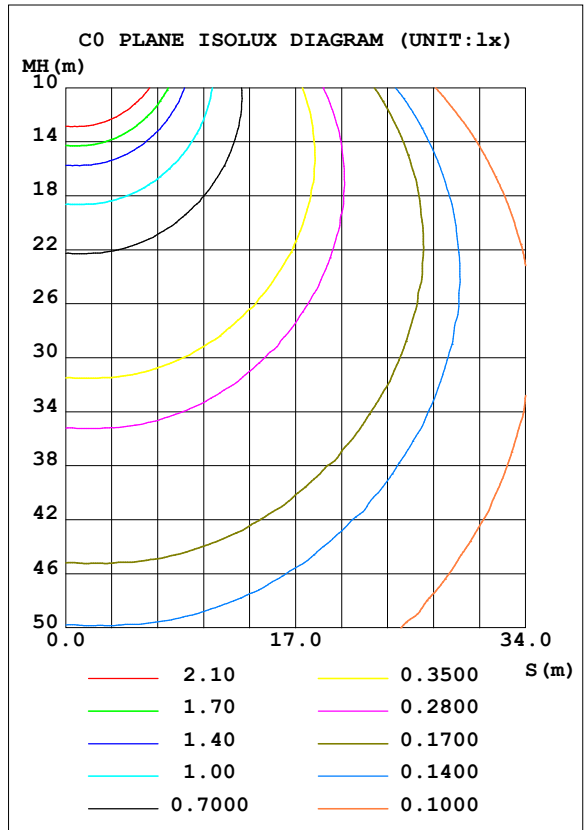
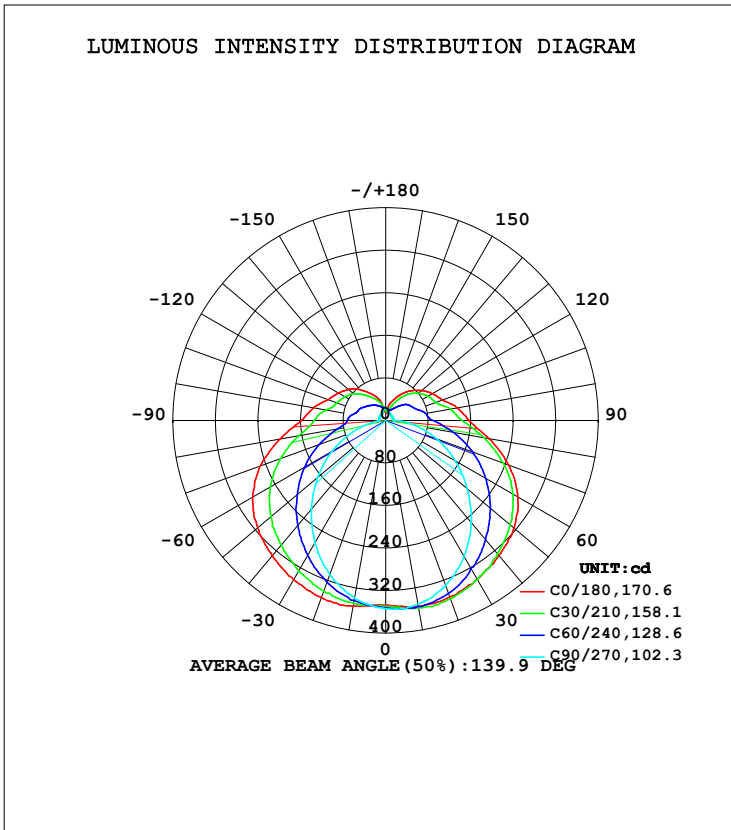


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.1460A P:17.30W PF:0.9820 Freq:60.00Hz Lamp Flux:1773.18x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.50 lm/W			
MODEL		I _{max} (cd)	361.3	S/MH (C0/180)	1.50
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.13
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1773.2	η UP, DN (C0-180)	11.1, 40.4
NOMINAL FLUX (lm)	1773.18	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	354.8	356.4	350.7	356.1	354.6	346.3	339.5	350.4	0- 10	33.62	33.62	1.9,1.9
20	353.2	351.4	330.6	345.2	354.4	332.5	308.0	336.6	10- 20	98.13	131.7	7.43,7.43
30	344.9	333.2	294.7	324.2	346.1	310.8	266.1	313.3	20- 30	152.2	283.9	16,16
40	332.0	309.9	250.6	294.6	331.7	281.4	217.2	283.2	30- 40	190.6	474.5	26.8,26.8
50	315.4	281.1	200.2	260.7	314.4	249.4	168.6	249.6	40- 50	211.2	685.7	38.7,38.7
60	287.0	246.6	150.9	222.2	288.7	213.3	116.1	212.0	50- 60	213.5	899.3	50.7,50.7
70	246.4	205.3	102.6	177.9	251.1	171.7	68.11	170.0	60- 70	196.5	1096	61.8,61.8
80	197.2	158.5	56.93	132.4	201.9	128.8	27.05	126.8	70- 80	162.4	1258	71,71
90	156.6	116.5	20.30	93.82	158.6	103.5	12.64	99.34	80- 90	122.7	1381	77.9,77.9
100	136.8	100.5	14.18	81.75	138.1	89.00	12.89	84.84	90-100	99.33	1480	83.5,83.5
110	113.5	81.11	13.65	66.34	115.5	76.46	13.39	72.71	100-110	81.40	1562	88.1,88.1
120	101.5	73.33	13.76	60.26	103.1	69.35	14.17	67.19	110-120	67.15	1629	91.9,91.9
130	87.77	63.28	14.00	53.39	91.36	60.75	14.49	56.88	120-130	54.40	1683	94.9,94.9
140	73.00	49.20	14.35	45.35	76.00	50.46	14.85	43.10	130-140	39.92	1723	97.2,97.2
150	56.43	34.35	15.16	37.44	59.40	41.39	15.47	30.37	140-150	25.93	1749	98.6,98.6
160	40.25	23.31	16.51	30.07	45.30	33.08	17.09	22.54	150-160	14.88	1764	99.5,99.5
170	25.41	19.97	21.09	24.70	23.61	25.80	20.98	20.69	160-170	7.248	1771	99.9,99.9
180	14.74	21.64	24.22	22.61	14.75	21.62	24.26	22.59	170-180	2.073	1773	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 578.68 lm

%lum = 32.6%
%lamp = 32.6%

Conical surface Flux(120deg): 899.29 lm

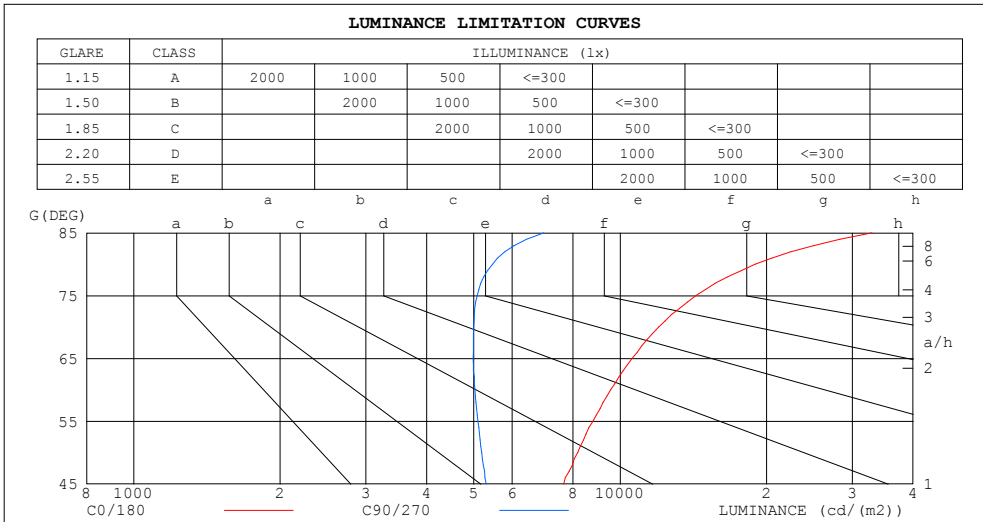
%lum = 50.7%
%lamp = 50.7%

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:0.1460A P:17.30W PF:0.9820 Freq:60.00Hz Lamp Flux:1773.18x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	32928	6968
80	18930	5464
75	14299	5082
70	12007	5001
65	10585	4987
60	9566	5029
55	8792	5099
50	8177	5191
45	7658	5301

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:0.9820 Freq:60.00Hz Lamp Flux:1773.18x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3000K	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	.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	.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	.326	.299	.304	.279	.257	.208	.192	.178	.120	.111	.103	.038	.036	.033	
2.0	.348	.303	.265	.298	.261	.229	.204	.180	.160	.118	.105	.094	.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	.191	.193	.160	.135	.112	.094	.080	.036	.031	.026	
6.0	.318	.257	.212	.274	.222	.185	.189	.156	.131	.110	.091	.078	.035	.030	.026	
7.0	.311	.250	.207	.268	.217	.180	.185	.152	.128	.108	.090	.076	.035	.029	.025	
8.0	.305	.244	.203	.262	.212	.177	.182	.149	.126	.106	.088	.075	.034	.029	.025	
9.0	.299	.240	.200	.257	.208	.174	.178	.146	.124	.104	.086	.074	.034	.028	.024	
10.0	.293	.236	.198	.252	.205	.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:0.1460A P:17.30W PF:0.9820 Freq:60.00Hz Lamp Flux:1773.18x1 lm										
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3000K					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	19.1	18.6	19.8	20.5
6H	23.3	24.4	24.0	25.1	25.8	18.7	19.7	19.3	20.4	21.1
8H	24.1	25.2	24.8	25.8	26.6	18.9	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	20.2	20.9	16.8	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	21.7	22.5	23.4
12H	26.5	27.2	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	20.8	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	24.0	24.8	25.6	21.2	21.9	21.9	22.6	23.4
6H	25.4	26.0	26.2	26.8	27.7	22.6	23.2	23.4	23.9	24.8
8H	26.7	27.2	27.4	27.9	28.9	23.4	23.9	24.1	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	+ 0.2 / - 0.4					+ 0.3 / - 0.5				

CIE Pub.117, 1773 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:0.9820 Freq:60.00Hz Lamp Flux:1773.18x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

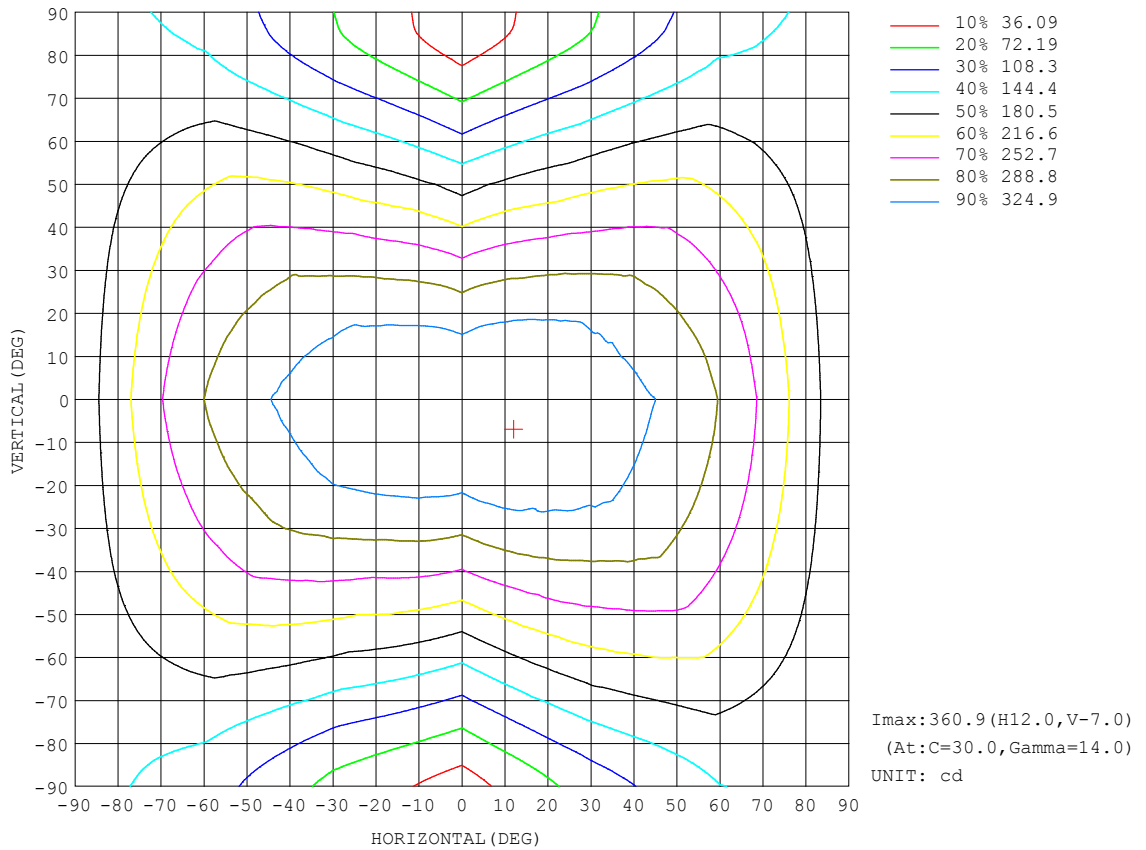
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	34	27	45	34	27	43	33	26	19
0.80	56	43	35	54	42	34	51	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	76	63	55	73	61	53	67	58	51	40
2.00	83	72	63	79	69	62	73	65	59	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:0.1460A P:17.30W PF:0.9820 Freq:60.00Hz Lamp Flux:1773.18x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

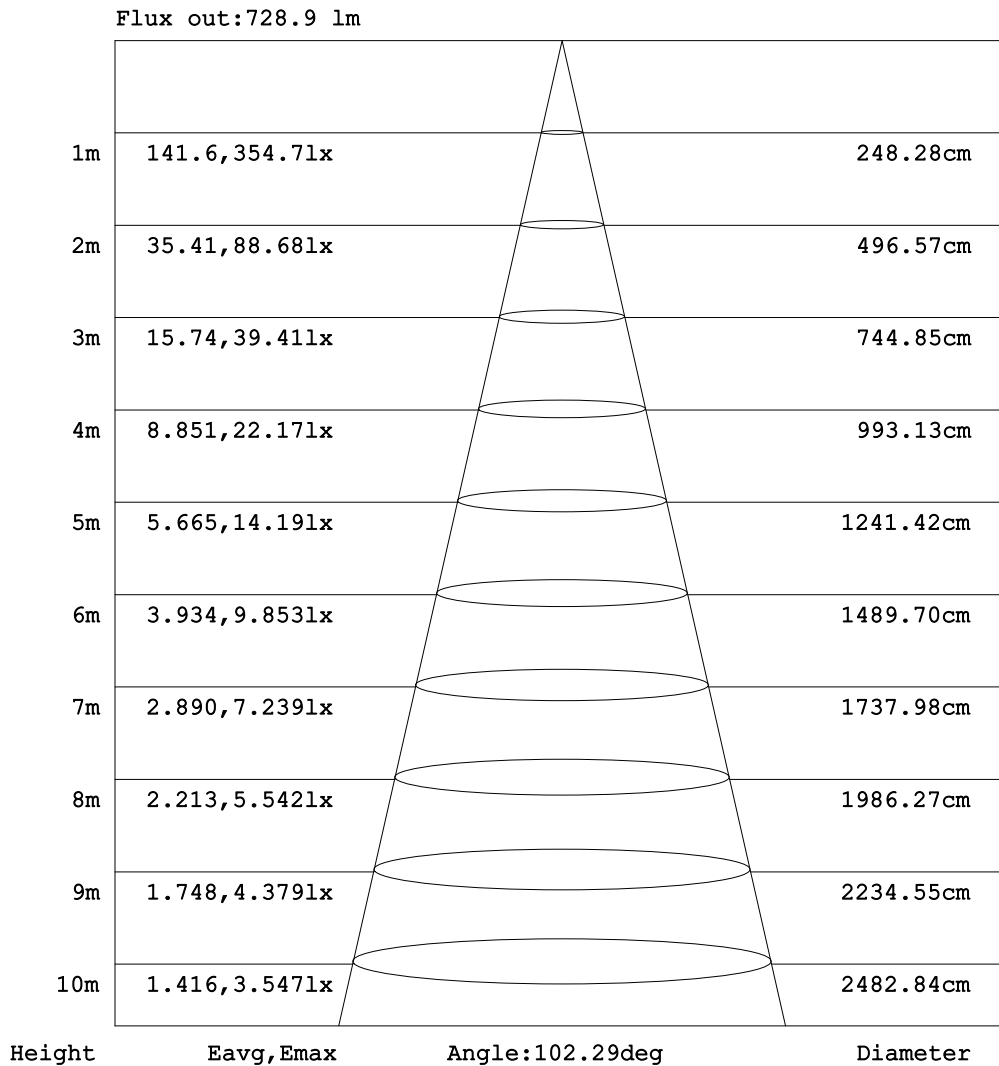


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-04-16

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:0.9820 Freq:60.00Hz Lamp Flux:1773.18x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

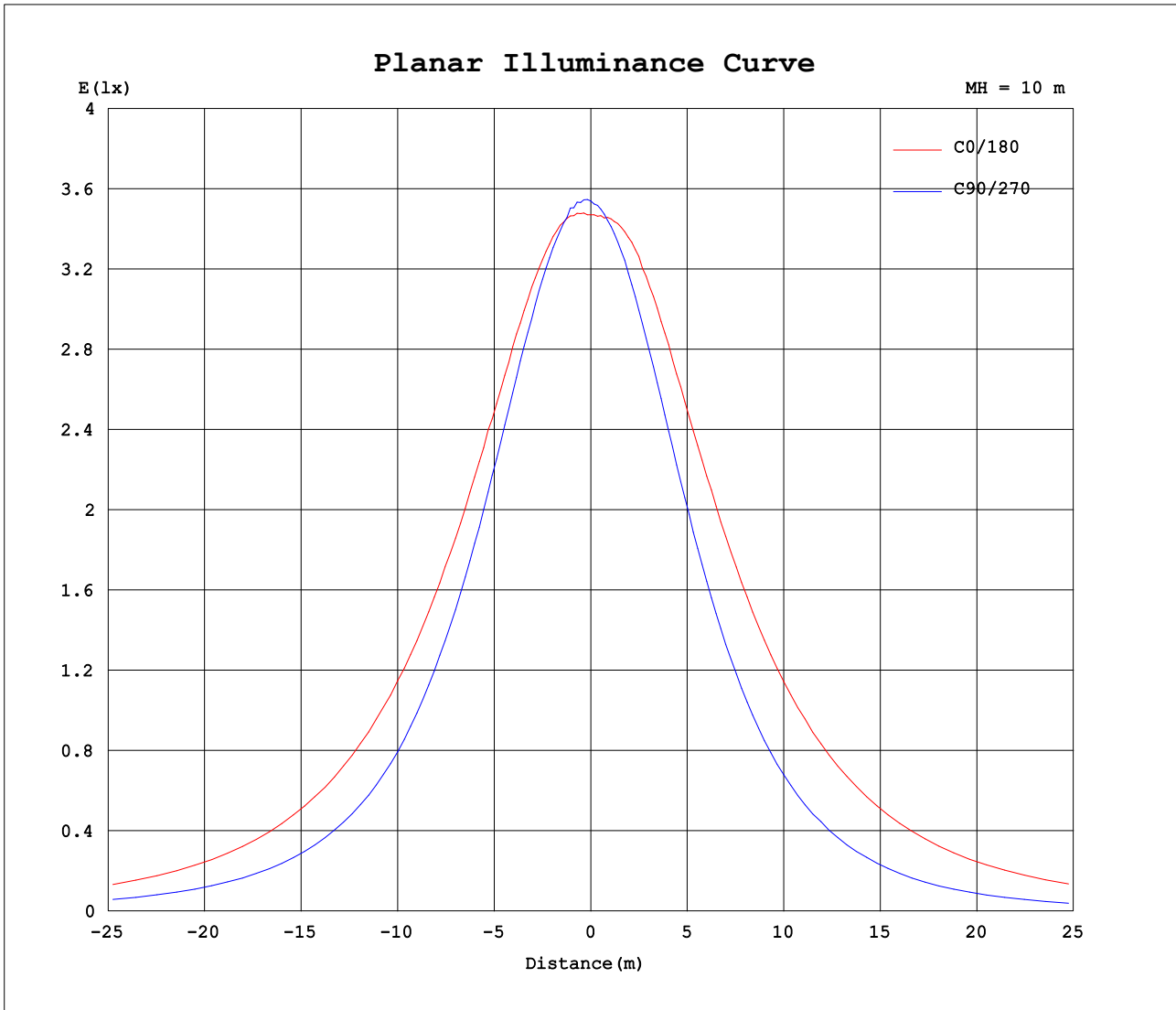


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.9820 Freq:60.00Hz Lamp Flux:1773.18x1 lm		
NAME: LVF1S-24-18-95C-MVUD-NS 整灯 3000K	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	347	350	352	354	354	352	347	350	352	354	354	352							
5	351	354	355	355	355	354	350	349	349	348	352	355							
10	355	358	355	351	354	358	355	349	343	340	346	355							
15	356	359	353	343	349	356	356	347	335	325	338	352							
20	353	357	346	331	339	352	354	341	324	308	326	347							
25	349	352	336	314	327	345	351	334	309	288	312	339							
30	345	346	320	295	312	336	346	328	293	266	296	331							
35	338	339	309	274	294	326	340	316	276	242	278	321							
40	332	327	293	251	275	314	332	306	257	217	258	308							
45	325	317	275	225	255	301	324	294	239	193	239	296							
50	315	305	257	200	234	287	314	282	217	169	217	282							
55	303	292	237	175	213	271	303	267	197	143	196	267							
60	287	276	217	151	191	254	289	250	176	116	175	249							
65	268	258	196	126	168	233	272	232	155	91.7	153	230							
70	246	235	175	103	145	211	251	210	133	68.1	132	208							
75	222	211	152	78.9	122	188	226	188	112	46.2	110	186							
80	197	188	129	56.9	99.1	166	202	165	92.1	27.0	90.2	163							
85	172	164	107	36.4	78.7	144	178	146	77.1	14.1	74.1	143							
90	157	144	89.3	20.3	62.1	125	159	134	72.6	12.6	68.3	130							
95	146	133	80.6	14.4	56.1	117	148	127	69.7	12.7	65.6	122							
100	137	124	76.5	14.2	53.5	110	138	114	64.1	12.9	60.4	109							
105	125	110	70.0	13.9	49.2	96.0	127	102	57.8	13.1	53.9	99.0							
110	114	100	62.0	13.6	43.9	88.8	116	97.7	55.2	13.4	50.2	95.3							
115	107	96.1	58.0	13.7	41.3	85.3	109	93.6	53.2	13.8	48.9	91.5							
120	101	91.9	54.7	13.8	38.9	81.6	103	89.1	49.6	14.2	47.7	86.6							
125	95.3	86.1	51.6	13.9	36.4	77.5	97.2	84.1	46.1	14.4	44.3	80.8							
130	87.8	79.6	46.9	14.0	34.4	72.4	91.4	78.3	43.2	14.5	38.9	74.8							
135	80.3	72.9	40.4	14.1	32.6	66.0	84.7	70.9	40.4	14.7	33.9	66.9							
140	73.0	64.4	34.0	14.4	31.3	59.4	76.0	63.1	37.8	14.9	29.5	56.7							
145	64.7	54.6	28.7	14.7	29.9	52.7	67.2	56.3	35.5	15.1	26.2	46.8							
150	56.4	43.9	24.8	15.2	28.2	46.7	59.4	49.9	32.9	15.5	23.5	37.3							
155	48.3	33.6	22.2	15.7	26.5	41.1	52.3	44.0	30.3	15.9	21.7	30.3							
160	40.2	26.1	20.5	16.5	24.8	35.3	45.3	38.1	28.0	17.1	20.4	24.7							
165	33.3	21.3	19.8	18.7	23.5	30.5	36.4	32.0	26.1	19.0	20.9	21.3							
170	25.4	18.5	21.4	21.1	22.9	26.5	23.6	27.2	24.4	21.0	21.9	19.5							
175	15.8	16.9	22.7	23.3	23.0	23.4	17.3	22.8	23.0	22.8	22.8	20.2							
180	14.7	19.7	23.5	24.2	23.6	21.6	14.8	19.7	23.5	24.3	23.6	21.6							

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: