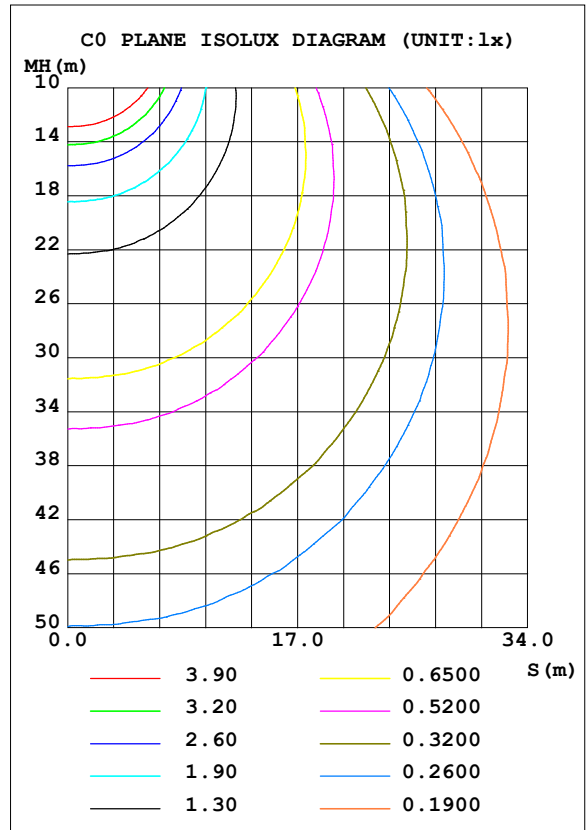
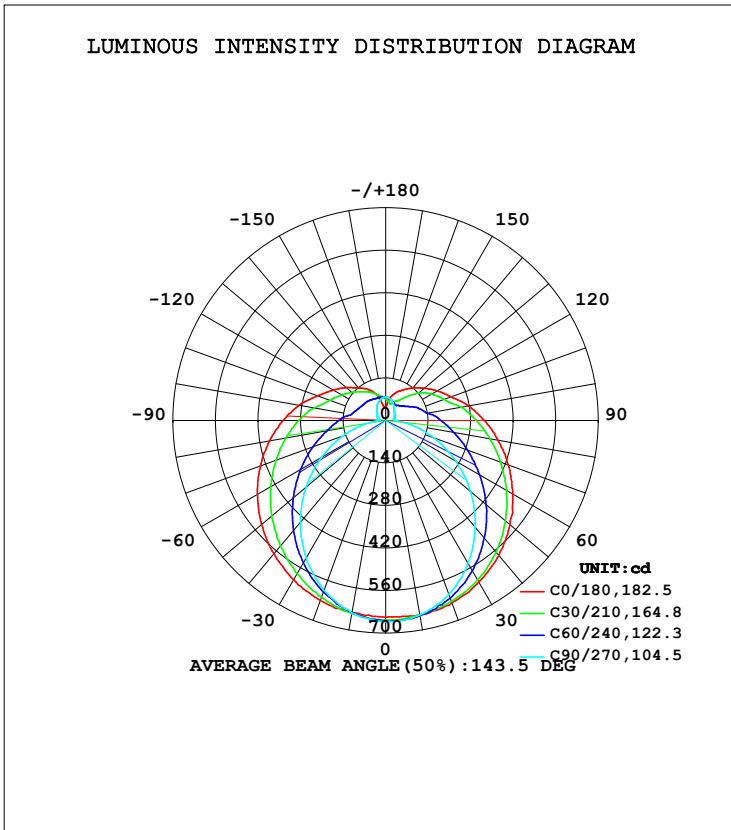


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.2700A P:32.20W PF:0.9890 Freq:60.00Hz Lamp Flux:3273.14x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.65 lm/W			
MODEL		I <sub>max</sub> (cd)	662.7	S/MH (C0/180)	1.40
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.18
RATED VOLTAGE (V)		TOTAL FLUX (lm)	3273.1	η UP, DN (C0-180)	12.1, 38.4
NOMINAL FLUX (lm)	3273.14	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	12.1, 37.4
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	650.1	651.4	649.2	649.3	641.5	643.8	644.5	648.9	0- 10	62.29	62.29	1.9,1.9
20	639.2	627.6	608.6	617.2	630.3	609.8	595.1	616.7	10- 20	179.3	241.6	7.38,7.38
30	613.2	588.2	542.1	567.9	605.9	562.6	524.1	568.2	20- 30	275.2	516.8	15.8,15.8
40	580.0	535.4	458.0	507.3	572.7	506.3	436.5	508.2	30- 40	340.6	857.3	26.2,26.2
50	534.3	472.8	364.1	439.2	533.6	443.5	342.0	440.6	40- 50	371.6	1229	37.5,37.5
60	482.6	408.4	267.4	370.3	488.0	380.6	245.6	371.3	50- 60	369.7	1599	48.8,48.8
70	429.3	344.6	168.7	303.7	438.1	319.8	150.1	306.0	60- 70	341.4	1940	59.3,59.3
80	376.0	287.9	83.65	245.1	388.4	265.1	67.51	248.9	70- 80	296.1	2236	68.3,68.3
90	324.7	240.5	30.68	198.0	338.4	220.3	24.04	205.6	80- 90	246.3	2482	75.8,75.8
100	277.8	196.3	26.53	156.7	290.2	177.7	24.58	166.7	90-100	203.4	2686	82.1,82.1
110	229.9	160.8	31.48	129.9	239.3	149.3	29.23	140.1	100-110	161.9	2848	87,87
120	195.7	133.5	34.08	114.7	200.4	130.9	34.32	115.9	110-120	129.9	2978	91,91
130	166.1	107.7	38.22	104.6	169.1	117.1	39.35	92.84	120-130	101.4	3079	94.1,94.1
140	140.0	81.96	42.35	95.64	140.2	105.4	44.82	76.04	130-140	75.43	3154	96.4,96.4
150	116.3	68.15	54.82	88.09	118.9	94.87	57.53	67.58	140-150	53.96	3208	98,98
160	96.98	63.60	65.99	81.25	92.97	85.78	66.82	67.46	150-160	36.76	3245	99.1,99.1
170	74.29	68.38	74.35	77.59	50.33	79.43	74.33	73.23	160-170	21.15	3266	99.8,99.8
180	43.39	74.52	78.84	76.35	43.48	74.47	78.83	76.24	170-180	6.833	3273	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1041.4 lm

%lum = 31.8%  
%lamp = 31.8%

Conical surface Flux(120deg): 1598.6 lm

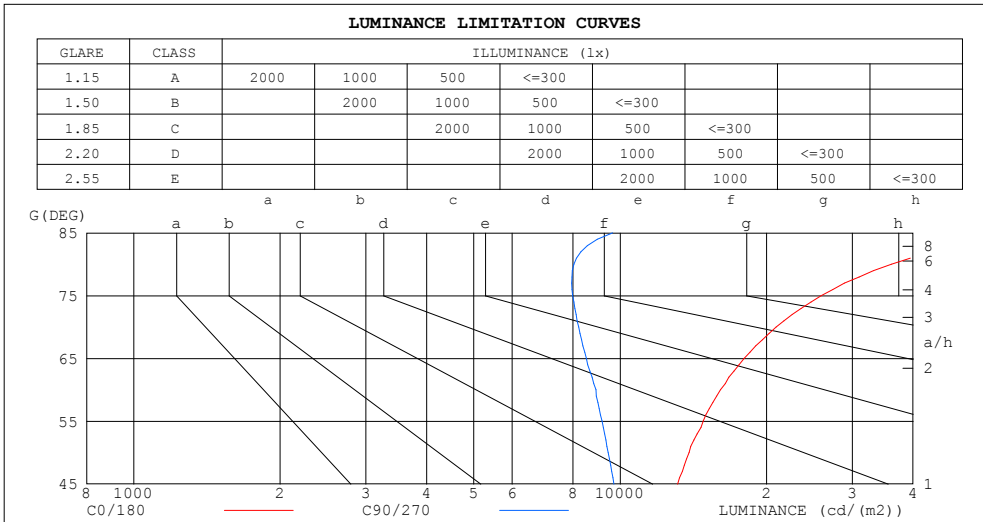
%lum = 48.8%  
%lamp = 48.8%

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:0.2700A P:32.20W PF:0.9890 Freq:60.00Hz Lamp Flux:3273.14x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.: 48寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	66916	9655
80	36086	8028
75	25931	7985
70	20922	8220
65	17987	8522
60	16088	8915
55	14806	9178
50	13854	9442
45	13123	9715

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:0.2700A P:32.20W PF:0.9890 Freq:60.00Hz Lamp Flux:3273.14x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 4000K	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	.194	.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	.218	.218	.218	.126	.126	.126	.040	.040	.040	
1.0	.371	.341	.314	.317	.293	.270	.217	.201	.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	.302	.259	.306	.261	.224	.210	.181	.157	.121	.106	.093	.039	.034	.030	
4.0	.349	.290	.245	.299	.251	.213	.206	.175	.150	.119	.102	.089	.038	.033	.029	
5.0	.341	.280	.235	.293	.242	.205	.202	.169	.144	.117	.099	.086	.038	.032	.028	
6.0	.334	.272	.228	.287	.236	.199	.198	.165	.141	.115	.097	.084	.037	.032	.028	
7.0	.327	.266	.223	.281	.230	.194	.194	.162	.138	.113	.095	.082	.036	.031	.027	
8.0	.320	.260	.219	.276	.226	.191	.191	.159	.136	.111	.094	.081	.036	.031	.027	
9.0	.314	.256	.216	.271	.222	.189	.188	.156	.134	.109	.092	.080	.035	.030	.026	
10.0	.309	.252	.214	.266	.218	.187	.184	.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:0.2700A P:32.20W PF:0.9890 Freq:60.00Hz Lamp Flux:3273.14x1 lm										
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 4000K					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	19.1
4H	21.4	22.5	22.0	23.2	23.9	17.2	18.4	17.9	19.0	19.8
6H	23.1	24.1	23.7	24.8	25.5	17.8	18.9	18.5	19.6	20.3
8H	24.0	25.0	24.7	25.7	26.5	18.1	19.1	18.8	19.8	20.6
12H	25.1	26.1	25.7	26.7	27.5	18.3	19.3	19.0	20.0	20.8
4H 2H	17.8	18.9	18.4	19.5	20.3	16.2	17.3	16.8	17.9	18.7
3H	20.7	21.7	21.4	22.4	23.2	18.1	19.1	18.8	19.8	20.5
4H	22.4	23.3	23.1	24.0	24.9	19.0	19.9	19.7	20.6	21.5
6H	24.3	25.1	25.0	25.9	26.7	19.9	20.7	20.6	21.4	22.3
8H	25.4	26.1	26.1	26.9	27.7	20.2	21.0	21.0	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	23.6	24.3	25.2	20.2	20.9	20.9	21.7	22.6
6H	25.0	25.7	25.8	26.4	27.4	21.5	22.1	22.2	22.9	23.8
8H	26.3	26.9	27.1	27.7	28.6	22.1	22.6	22.8	23.4	24.4
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	20.6	21.3	21.3	22.0	22.9
6H	25.2	25.8	26.0	26.5	27.5	22.1	22.6	22.8	23.4	24.3
8H	26.6	27.1	27.4	27.9	28.8	22.9	23.4	23.7	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, 3273 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.1)

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:

**UTILIZATION FACTORS TABLE**

Test:U:120.5V I:0.2700A P:32.20W PF:0.9890 Freq:60.00Hz Lamp Flux:3273.14x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

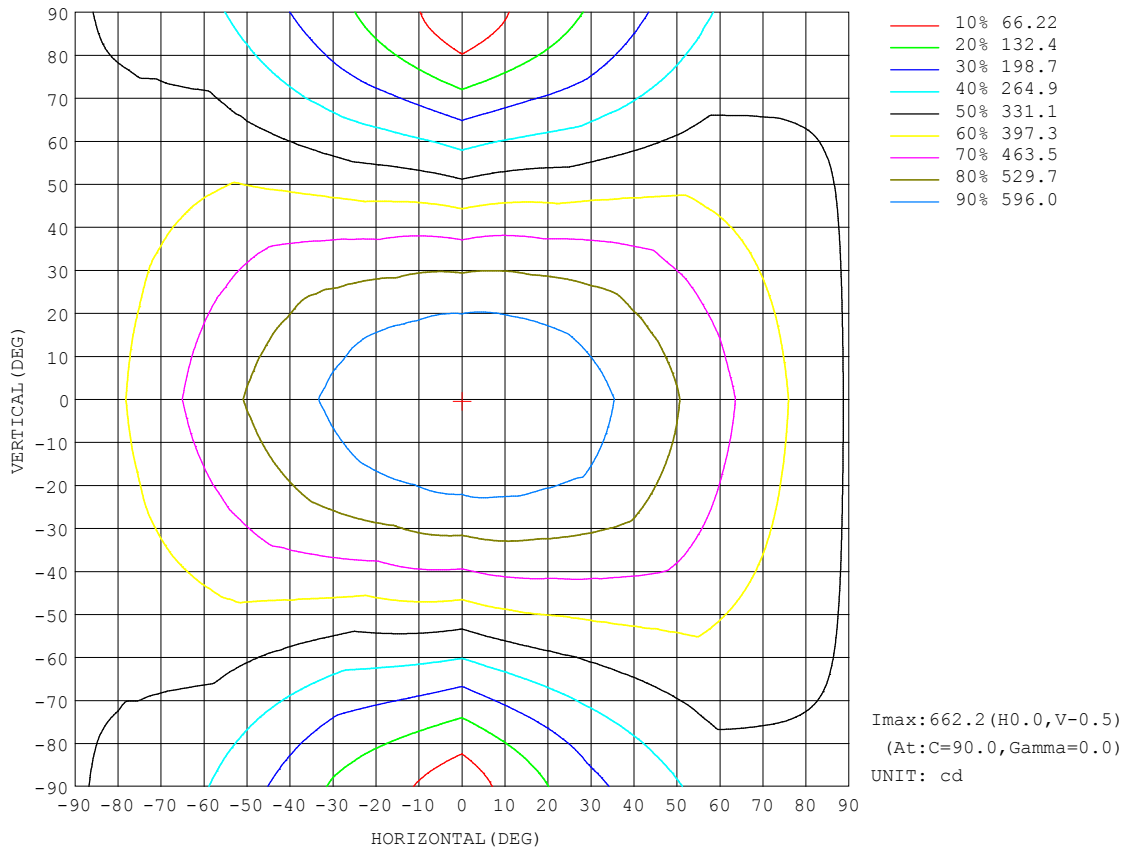
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	34	27	45	33	26	43	32	26	19
0.80	55	42	34	53	41	34	50	40	33	24
1.00	63	50	41	61	49	41	57	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	83	77	72	56
5.00	98	91	85	94	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:0.2700A P:32.20W PF:0.9890 Freq:60.00Hz Lamp Flux:3273.14x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

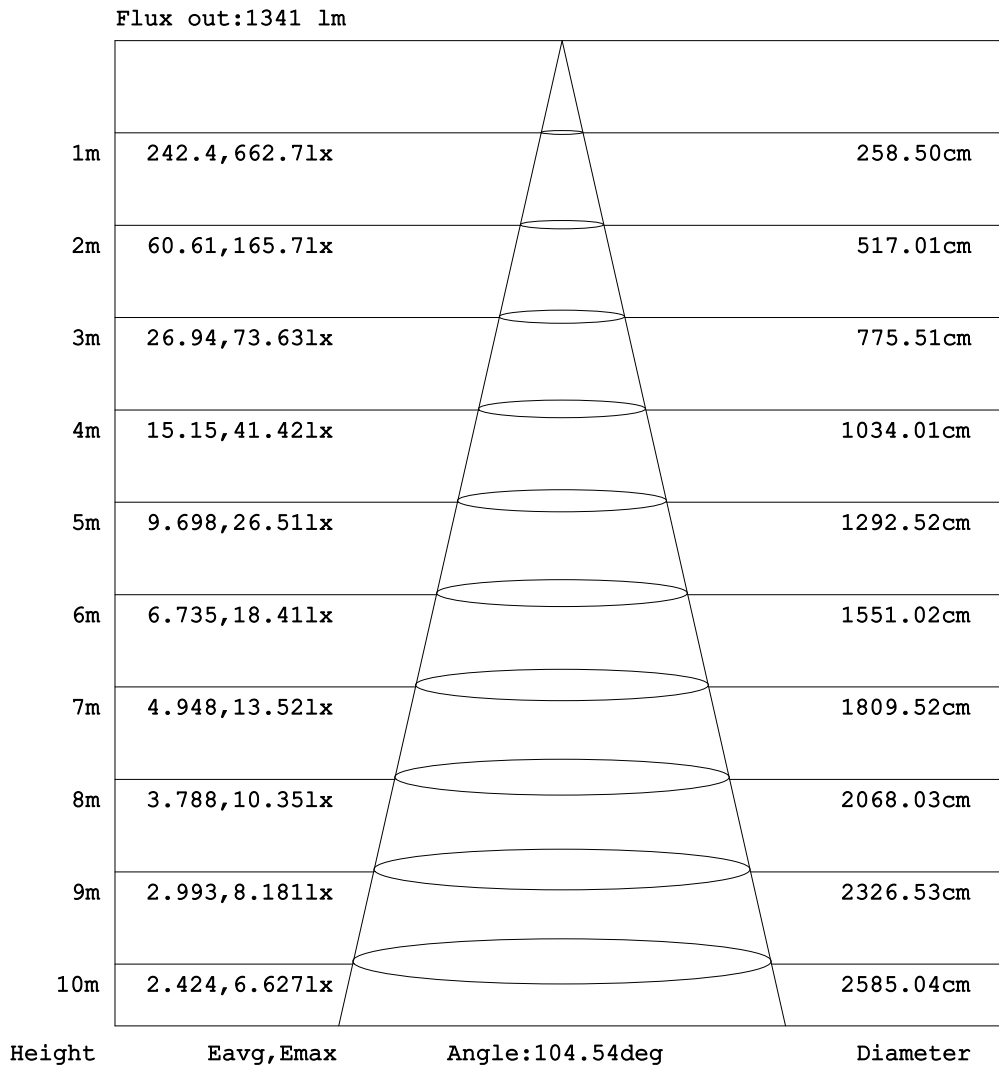


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-04-19

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:0.2700A P:32.20W PF:0.9890 Freq:60.00Hz Lamp Flux:3273.14x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:



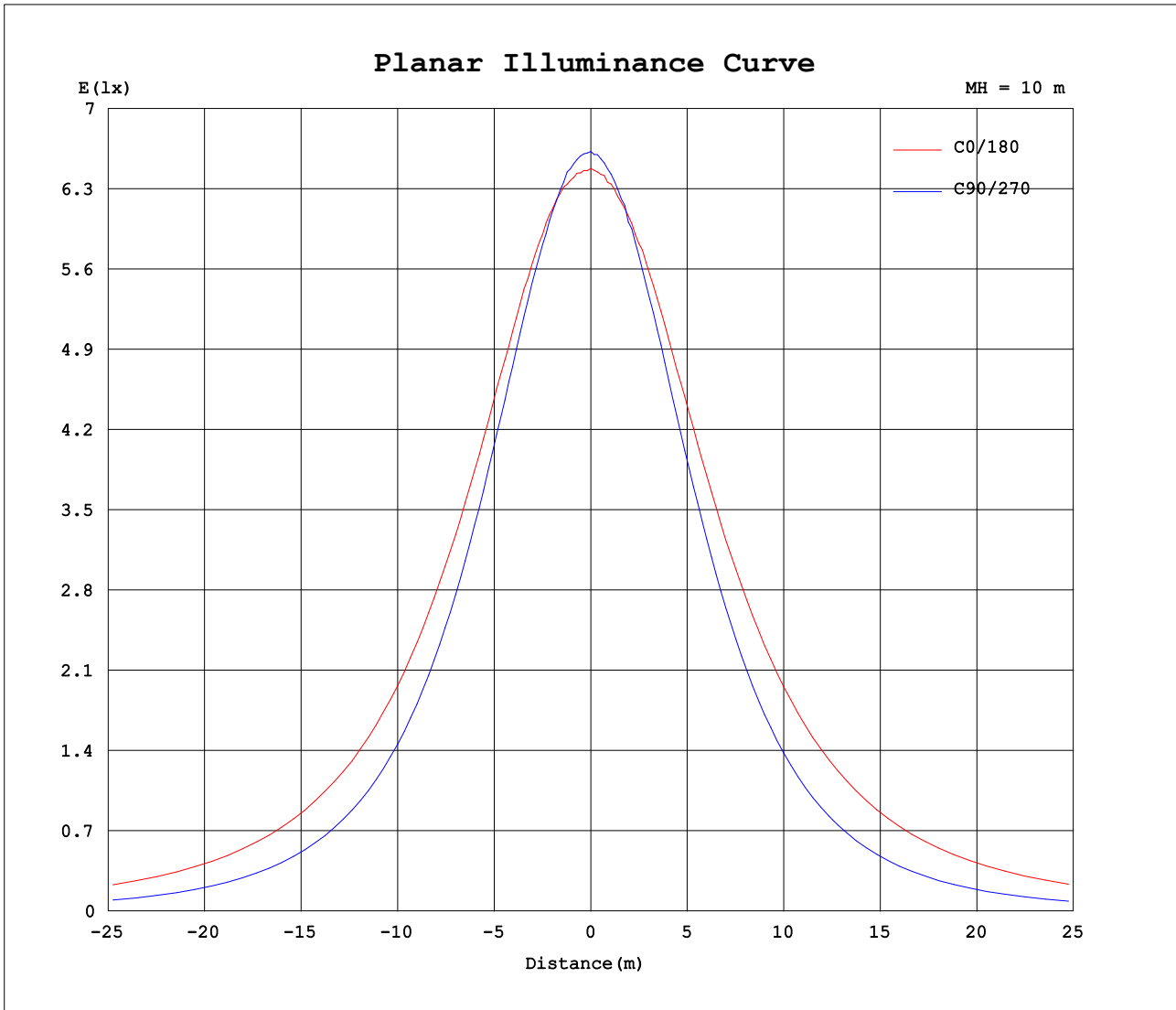
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

$\gamma$  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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.2700A P:32.20W PF:0.9890 Freq:60.00Hz Lamp Flux:3273.14x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 4000K	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	648	657	660	663	662	660	648	657	660	663	662	660							
5	648	656	660	660	657	657	643	654	654	655	658	662							
10	650	651	651	649	649	650	642	646	641	644	648	650							
15	647	643	642	633	630	639	640	634	625	621	631	639							
20	639	633	622	609	610	624	630	619	601	595	608	625							
25	629	622	598	578	583	606	619	602	573	561	579	610							
30	613	606	571	542	550	585	606	583	542	524	546	591							
35	597	587	540	503	515	562	589	562	509	481	512	568							
40	580	565	505	458	477	537	573	540	473	436	473	543							
45	557	542	469	412	437	511	554	514	436	390	434	516							
50	534	515	431	364	395	483	534	489	398	342	394	487							
55	510	488	394	316	354	455	511	462	360	293	354	456							
60	483	460	357	267	313	427	488	438	324	246	314	429							
65	456	429	321	216	274	399	464	410	288	197	276	399							
70	429	402	287	169	237	371	438	384	255	150	241	371							
75	403	375	256	124	202	344	415	360	223	106	207	344							
80	376	348	228	83.6	172	319	388	334	196	67.5	180	318							
85	350	323	204	50.5	146	294	364	310	174	37.4	157	294							
90	325	299	182	30.7	125	270	338	286	154	24.0	140	272							
95	301	276	166	26.7	110	248	313	265	138	23.0	125	251							
100	278	253	139	26.5	90.6	223	290	240	115	24.6	107	227							
105	252	223	127	29.3	83.6	195	264	213	108	26.9	99.2	203							
110	230	205	117	31.5	79.5	180	239	196	102	29.2	92.4	188							
115	212	189	105	32.3	76.9	167	218	181	97.4	31.6	83.2	171							
120	196	175	92.0	34.1	75.6	154	200	168	93.6	34.3	75.7	156							
125	180	160	81.7	36.1	75.6	144	184	156	91.1	37.0	69.6	139							
130	166	141	74.4	38.2	75.7	134	169	145	89.4	39.4	65.2	120							
135	153	119	68.7	40.2	75.4	124	153	134	87.9	41.6	62.2	105							
140	140	99.0	64.9	42.3	74.4	117	140	125	85.8	44.8	59.9	92.2							
145	128	84.4	61.0	48.0	73.7	110	129	116	83.6	50.9	60.3	80.8							
150	116	75.0	61.3	54.8	73.8	102	119	108	81.6	57.5	63.9	71.2							
155	107	67.7	63.9	60.8	74.3	94.9	106	100	80.0	62.4	67.9	64.8							
160	97.0	59.7	67.5	66.0	74.6	87.9	93.0	92.3	79.2	66.8	70.9	64.1							
165	85.1	56.4	71.5	70.5	74.8	82.7	74.0	85.5	78.6	70.7	73.3	67.9							
170	74.3	62.1	74.7	74.4	75.6	79.6	50.3	80.8	78.1	74.3	75.2	71.2							
175	53.5	66.8	76.4	76.9	76.2	76.7	45.2	76.7	77.1	77.4	76.8	73.0							
180	43.4	71.7	77.4	78.8	77.8	74.9	43.5	71.7	77.3	78.8	77.6	74.8							

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: