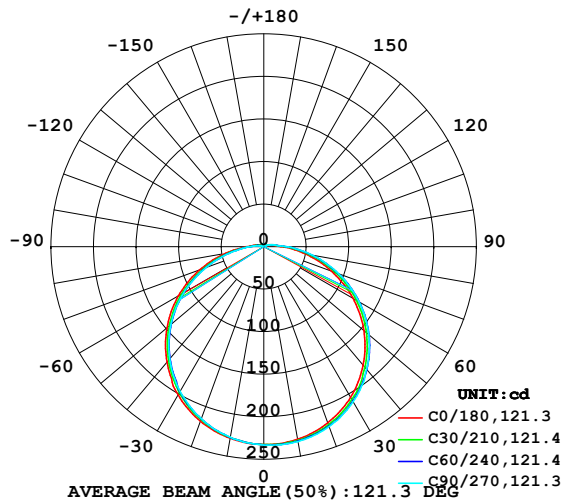


LUMINAIRE PHOTOMETRIC TEST REPORT

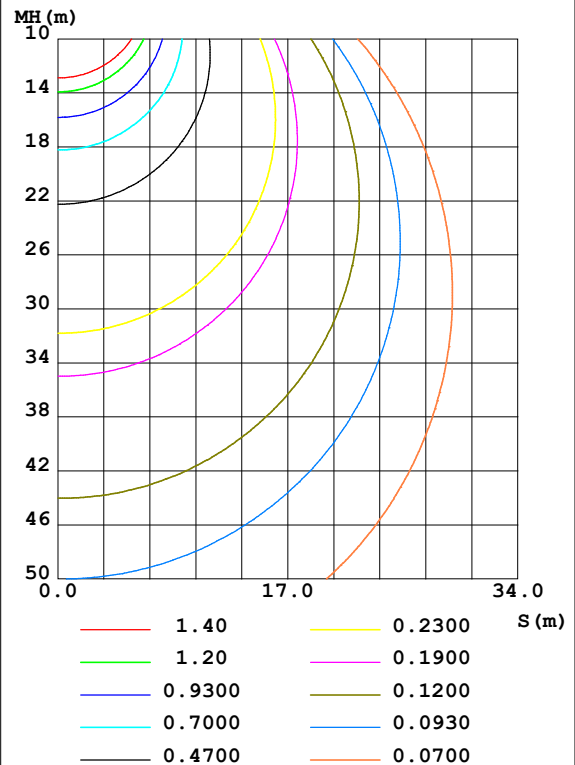
Test:U:120.5V I:0.1550A P:16.50W PF:0.8810 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (3000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 48.33 lm/W			
MODEL		Imax(cd)	233.8	S/MH(C0/180)	1.29
NOMINAL POWER(W)		LOR(%)	107.8	S/MH(C90/270)	1.26
RATED VOLTAGE(V)		TOTAL FLUX(lm)	797.52	η UP,DN(C0-180)	2.8,53.7
NOMINAL FLUX(lm)	739.877	CIE CLASS	DIRECT	η UP,DN(C180-360)	2.4,48.9
LAMPS INSIDE	1	η up(%)	5.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	102.6	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	229.8	231.5	232.6	231.6	228.6	227.7	227.5	229.2	0- 10	22.10	22.10	2.77,2.99
20	220.3	223.5	225.0	222.8	218.3	215.8	215.2	218.1	10- 20	63.76	85.86	10.8,11.6
30	204.3	208.5	210.3	207.1	201.3	197.8	196.7	200.6	20- 30	97.98	183.8	23.1,24.8
40	181.9	186.7	188.1	184.5	177.1	172.9	172.2	176.4	30- 40	120.4	304.3	38.2,41.1
50	153.7	159.5	161.2	156.6	148.6	143.6	142.7	147.6	40- 50	128.5	432.7	54.3,58.5
60	121.2	127.6	129.2	124.2	115.9	110.2	109.0	114.4	50- 60	121.5	554.2	69.5,74.9
70	84.84	91.95	93.89	88.28	80.21	74.05	72.33	78.26	60- 70	100.1	654.3	82,88.4
80	49.44	55.89	57.80	52.57	45.29	39.92	38.33	43.47	70- 80	68.81	723.1	90.7,97.7
90	21.41	25.40	26.66	23.18	19.66	16.88	16.02	18.36	80- 90	36.16	759.3	95.2,103
100	11.10	12.33	12.49	11.55	10.64	8.955	8.193	9.774	90-100	16.15	775.4	97.2,105
110	5.292	7.038	6.520	6.631	5.070	4.089	3.564	4.972	100-110	8.338	783.8	98.3,106
120	2.904	3.307	3.371	3.391	3.208	2.898	3.131	3.147	110-120	4.104	787.9	98.8,106
130	2.822	2.487	2.643	2.792	3.298	2.907	3.160	3.205	120-130	2.631	790.5	99.1,107
140	2.980	2.561	2.758	2.965	3.411	3.081	3.292	3.290	130-140	2.281	792.8	99.4,107
150	3.192	2.827	2.932	3.120	3.523	3.335	3.443	3.457	140-150	1.955	794.8	99.7,107
160	3.414	3.094	3.127	3.311	3.587	3.291	3.632	3.568	150-160	1.527	796.3	99.8,108
170	3.440	2.958	3.018	3.208	3.304	3.092	3.093	3.411	160-170	0.9391	797.2	100,108
180	3.128	3.086	3.070	3.028	3.128	3.068	3.073	3.051	170-180	0.2962	797.5	100,108
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 368.43 lm

%lum = 46.2%

%lamp = 49.8%

Conical surface Flux(120deg): 554.19 lm

%lum = 69.5%

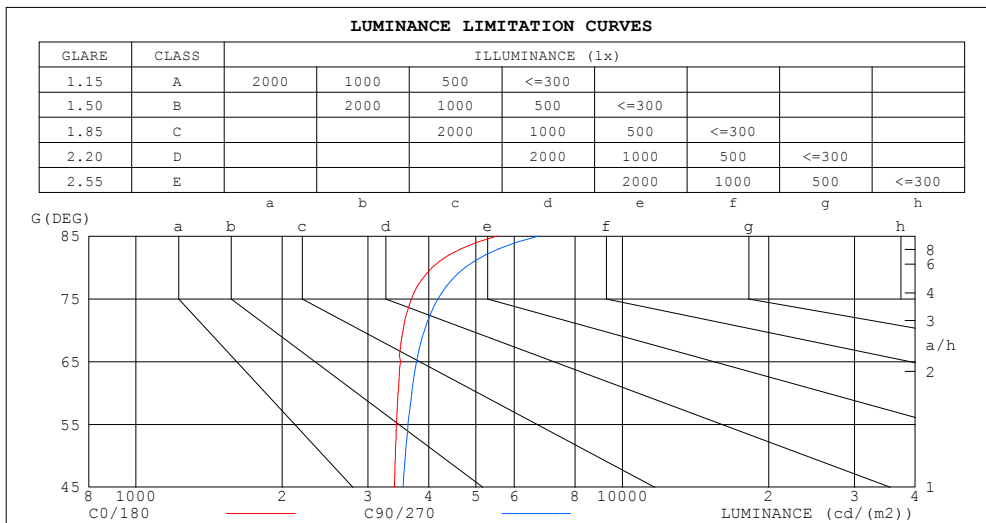
%lamp = 74.9%

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:0.1550A P:16.50W PF:0.8810 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 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	5534	6734
80	4068	4755
75	3686	4180
70	3544	3922
65	3503	3777
60	3462	3692
55	3436	3628
50	3416	3582
45	3402	3543

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:0.1550A P:16.50W PF:0.8810 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 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	.376	.214	.068	.367	.209	.066	.349	.200	.064	.333	.192	.062	.318	.185	.059		
2.0	.340	.186	.057	.331	.182	.056	.316	.176	.055	.301	.169	.053	.288	.163	.051		
3.0	.308	.164	.049	.301	.161	.048	.287	.155	.047	.274	.150	.046	.262	.145	.045		
4.0	.281	.146	.043	.274	.143	.042	.262	.139	.041	.250	.134	.041	.239	.130	.040		
5.0	.257	.131	.038	.251	.129	.038	.240	.125	.037	.230	.121	.036	.220	.118	.035		
6.0	.237	.119	.034	.232	.117	.034	.222	.114	.033	.212	.110	.032	.204	.107	.032		
7.0	.220	.109	.031	.215	.107	.031	.206	.104	.030	.197	.101	.029	.189	.098	.029		
8.0	.204	.100	.028	.200	.099	.028	.192	.096	.027	.184	.093	.027	.177	.091	.026		
9.0	.191	.092	.026	.187	.091	.026	.180	.089	.025	.173	.087	.025	.166	.084	.024		
10.0	.179	.086	.024	.176	.085	.024	.169	.083	.023	.162	.081	.023	.156	.079	.023		

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	.245	.245	.245	.209	.209	.209	.143	.143	.143	.082	.082	.082	.026	.026	.026	
1.0	.237	.208	.181	.203	.178	.156	.139	.123	.108	.080	.071	.063	.026	.023	.020	
2.0	.229	.182	.143	.196	.157	.123	.134	.108	.086	.077	.063	.050	.025	.020	.016	
3.0	.221	.163	.118	.189	.141	.102	.130	.098	.072	.075	.057	.042	.024	.019	.014	
4.0	.212	.149	.101	.182	.129	.088	.125	.090	.062	.072	.053	.037	.023	.017	.012	
5.0	.204	.138	.090	.175	.120	.078	.121	.084	.055	.070	.049	.033	.023	.016	.011	
6.0	.196	.130	.082	.169	.112	.071	.116	.079	.050	.068	.046	.030	.022	.015	.010	
7.0	.189	.122	.076	.162	.106	.066	.112	.074	.047	.065	.044	.028	.021	.014	.009	
8.0	.182	.116	.071	.156	.101	.062	.108	.071	.044	.063	.042	.026	.020	.014	.009	
9.0	.175	.111	.068	.151	.096	.059	.104	.068	.042	.061	.040	.025	.020	.013	.008	
10.0	.168	.106	.065	.145	.092	.057	.101	.065	.040	.059	.038	.024	.019	.013	.008	

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:0.1550A P:16.50W PF:0.8810 Freq:60.00Hz Lamp Flux:739.877x1 lm										
NAME: AFX-DCF12-17DOB-95C-120D-BL1 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	18.1	19.7	18.5	19.9	20.3	18.4	19.9	18.8	20.2	20.5
3H	20.0	21.4	20.4	21.7	22.1	20.4	21.8	20.7	22.1	22.4
4H	20.9	22.2	21.2	22.5	22.9	21.3	22.7	21.7	23.0	23.4
6H	21.7	22.9	22.1	23.3	23.7	22.2	23.5	22.6	23.8	24.2
8H	22.0	23.3	22.5	23.6	24.0	22.7	23.9	23.1	24.3	24.6
12H	22.4	23.6	22.8	24.0	24.4	23.1	24.3	23.5	24.7	25.1
4H 2H	18.9	20.2	19.3	20.6	20.9	19.1	20.4	19.5	20.8	21.1
3H	21.0	22.1	21.4	22.5	22.9	21.3	22.5	21.7	22.8	23.2
4H	22.0	23.1	22.4	23.5	23.9	22.4	23.5	22.8	23.9	24.3
6H	23.0	23.9	23.4	24.4	24.8	23.5	24.4	23.9	24.9	25.3
8H	23.4	24.3	23.9	24.8	25.3	24.0	24.9	24.5	25.3	25.8
12H	23.9	24.7	24.4	25.2	25.7	24.5	25.4	25.0	25.8	26.4
8H 4H	22.5	23.4	22.9	23.8	24.3	22.8	23.7	23.3	24.1	24.6
6H	23.7	24.4	24.2	24.9	25.4	24.1	24.9	24.6	25.3	25.9
8H	24.3	25.0	24.8	25.5	26.0	24.8	25.5	25.3	26.0	26.5
12H	24.9	25.5	25.5	26.1	26.6	25.5	26.1	26.1	26.7	27.2
12H 4H	22.5	23.4	23.0	23.8	24.3	22.8	23.7	23.3	24.1	24.7
6H	23.8	24.5	24.4	25.0	25.6	24.2	24.9	24.8	25.4	26.0
8H	24.6	25.1	25.1	25.7	26.3	25.0	25.6	25.6	26.1	26.7
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	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 739.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.0)

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:0.1550A P:16.50W PF:0.8810 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (3000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

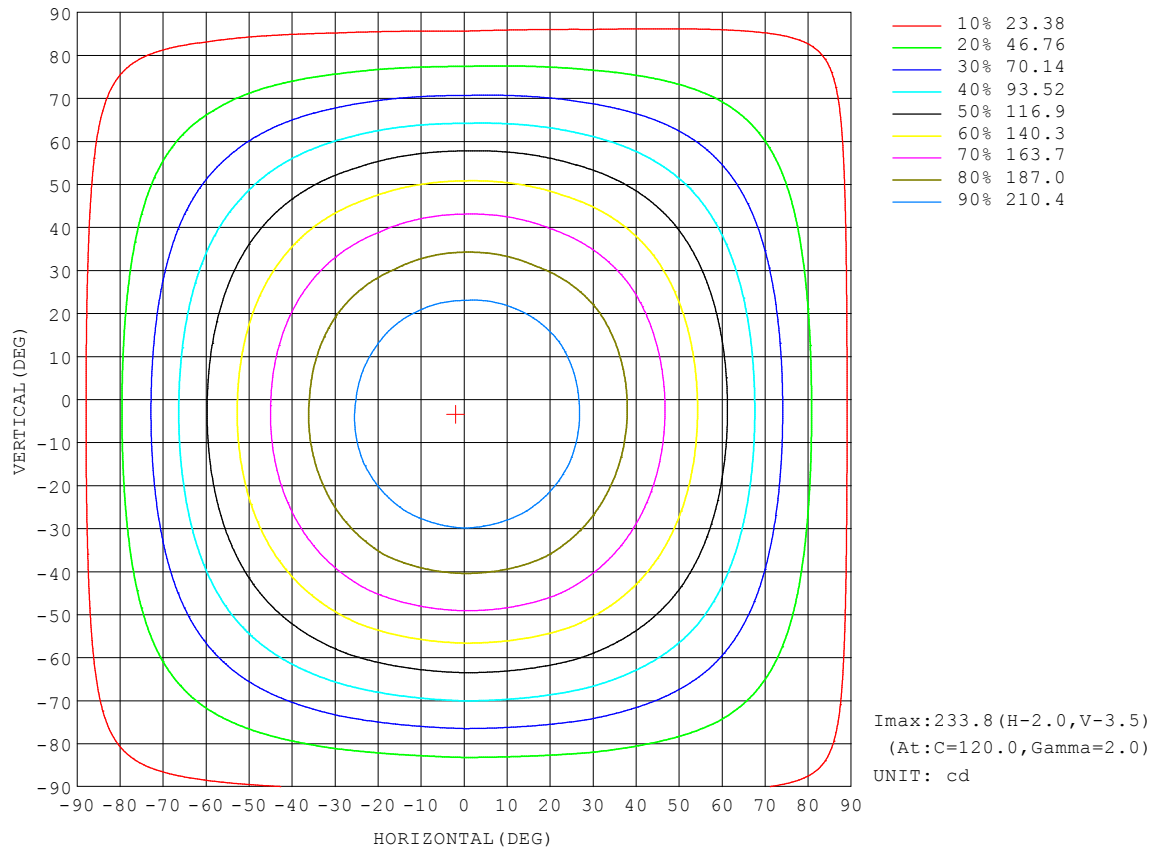
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	45	37	57	45	37	55	44	37	30
0.80	68	55	47	67	55	47	65	54	46	38
1.00	77	64	56	76	64	55	73	65	55	46
1.25	85	72	64	83	71	63	80	70	62	54
1.50	90	78	70	88	77	69	84	75	68	59
2.00	98	87	80	95	86	79	91	83	77	67
2.50	102	93	85	100	91	84	95	88	82	71
3.00	106	98	91	103	96	89	98	92	87	76
4.00	111	104	98	108	101	96	102	97	93	81
5.00	114	108	102	111	105	100	105	100	96	85
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:0.1550A P:16.50W PF:0.8810 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (3000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

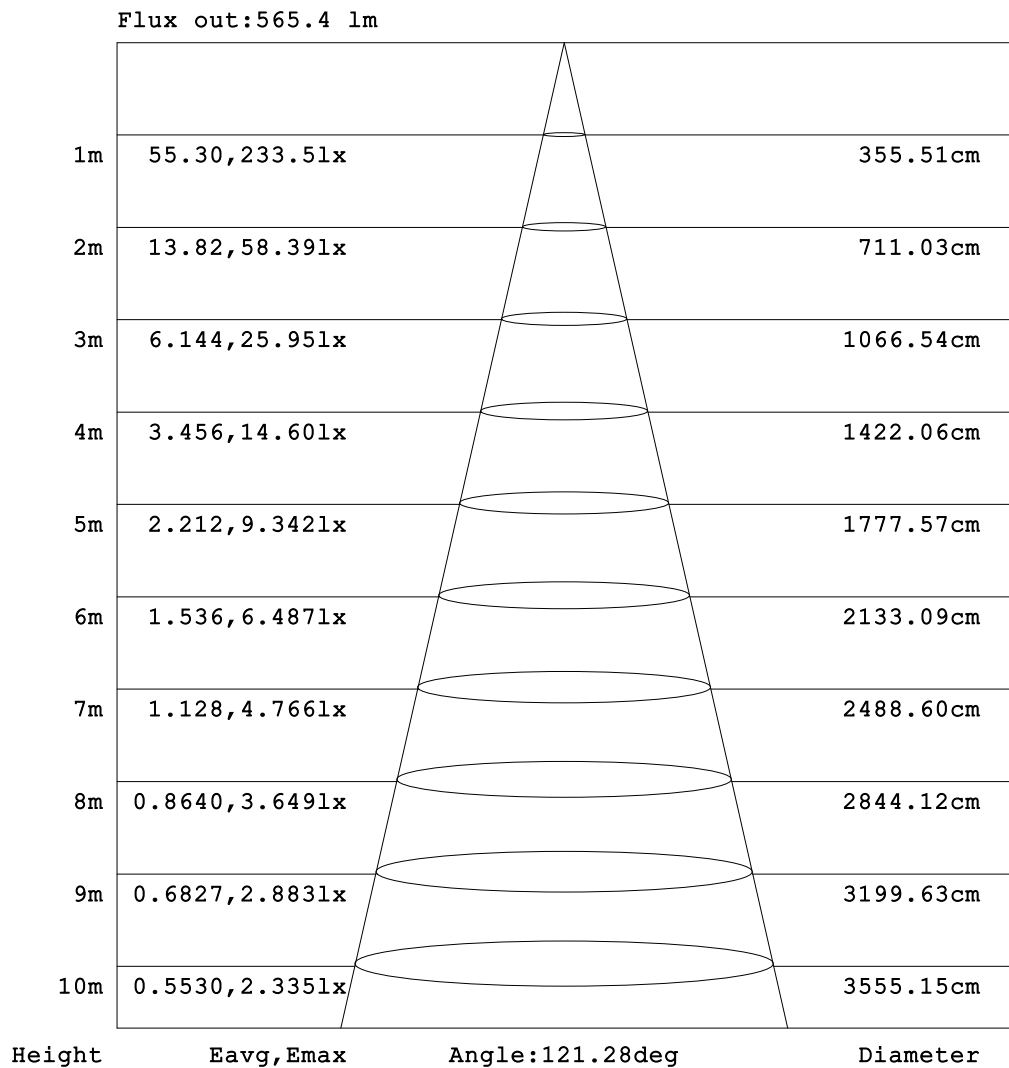


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-05-02

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:0.1550A P:16.50W PF:0.8810 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (3000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

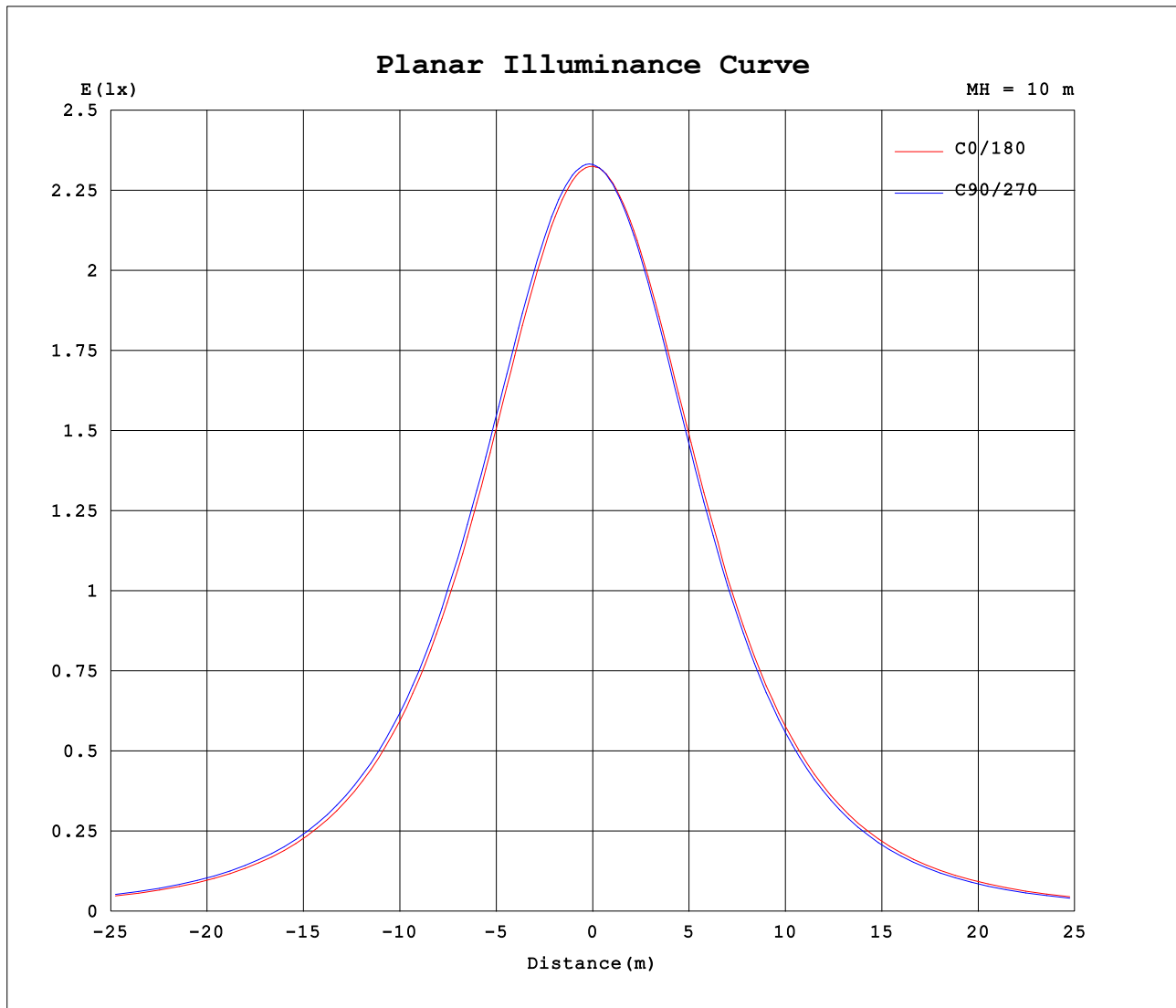


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.1550A P:16.50W PF:0.8810 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 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	233	233	233	233	233	234	233	233	233	233	233	234							
5	232	233	233	234	234	233	231	231	231	231	232	233							
10	230	231	232	233	232	231	229	228	228	228	228	230							
15	226	228	229	230	229	227	224	223	222	222	224	225							
20	220	223	224	225	224	222	218	216	215	215	217	219							
25	213	216	218	219	217	214	211	208	207	207	209	211							
30	204	207	210	210	209	206	201	199	197	197	199	202							
35	194	198	200	201	199	195	189	187	184	185	186	191							
40	182	185	188	188	187	182	177	174	172	172	174	179							
45	168	172	176	175	174	169	163	160	157	158	160	165							
50	154	158	161	161	159	154	149	145	142	143	145	150							
55	138	142	146	146	144	138	133	129	126	126	129	134							
60	121	126	130	129	127	121	116	112	109	109	112	117							
65	104	108	112	112	109	104	98.3	93.2	90.9	90.3	93.8	98.8							
70	84.8	90.3	93.6	93.9	90.8	85.8	80.2	75.2	72.9	72.3	75.7	80.8							
75	66.8	71.9	75.2	75.7	72.6	67.5	62.3	57.6	55.3	54.7	58.0	62.9							
80	49.4	54.5	57.3	57.8	54.8	50.3	45.3	41.0	38.9	38.3	41.2	45.7							
85	33.8	38.0	40.6	41.1	38.3	34.2	30.3	26.8	25.1	24.6	26.9	30.6							
90	21.4	24.5	26.3	26.7	24.4	21.9	19.7	17.5	16.3	16.0	17.3	19.5							
95	14.5	16.1	17.0	16.9	15.8	14.8	14.0	12.7	11.8	11.4	12.3	13.7							
100	11.1	12.1	12.6	12.5	11.9	11.2	10.6	9.40	8.51	8.19	9.13	10.4							
105	7.64	9.19	9.79	9.55	9.24	8.66	7.54	6.61	5.70	5.06	6.53	7.69							
110	5.29	6.69	7.39	6.52	6.82	6.45	5.07	4.46	3.72	3.56	4.50	5.45							
115	3.78	4.72	5.24	4.72	4.93	4.58	3.79	3.07	2.93	3.15	3.26	3.88							
120	2.90	3.14	3.47	3.37	3.55	3.23	3.21	2.92	2.88	3.13	3.14	3.15							
125	2.79	2.52	2.51	2.73	2.74	2.81	3.24	2.88	2.88	3.10	3.17	3.13							
130	2.82	2.51	2.46	2.64	2.74	2.84	3.30	2.86	2.95	3.16	3.24	3.17							
135	2.90	2.54	2.46	2.69	2.81	2.92	3.35	2.87	3.05	3.24	3.29	3.23							
140	2.98	2.63	2.49	2.76	2.88	3.05	3.41	2.99	3.17	3.29	3.28	3.30							
145	3.08	2.76	2.61	2.83	2.97	3.09	3.47	3.18	3.29	3.34	3.44	3.38							
150	3.19	2.92	2.74	2.93	3.06	3.18	3.52	3.27	3.40	3.44	3.54	3.38							
155	3.31	3.07	2.92	3.03	3.15	3.27	3.57	3.23	3.49	3.58	3.58	3.47							
160	3.41	3.24	2.95	3.13	3.25	3.37	3.59	3.24	3.34	3.63	3.53	3.60							
165	3.49	3.22	2.90	3.14	3.31	3.39	3.47	3.23	3.05	3.67	3.56	3.57							
170	3.44	2.99	2.93	3.02	3.19	3.22	3.30	3.12	3.07	3.09	3.46	3.36							
175	3.11	3.05	3.02	3.01	2.98	2.99	3.13	3.05	3.07	3.09	3.07	3.12							
180	3.13	3.10	3.08	3.07	3.02	3.03	3.13	3.08	3.05	3.07	3.05	3.05							

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: