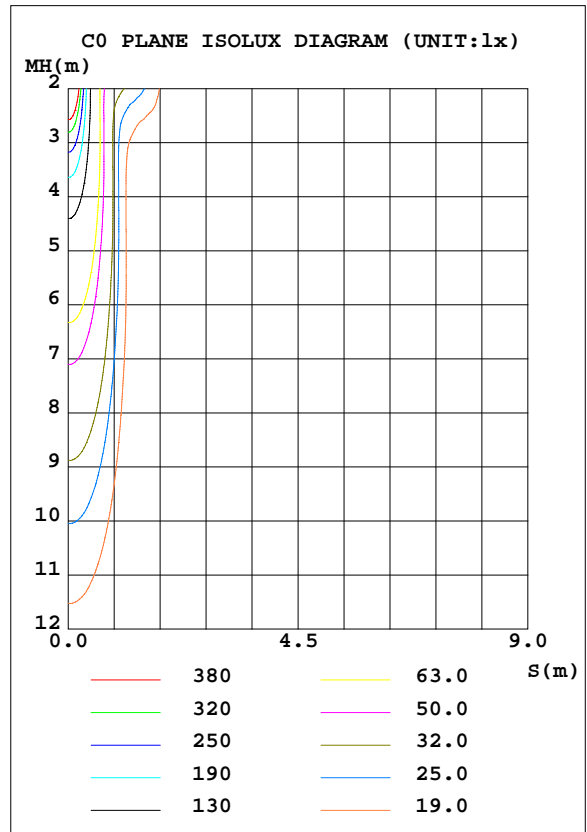
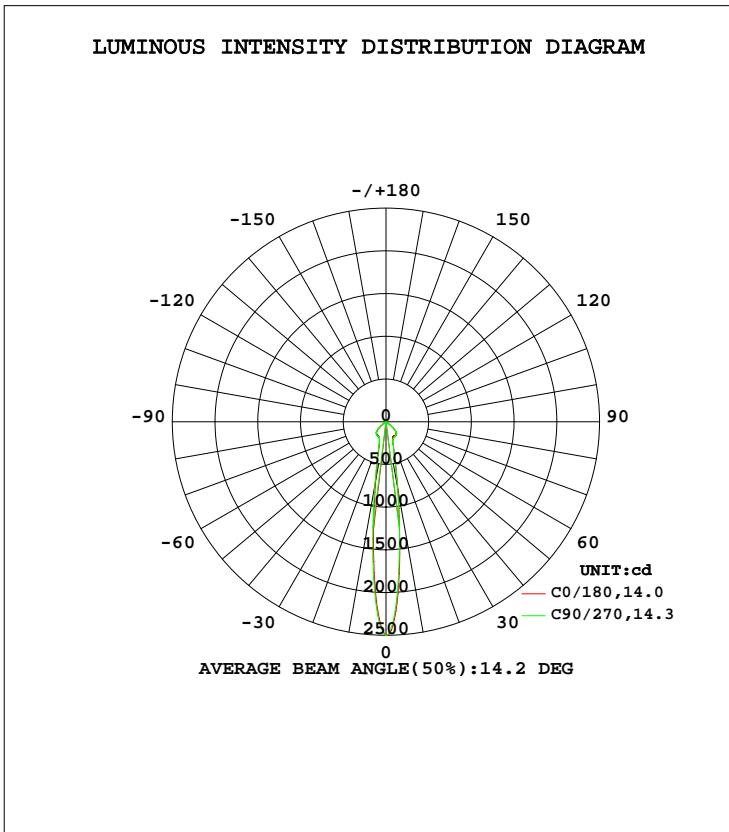


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: AR70-12度	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		I _{max} (cd)	2499	S/MH(C0/180)	0.23
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	0.25
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	607.03	η UP, DN(C0-180)	0.0,51.1
NOMINAL FLUX(lm)	607.029	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,48.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:27 August 2022

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:

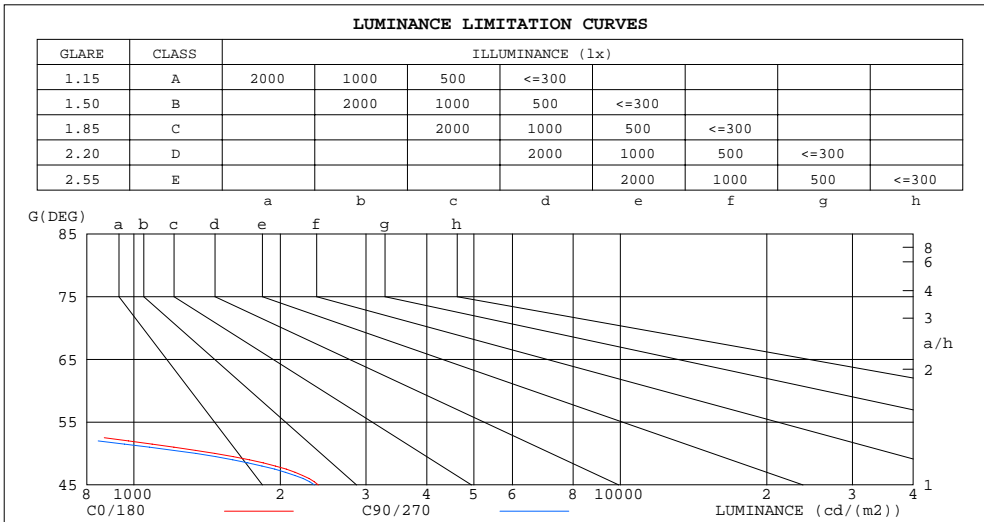
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	800.7	820.3	787.2	720.2	701.9	751.3	757.7	745.8	0- 10	131.3	131.3	21.6,21.6
20	229.4	232.1	239.1	234.2	220.6	222.9	229.4	226.7	10- 20	105.9	237.2	39.1,39.1
30	190.8	204.7	207.4	198.6	191.8	200.7	197.7	188.3	20- 30	94.47	331.7	54.6,54.6
40	185.8	197.6	188.0	182.4	172.7	180.9	180.9	181.9	30- 40	120.6	452.3	74.5,74.5
50	93.49	93.78	86.41	82.11	78.03	80.40	86.82	88.46	40- 50	116.1	568.4	93.6,93.6
60	12.08	12.52	12.01	11.15	11.22	11.85	12.71	11.68	50- 60	30.01	598.4	98.6,98.6
70	3.635	3.327	2.853	2.836	3.052	3.179	3.532	3.436	60- 70	7.186	605.6	99.8,99.8
80	0.2095	0.1900	0.1791	0.1734	0.1443	0.1525	0.1754	0.1850	70- 80	1.340	607.0	100,100
90	0.0123	0.0022	0.0110	0	0.0094	0.0022	0.0044	0.0029	80- 90	0.0678	607.0	100,100
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									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:27 August 2022

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: AR70-12度	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8	4
80	12	10
75	52	23
70	107	83
65	176	179
60	244	240
55	494	434
50	1467	1342
45	2393	2350

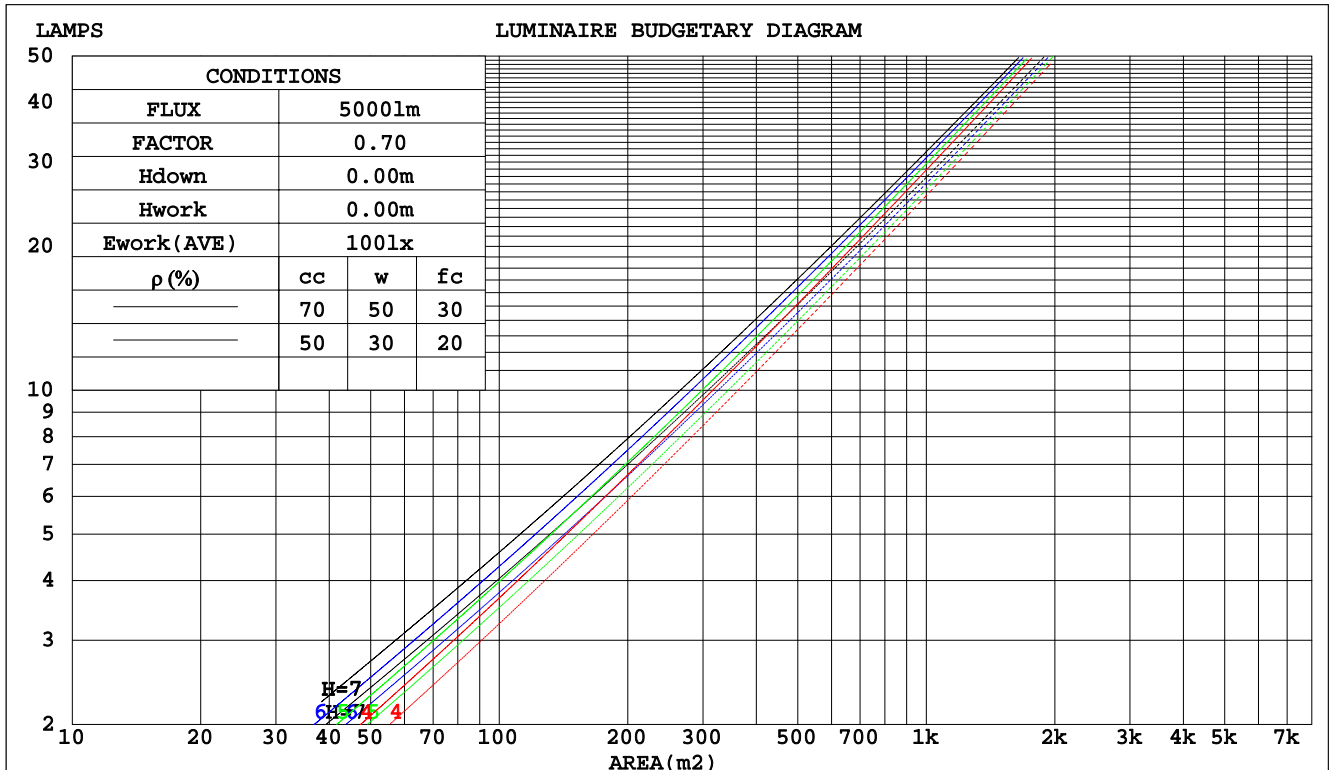
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: fu
 Test Date: 27 August 2022

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: AR70-12度	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	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															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.10	1.08	1.05	1.08	1.06	1.03	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.94	.93
2.0	1.02	.97	.94	.90	.96	.93	.97	.93	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.94	.89	.84	.93	.88	.84	.90	.86	.82	.87	.84	.81	.85	.82	.80	.78
4.0	.87	.81	.77	.86	.81	.76	.84	.79	.75	.82	.78	.74	.80	.76	.74	.72
5.0	.81	.75	.70	.80	.74	.70	.78	.73	.69	.77	.72	.69	.75	.71	.68	.67
6.0	.76	.70	.65	.75	.69	.65	.74	.68	.64	.72	.68	.64	.71	.67	.64	.62
7.0	.71	.65	.61	.71	.65	.60	.69	.64	.60	.68	.63	.60	.67	.63	.59	.58
8.0	.67	.61	.57	.67	.61	.57	.66	.60	.56	.65	.60	.56	.64	.59	.56	.54
9.0	.64	.58	.53	.63	.57	.53	.62	.57	.53	.61	.56	.53	.60	.56	.53	.51
10.0	.60	.55	.51	.60	.54	.50	.59	.54	.50	.58	.54	.50	.58	.53	.50	.49



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:27 August 2022

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: AR70-12度	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	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	.190	.108	.034	.183	.104	.033	.170	.098	.031	.159	.092	.029	.148	.086	.028	
2.0	.184	.101	.031	.178	.098	.030	.168	.093	.029	.158	.089	.028	.149	.084	.027	
3.0	.176	.094	.028	.171	.092	.028	.162	.088	.027	.153	.084	.026	.145	.081	.025	
4.0	.167	.087	.026	.163	.085	.025	.155	.082	.025	.148	.079	.024	.141	.077	.023	
5.0	.159	.081	.023	.155	.080	.023	.148	.077	.023	.142	.075	.022	.136	.072	.022	
6.0	.151	.076	.022	.147	.074	.021	.141	.072	.021	.135	.070	.021	.130	.068	.020	
7.0	.143	.071	.020	.140	.070	.020	.135	.068	.020	.130	.066	.019	.125	.065	.019	
8.0	.136	.066	.019	.133	.066	.019	.128	.064	.018	.124	.063	.018	.119	.061	.018	
9.0	.129	.062	.017	.127	.062	.017	.122	.061	.017	.118	.059	.017	.114	.058	.017	
10.0	.123	.059	.016	.121	.058	.016	.117	.057	.016	.113	.056	.016	.110	.055	.016	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.137	.099	.070	.117	.086	.061	.081	.060	.043	.047	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.050	.076	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.121	.079	.048	.104	.068	.042	.072	.048	.030	.042	.028	.018	.013	.009	.006	
7.0	.114	.071	.041	.098	.062	.036	.068	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.108	.065	.035	.093	.056	.031	.065	.040	.022	.038	.023	.013	.012	.008	.004	
9.0	.103	.060	.030	.089	.052	.027	.061	.036	.019	.036	.022	.011	.012	.007	.004	
10.0	.098	.055	.027	.084	.048	.023	.059	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:27 August 2022

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: AR70-12度		TYPE:					WEIGHT:				
SPEC.:		DIM.:					SERIAL No.:				
MFR.: EVERFINE		SUR.:0.005					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	13.3	14.3	13.5	14.5	14.7	13.2	14.2	13.4	14.4	14.6	
3H	13.2	14.1	13.4	14.3	14.5	13.0	14.0	13.3	14.2	14.4	
4H	13.1	14.0	13.4	14.2	14.4	13.0	13.9	13.2	14.1	14.3	
6H	13.0	13.8	13.3	14.1	14.3	12.9	13.7	13.2	13.9	14.2	
8H	12.9	13.7	13.3	14.0	14.3	12.8	13.6	13.1	13.9	14.1	
12H	12.9	13.7	13.2	13.9	14.2	12.8	13.5	13.1	13.8	14.1	
4H 2H	13.1	14.0	13.4	14.2	14.4	13.0	13.9	13.3	14.1	14.3	
3H	13.0	13.7	13.3	14.0	14.3	12.8	13.6	13.2	13.9	14.2	
4H	12.9	13.6	13.2	13.9	14.2	12.8	13.4	13.1	13.8	14.1	
6H	12.8	13.4	13.2	13.7	14.1	12.7	13.3	13.0	13.6	14.0	
8H	12.7	13.3	13.1	13.6	14.0	12.6	13.2	13.0	13.5	13.9	
12H	12.7	13.2	13.1	13.6	14.0	12.6	13.1	13.0	13.4	13.8	
8H 4H	12.7	13.3	13.1	13.6	14.0	12.6	13.2	13.0	13.5	13.9	
6H	12.6	13.1	13.1	13.5	13.9	12.5	13.0	12.9	13.4	13.8	
8H	12.6	13.0	13.0	13.4	13.8	12.5	12.9	12.9	13.3	13.7	
12H	12.5	12.9	13.0	13.3	13.8	12.4	12.8	12.9	13.2	13.7	
12H 4H	12.7	13.2	13.1	13.6	14.0	12.6	13.1	13.0	13.5	13.8	
6H	12.6	13.0	13.0	13.4	13.8	12.5	12.9	12.9	13.3	13.7	
8H	12.5	12.9	13.0	13.3	13.8	12.4	12.8	12.9	13.2	13.7	
Variations with the observer position at spacings:											
S = 1.0H	+ 2.9 / - 7.4					+ 2.9 / - 7.9					
1.5H	+ 2.2 / - 7.3					+ 2.2 / - 7.4					
2.0H	+ 5.8 / - 9.4					+ 6.0 / - 9.1					

CIE Pub.117, 607.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.7)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:27 August 2022

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: AR70-12度	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:

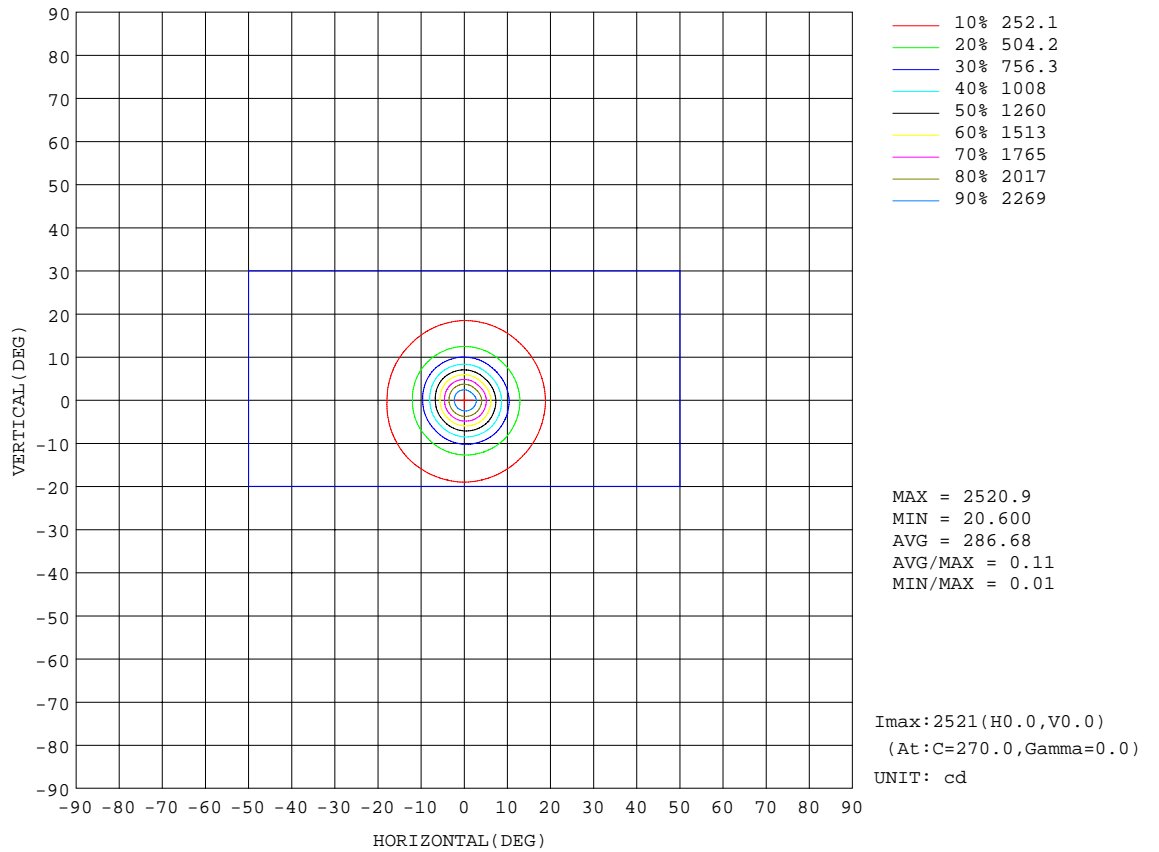
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	75	67	62	75	67	62	74	66	61	57
0.80	85	77	72	84	76	71	82	76	71	66
1.00	92	84	79	91	84	79	89	84	79	74
1.25	97	90	86	96	90	86	94	89	85	80
1.50	101	95	90	100	94	90	97	92	89	83
2.00	105	100	96	104	99	95	101	97	94	88
2.50	107	103	99	106	101	98	102	99	96	89
3.00	109	105	102	108	104	101	104	101	98	92
4.00	112	108	105	110	107	104	106	103	101	94
5.00	113	110	108	111	108	106	107	105	103	95
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:27 August 2022

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: AR70-12度	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:



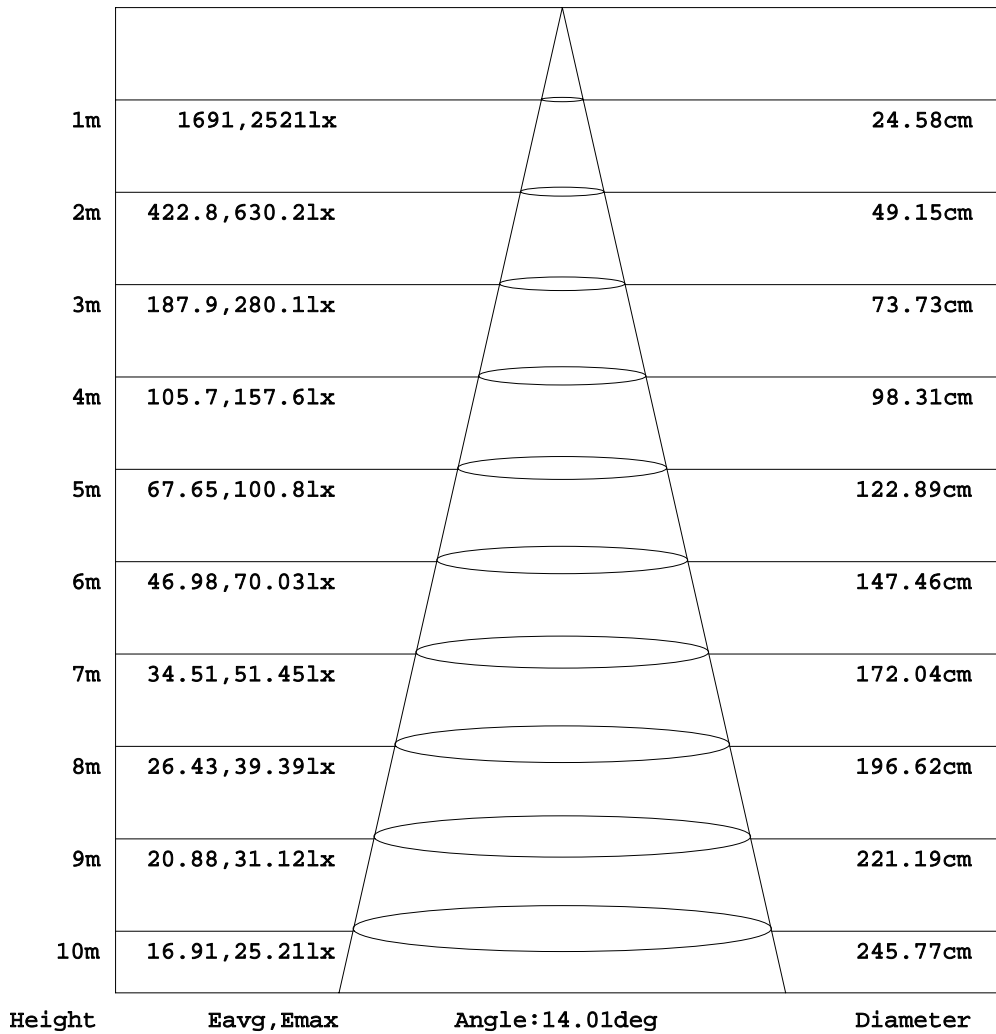
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: fu
 Test Date: 27 August 2022

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 Figure

NAME: AR70-12度	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:

Flux out:92.09 lm



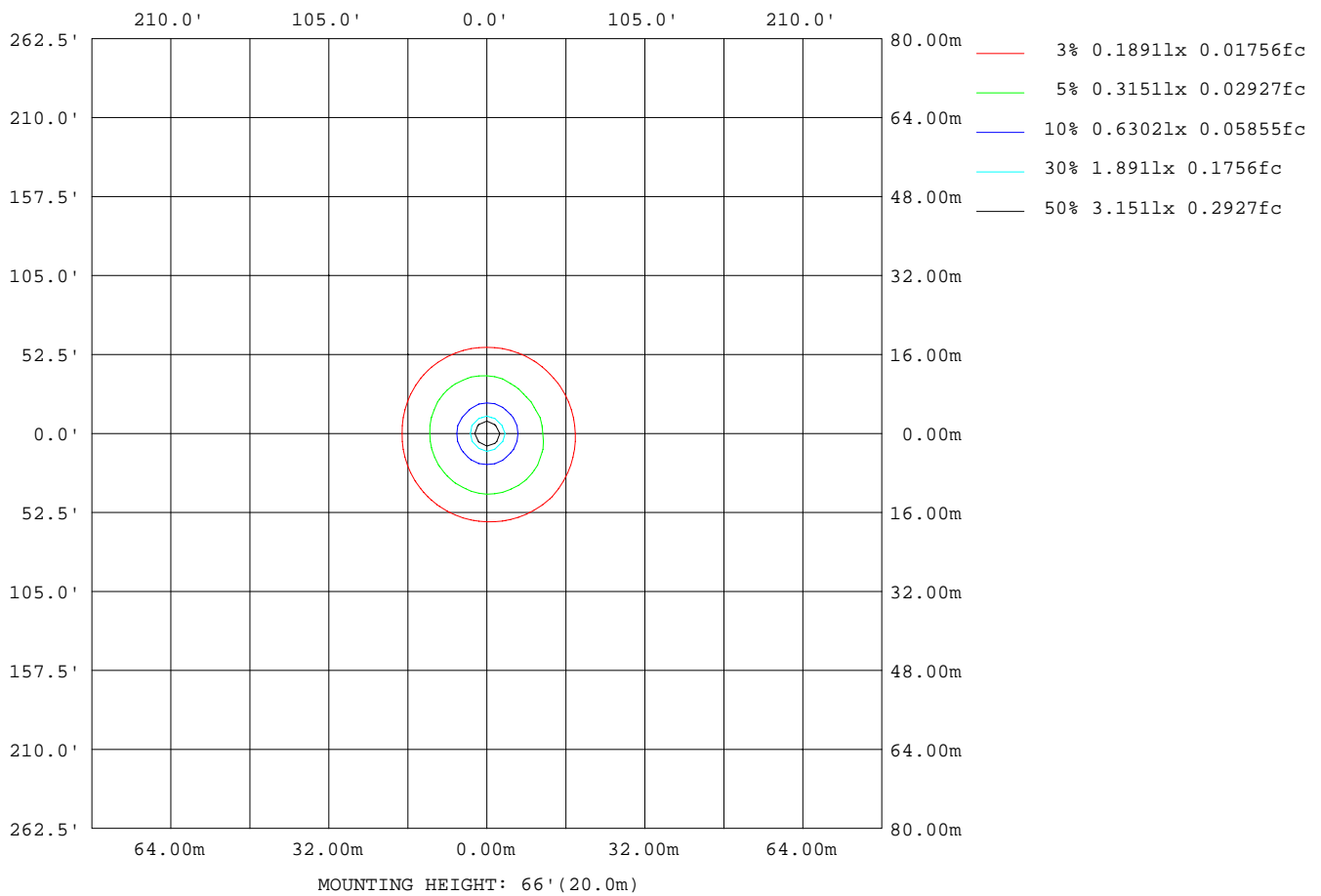
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:27 August 2022

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: AR70-12度	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:27 August 2022

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: AR70-12度	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:

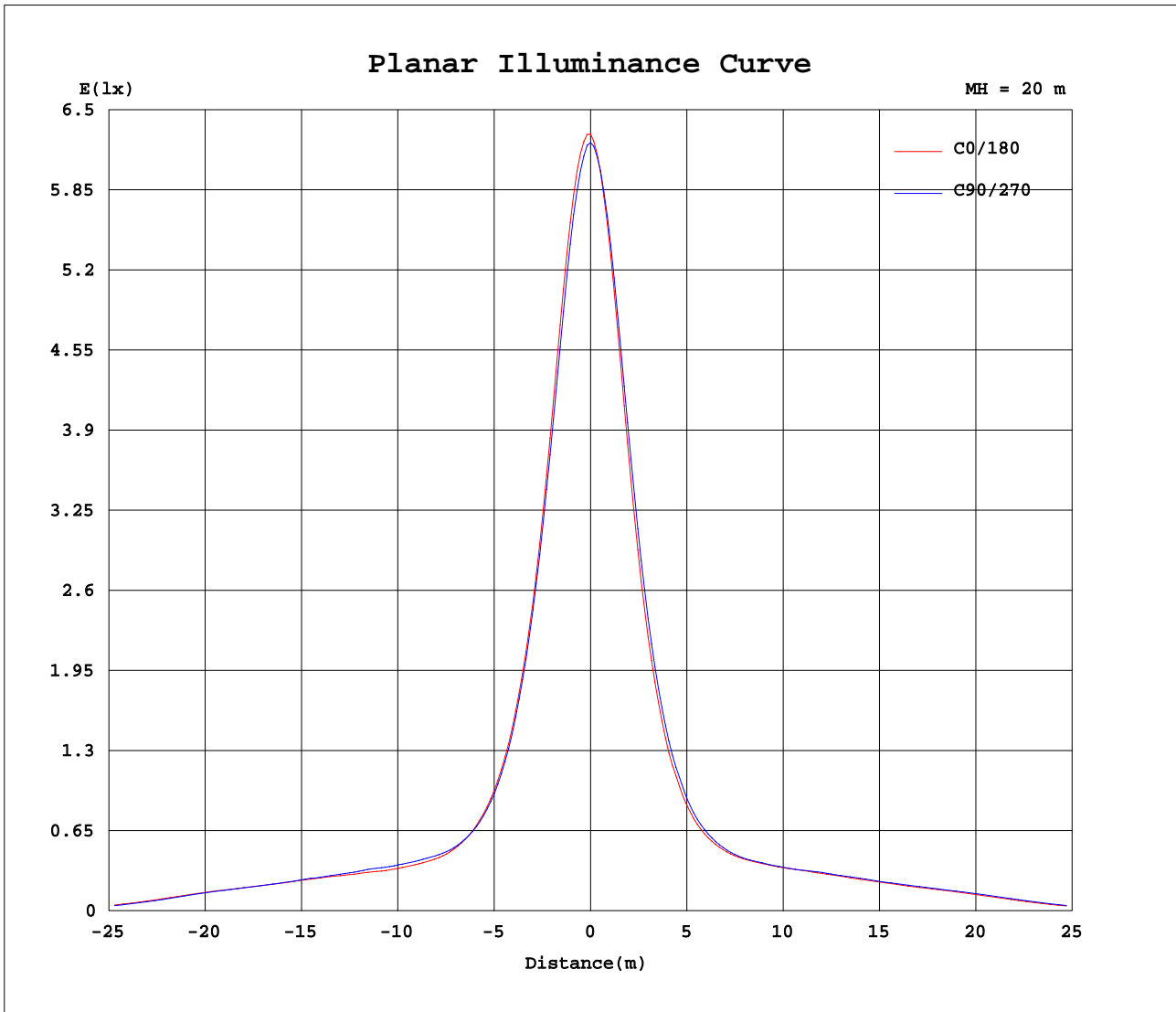
AvgL	cd/m2
L_0~180(65)av	167
L_0~180(75)av	40
L_0~180(85)av	6
L_90~270(65)av	181
L_90~270(75)av	26
L_90~270(85)av	3
L_45(65)av	172
L_45(75)av	29
L_45(85)av	5

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:27 August 2022

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: 45.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: fu
 Test Date: 27 August 2022

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:

