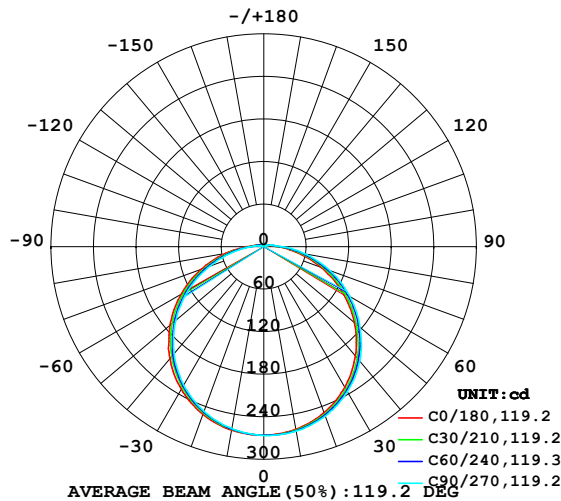


LUMINAIRE PHOTOMETRIC TEST REPORT

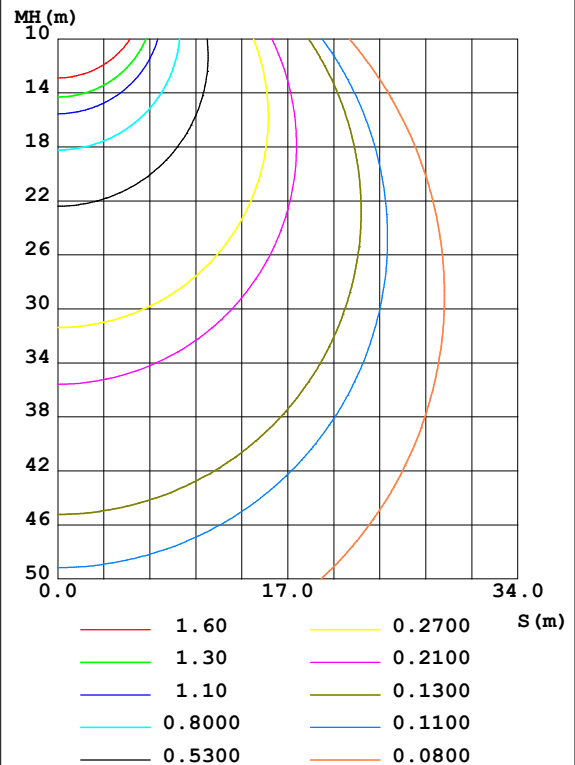
Test:U:120.4V I:0.1520A P:16.40W PF:0.8930 Freq:60.00Hz Lamp Flux:889.034x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 54.21 lm/W			
MODEL		Imax(cd)	266.8	S/MH(C0/180)	1.30
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)		TOTAL FLUX(lm)	889.03	η UP,DN(C0-180)	2.4,49.0
NOMINAL FLUX(lm)	889.034	CIE CLASS	DIRECT	η UP,DN(C180-360)	2.2,46.3
LAMPS INSIDE	1	η up(%)	4.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	95.4	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	261.6	263.1	264.3	264.3	262.8	261.4	260.6	261.1	0- 10	25.23	25.23	2.84, 2.84
20	249.1	252.1	254.1	254.1	251.6	248.9	247.0	247.8	10- 20	72.72	97.95	11, 11
30	228.8	232.9	236.0	236.0	232.5	228.4	225.6	226.6	20- 30	111.5	209.4	23.6, 23.6
40	201.0	206.5	210.6	210.2	206.3	200.8	197.0	198.3	30- 40	136.6	346.0	38.9, 38.9
50	167.0	172.7	177.2	177.4	172.6	166.6	162.3	163.1	40- 50	144.6	490.6	55.2, 55.2
60	128.2	134.8	140.2	140.1	134.8	128.2	123.1	123.9	50- 60	135.2	625.9	70.4, 70.4
70	86.32	93.54	99.50	99.17	94.33	86.75	81.10	82.43	60- 70	110.1	735.9	82.8, 82.8
80	47.30	53.63	58.99	58.56	54.20	47.38	42.67	43.90	70- 80	74.15	810.1	91.1, 91.1
90	19.72	22.68	25.89	25.69	23.14	19.57	17.70	18.60	80- 90	37.85	847.9	95.4, 95.4
100	11.03	12.15	12.92	12.69	11.62	10.67	9.765	10.76	90-100	17.04	865.0	97.3, 97.3
110	5.536	7.067	6.413	6.748	5.747	5.711	4.947	6.050	100-110	9.095	874.1	98.3, 98.3
120	2.946	3.571	3.384	3.101	3.397	3.502	3.478	3.297	110-120	4.502	878.6	98.8, 98.8
130	2.748	3.007	3.048	2.794	3.330	3.551	3.504	3.268	120-130	2.836	881.4	99.1, 99.1
140	2.925	3.174	3.241	3.049	3.437	3.637	3.623	3.436	130-140	2.501	883.9	99.4, 99.4
150	3.134	3.366	3.453	3.176	3.588	3.734	3.751	3.512	140-150	2.129	886.0	99.7, 99.7
160	3.388	3.530	3.639	3.313	3.745	3.819	3.819	3.584	150-160	1.632	887.7	99.8, 99.8
170	3.636	3.697	3.382	3.396	3.677	3.812	3.739	3.491	160-170	1.024	888.7	100, 100
180	3.559	3.543	3.530	3.489	3.568	3.544	3.533	3.493	170-180	0.3391	889.0	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 418.47 lm

%lum = 47.1%

%lamp = 47.1%

Conical surface Flux(120deg): 625.86 lm

%lum = 70.4%

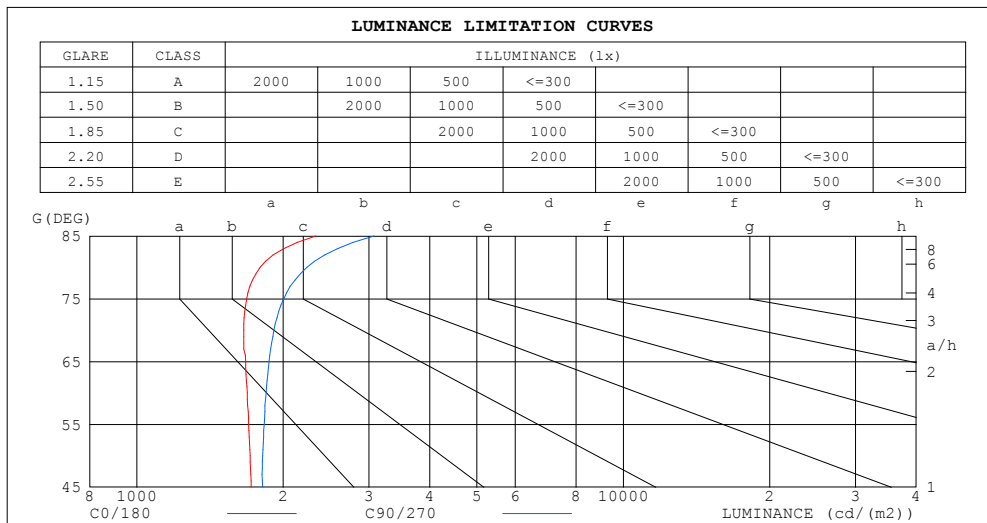
%lamp = 70.4%

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:0.1520A P:16.40W PF:0.8930 Freq:60.00Hz Lamp Flux:889.034x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2334	3074
80	1792	2235
75	1681	2005
70	1660	1914
65	1675	1869
60	1687	1845
55	1698	1827
50	1709	1814
45	1718	1814

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:0.1520A P:16.40W PF:0.8930 Freq:60.00Hz Lamp Flux:889.034x1 lm					
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3500K			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	.344	.195	.062	.335	.191	.061	.319	.183	.058	.304	.176	.056	.291	.169	.054		
2.0	.312	.171	.052	.304	.167	.052	.290	.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	.259	.134	.039	.252	.132	.039	.241	.128	.038	.230	.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	.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	.226	.226	.226	.193	.193	.193	.132	.132	.132	.076	.076	.076	.024	.024	.024	
1.0	.218	.191	.167	.187	.164	.144	.128	.113	.100	.073	.065	.058	.024	.021	.019	
2.0	.211	.168	.131	.180	.144	.114	.124	.100	.079	.071	.058	.046	.023	.019	.015	
3.0	.203	.150	.108	.174	.130	.094	.119	.090	.066	.069	.053	.039	.022	.017	.013	
4.0	.195	.137	.093	.168	.119	.081	.115	.083	.057	.067	.048	.034	.021	.016	.011	
5.0	.188	.127	.082	.161	.110	.072	.111	.077	.051	.064	.045	.030	.021	.015	.010	
6.0	.180	.119	.075	.155	.103	.065	.107	.072	.046	.062	.042	.027	.020	.014	.009	
7.0	.173	.112	.069	.149	.097	.060	.103	.068	.043	.060	.040	.025	.019	.013	.008	
8.0	.167	.106	.065	.144	.092	.056	.099	.065	.040	.058	.038	.024	.019	.013	.008	
9.0	.161	.101	.061	.138	.088	.054	.096	.062	.038	.056	.037	.023	.018	.012	.008	
10.0	.155	.097	.059	.133	.084	.051	.093	.059	.036	.054	.035	.022	.017	.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:120.4V I:0.1520A P:16.40W PF:0.8930 Freq:60.00Hz Lamp Flux:889.034x1 lm										
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3500K					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	20.5	20.8
8H	18.4	19.6	18.8	20.0	20.4	19.2	20.5	19.7	20.8	21.2
12H	18.7	19.9	19.1	20.3	20.7	19.7	20.8	20.1	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	18.0	19.1	18.4	19.5	19.9
4H	18.5	19.5	18.9	19.9	20.4	19.0	20.1	19.4	20.5	20.9
6H	19.3	20.3	19.8	20.7	21.2	20.0	21.0	20.5	21.4	21.9
8H	19.7	20.6	20.2	21.1	21.6	20.5	21.4	21.0	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	20.6	21.3	21.1	21.8	22.3
8H	20.5	21.2	21.1	21.7	22.3	21.2	21.9	21.7	22.4	22.9
12H	21.1	21.7	21.6	22.2	22.8	21.9	22.5	22.4	23.0	23.6
12H 4H	19.0	19.8	19.5	20.3	20.8	19.4	20.2	19.9	20.7	21.2
6H	20.1	20.8	20.7	21.3	21.9	20.7	21.4	21.2	21.9	22.4
8H	20.8	21.3	21.3	21.9	22.4	21.4	22.0	22.0	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, 889.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)

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:0.1520A P:16.40W PF:0.8930 Freq:60.00Hz Lamp Flux:889.034x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

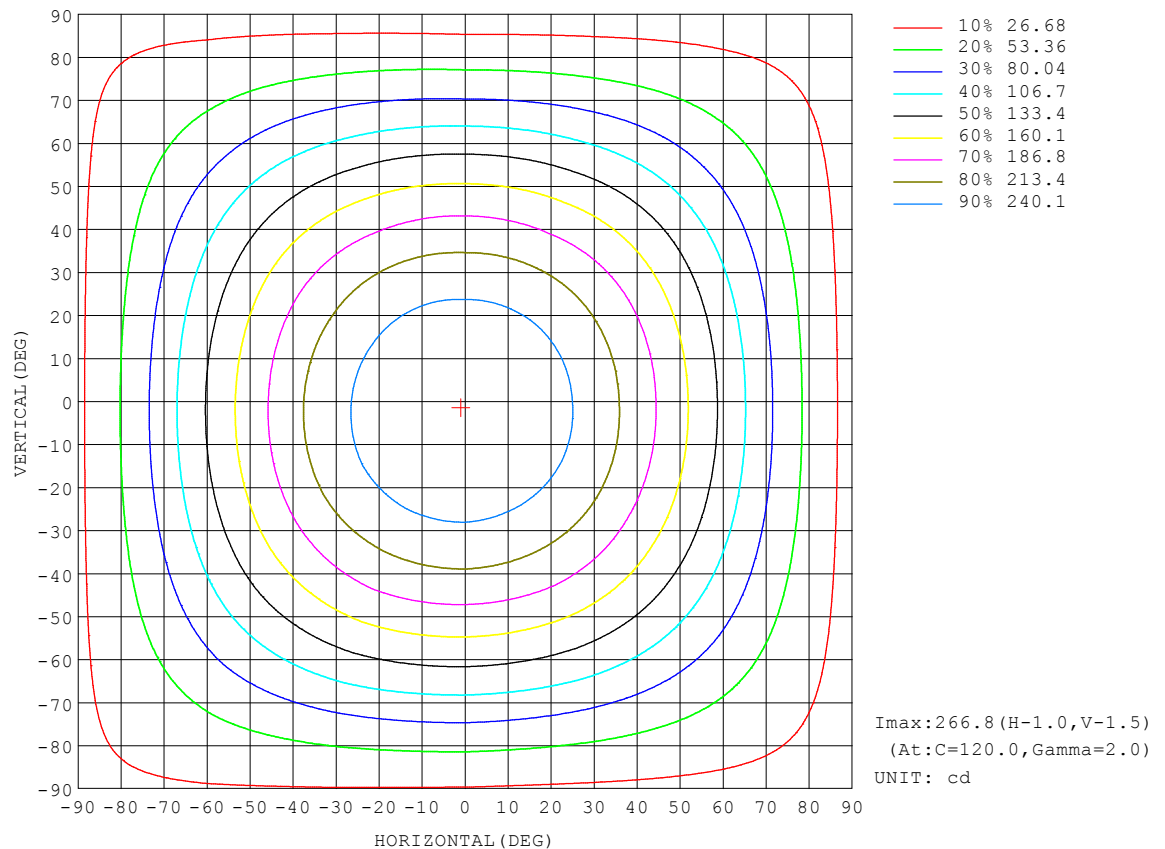
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	35	53	42	35	52	41	35	28
0.80	64	52	44	63	51	44	61	50	43	36
1.00	72	60	52	71	60	52	68	61	51	44
1.25	79	68	60	77	67	60	74	65	59	51
1.50	84	73	66	82	72	65	79	70	64	55
2.00	91	82	74	89	80	74	85	78	72	63
2.50	95	87	80	93	85	79	88	82	76	67
3.00	99	91	85	96	89	83	92	86	81	71
4.00	103	97	91	100	94	90	95	90	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:0.1520A P:16.40W PF:0.8930 Freq:60.00Hz Lamp Flux:889.034x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

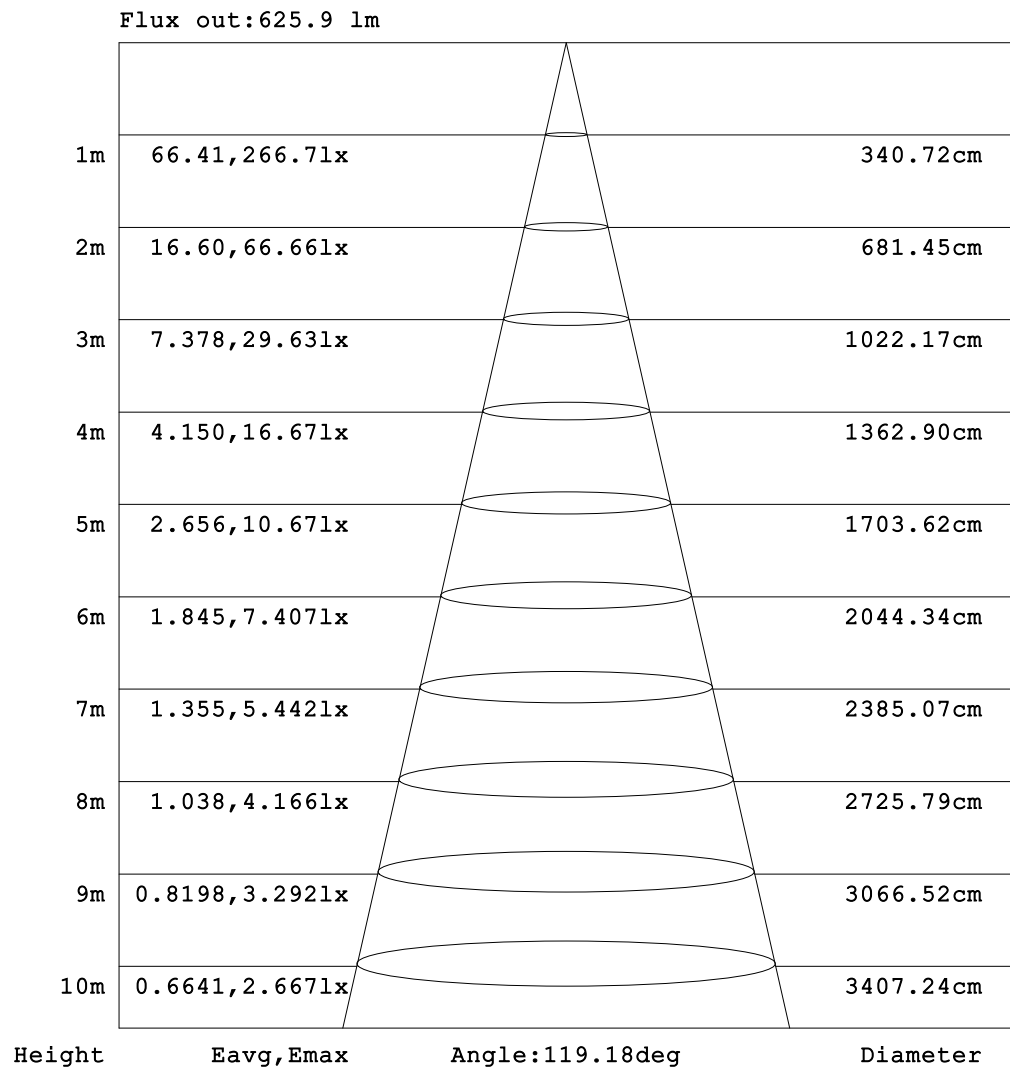


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-05-04

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:0.1520A P:16.40W PF:0.8930 Freq:60.00Hz Lamp Flux:889.034x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:12寸	Shielding Angle:

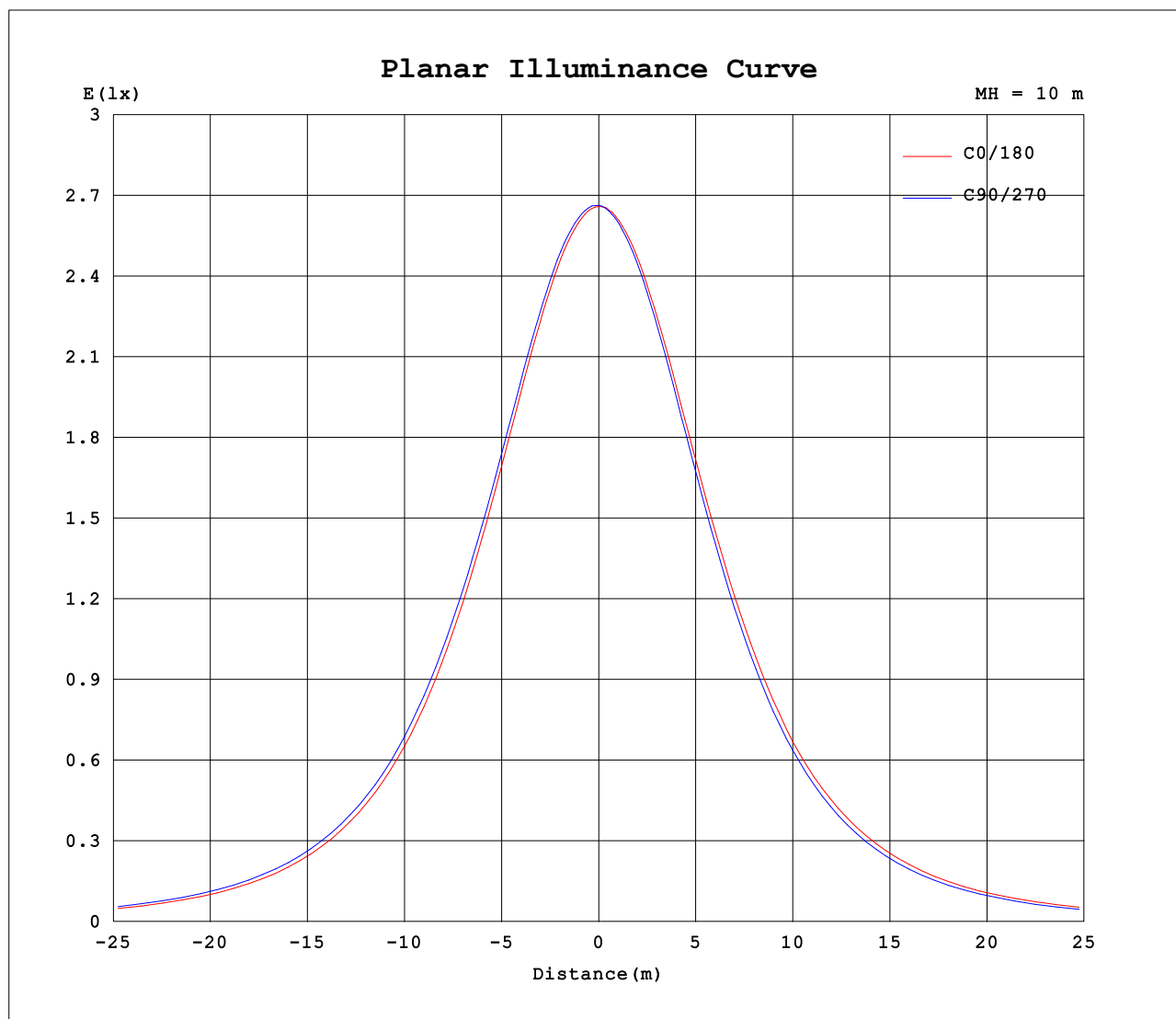


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1520A P:16.40W PF:0.8930 Freq:60.00Hz Lamp Flux:889.034x1 lm		
NAME: AFX-DCF12-17DOB-95C-120D-NS 整灯 3500K	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	266	266	266	266	267	267	266	266	266	266	267	267						
5	265	265	266	266	266	266	265	265	265	264	265	265						
10	262	263	263	264	264	264	263	262	261	261	261	261						
15	256	258	259	260	260	260	258	256	256	255	255	256						
20	249	251	253	254	254	254	252	250	248	247	247	248						
25	240	243	244	246	246	246	243	240	239	237	238	239						
30	229	232	234	236	236	236	233	229	227	226	226	227						
35	216	219	222	224	224	224	220	217	214	212	213	214						
40	201	205	208	211	211	210	206	202	200	197	198	199						
45	185	188	192	195	195	194	189	186	182	180	180	182						
50	167	170	175	177	179	176	173	169	164	162	162	164						
55	148	152	157	159	161	158	154	150	146	143	143	145						
60	128	132	137	140	141	139	135	131	126	123	123	125						
65	108	112	117	120	121	119	115	110	105	102	102	105						
70	86.3	91.3	95.7	99.5	100	98.2	94.3	88.6	84.9	81.1	81.7	83.2						
75	66.1	71.0	75.2	78.9	79.2	77.7	73.8	68.3	64.7	61.1	61.5	63.2						
80	47.3	51.7	55.6	59.0	59.2	57.9	54.2	49.1	45.7	42.7	43.2	44.6						
85	30.9	34.5	37.7	40.7	41.0	39.8	36.7	32.2	29.6	27.4	27.8	28.9						
90	19.7	21.6	23.8	25.9	26.1	25.2	23.1	20.3	18.8	17.7	18.2	19.0						
95	14.3	15.1	16.1	17.2	17.4	16.7	15.8	14.4	13.6	13.2	13.6	14.1						
100	11.0	11.9	12.4	12.9	12.9	12.5	11.6	10.9	10.5	9.76	10.5	11.0						
105	7.44	9.17	9.75	9.38	9.52	9.48	7.79	8.01	7.76	6.68	7.93	8.45						
110	5.54	6.81	7.33	6.41	6.74	6.76	5.75	5.85	5.57	4.95	5.85	6.25						
115	3.97	4.89	5.21	4.61	4.65	4.50	4.23	4.25	4.00	3.82	4.23	4.45						
120	2.95	3.51	3.63	3.38	3.14	3.07	3.40	3.49	3.51	3.48	3.32	3.27						
125	2.74	2.93	3.03	3.01	2.84	2.67	3.31	3.49	3.55	3.47	3.32	3.14						
130	2.75	2.97	3.04	3.05	2.89	2.70	3.33	3.52	3.58	3.50	3.38	3.16						
135	2.82	3.03	3.14	3.14	3.00	2.81	3.38	3.55	3.63	3.56	3.45	3.23						
140	2.92	3.11	3.24	3.24	3.13	2.96	3.44	3.60	3.68	3.62	3.54	3.33						
145	3.03	3.21	3.34	3.35	3.25	3.03	3.51	3.64	3.73	3.69	3.61	3.39						
150	3.13	3.30	3.44	3.45	3.34	3.02	3.59	3.69	3.78	3.75	3.67	3.36						
155	3.25	3.41	3.50	3.55	3.42	3.11	3.67	3.75	3.81	3.81	3.69	3.45						
160	3.39	3.52	3.54	3.64	3.41	3.22	3.75	3.80	3.84	3.82	3.63	3.54						
165	3.52	3.62	3.64	3.69	3.32	3.32	3.80	3.84	3.85	3.81	3.57	3.50						
170	3.64	3.70	3.70	3.38	3.39	3.40	3.68	3.82	3.81	3.74	3.50	3.48						
175	3.52	3.55	3.47	3.46	3.44	3.42	3.57	3.58	3.55	3.55	3.50	3.49						
180	3.56	3.55	3.54	3.53	3.49	3.49	3.57	3.55	3.54	3.53	3.50	3.49						

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: