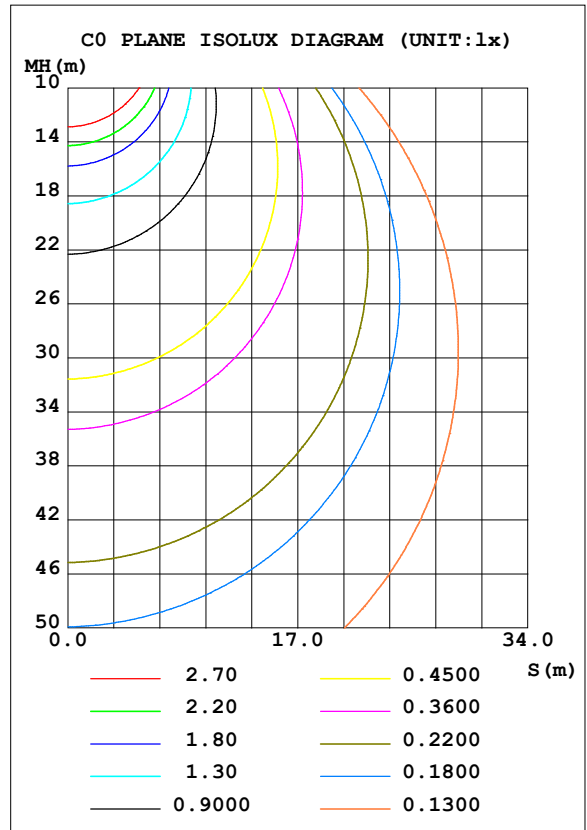
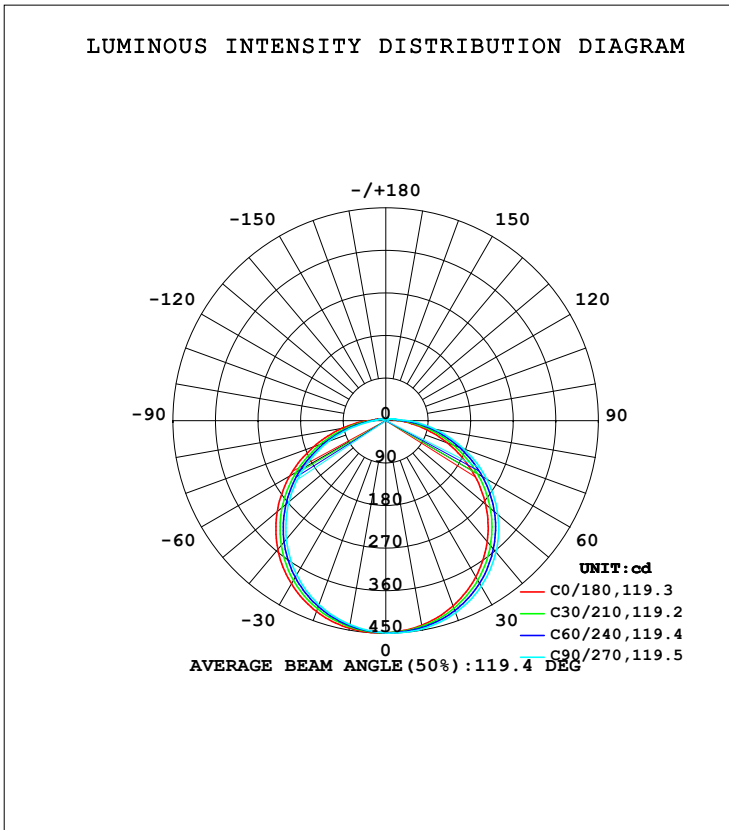


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.2500A P:25.90W PF:0.8570 Freq:60.00Hz Lamp Flux:1496.43x1 lm		
NAME: AFX-DCF14-26DOB-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 57.78 lm/W			
MODEL		I <sub>max</sub> (cd)	451.3	S/MH (C0/180)	1.32
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1496.4	η UP, DN (C0-180)	2.3, 49.9
NOMINAL FLUX (lm)	1496.43	CIE CLASS	DIRECT	η UP, DN (C180-360)	2.1, 45.7
LAMPS INSIDE	1	η up (%)	4.4	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	95.6	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2023-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.020m [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	439.2	442.9	447.2	448.8	445.7	441.6	438.1	438.3	0- 10	42.57	42.57	2.84,2.84
20	417.1	424.9	432.3	434.8	429.3	420.8	414.4	414.1	10- 20	122.8	165.4	11.1,11.1
30	381.3	393.4	404.3	407.0	399.2	386.6	376.9	376.5	20- 30	188.5	353.8	23.6,23.6
40	333.9	349.4	362.9	365.6	355.6	339.6	327.3	327.0	30- 40	231.2	585.1	39.1,39.1
50	275.9	294.1	309.5	312.2	300.1	281.1	267.2	267.2	40- 50	245.4	830.5	55.5,55.5
60	209.5	229.7	246.4	248.8	234.7	214.2	199.2	199.5	50- 60	229.3	1060	70.8,70.8
70	139.4	159.3	175.4	177.7	162.8	142.4	128.4	128.4	60- 70	185.6	1245	83.2,83.2
80	72.92	90.98	105.3	107.0	93.47	74.95	62.65	63.56	70- 80	123.8	1369	91.5,91.5
90	27.39	36.22	45.47	45.75	37.31	29.22	25.55	25.18	80- 90	61.36	1431	95.6,95.6
100	16.07	18.37	20.30	20.42	19.05	16.85	15.61	15.56	90-100	26.27	1457	97.4,97.4
110	8.387	11.21	11.47	12.51	10.50	9.438	8.105	8.601	100-110	14.51	1471	98.3,98.3
120	4.792	6.034	6.295	6.662	6.032	5.796	5.751	5.428	110-120	7.691	1479	98.8,98.8
130	4.655	4.960	4.883	4.505	5.439	5.884	5.915	5.487	120-130	4.803	1484	99.2,99.2
140	4.941	5.208	5.147	4.833	5.584	6.084	6.153	5.764	130-140	4.122	1488	99.4,99.4
150	5.333	5.512	5.488	5.049	5.819	6.278	6.397	5.976	140-150	3.518	1491	99.7,99.7
160	5.747	5.873	5.838	5.281	6.079	6.352	6.513	6.083	150-160	2.701	1494	99.8,99.8
170	6.130	6.164	5.645	5.545	6.110	6.373	6.214	5.862	160-170	1.697	1496	100,100
180	5.999	5.958	5.909	5.825	5.999	5.963	5.912	5.823	170-180	0.5671	1496	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 707.91 lm

%lum = 47.3%

%lamp = 47.3%

Conical surface Flux(120deg): 1059.8 lm

%lum = 70.8%

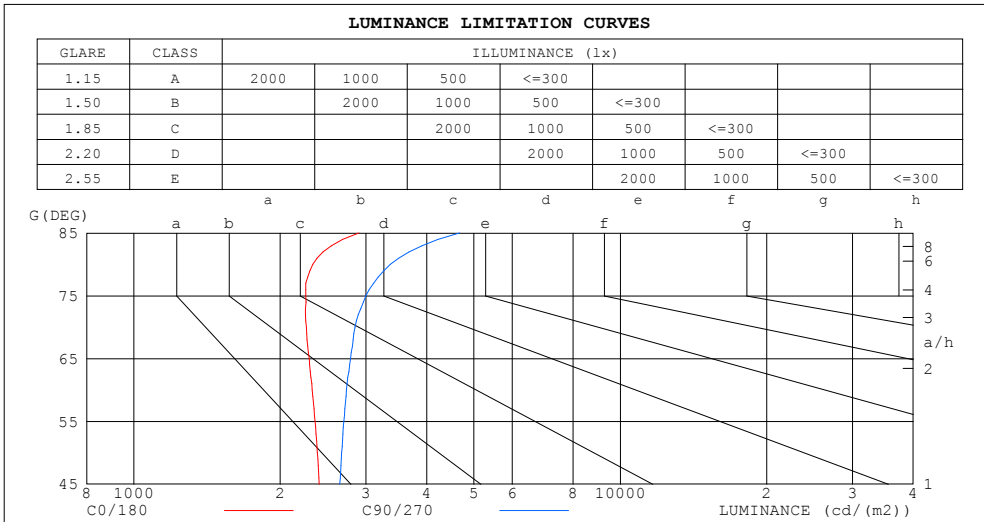
%lamp = 70.8%

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.020m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.2500A P:25.90W PF:0.8570 Freq:60.00Hz Lamp Flux:1496.43x1 lm		
NAME: AFX-DCF14-26DOB-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2901	4667
80	2333	3368
75	2258	3001
70	2264	2849
65	2294	2790
60	2328	2737
55	2359	2704
50	2384	2675
45	2405	2652

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.020m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.5V I:0.2500A P:25.90W PF:0.8570 Freq:60.00Hz Lamp Flux:1496.43x1 lm		
NAME: AFX-DCF14-26DOB-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14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	.342	.194	.062	.333	.190	.060	.317	.182	.058	.303	.175	.056	.289	.168	.054	
2.0	.311	.170	.052	.303	.167	.051	.289	.161	.050	.276	.155	.048	.264	.149	.047	
3.0	.283	.150	.045	.276	.148	.044	.263	.143	.043	.252	.138	.042	.241	.133	.041	
4.0	.258	.134	.039	.252	.132	.039	.241	.128	.038	.230	.124	.037	.221	.120	.037	
5.0	.237	.121	.035	.232	.119	.035	.221	.115	.034	.212	.112	.033	.203	.109	.033	
6.0	.219	.110	.031	.214	.108	.031	.205	.105	.031	.196	.102	.030	.188	.099	.029	
7.0	.203	.100	.028	.198	.099	.028	.190	.096	.028	.182	.094	.027	.175	.091	.027	
8.0	.189	.092	.026	.185	.091	.026	.177	.089	.025	.170	.086	.025	.164	.084	.025	
9.0	.176	.085	.024	.173	.084	.024	.166	.082	.023	.160	.080	.023	.154	.078	.023	
10.0	.166	.079	.022	.162	.078	.022	.156	.077	.022	.150	.075	.021	.145	.073	.021	

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	.224	.224	.224	.191	.191	.191	.131	.131	.131	.075	.075	.075	.024	.024	.024	
1.0	.216	.190	.166	.185	.163	.143	.127	.112	.099	.073	.065	.057	.023	.021	.019	
2.0	.209	.166	.130	.179	.143	.112	.123	.099	.078	.071	.057	.046	.023	.019	.015	
3.0	.201	.149	.107	.172	.128	.093	.118	.089	.065	.068	.052	.038	.022	.017	.013	
4.0	.193	.136	.091	.166	.117	.079	.114	.082	.056	.066	.048	.033	.021	.016	.011	
5.0	.186	.125	.081	.160	.108	.070	.110	.076	.050	.064	.044	.029	.021	.015	.010	
6.0	.179	.117	.073	.153	.101	.064	.106	.071	.045	.061	.042	.027	.020	.014	.009	
7.0	.172	.110	.067	.148	.096	.059	.102	.067	.042	.059	.039	.025	.019	.013	.008	
8.0	.165	.105	.063	.142	.091	.055	.098	.064	.039	.057	.038	.023	.018	.012	.008	
9.0	.159	.100	.060	.137	.086	.052	.095	.061	.037	.055	.036	.022	.018	.012	.007	
10.0	.153	.095	.057	.132	.083	.050	.091	.058	.035	.053	.034	.021	.017	.011	.007	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.020m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:120.5V I:0.2500A P:25.90W PF:0.8570 Freq:60.00Hz Lamp Flux:1496.43x1 lm										
NAME: AFX-DCF14-26DOB-95C-120D-NS 整灯 4000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: 革星					SUR.:14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	14.3	15.8	14.6	16.0	16.3	14.8	16.3	15.2	16.6	16.9
3H	15.9	17.3	16.3	17.6	18.0	16.8	18.2	17.1	18.5	18.8
4H	16.7	18.0	17.0	18.3	18.7	17.7	19.0	18.1	19.3	19.7
6H	17.3	18.6	17.7	18.9	19.3	18.5	19.8	18.9	20.2	20.5
8H	17.6	18.8	18.0	19.2	19.5	19.0	20.2	19.4	20.5	20.9
12H	17.8	19.0	18.3	19.4	19.8	19.4	20.6	19.8	20.9	21.3
4H 2H	15.0	16.3	15.4	16.7	17.0	15.5	16.8	15.8	17.1	17.5
3H	16.9	18.1	17.3	18.4	18.8	17.6	18.7	18.0	19.1	19.5
4H	17.8	18.8	18.2	19.3	19.7	18.6	19.7	19.1	20.1	20.5
6H	18.6	19.5	19.0	20.0	20.4	19.7	20.6	20.2	21.1	21.5
8H	18.9	19.8	19.4	20.3	20.8	20.2	21.1	20.7	21.5	22.0
12H	19.3	20.1	19.8	20.6	21.1	20.7	21.5	21.2	22.0	22.5
8H 4H	18.2	19.1	18.7	19.6	20.1	19.0	19.9	19.5	20.3	20.8
6H	19.3	20.0	19.8	20.5	21.0	20.2	21.0	20.7	21.5	22.0
8H	19.8	20.4	20.3	20.9	21.5	20.9	21.6	21.4	22.1	22.6
12H	20.3	20.8	20.8	21.4	21.9	21.6	22.2	22.1	22.7	23.3
12H 4H	18.3	19.1	18.8	19.6	20.1	19.0	19.8	19.5	20.3	20.8
6H	19.4	20.1	20.0	20.6	21.1	20.3	21.0	20.9	21.5	22.1
8H	20.0	20.6	20.6	21.1	21.7	21.1	21.6	21.6	22.2	22.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.4					+ 0.1 / - 0.3				

CIE Pub.117, 1496 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.020m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:120.5V I:0.2500A P:25.90W PF:0.8570 Freq:60.00Hz Lamp Flux:1496.43x1 lm		
NAME: AFX-DCF14-26DOB-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

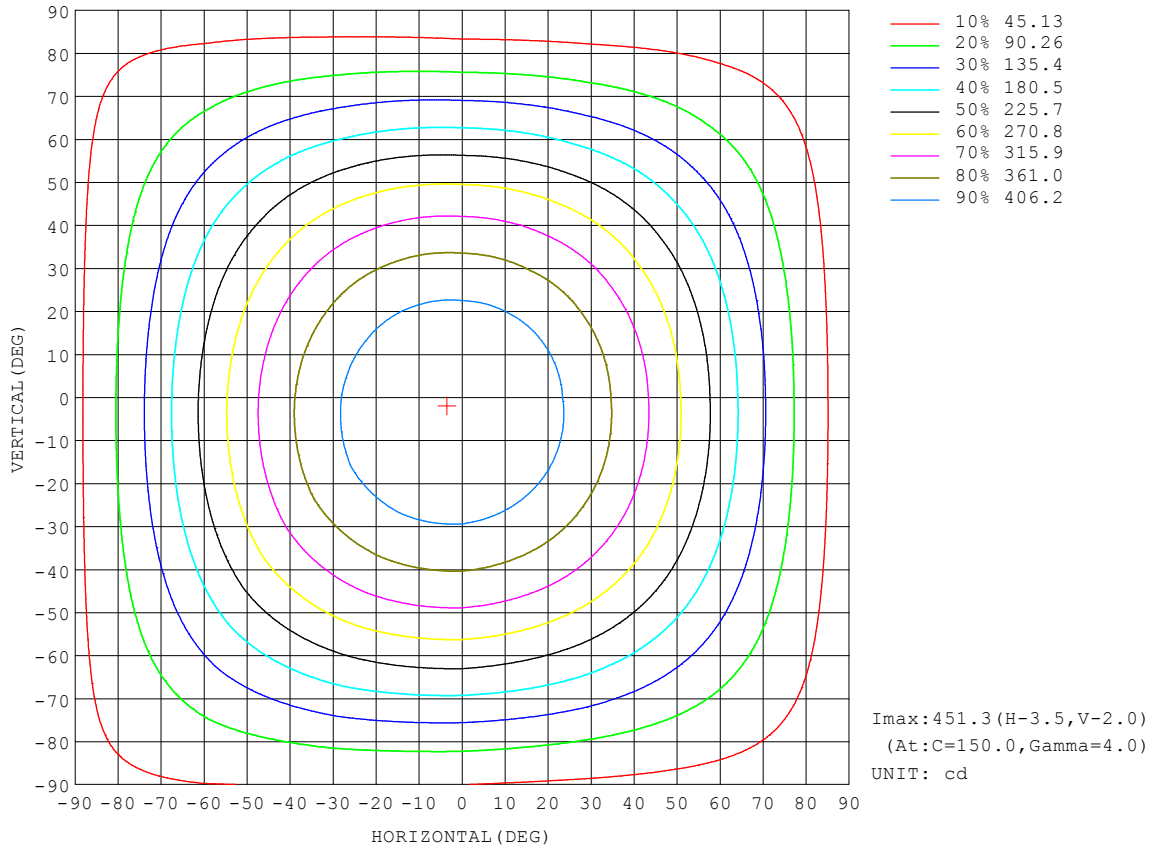
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	54	42	35	53	42	35	52	41	35	28
0.80	64	52	44	63	51	44	61	50	43	36
1.00	72	60	53	71	60	52	68	61	52	44
1.25	79	68	60	78	67	60	74	65	59	51
1.50	84	74	66	82	73	65	79	70	64	56
2.00	91	82	75	89	80	74	85	78	72	63
2.50	96	87	80	93	85	79	89	82	77	67
3.00	99	91	85	96	89	84	92	86	81	71
4.00	103	97	91	101	95	90	96	91	87	76
5.00	106	100	96	103	98	94	98	94	90	79
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:2023-05-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.020m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.5V I:0.2500A P:25.90W PF:0.8570 Freq:60.00Hz Lamp Flux:1496.43x1 lm		
NAME: AFX-DCF14-26DOB-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

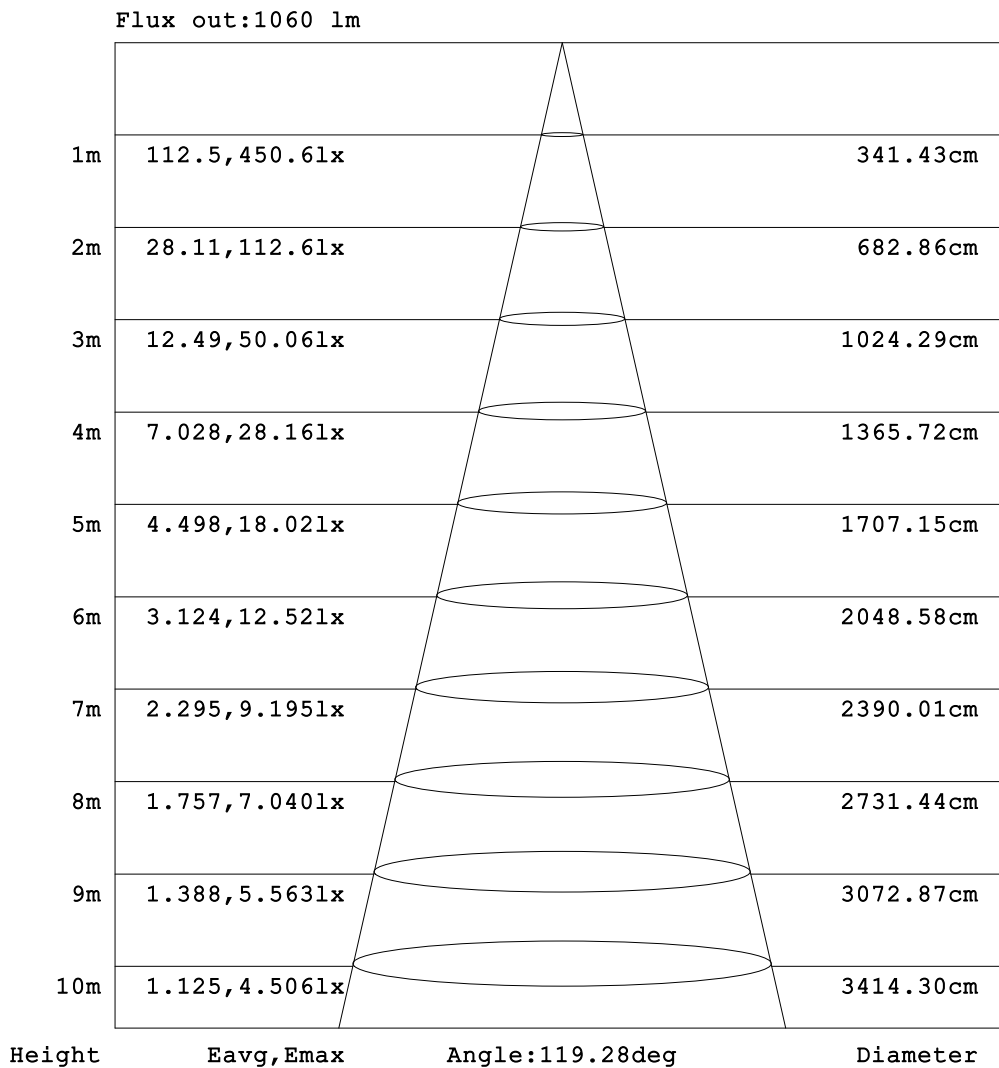


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2023-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.020m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:120.5V I:0.2500A P:25.90W PF:0.8570 Freq:60.00Hz Lamp Flux:1496.43x1 lm		
NAME: AFX-DCF14-26DOB-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 草星	SUR.:14寸	Shielding Angle:



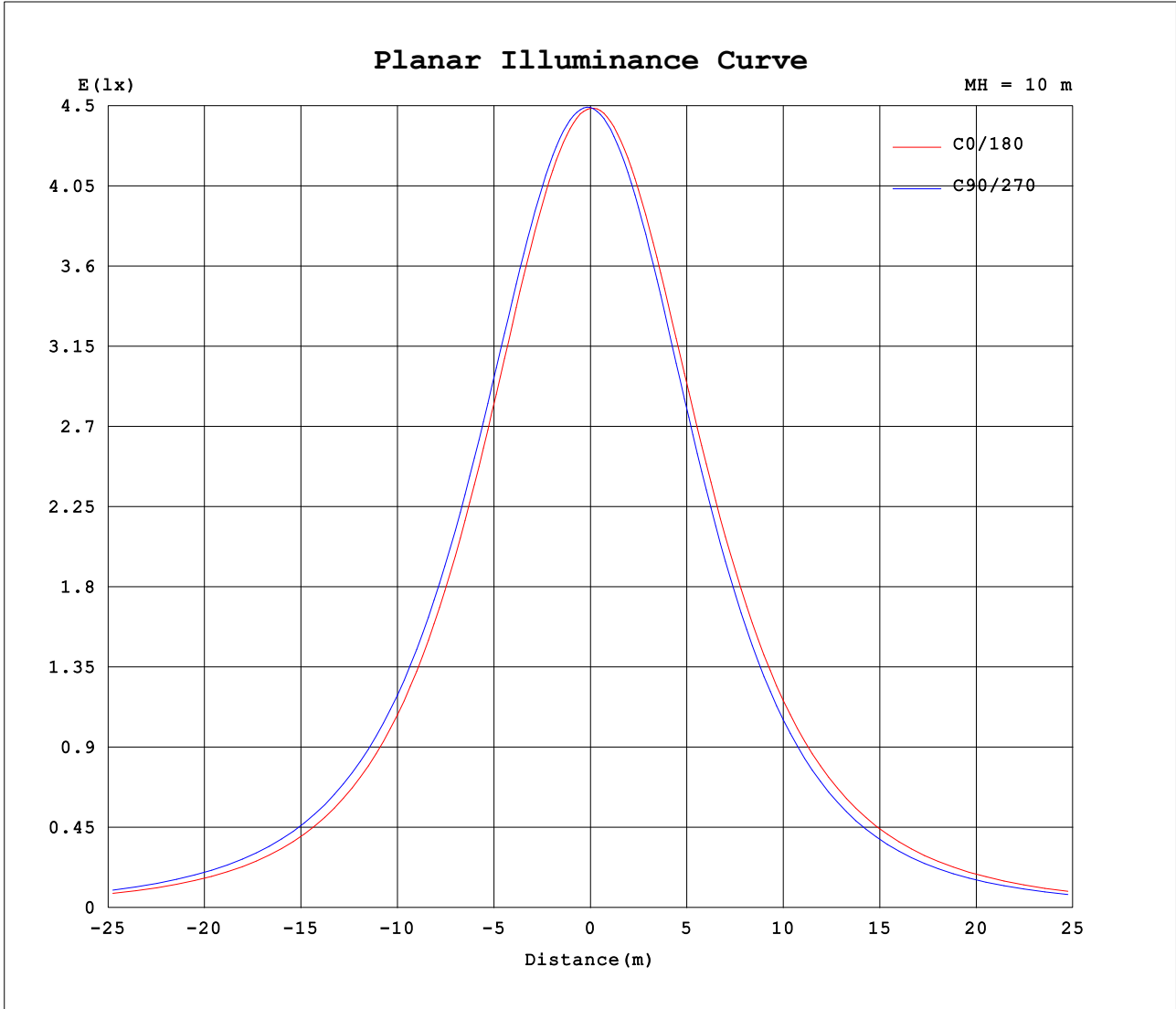
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.020m [K=1.0000]  
 Remarks:



Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2023-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.020m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.2500A P:25.90W PF:0.8570 Freq:60.00Hz Lamp Flux:1496.43x1 lm		
NAME: AFX-DCF14-26DOB-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	449	449	449	449	449	450	449	449	449	449	449	450							
5	446	447	448	450	450	451	449	447	446	445	446	446							
10	439	442	444	447	449	449	446	443	440	438	438	439							
15	430	434	437	442	443	444	439	435	431	428	427	429							
20	417	422	428	432	435	435	429	423	418	414	414	415							
25	401	407	414	420	423	423	416	409	402	397	396	398							
30	381	389	397	404	407	407	399	390	383	377	376	378							
35	359	369	377	385	388	388	379	369	360	354	352	354							
40	334	345	354	363	366	365	356	344	335	327	326	328							
45	306	318	328	338	341	340	329	317	307	299	297	300							
50	276	288	300	309	313	312	300	286	276	267	266	269							
55	244	257	269	279	283	281	268	254	243	234	233	235							
60	209	224	236	246	250	248	235	220	209	199	198	201							
65	174	188	201	212	216	213	200	184	172	164	161	165							
70	139	153	166	175	180	176	163	148	137	128	126	131							
75	105	118	131	140	144	140	127	113	102	93.7	92.8	96.4							
80	72.9	85.4	96.6	105	109	105	93.5	79.5	70.3	62.6	61.9	65.2							
85	45.5	56.0	65.2	73.2	75.6	72.7	62.0	50.5	43.2	37.7	37.1	39.7							
90	27.4	33.1	39.4	45.5	47.0	44.5	37.3	30.8	27.7	25.6	24.9	25.4							
95	20.0	22.3	24.6	27.1	28.2	27.4	25.0	22.4	21.1	20.0	19.6	19.6							
100	16.1	17.7	19.0	20.3	20.7	20.2	19.1	17.0	16.7	15.6	15.4	15.7							
105	11.8	13.9	15.3	15.8	15.9	16.1	13.7	12.8	12.8	10.8	11.5	11.9							
110	8.39	10.6	11.8	11.5	12.4	12.7	10.5	9.53	9.35	8.11	8.44	8.76							
115	6.13	7.84	8.74	8.56	9.34	9.35	7.80	7.10	6.85	6.28	6.25	6.51							
120	4.79	5.73	6.34	6.29	6.77	6.55	6.03	5.77	5.82	5.75	5.49	5.36							
125	4.58	4.84	5.03	5.02	4.98	4.69	5.44	5.77	5.86	5.80	5.53	5.28							
130	4.65	4.92	5.00	4.88	4.65	4.36	5.44	5.82	5.95	5.91	5.65	5.32							
135	4.78	5.03	5.11	4.99	4.79	4.46	5.49	5.89	6.06	6.02	5.78	5.44							
140	4.94	5.17	5.25	5.15	4.99	4.68	5.58	5.98	6.19	6.15	5.93	5.60							
145	5.14	5.32	5.39	5.32	5.17	4.85	5.69	6.06	6.30	6.29	6.10	5.69							
150	5.33	5.48	5.54	5.49	5.30	4.80	5.82	6.15	6.40	6.40	6.24	5.72							
155	5.53	5.67	5.71	5.65	5.45	4.93	5.95	6.22	6.45	6.49	6.30	5.81							
160	5.75	5.86	5.89	5.84	5.45	5.11	6.08	6.29	6.41	6.51	6.17	5.99							
165	5.96	6.04	6.06	6.00	5.37	5.32	6.19	6.36	6.44	6.36	6.04	5.87							
170	6.13	6.17	6.16	5.65	5.57	5.52	6.11	6.36	6.38	6.21	5.87	5.85							
175	5.92	5.99	5.84	5.79	5.73	5.68	6.00	6.01	5.98	5.95	5.88	5.84							
180	6.00	5.98	5.94	5.91	5.85	5.80	6.00	5.98	5.95	5.91	5.84	5.80							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.020m [K=1.0000]  
 Remarks: