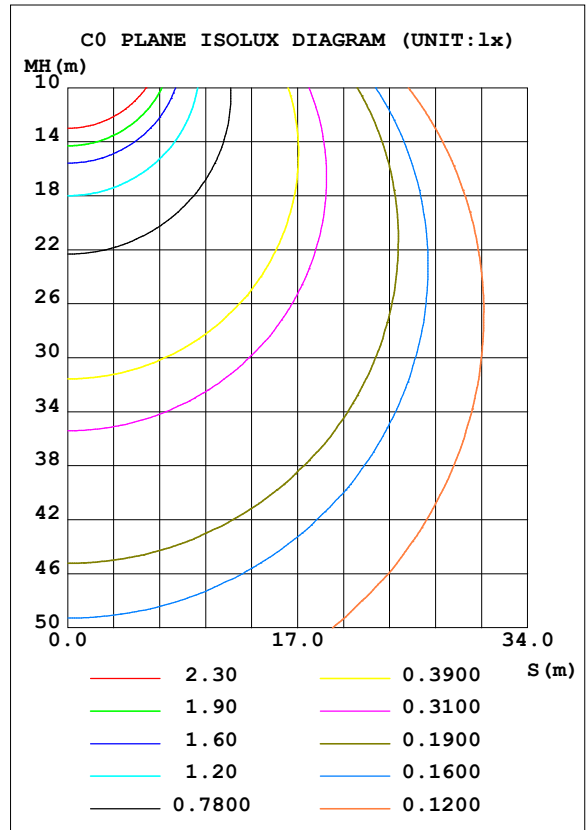
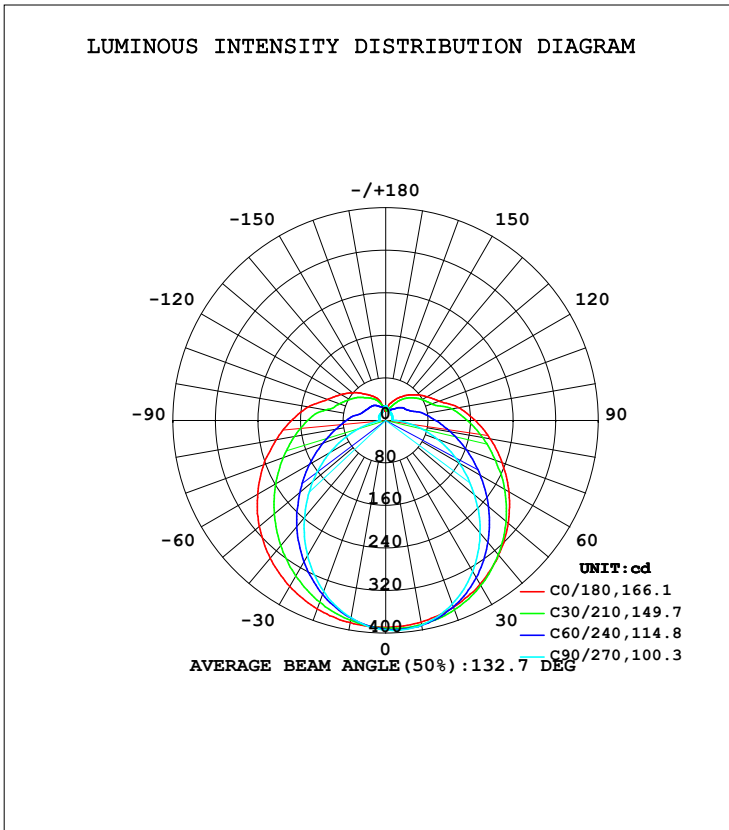


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1782.98x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 104.27 lm/W			
MODEL		I _{max} (cd)	395.4	S/MH (C0/180)	1.39
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.13
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1783.0	η UP, DN (C0-180)	10.5, 40.9
NOMINAL FLUX (lm)	1782.98	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	385.0	390.4	390.5	390.8	386.0	379.6	376.8	383.3	0- 10	37.13	37.13	2.08,2.08
20	373.6	375.9	367.1	373.2	377.1	355.6	341.7	360.3	10- 20	106.5	143.6	8.05,8.05
30	355.3	349.7	327.2	343.9	360.5	322.8	293.7	327.0	20- 30	162.2	305.8	17.2,17.2
40	330.3	314.3	276.0	305.5	338.0	283.9	237.6	287.5	30- 40	198.5	504.3	28.3,28.3
50	300.9	273.9	217.6	262.9	310.3	242.1	179.1	244.4	40- 50	213.3	717.5	40.2,40.2
60	267.4	231.7	159.8	218.8	278.3	202.1	121.2	203.2	50- 60	208.6	926.2	51.9,51.9
70	233.4	190.7	104.3	176.1	244.3	165.7	67.77	165.5	60- 70	189.0	1115	62.5,62.5
80	199.6	154.6	54.78	138.7	209.1	134.7	25.44	133.7	70- 80	160.5	1276	71.5,71.5
90	168.5	124.1	18.38	109.1	177.3	110.5	11.96	107.8	80- 90	130.5	1406	78.9,78.9
100	139.4	100.2	12.31	87.08	148.2	86.09	12.91	84.35	90-100	105.1	1511	84.8,84.8
110	107.3	72.43	12.60	63.65	116.4	69.17	13.94	66.14	100-110	79.11	1590	89.2,89.2
120	89.63	61.09	13.57	54.53	97.62	60.45	15.24	58.79	110-120	60.97	1651	92.6,92.6
130	75.51	52.49	14.85	48.22	81.40	53.45	15.76	50.28	120-130	48.01	1699	95.3,95.3
140	62.32	41.99	16.15	42.40	65.93	46.56	16.24	39.25	130-140	35.50	1735	97.3,97.3
150	49.77	31.48	17.53	36.76	53.91	39.90	16.88	29.33	140-150	23.97	1759	98.6,98.6
160	37.98	23.80	19.11	30.48	43.14	32.53	18.62	22.70	150-160	14.52	1773	99.5,99.5
170	28.55	21.31	24.33	26.44	19.67	27.04	23.93	21.17	160-170	7.399	1781	99.9,99.9
180	17.67	25.07	27.90	25.04	17.68	25.06	27.92	25.03	170-180	2.267	1783	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 610.39 lm

%lum = 34.2%
%lamp = 34.2%

Conical surface Flux(120deg): 926.18 lm

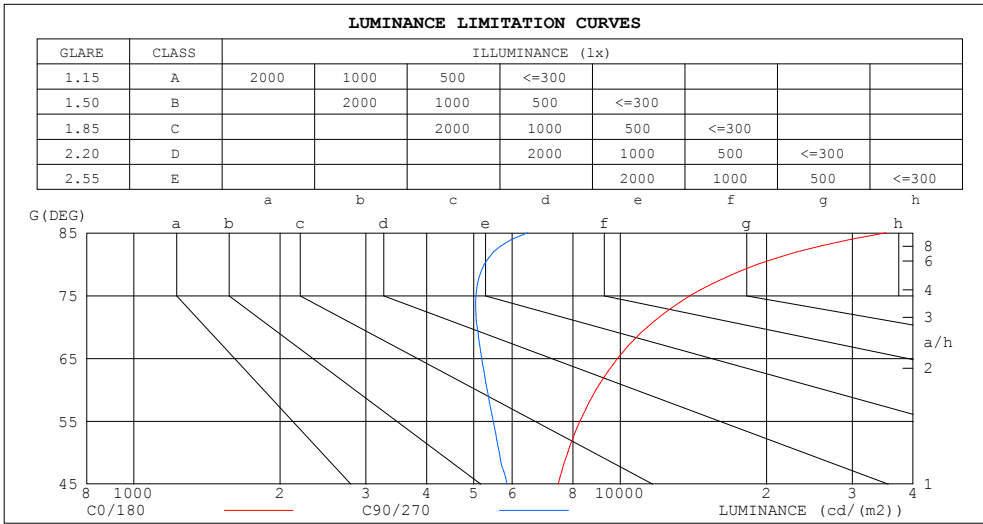
%lum = 51.9%
%lamp = 51.9%

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:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1782.98x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	35137	6447
80	19162	5258
75	13931	5057
70	11375	5081
65	9878	5190
60	8915	5328
55	8267	5485
50	7803	5642
45	7454	5850

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:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1782.98x1 lm														
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 3500K							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	.351	.351	.351	.300	.300	.300	.205	.205	.205	.118	.118	.118	.038	.038	.038	
1.0	.347	.318	.291	.297	.273	.251	.203	.188	.173	.117	.109	.101	.037	.035	.033	
2.0	.341	.295	.257	.292	.254	.222	.200	.176	.155	.115	.102	.091	.037	.033	.030	
3.0	.333	.279	.236	.285	.240	.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	.211	.273	.222	.184	.188	.155	.130	.109	.091	.077	.035	.030	.025	
6.0	.310	.249	.204	.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	.290	.232	.192	.250	.201	.168	.173	.141	.119	.101	.084	.071	.033	.027	.024	
10.0	.285	.228	.190	.245	.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:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1782.98x1 lm										
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 3500K					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	22.6	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	20.9
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	26.1	26.1	26.8	27.7	20.8	21.5	21.5	22.2	23.0
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	20.5	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	23.8	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	22.3	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, 1783 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:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1782.98x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

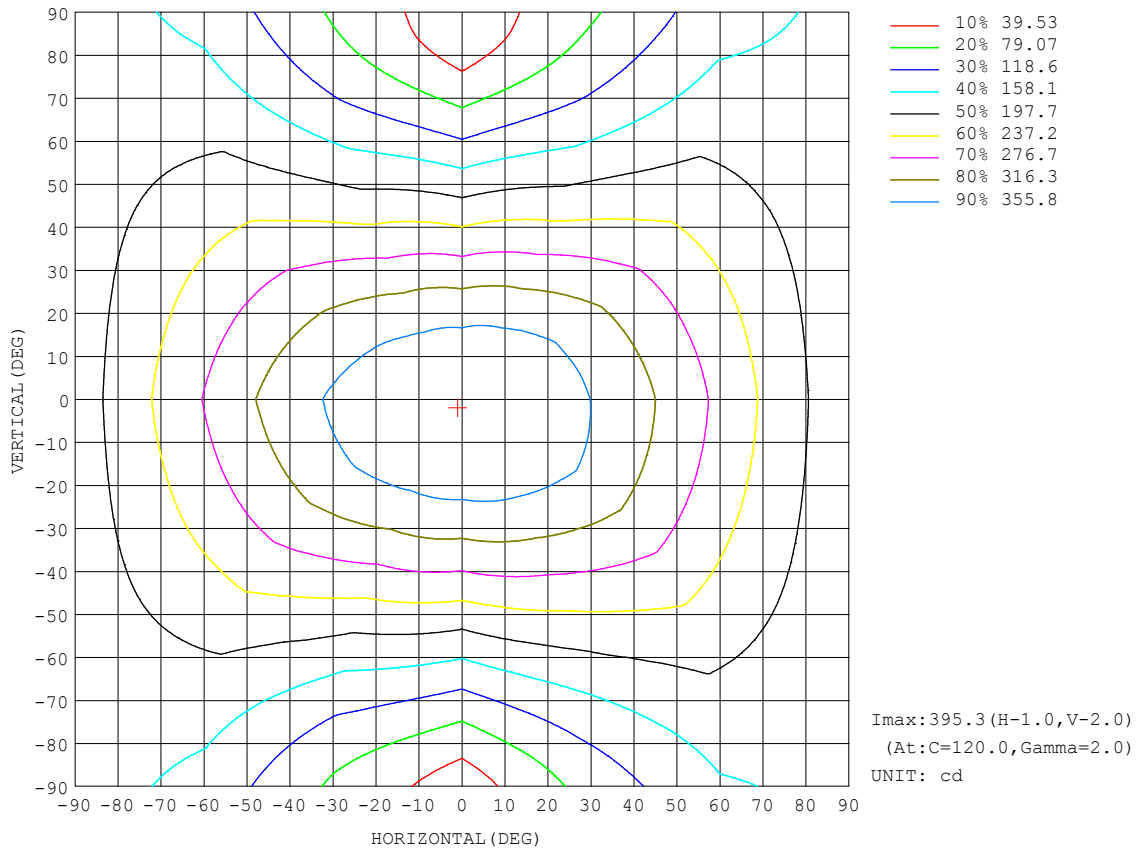
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	35	28	46	35	28	44	34	27	20
0.80	57	44	36	55	43	35	52	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:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1782.98x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

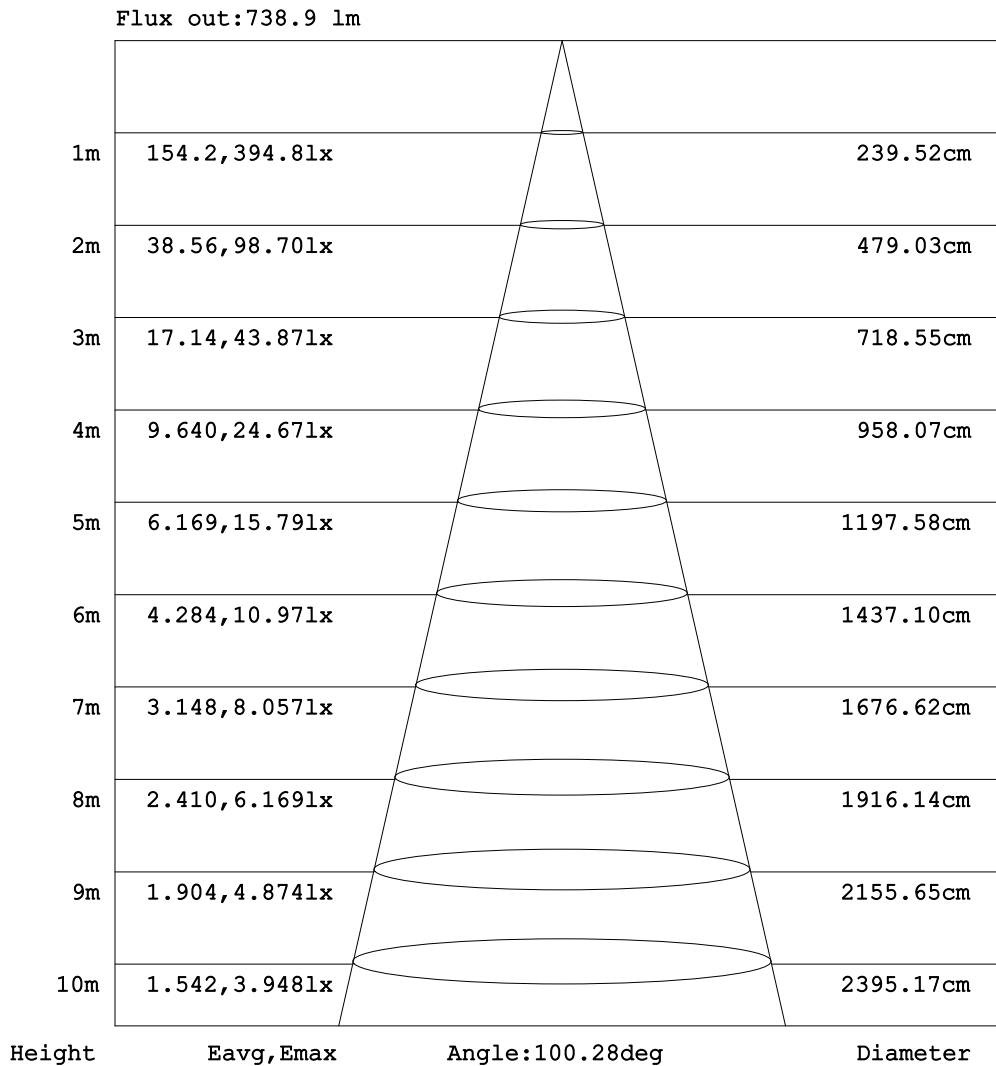


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-04-16

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:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1782.98x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

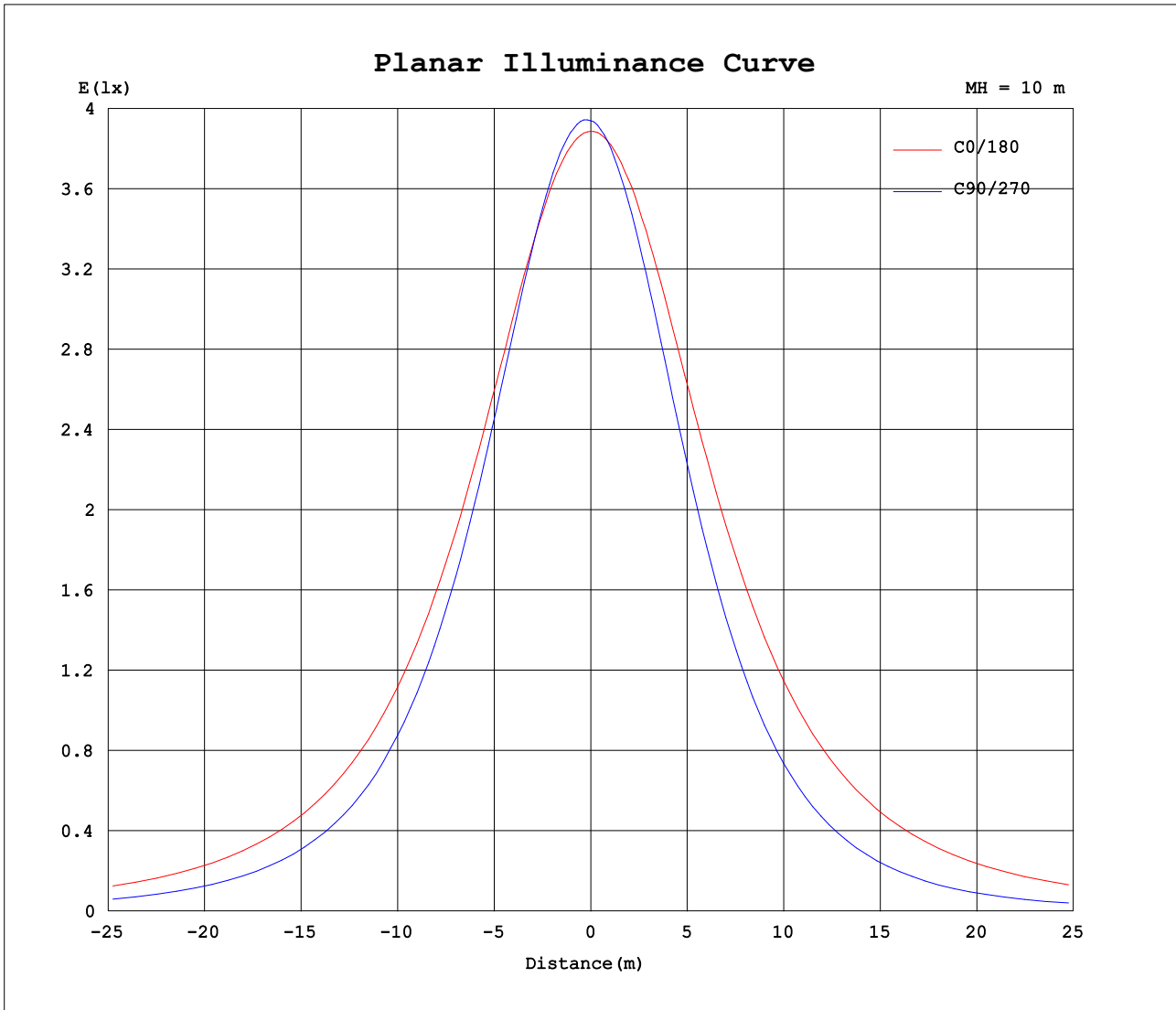


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1782.98x1 lm		
NAME: LVF1R-24-18-95C-MVUD-BL 整灯 3500K	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	389	391	393	394	395	394	389	391	393	394	395	394							
5	388	391	394	395	395	394	388	387	387	388	390	391							
10	385	390	391	390	390	391	386	382	377	377	381	386							
15	380	386	384	382	382	385	382	374	364	361	368	378							
20	374	379	373	367	369	377	377	363	348	342	352	368							
25	365	370	359	349	353	367	369	351	328	319	333	356							
30	355	358	341	327	334	354	360	338	307	294	312	342							
35	344	345	321	303	312	339	350	323	284	267	289	327							
40	330	329	299	276	288	323	338	307	261	238	265	310							
45	316	313	276	248	264	305	325	290	236	208	240	293							
50	301	295	252	218	239	287	310	273	211	179	214	275							
55	285	277	229	189	213	268	295	256	188	150	191	256							
60	267	258	205	160	188	249	278	239	166	121	168	238							
65	250	240	183	132	165	228	261	222	145	93.4	147	220							
70	233	220	162	104	142	210	244	205	126	67.8	128	203							
75	216	202	142	78.5	121	192	226	189	109	44.7	111	187							
80	200	185	124	54.8	102	176	209	174	95.0	25.4	96.2	171							
85	184	169	108	33.7	85.8	160	193	160	83.4	13.6	84.0	156							
90	168	154	94.2	18.4	72.9	145	177	147	74.2	12.0	73.5	142							
95	154	140	83.1	12.7	63.0	132	163	135	66.8	12.3	65.7	130							
100	139	127	73.7	12.3	55.5	119	148	114	57.8	12.9	56.8	112							
105	123	107	63.4	12.6	47.9	97.7	131	99.9	49.4	13.3	47.8	96.9							
110	107	92.4	52.4	12.6	39.6	87.7	116	92.5	45.9	13.9	42.9	89.3							
115	97.9	85.2	46.7	13.0	36.4	80.7	107	85.5	43.8	14.6	41.9	82.6							
120	89.6	79.2	43.0	13.6	34.6	74.5	97.6	79.3	41.6	15.2	41.1	76.5							
125	82.6	73.0	41.2	14.2	33.5	68.8	89.4	73.4	40.0	15.5	39.1	70.7							
130	75.5	66.7	38.2	14.9	32.9	63.5	81.4	67.9	39.0	15.8	36.0	64.6							
135	68.6	60.5	34.4	15.4	32.6	57.8	73.8	61.6	38.0	16.0	31.9	57.9							
140	62.3	53.9	30.1	16.2	32.1	52.7	65.9	56.2	36.9	16.2	28.3	50.2							
145	55.6	46.3	26.5	16.8	30.8	48.5	59.6	51.7	35.0	16.5	25.6	42.5							
150	49.8	38.4	24.5	17.5	28.9	44.6	53.9	47.4	32.4	16.9	23.5	35.2							
155	43.4	31.2	22.6	18.3	26.8	40.9	48.8	43.1	29.5	17.3	21.9	29.3							
160	38.0	26.2	21.4	19.1	25.2	35.8	43.1	37.4	27.7	18.6	20.9	24.5							
165	33.2	22.7	20.7	21.5	25.0	30.2	34.1	31.2	26.7	21.2	21.3	21.5							
170	28.5	20.3	22.3	24.3	25.8	27.1	19.7	27.6	26.5	23.9	22.9	19.5							
175	19.1	18.6	25.2	26.9	26.7	25.5	18.1	25.1	26.5	26.4	25.0	19.5							
180	17.7	22.5	27.6	27.9	27.0	23.1	17.7	22.6	27.6	27.9	27.0	23.1							

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: