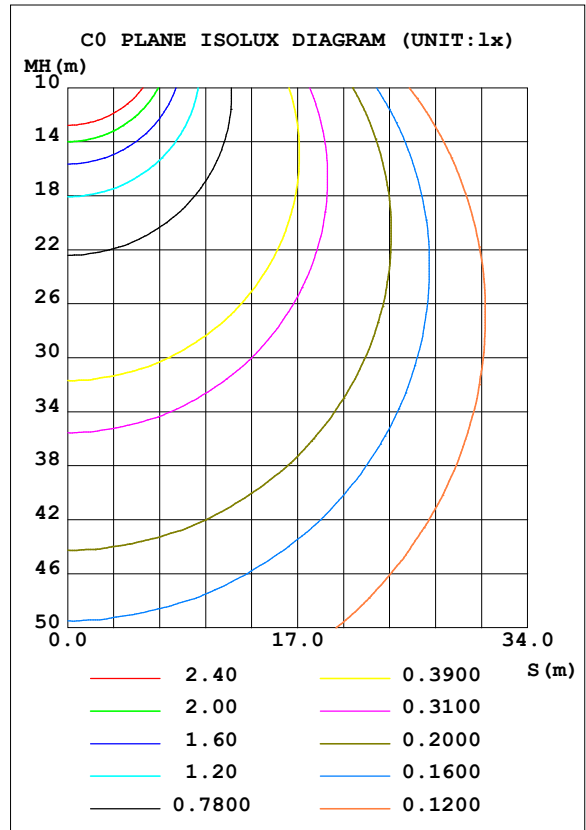
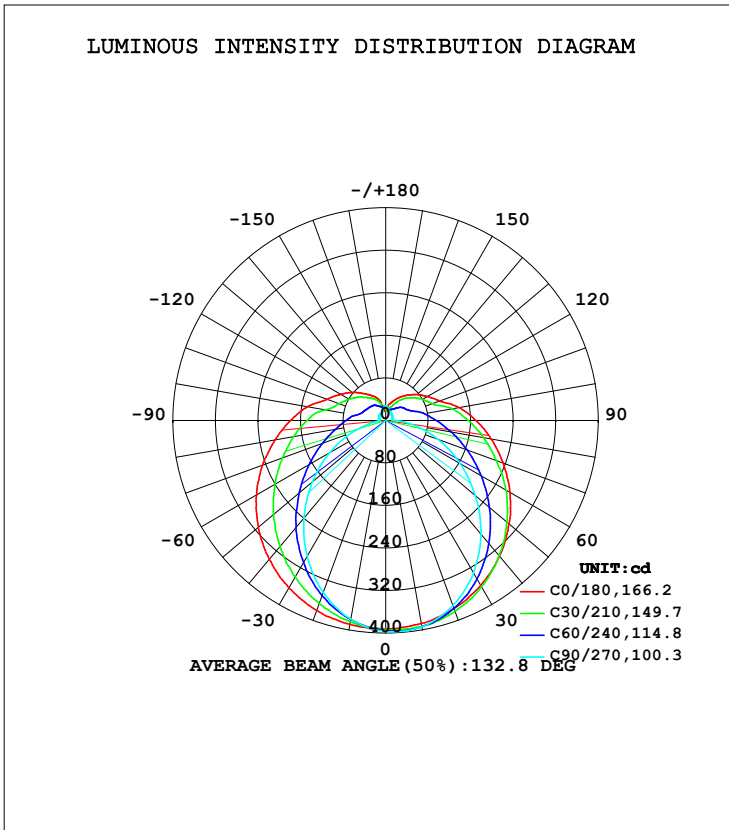


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1798.03x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 103.93 lm/W			
MODEL		I _{max} (cd)	398.2	S/MH (C0/180)	1.39
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.12
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1798.0	η UP, DN (C0-180)	10.6, 40.9
NOMINAL FLUX (lm)	1798.03	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	10.6, 38.0
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	387.4	393.6	394.3	394.0	389.6	382.4	379.4	386.3	0- 10	37.40	37.40	2.08,2.08
20	376.4	379.0	370.1	376.3	380.0	358.5	343.9	362.8	10- 20	107.3	144.7	8.05,8.05
30	357.7	352.3	331.0	346.7	364.0	324.8	295.2	328.8	20- 30	163.4	308.1	17.1,17.1
40	333.0	316.9	279.0	308.7	340.7	285.7	238.9	289.3	30- 40	200.0	508.1	28.3,28.3
50	303.1	276.2	220.0	265.2	313.0	243.8	180.2	245.9	40- 50	215.0	723.0	40.2,40.2
60	269.7	233.9	161.6	221.1	280.6	203.4	121.8	204.4	50- 60	210.3	933.4	51.9,51.9
70	235.2	192.4	105.5	178.1	246.8	167.2	68.13	166.7	60- 70	190.7	1124	62.5,62.5
80	201.4	156.1	55.08	140.4	211.2	135.7	25.51	134.6	70- 80	161.9	1286	71.5,71.5
90	169.8	125.3	18.51	110.5	179.2	111.3	12.04	108.6	80- 90	131.7	1418	78.8,78.8
100	140.7	101.1	12.40	88.27	149.8	86.83	13.02	84.83	90-100	106.1	1524	84.7,84.7
110	108.2	73.17	12.70	64.37	117.6	69.79	14.06	66.63	100-110	79.89	1604	89.2,89.2
120	90.41	61.60	13.67	55.17	98.64	61.00	15.37	59.22	110-120	61.54	1665	92.6,92.6
130	76.13	52.93	14.95	48.76	82.24	53.95	15.92	50.68	120-130	48.46	1714	95.3,95.3
140	62.48	42.24	16.26	42.91	66.66	46.98	16.37	39.53	130-140	35.80	1750	97.3,97.3
150	49.85	31.67	17.66	37.19	54.53	40.23	17.01	29.52	140-150	24.15	1774	98.6,98.6
160	37.86	23.99	19.24	30.79	43.53	32.78	18.77	22.85	150-160	14.63	1788	99.5,99.5
170	29.16	21.48	24.49	26.67	19.75	27.25	24.12	21.29	160-170	7.455	1796	99.9,99.9
180	17.78	25.25	28.10	25.24	17.78	25.25	28.13	25.22	170-180	2.287	1798	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 615.03 lm

%lum = 34.2%

%lamp = 34.2%

Conical surface Flux(120deg): 933.39 lm

%lum = 51.9%

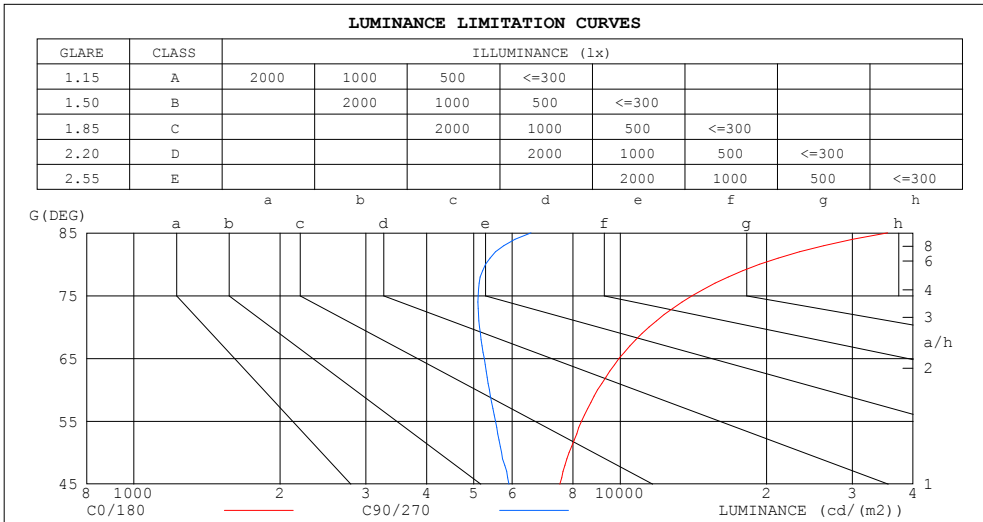
%lamp = 51.9%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1798.03x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	35448	6554
80	19331	5287
75	14074	5104
70	11461	5140
65	9945	5252
60	8990	5385
55	8333	5541
50	7858	5704
45	7511	5905

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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1798.03x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 4000K	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	.106	.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	.126	.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	.291	.297	.273	.251	.203	.188	.173	.117	.109	.101	.038	.035	.033	
2.0	.341	.295	.257	.292	.254	.222	.200	.176	.155	.115	.102	.091	.037	.033	.030	
3.0	.333	.279	.236	.286	.241	.204	.196	.167	.143	.113	.098	.084	.036	.032	.028	
4.0	.325	.266	.221	.279	.230	.192	.192	.160	.135	.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	.310	.249	.205	.267	.215	.178	.184	.151	.126	.107	.089	.075	.034	.029	.025	
7.0	.303	.242	.199	.261	.210	.174	.180	.147	.123	.105	.087	.073	.034	.028	.024	
8.0	.297	.237	.195	.255	.205	.170	.177	.144	.121	.103	.085	.072	.033	.028	.024	
9.0	.291	.232	.192	.250	.201	.168	.173	.142	.119	.101	.084	.071	.033	.027	.024	
10.0	.285	.228	.190	.246	.198	.166	.170	.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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1798.03x1 lm										
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 4000K					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	20.1	21.3	20.6	21.8	22.5	17.1	18.3	17.7	18.9	19.6
4H	21.5	22.7	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	25.7	26.7	27.4	19.0	20.0	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	26.2	26.1	26.8	27.7	20.8	21.5	21.5	22.2	23.1
12H	26.5	27.3	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	22.8
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	23.1
6H	25.2	25.8	26.0	26.5	27.4	22.4	22.9	23.1	23.7	24.6
8H	26.6	27.1	27.3	27.8	28.7	23.1	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, 1798 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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1798.03x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

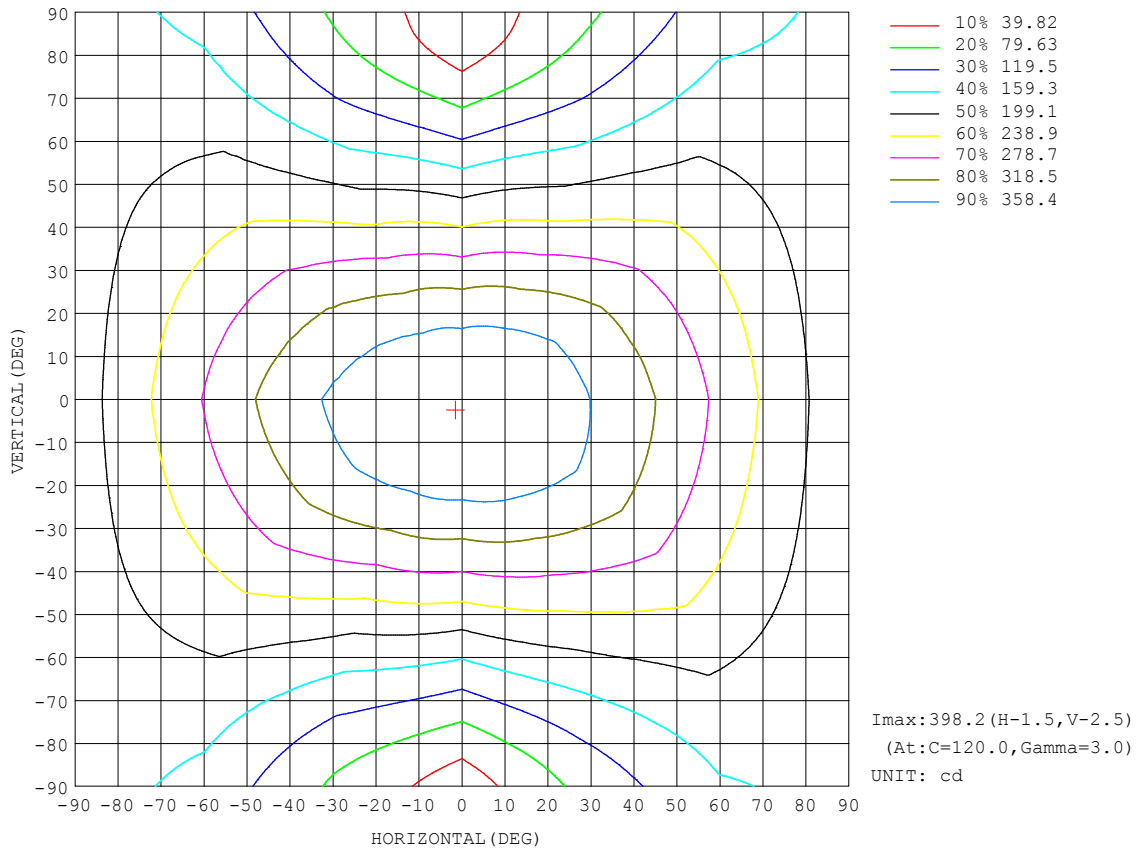
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	35	28	46	35	28	44	34	27	20
0.80	57	44	36	55	43	35	52	41	34	26
1.00	64	51	43	62	50	42	58	50	41	32
1.25	71	59	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	78	70	64	51
3.00	92	82	75	88	79	73	81	74	68	54
4.00	96	88	82	92	85	79	84	79	74	59
5.00	99	92	86	95	89	83	87	82	78	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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1798.03x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

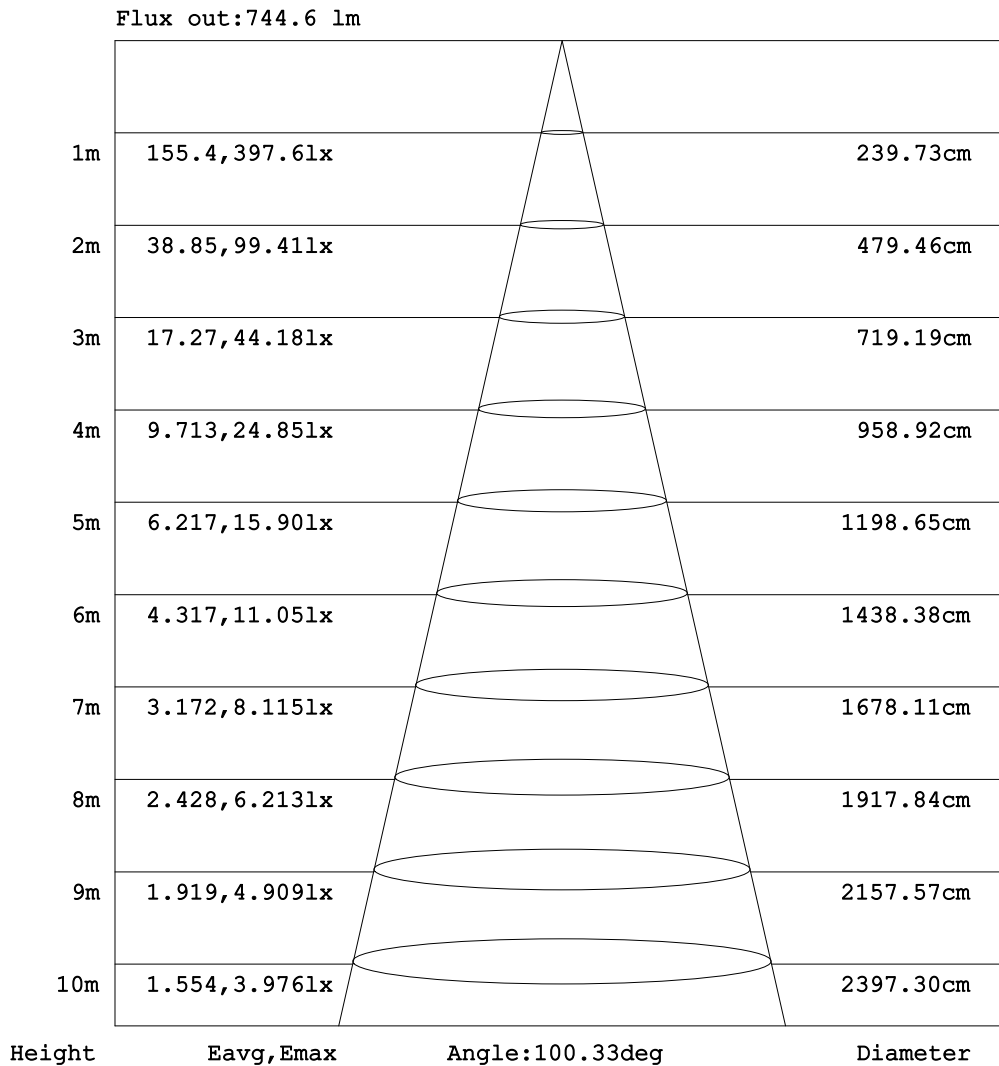


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-04-16

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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1798.03x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

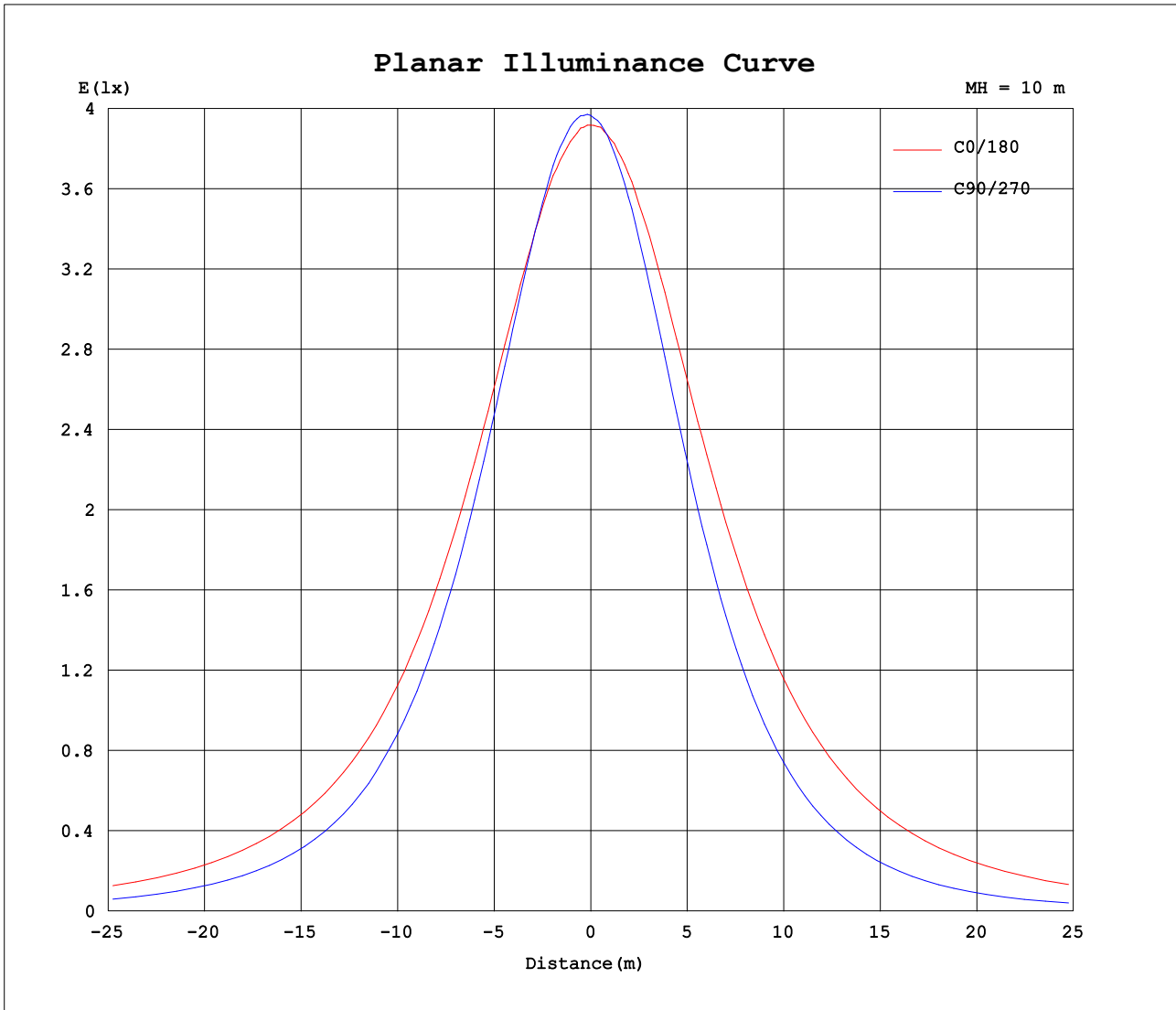


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1798.03x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 4000K	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	392	393	396	397	398	396	392	393	396	397	398	396							
5	390	394	397	398	398	396	391	390	390	391	393	394							
10	387	393	394	394	394	394	390	385	380	379	384	389							
15	383	389	387	384	385	389	386	376	367	364	371	382							
20	376	382	376	370	372	380	380	367	350	344	355	371							
25	368	372	362	352	356	369	373	354	331	321	335	359							
30	358	361	344	331	337	356	364	340	309	295	313	344							
35	346	347	324	305	315	342	353	326	286	268	291	329							
40	333	332	302	279	291	326	341	309	262	239	266	312							
45	319	316	279	251	266	308	327	293	237	210	242	294							
50	303	298	255	220	241	290	313	275	212	180	216	276							
55	287	280	231	191	215	271	297	258	189	151	192	258							
60	270	261	207	162	190	252	281	240	167	122	169	240							
65	252	242	184	133	166	231	263	223	146	93.9	148	222							
70	235	222	163	105	144	212	247	208	127	68.1	129	205							
75	219	204	143	79.3	122	195	228	191	110	44.8	112	188							
80	201	187	125	55.1	103	178	211	176	95.7	25.5	96.9	172							
85	185	171	109	34.3	86.8	162	195	162	84.0	13.6	84.7	157							
90	170	155	95.2	18.5	73.7	147	179	148	74.8	12.0	74.0	143							
95	155	142	83.9	12.8	63.7	134	164	136	67.3	12.4	66.2	131							
100	141	128	74.4	12.4	56.2	120	150	115	58.3	13.0	57.2	113							
105	124	108	64.0	12.7	48.5	99.4	132	101	49.8	13.4	48.1	97.6							
110	108	93.4	52.9	12.7	40.1	88.6	118	93.3	46.3	14.1	43.3	90.0							
115	98.8	86.0	47.2	13.1	36.8	81.6	108	86.4	44.1	14.8	42.2	83.2							
120	90.4	79.8	43.4	13.7	35.0	75.3	98.6	80.0	42.0	15.4	41.4	77.0							
125	83.4	73.5	41.6	14.3	33.9	69.6	90.4	74.0	40.4	15.7	39.4	71.2							
130	76.1	67.2	38.7	14.9	33.3	64.2	82.2	68.5	39.4	15.9	36.3	65.1							
135	68.9	60.9	34.7	15.5	32.9	58.5	74.6	62.2	38.3	16.1	32.1	58.3							
140	62.5	54.2	30.3	16.3	32.4	53.4	66.7	56.8	37.2	16.4	28.5	50.6							
145	55.6	46.9	26.7	17.0	31.1	49.1	60.1	52.2	35.3	16.6	25.8	42.9							
150	49.8	38.6	24.7	17.7	29.2	45.2	54.5	47.8	32.6	17.0	23.6	35.4							
155	43.5	31.5	22.8	18.4	27.1	41.3	49.3	43.4	29.7	17.4	22.1	29.5							
160	37.9	26.5	21.5	19.2	25.4	36.2	43.5	37.7	27.9	18.8	21.0	24.7							
165	33.4	22.9	20.9	21.6	25.2	30.6	34.4	31.3	27.0	21.4	21.4	21.6							
170	29.2	20.5	22.5	24.5	26.0	27.4	19.7	27.9	26.6	24.1	23.0	19.6							
175	19.5	18.7	25.4	27.1	26.9	25.7	18.2	25.3	26.7	26.6	25.2	19.6							
180	17.8	22.7	27.8	28.1	27.2	23.3	17.8	22.7	27.8	28.1	27.2	23.3							

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: