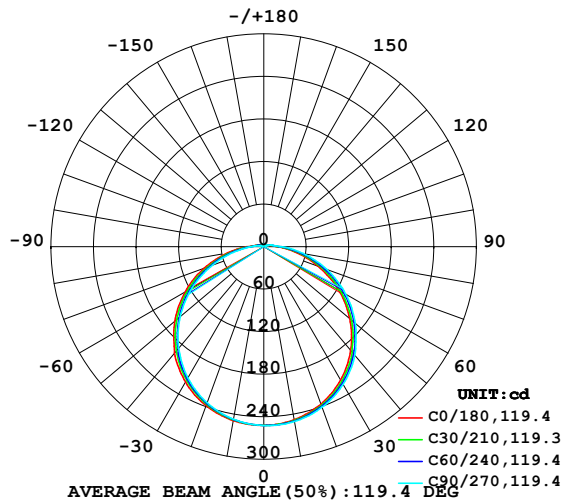


LUMINAIRE PHOTOMETRIC TEST REPORT

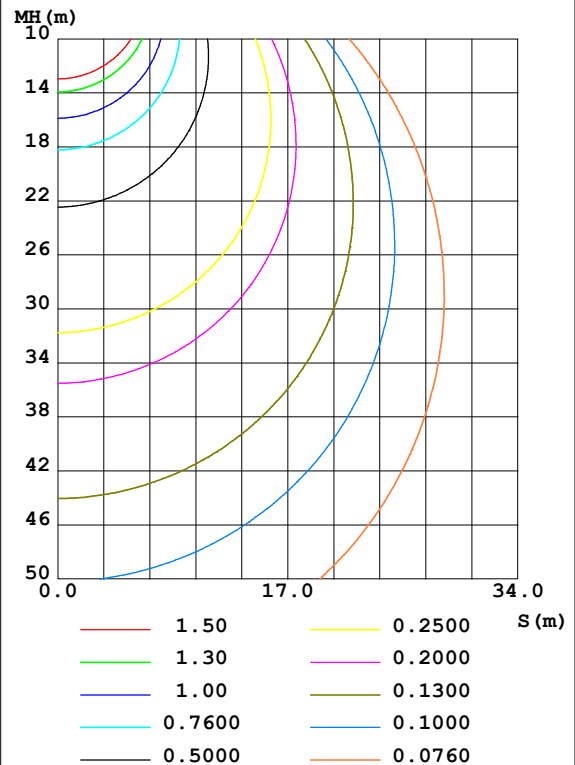
Test:U:120.4V I:0.1550A P:16.50W PF:0.8820 Freq:60.00Hz Lamp Flux:844.994x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 51.21 lm/W			
MODEL		Imax(cd)	252.9	S/MH(C0/180)	1.30
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)		TOTAL FLUX(lm)	844.99	η UP,DN(C0-180)	2.4,49.0
NOMINAL FLUX(lm)	844.994	CIE CLASS	DIRECT	η UP,DN(C180-360)	2.2,46.3
LAMPS INSIDE	1	η up(%)	4.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	95.3	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:2023-05-04

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	247.8	249.3	250.4	250.6	249.3	247.7	247.1	247.4	0- 10	23.91	23.91	2.83, 2.83
20	236.2	238.9	240.9	241.0	238.6	235.9	234.2	235.0	10- 20	68.94	92.85	11, 11
30	216.9	221.0	224.1	224.0	220.8	216.7	214.0	214.9	20- 30	105.7	198.6	23.5, 23.5
40	190.7	195.5	199.9	199.7	196.1	190.0	186.9	187.4	30- 40	129.6	328.1	38.8, 38.8
50	158.5	163.9	168.4	168.6	163.8	158.2	154.1	154.8	40- 50	137.2	465.3	55.1, 55.1
60	121.8	128.0	133.3	133.3	128.1	121.7	116.8	117.9	50- 60	128.5	593.8	70.3, 70.3
70	82.11	88.95	94.87	94.37	89.68	82.46	77.16	78.46	60- 70	104.7	698.4	82.7, 82.7
80	45.14	51.17	56.43	56.03	51.86	45.26	40.79	41.95	70- 80	70.69	769.1	91, 91
90	19.04	21.85	24.96	24.80	22.32	18.90	17.07	17.96	80- 90	36.30	805.4	95.3, 95.3
100	10.70	11.80	12.63	12.38	11.21	10.28	9.434	10.44	90-100	16.51	821.9	97.3, 97.3
110	5.321	6.778	6.227	6.556	5.484	5.423	4.735	5.857	100-110	8.799	830.7	98.3, 98.3
120	2.802	3.363	3.249	2.984	3.220	3.337	3.318	3.140	110-120	4.306	835.0	98.8, 98.8
130	2.626	2.877	2.919	2.678	3.176	3.383	3.334	3.109	120-130	2.705	837.7	99.1, 99.1
140	2.771	3.027	3.102	2.904	3.273	3.465	3.446	3.271	130-140	2.385	840.1	99.4, 99.4
150	2.980	3.210	3.298	3.028	3.420	3.552	3.565	3.343	140-150	2.030	842.1	99.7, 99.7
160	3.227	3.362	3.475	3.162	3.572	3.636	3.642	3.406	150-160	1.555	843.7	99.8, 99.8
170	3.446	3.512	3.218	3.232	3.500	3.629	3.562	3.322	160-170	0.9742	844.7	100, 100
180	3.391	3.366	3.353	3.322	3.395	3.374	3.366	3.326	170-180	0.3228	845.0	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 396.8 lm

%lum = 47.0%

%lamp = 47.0%

Conical surface Flux(120deg): 593.76 lm

%lum = 70.3%

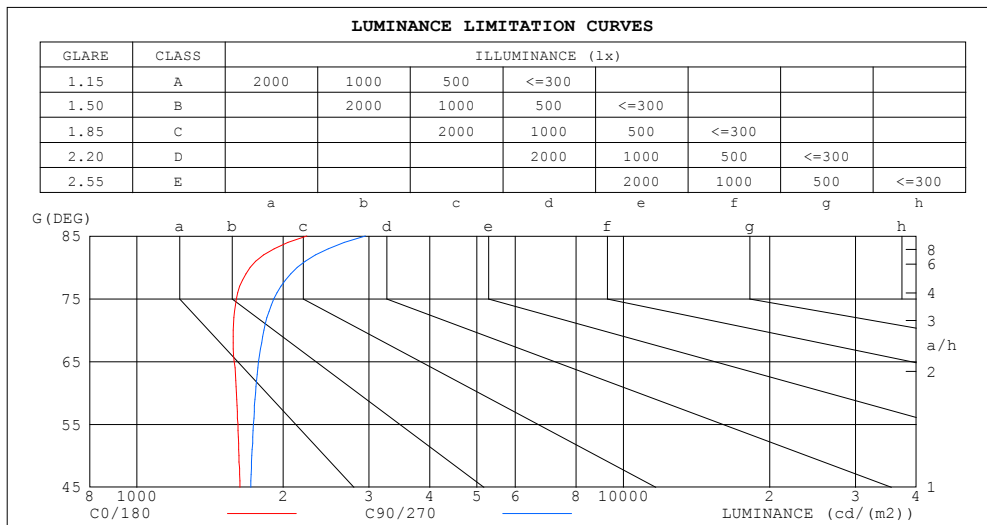
%lamp = 70.3%

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:120.4V I:0.1550A P:16.50W PF:0.8820 Freq:60.00Hz Lamp Flux:844.994x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2237	2950
80	1710	2138
75	1602	1915
70	1579	1825
65	1587	1779
60	1603	1754
55	1613	1737
50	1622	1724
45	1631	1714

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:120.4V I:0.1550A P:16.50W PF:0.8820 Freq:60.00Hz Lamp Flux:844.994x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3000K	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	.336	.191	.061	.320	.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	.133	.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	.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	.024		
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	.076	.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	.226	.226	.226	.193	.193	.193	.132	.132	.132	.076	.076	.076	.024	.024	.024	
1.0	.219	.192	.168	.187	.165	.144	.128	.113	.100	.074	.066	.058	.024	.021	.019	
2.0	.211	.168	.132	.181	.145	.114	.124	.100	.079	.071	.058	.047	.023	.019	.015	
3.0	.204	.151	.109	.174	.130	.094	.120	.090	.066	.069	.053	.039	.022	.017	.013	
4.0	.196	.138	.093	.168	.119	.081	.116	.083	.057	.067	.049	.034	.022	.016	.011	
5.0	.188	.128	.083	.162	.110	.072	.111	.077	.051	.064	.045	.030	.021	.015	.010	
6.0	.181	.119	.075	.155	.103	.065	.107	.072	.046	.062	.043	.028	.020	.014	.009	
7.0	.174	.113	.070	.150	.098	.061	.103	.068	.043	.060	.040	.026	.019	.013	.008	
8.0	.167	.107	.065	.144	.093	.057	.100	.065	.040	.058	.038	.024	.019	.013	.008	
9.0	.161	.102	.062	.139	.088	.054	.096	.062	.038	.056	.037	.023	.018	.012	.008	
10.0	.155	.098	.059	.134	.085	.052	.093	.060	.037	.054	.035	.022	.018	.012	.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:120.4V I:0.1550A P:16.50W PF:0.8820 Freq:60.00Hz Lamp Flux:844.994x1 lm										
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3000K					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	14.9	16.4	15.2	16.7	17.0	15.2	16.7	15.6	17.0	17.3
3H	16.6	18.0	17.0	18.3	18.7	17.1	18.5	17.5	18.8	19.2
4H	17.4	18.7	17.8	19.1	19.4	18.0	19.3	18.4	19.7	20.0
6H	18.1	19.3	18.5	19.7	20.1	18.9	20.1	19.3	20.5	20.9
8H	18.4	19.6	18.8	20.0	20.4	19.3	20.5	19.7	20.8	21.2
12H	18.7	19.9	19.1	20.3	20.7	19.7	20.8	20.1	21.2	21.6
4H 2H	15.6	16.9	16.0	17.3	17.6	15.9	17.2	16.3	17.5	17.9
3H	17.5	18.7	18.0	19.1	19.5	18.0	19.1	18.4	19.5	19.9
4H	18.5	19.5	18.9	19.9	20.4	19.0	20.1	19.5	20.5	20.9
6H	19.3	20.3	19.8	20.7	21.2	20.0	21.0	20.5	21.4	21.9
8H	19.7	20.6	20.2	21.1	21.6	20.5	21.4	21.0	21.9	22.3
12H	20.1	21.0	20.6	21.4	21.9	21.0	21.9	21.5	22.3	22.8
8H 4H	18.9	19.8	19.4	20.2	20.7	19.4	20.2	19.8	20.7	21.2
6H	20.0	20.7	20.5	21.2	21.8	20.6	21.3	21.1	21.8	22.4
8H	20.5	21.2	21.1	21.7	22.3	21.2	21.9	21.8	22.4	23.0
12H	21.1	21.7	21.6	22.2	22.8	21.9	22.5	22.5	23.0	23.6
12H 4H	19.0	19.8	19.5	20.3	20.8	19.4	20.2	19.9	20.7	21.2
6H	20.1	20.8	20.7	21.3	21.9	20.7	21.4	21.2	21.9	22.4
8H	20.8	21.4	21.3	21.9	22.5	21.4	22.0	22.0	22.5	23.1
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, 845.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.6)

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:120.4V I:0.1550A P:16.50W PF:0.8820 Freq:60.00Hz Lamp Flux:844.994x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

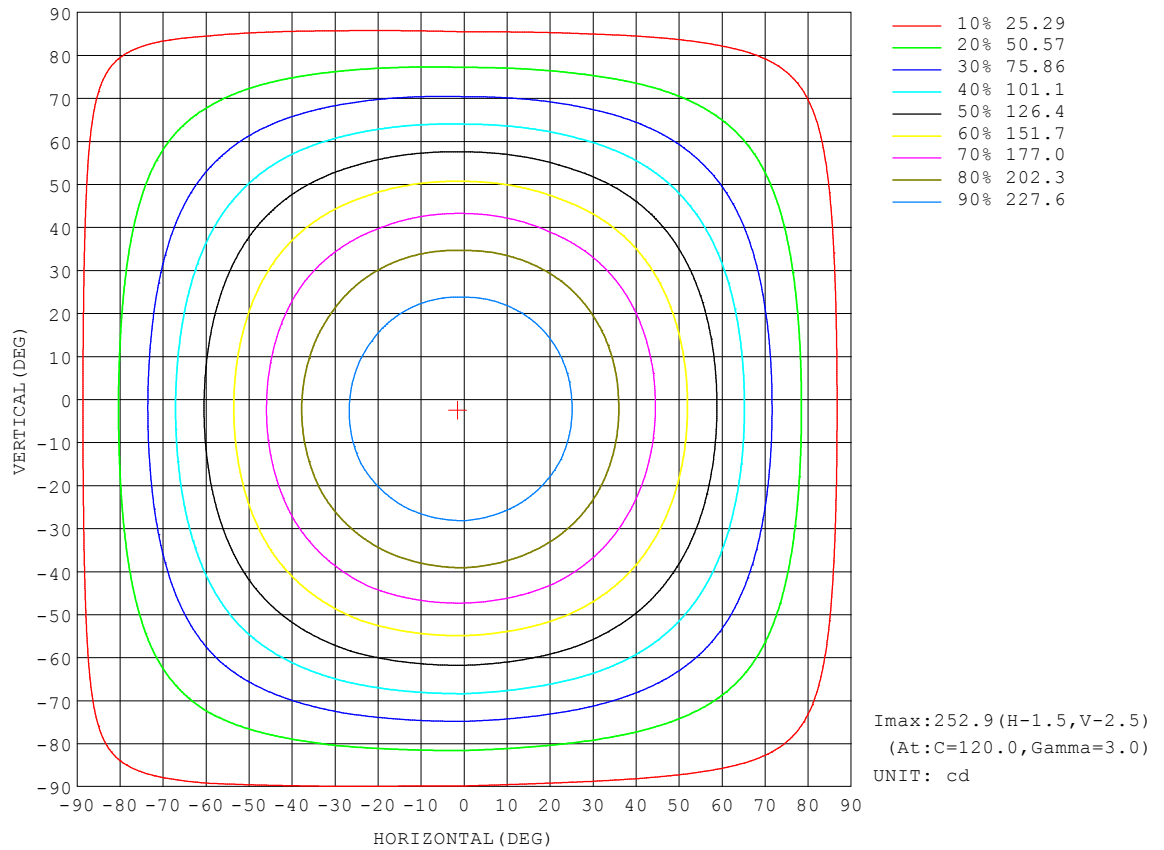
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	35	53	42	35	52	41	35	28
0.80	64	52	44	63	51	44	61	50	43	36
1.00	72	60	52	71	59	52	68	61	51	44
1.25	79	68	60	77	67	59	74	65	58	50
1.50	84	73	66	82	72	65	79	70	64	55
2.00	91	82	74	89	80	73	85	78	72	63
2.50	95	87	80	93	85	79	88	82	76	67
3.00	99	91	85	96	89	83	91	86	81	71
4.00	103	97	91	100	94	89	95	90	86	76
5.00	106	100	95	103	98	93	98	93	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

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:120.4V I:0.1550A P:16.50W PF:0.8820 Freq:60.00Hz Lamp Flux:844.994x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

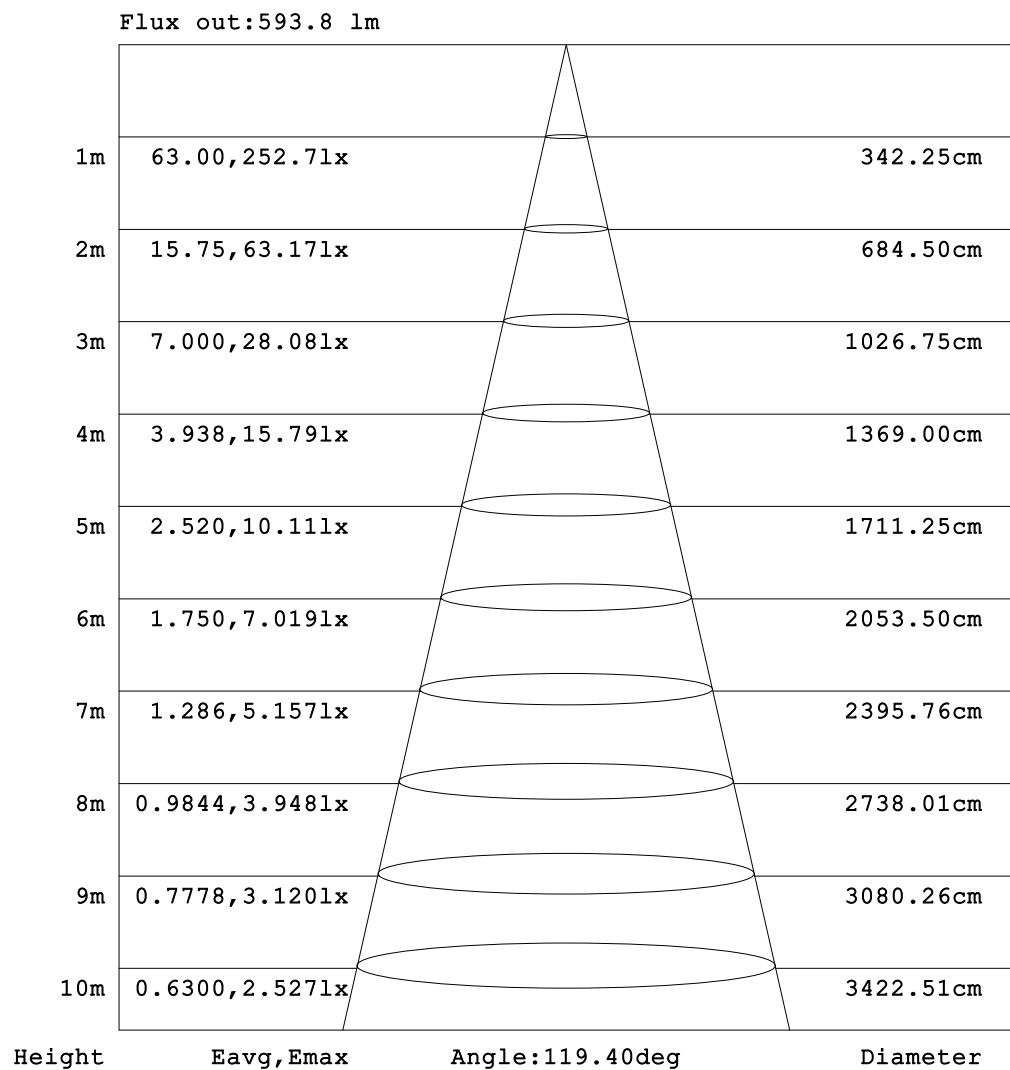


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-05-04

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:120.4V I:0.1550A P:16.50W PF:0.8820 Freq:60.00Hz Lamp Flux:844.994x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

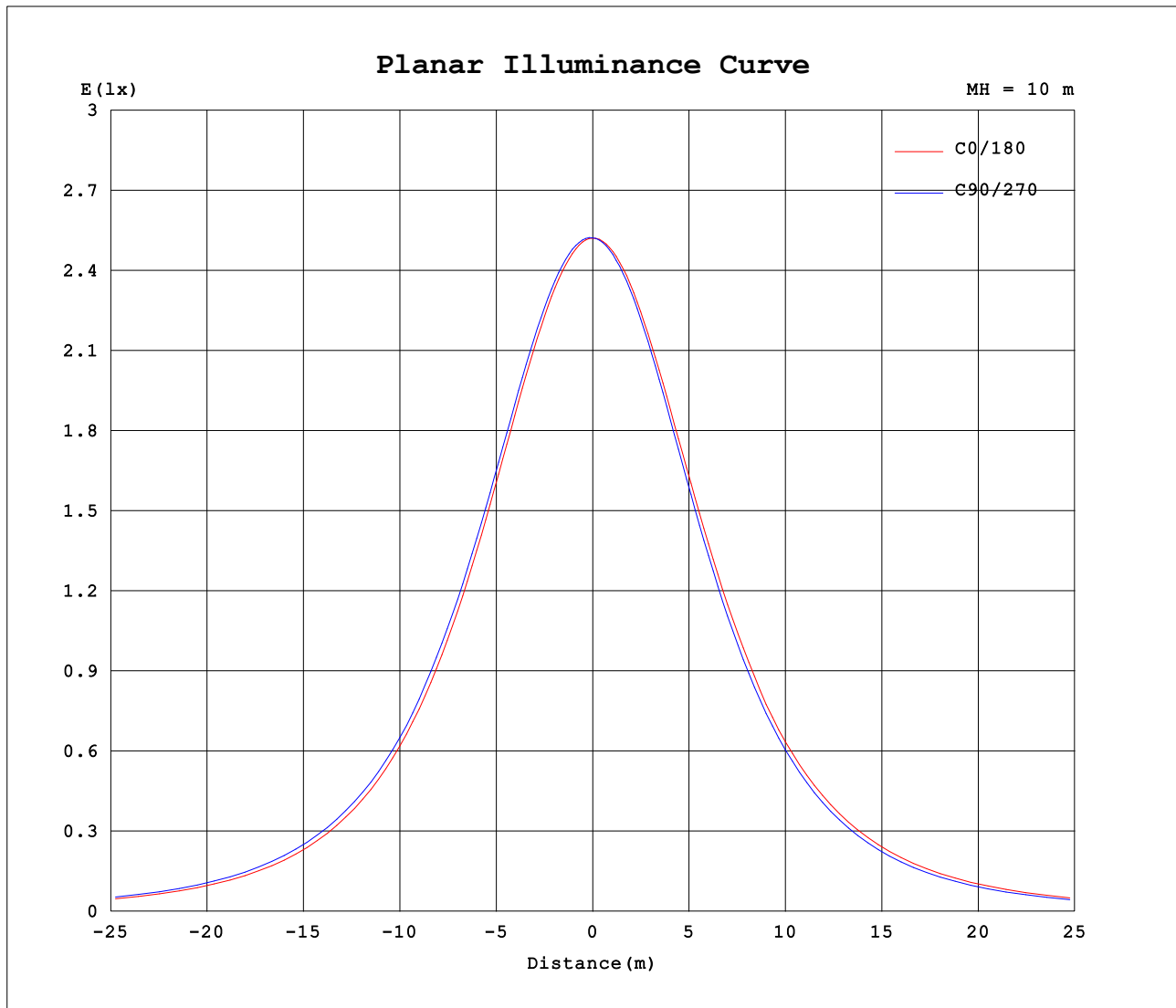


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:120.4V I:0.1550A P:16.50W PF:0.8820 Freq:60.00Hz Lamp Flux:844.994x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3000K	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	252	252	252	252	253	253	252	252	252	252	253	253							
5	251	251	252	252	252	253	252	251	251	251	251	251							
10	248	249	250	250	251	251	249	248	247	247	247	248							
15	243	245	246	247	247	247	245	243	242	242	242	242							
20	236	238	240	241	241	241	239	236	235	234	235	235							
25	228	230	232	233	234	233	231	228	226	225	225	226							
30	217	220	222	224	224	224	221	218	216	214	214	215							
35	205	208	211	213	213	212	209	206	203	201	202	203							
40	191	194	197	200	200	199	196	192	188	187	186	189							
45	175	178	182	184	186	183	180	177	173	171	170	173							
50	159	162	166	168	170	167	164	160	156	154	153	156							
55	141	144	149	151	153	150	147	143	138	136	135	138							
60	122	125	131	133	134	132	128	124	119	117	117	119							
65	102	106	111	114	115	113	109	105	100	96.6	97.2	98.7							
70	82.1	86.8	91.1	94.9	95.2	93.6	89.7	84.3	80.6	77.2	77.7	79.2							
75	63.0	67.5	71.7	75.3	75.7	74.1	70.3	65.1	61.6	58.3	58.7	60.3							
80	45.1	49.3	53.1	56.4	56.8	55.3	51.9	46.9	43.6	40.8	41.2	42.7							
85	29.6	33.0	36.1	39.1	39.5	38.2	35.1	31.0	28.4	26.3	26.6	27.8							
90	19.0	20.8	22.9	25.0	25.3	24.3	22.3	19.7	18.1	17.1	17.6	18.4							
95	13.8	14.6	15.7	16.8	16.9	16.2	15.3	13.9	13.2	12.8	13.2	13.6							
100	10.7	11.5	12.1	12.6	12.6	12.2	11.2	10.5	10.1	9.43	10.2	10.7							
105	7.21	8.82	9.47	9.16	9.33	9.20	7.48	7.67	7.42	6.41	7.73	8.20							
110	5.32	6.48	7.07	6.23	6.59	6.52	5.48	5.57	5.27	4.73	5.67	6.05							
115	3.78	4.59	5.00	4.48	4.54	4.31	4.00	4.00	3.77	3.65	4.06	4.27							
120	2.80	3.28	3.44	3.25	3.05	2.92	3.22	3.33	3.35	3.32	3.16	3.12							
125	2.62	2.80	2.89	2.88	2.72	2.56	3.16	3.33	3.38	3.30	3.17	3.00							
130	2.63	2.84	2.92	2.92	2.77	2.58	3.18	3.35	3.42	3.33	3.21	3.00							
135	2.68	2.89	3.00	3.01	2.86	2.68	3.22	3.39	3.46	3.39	3.28	3.08							
140	2.77	2.96	3.09	3.10	2.98	2.83	3.27	3.42	3.51	3.45	3.37	3.18							
145	2.88	3.05	3.19	3.20	3.11	2.89	3.34	3.46	3.55	3.51	3.44	3.23							
150	2.98	3.14	3.28	3.30	3.18	2.88	3.42	3.50	3.60	3.56	3.49	3.20							
155	3.10	3.24	3.34	3.38	3.25	2.96	3.50	3.56	3.63	3.62	3.50	3.28							
160	3.23	3.35	3.38	3.48	3.25	3.07	3.57	3.62	3.66	3.64	3.44	3.37							
165	3.35	3.45	3.46	3.52	3.16	3.16	3.63	3.65	3.66	3.63	3.39	3.33							
170	3.45	3.52	3.51	3.22	3.23	3.23	3.50	3.64	3.62	3.56	3.33	3.31							
175	3.35	3.37	3.31	3.30	3.26	3.26	3.39	3.41	3.38	3.38	3.34	3.34							
180	3.39	3.38	3.35	3.35	3.33	3.32	3.39	3.38	3.37	3.37	3.33	3.32							

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: