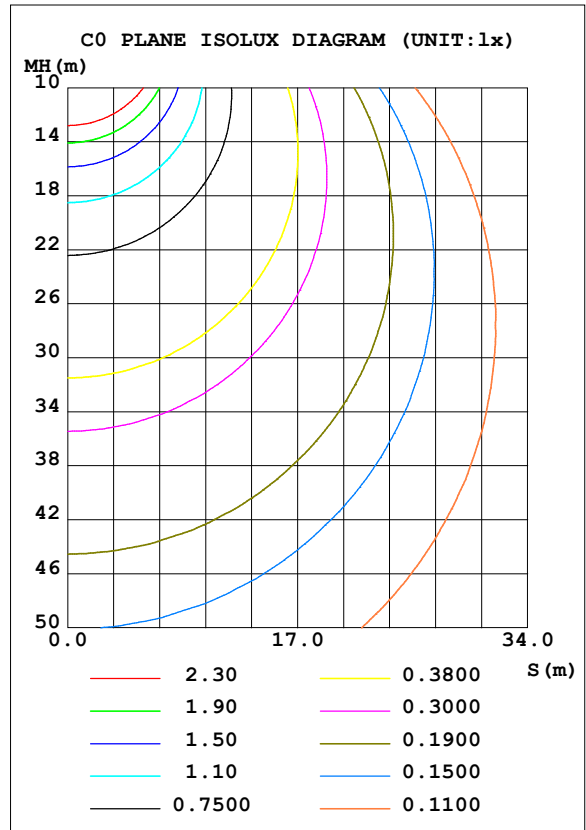
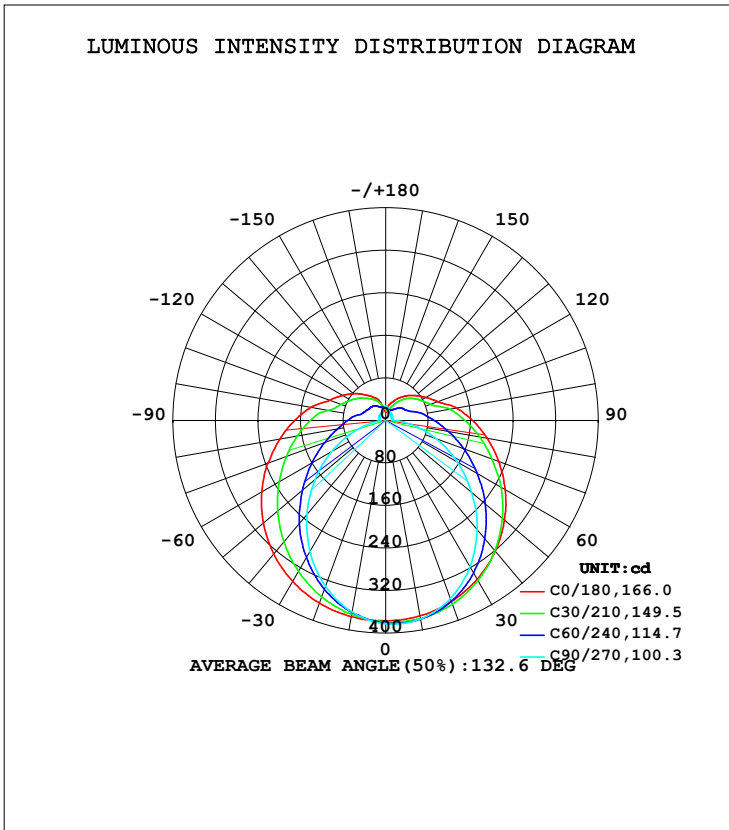


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1727.62x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 99.86 lm/W			
MODEL		I _{max} (cd)	383.4	S/MH (C0/180)	1.39
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.13
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1727.6	η UP, DN (C0-180)	10.5, 40.9
NOMINAL FLUX (lm)	1727.62	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	10.6, 38.0
LAMPS INSIDE	1	η up (%)	21.1	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	78.9	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	372.7	378.7	379.0	379.0	374.8	368.4	365.6	372.4	0- 10	36.02	36.02	2.08,2.08
20	362.3	364.8	356.2	362.1	365.4	345.4	331.6	350.1	10- 20	103.3	139.3	8.07,8.07
30	344.7	339.3	317.6	333.2	349.8	313.0	285.0	317.2	20- 30	157.3	296.7	17.2,17.2
40	320.7	304.8	267.7	296.2	327.7	275.6	230.5	278.9	30- 40	192.5	489.1	28.3,28.3
50	291.9	265.7	211.1	254.4	300.5	234.7	173.4	237.2	40- 50	206.7	695.9	40.3,40.3
60	259.5	224.7	155.0	211.7	269.4	196.0	116.8	197.0	50- 60	202.2	898.1	52,52
70	226.2	184.7	101.3	170.5	235.6	160.6	65.55	160.4	60- 70	183.0	1081	62.6,62.6
80	193.8	149.4	52.93	134.2	202.1	130.5	24.53	129.5	70- 80	155.4	1237	71.6,71.6
90	163.3	120.4	17.95	105.3	171.4	107.1	11.61	104.4	80- 90	126.4	1363	78.9,78.9
100	135.5	97.30	11.90	84.22	143.1	83.33	12.52	81.54	90-100	101.7	1465	84.8,84.8
110	104.3	70.43	12.15	61.42	112.4	66.93	13.54	63.87	100-110	76.60	1541	89.2,89.2
120	87.12	59.02	13.10	52.63	94.27	58.46	14.81	56.93	110-120	59.01	1600	92.6,92.6
130	73.16	51.03	14.32	46.50	78.53	51.70	15.33	48.56	120-130	46.42	1647	95.3,95.3
140	60.79	40.56	15.58	40.92	63.67	45.03	15.79	37.86	130-140	34.35	1681	97.3,97.3
150	48.67	30.57	16.93	35.52	52.15	38.58	16.44	28.28	140-150	23.20	1704	98.6,98.6
160	36.88	22.98	18.45	29.50	41.70	31.47	18.15	21.92	150-160	14.06	1718	99.5,99.5
170	27.77	20.56	23.49	25.57	19.12	26.07	23.29	20.53	160-170	7.165	1725	99.9,99.9
180	17.12	24.24	27.10	24.37	17.11	24.23	27.13	24.37	170-180	2.197	1728	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 592.03 lm

%lum = 34.3%
%lamp = 34.3%

Conical surface Flux(120deg): 898.08 lm

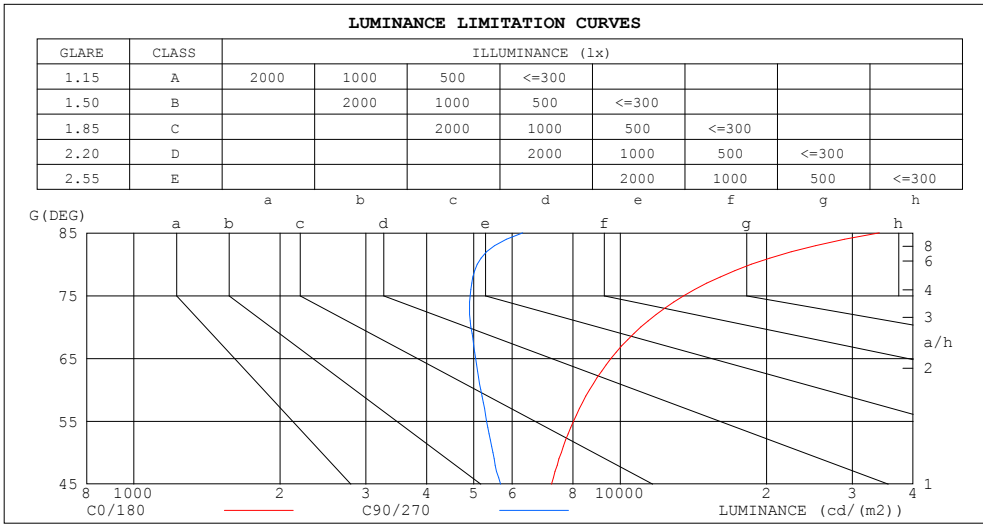
%lum = 52.0%
%lamp = 52.0%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1727.62x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 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	34079	6308
80	18598	5081
75	13533	4915
70	11024	4935
65	9583	5047
60	8649	5168
55	8023	5316
50	7569	5475
45	7226	5679

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:1727.62x1 lm														
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 3000K							TYPE:				WEIGHT:			
SPEC.:							DIM.:				SERIAL No.:			
MFR.: 革星							SUR.:24寸				Shielding Angle:			

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.379	.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	.271	.152	.048	.252	.142	.045	
3.0	.292	.155	.046	.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	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.351	.351	.351	.300	.300	.300	.205	.205	.205	.118	.118	.118	.038	.038	.038	
1.0	.347	.318	.291	.297	.273	.250	.203	.188	.173	.117	.109	.101	.037	.035	.033	
2.0	.340	.295	.257	.292	.254	.222	.200	.176	.155	.115	.102	.091	.037	.033	.030	
3.0	.333	.279	.235	.285	.240	.204	.196	.167	.143	.113	.097	.084	.036	.032	.028	
4.0	.325	.266	.221	.279	.230	.192	.192	.160	.135	.111	.094	.080	.036	.031	.026	
5.0	.317	.256	.211	.273	.222	.184	.188	.155	.130	.109	.091	.077	.035	.030	.025	
6.0	.310	.248	.204	.266	.215	.178	.184	.151	.126	.107	.089	.075	.034	.029	.025	
7.0	.303	.242	.199	.261	.210	.173	.180	.147	.123	.105	.087	.073	.034	.028	.024	
8.0	.296	.236	.195	.255	.205	.170	.177	.144	.121	.103	.085	.072	.033	.028	.024	
9.0	.290	.232	.192	.250	.201	.168	.173	.141	.119	.101	.083	.071	.033	.027	.024	
10.0	.284	.227	.190	.245	.198	.165	.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:1727.62x1 lm										
NAME: LVF1R-24-18-95C-MVUD-BL 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	17.5	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	21.9	22.5	17.1	18.3	17.7	18.9	19.6
4H	21.5	22.7	22.1	23.3	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	20.9
4H	22.6	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	26.9	27.7	20.8	21.5	21.4	22.2	23.0
12H	26.5	27.3	27.3	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	20.5	21.3	21.2	22.0	22.8
6H	25.1	25.7	25.8	26.5	27.3	21.8	22.5	22.5	23.2	24.0
8H	26.3	26.9	27.0	27.6	28.5	22.4	23.0	23.2	23.7	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	22.3	22.9	23.1	23.7	24.6
8H	26.6	27.1	27.3	27.8	28.7	23.1	23.6	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, 1728 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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1727.62x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

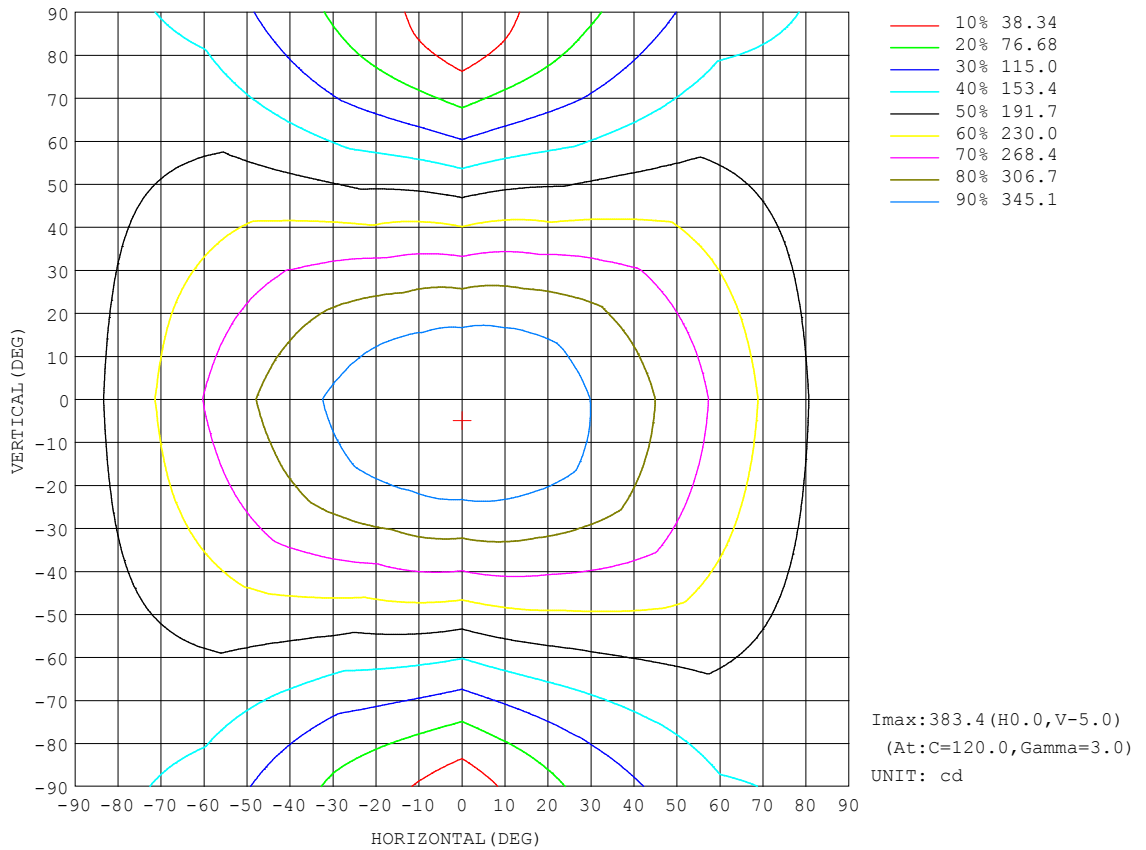
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	35	28	46	35	28	44	34	27	20
0.80	57	44	36	55	43	35	52	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	56	73	62	54	68	59	52	41
2.00	83	72	64	80	70	63	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	62
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:1727.62x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

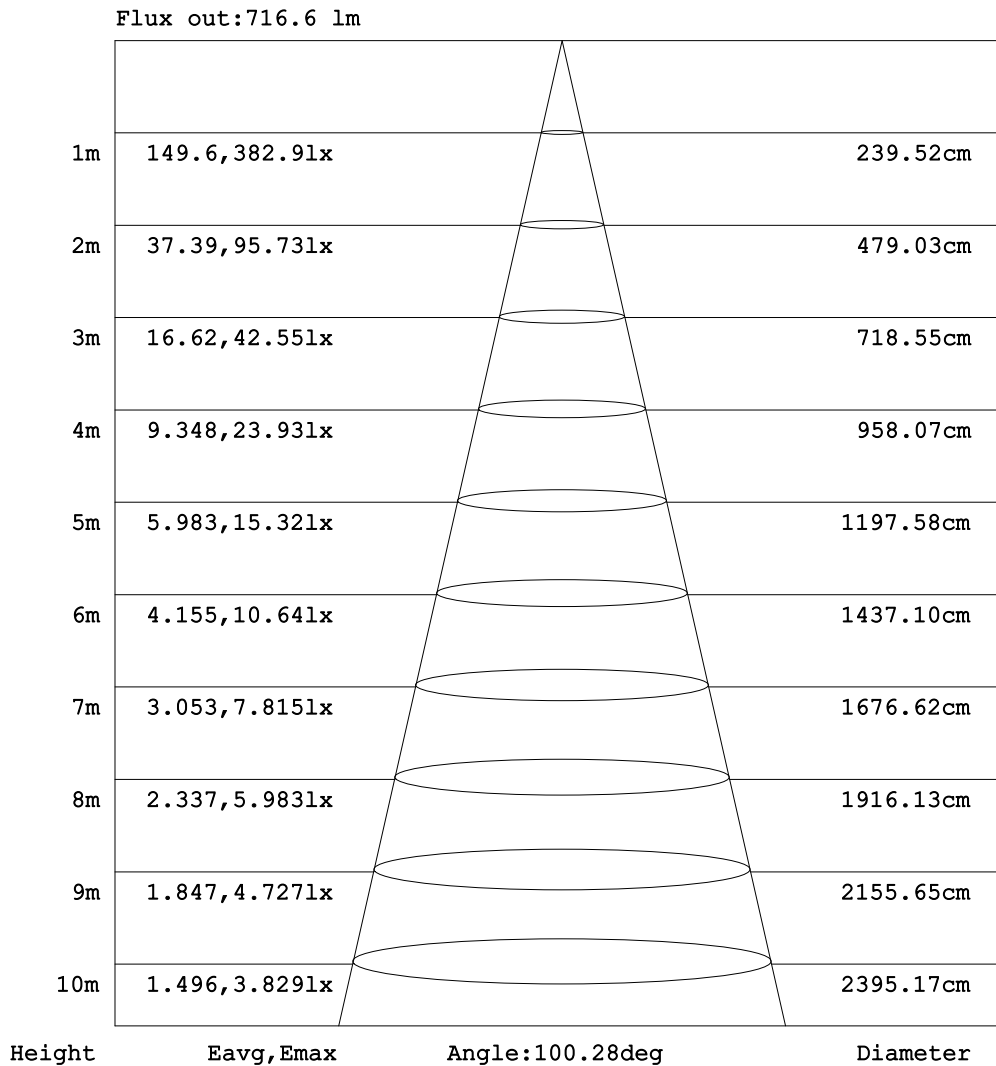


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-04-16

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:0.9830 Freq:60.00Hz Lamp Flux:1727.62x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

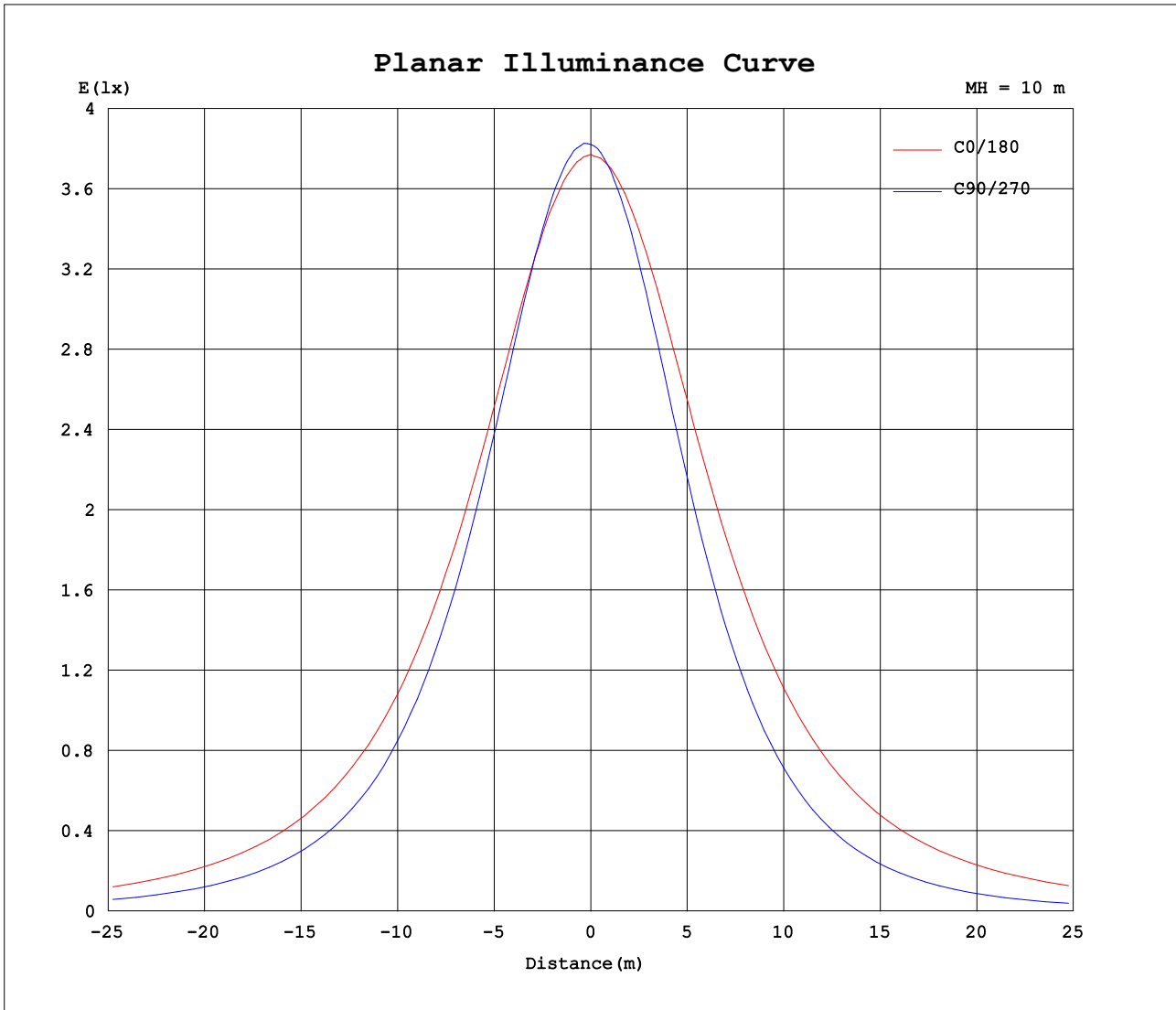


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.9830 Freq:60.00Hz Lamp Flux:1727.62x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 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	377	379	382	382	383	382	377	379	382	382	383	382							
5	376	380	382	383	383	382	376	376	376	376	378	379							
10	373	378	379	379	379	379	375	370	367	366	370	375							
15	368	374	372	370	370	374	371	362	354	351	358	367							
20	362	368	362	356	359	366	365	353	338	332	342	358							
25	354	358	348	339	343	356	358	341	319	310	323	346							
30	345	348	331	318	323	343	350	328	298	285	303	332							
35	333	335	312	294	302	328	340	314	276	258	280	317							
40	321	320	290	268	279	313	328	298	253	230	257	301							
45	307	303	268	241	255	296	314	282	228	202	231	284							
50	292	287	245	211	231	278	300	265	205	173	208	267							
55	276	269	221	183	206	259	285	249	182	145	185	249							
60	259	251	199	155	182	241	269	231	161	117	163	231							
65	243	231	177	128	159	221	253	215	140	90.4	143	213							
70	226	213	157	101	138	203	236	199	122	65.6	124	197							
75	210	196	137	76.3	116	186	218	183	106	43.1	108	181							
80	194	180	119	52.9	98.3	170	202	169	92.1	24.5	93.3	166							
85	178	164	104	33.0	82.9	155	186	155	80.9	13.1	81.5	151							
90	163	149	91.4	17.9	70.3	140	171	142	71.9	11.6	71.3	137							
95	149	136	80.6	12.3	60.8	128	157	130	64.8	11.9	63.6	126							
100	135	123	71.5	11.9	53.5	115	143	111	56.0	12.5	54.9	108							
105	118	104	61.6	12.2	46.3	94.7	126	96.7	47.9	12.9	46.1	93.7							
110	104	90.1	50.8	12.1	38.3	84.6	112	89.4	44.4	13.5	41.4	86.3							
115	95.3	82.9	45.0	12.6	35.1	77.9	103	82.7	42.4	14.2	40.6	79.8							
120	87.1	76.6	41.4	13.1	33.4	71.9	94.3	76.6	40.3	14.8	39.7	74.1							
125	79.9	71.0	39.6	13.7	32.3	66.5	86.4	70.9	38.8	15.1	37.8	68.4							
130	73.2	65.0	37.0	14.3	31.8	61.2	78.5	65.6	37.8	15.3	34.7	62.4							
135	66.8	58.9	33.0	14.9	31.4	55.8	71.4	59.5	36.7	15.6	30.8	55.8							
140	60.8	52.2	28.9	15.6	30.9	50.9	63.7	54.4	35.7	15.8	27.2	48.5							
145	54.3	45.0	25.6	16.3	29.7	46.9	57.5	50.0	33.9	16.0	24.7	41.0							
150	48.7	37.5	23.7	16.9	27.9	43.1	52.2	45.8	31.3	16.4	22.6	33.9							
155	42.4	30.5	21.9	17.6	25.9	39.5	47.1	41.6	28.5	16.9	21.2	28.3							
160	36.9	25.4	20.6	18.5	24.3	34.7	41.7	36.1	26.8	18.2	20.2	23.7							
165	32.3	21.9	20.0	20.7	24.2	29.3	33.2	30.2	25.9	20.7	20.6	20.8							
170	27.8	19.6	21.5	23.5	24.9	26.2	19.1	26.5	25.6	23.3	22.2	18.9							
175	18.7	18.0	24.3	26.0	25.9	24.7	17.5	24.1	25.7	25.7	24.3	19.0							
180	17.1	21.7	26.8	27.1	26.2	22.5	17.1	21.7	26.7	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: