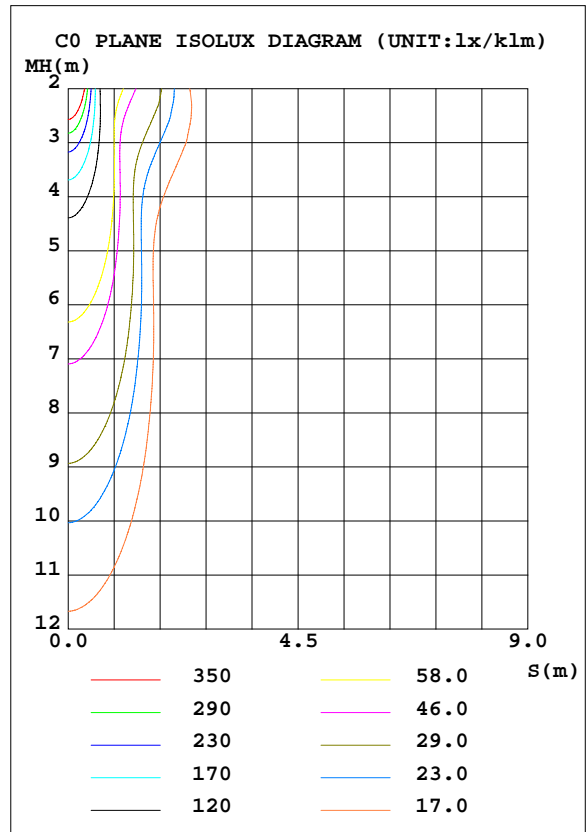
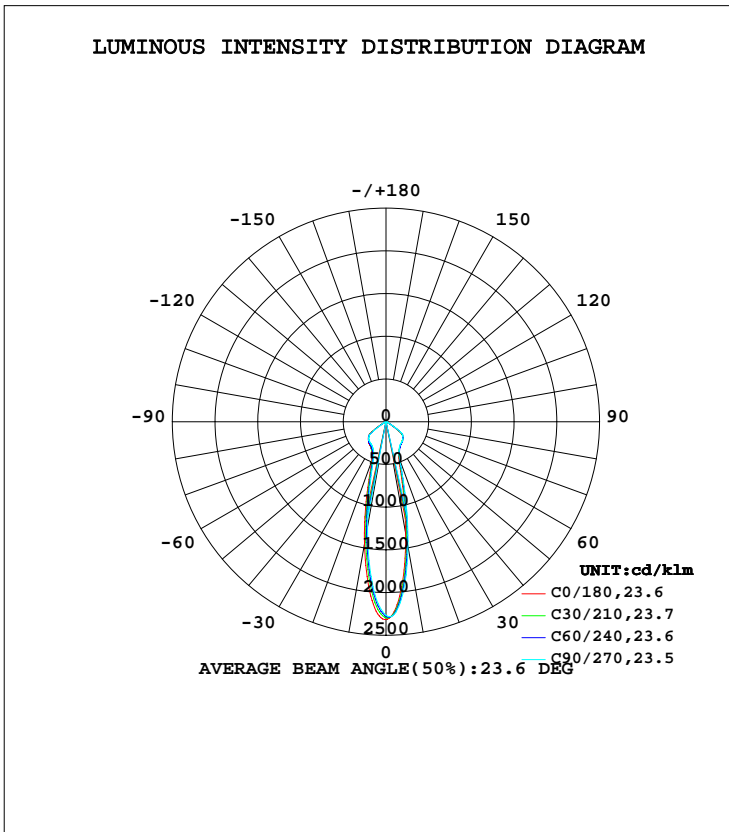


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: AR111F-14W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		I _{max} (cd/klm)	2315	S/MH(C0/180)	0.42
NOMINAL POWER(W)	14	LOR(%)	113.1	S/MH(C90/270)	0.37
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm/klm)	1131.1	η UP, DN(C0-180)	0.0,58.0
NOMINAL FLUX(lm)	1000	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,55.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	230.0	η down(%)	113.1	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

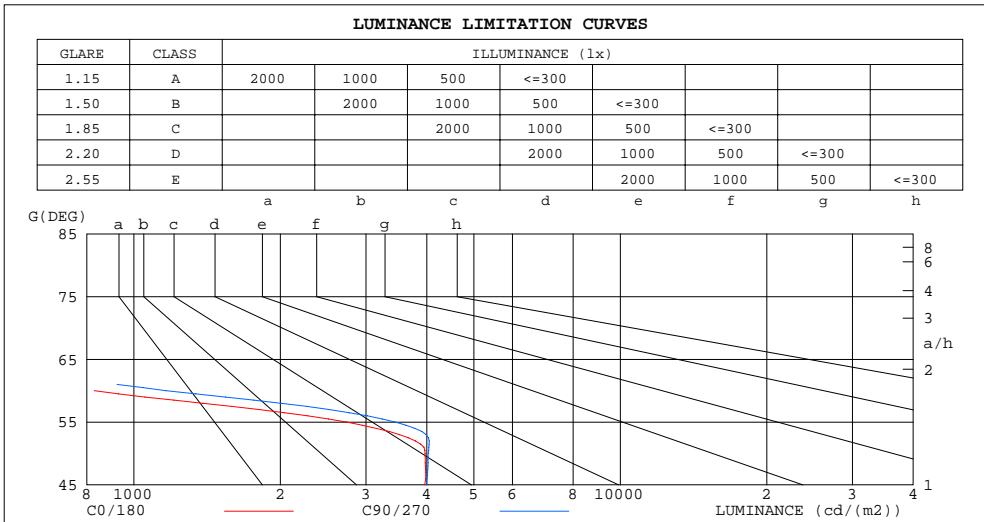
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	1334	1419	1484	1483	1454	1339	1247	1222	0- 10	169.4	169.4	15,16.9
20	445.2	466.4	479.1	476.7	491.6	459.7	427.0	407.7	10- 20	219.4	388.8	34.4,38.9
30	332.0	332.6	325.8	329.4	353.6	345.4	326.4	310.1	20- 30	171.5	560.3	49.5,56
40	297.3	298.6	298.9	291.8	314.7	311.5	301.4	279.5	30- 40	196.0	756.3	66.9,75.6
50	255.1	254.7	258.9	248.7	266.3	264.2	259.3	239.5	40- 50	214.9	971.1	85.9,97.1
60	41.44	52.52	58.17	56.37	53.74	40.18	33.80	32.17	50- 60	141.6	1113	98.4,111
70	3.703	3.830	5.011	5.674	4.909	3.632	3.186	2.524	60- 70	17.39	1130	99.9,113
80	0.0663	0.0744	0.0916	0.1466	0.1485	0.0942	0.0775	0.0434	70- 80	0.9599	1131	100,113
90	0.0095	0.0073	0.0058	0.0117	0.0131	0.0066	0.0044	0.0040	80- 90	0.0425	1131	100,113
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd/k1m									UNIT:lm/k1m		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: AR111F-14W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4	4
80	4	5
75	15	23
70	108	147
65	319	392
60	829	1163
55	2738	3446
50	3969	4028
45	3963	3997

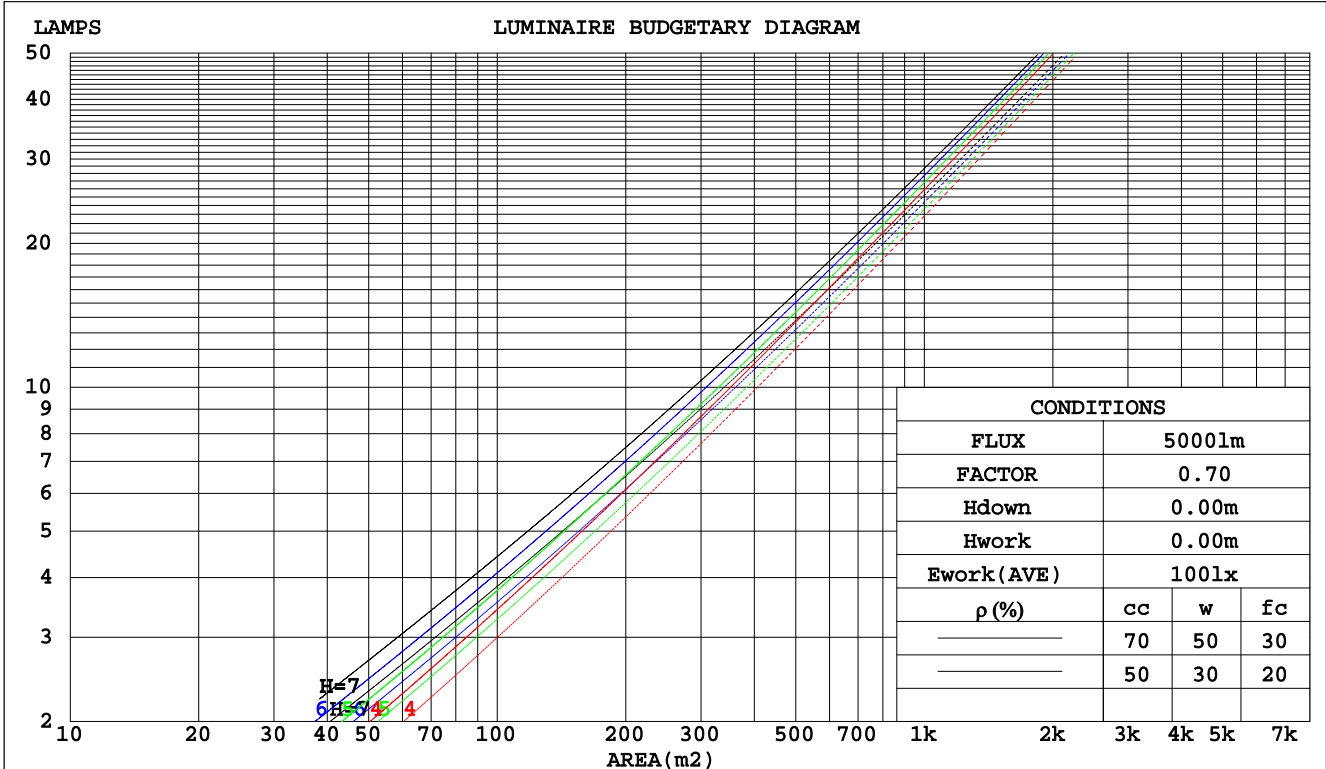
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: AR111F-14W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc																
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.35	1.35	1.35	1.32	1.32	1.32	1.26	1.26	1.26	1.20	1.20	1.20	1.15	1.15	1.15	1.13
1.0	1.24	1.20	1.18	1.21	1.18	1.16	1.17	1.14	1.12	1.12	1.10	1.09	1.08	1.07	1.06	1.04
2.0	1.13	1.08	1.03	1.11	1.06	1.02	1.07	1.03	.90	1.04	1.00	.98	1.01	.98	.95	.93
3.0	1.03	.97	.91	1.02	.96	.91	.99	.94	.89	.96	.91	.88	.93	.90	.86	.84
4.0	.95	.88	.82	.94	.87	.81	.91	.85	.80	.89	.84	.79	.86	.82	.79	.77
5.0	.88	.80	.74	.86	.79	.74	.84	.78	.73	.82	.77	.72	.80	.76	.72	.70
6.0	.81	.73	.68	.80	.73	.67	.78	.72	.67	.77	.71	.66	.75	.70	.66	.64
7.0	.76	.68	.62	.75	.67	.62	.73	.67	.62	.72	.66	.61	.70	.65	.61	.59
8.0	.71	.63	.58	.70	.63	.58	.69	.62	.57	.67	.61	.57	.66	.61	.57	.55
9.0	.66	.59	.54	.66	.59	.54	.65	.58	.54	.64	.58	.53	.63	.57	.53	.51
10.0	.63	.55	.51	.62	.55	.50	.61	.55	.50	.60	.54	.50	.59	.54	.50	.48



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: AR111F-14W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.232	.132	.042	.224	.128	.041	.209	.120	.038	.196	.113	.036	.184	.107	.034	
2.0	.227	.124	.038	.220	.121	.037	.208	.116	.036	.197	.110	.035	.186	.105	.033	
3.0	.218	.116	.035	.212	.114	.034	.202	.109	.033	.192	.105	.032	.183	.101	.031	
4.0	.207	.108	.032	.202	.106	.031	.193	.102	.031	.184	.099	.030	.176	.096	.029	
5.0	.196	.100	.029	.192	.099	.029	.184	.096	.028	.176	.093	.028	.169	.090	.027	
6.0	.186	.093	.027	.182	.092	.026	.175	.090	.026	.168	.087	.026	.162	.085	.025	
7.0	.176	.087	.025	.173	.086	.025	.166	.084	.024	.160	.082	.024	.155	.080	.024	
8.0	.167	.081	.023	.164	.081	.023	.158	.079	.023	.153	.077	.022	.148	.076	.022	
9.0	.158	.077	.021	.155	.076	.021	.150	.074	.021	.145	.073	.021	.141	.072	.021	
10.0	.150	.072	.020	.148	.071	.020	.143	.070	.020	.139	.069	.020	.135	.068	.019	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.215	.215	.215	.184	.184	.184	.126	.126	.126	.072	.072	.072	.023	.023	.023	
1.0	.196	.178	.161	.167	.152	.139	.115	.105	.096	.066	.061	.056	.021	.020	.018	
2.0	.181	.150	.123	.155	.129	.107	.106	.089	.074	.061	.052	.044	.020	.017	.014	
3.0	.169	.129	.096	.145	.111	.084	.100	.077	.059	.058	.045	.035	.018	.015	.011	
4.0	.159	.113	.077	.136	.097	.067	.094	.068	.047	.054	.040	.028	.017	.013	.009	
5.0	.150	.100	.063	.129	.086	.055	.089	.060	.039	.051	.035	.023	.017	.012	.008	
6.0	.142	.090	.052	.122	.078	.046	.084	.054	.032	.049	.032	.019	.016	.010	.006	
7.0	.135	.082	.044	.116	.071	.039	.080	.050	.027	.047	.029	.016	.015	.010	.005	
8.0	.128	.075	.038	.110	.065	.033	.076	.045	.023	.044	.027	.014	.014	.009	.005	
9.0	.122	.069	.033	.105	.060	.029	.073	.042	.020	.042	.025	.012	.014	.008	.004	
10.0	.116	.064	.029	.100	.055	.025	.069	.039	.018	.041	.023	.011	.013	.008	.004	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

NAME: AR111F-14W-3000K					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.: EVERFINE					SUR.:					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	15.2	16.3	15.4	16.5	16.6	15.6	16.7	15.8	16.9	17.1				
3H	15.0	16.0	15.3	16.2	16.4	15.4	16.5	15.7	16.7	16.9				
4H	14.9	15.9	15.2	16.1	16.3	15.3	16.3	15.6	16.5	16.8				
6H	14.8	15.7	15.1	16.0	16.2	15.2	16.1	15.5	16.4	16.7				
8H	14.8	15.6	15.1	15.9	16.2	15.2	16.1	15.5	16.3	16.6				
12H	14.7	15.5	15.0	15.8	16.1	15.1	16.0	15.5	16.3	16.5				
4H 2H	15.1	16.1	15.4	16.3	16.5	15.5	16.5	15.8	16.7	16.9				
3H	14.9	15.8	15.3	16.0	16.3	15.3	16.2	15.6	16.4	16.7				
4H	14.8	15.6	15.2	15.9	16.2	15.2	16.0	15.6	16.3	16.6				
6H	14.7	15.4	15.1	15.7	16.1	15.1	15.8	15.5	16.1	16.5				
8H	14.7	15.3	15.1	15.7	16.0	15.1	15.7	15.5	16.1	16.4				
12H	14.6	15.2	15.1	15.6	16.0	15.0	15.6	15.4	16.0	16.4				
8H 4H	14.7	15.3	15.1	15.7	16.0	15.1	15.7	15.5	16.1	16.4				
6H	14.6	15.1	15.0	15.5	15.9	15.0	15.5	15.4	15.9	16.3				
8H	14.5	15.0	15.0	15.4	15.9	14.9	15.4	15.4	15.8	16.2				
12H	14.5	14.9	15.0	15.3	15.8	14.9	15.3	15.4	15.7	16.2				
12H 4H	14.6	15.2	15.1	15.6	16.0	15.0	15.6	15.4	16.0	16.4				
6H	14.5	15.0	15.0	15.4	15.9	14.9	15.4	15.4	15.8	16.2				
8H	14.5	14.9	15.0	15.3	15.8	14.9	15.3	15.4	15.7	16.2				
Variations with the observer position at spacings:														
S = 1.0H	+ 1.2 / - 2.0					+ 0.7 / - 0.9								
1.5H	+ 1.1 / - 2.1					+ 1.1 / - 2.4								
2.0H	+ 3.3 / -10.8					+ 3.1 / -10.4								

CIE Pub.117, 1000 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.0)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

NAME: AR111F-14W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

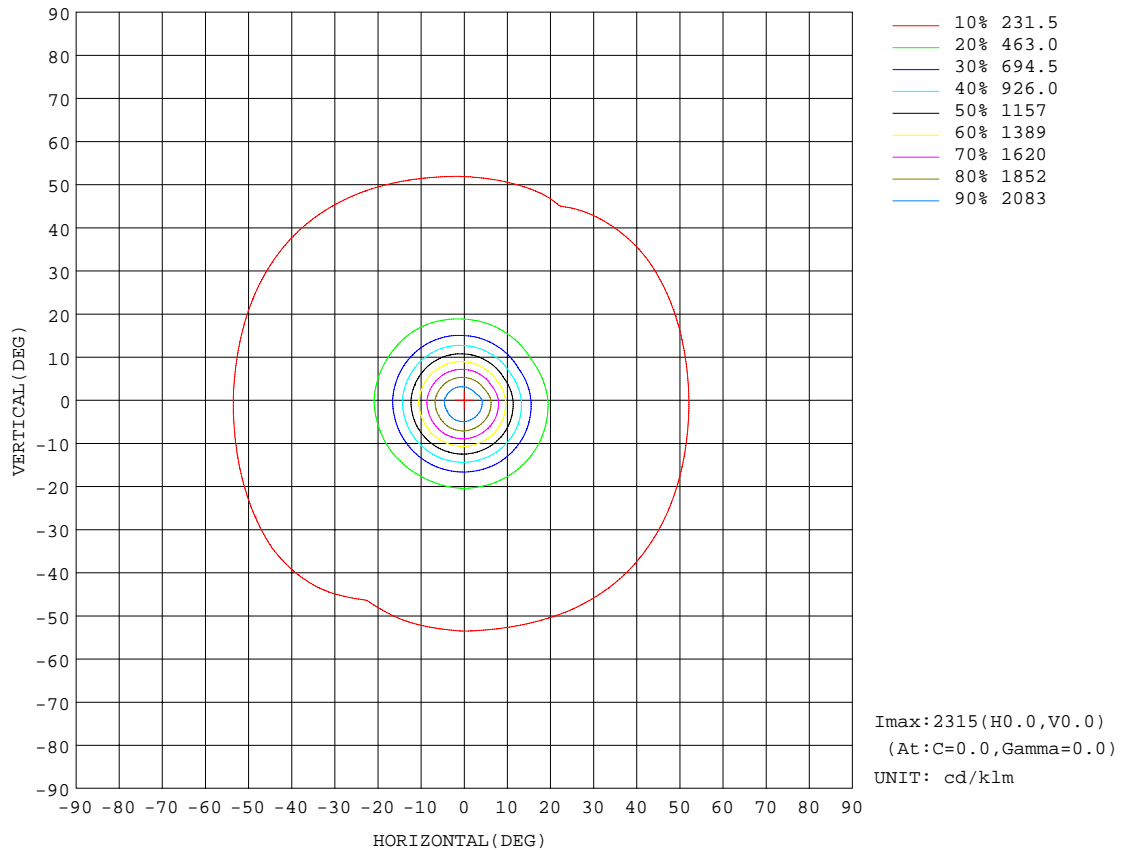
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	79	68	62	78	68	62	77	67	61	55
0.80	91	80	74	90	80	74	88	79	73	67
1.00	100	90	84	99	90	84	96	91	83	77
1.25	107	98	93	106	98	92	103	96	91	85
1.50	111	104	98	110	103	98	107	101	96	90
2.00	117	111	106	115	109	105	112	107	103	96
2.50	120	114	109	118	112	108	114	110	106	98
3.00	122	117	113	120	116	112	116	112	109	101
4.00	125	121	117	123	119	116	119	115	113	104
5.00	127	123	120	124	121	118	120	117	115	105
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: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: AR111F-14W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

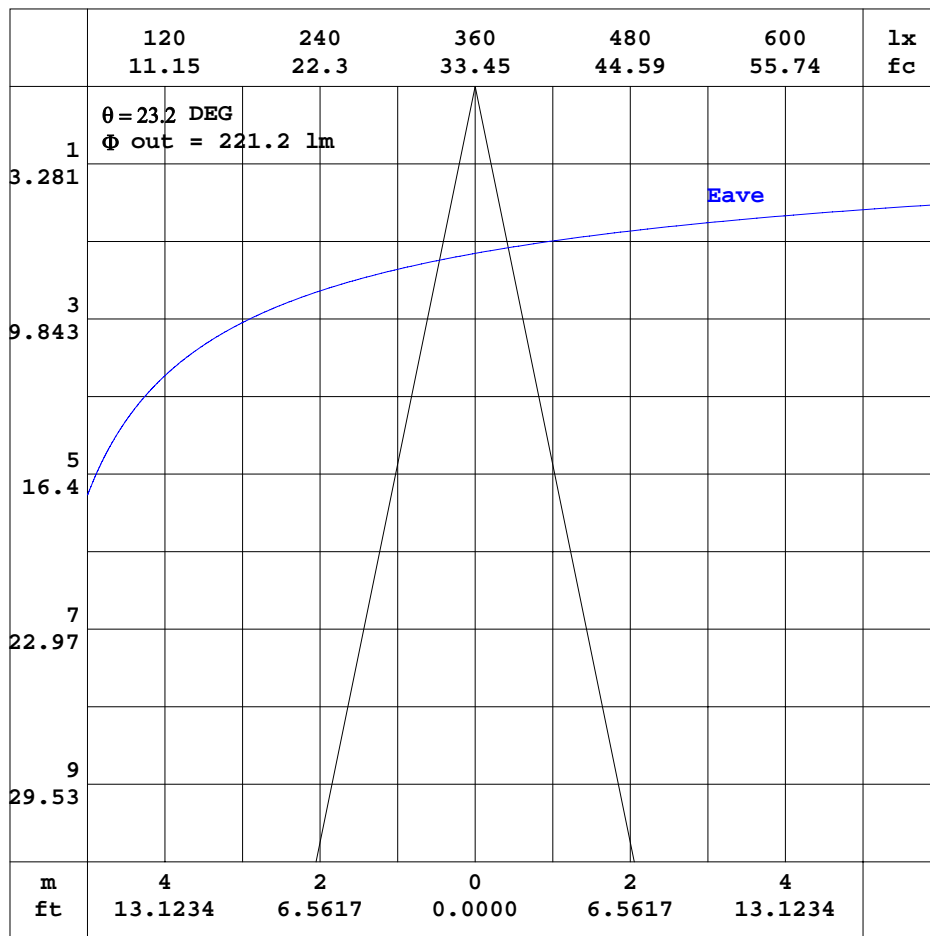


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

AAI CURVES

NAME: AR111F-14W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



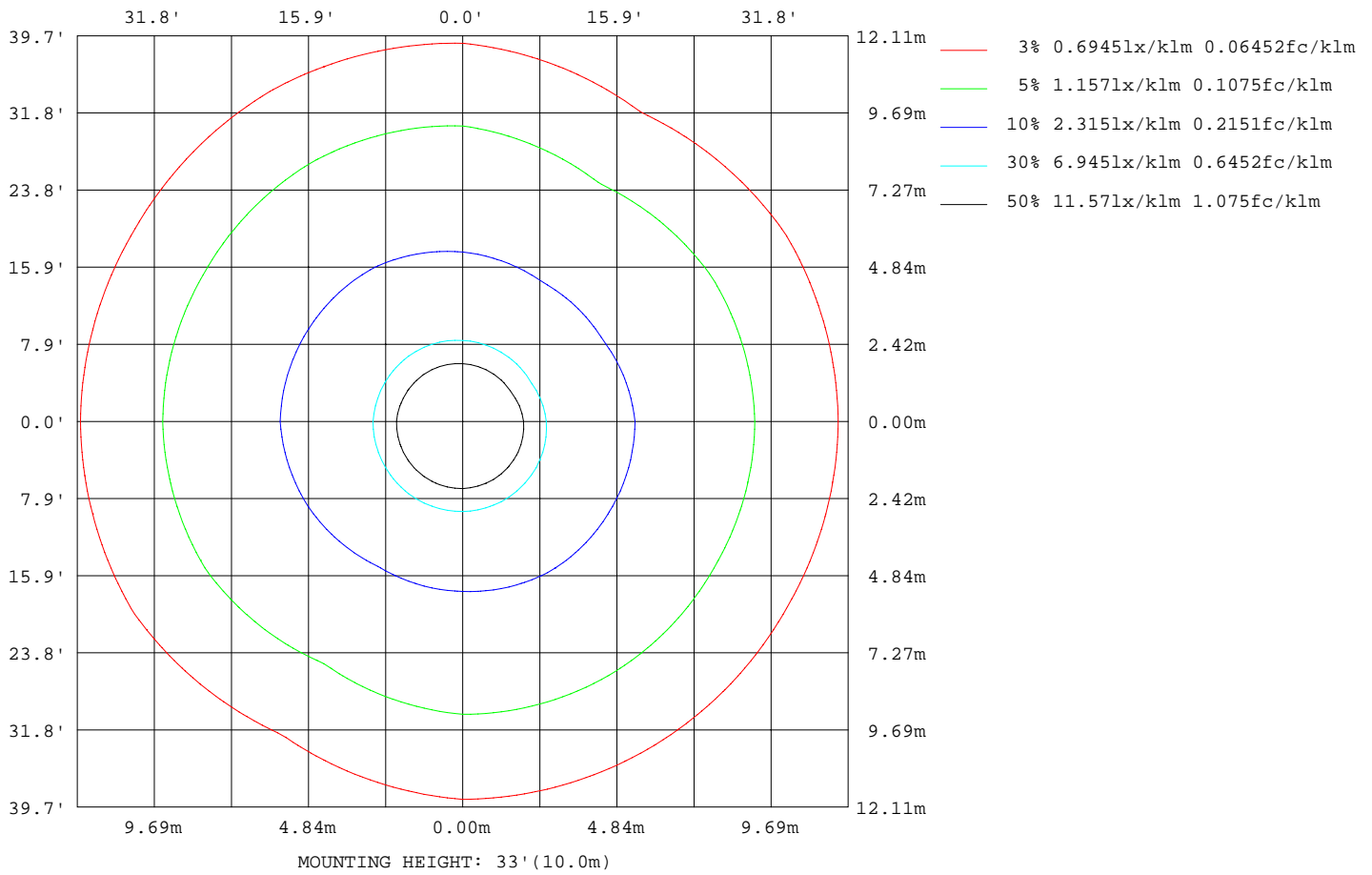
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: AR111F-14W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

LED Avg.L Report

NAME: AR111F-14W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

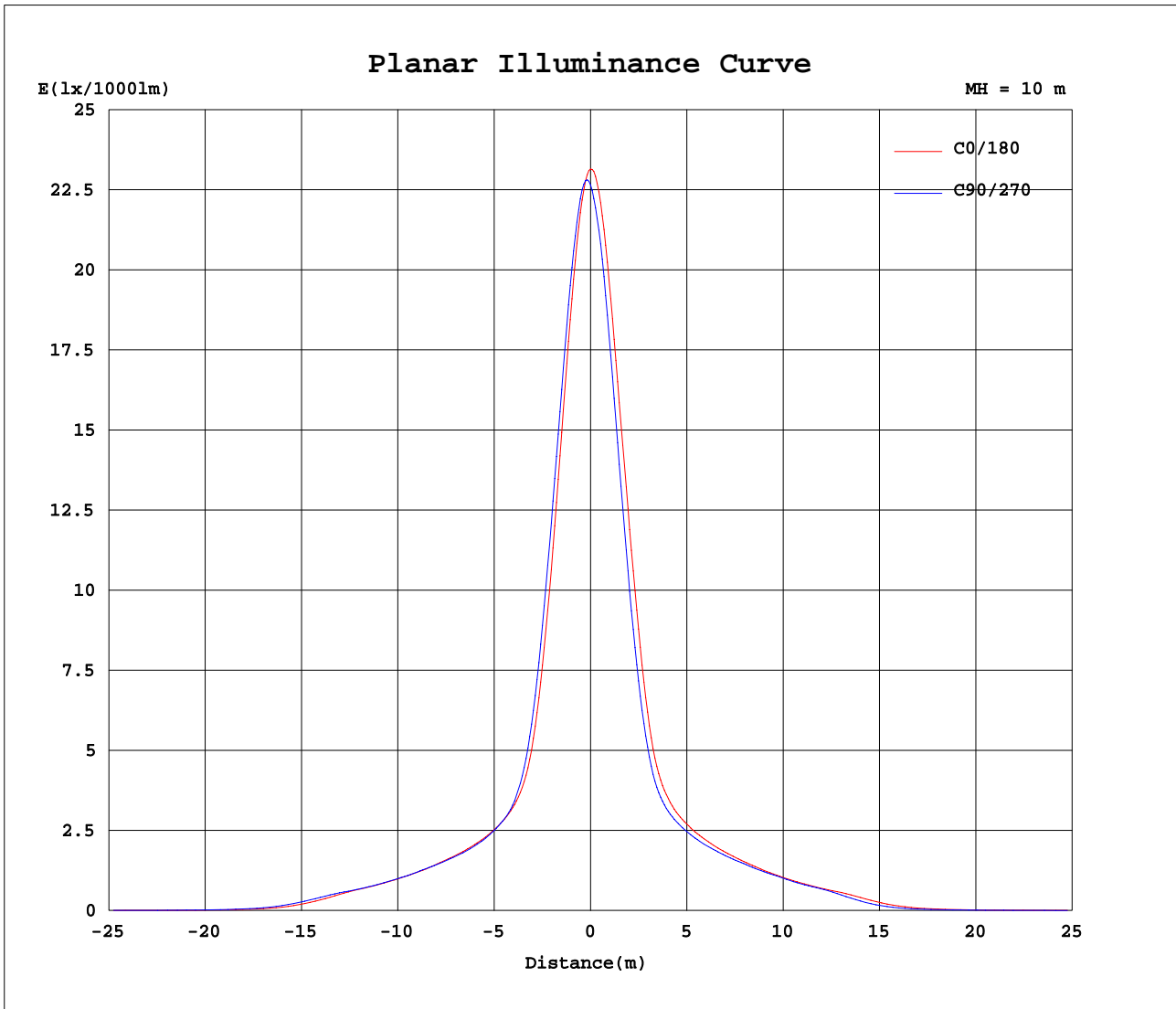
AvgL	cd/m2
L_0~180(65)av	362
L_0~180(75)av	20
L_0~180(85)av	5
L_90~270(65)av	342
L_90~270(75)av	19
L_90~270(85)av	4
L_45(65)av	336
L_45(75)av	15
L_45(85)av	4

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: AR111F-14W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd/klm

C(DEG)\ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	2315	2295	2278	2265	2255	2249	2315	2295	2278	2265	2255	2249							
5	1994	2028	2053	2083	2083	2058	2047	1976	1921	1880	1872	1885							
10	1334	1393	1445	1484	1494	1472	1454	1372	1307	1247	1220	1224							
15	737	793	834	859	868	860	850	792	743	693	662	652							
20	445	461	472	479	472	482	492	467	453	427	409	407							
25	366	369	375	366	359	375	392	382	375	356	338	340							
30	332	332	333	326	319	340	354	348	343	326	307	314							
35	314	310	312	308	294	317	331	326	325	312	287	300							
40	297	296	301	299	277	307	315	310	314	301	269	290							
45	280	277	281	283	257	287	293	290	293	286	252	274							
50	255	253	257	259	234	264	266	262	266	259	227	252							
55	157	172	186	198	182	202	193	169	153	135	117	135							
60	41.4	49.6	55.4	58.2	53.5	59.3	53.7	43.0	37.3	33.8	30.0	34.3							
65	13.5	14.2	15.6	16.6	16.0	18.0	17.2	14.4	13.4	12.4	10.9	11.6							
70	3.70	3.51	4.15	5.01	4.98	6.37	4.91	3.70	3.56	3.19	2.16	2.89							
75	0.38	0.31	0.51	0.59	0.33	0.85	0.66	0.40	0.44	0.41	0.13	0.34							
80	0.07	0.06	0.09	0.09	0.10	0.20	0.15	0.10	0.08	0.08	0.03	0.05							
85	0.04	0.03	0.03	0.03	0.04	0.06	0.05	0.05	0.03	0.03	0.01	0.02							
90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks: