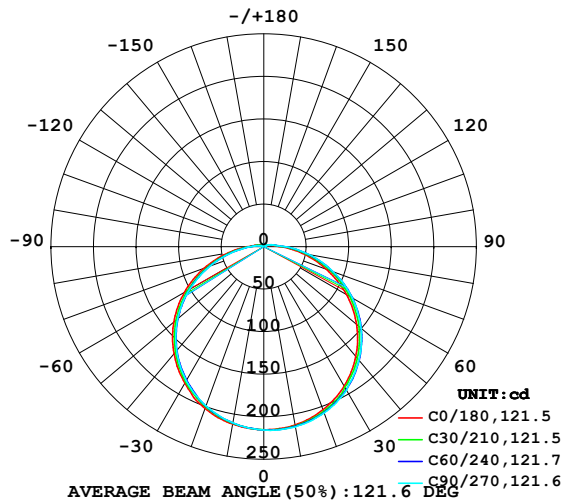


LUMINAIRE PHOTOMETRIC TEST REPORT

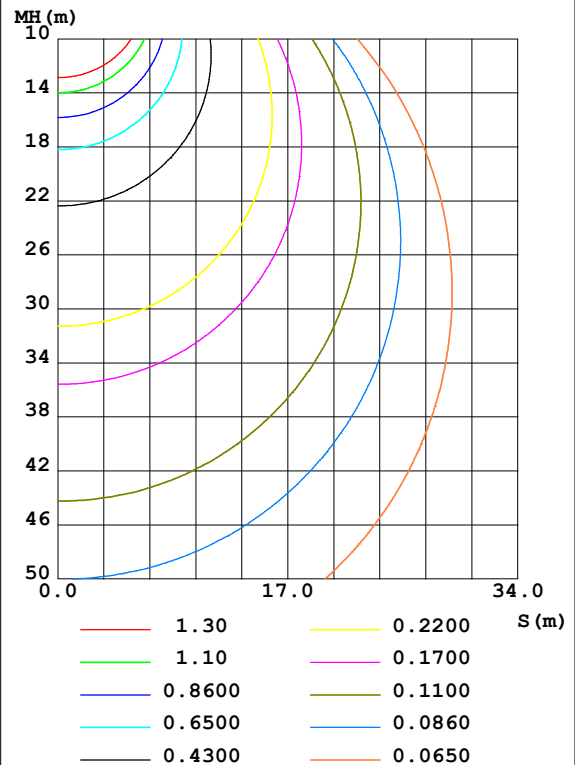
Test:U:120.5V I:0.1570A P:16.50W PF:0.8710 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (2700K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 44.84 lm/W			
MODEL		Imax(cd)	216.1	S/MH(C0/180)	1.28
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)		TOTAL FLUX(lm)	739.88	η UP,DN(C0-180)	2.7,49.7
NOMINAL FLUX(lm)	739.877	CIE CLASS	DIRECT	η UP,DN(C180-360)	2.2,45.4
LAMPS INSIDE	1	η up(%)	4.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	95.1	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	212.7	214.1	214.9	213.9	211.7	210.6	210.3	211.7	0- 10	20.43	20.43	2.76, 2.76
20	204.0	206.7	208.0	205.9	202.3	199.8	199.0	201.5	10- 20	58.96	79.39	10.7, 10.7
30	189.1	192.4	194.9	191.0	185.5	182.5	182.2	184.9	20- 30	90.57	170.0	23, 23
40	168.4	172.8	174.1	170.6	164.3	160.2	159.5	163.3	30- 40	111.3	281.3	38, 38
50	142.5	147.8	149.2	145.0	138.1	133.2	132.2	136.7	40- 50	119.0	400.3	54.1, 54.1
60	112.3	118.4	119.9	115.1	107.8	102.4	100.9	106.1	50- 60	112.6	512.9	69.3, 69.3
70	78.77	85.33	87.15	81.91	74.84	69.01	67.37	72.78	60- 70	92.92	605.8	81.9, 81.9
80	46.08	51.99	53.81	48.86	42.49	37.46	35.97	40.67	70- 80	64.08	669.9	90.5, 90.5
90	20.10	23.87	24.99	21.71	18.65	16.08	15.26	17.35	80- 90	33.88	703.8	95.1, 95.1
100	10.49	11.70	11.82	11.00	10.22	8.623	7.833	9.216	90-100	15.31	719.1	97.2, 97.2
110	4.926	6.568	6.067	6.310	4.861	3.962	3.374	4.639	100-110	7.912	727.0	98.3, 98.3
120	2.750	2.994	3.126	3.194	2.990	2.707	2.932	2.929	110-120	3.842	730.8	98.8, 98.8
130	2.703	2.360	2.495	2.660	3.067	2.712	2.967	2.977	120-130	2.465	733.3	99.1, 99.1
140	2.835	2.430	2.604	2.792	3.183	2.884	3.025	3.077	130-140	2.145	735.4	99.4, 99.4
150	3.038	2.679	2.762	2.962	3.295	3.123	3.276	3.231	140-150	1.841	737.3	99.6, 99.6
160	3.237	2.929	2.964	3.136	3.336	3.092	3.414	3.363	150-160	1.437	738.7	99.8, 99.8
170	3.260	2.799	2.835	3.044	3.098	2.917	2.916	3.194	160-170	0.8839	739.6	100, 100
180	2.935	2.906	2.887	2.880	2.932	2.912	2.916	2.874	170-180	0.2802	739.9	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 340.7 lm

%lum = 46.0%

%lamp = 46.0%

Conical surface Flux(120deg): 512.88 lm

%lum = 69.3%

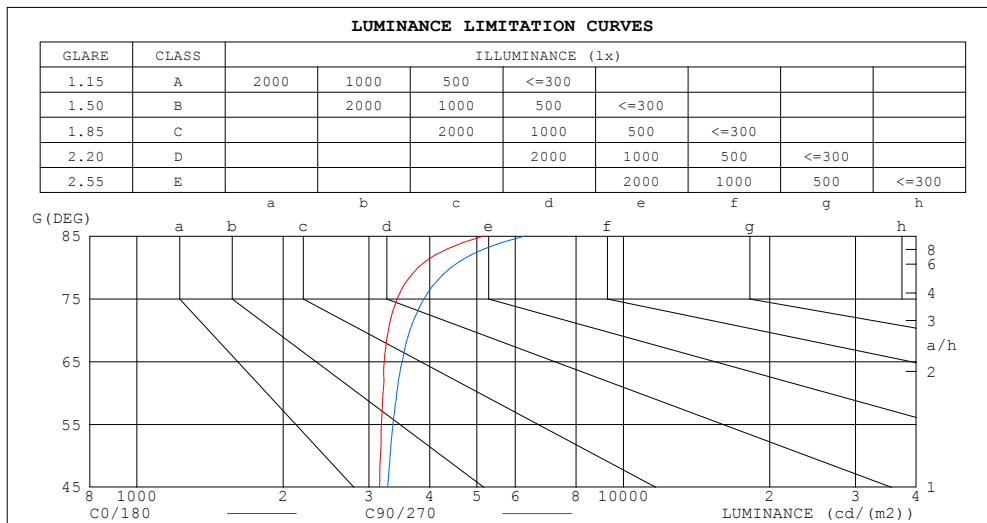
%lamp = 69.3%

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:0.1570A P:16.50W PF:0.8710 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (2700K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5171	6284
80	3791	4427
75	3429	3894
70	3290	3640
65	3226	3510
60	3210	3424
55	3185	3360
50	3168	3317
45	3154	3278

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:0.1570A P:16.50W PF:0.8710 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 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	.349	.199	.063	.341	.194	.062	.325	.186	.059	.310	.179	.057	.296	.172	.055		
2.0	.315	.173	.053	.308	.169	.052	.293	.163	.051	.280	.157	.049	.268	.151	.048		
3.0	.286	.152	.046	.279	.149	.045	.266	.144	.044	.254	.139	.043	.243	.135	.042		
4.0	.261	.135	.040	.254	.133	.039	.243	.129	.038	.232	.125	.038	.222	.121	.037		
5.0	.239	.122	.035	.233	.120	.035	.223	.116	.034	.213	.113	.033	.204	.109	.033		
6.0	.220	.110	.032	.215	.109	.031	.206	.105	.031	.197	.102	.030	.189	.099	.030		
7.0	.204	.101	.029	.199	.099	.028	.191	.097	.028	.183	.094	.027	.176	.091	.027		
8.0	.190	.093	.026	.186	.091	.026	.178	.089	.025	.171	.087	.025	.164	.084	.025		
9.0	.177	.086	.024	.174	.085	.024	.167	.082	.023	.160	.080	.023	.154	.078	.023		
10.0	.166	.080	.022	.163	.079	.022	.157	.077	.022	.151	.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	.228	.228	.228	.195	.195	.195	.133	.133	.133	.076	.076	.076	.024	.024	.024	
1.0	.221	.193	.169	.189	.166	.145	.129	.114	.100	.074	.066	.058	.024	.021	.019	
2.0	.213	.170	.133	.183	.146	.115	.125	.101	.080	.072	.059	.047	.023	.019	.015	
3.0	.206	.152	.110	.176	.131	.095	.121	.091	.067	.070	.053	.039	.022	.017	.013	
4.0	.198	.139	.095	.170	.120	.082	.117	.084	.058	.068	.049	.034	.022	.016	.011	
5.0	.190	.129	.084	.163	.112	.073	.112	.078	.052	.065	.046	.031	.021	.015	.010	
6.0	.183	.121	.077	.157	.105	.067	.108	.073	.047	.063	.043	.028	.020	.014	.009	
7.0	.176	.114	.071	.151	.099	.062	.104	.069	.044	.061	.041	.026	.020	.013	.009	
8.0	.169	.108	.067	.146	.094	.058	.101	.066	.041	.059	.039	.025	.019	.013	.008	
9.0	.163	.104	.063	.140	.090	.055	.097	.063	.039	.057	.037	.023	.018	.012	.008	
10.0	.157	.099	.061	.135	.086	.053	.094	.061	.038	.055	.036	.022	.018	.012	.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:0.1570A P:16.50W PF:0.8710 Freq:60.00Hz Lamp Flux:739.877x1 lm										
NAME: AFX-DCF12-17DOB-95C-120D-BL1 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	17.9	19.4	18.2	19.7	20.0	18.1	19.7	18.5	20.0	20.3
3H	19.7	21.1	20.1	21.5	21.8	20.1	21.5	20.5	21.8	22.2
4H	20.6	21.9	21.0	22.3	22.6	21.1	22.4	21.4	22.7	23.1
6H	21.4	22.7	21.8	23.0	23.4	22.0	23.2	22.4	23.6	24.0
8H	21.8	23.0	22.2	23.4	23.8	22.4	23.6	22.8	24.0	24.4
12H	22.2	23.3	22.6	23.7	24.1	22.9	24.0	23.3	24.4	24.8
4H 2H	18.6	20.0	19.0	20.3	20.7	18.8	20.2	19.2	20.5	20.9
3H	20.7	21.9	21.1	22.3	22.7	21.0	22.2	21.4	22.6	23.0
4H	21.7	22.8	22.2	23.2	23.7	22.1	23.2	22.6	23.6	24.0
6H	22.7	23.7	23.2	24.1	24.6	23.2	24.2	23.7	24.6	25.1
8H	23.2	24.1	23.7	24.5	25.0	23.7	24.6	24.2	25.1	25.6
12H	23.6	24.5	24.1	24.9	25.5	24.3	25.1	24.8	25.6	26.1
8H 4H	22.2	23.1	22.7	23.5	24.0	22.5	23.4	23.0	23.9	24.4
6H	23.4	24.2	23.9	24.7	25.2	23.8	24.6	24.4	25.1	25.6
8H	24.0	24.7	24.6	25.2	25.8	24.5	25.2	25.1	25.7	26.3
12H	24.7	25.3	25.2	25.8	26.4	25.3	25.9	25.8	26.4	27.0
12H 4H	22.3	23.1	22.8	23.6	24.1	22.6	23.4	23.1	23.9	24.4
6H	23.6	24.3	24.1	24.8	25.3	24.0	24.7	24.5	25.2	25.7
8H	24.3	24.9	24.9	25.4	26.0	24.8	25.4	25.3	25.9	26.5
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:0.1570A P:16.50W PF:0.8710 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (2700K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

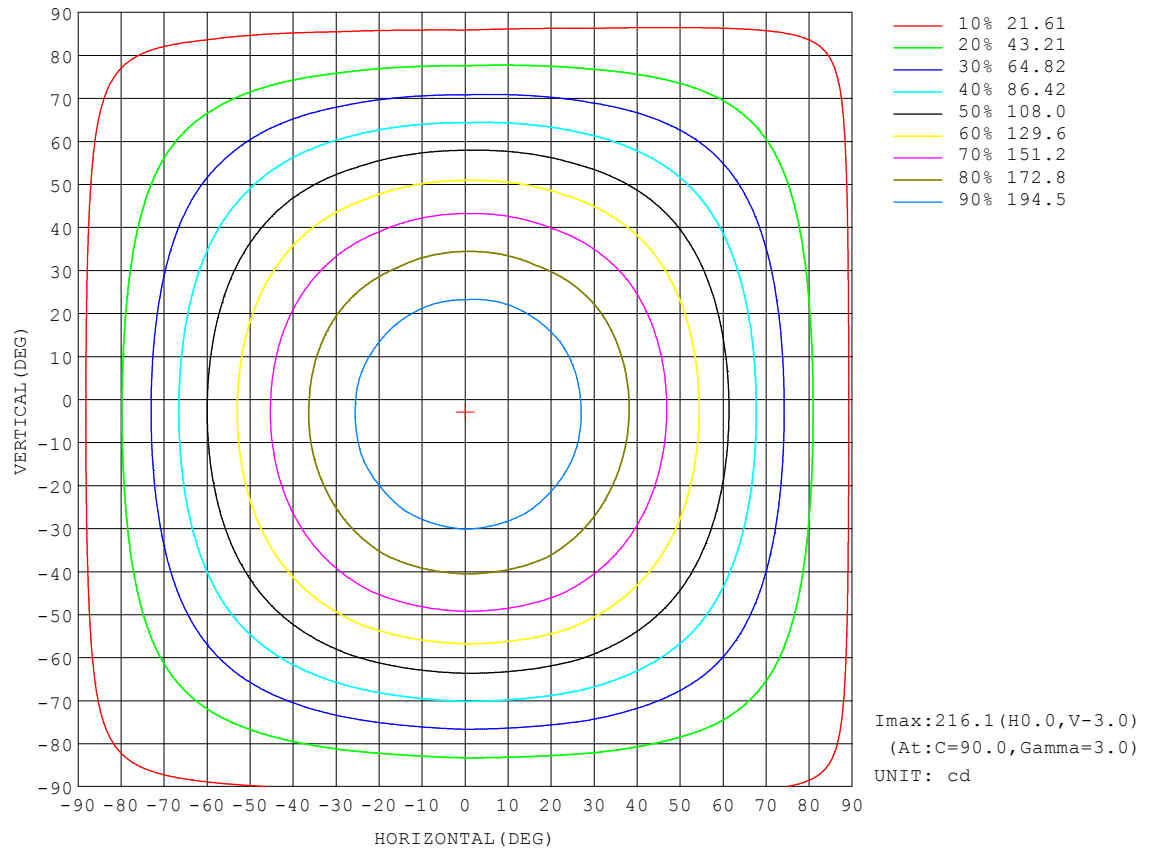
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	34	53	41	34	51	41	34	27
0.80	63	51	43	62	51	43	60	50	43	35
1.00	71	60	52	70	59	51	67	60	51	43
1.25	79	67	59	77	66	59	74	64	58	50
1.50	84	73	65	82	72	64	78	69	63	54
2.00	91	81	74	89	80	73	84	77	71	62
2.50	95	86	79	92	84	78	88	81	76	66
3.00	98	90	84	96	89	83	91	85	80	70
4.00	103	96	91	100	94	89	95	90	86	75
5.00	105	100	95	103	97	93	97	93	89	78
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:0.1570A P:16.50W PF:0.8710 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (2700K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

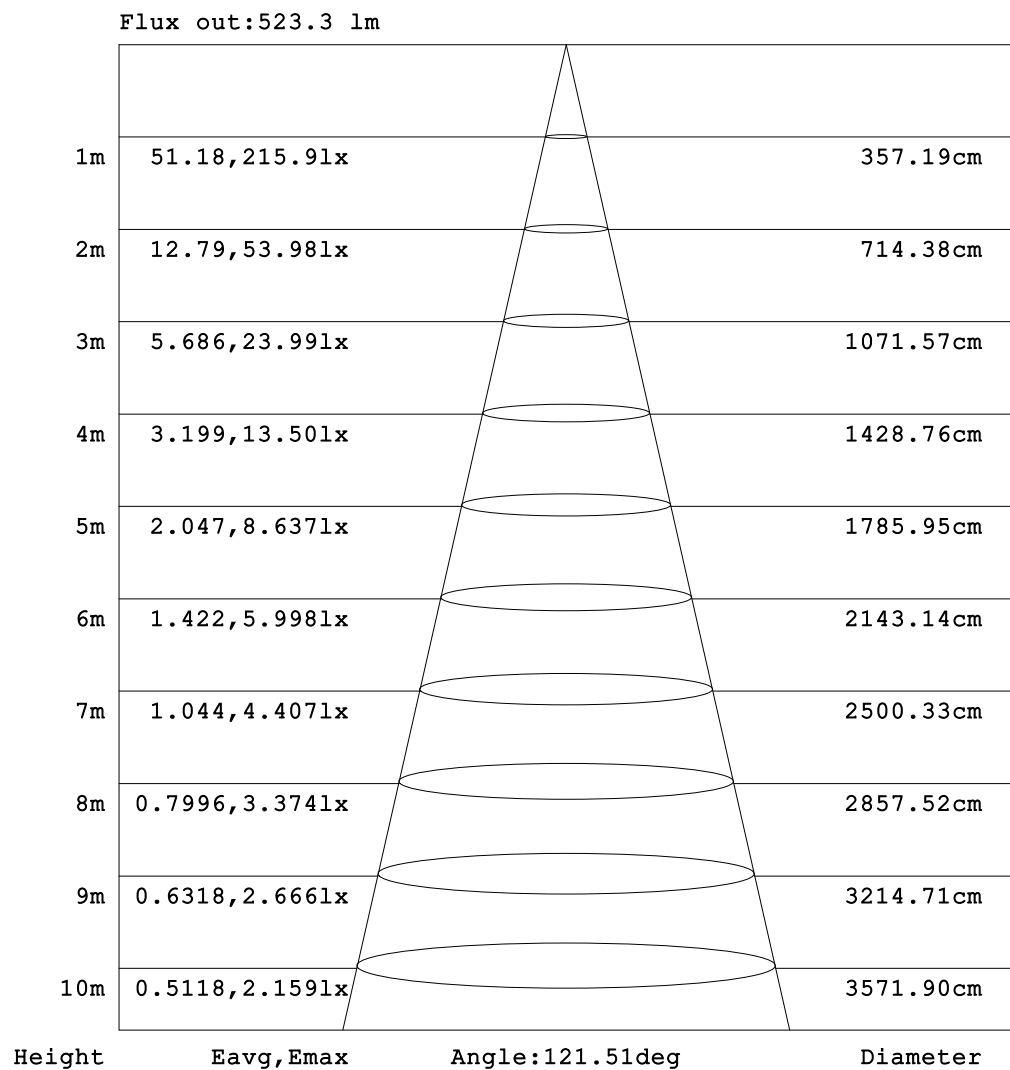


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-05-02

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:0.1570A P:16.50W PF:0.8710 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (2700K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

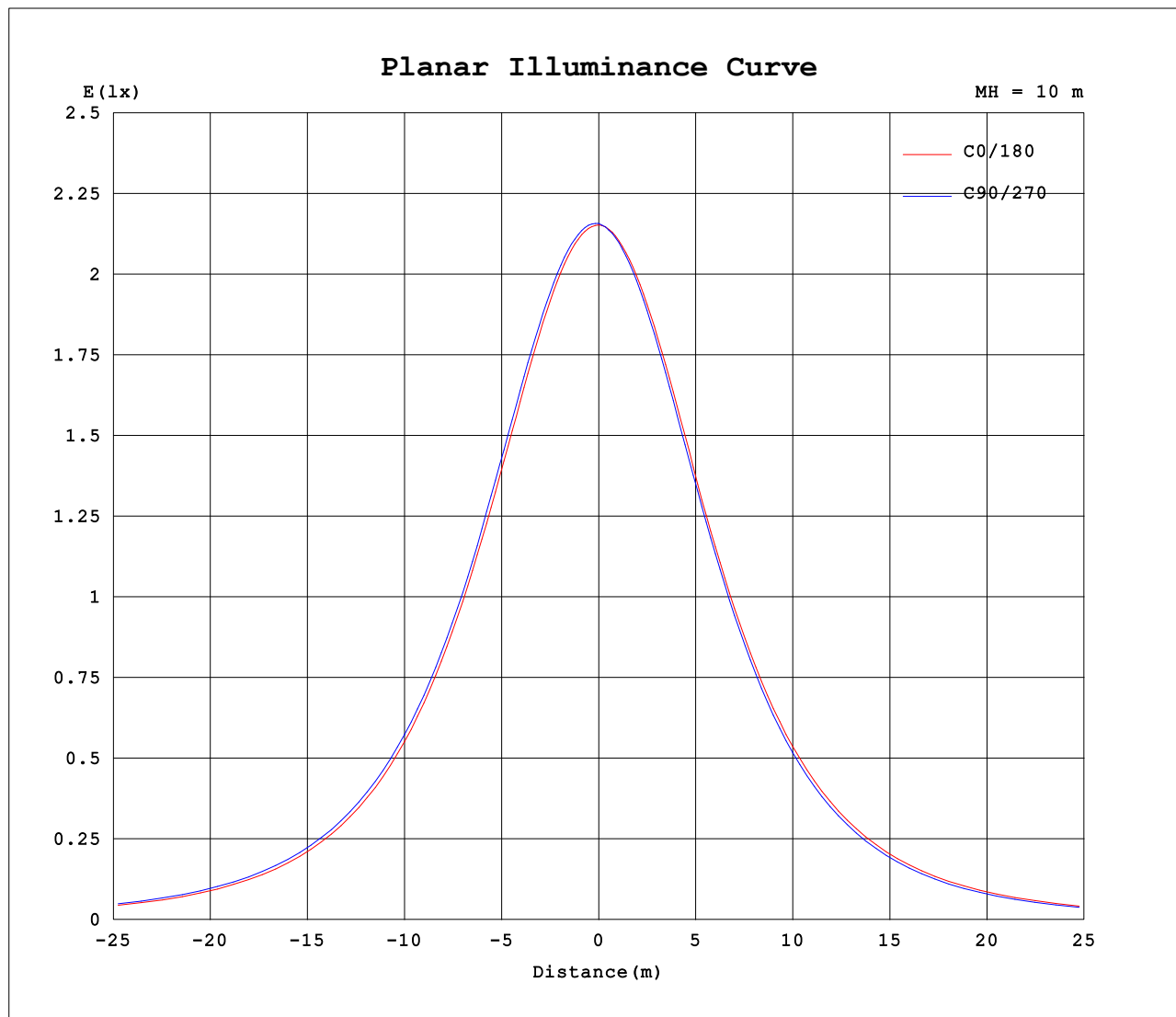


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.1570A P:16.50W PF:0.8710 Freq:60.00Hz Lamp Flux:739.877x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 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	215	215	215	216	216	216	215	215	215	216	216	216							
5	215	215	216	216	216	215	214	214	214	214	214	215							
10	213	214	214	215	214	213	212	211	210	210	211	212							
15	209	211	212	212	211	210	208	206	206	205	207	208							
20	204	206	207	208	207	205	202	200	199	199	200	203							
25	197	200	202	202	201	198	195	193	190	191	193	195							
30	189	191	194	195	193	189	185	184	181	182	183	187							
35	179	182	185	184	184	179	176	173	171	171	173	177							
40	168	171	175	174	173	168	164	162	159	159	161	166							
45	156	159	163	162	161	156	152	149	146	146	148	153							
50	143	146	150	149	148	142	138	135	132	132	134	139							
55	128	132	135	135	133	128	123	120	117	117	119	124							
60	112	116	120	120	118	112	108	104	101	101	104	109							
65	95.4	100	104	104	101	96.2	91.5	86.7	84.5	84.0	87.2	91.7							
70	78.8	83.8	86.9	87.2	84.1	79.7	74.8	70.1	67.9	67.4	70.5	75.0							
75	62.1	66.9	69.9	70.5	67.3	62.8	58.3	53.8	51.6	51.1	54.1	58.5							
80	46.1	50.7	53.3	53.8	50.9	46.8	42.5	38.4	36.5	36.0	38.7	42.7							
85	31.5	35.5	37.8	38.3	35.6	32.1	28.6	25.3	23.7	23.3	25.4	28.7							
90	20.1	23.1	24.6	25.0	22.9	20.5	18.6	16.6	15.5	15.3	16.4	18.3							
95	13.7	15.3	16.1	16.1	14.9	14.1	13.4	12.1	11.3	11.0	11.7	12.9							
100	10.5	11.5	11.9	11.8	11.3	10.7	10.2	9.05	8.19	7.83	8.64	9.79							
105	7.15	8.61	9.23	9.05	8.76	8.29	7.26	6.41	5.50	4.81	6.17	7.17							
110	4.93	6.24	6.90	6.07	6.42	6.19	4.86	4.34	3.58	3.37	4.22	5.06							
115	3.50	4.30	4.83	4.41	4.61	4.38	3.61	2.94	2.74	2.95	3.03	3.58							
120	2.75	2.84	3.15	3.13	3.33	3.06	2.99	2.71	2.70	2.93	2.92	2.94							
125	2.65	2.39	2.38	2.51	2.64	2.66	3.01	2.67	2.71	2.90	2.95	2.92							
130	2.70	2.38	2.34	2.49	2.62	2.70	3.07	2.66	2.76	2.97	3.01	2.94							
135	2.75	2.41	2.35	2.54	2.66	2.77	3.12	2.67	2.86	3.02	3.07	3.02							
140	2.84	2.50	2.36	2.60	2.73	2.85	3.18	2.79	2.97	3.02	3.07	3.08							
145	2.93	2.61	2.47	2.67	2.82	2.94	3.25	2.96	3.08	3.13	3.23	3.16							
150	3.04	2.76	2.60	2.76	2.90	3.03	3.30	3.05	3.20	3.28	3.31	3.15							
155	3.14	2.91	2.76	2.86	2.99	3.12	3.33	3.03	3.30	3.35	3.33	3.24							
160	3.24	3.06	2.80	2.96	3.08	3.19	3.34	3.03	3.15	3.41	3.35	3.38							
165	3.29	3.04	2.75	2.97	3.12	3.20	3.25	3.01	2.89	3.30	3.38	3.35							
170	3.26	2.83	2.77	2.84	3.04	3.05	3.10	2.92	2.92	2.92	3.24	3.14							
175	2.96	2.89	2.84	2.84	2.84	2.84	2.97	2.92	2.92	2.92	2.90	2.92							
180	2.93	2.93	2.88	2.89	2.88	2.88	2.93	2.92	2.90	2.92	2.88	2.86							

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: