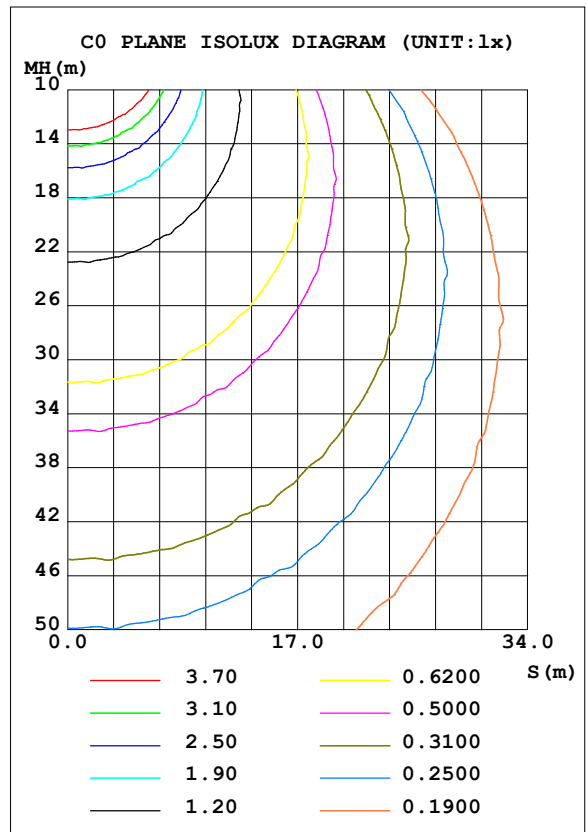
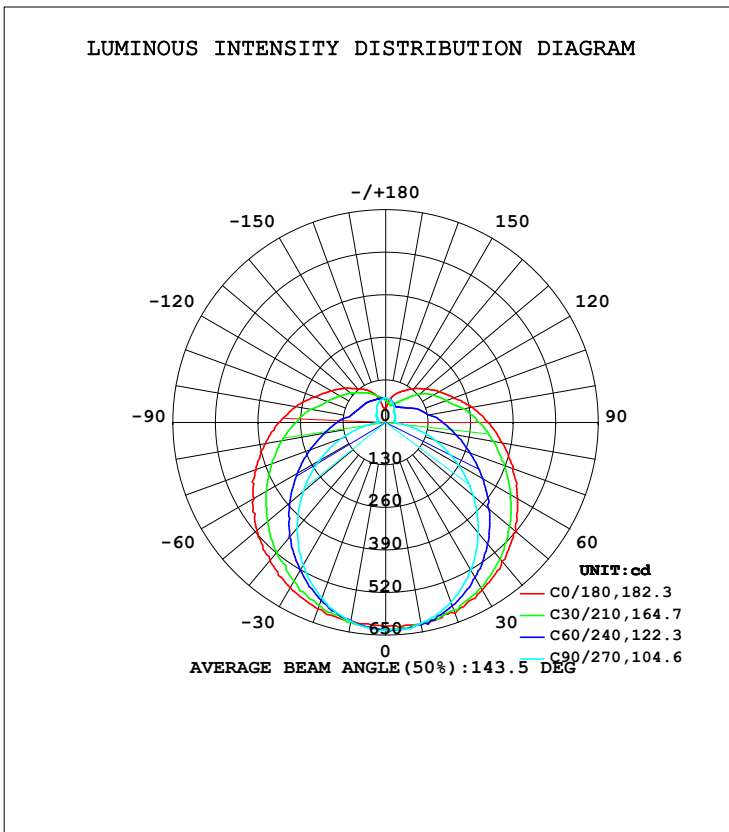


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.2780A P:33.20W PF:0.9900 Freq:60.00Hz Lamp Flux:3149.63x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 94.87 lm/W			
MODEL		I <sub>max</sub> (cd)	638.5	S/MH (C0/180)	1.42
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.19
RATED VOLTAGE (V)		TOTAL FLUX (lm)	3149.6	η UP, DN (C0-180)	12.1, 38.3
NOMINAL FLUX (lm)	3149.63	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	12.1, 37.5
LAMPS INSIDE	1	η up (%)	24.2	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	75.8	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-04-19

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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	627.2	625.6	624.1	622.8	616.0	617.4	616.8	622.8	0- 10	59.84	59.84	1.9,1.9
20	620.3	602.5	584.2	591.6	606.4	586.6	570.3	593.2	10- 20	172.3	232.1	7.37,7.37
30	590.6	564.8	520.5	544.1	582.9	541.3	504.4	546.8	20- 30	264.5	496.7	15.8,15.8
40	552.7	514.3	440.1	485.9	551.1	487.9	420.8	489.5	30- 40	327.4	824.1	26.2,26.2
50	522.9	452.9	349.7	418.5	513.7	427.3	329.5	424.2	40- 50	357.3	1181	37.5,37.5
60	465.2	391.7	254.4	354.4	463.2	366.6	235.7	358.0	50- 60	355.5	1537	48.8,48.8
70	413.7	330.3	162.3	291.0	421.2	308.7	144.7	292.1	60- 70	328.5	1865	59.2,59.2
80	362.2	276.5	80.50	235.3	372.9	255.7	64.99	240.9	70- 80	285.1	2150	68.3,68.3
90	313.4	230.2	29.52	189.8	325.8	212.0	23.17	198.8	80- 90	237.2	2388	75.8,75.8
100	269.0	188.5	25.43	150.7	279.6	171.6	23.68	161.6	90-100	195.9	2584	82,82
110	219.4	154.6	30.16	124.7	229.0	144.2	28.21	135.6	100-110	156.1	2740	87,87
120	188.8	128.2	32.53	110.5	193.2	126.2	33.11	112.2	110-120	125.1	2865	91,91
130	159.1	103.6	36.70	100.4	162.8	113.1	37.93	89.38	120-130	97.77	2963	94.1,94.1
140	135.6	78.94	40.63	91.89	135.1	101.1	43.20	73.31	130-140	72.68	3035	96.4,96.4
150	112.3	65.66	52.76	84.79	114.6	91.51	55.54	65.20	140-150	51.99	3087	98,98
160	93.47	61.35	63.51	78.17	89.74	82.79	64.41	65.05	150-160	35.41	3123	99.1,99.1
170	71.83	66.00	71.55	74.73	48.55	76.74	71.66	70.65	160-170	20.38	3143	99.8,99.8
180	41.87	71.83	75.94	73.52	41.93	71.86	75.96	73.57	170-180	6.588	3150	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1001 lm

%lum = 31.8%  
%lamp = 31.8%

Conical surface Flux(120deg): 1536.9 lm

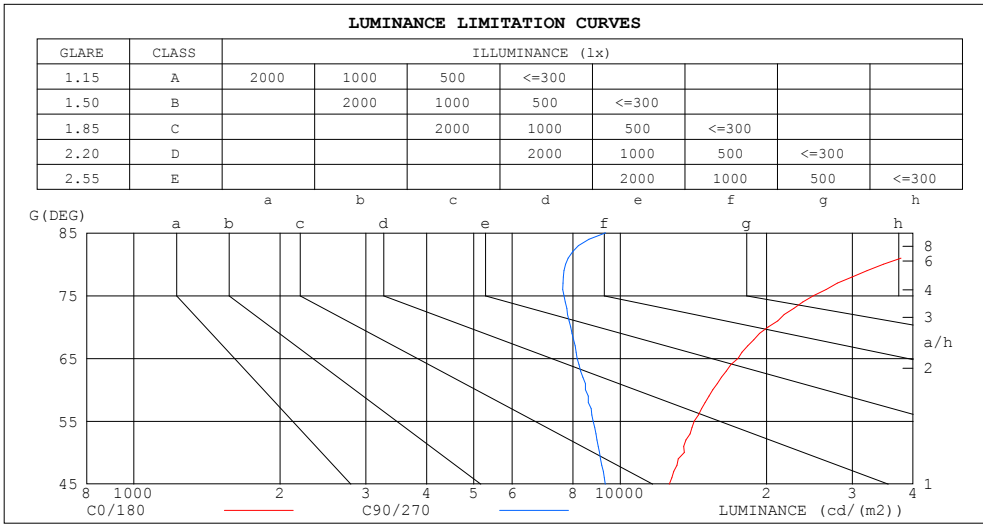
%lum = 48.8%  
%lamp = 48.8%

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-04-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.2780A P:33.20W PF:0.9900 Freq:60.00Hz Lamp Flux:3149.63x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.: 48寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	64610	9330
80	34767	7726
75	24980	7660
70	20157	7908
65	17476	8154
60	15506	8481
55	14209	8792
50	13557	9068
45	12620	9326

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-19

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:0.2780A P:33.20W PF:0.9900 Freq:60.00Hz Lamp Flux:3149.63x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48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	.383	.218	.069	.368	.210	.067	.341	.196	.062	.316	.182	.058	.293	.170	.055	
2.0	.330	.181	.055	.317	.175	.054	.292	.162	.050	.269	.151	.047	.248	.140	.044	
3.0	.293	.156	.047	.281	.150	.045	.258	.140	.043	.238	.130	.040	.218	.121	.037	
4.0	.263	.137	.040	.253	.132	.039	.232	.123	.037	.213	.114	.035	.195	.106	.032	
5.0	.239	.122	.035	.229	.118	.034	.211	.110	.032	.193	.102	.030	.177	.095	.028	
6.0	.219	.110	.031	.210	.106	.031	.193	.099	.029	.177	.092	.027	.162	.086	.025	
7.0	.202	.100	.028	.194	.097	.028	.178	.090	.026	.164	.084	.024	.150	.078	.023	
8.0	.188	.092	.026	.180	.089	.025	.166	.083	.024	.152	.077	.022	.139	.072	.021	
9.0	.175	.085	.024	.168	.082	.023	.155	.076	.022	.142	.071	.020	.130	.066	.019	
10.0	.164	.078	.022	.157	.076	.021	.145	.071	.020	.133	.066	.019	.122	.061	.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	.375	.375	.375	.320	.320	.320	.219	.219	.219	.126	.126	.126	.040	.040	.040	
1.0	.371	.341	.314	.318	.293	.271	.217	.202	.187	.125	.117	.109	.040	.038	.035	
2.0	.364	.319	.280	.312	.274	.242	.214	.190	.169	.123	.110	.099	.040	.036	.032	
3.0	.357	.303	.259	.306	.261	.225	.210	.181	.158	.121	.106	.093	.039	.034	.030	
4.0	.349	.290	.245	.300	.251	.213	.206	.175	.150	.119	.102	.089	.038	.033	.029	
5.0	.342	.281	.235	.293	.243	.205	.202	.170	.145	.117	.100	.086	.038	.032	.028	
6.0	.334	.273	.228	.287	.236	.199	.198	.165	.141	.115	.097	.084	.037	.032	.028	
7.0	.327	.266	.223	.282	.231	.195	.195	.162	.138	.113	.095	.082	.037	.031	.027	
8.0	.321	.261	.219	.276	.226	.191	.191	.159	.136	.111	.094	.081	.036	.031	.027	
9.0	.315	.256	.216	.271	.222	.189	.188	.156	.134	.109	.092	.080	.035	.030	.026	
10.0	.309	.252	.214	.266	.219	.187	.185	.154	.133	.108	.091	.079	.035	.030	.026	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-19

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:0.2780A P:33.20W PF:0.9900 Freq:60.00Hz Lamp Flux:3149.63x1 lm										
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 5000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: 革星					SUR.:48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	17.2	18.5	17.8	19.1	19.7	14.9	16.2	15.5	16.8	17.5
3H	19.9	21.1	20.5	21.7	22.4	16.5	17.7	17.1	18.3	19.0
4H	21.4	22.5	22.0	23.2	23.9	17.2	18.4	17.9	19.0	19.7
6H	23.1	24.1	23.7	24.8	25.6	17.8	18.9	18.5	19.5	20.3
8H	24.0	25.0	24.7	25.7	26.5	18.1	19.1	18.7	19.8	20.5
12H	25.1	26.1	25.7	26.7	27.5	18.3	19.3	19.0	20.0	20.7
4H 2H	17.8	18.9	18.4	19.5	20.3	16.1	17.3	16.8	17.9	18.7
3H	20.7	21.7	21.4	22.4	23.2	18.1	19.1	18.7	19.7	20.5
4H	22.4	23.3	23.1	24.0	24.9	19.0	19.9	19.7	20.6	21.4
6H	24.3	25.1	25.0	25.9	26.7	19.8	20.7	20.6	21.4	22.2
8H	25.4	26.1	26.1	26.9	27.7	20.2	21.0	20.9	21.7	22.6
12H	26.6	27.3	27.3	28.0	28.9	20.5	21.2	21.3	22.0	22.9
8H 4H	22.8	23.6	23.5	24.3	25.2	20.2	20.9	20.9	21.7	22.5
6H	25.0	25.7	25.8	26.4	27.3	21.4	22.1	22.2	22.8	23.8
8H	26.3	26.9	27.1	27.7	28.6	22.0	22.6	22.8	23.4	24.3
12H	27.8	28.3	28.6	29.1	30.0	22.6	23.1	23.4	23.9	24.9
12H 4H	22.9	23.6	23.6	24.3	25.2	20.5	21.2	21.3	22.0	22.9
6H	25.2	25.7	26.0	26.5	27.5	22.0	22.6	22.8	23.4	24.3
8H	26.6	27.1	27.4	27.9	28.8	22.9	23.4	23.6	24.2	25.1
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, 3150 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.0)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-19

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:0.2780A P:33.20W PF:0.9900 Freq:60.00Hz Lamp Flux:3149.63x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

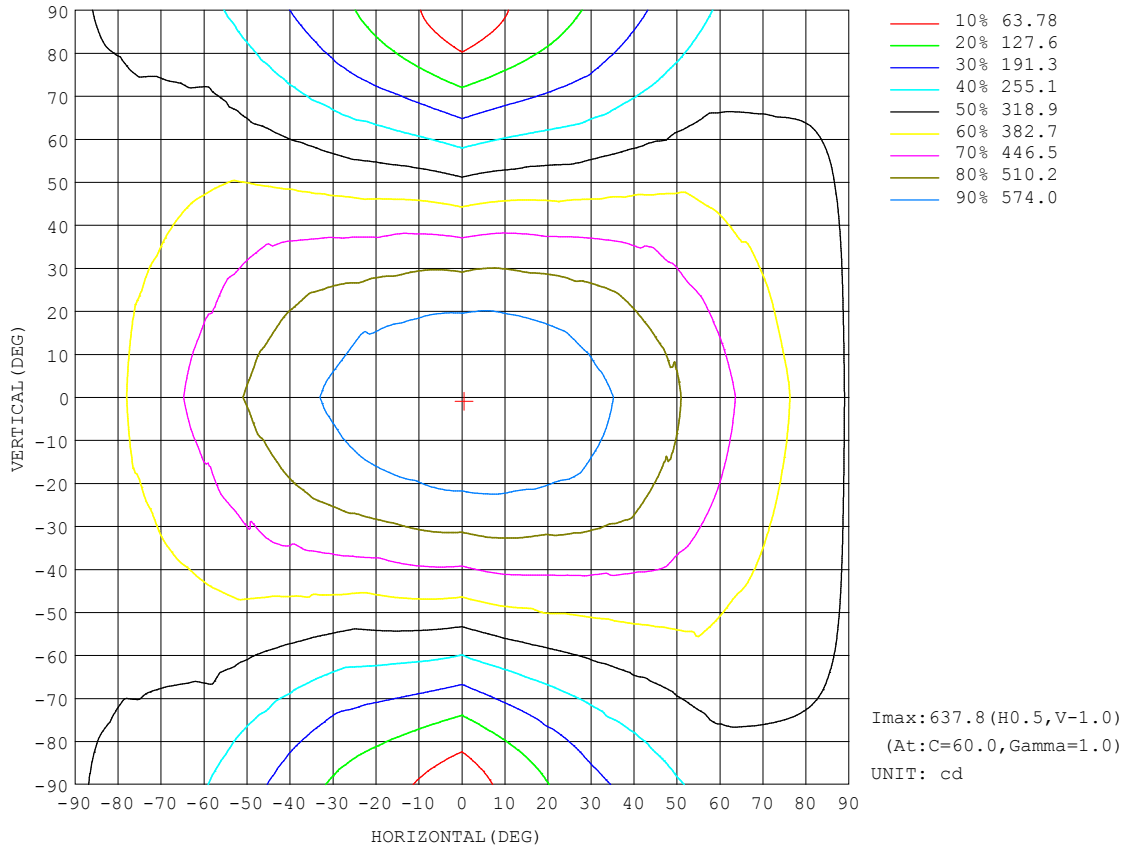
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	34	27	45	33	26	43	32	26	19
0.80	55	42	34	53	41	34	50	40	33	24
1.00	63	50	41	61	49	41	56	48	39	30
1.25	70	57	48	67	55	47	62	52	45	35
1.50	75	62	54	72	61	53	66	57	50	39
2.00	82	71	62	79	68	61	72	64	57	44
2.50	87	76	68	83	73	66	76	68	62	48
3.00	90	81	73	86	78	71	79	72	66	51
4.00	95	87	80	91	83	77	82	77	72	56
5.00	98	91	85	93	87	82	85	80	76	58
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:2024-04-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.2780A P:33.20W PF:0.9900 Freq:60.00Hz Lamp Flux:3149.63x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

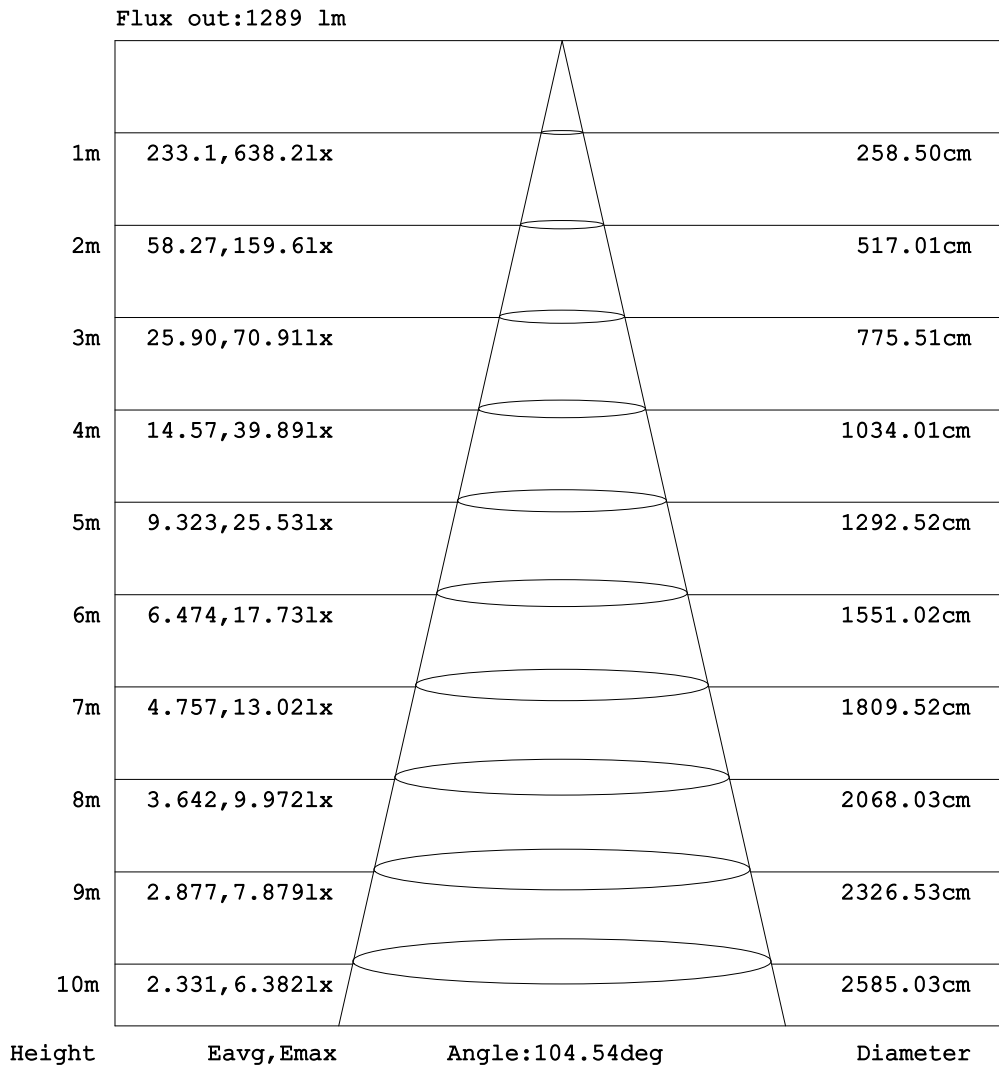


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-19

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:0.2780A P:33.20W PF:0.9900 Freq:60.00Hz Lamp Flux:3149.63x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:



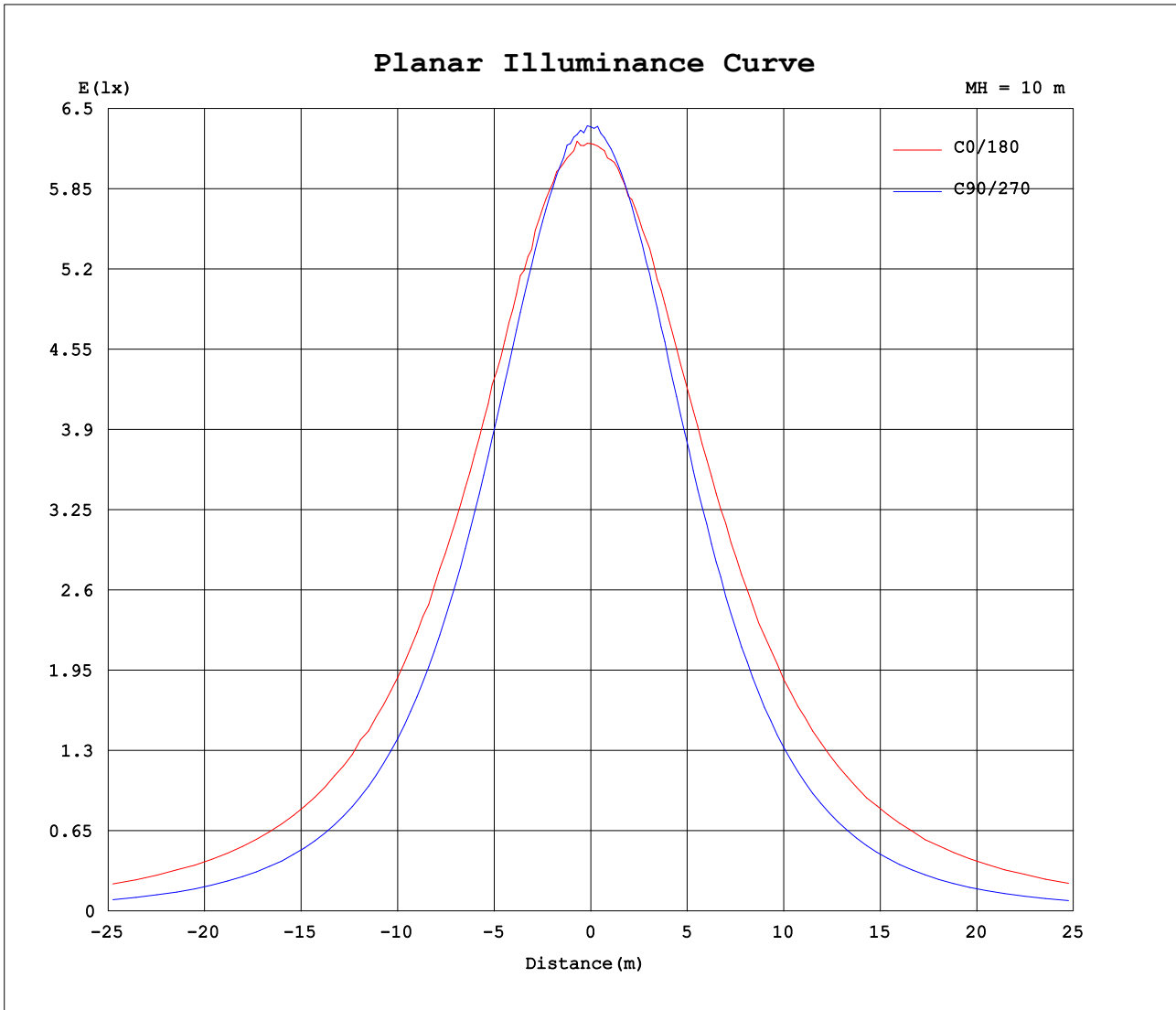
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-19

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:2024-04-19

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:0.2780A P:33.20W PF:0.9900 Freq:60.00Hz Lamp Flux:3149.63x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	622	631	635	635	636	633	622	631	635	635	636	633							
5	623	631	634	634	632	630	617	627	628	629	632	632							
10	627	624	628	624	622	623	616	620	615	617	622	624							
15	622	622	613	608	606	613	612	608	599	599	610	614							
20	620	609	596	584	585	598	606	595	578	570	584	602							
25	602	597	573	555	558	582	594	578	554	539	558	586							
30	591	582	547	521	526	562	583	560	522	504	528	566							
35	575	564	518	482	493	540	571	533	490	464	494	546							
40	553	544	485	440	457	515	551	518	458	421	457	522							
45	535	520	450	396	419	492	531	498	416	375	419	496							
50	523	494	411	350	379	458	514	471	383	329	379	469							
55	489	467	378	303	339	433	488	447	347	283	341	439							
60	465	441	342	254	301	408	463	421	312	236	303	413							
65	443	414	308	207	263	383	445	396	279	189	267	386							
70	414	385	275	162	226	356	421	371	246	145	231	353							
75	388	359	245	119	194	329	399	346	216	102	201	331							
80	362	335	218	80.5	165	305	373	322	190	65.0	174	307							
85	338	311	195	48.8	140	282	351	299	168	36.1	153	284							
90	313	286	174	29.5	120	260	326	275	149	23.2	135	262							
95	291	265	158	25.7	106	239	301	255	133	22.3	121	242							
100	269	243	134	25.4	87.3	214	280	232	111	23.7	104	219							
105	243	214	122	28.0	80.6	187	254	205	105	25.9	96.4	196							
110	219	197	112	30.2	76.6	173	229	190	98.6	28.2	89.7	181							
115	205	183	101	31.0	74.0	160	211	175	94.0	30.5	80.6	166							
120	189	168	88.5	32.5	72.8	148	193	162	90.1	33.1	73.4	151							
125	174	154	78.9	34.7	72.8	138	177	151	87.9	35.6	67.3	134							
130	159	136	71.5	36.7	72.6	128	163	140	86.3	37.9	63.0	116							
135	148	115	66.0	38.6	72.6	120	147	129	84.8	40.3	60.1	101							
140	136	95.5	62.3	40.6	71.6	112	135	120	82.6	43.2	57.8	88.8							
145	123	81.3	58.7	46.1	70.9	105	125	112	80.6	49.2	58.1	78.1							
150	112	72.2	59.1	52.8	70.9	98.7	115	104	78.6	55.5	61.8	68.6							
155	103	65.0	61.6	58.5	71.6	91.4	102	96.7	77.2	60.2	65.2	62.4							
160	93.5	57.6	65.1	63.5	71.8	84.5	89.7	89.2	76.4	64.4	68.3	61.8							
165	82.2	54.3	68.8	67.9	72.3	80.2	71.3	82.2	75.9	68.2	70.8	65.5							
170	71.8	60.0	72.0	71.5	72.9	76.6	48.6	77.9	75.5	71.7	72.6	68.6							
175	51.6	64.3	73.6	74.1	73.4	73.7	43.7	74.0	74.4	74.6	74.2	70.3							
180	41.9	69.1	74.6	75.9	74.9	72.1	41.9	69.1	74.6	76.0	75.1	72.1							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-19

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: