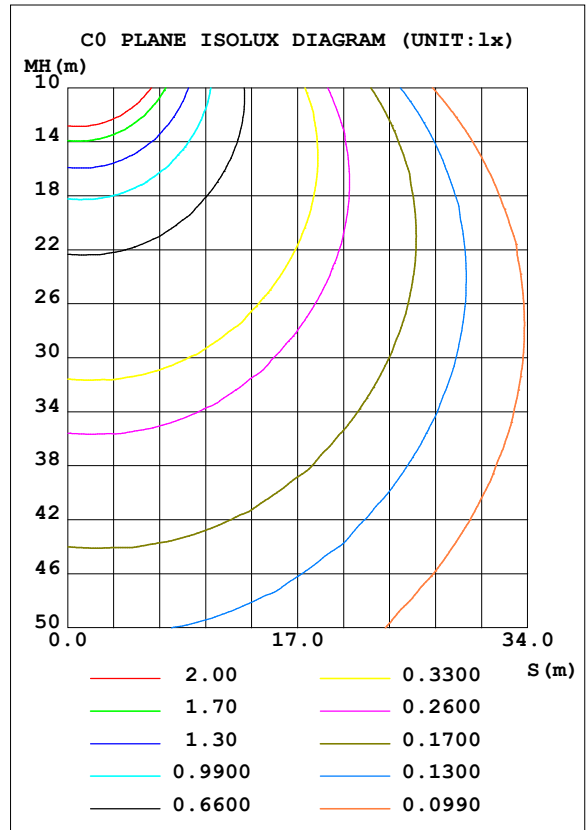
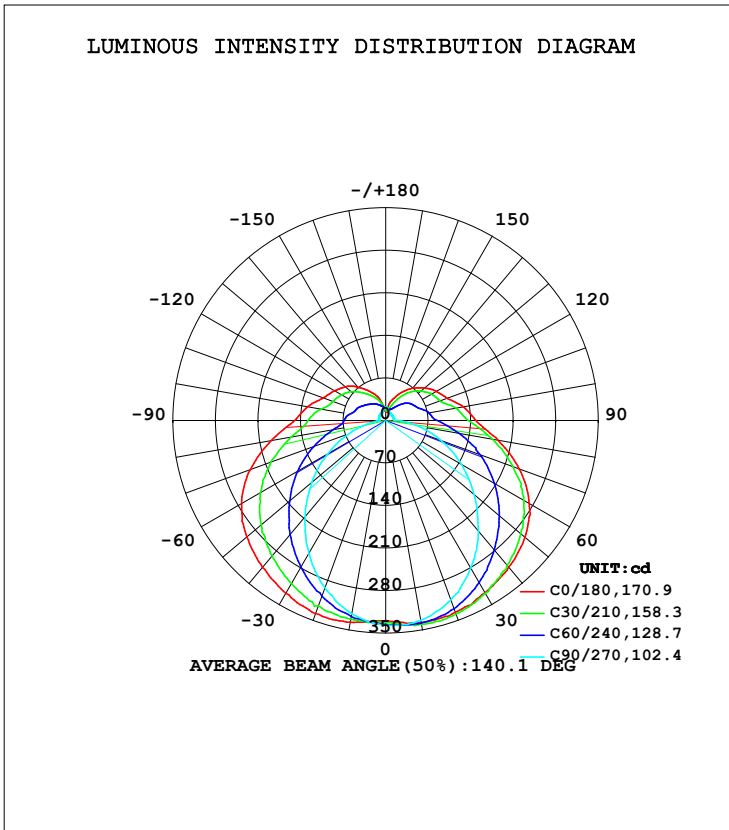


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.1480A P:17.50W PF:0.9820 Freq:60.00Hz Lamp Flux:1684.08x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.23 lm/W			
MODEL		I _{max} (cd)	341.9	S/MH (C0/180)	1.50
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.13
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1684.1	η UP, DN (C0-180)	11.0, 40.4
NOMINAL FLUX (lm)	1684.08	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	11.1, 37.5
LAMPS INSIDE	1	η up (%)	22.1	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	77.9	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	337.6	339.6	333.8	339.7	337.2	329.8	322.8	333.6	0- 10	31.98	31.98	1.9,1.9
20	335.9	334.1	314.2	330.2	338.2	316.1	292.7	319.9	10- 20	93.33	125.3	7.44,7.44
30	327.1	318.0	280.6	308.0	328.7	294.4	252.7	298.1	20- 30	144.7	270.0	16,16
40	314.9	294.2	237.9	279.7	316.0	267.9	206.9	269.8	30- 40	181.1	451.1	26.8,26.8
50	299.0	267.4	189.9	247.2	298.2	236.9	159.0	237.4	40- 50	200.6	651.8	38.7,38.7
60	272.5	234.2	143.8	210.8	273.7	202.9	110.3	202.4	50- 60	202.8	854.6	50.7,50.7
70	234.0	194.4	97.50	169.2	237.3	163.8	64.74	162.1	60- 70	186.6	1041	61.8,61.8
80	187.2	150.6	53.82	125.4	191.3	122.8	25.71	120.8	70- 80	154.2	1195	71,71
90	148.8	110.7	19.29	88.81	149.9	98.34	12.01	94.88	80- 90	116.4	1312	77.9,77.9
100	129.9	95.29	13.47	77.23	130.6	84.21	12.26	80.89	90-100	94.12	1406	83.5,83.5
110	107.7	76.90	12.96	62.72	109.4	72.43	12.74	69.30	100-110	77.14	1483	88.1,88.1
120	96.30	69.38	13.13	57.05	97.50	65.61	13.38	64.09	110-120	63.69	1547	91.9,91.9
130	83.37	60.07	13.35	50.65	86.57	57.46	13.74	54.54	120-130	51.64	1598	94.9,94.9
140	69.76	46.74	13.62	42.81	72.10	47.74	14.07	41.30	130-140	37.93	1636	97.2,97.2
150	53.95	32.75	14.34	35.43	56.36	39.34	14.67	29.00	140-150	24.65	1661	98.6,98.6
160	38.37	22.09	15.62	28.64	42.98	31.48	16.22	21.54	150-160	14.16	1675	99.5,99.5
170	24.44	18.88	19.98	23.41	22.50	24.56	19.88	19.69	160-170	6.894	1682	99.9,99.9
180	14.03	20.46	22.88	21.29	14.02	20.46	22.94	21.31	170-180	1.967	1684	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 550.08 lm

%lum = 32.7%

%lamp = 32.7%

Conical surface Flux(120deg): 854.61 lm

%lum = 50.7%

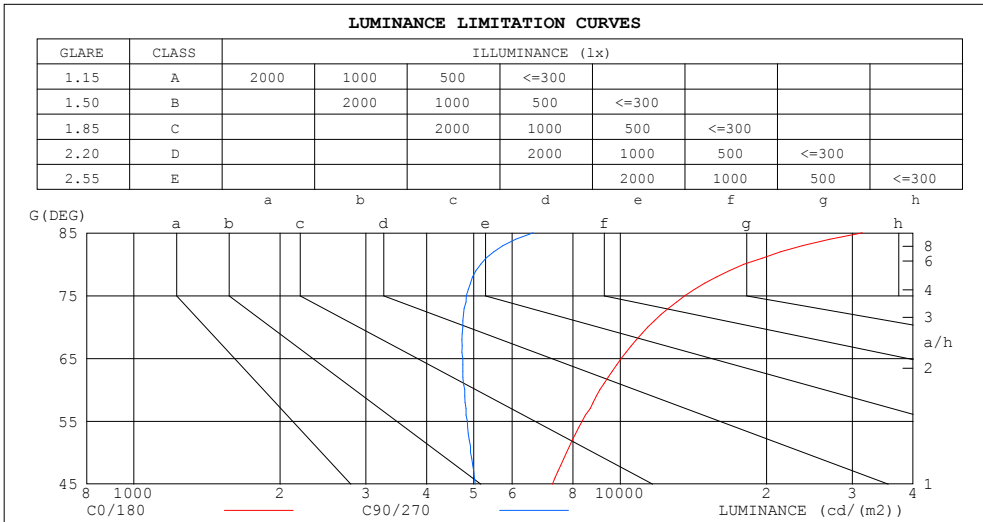
%lamp = 50.7%

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:0.1480A P:17.50W PF:0.9820 Freq:60.00Hz Lamp Flux:1684.08x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	31482	6617
80	17970	5166
75	13590	4828
70	11405	4751
65	10057	4750
60	9082	4793
55	8352	4848
50	7753	4924
45	7261	5035

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:0.1480A P:17.50W PF:0.9820 Freq:60.00Hz Lamp Flux:1684.08x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 2700K	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	.215	.068	.365	.208	.066	.339	.194	.062	.315	.181	.058	.292	.170	.055	
2.0	.329	.180	.055	.317	.174	.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	.122	.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	.100	.028	.195	.097	.028	.181	.091	.026	.167	.085	.025	.154	.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	.164	.079	.022	.158	.076	.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	.209	.209	.209	.120	.120	.120	.038	.038	.038	
1.0	.355	.325	.299	.304	.279	.257	.208	.192	.178	.120	.111	.103	.038	.036	.033	
2.0	.348	.303	.264	.298	.261	.229	.204	.180	.159	.118	.105	.093	.038	.034	.030	
3.0	.341	.286	.243	.292	.247	.211	.201	.172	.148	.116	.100	.087	.037	.033	.029	
4.0	.333	.274	.229	.286	.237	.199	.197	.165	.140	.114	.097	.083	.037	.031	.027	
5.0	.326	.264	.219	.280	.229	.190	.193	.160	.134	.112	.094	.080	.036	.031	.026	
6.0	.318	.256	.212	.274	.222	.185	.189	.155	.131	.109	.091	.078	.035	.030	.026	
7.0	.311	.250	.207	.268	.217	.180	.185	.152	.128	.107	.089	.076	.035	.029	.025	
8.0	.305	.244	.203	.262	.212	.177	.181	.149	.125	.106	.088	.075	.034	.029	.025	
9.0	.298	.240	.200	.257	.208	.174	.178	.146	.124	.104	.086	.074	.034	.028	.024	
10.0	.293	.235	.197	.252	.204	.172	.175	.144	.122	.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:1684.08x1 lm										
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 2700K					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	19.8	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	18.4	17.8	19.0	19.7
4H	21.9	23.0	22.5	23.6	24.3	18.0	19.2	18.6	19.8	20.5
6H	23.3	24.4	24.0	25.1	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	20.6	21.4
12H	25.0	26.1	25.7	26.7	27.5	19.2	20.2	19.9	20.9	21.6
4H 2H	18.5	19.6	19.1	20.3	21.0	16.9	18.0	17.5	18.6	19.3
3H	21.3	22.4	22.0	23.0	23.8	18.8	19.8	19.5	20.5	21.2
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	27.3	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	27.6	22.1	22.8	22.8	23.5	24.4
8H	26.4	27.0	27.2	27.8	28.6	22.7	23.3	23.5	24.0	24.9
12H	27.7	28.2	28.5	29.0	29.9	23.3	23.8	24.0	24.5	25.5
12H 4H	23.3	24.0	24.1	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	24.8
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	+ 0.3 / - 0.4					+ 0.3 / - 0.5				

CIE Pub.117, 1684 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.8)

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:

UTILIZATION FACTORS TABLE

Test:U:120.5V I:0.1480A P:17.50W PF:0.9820 Freq:60.00Hz Lamp Flux:1684.08x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

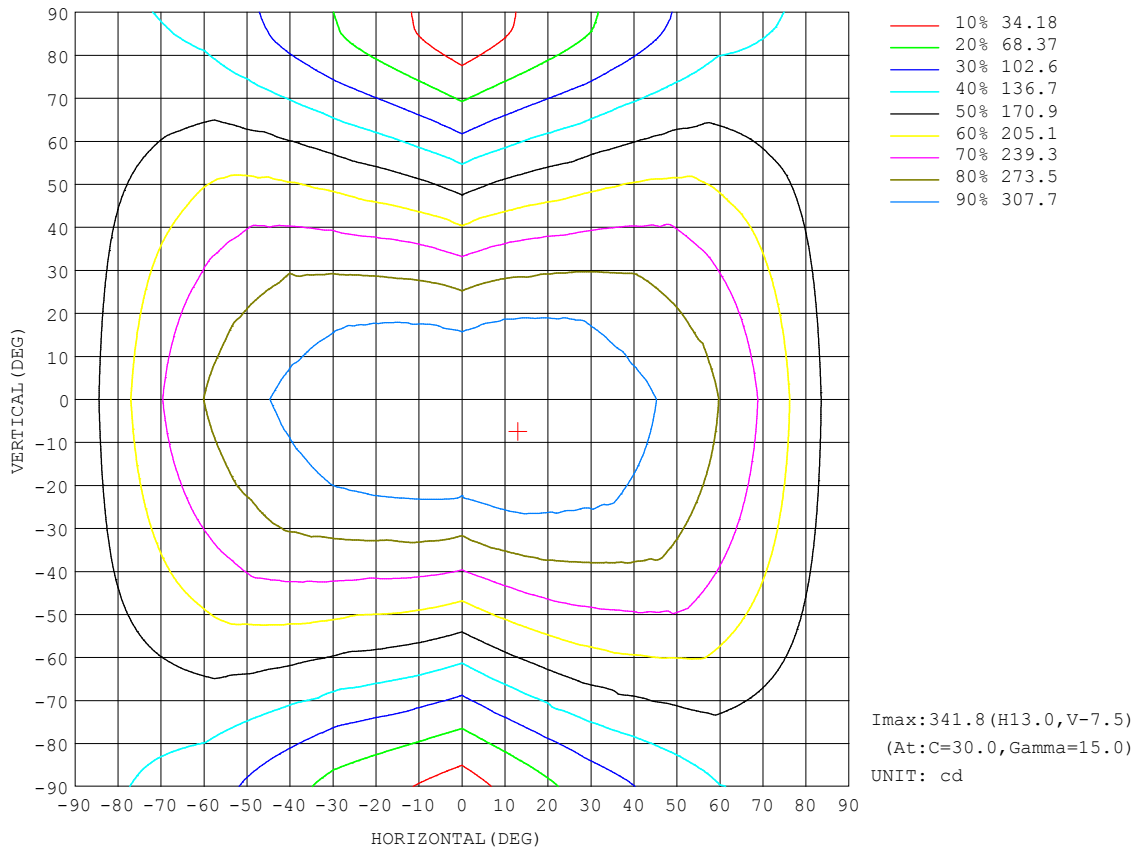
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	34	27	45	34	27	43	33	26	19
0.80	56	43	35	54	42	34	51	40	33	25
1.00	63	51	42	61	49	41	57	49	40	31
1.25	70	58	49	68	56	48	63	53	46	36
1.50	76	63	55	73	61	53	67	58	51	40
2.00	83	72	64	80	69	62	73	65	59	46
2.50	87	77	69	84	75	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	95	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:0.1480A P:17.50W PF:0.9820 Freq:60.00Hz Lamp Flux:1684.08x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

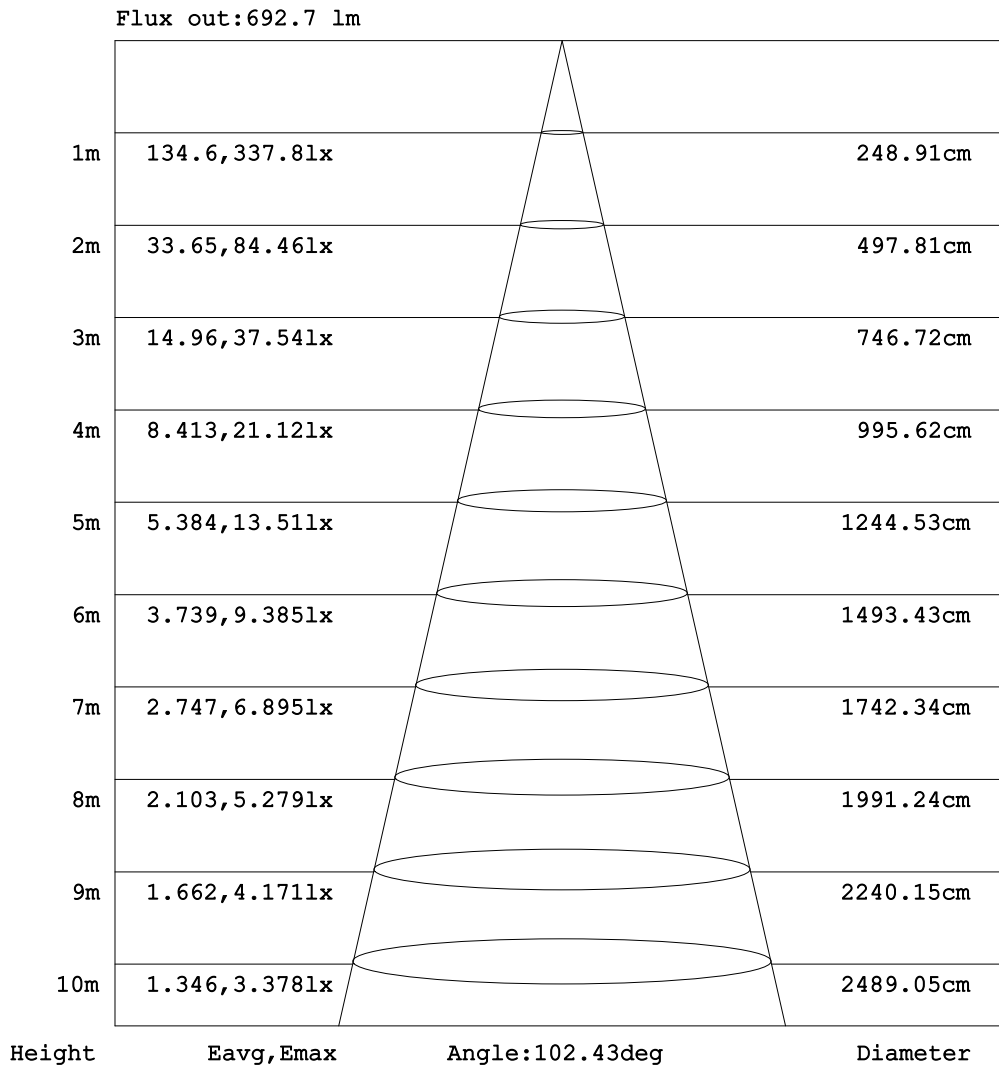


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-04-16

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:1684.08x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

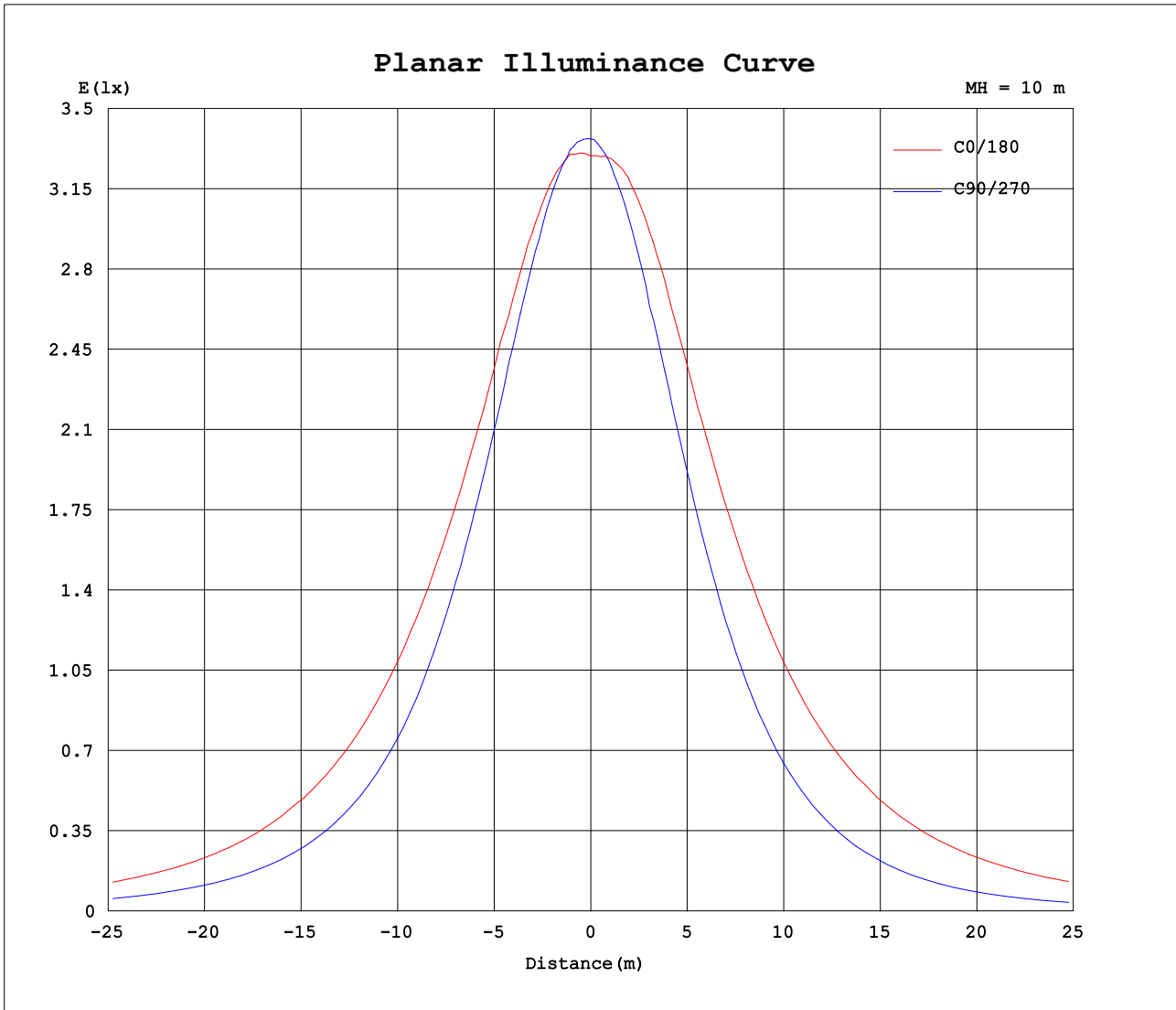


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1684.08x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 2700K	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	329	332	335	337	338	336	329	332	335	337	338	336							
5	334	337	338	337	338	338	332	333	332	332	335	337							
10	338	341	339	334	339	340	337	332	327	323	330	338							
15	338	342	335	325	331	338	339	329	320	310	323	335							
20	336	339	329	314	326	335	338	325	308	293	310	330							
25	334	334	319	298	311	327	334	318	294	274	296	322							
30	327	328	308	281	296	320	329	310	279	253	281	315							
35	322	320	293	261	280	310	322	301	262	230	264	304							
40	315	311	278	238	261	298	316	291	245	207	246	294							
45	308	302	261	214	242	286	307	280	225	182	226	281							
50	299	290	244	190	222	272	298	267	206	159	206	269							
55	287	277	226	167	201	257	289	253	187	135	187	253							
60	272	262	206	144	181	241	274	238	167	110	166	238							
65	255	247	186	120	160	220	257	219	147	87.6	146	219							
70	234	223	165	97.5	137	201	237	201	126	64.7	125	199							
75	211	201	144	75.0	115	178	214	179	106	43.8	105	177							
80	187	178	123	53.8	93.8	157	191	158	87.3	25.7	85.7	156							
85	165	156	102	34.6	74.3	136	168	138	73.0	13.4	70.4	136							
90	149	136	85.1	19.3	58.7	119	150	128	68.6	12.0	65.0	125							
95	139	126	76.6	13.7	53.0	111	140	119	65.9	12.2	62.3	116							
100	130	118	72.7	13.5	50.6	104	131	108	60.5	12.3	57.3	104							
105	118	104	66.5	13.2	46.4	90.8	120	97.0	54.7	12.5	51.0	94.2							
110	108	94.9	58.9	13.0	41.3	84.1	109	92.7	52.2	12.7	47.9	90.7							
115	102	91.2	54.9	13.1	39.0	80.7	103	88.5	50.3	13.1	46.9	86.9							
120	96.3	86.9	51.8	13.1	36.9	77.2	97.5	84.2	47.0	13.4	45.7	82.5							
125	90.5	81.5	49.1	13.3	34.6	73.6	91.9	79.8	43.6	13.6	42.2	77.4							
130	83.4	75.4	44.7	13.3	32.7	68.6	86.6	74.1	40.8	13.7	37.4	71.7							
135	76.4	69.2	38.6	13.4	30.9	62.6	80.2	67.0	38.1	13.9	32.3	64.3							
140	69.8	61.0	32.4	13.6	29.6	56.0	72.1	59.8	35.7	14.1	28.2	54.4							
145	61.8	51.8	27.4	13.9	28.2	49.8	63.8	53.3	33.7	14.3	25.0	44.8							
150	54.0	42.0	23.5	14.3	26.6	44.2	56.4	47.3	31.4	14.7	22.5	35.5							
155	46.1	32.7	21.0	14.8	25.1	38.9	49.6	41.7	29.0	15.0	20.8	28.8							
160	38.4	24.7	19.4	15.6	23.7	33.6	43.0	36.2	26.7	16.2	19.5	23.6							
165	31.7	20.1	18.7	17.7	22.3	29.0	34.6	30.5	24.9	18.0	19.9	20.3							
170	24.4	17.5	20.2	20.0	21.7	25.2	22.5	25.9	23.2	19.9	20.8	18.6							
175	15.0	16.0	21.6	22.1	21.8	22.1	16.4	21.7	21.8	21.6	21.6	19.1							
180	14.0	18.7	22.2	22.9	22.2	20.3	14.0	18.7	22.2	22.9	22.3	20.4							

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: