79.6	124	192	230	190	113	46.2	110	186							
80	198	189	131	57.2	101	169	205	168	92.9	27.1	90.1	163							
85	174	166	108	36.5	80.2	146	181	147	77.8	14.1	74.1	143							
90	158	145	90.3	20.3	63.4	128	161	136	73.3	12.7	68.4	130							
95	148	134	81.5	14.4	57.2	119	150	129	70.3	12.8	65.7	122							
100	138	126	77.5	14.2	54.6	112	140	115	64.9	12.9	60.4	109							
105	126	112	70.9	13.9	49.9	97.2	129	104	58.7	13.2	53.6	99.1							
110	114	102	62.9	13.7	44.5	90.0	118	99.1	55.9	13.5	50.0	95.4							
115	108	97.4	58.8	13.8	42.1	86.8	111	94.8	53.9	13.8	49.0	91.6							
120	102	92.9	55.5	13.8	39.6	82.9	105	90.5	50.3	14.2	47.7	86.9							
125	96.0	87.0	52.3	14.0	36.9	78.7	98.9	85.4	46.7	14.5	44.4	81.2							
130	88.5	80.4	47.4	14.1	34.6	73.5	92.7	79.4	43.8	14.5	39.1	75.1							
135	81.0	73.5	40.8	14.1	32.9	66.9	85.9	71.9	40.9	14.7	33.9	67.2							
140	73.4	64.9	34.2	14.5	31.7	60.1	77.3	64.2	38.3	14.9	29.6	57.0							
145	65.1	55.0	29.0	14.8	30.3	53.5	68.3	57.3	36.0	15.1	26.2	47.0							
150	56.7	44.2	25.0	15.2	28.6	47.3	60.5	50.7	33.2	15.5	23.5	37.5							
155	48.3	33.8	22.4	15.7	26.8	41.5	53.0	44.6	30.6	15.9	21.8	30.3							
160	40.2	26.2	20.7	16.6	25.1	35.7	46.0	38.5	28.2	17.1	20.4	24.7							
165	33.3	21.4	19.9	18.8	23.7	30.8	37.0	32.3	26.2	19.0	20.9	21.3							
170	25.5	18.6	21.5	21.2	23.0	26.6	23.9	27.4	24.5	21.0	21.9	19.5							
175	15.7	16.9	22.9	23.4	23.1	23.4	17.3	22.9	23.1	22.9	22.9	20.2							
180	14.7	19.8	23.6	24.3	23.7	21.6	14.7	19.9	23.6	24.4	23.7	21.6							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-16

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks: