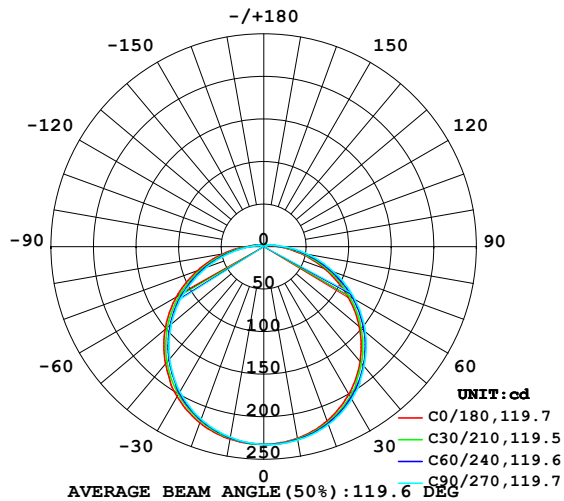


LUMINAIRE PHOTOMETRIC TEST REPORT

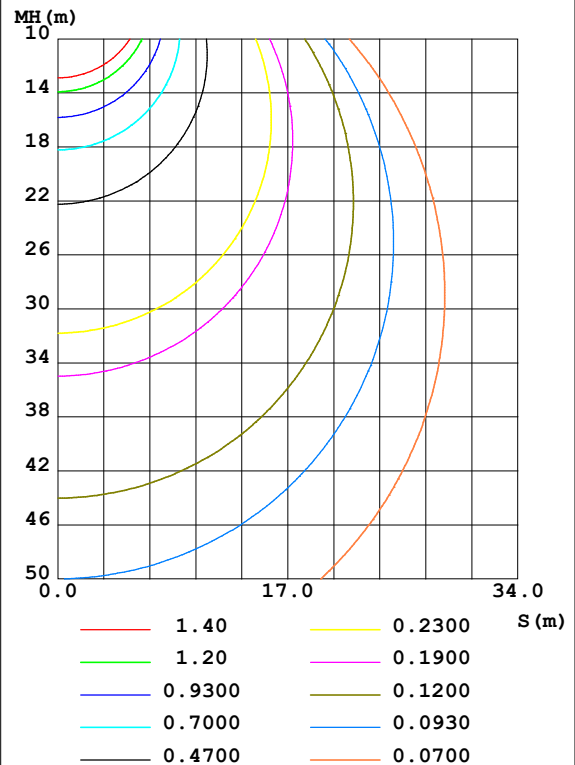
Test:U:120.5V I:0.1570A P:16.50W PF:0.8720 Freq:60.00Hz Lamp Flux:781x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 47.33 lm/W			
MODEL		Imax(cd)	232.8	S/MH(C0/180)	1.30
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)		TOTAL FLUX(lm)	781.00	η UP,DN(C0-180)	2.5,49.1
NOMINAL FLUX(lm)	781	CIE CLASS	DIRECT	η UP,DN(C180-360)	2.3,46.2
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	228.6	229.8	230.7	230.9	229.7	228.3	227.5	227.9	0- 10	22.04	22.04	2.82, 2.82
20	218.0	220.5	222.3	222.1	220.2	217.3	215.6	216.3	10- 20	63.54	85.58	11, 11
30	200.2	204.1	206.9	206.6	203.7	199.6	197.0	197.9	20- 30	97.45	183.0	23.4, 23.4
40	176.2	180.4	183.5	183.7	179.7	175.2	172.1	172.6	30- 40	119.3	302.4	38.7, 38.7
50	146.4	151.7	155.8	155.9	151.5	145.8	141.9	142.7	40- 50	126.6	429.0	54.9, 54.9
60	112.7	118.6	123.7	123.4	118.7	112.3	107.8	108.7	50- 60	118.7	547.7	70.1, 70.1
70	76.10	82.52	88.13	87.57	83.16	76.20	71.25	72.51	60- 70	96.76	644.4	82.5, 82.5
80	42.00	47.67	52.63	52.26	48.17	41.94	37.76	38.92	70- 80	65.57	710.0	90.9, 90.9
90	17.88	20.57	23.60	23.41	20.99	17.71	16.01	16.86	80- 90	33.90	743.9	95.3, 95.3
100	10.04	11.14	12.02	11.78	10.66	9.703	8.890	9.841	90-100	15.59	759.5	97.2, 97.2
110	4.938	6.298	5.845	6.223	5.166	5.090	4.390	5.460	100-110	8.295	767.8	98.3, 98.3
120	2.576	3.064	2.973	2.791	2.999	3.094	3.067	2.895	110-120	4.005	771.8	98.8, 98.8
130	2.430	2.663	2.697	2.467	2.945	3.142	3.076	2.869	120-130	2.501	774.3	99.1, 99.1
140	2.568	2.806	2.871	2.673	3.032	3.197	3.179	3.017	130-140	2.205	776.5	99.4, 99.4
150	2.761	2.962	3.044	2.789	3.154	3.276	3.285	3.081	140-150	1.872	778.4	99.7, 99.7
160	2.973	3.096	3.205	2.910	3.295	3.351	3.346	3.131	150-160	1.433	779.8	99.8, 99.8
170	3.176	3.234	2.961	2.975	3.249	3.343	3.273	3.057	160-170	0.8968	780.7	100, 100
180	3.125	3.104	3.089	3.046	3.134	3.105	3.089	3.046	170-180	0.2969	781.0	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 365.69 lm

%lum = 46.8%

%lamp = 46.8%

Conical surface Flux(120deg): 547.68 lm

%lum = 70.1%

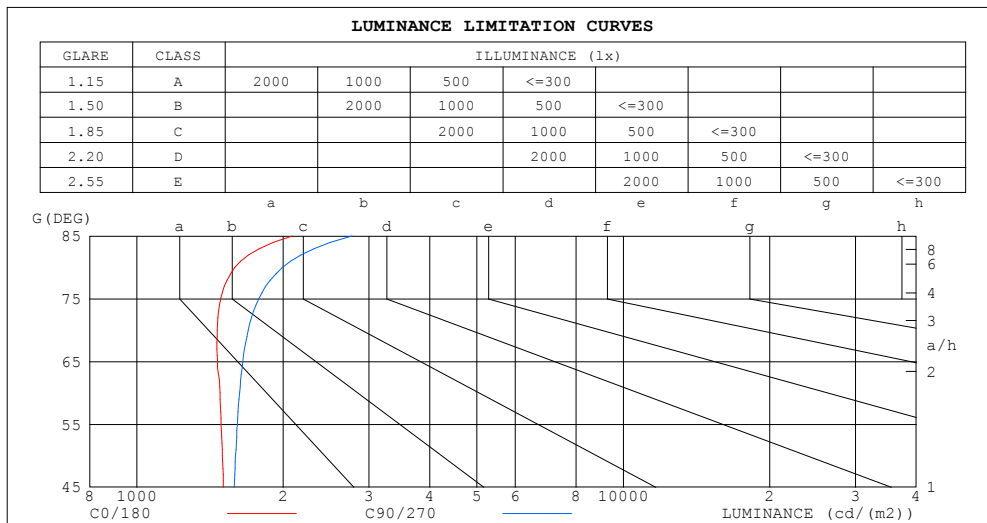
%lamp = 70.1%

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:0.1570A P:16.50W PF:0.8720 Freq:60.00Hz Lamp Flux:781x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 2700K	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:

WEC AND CCEC

Test:U:120.5V I:0.1570A P:16.50W PF:0.8720 Freq:60.00Hz Lamp Flux:781x1 lm					
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 2700K			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	.345	.196	.062	.336	.192	.061	.320	.184	.059	.305	.176	.057	.292	.169	.055		
2.0	.312	.171	.053	.305	.168	.052	.290	.161	.050	.277	.155	.049	.265	.150	.047		
3.0	.284	.151	.045	.277	.148	.045	.264	.143	.043	.252	.138	.042	.241	.134	.041		
4.0	.259	.135	.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	.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	.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	.227	.227	.227	.194	.194	.194	.132	.132	.132	.076	.076	.076	.024	.024	.024	
1.0	.219	.192	.168	.188	.165	.145	.128	.114	.100	.074	.066	.058	.024	.021	.019	
2.0	.212	.169	.132	.181	.145	.114	.124	.100	.080	.072	.058	.047	.023	.019	.015	
3.0	.204	.151	.109	.175	.131	.095	.120	.091	.066	.069	.053	.039	.022	.017	.013	
4.0	.196	.138	.094	.168	.119	.082	.116	.083	.057	.067	.049	.034	.022	.016	.011	
5.0	.189	.128	.083	.162	.111	.072	.112	.077	.051	.065	.045	.030	.021	.015	.010	
6.0	.181	.120	.076	.156	.104	.066	.108	.073	.047	.062	.043	.028	.020	.014	.009	
7.0	.174	.113	.070	.150	.098	.061	.104	.069	.043	.060	.040	.026	.019	.013	.009	
8.0	.168	.107	.066	.144	.093	.057	.100	.065	.041	.058	.039	.024	.019	.013	.008	
9.0	.162	.102	.062	.139	.089	.054	.096	.062	.039	.056	.037	.023	.018	.012	.008	
10.0	.156	.098	.060	.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:120.5V I:0.1570A P:16.50W PF:0.8720 Freq:60.00Hz Lamp Flux:781x1 lm										
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 2700K					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	16.8	15.6	17.0	17.3
3H	16.6	18.0	17.0	18.3	18.7	17.1	18.5	17.5	18.9	19.2
4H	17.4	18.7	17.8	19.1	19.4	18.0	19.4	18.4	19.7	20.1
6H	18.1	19.4	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	20.9	21.3
12H	18.7	19.9	19.2	20.3	20.7	19.7	20.9	20.1	21.3	21.7
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	19.6	18.9	20.0	20.4	19.0	20.1	19.5	20.5	20.9
6H	19.4	20.3	19.8	20.7	21.2	20.0	21.0	20.5	21.4	21.9
8H	19.8	20.6	20.2	21.1	21.6	20.6	21.4	21.0	21.9	22.4
12H	20.2	21.0	20.7	21.5	22.0	21.1	21.9	21.6	22.4	22.9
8H 4H	18.9	19.8	19.4	20.3	20.8	19.4	20.3	19.9	20.7	21.2
6H	20.0	20.8	20.5	21.2	21.8	20.6	21.4	21.1	21.9	22.4
8H	20.6	21.2	21.1	21.7	22.3	21.3	21.9	21.8	22.5	23.0
12H	21.1	21.7	21.7	22.2	22.8	22.0	22.6	22.5	23.1	23.7
12H 4H	19.0	19.8	19.5	20.3	20.8	19.4	20.2	19.9	20.7	21.2
6H	20.2	20.8	20.7	21.3	21.9	20.7	21.4	21.3	21.9	22.5
8H	20.8	21.4	21.4	21.9	22.5	21.5	22.1	22.0	22.6	23.2
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, 781.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.9)

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:0.1570A P:16.50W PF:0.8720 Freq:60.00Hz Lamp Flux:781x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

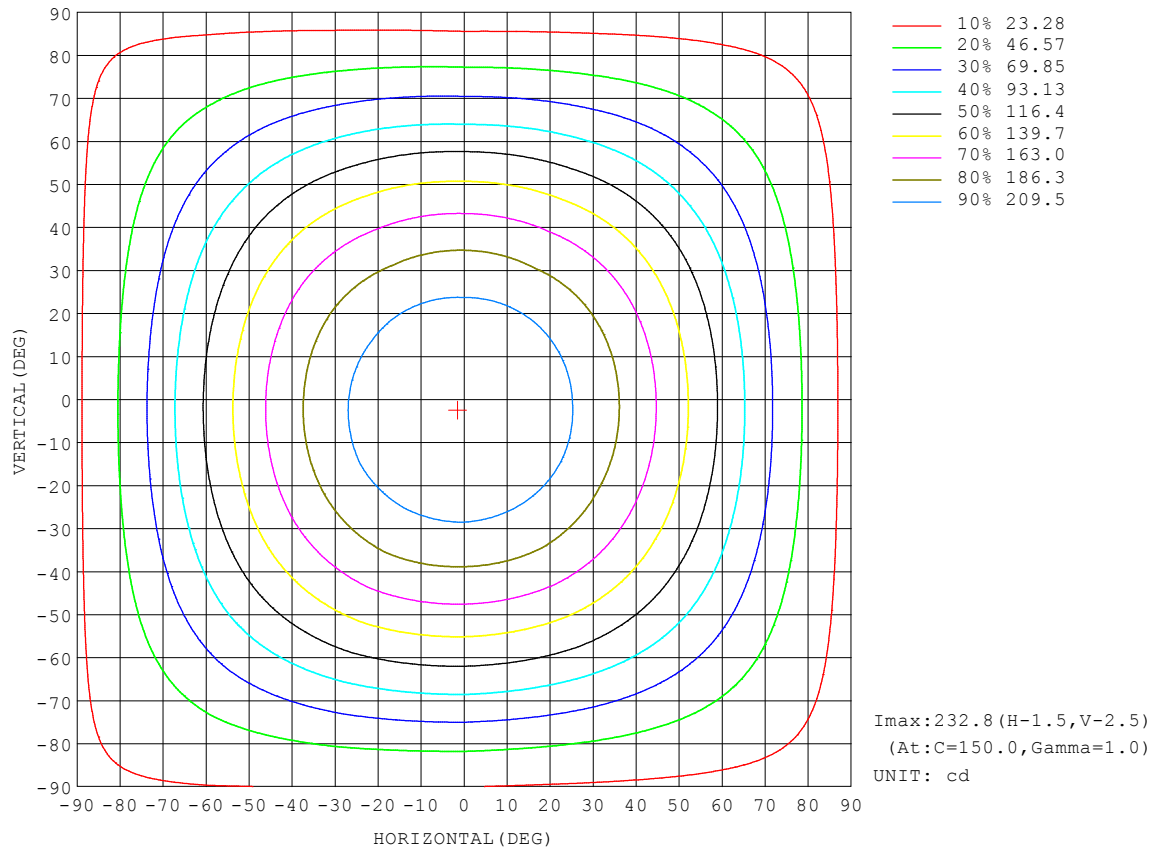
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	35	53	42	35	52	41	34	28
0.80	64	52	44	63	51	44	60	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	77	72	63
2.50	95	86	80	93	85	79	88	82	76	67
3.00	99	91	85	96	89	83	91	86	81	71
4.00	103	96	91	100	94	89	95	90	86	76
5.00	106	100	95	103	98	93	97	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:120.5V I:0.1570A P:16.50W PF:0.8720 Freq:60.00Hz Lamp Flux:781x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

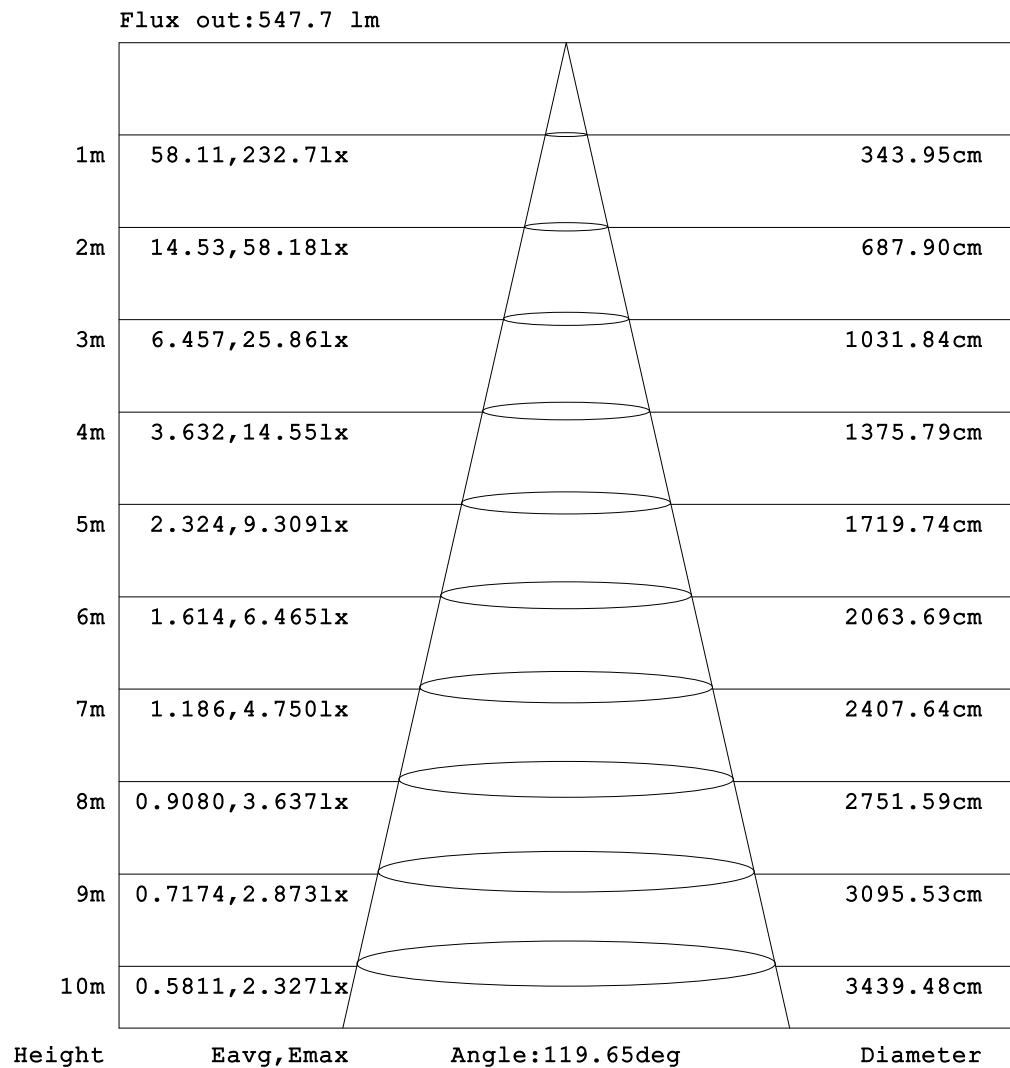


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-05-04

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:120.5V I:0.1570A P:16.50W PF:0.8720 Freq:60.00Hz Lamp Flux:781x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

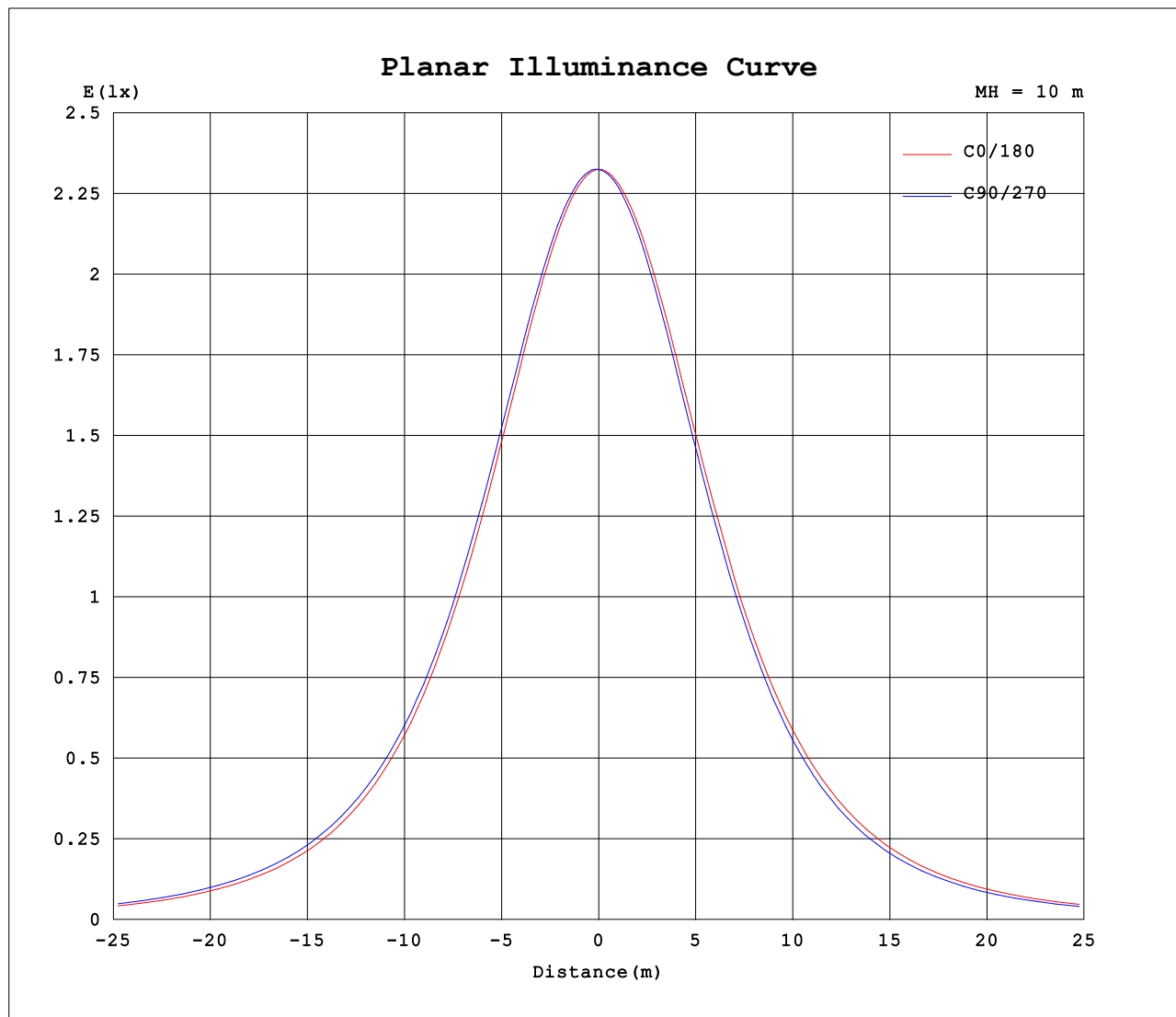


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.5V I:0.1570A P:16.50W PF:0.8720 Freq:60.00Hz Lamp Flux:781x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 2700K	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	233	232	232	232	233	233	233	232	232	232	233	233							
5	231	232	232	232	233	233	233	232	231	231	231	231							
10	229	229	230	231	231	231	230	229	228	227	228	228							
15	224	226	227	227	228	227	226	224	223	222	223	223							
20	218	220	221	222	222	222	220	218	217	216	216	217							
25	210	212	214	216	216	215	213	210	209	207	208	208							
30	200	203	205	207	207	206	204	201	199	197	197	198							
35	189	191	194	197	197	196	192	190	186	185	184	187							
40	176	179	182	184	185	183	180	177	173	172	171	174							
45	162	165	169	170	172	169	166	163	159	158	157	160							
50	146	150	154	156	157	155	152	148	144	142	141	144							
55	130	133	138	140	141	139	136	132	127	125	125	127							
60	113	116	121	124	125	122	119	114	110	108	107	110							
65	94.1	98.4	103	106	107	105	101	95.9	92.3	89.2	89.7	91.2							
70	76.1	80.4	84.6	88.1	88.4	86.8	83.2	78.0	74.4	71.3	71.8	73.3							
75	58.5	62.7	66.7	70.1	70.4	68.9	65.3	60.3	56.7	53.9	54.2	55.8							
80	42.0	45.8	49.5	52.6	53.0	51.5	48.2	43.5	40.4	37.8	38.2	39.6							
85	27.7	30.9	33.9	36.7	37.1	35.8	32.9	28.9	26.3	24.4	24.8	25.9							
90	17.9	19.5	21.6	23.6	23.9	22.9	21.0	18.4	17.0	16.0	16.5	17.2							
95	13.0	13.8	14.8	15.9	16.1	15.4	14.5	13.2	12.4	12.1	12.4	12.8							
100	10.0	10.8	11.4	12.0	12.0	11.5	10.7	9.91	9.50	8.89	9.62	10.1							
105	6.73	8.26	8.94	8.69	8.89	8.75	7.08	7.25	6.97	5.99	7.24	7.69							
110	4.94	5.98	6.61	5.84	6.27	6.17	5.17	5.25	4.93	4.39	5.29	5.63							
115	3.49	4.20	4.60	4.16	4.30	4.07	3.77	3.74	3.50	3.38	3.74	3.93							
120	2.58	3.00	3.12	2.97	2.84	2.74	3.00	3.09	3.10	3.07	2.92	2.87							
125	2.43	2.60	2.67	2.66	2.51	2.36	2.93	3.08	3.13	3.05	2.92	2.77							
130	2.43	2.63	2.69	2.70	2.55	2.38	2.94	3.12	3.16	3.08	2.96	2.77							
135	2.49	2.68	2.77	2.78	2.63	2.47	2.98	3.13	3.20	3.13	3.03	2.84							
140	2.57	2.75	2.86	2.87	2.74	2.60	3.03	3.16	3.24	3.18	3.11	2.93							
145	2.66	2.82	2.94	2.95	2.86	2.66	3.09	3.19	3.28	3.23	3.17	2.98							
150	2.76	2.90	3.02	3.04	2.92	2.66	3.15	3.23	3.32	3.29	3.21	2.95							
155	2.87	3.00	3.08	3.12	2.98	2.73	3.22	3.29	3.34	3.34	3.23	3.02							
160	2.97	3.09	3.10	3.21	2.99	2.83	3.30	3.34	3.36	3.35	3.17	3.09							
165	3.09	3.18	3.18	3.23	2.90	2.91	3.33	3.36	3.36	3.33	3.12	3.06							
170	3.18	3.24	3.23	2.96	2.97	2.98	3.25	3.35	3.33	3.27	3.07	3.04							
175	3.08	3.09	3.04	3.03	2.98	2.99	3.14	3.14	3.10	3.11	3.07	3.04							
180	3.12	3.12	3.09	3.09	3.05	3.04	3.13	3.12	3.09	3.09	3.05	3.04							

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: