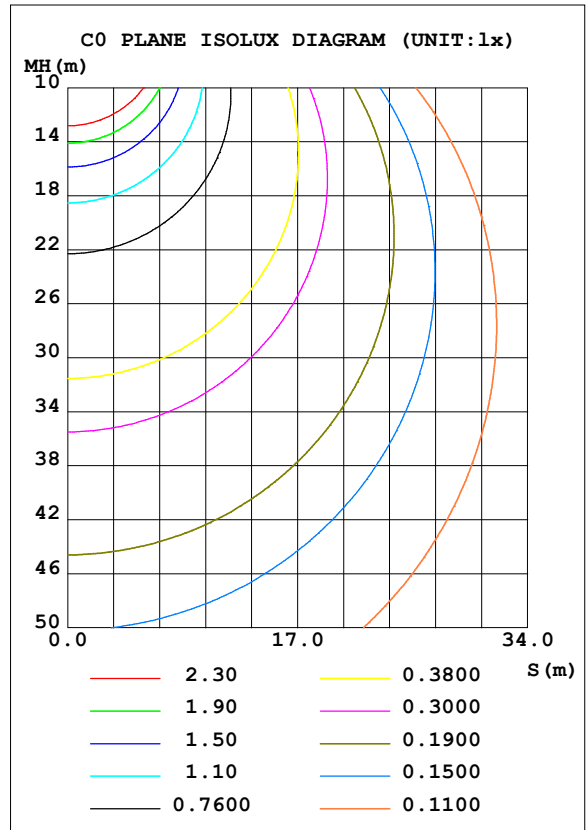
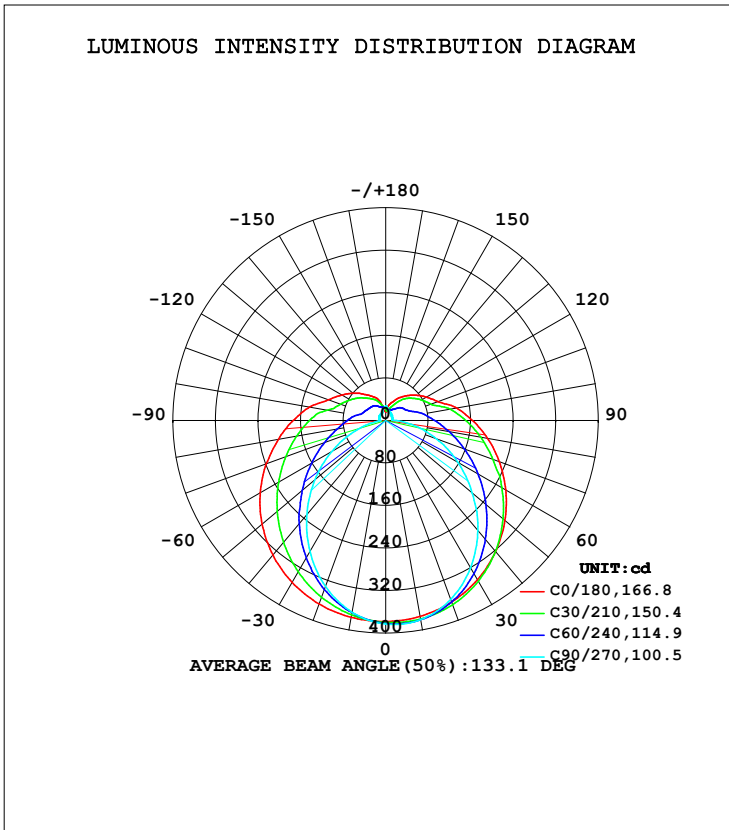


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.1490A P:17.60W PF:0.9830 Freq:60.00Hz Lamp Flux:1739.79x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 98.85 lm/W			
MODEL		I <sub>max</sub> (cd)	384.3	S/MH (C0/180)	1.40
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.12
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1739.8	η UP, DN (C0-180)	10.6, 40.9
NOMINAL FLUX (lm)	1739.79	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	10.6, 37.9
LAMPS INSIDE	1	η up (%)	21.2	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	78.8	CIBSE SHR MAX	1.50



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	373.9	379.7	380.3	379.8	375.8	369.0	366.6	372.4	0- 10	36.09	36.09	2.07,2.07
20	363.2	365.9	358.0	363.6	367.1	345.9	331.7	349.8	10- 20	103.6	139.6	8.03,8.03
30	345.6	340.7	319.5	335.4	351.7	313.7	284.9	317.4	20- 30	157.8	297.5	17.1,17.1
40	321.7	306.7	269.8	298.6	330.3	276.1	230.6	278.9	30- 40	193.2	490.7	28.2,28.2
50	292.8	267.3	212.8	257.0	303.6	235.6	173.8	237.3	40- 50	207.8	698.5	40.1,40.1
60	260.7	226.5	156.8	214.4	272.4	196.8	117.0	197.4	50- 60	203.5	902.0	51.8,51.8
70	227.5	186.4	102.2	172.9	239.6	161.3	65.76	161.0	60- 70	184.5	1086	62.4,62.4
80	194.6	151.3	53.60	136.4	205.1	131.3	24.66	130.2	70- 80	156.8	1243	71.5,71.5
90	163.3	121.7	18.02	107.4	174.1	107.9	11.62	105.1	80- 90	127.6	1371	78.8,78.8
100	135.7	97.92	12.01	85.94	145.5	84.17	12.60	82.16	90-100	102.7	1474	84.7,84.7
110	104.9	71.03	12.30	62.59	114.4	67.72	13.59	64.48	100-110	77.46	1551	89.2,89.2
120	88.29	59.79	13.23	53.74	95.99	59.16	14.84	57.35	110-120	59.75	1611	92.6,92.6
130	74.14	51.43	14.47	47.47	80.01	52.32	15.38	49.09	120-130	47.07	1658	95.3,95.3
140	61.25	40.97	15.72	41.70	64.81	45.56	15.83	38.36	130-140	34.80	1693	97.3,97.3
150	48.91	30.70	17.06	36.11	52.94	39.01	16.44	28.65	140-150	23.46	1716	98.6,98.6
160	36.89	23.18	18.59	29.88	42.26	31.72	18.13	22.15	150-160	14.19	1730	99.5,99.5
170	27.96	20.78	23.67	25.83	19.06	26.35	23.26	20.60	160-170	7.217	1738	99.9,99.9
180	17.17	24.38	27.13	24.32	17.18	24.36	27.15	24.33	170-180	2.208	1740	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 594.08 lm

%lum = 34.1%  
%lamp = 34.1%

Conical surface Flux(120deg): 901.99 lm

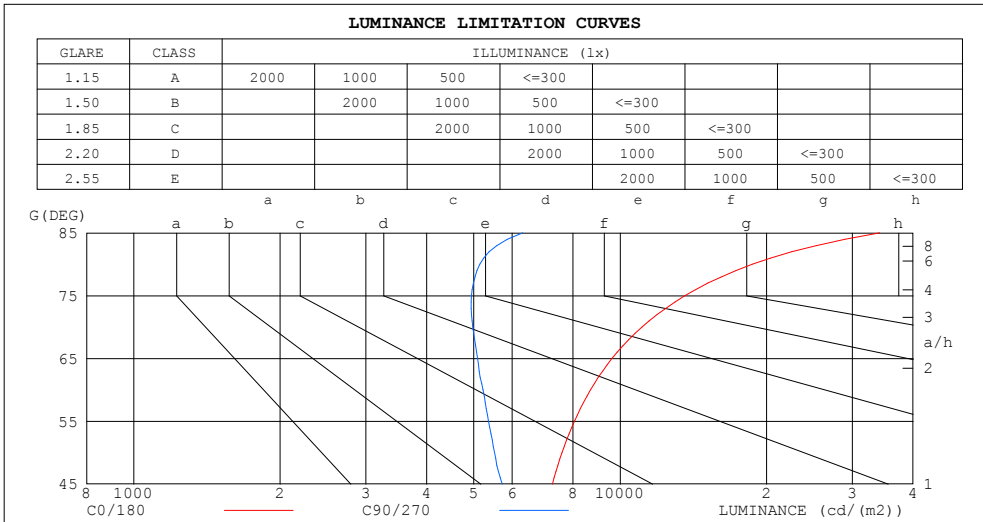
%lum = 51.8%  
%lamp = 51.8%

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:0.1490A P:17.60W PF:0.9830 Freq:60.00Hz Lamp Flux:1739.79x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 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	34128	6306
80	18676	5144
75	13588	4945
70	11087	4980
65	9625	5090
60	8690	5226
55	8053	5361
50	7593	5517
45	7258	5724

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:0.1490A P:17.60W PF:0.9830 Freq:60.00Hz Lamp Flux:1739.79x1 lm														
NAME: LVF1R-24-18-95C-MVUD-BL 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	.380	.216	.068	.366	.209	.066	.340	.195	.062	.317	.183	.059	.295	.171	.055	
2.0	.328	.180	.055	.316	.174	.054	.293	.163	.051	.272	.152	.048	.252	.142	.045	
3.0	.292	.155	.047	.281	.150	.045	.260	.141	.043	.240	.132	.040	.222	.123	.038	
4.0	.263	.137	.040	.253	.132	.039	.234	.124	.037	.216	.116	.035	.200	.108	.033	
5.0	.239	.122	.035	.230	.118	.034	.213	.111	.033	.196	.104	.031	.181	.097	.029	
6.0	.219	.110	.031	.211	.107	.031	.195	.100	.029	.180	.094	.028	.166	.088	.026	
7.0	.202	.100	.028	.195	.097	.028	.180	.091	.026	.167	.085	.025	.154	.080	.023	
8.0	.188	.092	.026	.181	.089	.025	.167	.084	.024	.155	.078	.023	.143	.073	.021	
9.0	.175	.085	.024	.169	.082	.023	.156	.077	.022	.145	.072	.021	.134	.068	.020	
10.0	.164	.079	.022	.158	.076	.021	.146	.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	.352	.352	.352	.301	.301	.301	.205	.205	.205	.118	.118	.118	.038	.038	.038	
1.0	.348	.318	.292	.298	.273	.251	.204	.188	.174	.117	.109	.101	.038	.035	.033	
2.0	.341	.296	.258	.292	.255	.223	.200	.176	.155	.115	.102	.091	.037	.033	.030	
3.0	.334	.279	.236	.286	.241	.205	.196	.167	.144	.113	.098	.085	.036	.032	.028	
4.0	.326	.267	.222	.280	.231	.193	.192	.161	.136	.111	.094	.080	.036	.031	.026	
5.0	.318	.257	.212	.273	.222	.184	.188	.155	.130	.109	.091	.077	.035	.030	.025	
6.0	.311	.249	.205	.267	.216	.179	.184	.151	.126	.107	.089	.075	.035	.029	.025	
7.0	.304	.243	.200	.261	.210	.174	.181	.147	.123	.105	.087	.073	.034	.028	.024	
8.0	.297	.237	.196	.256	.206	.171	.177	.144	.121	.103	.085	.072	.033	.028	.024	
9.0	.291	.232	.193	.251	.202	.168	.174	.142	.119	.101	.084	.071	.033	.027	.024	
10.0	.285	.228	.190	.246	.198	.166	.171	.139	.118	.099	.082	.070	.032	.027	.023	

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:0.1490A P:17.60W PF:0.9830 Freq:60.00Hz Lamp Flux:1739.79x1 lm										
NAME: LVF1R-24-18-95C-MVUD-BL 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	17.5	18.8	18.0	19.3	20.0	15.5	16.8	16.0	17.4	18.0
3H	20.0	21.3	20.6	21.8	22.5	17.1	18.4	17.7	18.9	19.6
4H	21.5	22.6	22.1	23.2	23.9	17.9	19.0	18.5	19.6	20.3
6H	23.1	24.2	23.7	24.8	25.5	18.5	19.6	19.1	20.2	20.9
8H	24.0	25.0	24.6	25.7	26.4	18.8	19.8	19.4	20.5	21.2
12H	25.0	26.0	25.6	26.7	27.4	19.0	20.1	19.7	20.7	21.4
4H 2H	18.1	19.2	18.7	19.8	20.5	16.6	17.8	17.2	18.4	19.1
3H	20.9	21.9	21.5	22.6	23.3	18.6	19.6	19.2	20.2	21.0
4H	22.5	23.5	23.2	24.1	24.9	19.5	20.4	20.2	21.1	21.9
6H	24.4	25.2	25.0	25.9	26.7	20.4	21.2	21.1	21.9	22.7
8H	25.4	26.1	26.1	26.8	27.7	20.8	21.5	21.5	22.2	23.1
12H	26.5	27.2	27.2	28.0	28.8	21.1	21.8	21.8	22.5	23.4
8H 4H	22.9	23.7	23.6	24.4	25.2	20.6	21.3	21.3	22.0	22.9
6H	25.1	25.7	25.8	26.5	27.3	21.8	22.5	22.5	23.2	24.1
8H	26.3	26.9	27.0	27.6	28.5	22.4	23.0	23.2	23.8	24.6
12H	27.7	28.2	28.5	29.0	29.9	23.0	23.5	23.8	24.3	25.2
12H 4H	23.0	23.7	23.7	24.4	25.2	20.9	21.6	21.6	22.3	23.2
6H	25.2	25.8	26.0	26.6	27.4	22.4	22.9	23.1	23.7	24.6
8H	26.6	27.1	27.3	27.8	28.7	23.2	23.7	23.9	24.4	25.3
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 / - 0.4				

CIE Pub.117, 1740 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.9)

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:0.1490A P:17.60W PF:0.9830 Freq:60.00Hz Lamp Flux:1739.79x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

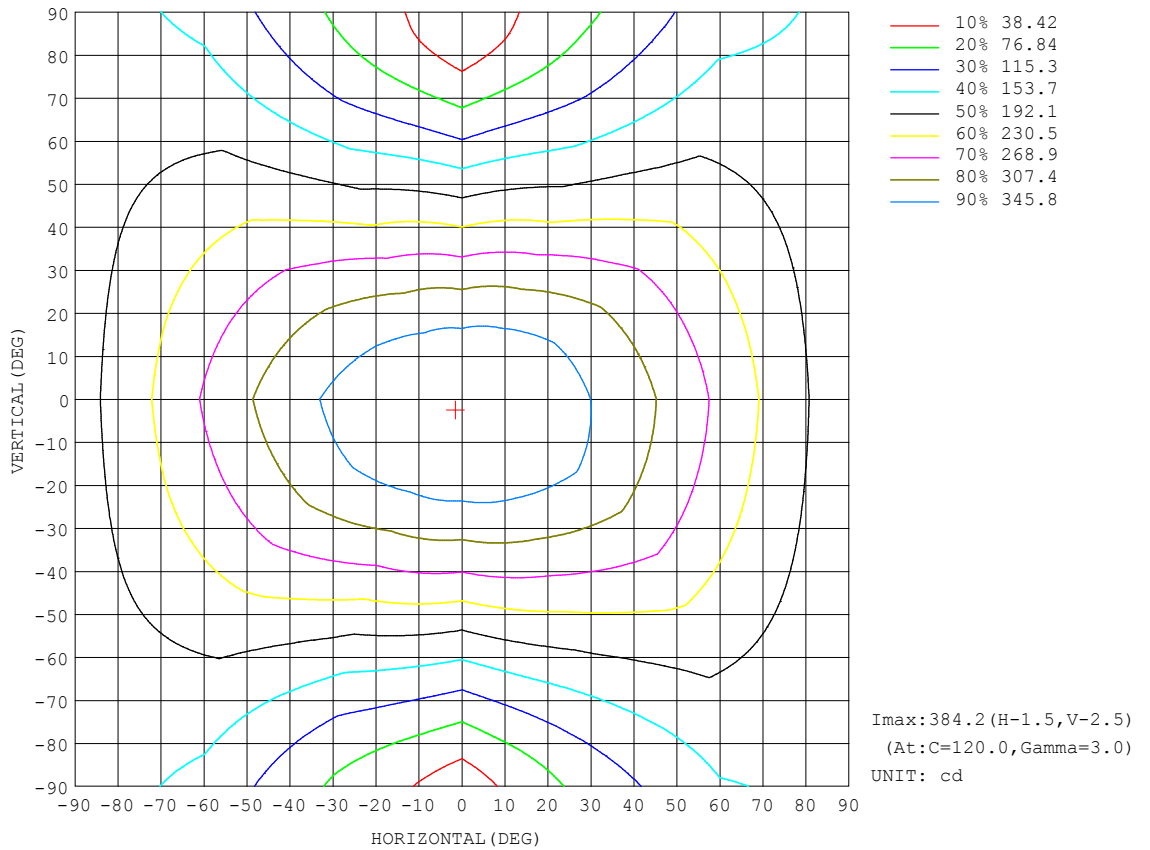
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	35	28	46	35	28	44	34	27	20
0.80	57	44	36	55	43	35	52	41	34	26
1.00	64	51	43	62	50	42	58	50	41	32
1.25	71	58	50	69	57	49	64	54	47	37
1.50	76	64	55	73	62	54	68	59	52	41
2.00	83	72	64	80	70	62	74	66	59	47
2.50	88	78	70	84	75	68	77	70	64	51
3.00	92	82	75	88	79	73	80	74	68	54
4.00	96	88	82	92	85	79	84	79	74	58
5.00	99	92	86	95	89	83	87	82	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:0.1490A P:17.60W PF:0.9830 Freq:60.00Hz Lamp Flux:1739.79x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

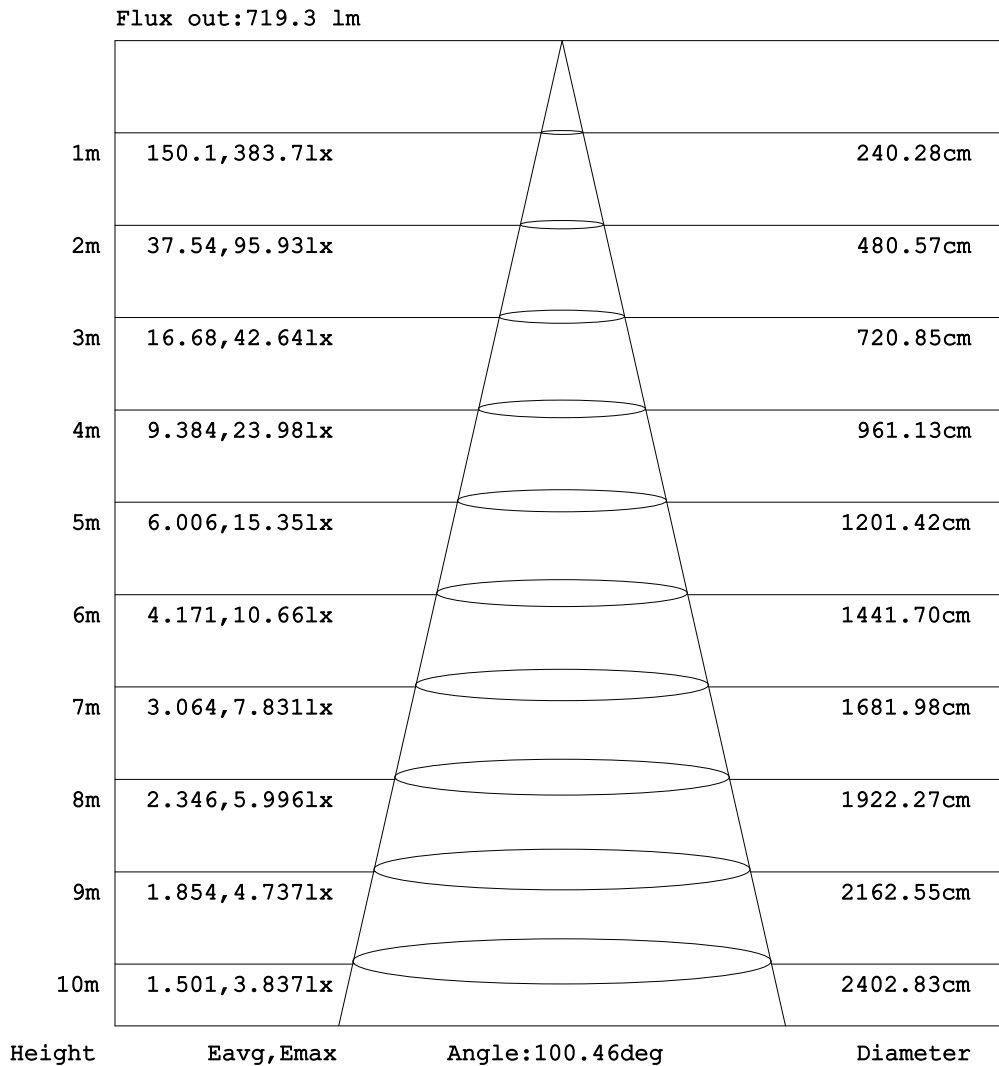


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-04-16

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:0.1490A P:17.60W PF:0.9830 Freq:60.00Hz Lamp Flux:1739.79x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:



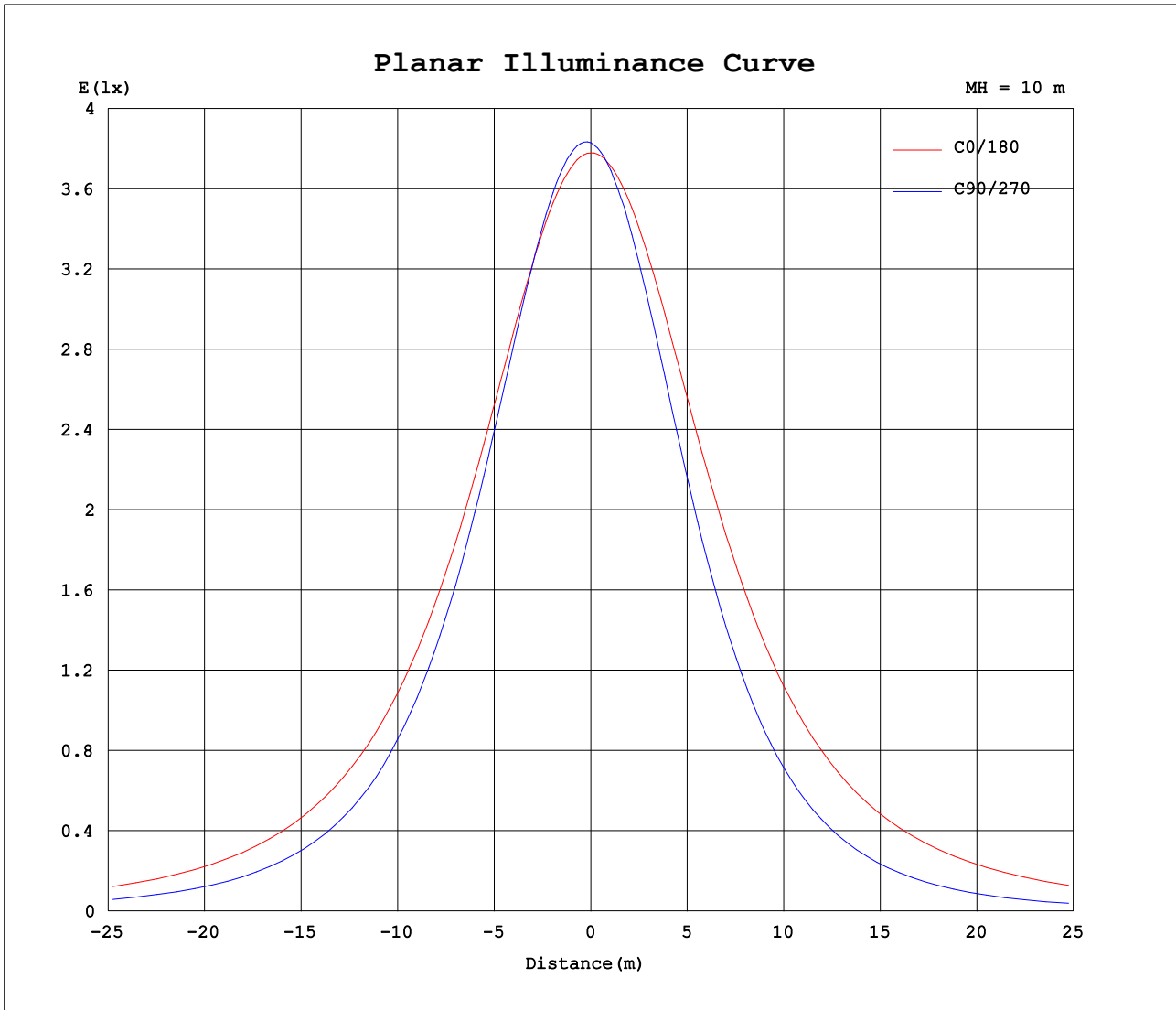
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1490A P:17.60W PF:0.9830 Freq:60.00Hz Lamp Flux:1739.79x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 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	378	380	382	383	383	382	378	380	382	383	383	382							
5	377	381	383	384	384	383	378	377	376	377	379	380							
10	374	379	380	380	380	380	376	371	367	367	370	375							
15	369	375	374	371	372	375	372	364	354	351	358	367							
20	363	369	363	358	360	367	367	354	338	332	342	358							
25	355	360	349	341	344	357	360	342	319	310	323	346							
30	346	349	333	320	326	345	352	329	299	285	303	332							
35	334	336	313	296	305	331	342	314	276	258	280	317							
40	322	321	292	270	282	315	330	299	253	231	257	301							
45	308	305	270	243	258	298	317	283	228	202	231	284							
50	293	288	246	213	233	281	304	266	205	174	208	267							
55	277	271	223	185	209	263	288	249	182	146	185	249							
60	261	252	201	157	185	244	272	233	161	117	163	231							
65	244	234	179	129	161	224	256	216	141	90.6	143	214							
70	228	215	158	102	139	206	240	200	123	65.8	124	198							
75	211	198	139	76.8	118	189	221	185	106	43.3	108	182							
80	195	182	121	53.6	99.9	173	205	170	92.5	24.7	93.9	167							
85	178	166	105	33.0	84.4	157	189	156	81.2	13.2	82.0	152							
90	163	151	92.4	18.0	71.8	143	174	143	72.3	11.6	71.8	138							
95	149	137	81.5	12.4	62.1	130	160	131	65.2	11.9	64.1	126							
100	136	124	72.1	12.0	54.7	117	146	112	56.5	12.6	55.4	109							
105	119	105	62.1	12.3	47.2	96.2	128	97.8	48.3	13.0	46.7	94.4							
110	105	90.8	51.3	12.3	39.0	86.2	114	90.5	44.9	13.6	42.0	87.0							
115	96.0	83.8	45.7	12.7	35.8	79.4	105	83.8	42.8	14.3	40.9	80.4							
120	88.3	77.7	41.9	13.2	34.0	73.4	96.0	77.6	40.7	14.8	40.2	74.5							
125	81.4	71.6	40.1	13.9	33.0	67.8	87.9	71.9	39.2	15.2	38.2	68.9							
130	74.1	65.4	37.4	14.5	32.4	62.5	80.0	66.4	38.2	15.4	35.2	63.0							
135	67.3	59.5	33.6	15.0	32.1	57.0	72.6	60.3	37.1	15.6	31.2	56.5							
140	61.2	52.6	29.3	15.7	31.5	51.9	64.8	55.1	36.1	15.8	27.6	49.1							
145	54.6	44.9	25.9	16.4	30.2	47.7	58.6	50.6	34.2	16.0	25.0	41.6							
150	48.9	37.5	23.9	17.1	28.3	43.9	52.9	46.4	31.6	16.4	22.9	34.4							
155	42.4	30.5	22.1	17.8	26.3	40.1	47.9	42.1	28.7	16.9	21.4	28.7							
160	36.9	25.6	20.8	18.6	24.7	35.1	42.3	36.5	27.0	18.1	20.4	23.9							
165	32.3	22.1	20.2	20.9	24.5	29.6	33.3	30.4	26.0	20.6	20.8	21.0							
170	28.0	19.8	21.8	23.7	25.2	26.5	19.1	27.0	25.7	23.3	22.2	19.0							
175	18.8	18.1	24.5	26.2	26.1	24.8	17.6	24.5	25.7	25.7	24.3	18.9							
180	17.2	22.0	26.8	27.1	26.2	22.4	17.2	21.9	26.8	27.1	26.2	22.5							

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: