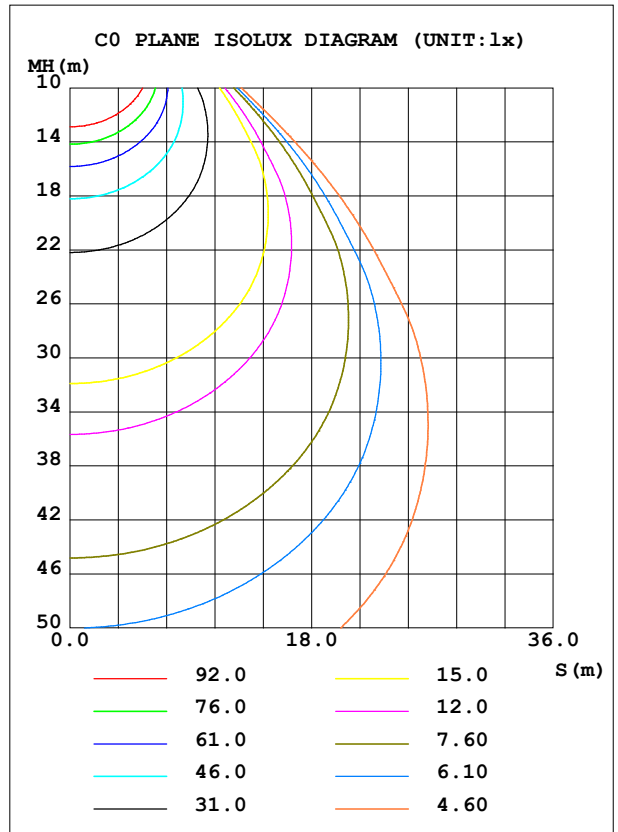
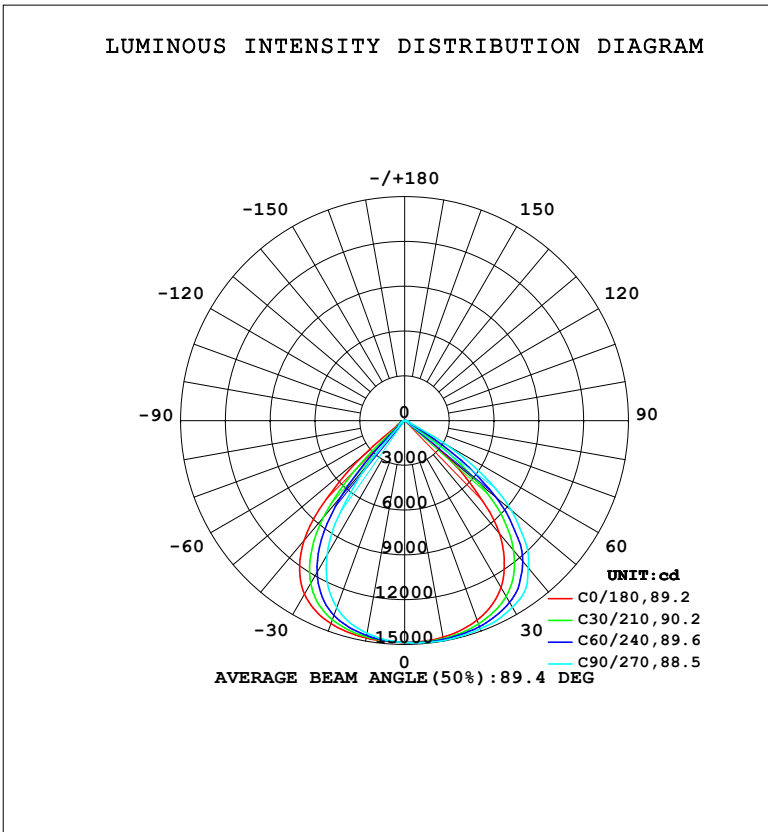


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:219.96V I:0.9252A P:203.06W PF:0.9977 Freq:50.00Hz Lamp Flux:26528.3x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	415	Imax (cd)	14958	S/MH (C0/180)	1.30
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.02
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	26528	η UP, DN (C0-180)	0.0, 61.1
NOMINAL FLUX (lm)	26528.3	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 38.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	219.5	η down (%)	100.0	CIBSE SHR MAX	1.25



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-12-09

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 9.401m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1473	1486	1496	1491	1478	1465	1446	1449	0- 10	1412	1412	5.32,5.32
20	1421	1461	1484	1479	1447	1402	1333	1348	10- 20	4107	5520	20.8,20.8
30	1291	1388	1444	1430	1342	1212	1041	1095	20- 30	6283	11802	44.5,44.5
40	987.3	1199	1290	1257	1048	740.9	373.0	550.6	30- 40	7048	18850	71.1,71.1
50	344.1	752.3	933.5	838.0	357.4	65.07	47.73	55.25	40- 50	5070	23920	90.2,90.2
60	44.92	66.93	312.0	128.2	49.90	33.61	27.18	29.99	50- 60	2036	25956	97.8,97.8
70	23.45	26.16	31.58	29.86	24.17	15.26	11.46	14.17	60- 70	392.1	26348	99.3,99.3
80	6.998	8.487	12.37	11.12	6.648	4.577	2.612	4.835	70- 80	144.8	26493	99.9,99.9
90	0.2286	0.6240	0.9714	1.111	0.3094	0.9610	0.9762	1.228	80- 90	35.40	26528	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:X10cd									UNIT:lm		

Conical surface Flux(90deg): 21784 lm

%lum = 82.1%

%lamp = 82.1%

Conical surface Flux(130deg): 26211 lm

%lum = 98.8%

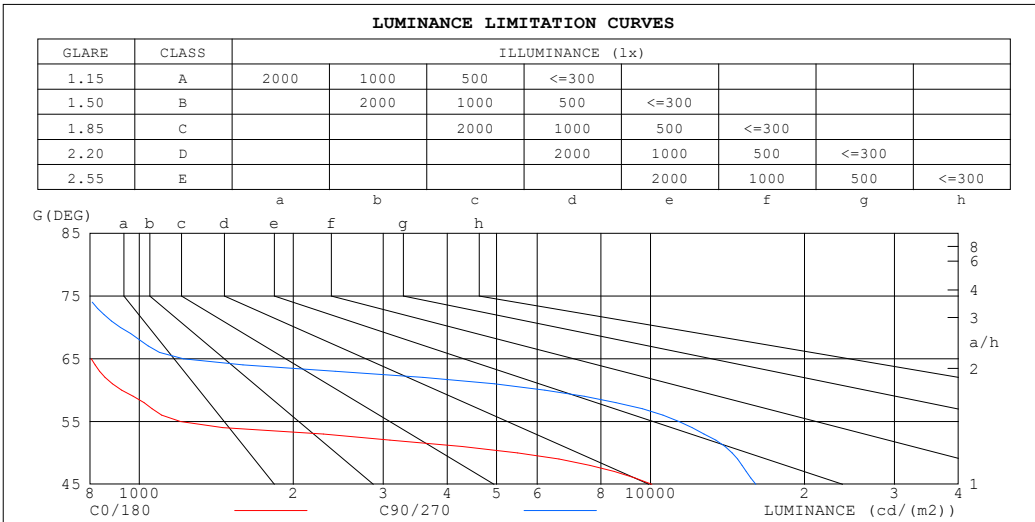
%lamp = 98.8%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-12-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:219.96V I:0.9252A P:203.06W PF:0.9977 Freq:50.00Hz Lamp Flux:26528.3x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	273	603
80	414	709
75	588	791
70	705	919
65	806	1220
60	923	6209
55	1204	11376
50	5500	14449
45	10055	16067

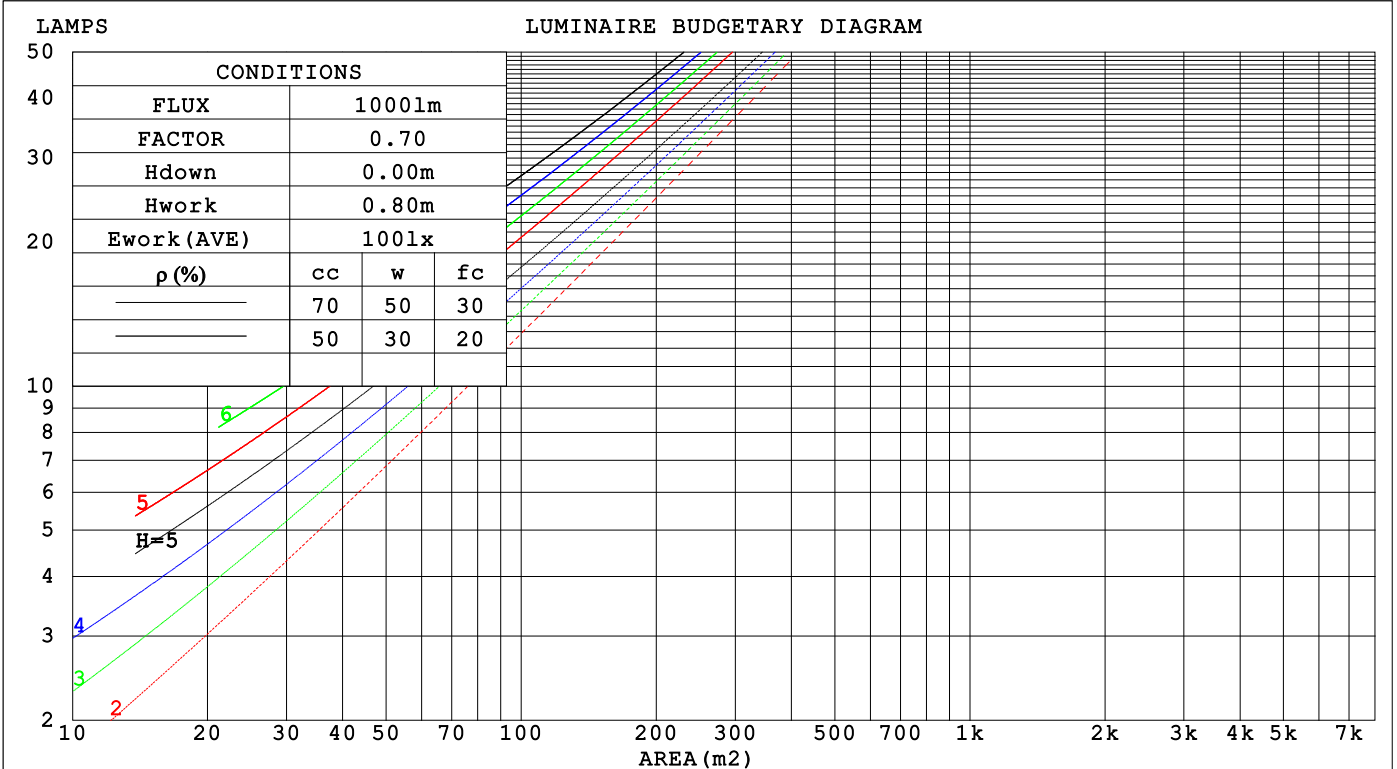
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-12-09

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:219.96V I:0.9252A P:203.06W PF:0.9977 Freq:50.00Hz Lamp Flux:26528.3x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.09	1.06	1.03	1.07	1.04	1.01	1.03	1.00	.98	.99	.97	.95	.95	.94	.93	.91
2.0	.99	.94	.90	.97	.93	.89	.94	.90	.87	.91	.88	.85	.88	.85	.83	.81
3.0	.90	.84	.79	.89	.83	.78	.86	.81	.77	.83	.79	.76	.81	.77	.75	.73
4.0	.82	.75	.70	.81	.74	.70	.79	.73	.69	.76	.72	.68	.74	.70	.67	.65
5.0	.75	.68	.62	.74	.67	.62	.72	.66	.62	.70	.65	.61	.69	.64	.60	.59
6.0	.69	.61	.56	.68	.61	.56	.66	.60	.55	.65	.59	.55	.63	.58	.55	.53
7.0	.63	.56	.51	.62	.56	.51	.61	.55	.50	.60	.54	.50	.59	.53	.50	.48
8.0	.58	.51	.46	.58	.51	.46	.57	.50	.46	.55	.50	.46	.54	.49	.45	.44
9.0	.54	.47	.42	.53	.47	.42	.52	.46	.42	.51	.46	.42	.51	.45	.42	.40
10.0	.50	.43	.39	.50	.43	.39	.49	.43	.38	.48	.42	.38	.47	.42	.38	.37



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-12-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

Test:U:219.96V I:0.9252A P:203.06W PF:0.9977 Freq:50.00Hz		
Lamp Flux:26528.3x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

$\rho_{CC}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.215	.122	.039	.208	.119	.038	.196	.112	.036	.184	.106	.034	.173	.100	.032	
2.0	.210	.115	.035	.204	.113	.035	.193	.108	.033	.183	.103	.032	.174	.098	.031	
3.0	.202	.107	.032	.197	.105	.032	.187	.101	.031	.178	.098	.030	.170	.094	.029	
4.0	.193	.100	.029	.188	.098	.029	.180	.095	.028	.172	.092	.028	.165	.090	.027	
5.0	.183	.093	.027	.179	.092	.027	.172	.089	.026	.165	.087	.026	.159	.085	.025	
6.0	.174	.087	.025	.171	.086	.025	.164	.084	.024	.158	.082	.024	.152	.080	.024	
7.0	.166	.082	.023	.162	.081	.023	.157	.079	.023	.151	.077	.023	.146	.076	.022	
8.0	.157	.077	.022	.155	.076	.022	.149	.075	.021	.144	.073	.021	.140	.072	.021	
9.0	.150	.073	.020	.147	.072	.020	.143	.071	.020	.138	.069	.020	.134	.068	.020	
10.0	.143	.069	.019	.141	.068	.019	.136	.067	.019	.132	.066	.019	.128	.065	.019	

$\rho_{CC}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	.174	.157	.142	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.161	.132	.108	.138	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.151	.114	.084	.130	.098	.073	.089	.068	.051	.051	.040	.030	.017	.013	.010	
4.0	.143	.100	.067	.123	.086	.058	.084	.060	.041	.049	.035	.024	.016	.011	.008	
5.0	.135	.089	.054	.116	.077	.047	.080	.054	.033	.046	.031	.020	.015	.010	.007	
6.0	.129	.080	.045	.111	.069	.039	.076	.048	.028	.044	.029	.016	.014	.009	.005	
7.0	.123	.073	.038	.106	.063	.033	.073	.044	.023	.042	.026	.014	.014	.009	.005	
8.0	.117	.067	.032	.101	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.112	.062	.028	.097	.054	.024	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.107	.058	.025	.093	.050	.022	.064	.035	.015	.037	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-12-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:219.96V I:0.9252A P:203.06W PF:0.9977 Freq:50.00Hz Lamp Flux:26528.3x1 lm		
NAME:	TYPE: 投光灯	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	7.3	8.5	7.5	8.7	8.8	9.7	11.0	10.0	11.1	11.3
3H	7.1	8.2	7.4	8.4	8.6	9.6	10.7	9.9	10.9	11.1
4H	7.0	8.1	7.3	8.3	8.5	9.5	10.5	9.8	10.8	11.0
6H	7.0	7.9	7.3	8.2	8.4	9.4	10.4	9.7	10.6	10.9
8H	6.9	7.8	7.2	8.1	8.4	9.4	10.3	9.7	10.6	10.8
12H	6.9	7.7	7.2	8.0	8.3	9.3	10.2	9.7	10.5	10.8
4H 2H	7.2	8.2	7.5	8.4	8.7	9.5	10.5	9.8	10.8	11.0
3H	7.0	7.9	7.4	8.2	8.5	9.4	10.2	9.7	10.5	10.8
4H	7.0	7.8	7.3	8.1	8.4	9.3	10.1	9.6	10.4	10.7
6H	6.9	7.6	7.3	7.9	8.3	9.2	9.9	9.6	10.2	10.6
8H	6.8	7.5	7.2	7.8	8.2	9.2	9.8	9.6	10.2	10.5
12H	6.8	7.4	7.2	7.8	8.2	9.1	9.7	9.5	10.1	10.5
8H 4H	6.8	7.5	7.2	7.8	8.2	9.1	9.8	9.5	10.1	10.5
6H	6.8	7.3	7.2	7.7	8.1	9.1	9.6	9.5	10.0	10.4
8H	6.7	7.2	7.2	7.6	8.1	9.0	9.5	9.5	9.9	10.4
12H	6.7	7.1	7.2	7.5	8.0	9.0	9.4	9.5	9.8	10.3
12H 4H	6.8	7.4	7.2	7.8	8.2	9.1	9.7	9.5	10.1	10.5
6H	6.7	7.2	7.2	7.6	8.1	9.0	9.5	9.5	9.9	10.4
8H	6.7	7.1	7.2	7.5	8.0	9.0	9.4	9.5	9.8	10.3

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 2.6 / - 9.0	+ 1.1 / - 1.6
1.5H	+ 1.4 / - 6.0	+ 0.9 / - 1.8
2.0H	+ 4.8 / - 9.3	+ 3.2 / -11.8

CIE Pub.117, 26528 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.4)  
Area: 1 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:DAMIN  
Test Date:2023-12-09

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity:65.0%  
Test Distance:9.401m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:219.96V I:0.9252A P:203.06W PF:0.9977 Freq:50.00Hz Lamp Flux:26528.3x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

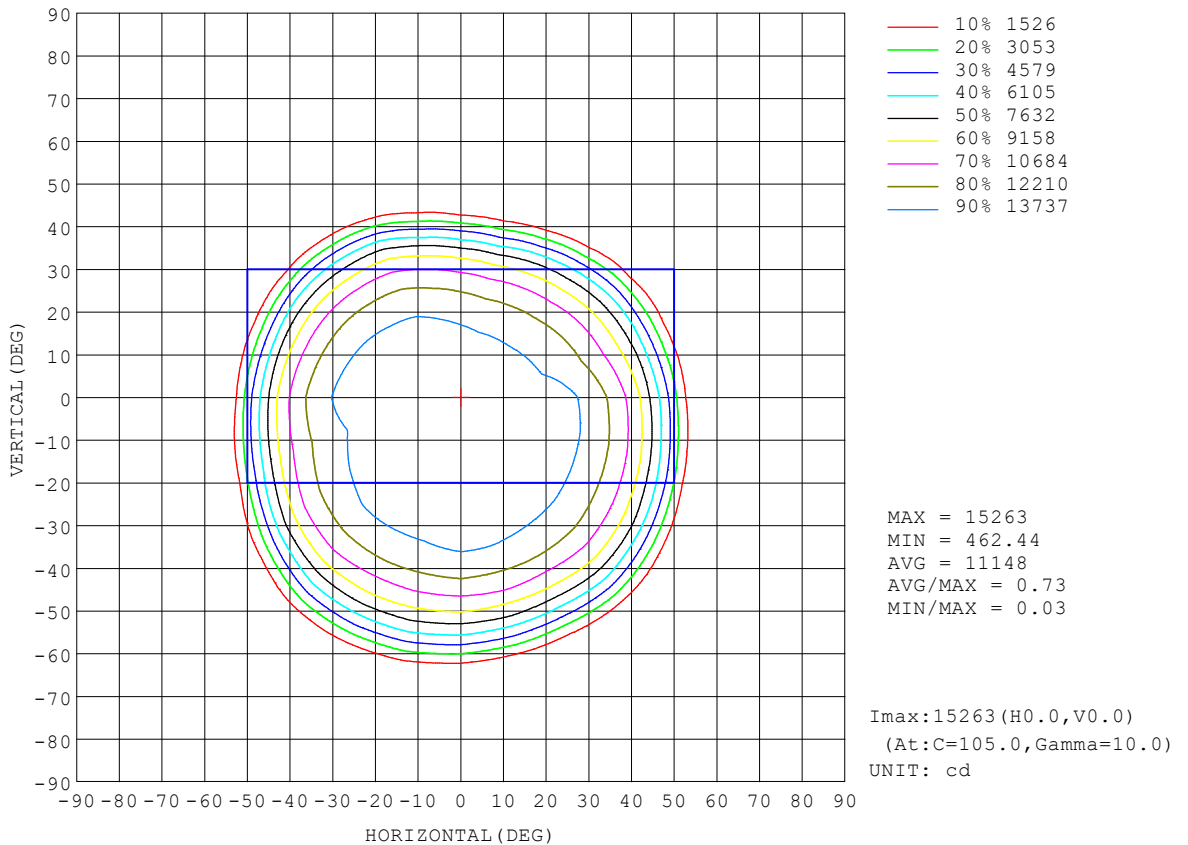
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	73	64	59	72	64	58	71	63	58	53
0.80	83	74	69	82	74	69	80	73	68	63
1.00	90	82	77	89	82	77	87	82	76	71
1.25	96	89	84	95	88	84	92	87	83	77
1.50	100	93	89	98	92	88	96	91	87	81
2.00	104	99	95	103	98	94	100	96	92	86
2.50	107	102	98	105	100	97	102	98	95	88
3.00	109	104	101	107	103	100	103	100	97	90
4.00	111	107	104	109	106	103	105	103	100	93
5.00	113	109	107	110	108	105	106	104	102	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-12-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:219.96V I:0.9252A P:203.06W PF:0.9977 Freq:50.00Hz Lamp Flux:26528.3x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



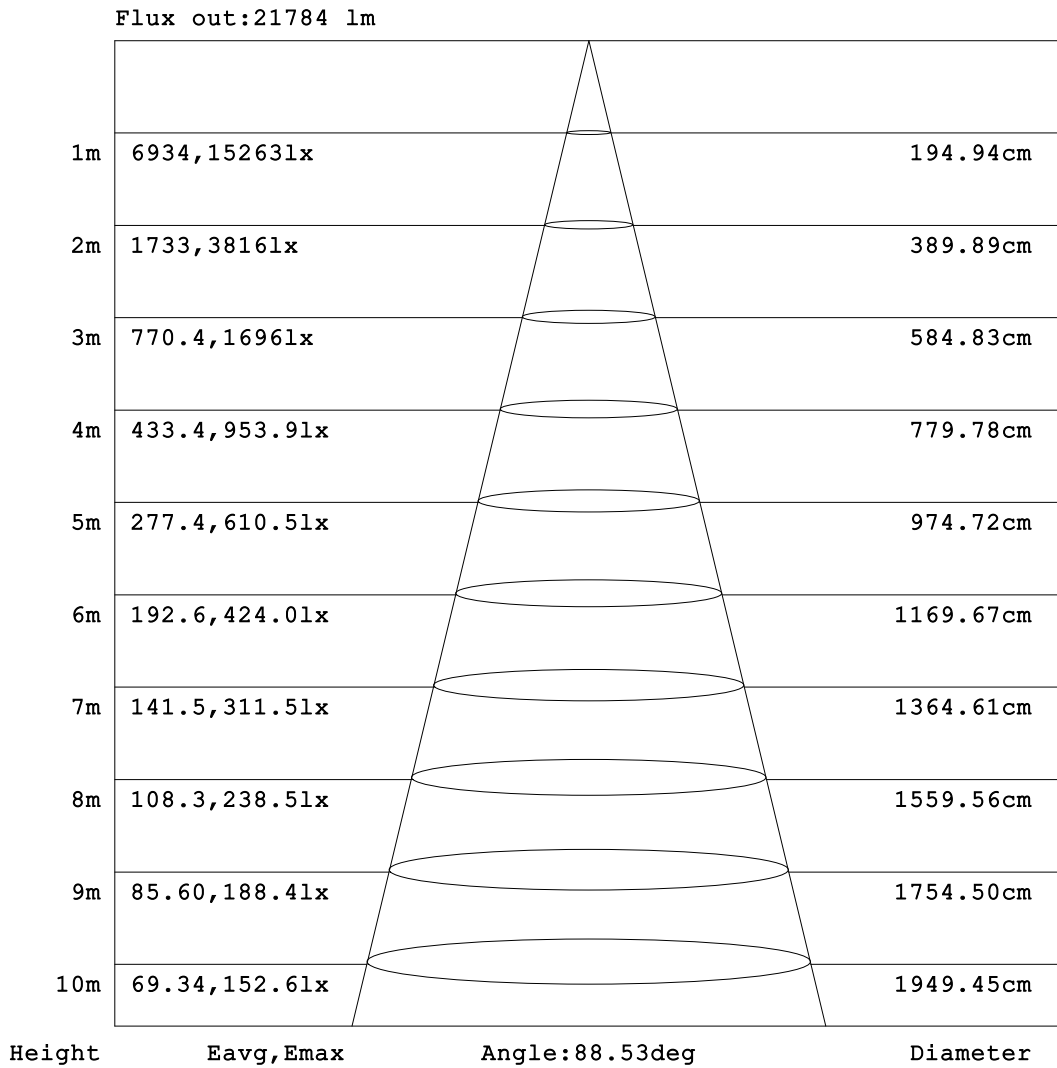
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-12-09

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:219.96V I:0.9252A P:203.06W PF:0.9977 Freq:50.00Hz Lamp Flux:26528.3x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



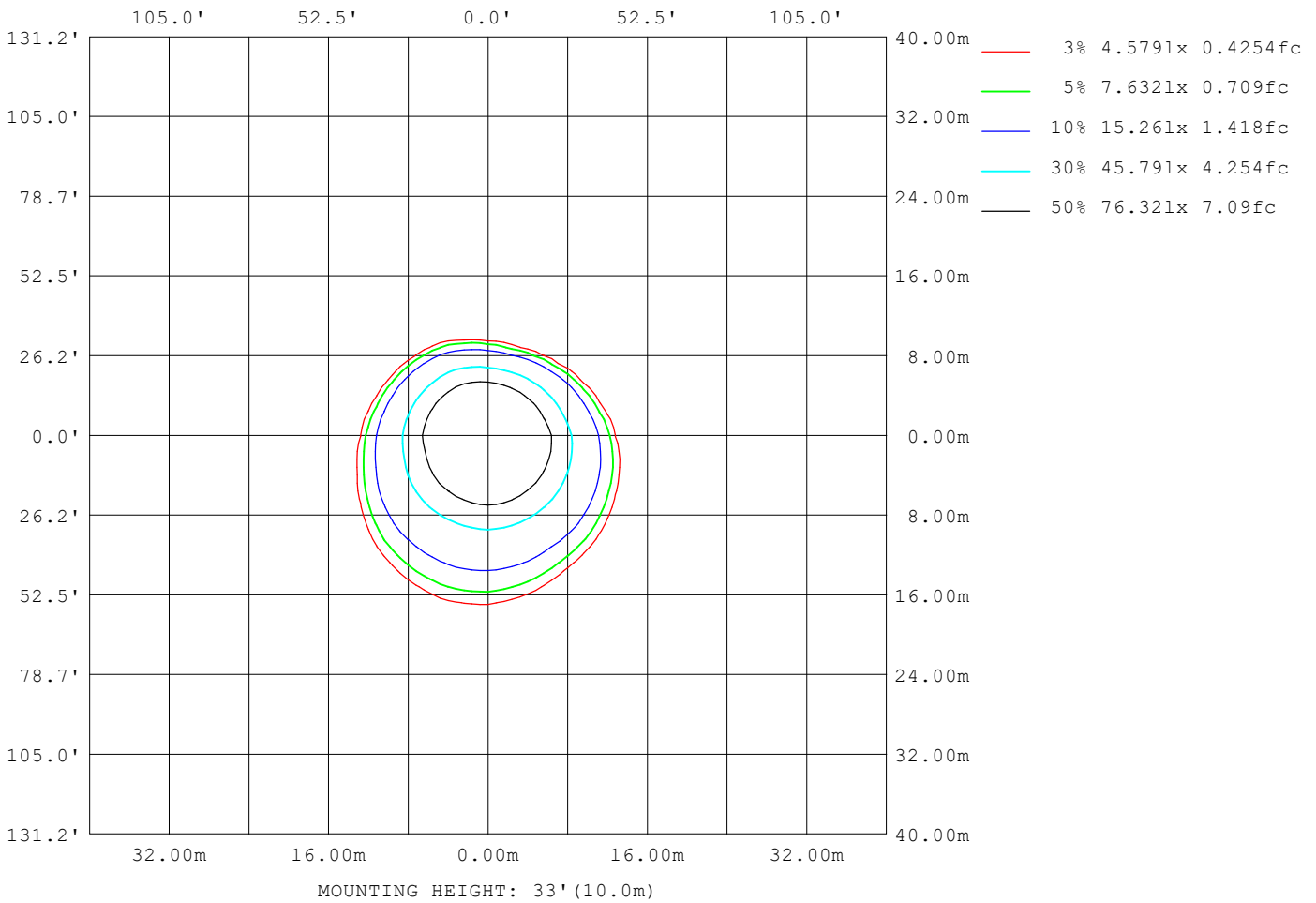
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:DAMIN  
Test Date:2023-12-09

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity:65.0%  
Test Distance:9.401m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:219.96V I:0.9252A P:203.06W PF:0.9977 Freq:50.00Hz Lamp Flux:26528.3x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-12-09

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:219.96V I:0.9252A P:203.06W PF:0.9977 Freq:50.00Hz Lamp Flux:26528.3x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

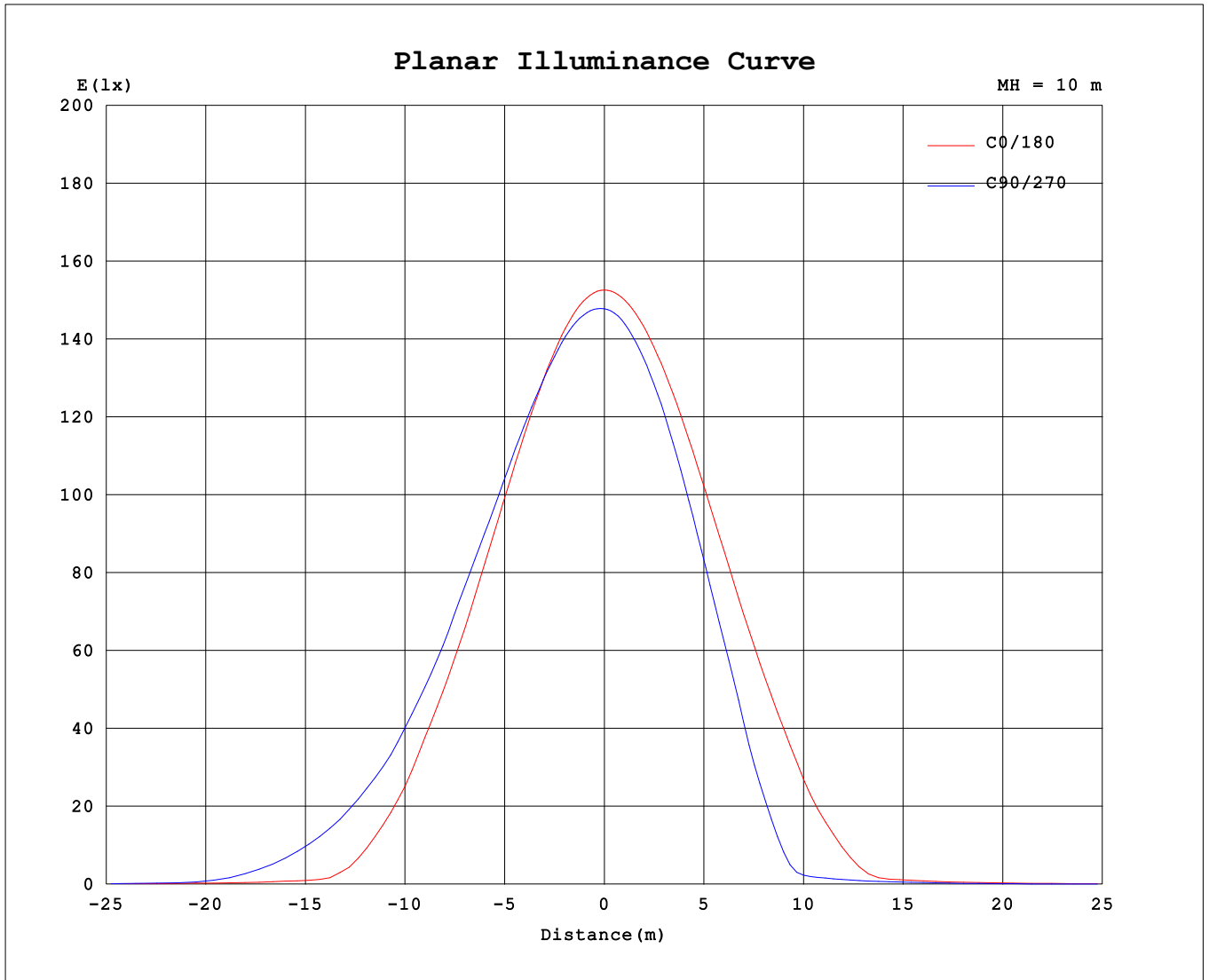
AvgL	cd/m2
L_0~180 (65) av	809
L_0~180 (75) av	573
L_0~180 (85) av	254
L_90~270 (65) av	840
L_90~270 (75) av	521
L_90~270 (85) av	389
L_45 (65) av	765
L_45 (75) av	518
L_45 (85) av	323

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:2023-12-09

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-12-09

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 9.401m [K=1.0000]  
 Remarks:



