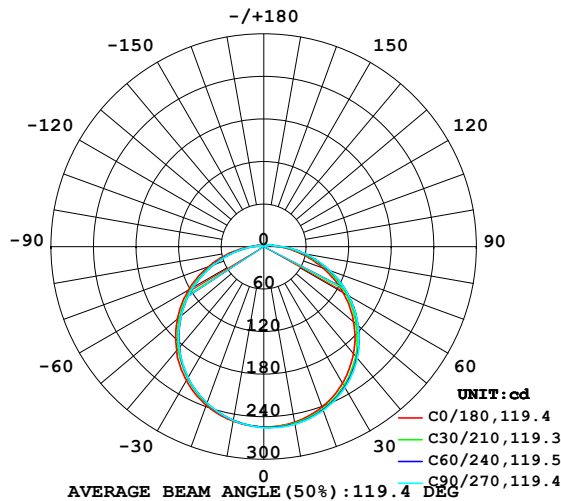


LUMINAIRE PHOTOMETRIC TEST REPORT

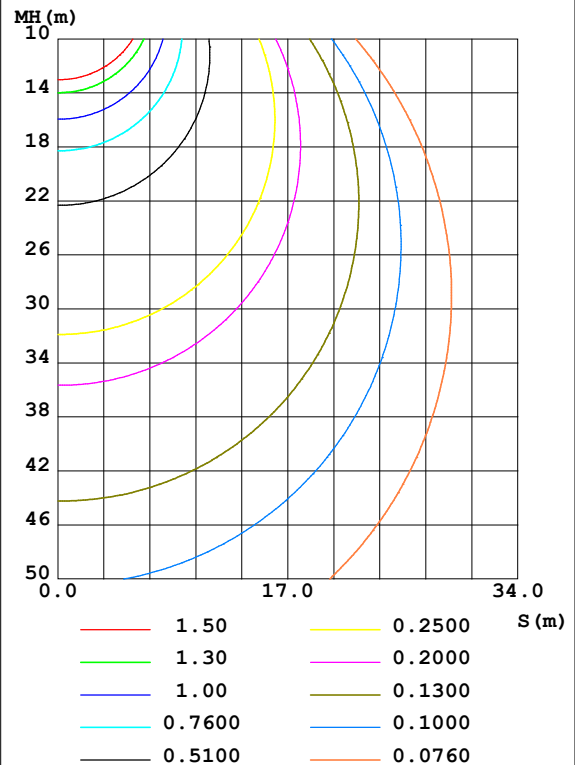
Test:U:120.5V I:0.1540A P:16.50W PF:0.8870 Freq:60.00Hz Lamp Flux:851.346x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 51.60 lm/W			
MODEL		Imax(cd)	256.0	S/MH(C0/180)	1.28
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)		TOTAL FLUX(lm)	851.35	η UP,DN(C0-180)	2.4,50.1
NOMINAL FLUX(lm)	851.346	CIE CLASS	DIRECT	η UP,DN(C180-360)	2.1,45.4
LAMPS INSIDE	1	η up(%)	4.5	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	95.5	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-05-02

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	251.3	253.3	254.2	253.2	249.9	248.7	248.8	250.4	0- 10	24.17	24.17	2.84, 2.84
20	240.7	244.2	245.7	243.0	237.9	235.1	234.7	238.0	10- 20	69.63	93.80	11, 11
30	222.3	227.2	229.2	225.3	218.3	214.3	213.6	218.1	20- 30	106.7	200.5	23.6, 23.6
40	197.0	203.0	205.2	200.2	191.3	186.4	185.8	190.7	30- 40	130.8	331.3	38.9, 38.9
50	165.5	172.0	173.6	168.4	159.2	153.6	152.5	158.4	40- 50	138.5	469.8	55.2, 55.2
60	129.1	136.4	138.2	132.3	122.7	116.4	115.2	121.5	50- 60	129.8	599.6	70.4, 70.4
70	89.20	96.77	99.08	92.66	83.51	76.78	74.95	81.71	60- 70	105.8	705.4	82.9, 82.9
80	50.74	57.51	59.71	53.80	45.70	39.97	38.38	44.08	70- 80	71.24	776.7	91.2, 91.2
90	21.18	25.10	26.38	22.91	19.25	16.45	15.66	18.10	80- 90	36.25	812.9	95.5, 95.5
100	10.98	12.12	12.32	11.43	10.39	8.746	7.940	9.668	90-100	15.90	828.8	97.4, 97.4
110	5.260	6.859	6.356	6.506	5.012	4.085	3.622	4.989	100-110	8.186	837.0	98.3, 98.3
120	2.971	3.272	3.342	3.373	3.372	3.056	3.317	3.311	110-120	4.111	841.1	98.8, 98.8
130	2.948	2.564	2.720	2.895	3.485	3.097	3.378	3.388	120-130	2.736	843.9	99.1, 99.1
140	3.156	2.691	2.874	3.094	3.636	3.345	3.462	3.515	130-140	2.408	846.3	99.4, 99.4
150	3.426	3.009	3.099	3.322	3.784	3.626	3.722	3.718	140-150	2.087	848.4	99.6, 99.6
160	3.690	3.318	3.366	3.560	3.867	3.580	3.935	3.877	150-160	1.642	850.0	99.8, 99.8
170	3.729	3.207	3.263	3.488	3.587	3.363	3.366	3.695	160-170	1.016	851.0	100, 100
180	3.391	3.350	3.330	3.326	3.401	3.351	3.350	3.318	170-180	0.3220	851.3	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 400.61 lm

%lum = 47.1%

%lamp = 47.1%

Conical surface Flux(120deg): 599.63 lm

%lum = 70.4%

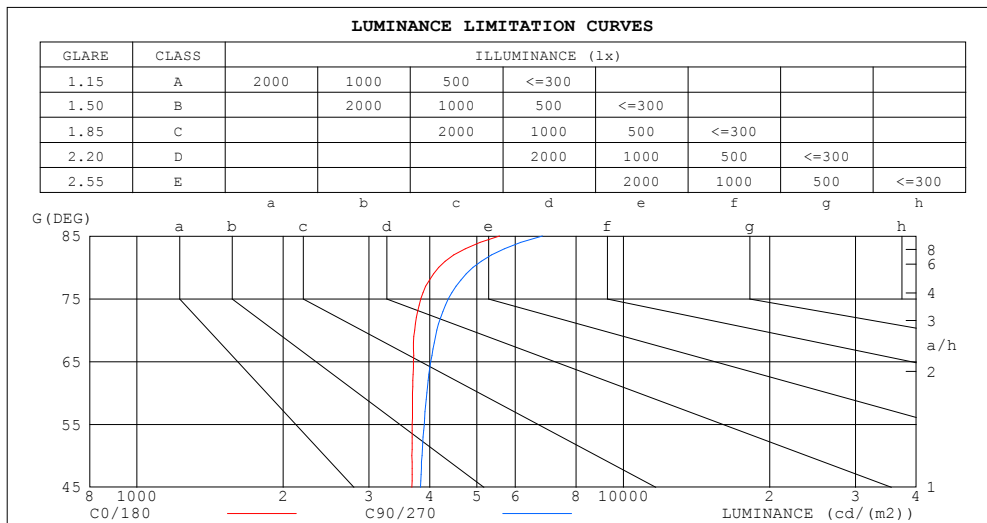
%lamp = 70.4%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-05-02

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:0.1540A P:16.50W PF:0.8870 Freq:60.00Hz Lamp Flux:851.346x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5570	6819
80	4175	4912
75	3838	4368
70	3726	4139
65	3706	4020
60	3689	3948
55	3682	3898
50	3678	3858
45	3677	3828

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-05-02

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:0.1540A P:16.50W PF:0.8870 Freq:60.00Hz Lamp Flux:851.346x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12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	.344	.196	.062	.335	.191	.061	.319	.183	.059	.305	.176	.056	.291	.169	.054		
2.0	.312	.171	.052	.304	.168	.052	.290	.161	.050	.277	.155	.049	.265	.150	.047		
3.0	.283	.151	.045	.277	.148	.045	.264	.143	.043	.252	.138	.042	.241	.134	.041		
4.0	.259	.134	.040	.253	.132	.039	.241	.128	.038	.231	.124	.037	.221	.120	.037		
5.0	.237	.121	.035	.232	.119	.035	.222	.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	.199	.099	.028	.190	.096	.028	.183	.094	.027	.175	.091	.027		
8.0	.189	.092	.026	.185	.091	.026	.178	.089	.025	.171	.086	.025	.164	.084	.025		
9.0	.177	.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		

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	.225	.225	.225	.192	.192	.192	.131	.131	.131	.075	.075	.075	.024	.024	.024	
1.0	.217	.190	.166	.186	.163	.143	.127	.112	.099	.073	.065	.058	.023	.021	.019	
2.0	.210	.167	.130	.180	.143	.113	.123	.099	.079	.071	.058	.046	.023	.019	.015	
3.0	.202	.149	.107	.173	.129	.093	.119	.090	.065	.069	.052	.039	.022	.017	.013	
4.0	.194	.136	.092	.167	.118	.080	.115	.082	.056	.066	.048	.033	.021	.016	.011	
5.0	.187	.126	.081	.160	.109	.071	.111	.076	.050	.064	.045	.030	.021	.015	.010	
6.0	.180	.118	.074	.154	.102	.064	.106	.072	.045	.062	.042	.027	.020	.014	.009	
7.0	.173	.111	.068	.148	.096	.059	.103	.068	.042	.060	.040	.025	.019	.013	.008	
8.0	.166	.105	.064	.143	.091	.056	.099	.064	.040	.057	.038	.024	.019	.012	.008	
9.0	.160	.101	.061	.138	.087	.053	.095	.061	.038	.056	.036	.022	.018	.012	.007	
10.0	.154	.096	.058	.133	.084	.051	.092	.059	.036	.054	.035	.021	.017	.011	.007	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-05-02

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:0.1540A P:16.50W PF:0.8870 Freq:60.00Hz Lamp Flux:851.346x1 lm										
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (4000K)					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: 革星					SUR.:12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	17.9	19.4	18.3	19.7	20.0	18.2	19.7	18.5	20.0	20.3
3H	19.7	21.1	20.1	21.4	21.8	20.1	21.5	20.5	21.8	22.2
4H	20.6	21.9	20.9	22.2	22.6	21.0	22.4	21.4	22.7	23.0
6H	21.3	22.6	21.7	22.9	23.3	21.9	23.1	22.3	23.5	23.9
8H	21.7	22.9	22.1	23.2	23.6	22.3	23.5	22.7	23.9	24.3
12H	22.0	23.2	22.4	23.6	24.0	22.7	23.9	23.1	24.3	24.7
4H 2H	18.7	20.0	19.1	20.3	20.7	18.9	20.2	19.3	20.5	20.9
3H	20.7	21.9	21.1	22.2	22.6	21.0	22.2	21.4	22.5	23.0
4H	21.7	22.7	22.1	23.2	23.6	22.1	23.1	22.5	23.5	24.0
6H	22.6	23.6	23.1	24.0	24.5	23.1	24.1	23.6	24.5	25.0
8H	23.0	23.9	23.5	24.4	24.9	23.6	24.5	24.1	25.0	25.4
12H	23.5	24.3	24.0	24.8	25.3	24.1	25.0	24.6	25.4	25.9
8H 4H	22.1	23.0	22.6	23.5	24.0	22.5	23.3	22.9	23.8	24.3
6H	23.3	24.0	23.8	24.5	25.1	23.7	24.5	24.2	25.0	25.5
8H	23.9	24.5	24.4	25.1	25.6	24.4	25.1	24.9	25.6	26.1
12H	24.5	25.1	25.0	25.6	26.2	25.1	25.7	25.6	26.2	26.8
12H 4H	22.2	23.0	22.7	23.5	24.0	22.5	23.3	23.0	23.8	24.3
6H	23.5	24.1	24.0	24.6	25.2	23.9	24.5	24.4	25.0	25.6
8H	24.1	24.7	24.7	25.2	25.8	24.6	25.2	25.2	25.7	26.3
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	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 851.3 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.6$)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-05-02

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:0.1540A P:16.50W PF:0.8870 Freq:60.00Hz Lamp Flux:851.346x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

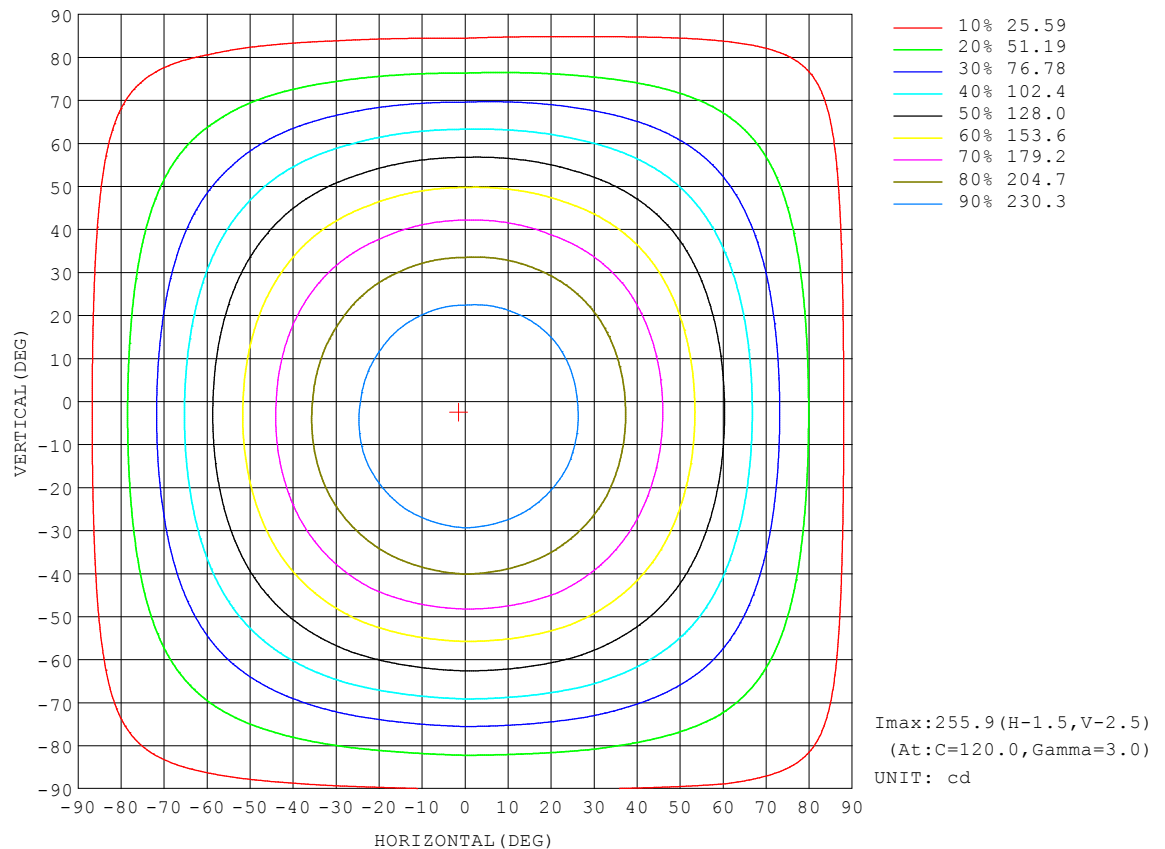
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	35	53	42	35	52	41	35	28
0.80	64	52	44	63	51	44	61	50	43	36
1.00	72	60	52	71	60	52	68	61	51	44
1.25	79	68	60	77	67	60	74	65	59	51
1.50	84	73	66	82	72	65	79	70	64	55
2.00	91	82	75	89	80	74	85	78	72	63
2.50	95	87	80	93	85	79	88	82	77	67
3.00	99	91	85	96	89	84	92	86	81	71
4.00	103	97	91	100	95	90	95	91	86	76
5.00	106	100	95	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: 2023-05-02

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:

ISOCANDELA DIAGRAM

Test:U:120.5V I:0.1540A P:16.50W PF:0.8870 Freq:60.00Hz Lamp Flux:851.346x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

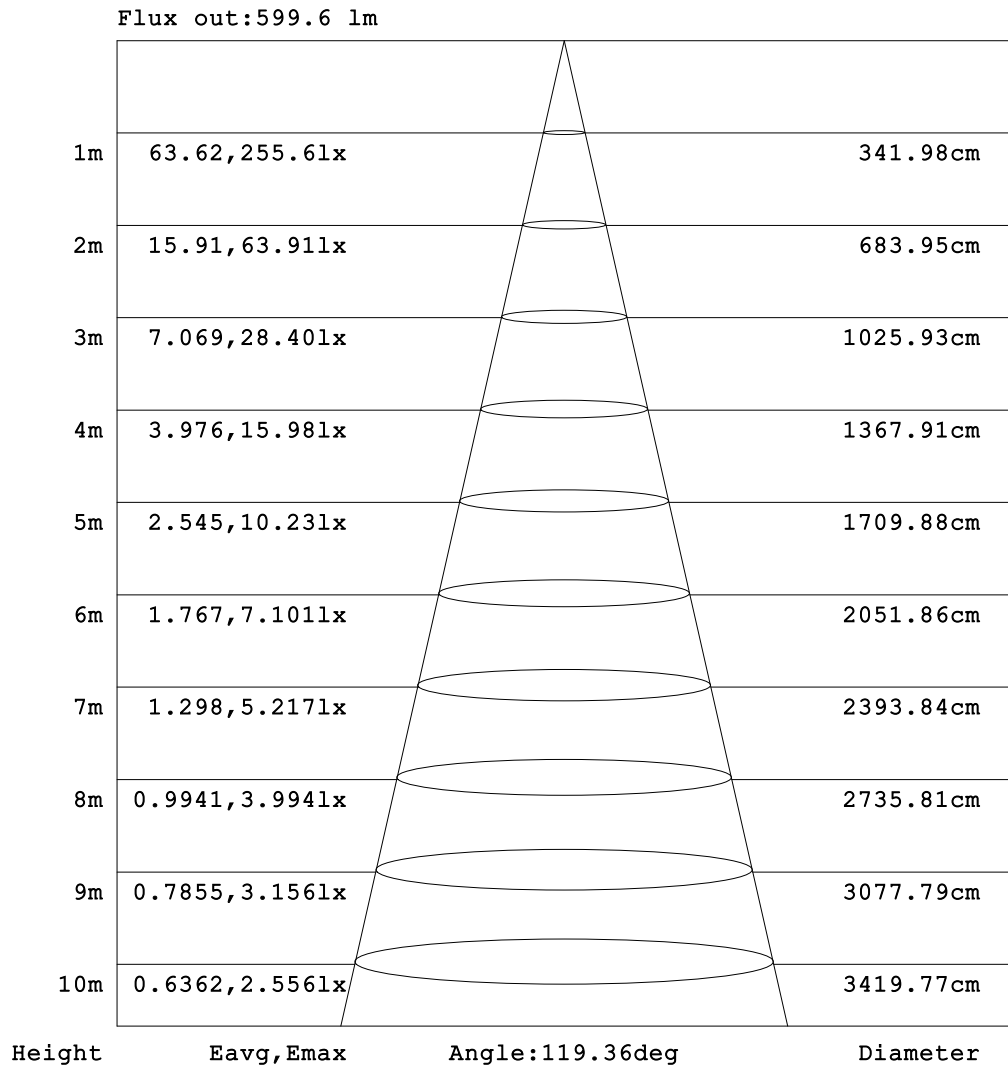


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-05-02

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:0.1540A P:16.50W PF:0.8870 Freq:60.00Hz Lamp Flux:851.346x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

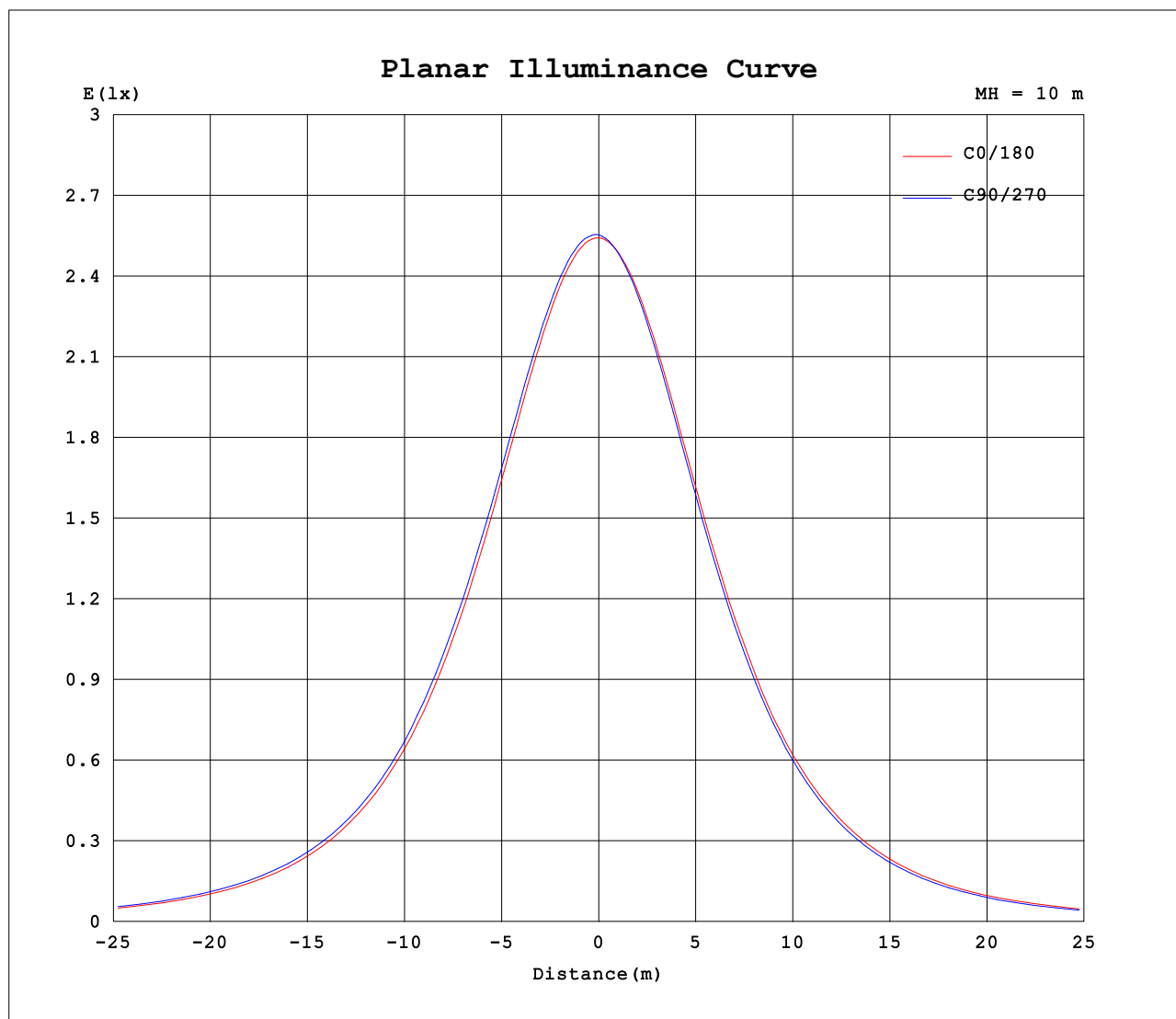


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-05-02

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: 2023-05-02

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:0.1540A P:16.50W PF:0.8870 Freq:60.00Hz Lamp Flux:851.346x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	254	255	255	255	256	256	254	255	255	255	256	256							
5	254	255	255	256	256	255	253	253	253	253	254	254							
10	251	253	254	254	254	253	250	249	249	249	250	251							
15	247	249	250	251	250	248	245	243	243	242	244	246							
20	241	243	245	246	244	242	238	236	235	235	237	239							
25	233	236	238	238	237	233	229	226	225	225	227	230							
30	222	226	228	229	227	223	218	215	214	214	216	220							
35	211	215	217	218	216	212	206	202	201	200	203	207							
40	197	202	204	205	202	198	191	188	185	186	188	194							
45	182	186	190	189	188	182	176	172	169	170	172	178							
50	165	170	174	174	171	165	159	155	152	152	155	161							
55	148	153	157	157	154	148	141	137	134	134	137	143							
60	129	134	138	138	135	129	123	118	115	115	118	125							
65	110	115	119	119	116	110	103	97.5	95.3	94.7	98.9	105							
70	89.2	95.1	98.4	99.1	95.4	89.9	83.5	77.9	75.7	75.0	79.0	84.4							
75	69.5	75.2	78.4	79.1	75.5	70.2	64.0	58.7	56.6	55.8	59.7	64.9							
80	50.7	56.1	58.9	59.7	56.3	51.3	45.7	40.9	39.0	38.4	41.7	46.5							
85	34.0	38.4	40.9	41.6	38.6	34.4	30.0	26.2	24.6	24.1	26.7	30.5							
90	21.2	24.3	25.9	26.4	24.2	21.6	19.2	17.0	15.9	15.7	17.0	19.2							
95	14.4	15.9	16.7	16.7	15.7	14.6	13.7	12.3	11.6	11.2	12.2	13.6							
100	11.0	11.9	12.3	12.3	11.8	11.1	10.4	9.14	8.35	7.94	9.01	10.3							
105	7.25	8.96	9.55	9.33	9.08	8.48	7.06	6.43	5.64	5.02	6.46	7.65							
110	5.26	6.54	7.18	6.36	6.71	6.30	5.01	4.40	3.77	3.62	4.52	5.46							
115	3.79	4.59	5.08	4.63	4.87	4.48	3.82	3.15	3.09	3.32	3.37	3.95							
120	2.97	3.13	3.42	3.34	3.54	3.21	3.37	3.06	3.05	3.32	3.30	3.32							
125	2.90	2.59	2.58	2.72	2.85	2.89	3.42	3.03	3.08	3.29	3.35	3.30							
130	2.95	2.59	2.54	2.72	2.85	2.94	3.48	3.03	3.17	3.38	3.42	3.36							
135	3.04	2.64	2.54	2.78	2.93	3.04	3.56	3.07	3.30	3.47	3.50	3.44							
140	3.16	2.76	2.62	2.87	3.03	3.16	3.64	3.24	3.45	3.46	3.50	3.53							
145	3.29	2.92	2.75	2.98	3.14	3.28	3.72	3.46	3.57	3.60	3.66	3.62							
150	3.43	3.11	2.91	3.10	3.25	3.39	3.78	3.55	3.70	3.72	3.79	3.64							
155	3.56	3.29	3.10	3.23	3.38	3.51	3.84	3.51	3.81	3.86	3.82	3.74							
160	3.69	3.48	3.16	3.37	3.49	3.63	3.87	3.53	3.63	3.93	3.85	3.90							
165	3.77	3.48	3.14	3.39	3.56	3.66	3.75	3.49	3.34	3.96	3.88	3.84							
170	3.73	3.24	3.17	3.26	3.47	3.51	3.59	3.37	3.36	3.37	3.75	3.64							
175	3.39	3.31	3.27	3.26	3.26	3.27	3.39	3.36	3.35	3.36	3.34	3.36							
180	3.39	3.36	3.34	3.33	3.32	3.33	3.40	3.36	3.34	3.35	3.33	3.31							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-05-02

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: