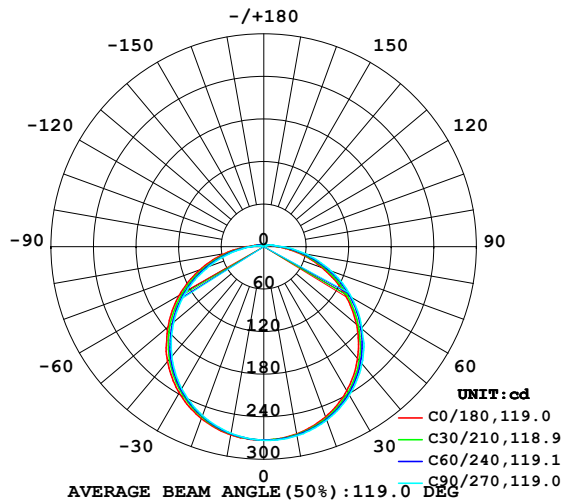


LUMINAIRE PHOTOMETRIC TEST REPORT

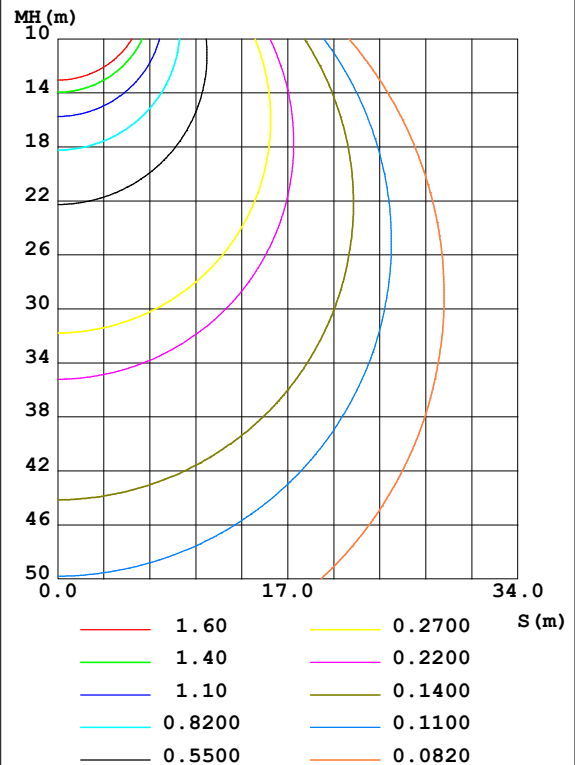
Test:U:120.4V I:0.1540A P:16.40W PF:0.8880 Freq:60.00Hz Lamp Flux:908.052x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 55.37 lm/W			
MODEL		Imax(cd)	273.5	S/MH(C0/180)	1.30
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)		TOTAL FLUX(lm)	908.05	η UP,DN(C0-180)	2.4,49.1
NOMINAL FLUX(lm)	908.052	CIE CLASS	DIRECT	η UP,DN(C180-360)	2.2,46.4
LAMPS INSIDE	1	η up(%)	4.5	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	95.5	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	268.0	269.5	270.7	270.8	269.5	268.1	267.2	267.7	0- 10	25.87	25.87	2.85, 2.85
20	255.4	258.3	260.4	260.3	257.8	255.0	253.3	254.0	10- 20	74.54	100.4	11.1, 11.1
30	234.4	238.7	241.8	241.6	238.3	234.2	231.5	232.2	20- 30	114.2	214.6	23.6, 23.6
40	205.8	211.1	215.4	215.1	211.3	205.9	201.8	203.1	30- 40	139.9	354.5	39, 39
50	170.9	176.7	181.1	181.4	176.4	170.4	166.1	166.8	40- 50	148.1	502.6	55.3, 55.3
60	130.9	137.7	143.0	143.0	137.7	130.9	125.8	126.6	50- 60	138.2	640.8	70.6, 70.6
70	87.97	95.28	101.3	101.0	95.97	88.43	82.73	83.96	60- 70	112.3	753.1	82.9, 82.9
80	48.00	54.41	59.70	59.39	55.03	48.07	43.35	44.47	70- 80	75.40	828.5	91.2, 91.2
90	19.84	22.87	25.89	25.75	23.26	19.68	17.74	18.62	80- 90	38.24	866.8	95.5, 95.5
100	11.01	12.12	12.80	12.58	11.54	10.60	9.730	10.72	90-100	17.02	883.8	97.3, 97.3
110	5.527	7.048	6.388	6.747	5.731	5.669	4.985	6.052	100-110	9.051	892.9	98.3, 98.3
120	2.982	3.580	3.416	3.158	3.433	3.563	3.546	3.357	110-120	4.519	897.4	98.8, 98.8
130	2.819	3.070	3.115	2.851	3.392	3.625	3.584	3.340	120-130	2.889	900.3	99.1, 99.1
140	2.973	3.243	3.311	3.112	3.501	3.708	3.700	3.512	130-140	2.553	902.8	99.4, 99.4
150	3.202	3.438	3.527	3.237	3.665	3.811	3.838	3.589	140-150	2.175	905.0	99.7, 99.7
160	3.468	3.618	3.726	3.389	3.829	3.906	3.909	3.666	150-160	1.669	906.7	99.8, 99.8
170	3.716	3.792	3.459	3.481	3.760	3.901	3.829	3.573	160-170	1.047	907.7	100, 100
180	3.645	3.621	3.610	3.571	3.652	3.626	3.620	3.578	170-180	0.3472	908.1	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 428.74 lm

%lum = 47.2%

%lamp = 47.2%

Conical surface Flux(120deg): 640.81 lm

%lum = 70.6%

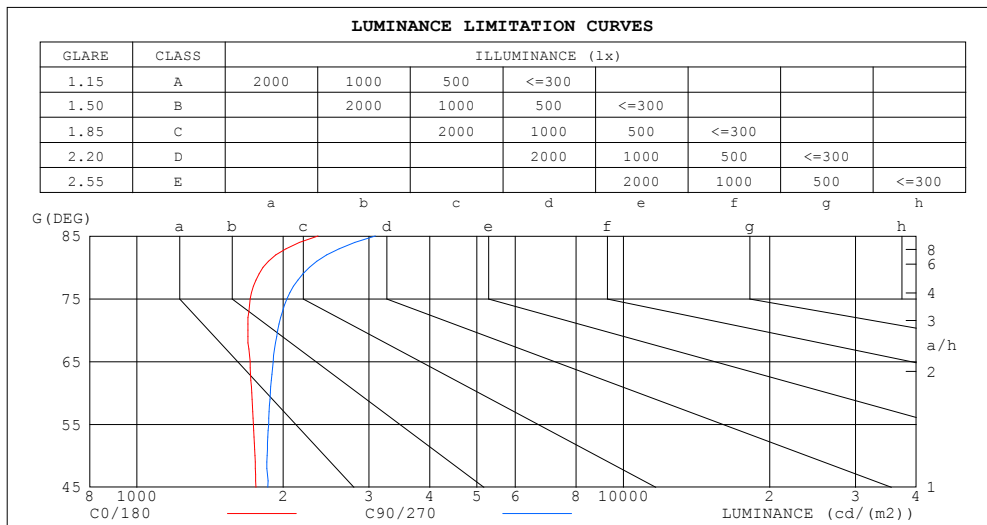
%lamp = 70.6%

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

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:0.1540A P:16.40W PF:0.8880 Freq:60.00Hz Lamp Flux:908.052x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2359	3095
80	1819	2262
75	1711	2036
70	1692	1948
65	1710	1907
60	1723	1882
55	1735	1866
50	1749	1854
45	1758	1858

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:0.1540A P:16.40W PF:0.8880 Freq:60.00Hz Lamp Flux:908.052x1 lm					
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 4000K			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	.318	.183	.058	.304	.175	.056	.290	.168	.054	
2.0	.311	.171	.052	.304	.167	.052	.289	.161	.050	.276	.155	.048	.264	.149	.047	
3.0	.283	.151	.045	.276	.148	.045	.263	.143	.043	.252	.138	.042	.241	.133	.041	
4.0	.258	.134	.039	.252	.132	.039	.241	.128	.038	.230	.124	.037	.220	.120	.036	
5.0	.237	.121	.035	.232	.119	.035	.221	.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	.093	.027	.175	.091	.027	
8.0	.189	.092	.026	.185	.091	.026	.177	.089	.025	.170	.086	.025	.164	.084	.024	
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	.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	.225	.225	.225	.192	.192	.192	.131	.131	.131	.075	.075	.075	.024	.024	.024	
1.0	.218	.191	.167	.186	.164	.143	.127	.113	.099	.073	.065	.058	.023	.021	.019	
2.0	.210	.167	.131	.180	.144	.113	.123	.099	.079	.071	.058	.046	.023	.019	.015	
3.0	.202	.150	.108	.173	.129	.093	.119	.090	.066	.069	.052	.039	.022	.017	.013	
4.0	.195	.137	.092	.167	.118	.080	.115	.082	.057	.066	.048	.033	.021	.016	.011	
5.0	.187	.126	.082	.161	.109	.071	.111	.076	.050	.064	.045	.030	.021	.015	.010	
6.0	.180	.118	.074	.154	.102	.065	.107	.072	.046	.062	.042	.027	.020	.014	.009	
7.0	.173	.111	.068	.149	.097	.060	.103	.068	.042	.060	.040	.025	.019	.013	.008	
8.0	.166	.106	.064	.143	.092	.056	.099	.064	.040	.058	.038	.024	.019	.012	.008	
9.0	.160	.101	.061	.138	.087	.053	.095	.061	.038	.056	.036	.022	.018	.012	.007	
10.0	.154	.097	.058	.133	.084	.051	.092	.059	.036	.054	.035	.022	.017	.011	.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:0.1540A P:16.40W PF:0.8880 Freq:60.00Hz Lamp Flux:908.052x1 lm										
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 4000K					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	18.8	20.1	19.2	20.4	20.8
8H	18.4	19.6	18.8	20.0	20.4	19.2	20.4	19.6	20.8	21.2
12H	18.7	19.9	19.1	20.2	20.6	19.6	20.8	20.0	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	17.9	19.1	18.4	19.5	19.9
4H	18.5	19.5	18.9	19.9	20.4	19.0	20.0	19.4	20.5	20.9
6H	19.3	20.3	19.8	20.7	21.2	20.0	20.9	20.4	21.4	21.8
8H	19.7	20.6	20.2	21.1	21.5	20.5	21.4	20.9	21.8	22.3
12H	20.1	20.9	20.6	21.4	21.9	21.0	21.8	21.5	22.3	22.8
8H 4H	18.9	19.8	19.4	20.2	20.7	19.3	20.2	19.8	20.7	21.2
6H	20.0	20.7	20.5	21.2	21.7	20.5	21.3	21.1	21.8	22.3
8H	20.5	21.2	21.0	21.7	22.2	21.2	21.8	21.7	22.3	22.9
12H	21.1	21.6	21.6	22.2	22.7	21.9	22.4	22.4	23.0	23.5
12H 4H	19.0	19.8	19.5	20.2	20.7	19.4	20.2	19.9	20.7	21.2
6H	20.1	20.8	20.6	21.3	21.8	20.7	21.3	21.2	21.8	22.4
8H	20.7	21.3	21.3	21.8	22.4	21.4	21.9	21.9	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, 908.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.3)

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:

UTILIZATION FACTORS TABLE

Test:U:120.4V I:0.1540A P:16.40W PF:0.8880 Freq:60.00Hz Lamp Flux:908.052x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

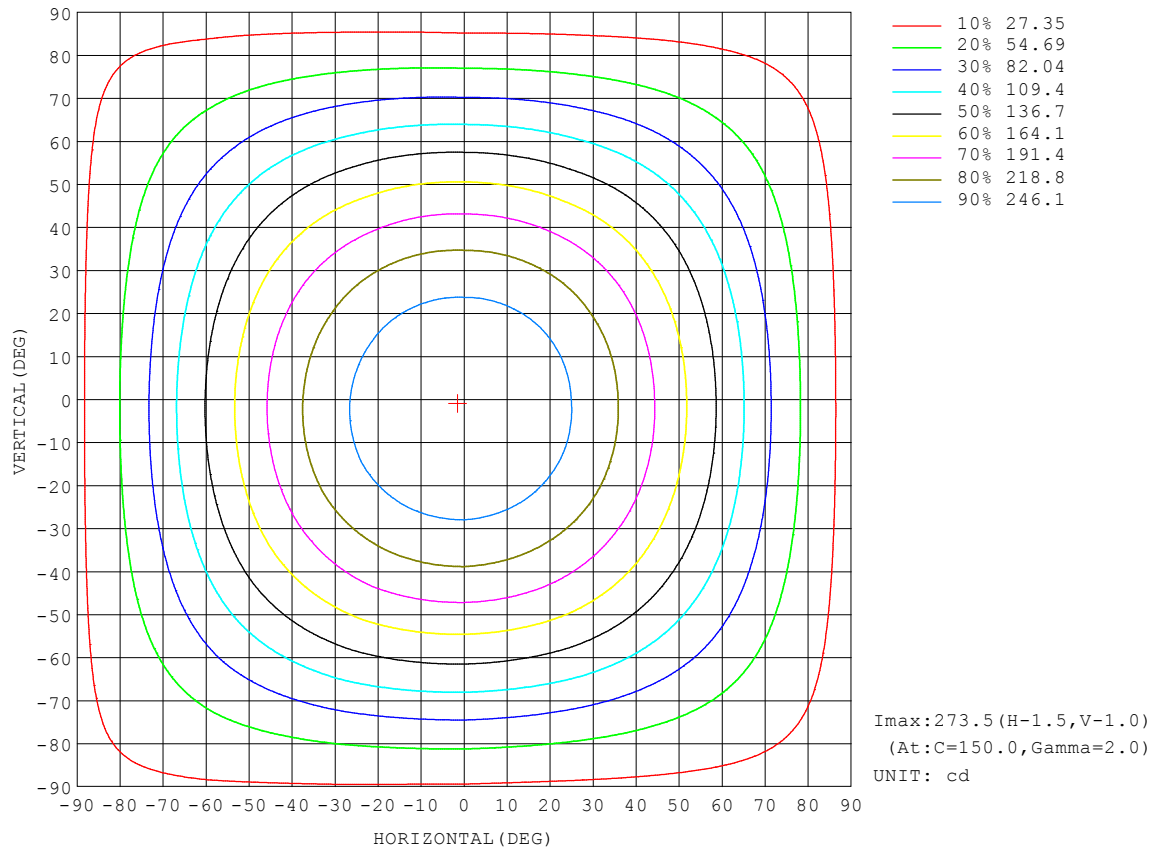
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	35	53	42	35	52	41	35	28
0.80	64	52	44	63	51	44	61	50	43	36
1.00	72	60	53	71	60	52	68	61	52	44
1.25	79	68	60	77	67	60	74	65	59	51
1.50	84	73	66	82	72	65	79	70	64	56
2.00	91	82	75	89	80	74	85	78	72	63
2.50	95	87	80	93	85	79	89	82	77	67
3.00	99	91	85	96	89	84	92	86	81	71
4.00	103	97	91	100	95	90	95	91	86	76
5.00	106	100	95	103	98	94	98	94	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:0.1540A P:16.40W PF:0.8880 Freq:60.00Hz Lamp Flux:908.052x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

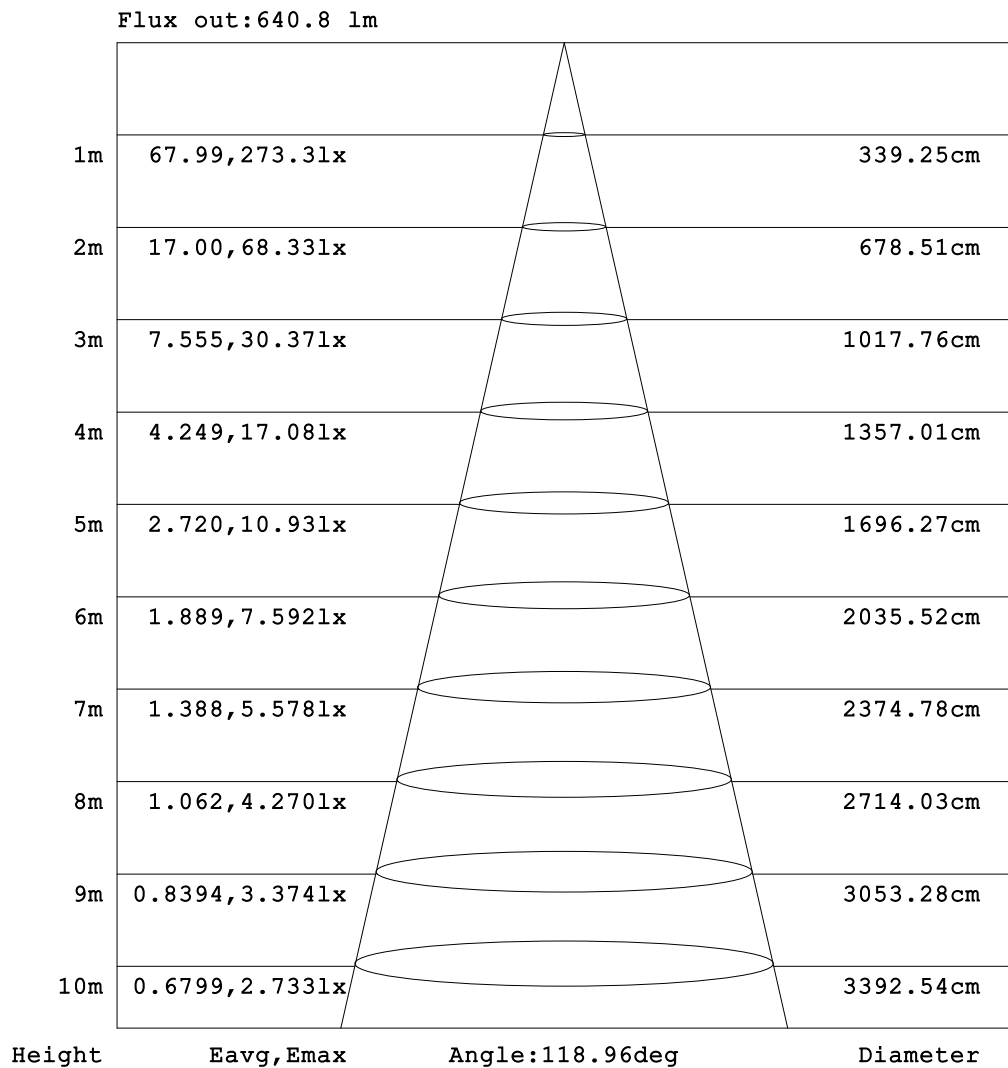


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-05-04

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:0.1540A P:16.40W PF:0.8880 Freq:60.00Hz Lamp Flux:908.052x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

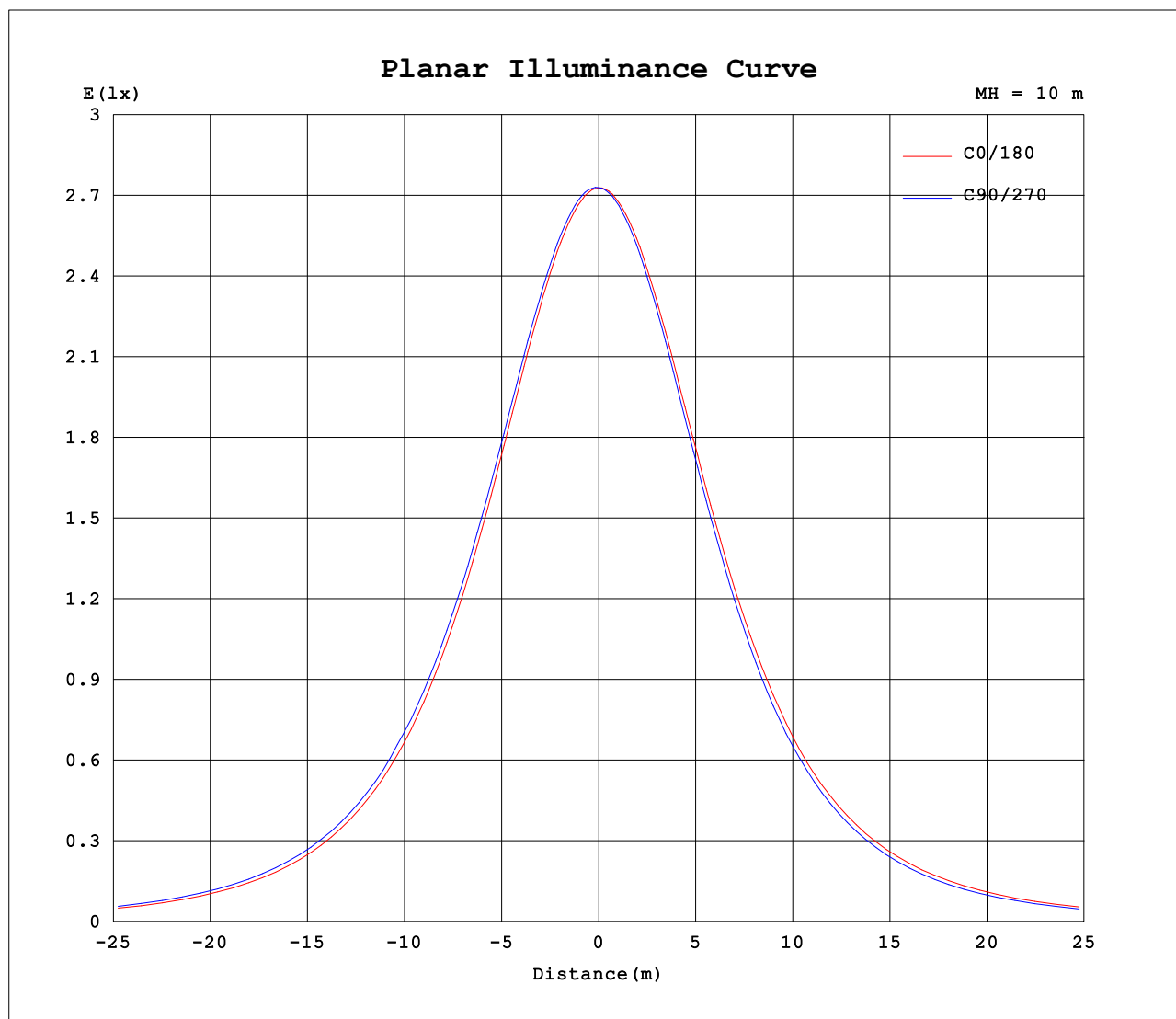


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1540A P:16.40W PF:0.8880 Freq:60.00Hz Lamp Flux:908.052x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 4000K	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	273	273	273	273	273	273	273	273	273	273	273	273							
5	271	272	272	273	273	273	272	272	271	271	271	272							
10	268	269	270	271	271	271	269	268	268	267	267	268							
15	263	264	266	267	267	267	265	263	262	261	262	262							
20	255	257	259	260	261	260	258	256	254	253	254	254							
25	246	249	250	252	252	252	249	246	245	243	244	245							
30	234	238	240	242	242	241	238	235	233	231	232	233							
35	221	225	227	230	230	229	226	222	220	218	218	219							
40	206	210	213	215	216	215	211	207	205	202	202	204							
45	189	193	196	200	200	199	195	191	186	185	184	187							
50	171	174	179	181	183	180	176	173	168	166	165	168							
55	151	155	160	163	164	162	158	154	149	146	146	148							
60	131	135	140	143	144	142	138	133	129	126	125	128							
65	110	114	119	122	124	121	117	112	108	105	104	107							
70	88.0	93.1	97.5	101	102	100	96.0	90.3	86.5	82.7	83.1	84.8							
75	67.3	72.3	76.5	80.1	80.5	79.0	74.9	69.5	65.7	62.2	62.6	64.3							
80	48.0	52.5	56.3	59.7	60.1	58.7	55.0	49.8	46.4	43.3	43.7	45.2							
85	31.2	34.9	38.1	41.0	41.5	40.3	37.0	32.6	29.9	27.6	28.0	29.1							
90	19.8	21.8	23.9	25.9	26.2	25.3	23.3	20.5	18.9	17.7	18.2	19.0							
95	14.3	15.2	16.1	17.1	17.3	16.6	15.8	14.4	13.6	13.2	13.5	14.0							
100	11.0	11.9	12.4	12.8	12.8	12.4	11.5	10.8	10.4	9.73	10.5	11.0							
105	7.42	9.14	9.69	9.31	9.45	9.41	7.76	7.92	7.71	6.68	7.92	8.42							
110	5.53	6.81	7.29	6.39	6.74	6.75	5.73	5.79	5.55	4.99	5.86	6.24							
115	3.99	4.89	5.20	4.62	4.70	4.53	4.24	4.23	4.01	3.88	4.28	4.46							
120	2.98	3.51	3.65	3.42	3.21	3.10	3.43	3.55	3.58	3.55	3.38	3.33							
125	2.80	3.00	3.08	3.07	2.90	2.72	3.37	3.54	3.61	3.54	3.39	3.21							
130	2.82	3.04	3.10	3.12	2.95	2.75	3.39	3.59	3.66	3.58	3.45	3.23							
135	2.87	3.10	3.20	3.21	3.07	2.86	3.44	3.62	3.70	3.64	3.53	3.30							
140	2.97	3.18	3.31	3.31	3.20	3.03	3.50	3.66	3.75	3.70	3.61	3.41							
145	3.10	3.27	3.40	3.42	3.32	3.10	3.58	3.71	3.81	3.77	3.69	3.47							
150	3.20	3.37	3.50	3.53	3.39	3.08	3.66	3.76	3.86	3.84	3.75	3.43							
155	3.34	3.48	3.59	3.63	3.48	3.17	3.75	3.83	3.90	3.90	3.77	3.53							
160	3.47	3.60	3.64	3.73	3.48	3.30	3.83	3.88	3.93	3.91	3.71	3.62							
165	3.60	3.71	3.73	3.77	3.39	3.39	3.89	3.92	3.94	3.89	3.65	3.58							
170	3.72	3.79	3.80	3.46	3.47	3.50	3.76	3.91	3.90	3.83	3.58	3.56							
175	3.60	3.63	3.55	3.54	3.50	3.50	3.65	3.66	3.63	3.63	3.59	3.58							
180	3.65	3.64	3.61	3.61	3.58	3.57	3.65	3.64	3.62	3.62	3.58	3.57							

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: