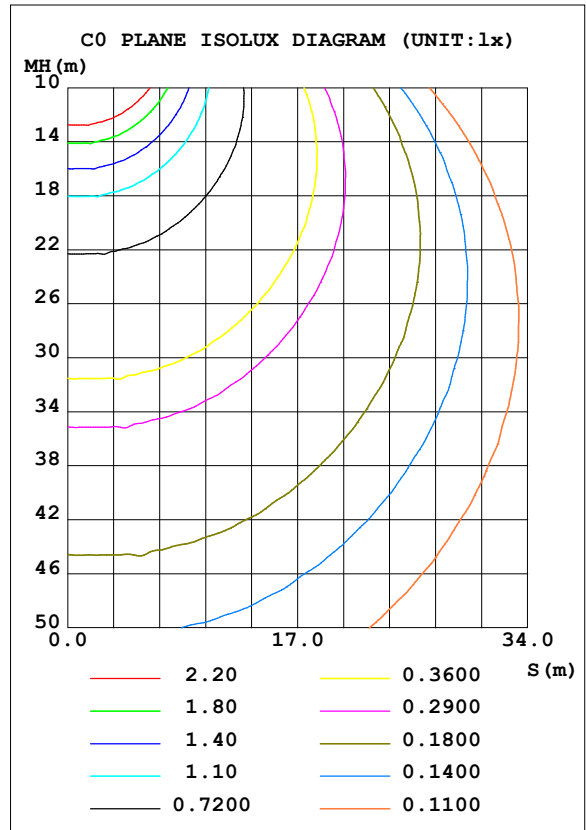
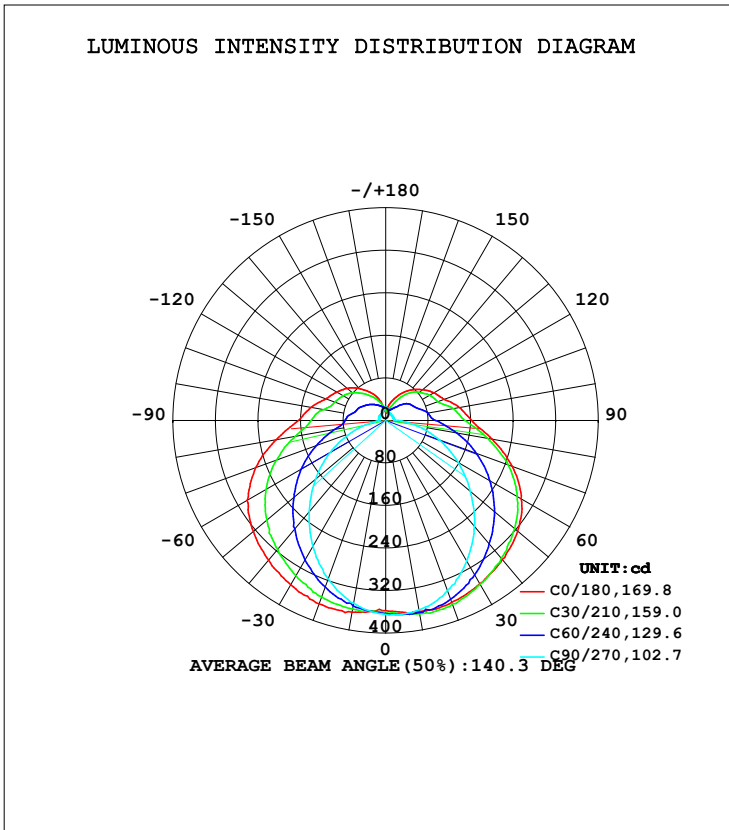


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.1440A P:17.00W PF:0.9810 Freq:60.00Hz Lamp Flux:1833.33x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 107.84 lm/W			
MODEL		I _{max} (cd)	371.6	S/MH (C0/180)	1.50
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.13
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1833.3	η UP, DN (C0-180)	11.1, 40.4
NOMINAL FLUX (lm)	1833.33	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	11.1, 37.4
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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	364.6	368.2	362.1	364.7	365.9	357.1	349.2	361.2	0- 10	34.65	34.65	1.89,1.89
20	364.0	362.3	340.5	355.9	367.0	343.3	317.2	346.7	10- 20	101.2	135.8	7.41,7.41
30	354.6	345.5	305.3	334.3	357.3	320.2	273.3	321.3	20- 30	157.0	292.8	16,16
40	341.5	320.7	259.9	304.1	342.6	291.1	223.7	290.9	30- 40	196.7	489.5	26.7,26.7
50	324.0	291.9	208.0	268.8	325.0	258.7	172.5	255.7	40- 50	218.2	707.7	38.6,38.6
60	294.1	256.1	157.4	229.0	300.9	221.7	120.6	217.1	50- 60	220.7	928.4	50.6,50.6
70	253.2	213.5	107.3	183.2	260.0	178.9	70.86	173.8	60- 70	203.3	1132	61.7,61.7
80	202.8	165.6	59.74	136.3	209.2	134.8	28.62	129.0	70- 80	168.1	1300	70.9,70.9
90	161.9	121.9	22.23	96.26	164.3	108.5	13.62	101.3	80- 90	127.1	1427	77.8,77.8
100	141.2	105.2	15.64	83.68	142.8	93.13	13.62	86.38	90-100	103.0	1530	83.4,83.4
110	117.1	84.93	14.90	67.91	119.7	79.96	14.21	74.04	100-110	84.34	1614	88,88
120	104.6	76.54	14.85	61.84	106.8	72.52	14.87	68.70	110-120	69.57	1684	91.8,91.8
130	90.19	66.00	14.66	54.87	94.50	63.56	15.11	58.31	120-130	56.35	1740	94.9,94.9
140	75.10	51.36	14.80	46.49	78.79	53.10	15.41	44.22	130-140	41.33	1781	97.2,97.2
150	58.40	35.58	15.48	38.39	62.28	43.22	16.02	31.19	140-150	26.89	1808	98.6,98.6
160	41.12	24.06	16.86	30.77	46.51	34.13	17.73	23.27	150-160	15.36	1824	99.5,99.5
170	26.67	20.46	21.70	25.35	23.55	26.73	21.69	21.43	160-170	7.454	1831	99.9,99.9
180	15.24	22.04	25.01	23.33	15.24	22.02	25.06	23.33	170-180	2.137	1833	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 597.1 lm

%lum = 32.6%
%lamp = 32.6%

Conical surface Flux(120deg): 928.38 lm

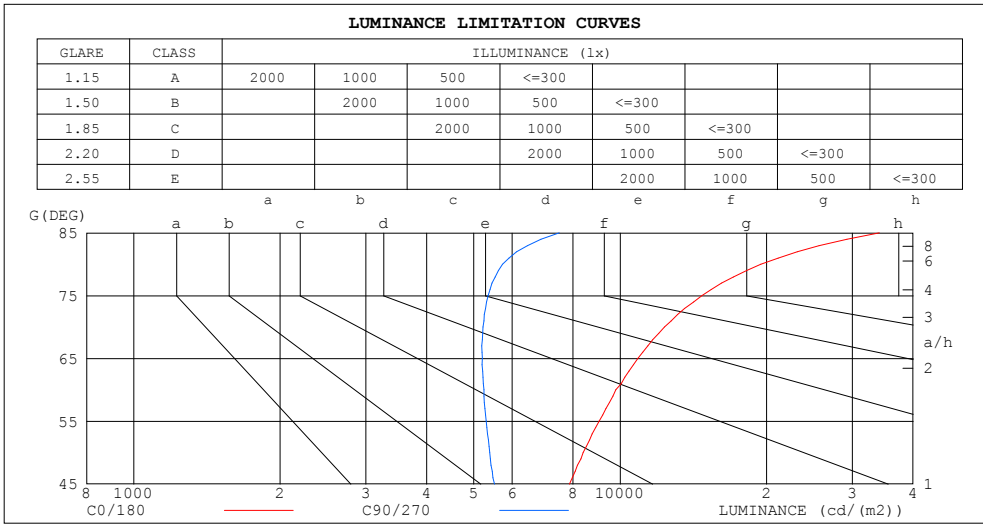
%lum = 50.6%
%lamp = 50.6%

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

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:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.1440A P:17.00W PF:0.9810 Freq:60.00Hz Lamp Flux:1833.33x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3500K	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:

WEC AND CCEC

Test:U:120.5V I:0.1440A P:17.00W PF:0.9810 Freq:60.00Hz Lamp Flux:1833.33x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3500K	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	.329	.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	.359	.359	.359	.307	.307	.307	.210	.210	.210	.120	.120	.120	.039	.039	.039	
1.0	.355	.326	.299	.304	.280	.257	.208	.192	.178	.120	.111	.104	.038	.036	.033	
2.0	.349	.303	.265	.299	.261	.229	.205	.181	.160	.118	.105	.094	.038	.034	.031	
3.0	.341	.287	.243	.293	.247	.211	.201	.172	.148	.116	.100	.087	.037	.033	.029	
4.0	.334	.274	.229	.286	.237	.199	.197	.165	.140	.114	.097	.083	.037	.032	.027	
5.0	.326	.265	.219	.280	.229	.191	.193	.160	.135	.112	.094	.080	.036	.031	.026	
6.0	.319	.257	.212	.274	.222	.185	.189	.156	.131	.110	.092	.078	.035	.030	.026	
7.0	.312	.250	.207	.268	.217	.181	.185	.152	.128	.108	.090	.076	.035	.029	.025	
8.0	.305	.245	.203	.263	.212	.177	.182	.149	.126	.106	.088	.075	.034	.029	.025	
9.0	.299	.240	.200	.258	.208	.175	.178	.146	.124	.104	.086	.074	.034	.028	.025	
10.0	.293	.236	.198	.253	.205	.173	.175	.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:0.1440A P:17.00W PF:0.9810 Freq:60.00Hz Lamp Flux:1833.33x1 lm										
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3500K					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	15.6	16.9	16.1	17.5	18.1
3H	20.5	21.7	21.1	22.3	23.0	17.3	18.5	17.9	19.1	19.8
4H	21.9	23.0	22.5	23.6	24.3	18.1	19.2	18.7	19.8	20.5
6H	23.3	24.4	23.9	25.0	25.8	18.7	19.8	19.4	20.5	21.2
8H	24.1	25.2	24.8	25.8	26.6	19.0	20.1	19.7	20.7	21.5
12H	25.0	26.0	25.7	26.7	27.4	19.3	20.3	20.0	21.0	21.7
4H 2H	18.5	19.6	19.1	20.2	21.0	16.9	18.0	17.5	18.7	19.4
3H	21.4	22.4	22.0	23.0	23.8	18.9	19.9	19.5	20.5	21.3
4H	22.9	23.8	23.6	24.5	25.3	19.9	20.8	20.5	21.5	22.2
6H	24.6	25.4	25.3	26.1	26.9	20.7	21.6	21.4	22.3	23.1
8H	25.5	26.3	26.2	27.0	27.8	21.1	21.9	21.8	22.6	23.4
12H	26.5	27.2	27.3	28.0	28.8	21.5	22.2	22.2	22.9	23.8
8H 4H	23.3	24.1	24.0	24.8	25.6	20.9	21.7	21.6	22.4	23.2
6H	25.3	25.9	26.0	26.7	27.6	22.2	22.8	22.9	23.6	24.4
8H	26.4	27.0	27.2	27.8	28.6	22.8	23.4	23.5	24.1	25.0
12H	27.7	28.2	28.5	29.0	29.9	23.4	23.9	24.1	24.6	25.6
12H 4H	23.3	24.1	24.1	24.8	25.6	21.2	21.9	21.9	22.7	23.5
6H	25.4	26.0	26.2	26.8	27.7	22.7	23.3	23.4	24.0	24.9
8H	26.7	27.2	27.4	28.0	28.9	23.5	24.0	24.2	24.7	25.7
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	+ 0.3 / - 0.4					+ 0.3 / - 0.5				

CIE Pub.117, 1833 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.1)

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:0.1440A P:17.00W PF:0.9810 Freq:60.00Hz Lamp Flux:1833.33x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

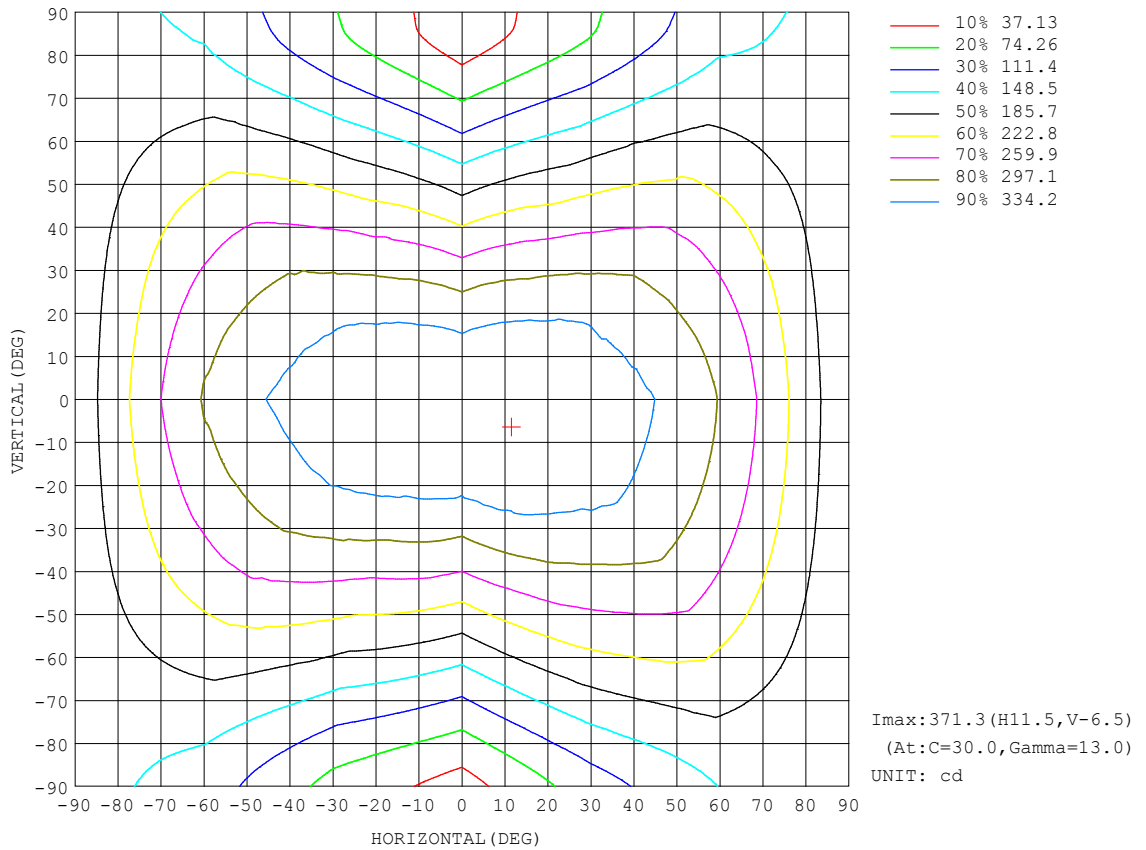
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	34	27	45	34	27	43	33	26	19
0.80	56	43	35	54	42	34	51	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

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:

ISOCANDELA DIAGRAM

Test:U:120.5V I:0.1440A P:17.00W PF:0.9810 Freq:60.00Hz Lamp Flux:1833.33x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

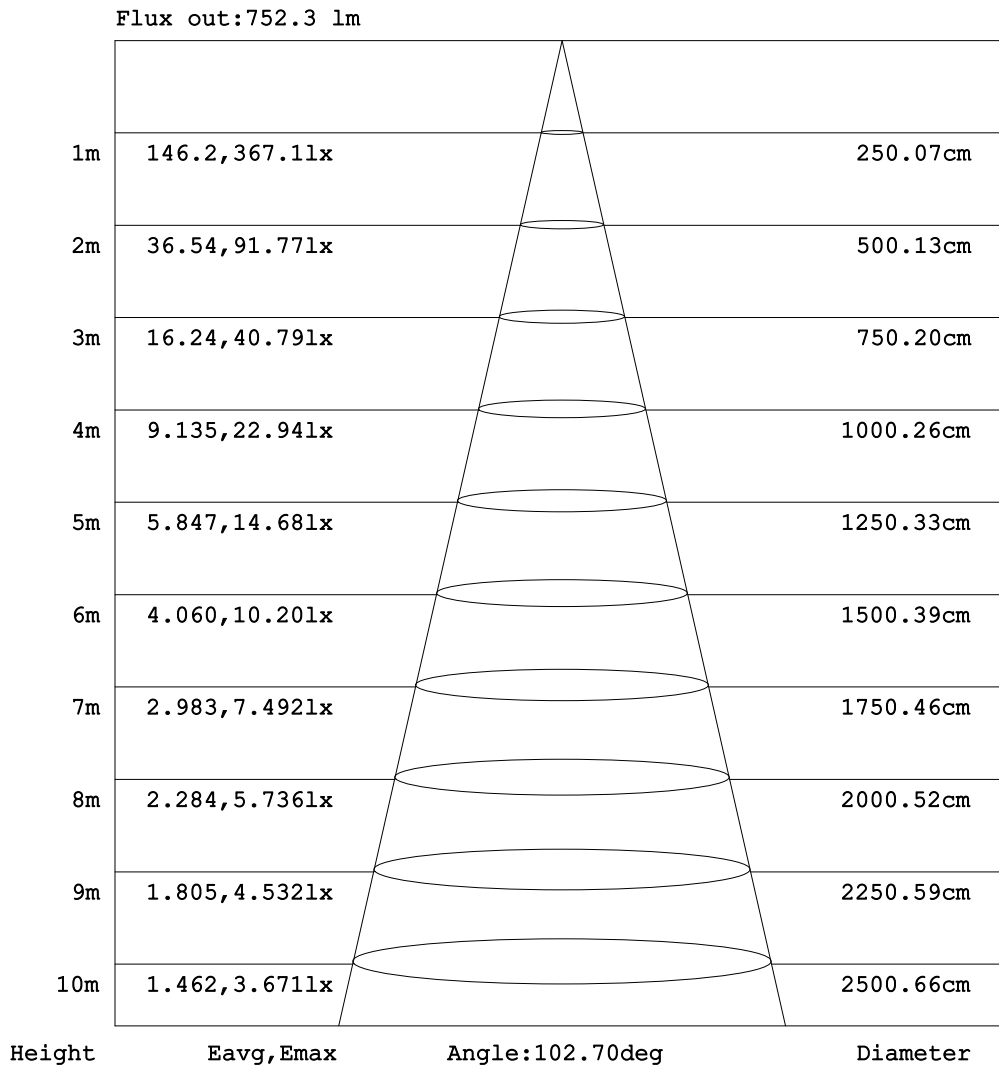


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-04-16

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:0.1440A P:17.00W PF:0.9810 Freq:60.00Hz Lamp Flux:1833.33x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

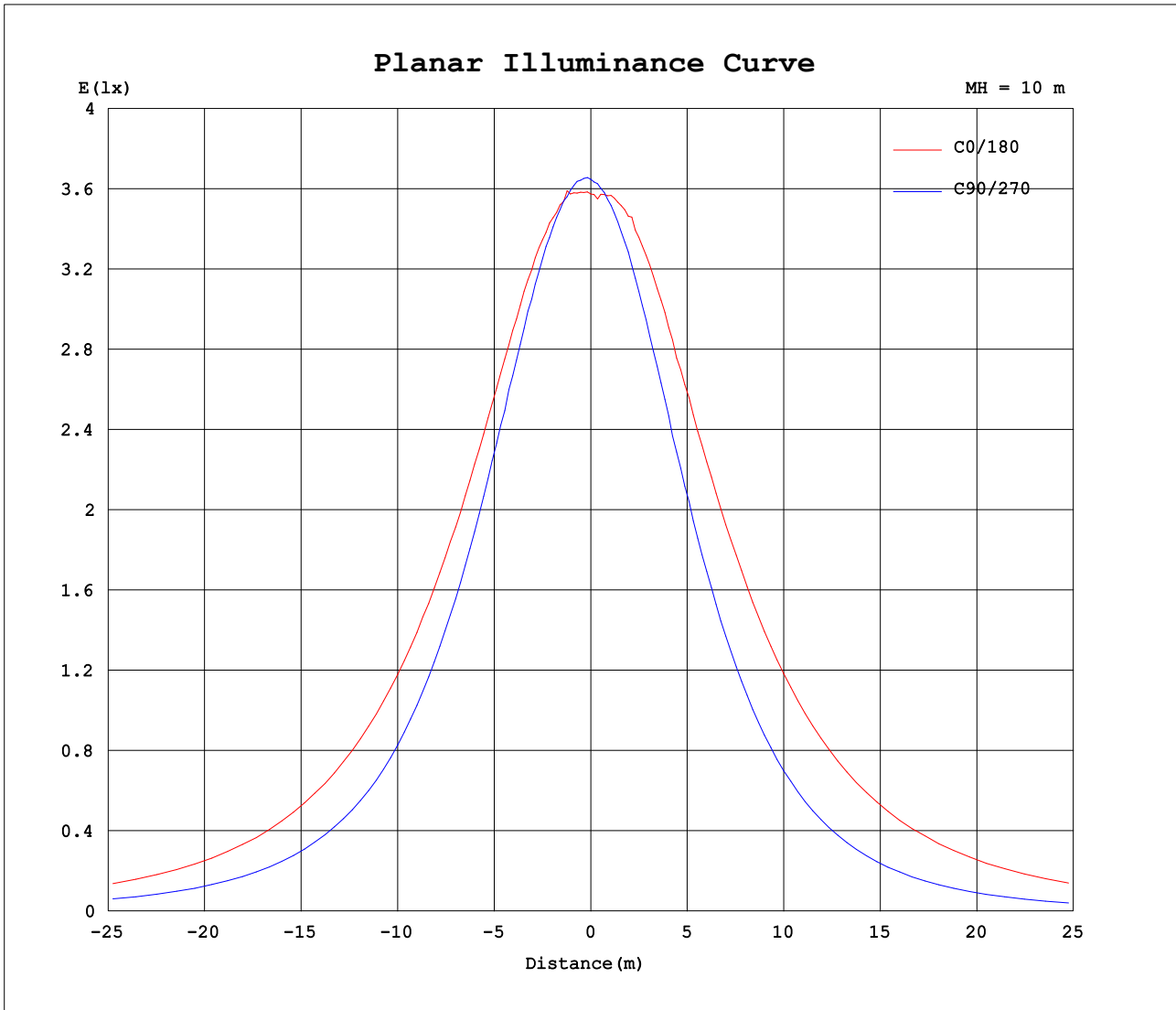


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1440A P:17.00W PF:0.9810 Freq:60.00Hz Lamp Flux:1833.33x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3500K	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	357	360	363	365	365	364	357	360	363	365	365	364							
5	362	365	366	366	366	366	361	360	359	359	363	365							
10	365	370	367	362	364	366	366	360	354	349	356	366							
15	367	371	364	354	359	367	368	358	346	335	346	364							
20	364	367	357	340	350	361	367	353	333	317	335	358							
25	360	363	348	325	337	357	363	346	319	297	319	349							
30	355	356	335	305	321	347	357	337	303	273	303	340							
35	348	348	320	283	303	336	350	328	286	249	285	328							
40	341	338	303	260	284	325	343	316	266	224	264	317							
45	334	327	286	234	263	312	335	306	247	198	244	304							
50	324	317	267	208	241	297	325	292	225	173	221	290							
55	312	303	247	183	218	280	313	277	205	147	200	274							
60	294	286	226	157	196	262	301	260	184	121	178	256							
65	276	267	205	132	172	241	281	241	161	95.1	155	237							
70	253	245	182	107	148	218	260	219	139	70.9	133	214							
75	229	219	159	83.1	124	195	235	197	117	48.3	111	191							
80	203	195	136	59.7	101	172	209	173	96.8	28.6	90.4	168							
85	178	170	113	39.2	79.6	149	184	152	81.2	15.2	74.1	147							
90	162	150	94.4	22.2	62.5	130	164	140	76.5	13.6	68.4	134							
95	151	138	85.1	16.1	56.3	121	153	132	73.4	13.6	65.7	127							
100	141	130	80.8	15.6	53.7	114	143	119	67.5	13.6	60.3	112							
105	129	115	74.1	15.2	49.5	99.1	131	107	61.0	13.9	53.5	102							
110	117	104	65.6	14.9	44.1	91.8	120	102	58.2	14.2	50.0	98.0							
115	111	100	60.9	14.9	41.5	88.2	113	97.4	55.9	14.5	49.5	94.2							
120	105	95.5	57.6	14.8	39.4	84.3	107	92.8	52.2	14.9	48.2	89.2							
125	97.9	89.1	54.4	14.8	37.1	80.1	101	87.7	48.9	15.0	44.8	83.3							
130	90.2	82.5	49.5	14.7	34.8	74.9	94.5	81.3	45.8	15.1	39.6	77.0							
135	82.9	76.0	42.5	14.6	33.2	68.2	87.0	73.7	42.6	15.2	34.4	68.9							
140	75.1	67.4	35.3	14.8	31.7	61.3	78.8	66.5	39.7	15.4	30.0	58.4							
145	67.3	57.2	29.8	15.1	30.0	54.6	70.3	59.4	36.9	15.6	26.5	48.1							
150	58.4	45.4	25.8	15.5	28.5	48.3	62.3	52.4	34.0	16.0	23.9	38.5							
155	49.3	34.7	23.1	16.0	26.7	42.4	54.5	45.8	31.5	16.4	22.2	31.2							
160	41.1	26.9	21.3	16.9	25.0	36.5	46.5	39.0	29.3	17.7	21.1	25.4							
165	34.1	21.8	20.4	19.1	23.8	31.5	36.9	33.1	27.2	19.7	21.7	21.9							
170	26.7	19.1	21.8	21.7	23.4	27.3	23.6	28.1	25.4	21.7	22.7	20.1							
175	16.6	17.0	23.1	23.9	23.7	24.1	17.9	23.4	23.9	23.6	23.5	20.8							
180	15.2	19.9	24.2	25.0	24.4	22.3	15.2	19.9	24.1	25.1	24.4	22.3							

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: