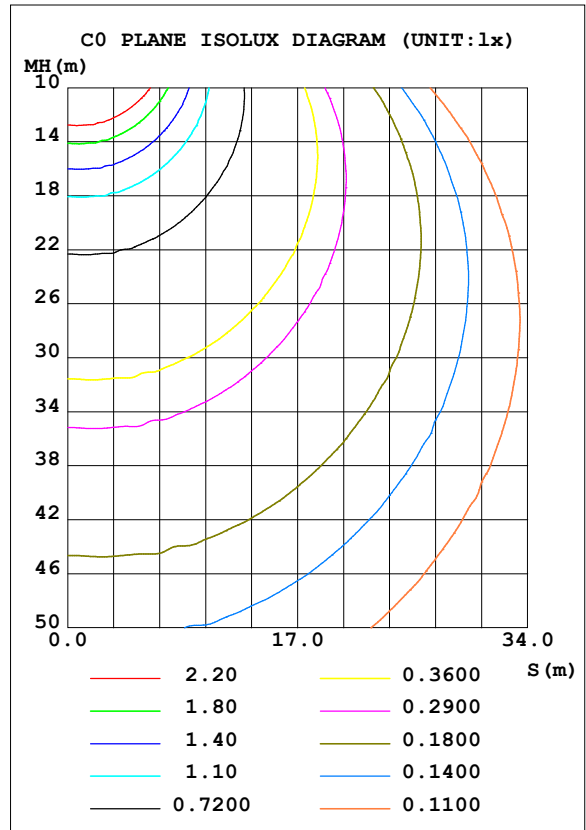
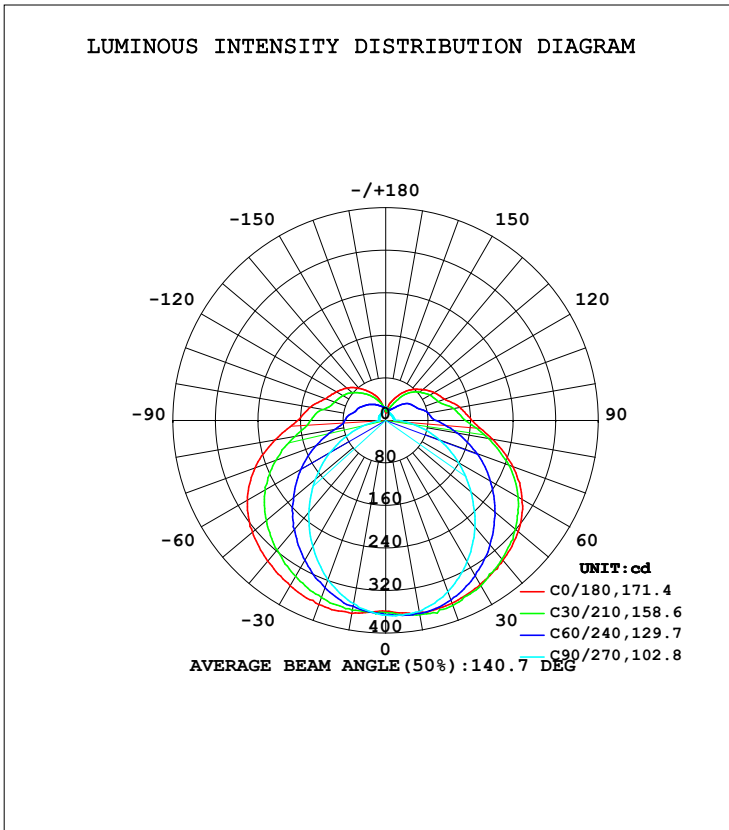


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.1450A P:17.20W PF:0.9810 Freq:60.00Hz Lamp Flux:1843.52x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 107.18 lm/W			
MODEL		I _{max} (cd)	375.2	S/MH (C0/180)	1.50
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.13
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1843.5	η UP, DN (C0-180)	11.1, 40.4
NOMINAL FLUX (lm)	1843.52	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	365.5	369.9	365.1	368.2	368.4	358.3	349.4	362.4	0- 10	34.79	34.79	1.89,1.89
20	365.6	364.9	342.7	358.4	368.2	344.5	318.3	347.4	10- 20	101.6	136.4	7.4,7.4
30	356.1	347.8	306.5	336.6	359.3	321.4	274.1	322.7	20- 30	157.7	294.1	16,16
40	343.4	322.9	261.1	306.2	345.4	292.4	224.6	292.2	30- 40	197.6	491.7	26.7,26.7
50	325.5	293.2	209.5	270.8	326.9	259.4	172.8	257.2	40- 50	219.3	711.0	38.6,38.6
60	296.3	257.6	158.3	230.7	300.6	222.8	120.9	218.3	50- 60	221.8	932.9	50.6,50.6
70	255.2	215.0	108.1	184.9	261.5	179.8	70.93	174.6	60- 70	204.4	1137	61.7,61.7
80	203.8	166.4	60.32	137.7	210.7	135.4	28.63	130.0	70- 80	169.2	1306	70.9,70.9
90	162.4	122.5	22.25	97.21	165.5	109.4	13.64	101.8	80- 90	128.0	1434	77.8,77.8
100	142.2	105.8	15.68	84.60	144.0	94.14	13.68	86.85	90-100	103.7	1538	83.4,83.4
110	118.0	85.51	14.97	68.58	120.5	80.49	14.29	74.46	100-110	84.94	1623	88,88
120	105.3	77.14	14.93	62.46	107.6	72.95	14.97	69.22	110-120	70.04	1693	91.8,91.8
130	90.76	66.52	14.74	55.43	95.22	63.90	15.17	58.81	120-130	56.74	1750	94.9,94.9
140	75.84	51.64	14.87	46.87	79.28	53.34	15.46	44.46	130-140	41.61	1791	97.2,97.2
150	58.72	35.89	15.57	38.64	62.68	43.42	16.11	31.30	140-150	27.05	1818	98.6,98.6
160	41.32	24.24	16.94	31.07	46.80	34.27	17.79	23.34	150-160	15.45	1834	99.5,99.5
170	26.81	20.59	21.74	25.49	23.70	26.83	21.75	21.48	160-170	7.494	1841	99.9,99.9
180	15.28	22.12	25.09	23.45	15.26	22.11	25.12	23.43	170-180	2.146	1844	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 599.83 lm

%lum = 32.5%

%lamp = 32.5%

Conical surface Flux(120deg): 932.85 lm

%lum = 50.6%

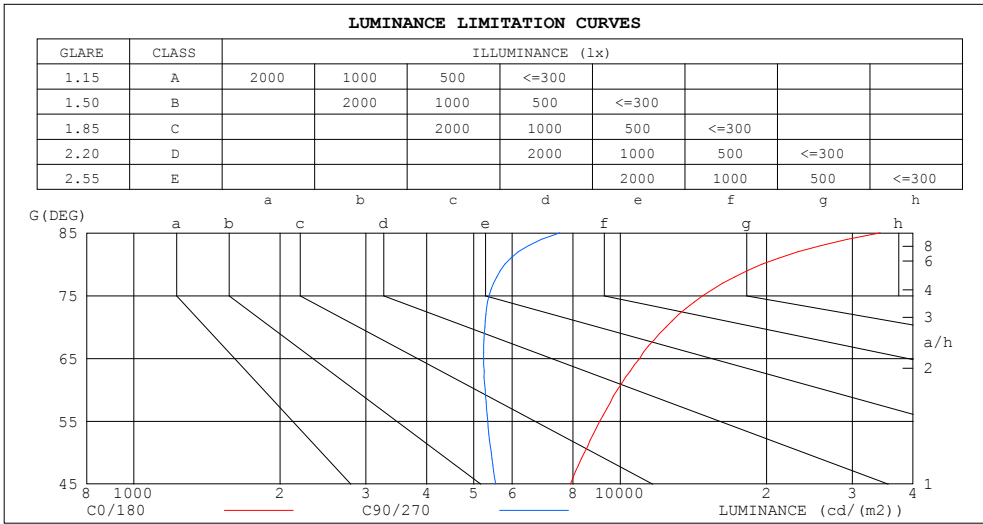
%lamp = 50.6%

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:0.1450A P:17.20W PF:0.9810 Freq:60.00Hz Lamp Flux:1843.52x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 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:

WEC AND CCEC

Test:U:120.5V I:0.1450A P:17.20W PF:0.9810 Freq:60.00Hz Lamp Flux:1843.52x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 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	.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	.241	.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	.120	.120	.120	.039	.039	.039	
1.0	.356	.326	.299	.304	.280	.258	.208	.192	.178	.120	.111	.104	.038	.036	.034	
2.0	.349	.303	.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	.100	.087	.037	.033	.029	
4.0	.334	.275	.229	.287	.237	.199	.197	.165	.140	.114	.097	.083	.037	.032	.027	
5.0	.326	.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	.207	.268	.217	.181	.185	.152	.128	.108	.090	.076	.035	.029	.025	
8.0	.305	.245	.204	.263	.213	.177	.182	.149	.126	.106	.088	.075	.034	.029	.025	
9.0	.299	.240	.201	.258	.209	.175	.179	.147	.124	.104	.087	.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:0.1450A P:17.20W PF:0.9810 Freq:60.00Hz Lamp Flux:1843.52x1 lm										
NAME: LVF1S-24-18-95C-MVUD-NS 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	17.9	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	26.5	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	24.7	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	24.8	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, 1844 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:0.1450A P:17.20W PF:0.9810 Freq:60.00Hz Lamp Flux:1843.52x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

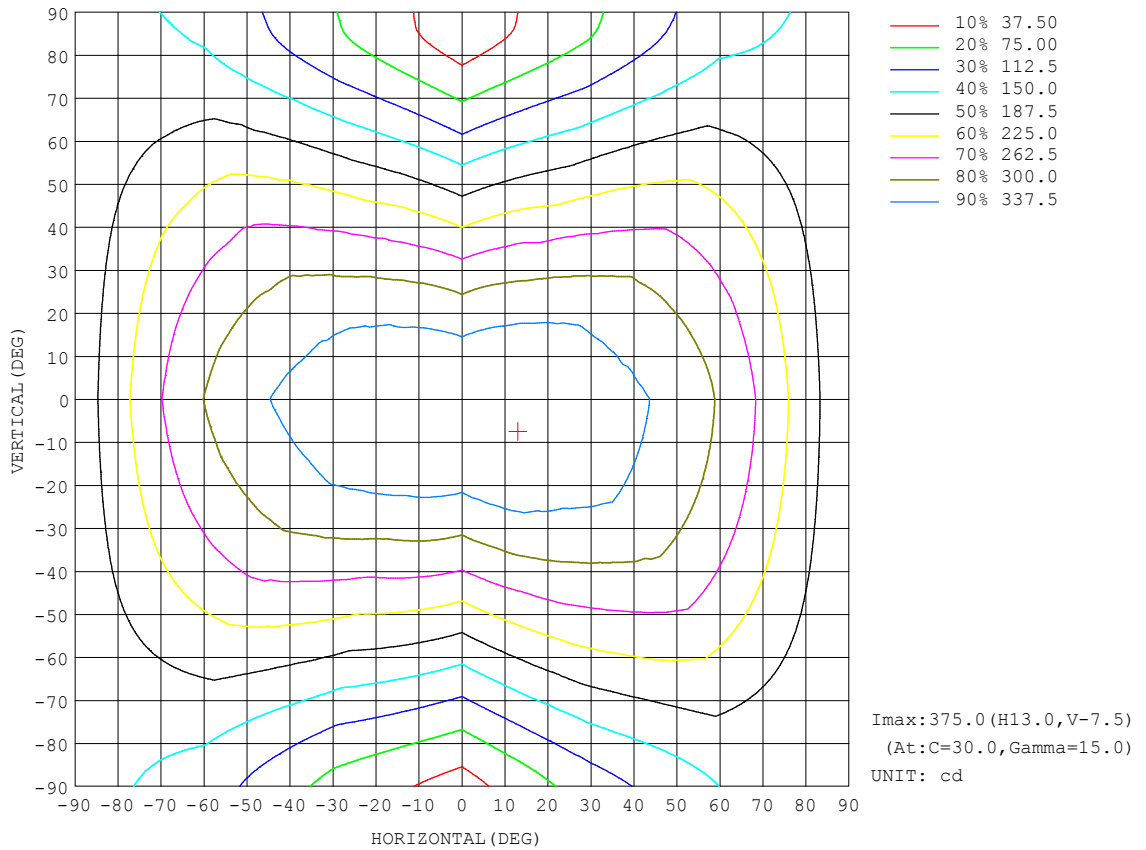
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	34	27	45	34	27	43	33	26	19
0.80	56	43	35	54	42	34	51	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:0.1450A P:17.20W PF:0.9810 Freq:60.00Hz Lamp Flux:1843.52x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

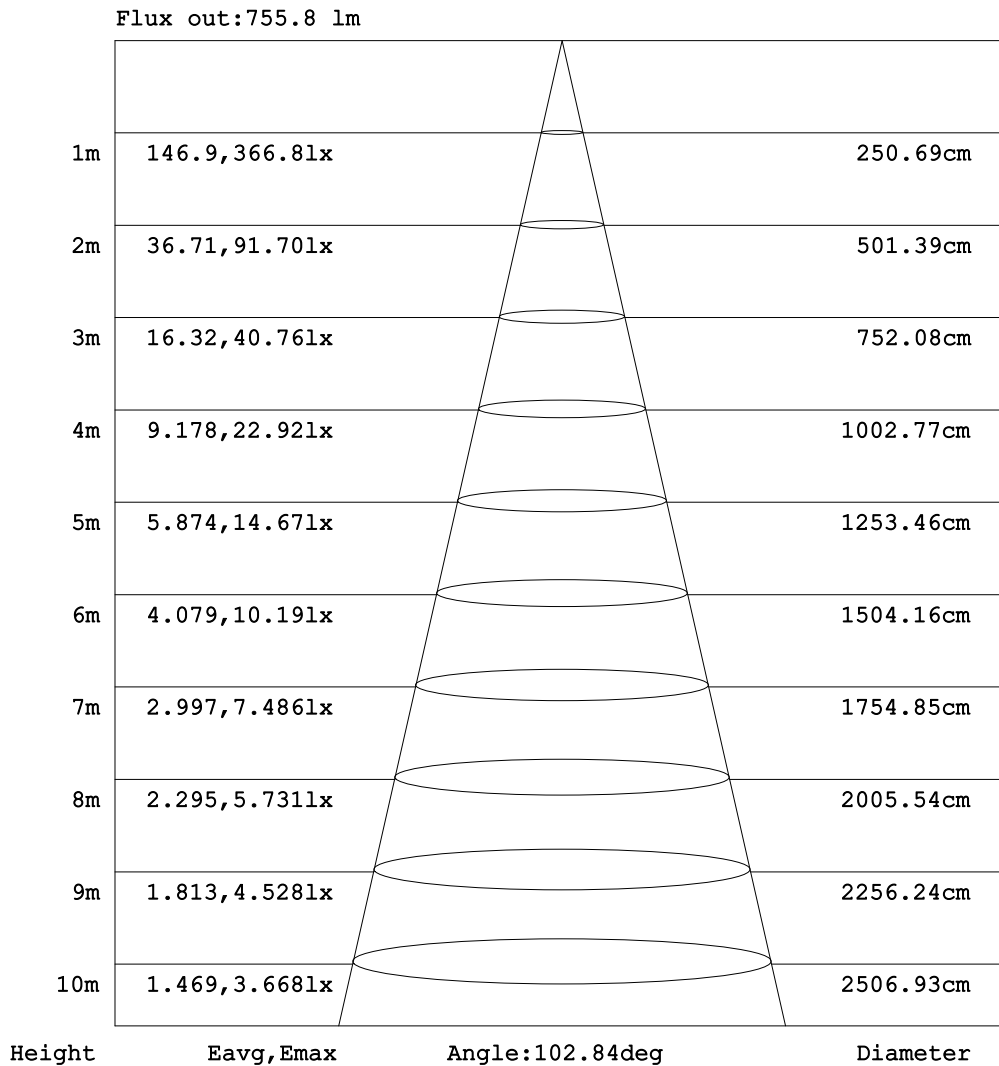


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-04-16

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:0.1450A P:17.20W PF:0.9810 Freq:60.00Hz Lamp Flux:1843.52x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

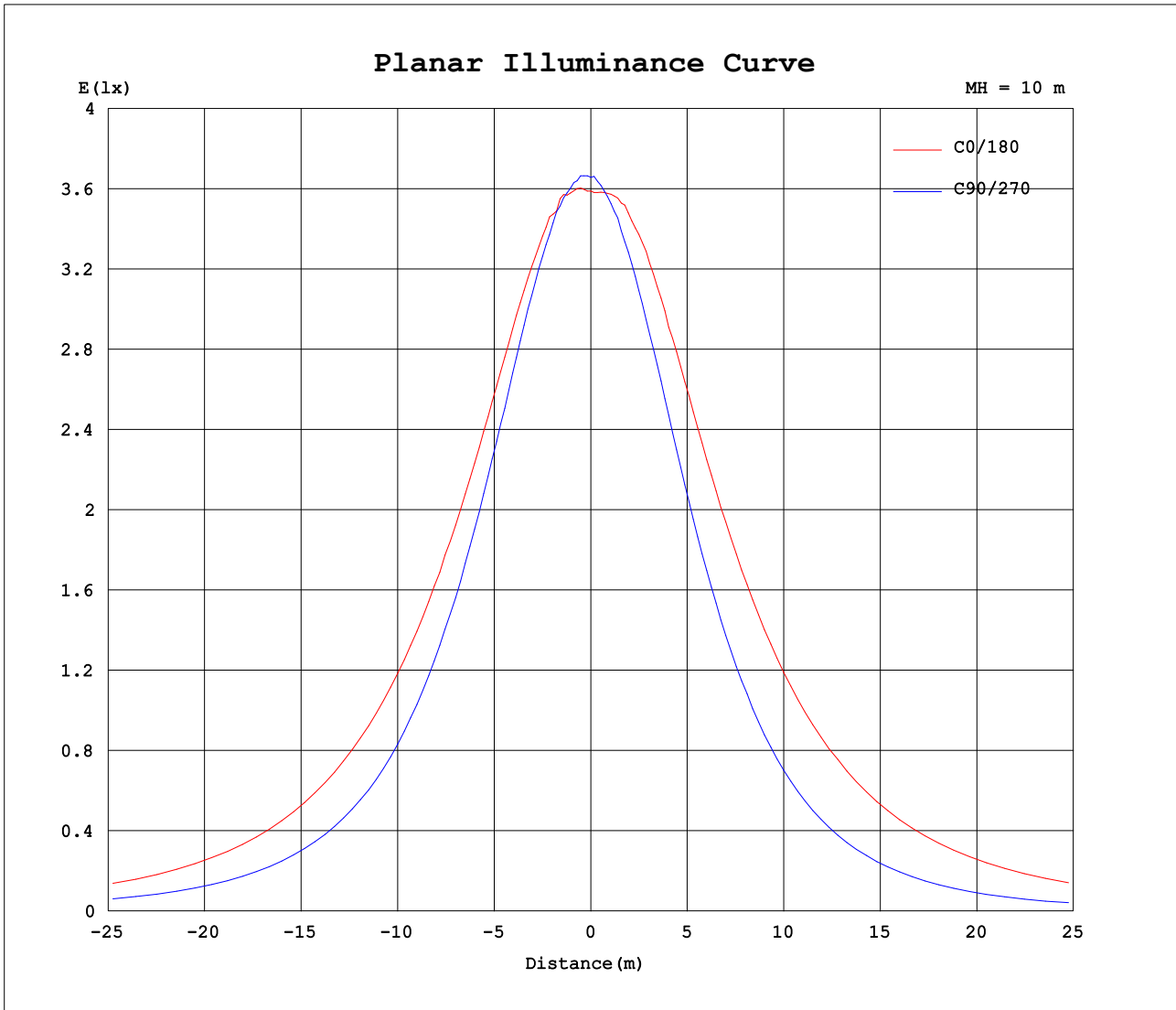


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1450A P:17.20W PF:0.9810 Freq:60.00Hz Lamp Flux:1843.52x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 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	359	361	366	366	367	365	359	361	366	366	367	365							
5	363	367	368	367	368	368	362	361	361	360	364	367							
10	365	371	368	365	367	370	368	362	354	349	358	367							
15	368	375	366	356	362	369	370	359	346	336	348	364							
20	366	370	359	343	352	365	368	354	335	318	336	359							
25	361	363	349	326	339	358	365	348	321	297	321	350							
30	356	359	337	307	323	350	359	339	304	274	304	341							
35	350	349	322	284	305	339	353	330	287	250	285	331							
40	343	340	305	261	286	327	345	317	267	225	264	320							
45	335	330	288	236	265	313	337	307	247	199	245	306							
50	326	318	268	210	242	299	327	293	226	173	222	292							
55	313	304	248	184	220	283	315	278	206	147	200	276							
60	296	288	228	158	197	264	301	261	184	121	179	258							
65	278	268	206	133	174	244	283	241	162	95.3	156	238							
70	255	247	183	108	149	220	262	220	140	70.9	133	216							
75	230	221	159	83.5	126	197	237	197	118	48.3	111	192							
80	204	196	137	60.3	102	174	211	173	97.4	28.6	90.7	169							
85	179	172	114	39.3	80.5	151	186	153	81.8	15.2	74.3	148							
90	162	150	94.8	22.2	63.0	131	165	142	77.0	13.6	68.6	135							
95	151	139	85.6	16.1	56.7	123	154	133	73.8	13.6	65.9	127							
100	142	130	81.3	15.7	54.2	115	144	120	68.0	13.7	60.6	113							
105	130	116	74.5	15.2	49.7	100	132	107	61.3	13.9	53.7	103							
110	118	105	65.9	15.0	44.4	92.8	121	102	58.5	14.3	50.3	98.7							
115	111	101	61.4	15.0	41.9	89.2	114	98.0	56.2	14.6	49.7	94.8							
120	105	96.2	58.1	14.9	39.6	85.3	108	93.4	52.5	15.0	48.4	90.1							
125	98.6	89.5	54.9	14.9	37.3	80.9	101	88.2	49.2	15.0	45.1	83.9							
130	90.8	83.1	49.9	14.7	35.1	75.8	95.2	81.8	46.0	15.2	39.8	77.8							
135	83.4	76.4	42.7	14.7	33.3	69.0	87.8	74.2	42.9	15.3	34.7	69.4							
140	75.8	67.8	35.5	14.9	31.9	61.8	79.3	66.8	39.9	15.5	30.2	58.7							
145	67.7	57.6	30.0	15.2	30.2	55.1	70.8	59.7	37.0	15.7	26.7	48.4							
150	58.7	45.8	25.9	15.6	28.6	48.7	62.7	52.7	34.1	16.1	24.0	38.6							
155	49.6	34.9	23.2	16.1	26.9	42.9	54.8	46.0	31.6	16.5	22.4	31.3							
160	41.3	27.1	21.4	16.9	25.2	37.0	46.8	39.2	29.3	17.8	21.2	25.5							
165	34.3	21.9	20.5	19.2	23.9	31.9	37.1	33.3	27.3	19.8	21.8	22.0							
170	26.8	19.2	22.0	21.7	23.5	27.5	23.7	28.2	25.5	21.7	22.8	20.1							
175	16.7	17.1	23.2	24.0	23.8	24.2	17.9	23.4	23.9	23.7	23.6	20.9							
180	15.3	20.0	24.3	25.1	24.5	22.4	15.3	20.0	24.3	25.1	24.5	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: