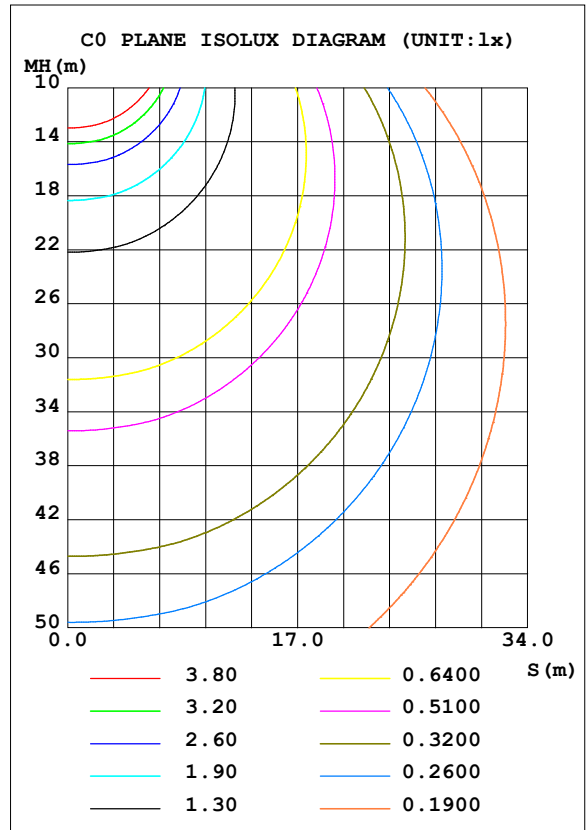
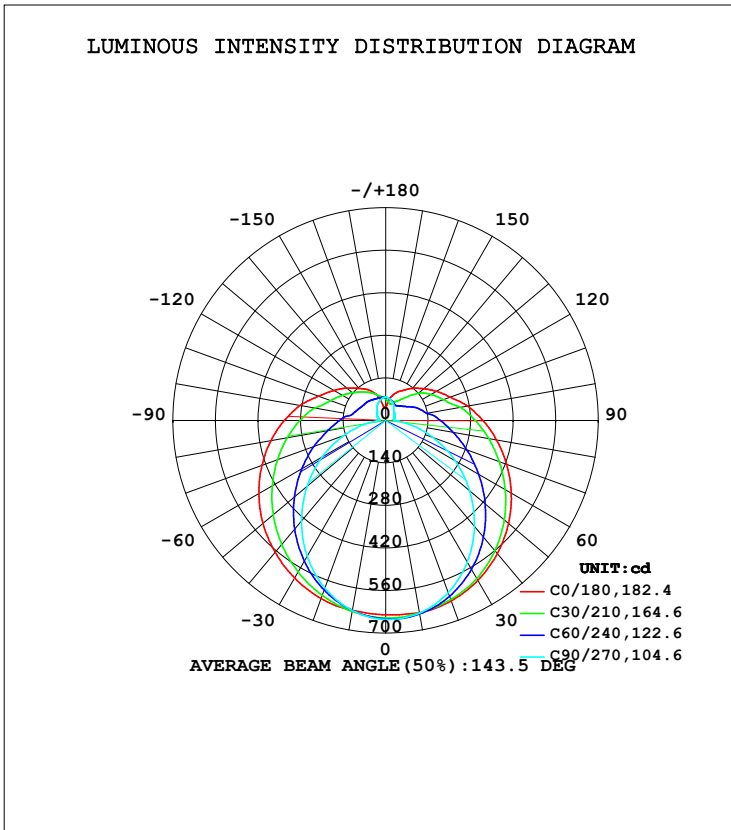


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.2630A P:31.40W PF:0.9890 Freq:60.00Hz Lamp Flux:3236.71x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 103.08 lm/W			
MODEL		I <sub>max</sub> (cd)	654.9	S/MH (C0/180)	1.41
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.18
RATED VOLTAGE (V)		TOTAL FLUX (lm)	3236.7	η UP, DN (C0-180)	12.1, 38.4
NOMINAL FLUX (lm)	3236.71	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	12.1, 37.4
LAMPS INSIDE	1	η up (%)	24.1	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	75.9	CIBSE SHR MAX	1.55



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

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	642.5	644.8	643.6	642.7	634.6	636.3	635.0	641.9	0- 10	61.63	61.63	1.9,1.9
20	632.0	621.4	602.9	611.0	623.5	603.0	586.9	609.9	10- 20	177.4	239.0	7.39,7.39
30	607.4	582.8	537.6	562.4	599.1	555.9	516.8	562.9	20- 30	272.3	511.4	15.8,15.8
40	571.9	530.2	454.5	502.1	566.5	499.3	431.4	503.0	30- 40	337.0	848.3	26.2,26.2
50	527.7	468.6	361.1	435.2	527.2	437.9	337.8	435.8	40- 50	367.5	1216	37.6,37.6
60	477.4	403.8	264.0	366.8	482.1	375.3	241.6	367.1	50- 60	365.8	1582	48.9,48.9
70	424.0	341.3	167.0	301.2	433.6	315.5	148.3	302.2	60- 70	337.7	1919	59.3,59.3
80	370.9	284.8	82.74	243.1	383.6	261.4	66.75	246.2	70- 80	292.8	2212	68.3,68.3
90	320.3	238.0	30.35	196.6	333.7	217.3	23.72	203.2	80- 90	243.5	2456	75.9,75.9
100	273.9	193.8	26.25	155.8	286.2	175.1	24.23	164.9	90-100	201.0	2657	82.1,82.1
110	226.2	159.0	31.14	128.7	235.2	147.2	28.81	138.4	100-110	159.9	2817	87,87
120	192.9	131.8	33.63	113.9	197.8	129.1	33.85	114.5	110-120	128.2	2945	91,91
130	163.5	106.4	37.78	103.6	166.8	115.5	38.83	91.45	120-130	100.2	3045	94.1,94.1
140	138.2	80.93	41.86	94.61	138.5	104.1	44.21	75.11	130-140	74.51	3119	96.4,96.4
150	114.9	67.33	54.27	87.25	117.5	93.68	56.72	66.67	140-150	53.31	3173	98,98
160	95.85	62.83	65.22	80.48	91.88	84.69	65.89	66.55	150-160	36.32	3209	99.1,99.1
170	73.18	67.55	73.46	76.77	49.63	78.47	73.37	72.37	160-170	20.89	3230	99.8,99.8
180	42.86	73.55	77.81	75.48	42.83	73.55	77.86	75.47	170-180	6.749	3237	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1030.4 lm

%lum = 31.8%  
%lamp = 31.8%

Conical surface Flux(120deg): 1581.6 lm

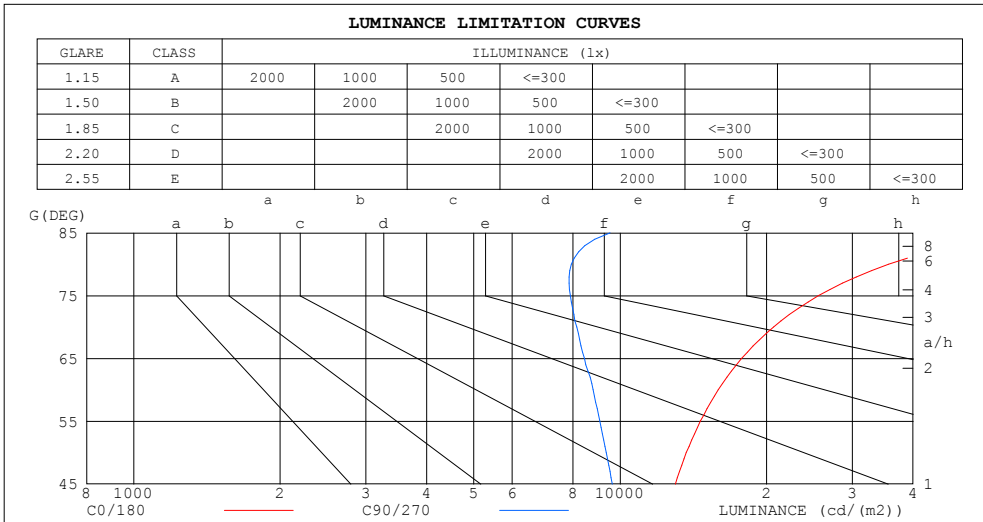
%lum = 48.9%  
%lamp = 48.9%

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:0.2630A P:31.40W PF:0.9890 Freq:60.00Hz Lamp Flux:3236.71x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.: 48寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	65990	9533
80	35598	7941
75	25580	7898
70	20663	8139
65	17779	8439
60	15913	8801
55	14624	9085
50	13682	9363
45	12982	9631

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:0.2630A P:31.40W PF:0.9890 Freq:60.00Hz Lamp Flux:3236.71x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 3500K	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	.196	.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	.374	.374	.374	.320	.320	.320	.218	.218	.218	.125	.125	.125	.040	.040	.040	
1.0	.371	.341	.314	.317	.293	.270	.217	.201	.187	.125	.116	.109	.040	.037	.035	
2.0	.364	.318	.280	.312	.274	.242	.214	.190	.169	.123	.110	.099	.040	.036	.032	
3.0	.356	.302	.259	.306	.261	.224	.210	.181	.157	.121	.106	.093	.039	.034	.030	
4.0	.349	.290	.245	.299	.250	.213	.206	.174	.150	.119	.102	.089	.038	.033	.029	
5.0	.341	.280	.235	.293	.242	.204	.202	.169	.144	.117	.099	.086	.038	.032	.028	
6.0	.334	.272	.228	.287	.236	.199	.198	.165	.140	.115	.097	.084	.037	.032	.028	
7.0	.327	.266	.223	.281	.230	.194	.194	.161	.138	.113	.095	.082	.036	.031	.027	
8.0	.320	.260	.219	.276	.226	.191	.191	.158	.135	.111	.093	.081	.036	.031	.027	
9.0	.314	.256	.216	.271	.222	.188	.187	.156	.134	.109	.092	.080	.035	.030	.026	
10.0	.308	.251	.214	.266	.218	.186	.184	.154	.132	.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:0.2630A P:31.40W PF:0.9890 Freq:60.00Hz Lamp Flux:3236.71x1 lm										
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 3500K					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	19.8	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	17.2	18.4	19.1
4H	21.4	22.5	22.0	23.2	23.9	17.3	18.4	17.9	19.0	19.8
6H	23.1	24.1	23.7	24.8	25.5	17.9	18.9	18.5	19.6	20.3
8H	24.0	25.0	24.6	25.7	26.5	18.1	19.1	18.8	19.8	20.6
12H	25.1	26.0	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	18.0	18.7
3H	20.7	21.7	21.4	22.4	23.2	18.1	19.1	18.8	19.8	20.6
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	21.0	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	22.7	22.9	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	24.4
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, 3237 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:0.2630A P:31.40W PF:0.9890 Freq:60.00Hz Lamp Flux:3236.71x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

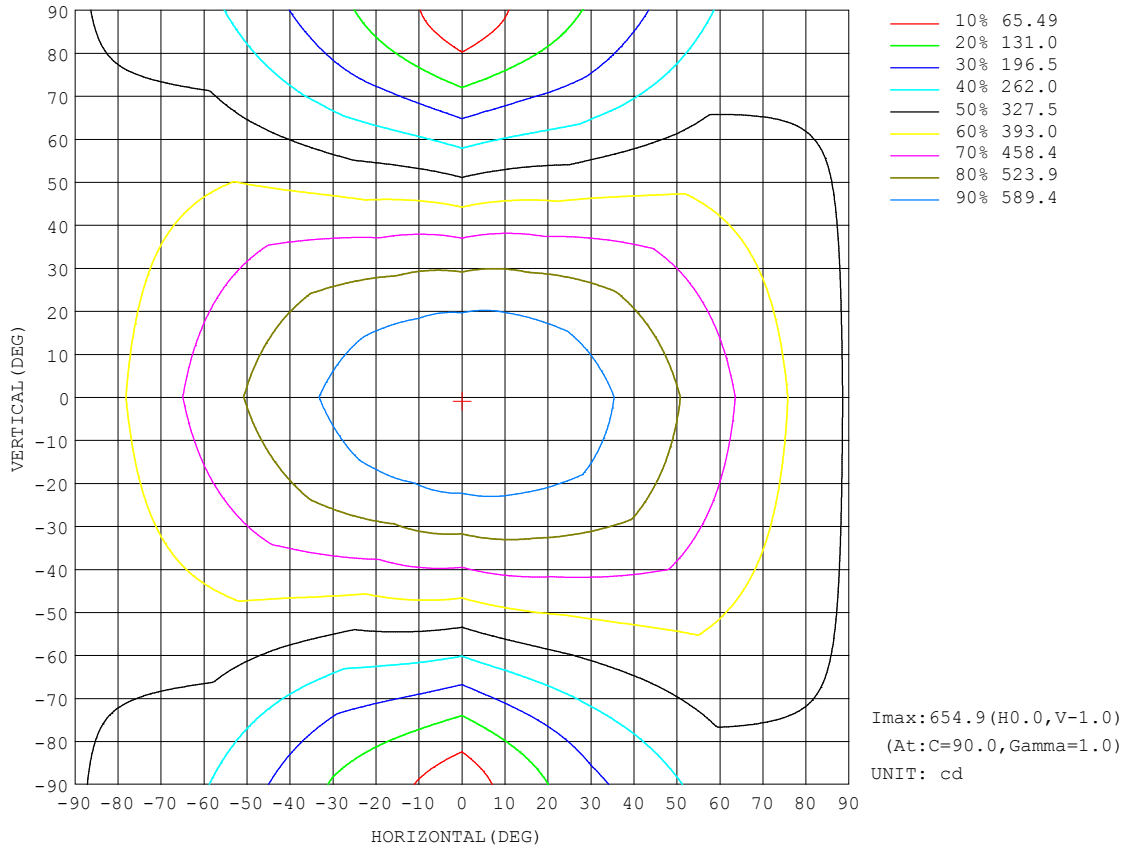
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	34	27	45	33	26	43	32	26	19
0.80	55	42	34	53	41	34	50	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	59
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:0.2630A P:31.40W PF:0.9890 Freq:60.00Hz Lamp Flux:3236.71x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

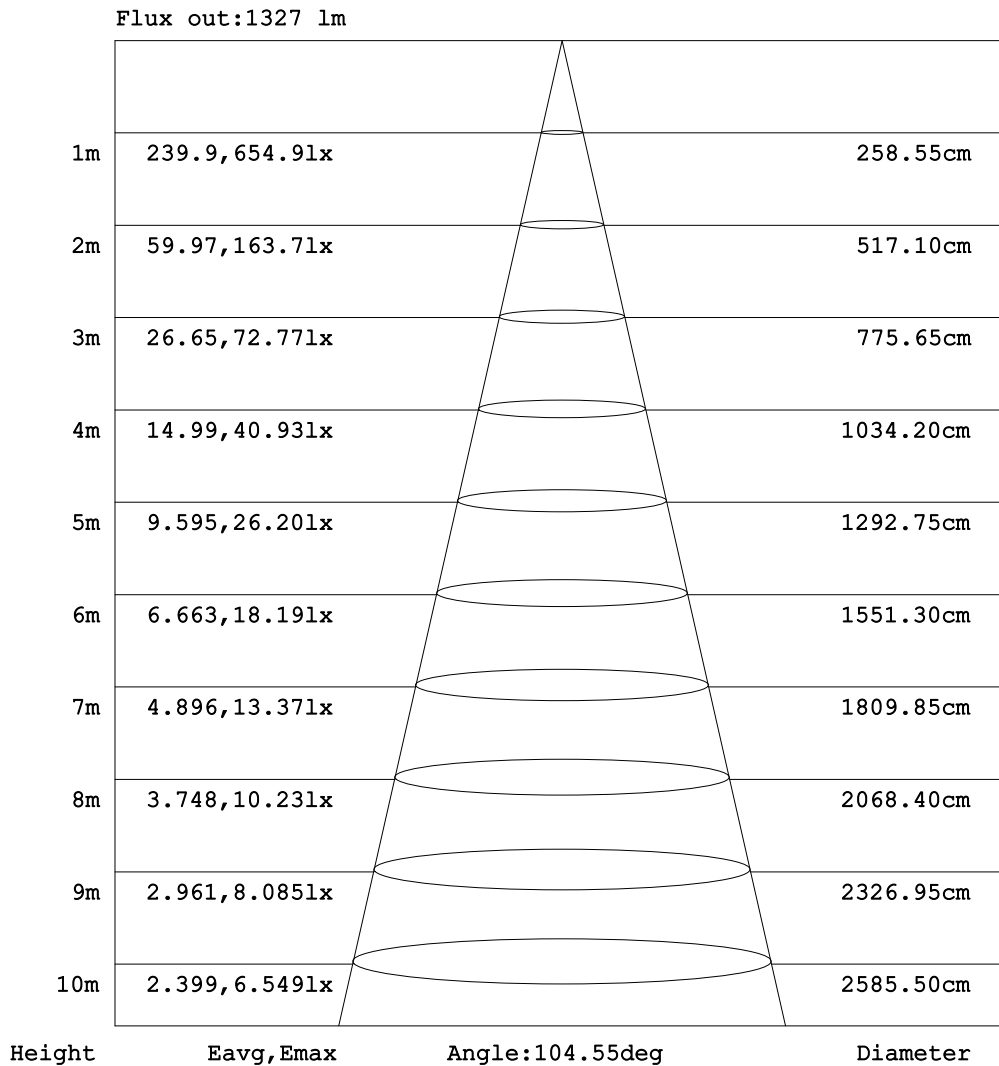


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-04-19

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:0.2630A P:31.40W PF:0.9890 Freq:60.00Hz Lamp Flux:3236.71x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:



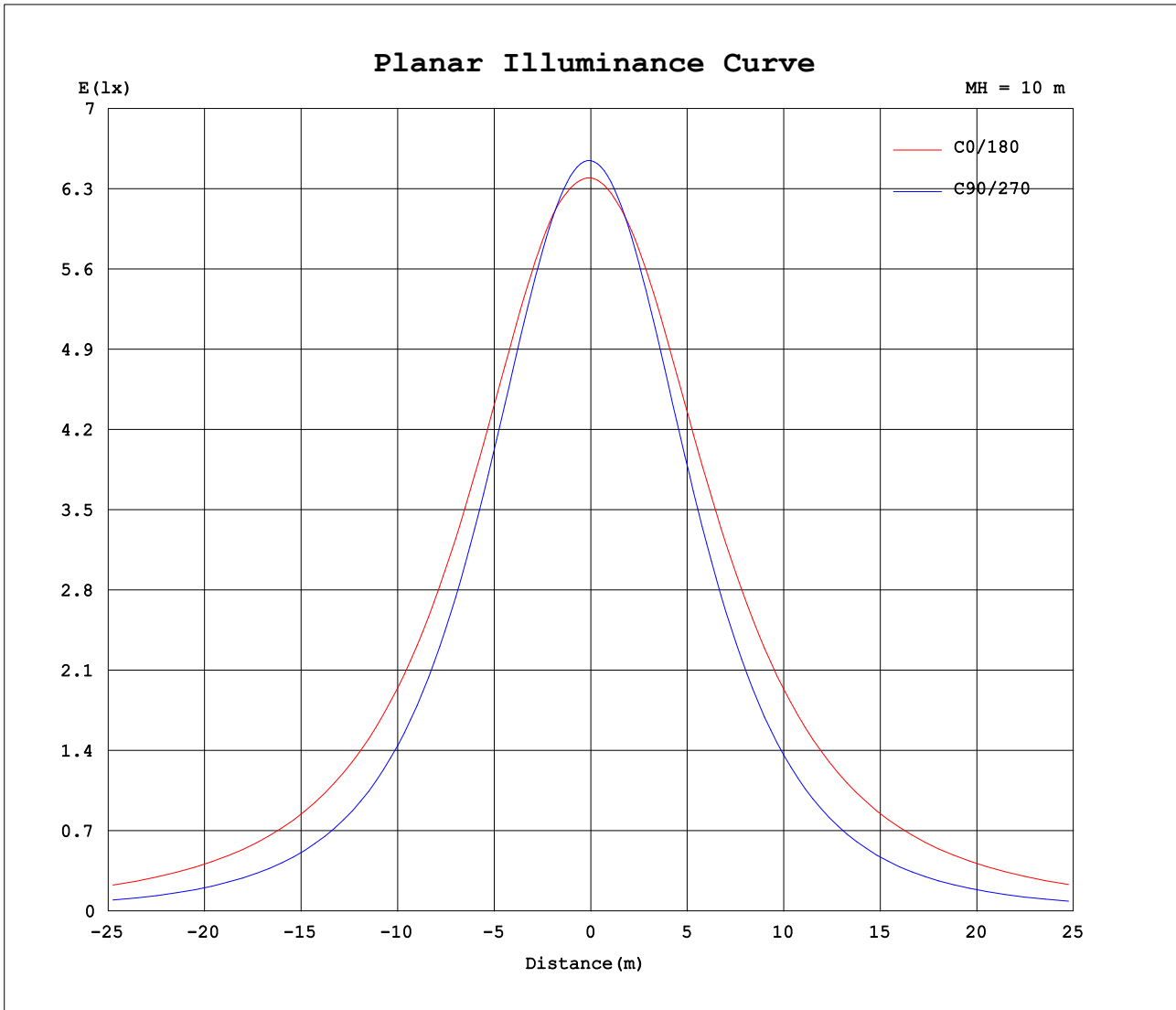
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2630A P:31.40W PF:0.9890 Freq:60.00Hz Lamp Flux:3236.71x1 lm		
NAME: LVF1R-48-34-95C-MVUD-BL 整灯 3500K	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	640	650	653	655	655	653	640	650	653	655	655	653							
5	641	649	653	653	652	650	637	646	647	649	651	651							
10	643	643	647	644	642	643	635	638	635	635	641	643							
15	640	636	634	627	626	632	631	627	617	614	624	632							
20	632	627	616	603	604	618	624	612	594	587	601	619							
25	621	615	593	573	577	600	613	596	566	554	573	603							
30	607	600	565	538	545	580	599	576	536	517	542	584							
35	591	581	535	498	510	557	584	555	502	476	507	562							
40	572	560	501	454	472	532	566	532	466	431	469	537							
45	551	536	465	409	432	506	548	508	430	385	430	510							
50	528	509	428	361	392	479	527	483	393	338	390	482							
55	503	482	390	313	351	451	505	458	355	290	350	452							
60	477	454	353	264	311	423	482	431	319	242	311	423							
65	451	426	318	214	272	395	458	405	284	194	274	394							
70	424	398	284	167	235	368	434	379	252	148	238	366							
75	397	371	253	123	201	341	409	354	220	105	206	339							
80	371	344	225	82.7	171	315	384	329	194	66.7	179	314							
85	345	319	201	49.9	145	291	359	305	171	37.0	156	290							
90	320	295	181	30.3	125	268	334	282	152	23.7	139	268							
95	297	273	164	26.4	110	246	310	261	136	22.6	124	247							
100	274	250	138	26.3	90.4	221	286	237	114	24.2	106	224							
105	249	220	126	29.0	83.4	193	260	210	107	26.5	98.4	200							
110	226	202	116	31.1	79.3	178	235	194	101	28.8	91.7	185							
115	209	187	104	31.9	76.6	165	215	179	96.0	31.2	82.6	169							
120	193	173	91.0	33.6	75.3	153	198	166	92.2	33.9	74.9	154							
125	178	158	80.9	35.8	75.2	142	182	154	89.9	36.4	68.7	137							
130	163	139	73.6	37.8	75.2	132	167	143	88.3	38.8	64.5	118							
135	151	118	67.9	39.8	74.9	123	151	132	86.7	41.1	61.5	104							
140	138	97.8	64.1	41.9	74.0	115	138	123	84.7	44.2	59.2	91.0							
145	127	83.3	60.4	47.5	73.2	108	128	114	82.5	50.2	59.5	79.7							
150	115	74.0	60.6	54.3	73.2	101	117	107	80.5	56.7	63.1	70.3							
155	106	66.8	63.2	60.2	73.8	93.9	104	99.0	79.0	61.5	66.8	64.0							
160	95.9	59.0	66.7	65.2	74.0	86.9	91.9	91.2	78.2	65.9	69.9	63.2							
165	83.9	55.6	70.6	69.6	74.2	81.9	73.1	84.5	77.7	69.8	72.4	67.0							
170	73.2	61.3	73.8	73.5	74.9	78.7	49.6	79.8	77.1	73.4	74.4	70.3							
175	52.8	65.9	75.4	76.0	75.3	75.8	44.6	75.7	76.1	76.4	76.1	72.1							
180	42.9	70.7	76.4	77.8	76.9	74.0	42.8	70.8	76.3	77.9	76.9	74.0							

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: