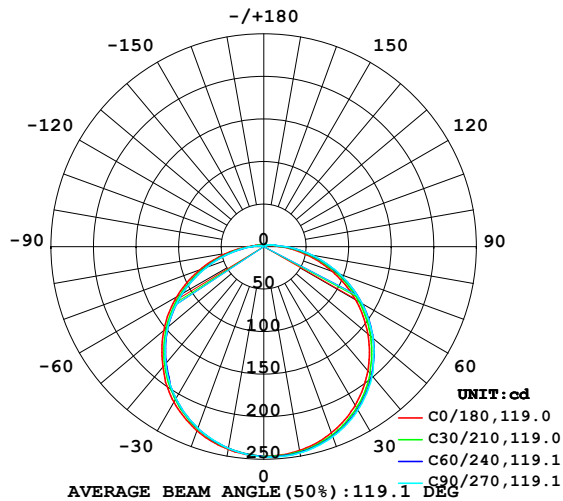


LUMINAIRE PHOTOMETRIC TEST REPORT

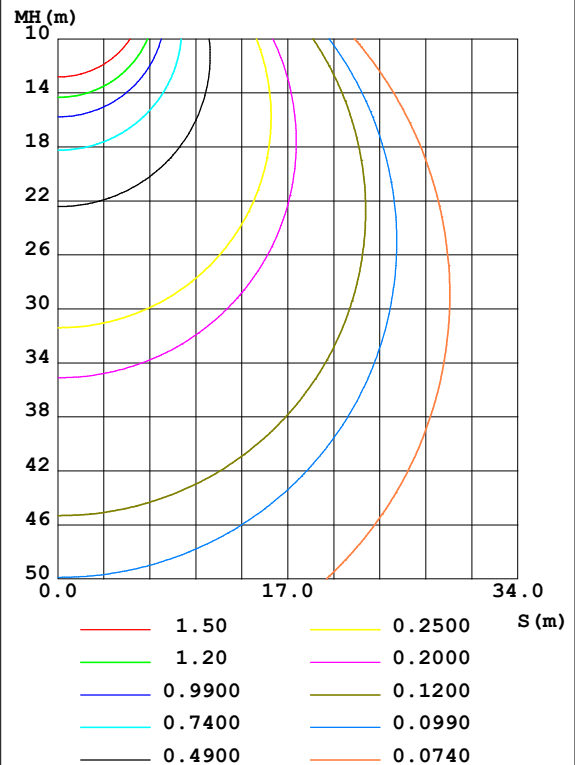
Test:U:120.5V I:0.1570A P:16.50W PF:0.8710 Freq:60.00Hz Lamp Flux:819.599x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 49.67 lm/W			
MODEL		I _{max} (cd)	247.5	S/MH(C0/180)	1.27
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)		TOTAL FLUX(lm)	819.60	η UP,DN(C0-180)	2.4,50.1
NOMINAL FLUX(lm)	819.599	CIE CLASS	DIRECT	η UP,DN(C180-360)	2.0,45.5
LAMPS INSIDE	1	η up(%)	4.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	95.6	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	243.2	245.1	246.0	244.8	241.8	240.6	240.6	242.4	0- 10	23.38	23.38	2.85, 2.85
20	232.8	236.1	237.5	235.0	230.1	227.5	227.0	230.1	10- 20	67.35	90.74	11.1, 11.1
30	215.1	219.6	221.6	217.6	211.0	207.1	206.4	210.7	20- 30	103.2	193.9	23.7, 23.7
40	190.3	195.9	198.2	192.7	184.4	180.0	179.5	184.2	30- 40	126.3	320.2	39.1, 39.1
50	159.7	165.9	167.5	162.5	153.6	148.2	147.2	152.8	40- 50	133.7	453.9	55.4, 55.4
60	124.4	131.3	133.1	127.4	118.3	112.2	111.0	117.0	50- 60	125.2	579.0	70.6, 70.6
70	85.70	92.89	95.21	89.00	80.24	73.76	71.93	78.48	60- 70	101.8	680.8	83.1, 83.1
80	48.38	54.74	56.99	51.42	43.70	38.13	36.53	42.02	70- 80	68.24	749.0	91.4, 91.4
90	19.93	23.50	24.86	21.60	18.03	15.36	14.60	16.98	80- 90	34.37	783.4	95.6, 95.6
100	10.23	11.21	11.46	10.64	9.651	8.178	7.431	9.047	90-100	14.84	798.2	97.4, 97.4
110	4.993	6.364	5.961	6.097	4.723	3.898	3.464	4.753	100-110	7.658	805.9	98.3, 98.3
120	2.862	3.121	3.207	3.228	3.247	2.941	3.176	3.160	110-120	3.905	809.8	98.8, 98.8
130	2.829	2.446	2.633	2.782	3.350	2.991	3.250	3.239	120-130	2.626	812.4	99.1, 99.1
140	3.041	2.567	2.784	2.980	3.514	3.227	3.330	3.372	130-140	2.313	814.7	99.4, 99.4
150	3.292	2.887	3.012	3.210	3.639	3.501	3.613	3.568	140-150	2.008	816.7	99.6, 99.6
160	3.555	3.192	3.266	3.446	3.745	3.448	3.790	3.729	150-160	1.583	818.3	99.8, 99.8
170	3.604	3.081	3.153	3.375	3.462	3.247	3.250	3.594	160-170	0.9825	819.3	100, 100
180	3.285	3.224	3.228	3.197	3.269	3.247	3.234	3.192	170-180	0.3114	819.6	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 387.08 lm

%lum = 47.2%

%lamp = 47.2%

Conical surface Flux(120deg): 579.01 lm

%lum = 70.6%

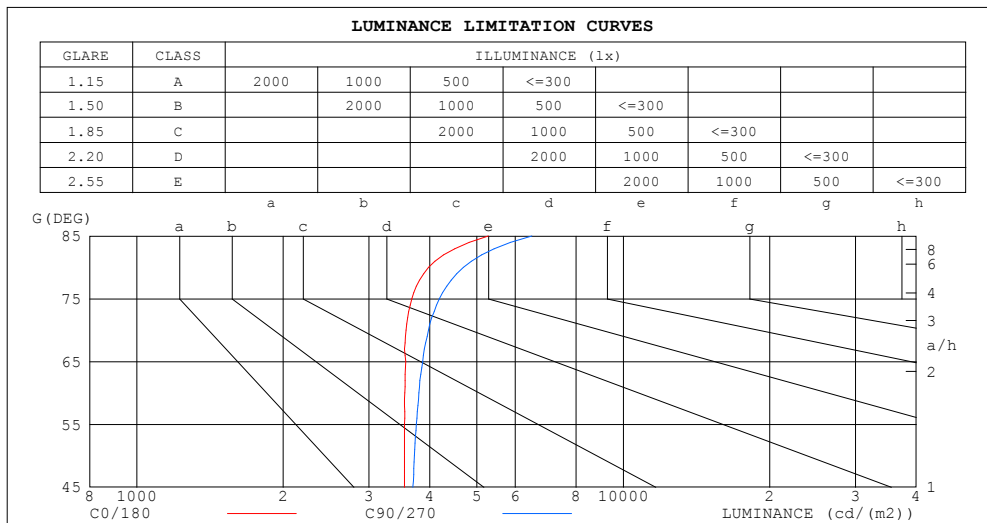
%lamp = 70.6%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.1570A P:16.50W PF:0.8710 Freq:60.00Hz Lamp Flux:819.599x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5277	6491
80	3980	4689
75	3675	4185
70	3579	3977
65	3571	3868
60	3556	3802
55	3552	3758
50	3549	3722
45	3550	3695

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:819.599x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (5000K)	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	.343	.195	.062	.334	.191	.061	.319	.183	.058	.304	.175	.056	.290	.168	.054		
2.0	.311	.171	.052	.304	.167	.052	.289	.161	.050	.276	.155	.049	.264	.149	.047		
3.0	.283	.151	.045	.276	.148	.045	.264	.143	.043	.252	.138	.042	.241	.133	.041		
4.0	.258	.134	.039	.252	.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	.183	.094	.027	.175	.091	.027		
8.0	.189	.092	.026	.185	.091	.026	.177	.089	.025	.170	.086	.025	.164	.084	.025		
9.0	.176	.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	.224	.224	.224	.192	.192	.192	.131	.131	.131	.075	.075	.075	.024	.024	.024	
1.0	.217	.190	.166	.185	.163	.143	.127	.112	.099	.073	.065	.057	.023	.021	.019	
2.0	.209	.166	.130	.179	.143	.112	.123	.099	.078	.071	.058	.046	.023	.019	.015	
3.0	.201	.149	.107	.173	.128	.093	.119	.089	.065	.068	.052	.038	.022	.017	.013	
4.0	.194	.136	.091	.166	.117	.079	.114	.082	.056	.066	.048	.033	.021	.016	.011	
5.0	.186	.125	.081	.160	.109	.070	.110	.076	.050	.064	.045	.029	.021	.015	.010	
6.0	.179	.117	.073	.154	.102	.064	.106	.071	.045	.061	.042	.027	.020	.014	.009	
7.0	.172	.110	.067	.148	.096	.059	.102	.067	.042	.059	.040	.025	.019	.013	.008	
8.0	.165	.105	.063	.142	.091	.055	.098	.064	.039	.057	.038	.023	.019	.012	.008	
9.0	.159	.100	.060	.137	.087	.052	.095	.061	.037	.055	.036	.022	.018	.012	.007	
10.0	.153	.096	.057	.132	.083	.050	.092	.058	.035	.053	.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:0.1570A P:16.50W PF:0.8710 Freq:60.00Hz Lamp Flux:819.599x1 lm															
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (5000K)						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	22.1
4H						20.6	21.9	20.9	22.2	22.6	21.0	22.3	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						21.6	22.9	22.1	23.2	23.6	22.3	23.5	22.7	23.9	24.2
12H						22.0	23.2	22.4	23.5	23.9	22.7	23.9	23.1	24.2	24.6
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	22.9
4H						21.7	22.7	22.1	23.1	23.6	22.1	23.1	22.5	23.5	24.0
6H						22.6	23.5	23.0	24.0	24.4	23.1	24.0	23.5	24.5	24.9
8H						23.0	23.9	23.5	24.3	24.8	23.6	24.5	24.1	24.9	25.4
12H						23.4	24.3	23.9	24.7	25.2	24.1	24.9	24.6	25.4	25.9
8H 4H						22.1	23.0	22.6	23.4	23.9	22.4	23.3	22.9	23.8	24.3
6H						23.3	24.0	23.8	24.5	25.0	23.7	24.4	24.2	24.9	25.5
8H						23.8	24.5	24.4	25.0	25.6	24.3	25.0	24.9	25.5	26.1
12H						24.4	25.0	25.0	25.5	26.1	25.0	25.6	25.6	26.2	26.7
12H 4H						22.2	23.0	22.7	23.5	24.0	22.5	23.3	23.0	23.8	24.3
6H						23.4	24.1	24.0	24.6	25.1	23.8	24.5	24.4	25.0	25.5
8H						24.1	24.7	24.6	25.2	25.8	24.6	25.1	25.1	25.7	26.2
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		+ 0.2 / - 0.4				+ 0.2 / - 0.3									

CIE Pub.117, 819.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.7)

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:

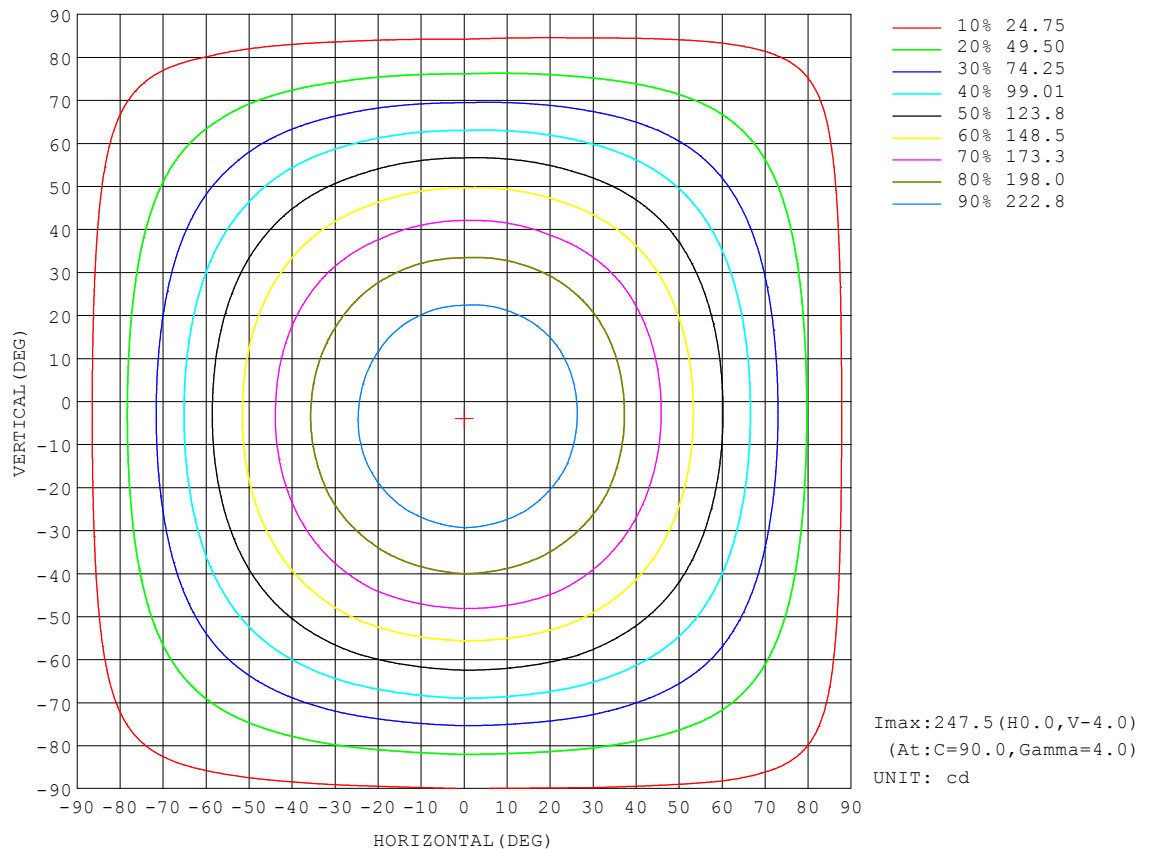
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.020m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

Test:U:120.5V I:0.1570A P:16.50W PF:0.8710 Freq:60.00Hz Lamp Flux:819.599x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

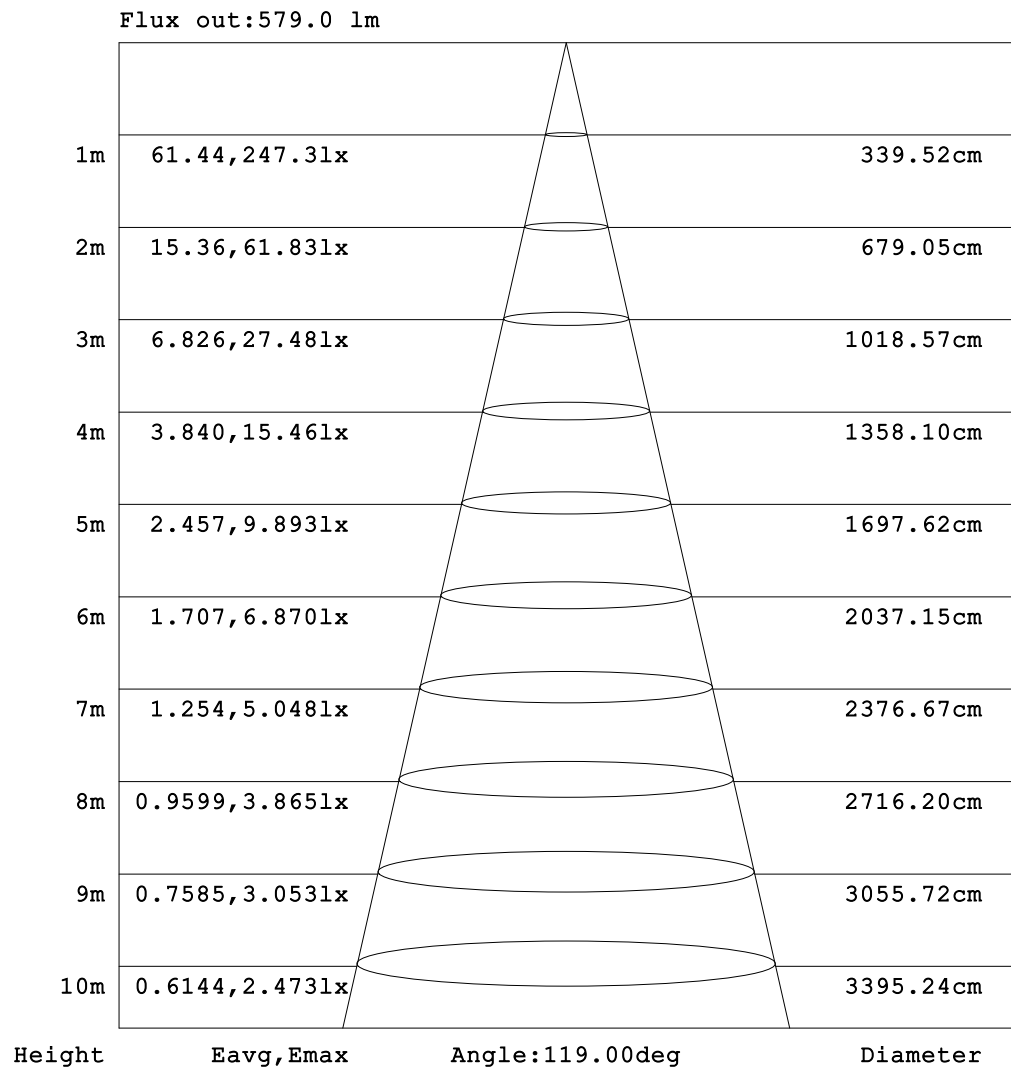


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-05-02

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:819.599x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

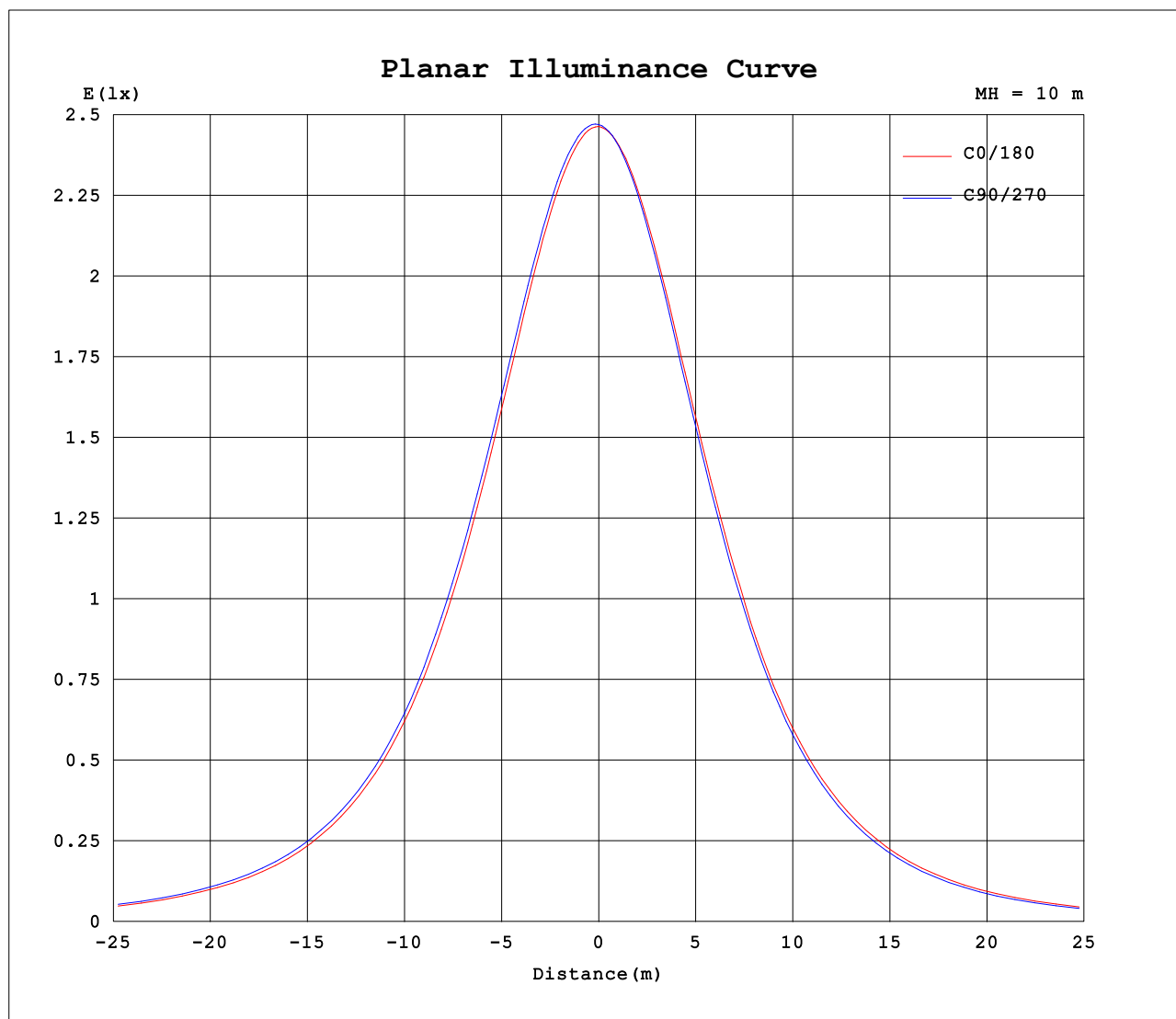


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:819.599x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-BL1 整灯 (5000K)	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	246	246	247	247	247	247	246	246	247	247	247	247						
5	246	246	247	247	247	247	245	244	244	244	245	245	246					
10	243	245	246	246	245	244	242	241	240	241	242	243						
15	239	241	242	243	242	240	237	235	235	235	236	238						
20	233	235	237	237	236	234	230	228	227	227	229	231						
25	225	228	230	230	229	226	221	219	218	218	220	223						
30	215	219	221	222	219	216	211	208	206	206	209	212						
35	204	208	210	211	208	204	199	195	193	194	197	200						
40	190	194	197	198	195	190	184	181	179	179	181	187						
45	176	179	183	183	181	175	170	166	163	164	166	172						
50	160	164	168	167	165	159	154	150	147	147	150	156						
55	143	147	151	151	148	142	136	132	129	130	132	138						
60	124	129	133	133	130	124	118	114	111	111	114	120						
65	106	111	114	114	112	106	99.4	93.9	91.7	91.1	95.0	101						
70	85.7	91.3	94.5	95.2	91.7	86.3	80.2	74.8	72.7	71.9	75.8	81.1						
75	66.6	72.0	75.0	75.8	72.5	67.1	61.4	56.3	54.1	53.4	57.1	62.3						
80	48.4	53.3	56.2	57.0	54.0	48.9	43.7	39.1	37.2	36.5	39.7	44.3						
85	32.2	36.4	38.8	39.6	36.8	32.7	28.5	24.8	23.3	22.7	25.2	28.9						
90	19.9	22.7	24.3	24.9	22.9	20.3	18.0	15.9	14.8	14.6	15.9	18.0						
95	13.5	14.8	15.5	15.6	14.7	13.7	12.8	11.5	10.7	10.4	11.3	12.7						
100	10.2	11.0	11.4	11.5	11.0	10.3	9.65	8.54	7.81	7.43	8.42	9.67						
105	6.82	8.34	8.83	8.67	8.49	7.88	6.59	6.05	5.34	4.76	6.07	7.24						
110	4.99	6.07	6.66	5.96	6.33	5.86	4.72	4.19	3.60	3.46	4.29	5.21						
115	3.64	4.32	4.74	4.39	4.64	4.22	3.64	3.05	2.96	3.19	3.21	3.79						
120	2.86	3.00	3.24	3.21	3.39	3.06	3.25	2.95	2.93	3.18	3.15	3.17						
125	2.77	2.47	2.46	2.62	2.74	2.77	3.30	2.93	2.96	3.16	3.20	3.16						
130	2.83	2.48	2.42	2.63	2.75	2.82	3.35	2.92	3.06	3.25	3.27	3.21						
135	2.92	2.53	2.42	2.69	2.83	2.92	3.43	2.96	3.18	3.32	3.34	3.29						
140	3.04	2.64	2.50	2.78	2.93	3.03	3.51	3.13	3.32	3.33	3.37	3.38						
145	3.15	2.74	2.63	2.89	3.03	3.15	3.57	3.33	3.45	3.45	3.52	3.47						
150	3.29	2.98	2.79	3.01	3.15	3.27	3.64	3.43	3.57	3.61	3.64	3.50						
155	3.43	3.17	2.99	3.14	3.28	3.39	3.70	3.39	3.68	3.72	3.65	3.61						
160	3.56	3.35	3.03	3.27	3.39	3.50	3.75	3.40	3.50	3.79	3.71	3.75						
165	3.65	3.35	3.01	3.29	3.46	3.54	3.62	3.39	3.22	3.84	3.74	3.80						
170	3.60	3.12	3.04	3.15	3.36	3.39	3.46	3.26	3.24	3.25	3.61	3.58						
175	3.28	3.20	3.13	3.16	3.14	3.16	3.28	3.26	3.24	3.24	3.22	3.33						
180	3.29	3.25	3.20	3.23	3.19	3.20	3.27	3.26	3.24	3.23	3.19	3.19						

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: