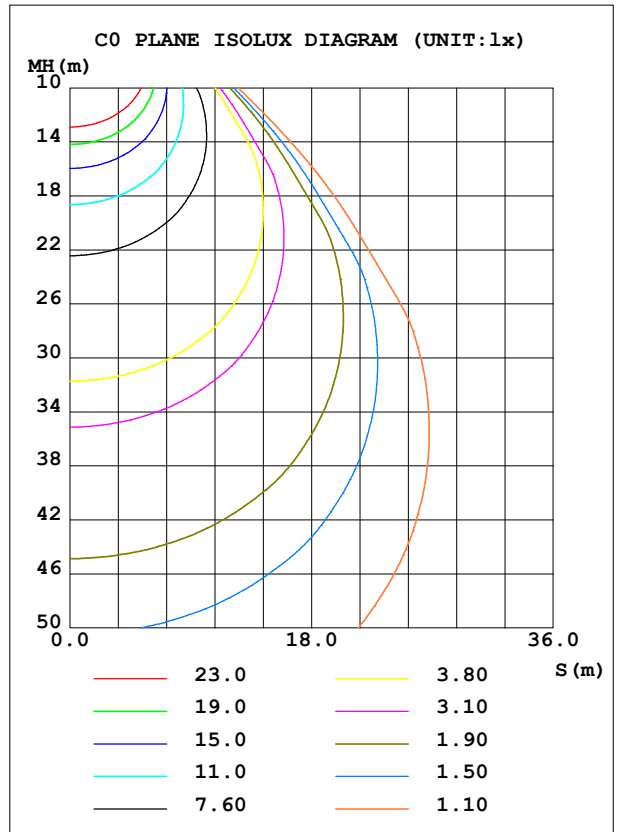
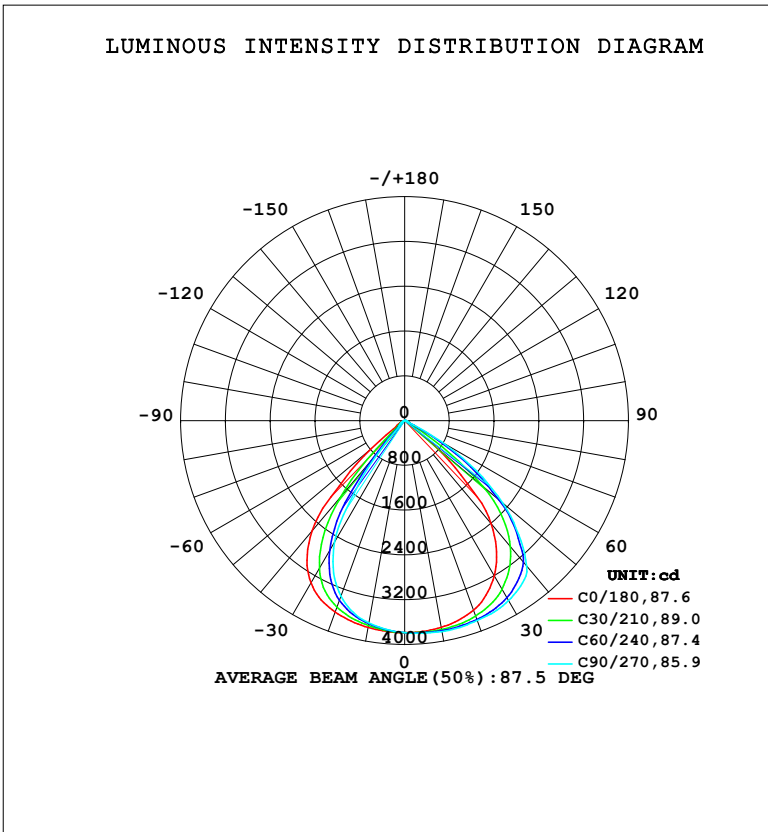


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.29V I:0.2341A P:51.135W PF:0.9914 Freq:50.00Hz Lamp Flux:6602.26x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.125	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 129.12 lm/W
MODEL	D0011	I <sub>max</sub> (cd)	3829	S/MH (C0/180)	1.28	
NOMINAL POWER (W)	50	LOR (%)	100.0	S/MH (C90/270)	0.97	
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	6602.3	η UP, DN (C0-180)	0.0, 63.3	
NOMINAL FLUX (lm)	6602.26	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 36.7	
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: 2023-12-08

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	3750	3800	3826	3793	3750	3696	3672	3683	0- 10	359.5	359.5	5.45,5.45
20	3603	3756	3799	3744	3638	3475	3334	3384	10- 20	1041	1401	21.2,21.2
30	3203	3585	3714	3616	3346	2844	2504	2708	20- 30	1577	2978	45.1,45.1
40	2409	3145	3393	3276	2572	1369	627.7	1267	30- 40	1729	4706	71.3,71.3
50	705.8	2094	2285	2237	779.5	140.9	111.8	123.2	40- 50	1230	5936	89.9,89.9
60	106.5	351.4	754.1	378.9	129.1	70.99	63.91	67.87	50- 60	533.9	6470	98,98
70	57.91	60.36	59.23	66.12	61.48	26.99	20.12	27.96	60- 70	98.13	6568	99.5,99.5
80	17.36	17.28	15.55	17.63	15.82	4.694	5.181	4.739	70- 80	28.93	6597	99.9,99.9
90	0.5308	0.6602	0.5731	0.6536	0.6918	2.653	2.365	2.221	80- 90	5.186	6602	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		

Conical surface Flux(90deg): 5410.9 lm

%lum = 82.0%

%lamp = 82.0%

Conical surface Flux(130deg): 6537.6 lm

%lum = 99.0%

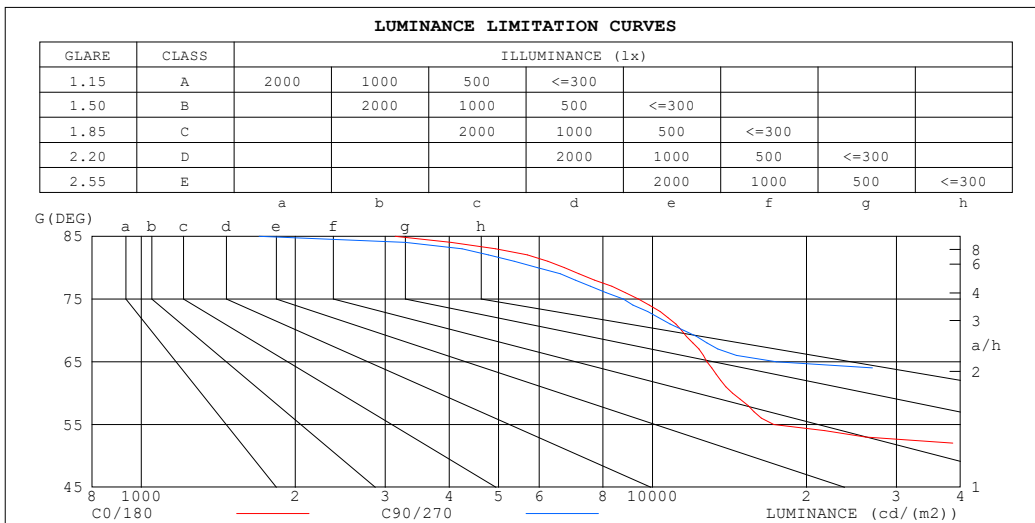
%lamp = 99.0%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-12-08

$\gamma$  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:220.29V I:0.2341A P:51.135W PF:0.9914 Freq:50.00Hz Lamp Flux:6602.26x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.125	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3134	1699
80	6728	5957
75	9383	8769
70	11397	11524
65	12775	17477
60	14344	100365
55	17264	182141
50	73913	236564
45	149923	270898

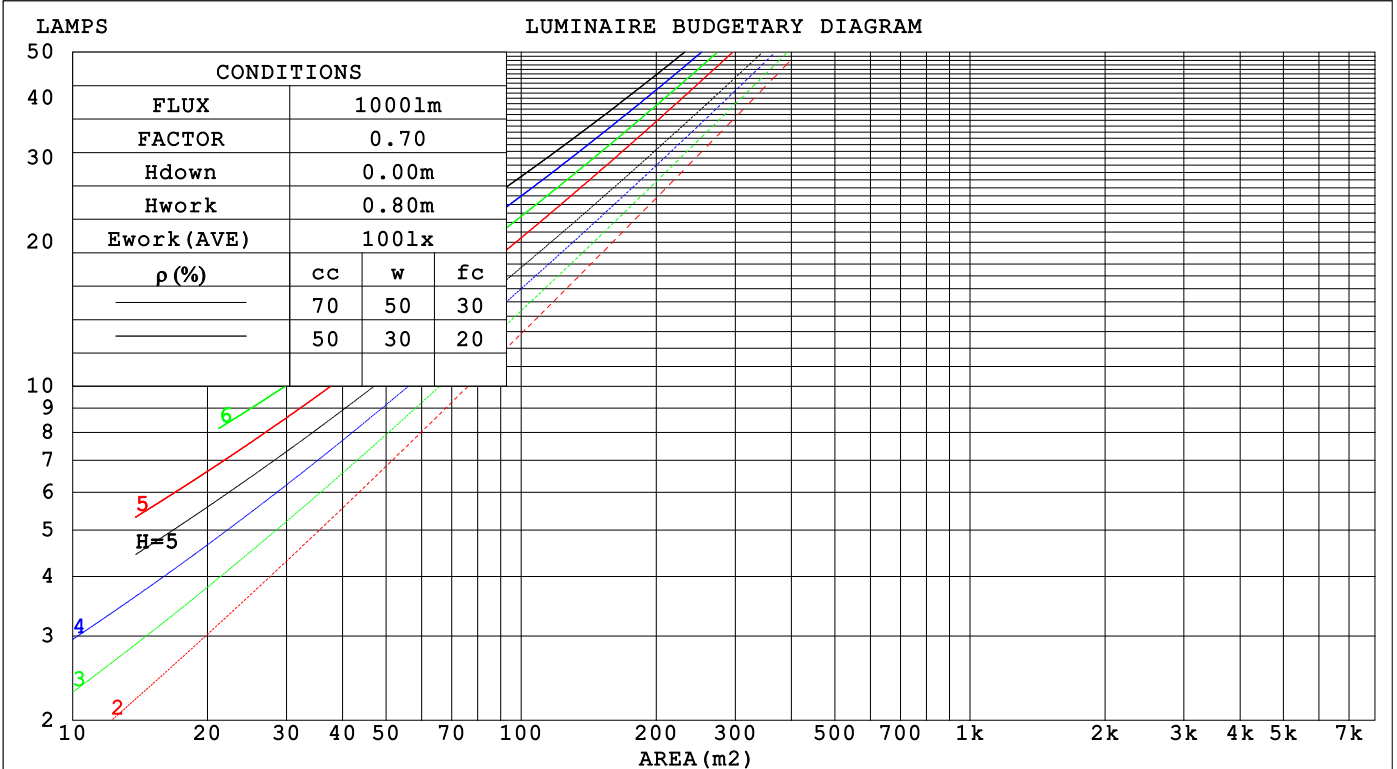
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-12-08

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:220.29V I:0.2341A P:51.135W PF:0.9914 Freq:50.00Hz Lamp Flux:6602.26x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.125	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      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	1.02	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	.78	.75	.73
4.0	.82	.75	.70	.81	.75	.70	.79	.73	.69	.77	.72	.68	.75	.70	.67	.65
5.0	.75	.68	.63	.74	.67	.62	.72	.66	.62	.70	.65	.61	.69	.64	.61	.59
6.0	.69	.62	.56	.68	.61	.56	.66	.60	.56	.65	.59	.55	.63	.59	.55	.53
7.0	.63	.56	.51	.63	.56	.51	.61	.55	.50	.60	.54	.50	.59	.54	.50	.48
8.0	.59	.51	.46	.58	.51	.46	.57	.50	.46	.56	.50	.46	.54	.49	.46	.44
9.0	.54	.47	.42	.54	.47	.42	.53	.46	.42	.52	.46	.42	.51	.46	.42	.40
10.0	.50	.44	.39	.50	.43	.39	.49	.43	.39	.48	.43	.39	.47	.42	.38	.37



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-12-08

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:

WEC AND CCEC

Test:U:220.29V I:0.2341A P:51.135W PF:0.9914 Freq:50.00Hz								
Lamp Flux:6602.26x1 lm								
NAME:			TYPE: 投光灯			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.:		
MFR.: EVERFINE			SUR.: 0.125			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	.214	.122	.039	.207	.118	.038	.194	.111	.036	.183	.105	.034	.172	.100	.032	
2.0	.209	.115	.035	.203	.112	.035	.193	.107	.033	.182	.102	.032	.173	.098	.031	
3.0	.201	.107	.032	.196	.105	.032	.187	.101	.031	.178	.097	.030	.170	.094	.029	
4.0	.192	.100	.029	.187	.098	.029	.179	.095	.028	.171	.092	.028	.164	.089	.027	
5.0	.183	.093	.027	.179	.092	.027	.171	.089	.026	.164	.087	.026	.158	.084	.025	
6.0	.174	.087	.025	.170	.086	.025	.164	.084	.024	.157	.082	.024	.152	.080	.024	
7.0	.165	.082	.023	.162	.081	.023	.156	.079	.023	.151	.077	.022	.145	.076	.022	
8.0	.157	.077	.022	.154	.076	.021	.149	.074	.021	.144	.073	.021	.139	.072	.021	
9.0	.149	.072	.020	.147	.072	.020	.142	.070	.020	.138	.069	.020	.134	.068	.020	
10.0	.142	.068	.019	.140	.068	.019	.136	.067	.019	.132	.065	.019	.128	.064	.018	

$\rho_{CC}$	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	.122	.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	.028	.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	.096	.054	.025	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.107	.058	.025	.092	.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:2023-12-08

$\gamma$  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:220.29V I:0.2341A P:51.135W PF:0.9914 Freq:50.00Hz Lamp Flux:6602.26x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.125	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	22.2	23.4	22.4	23.5	23.7	24.9	26.1	25.1	26.3	26.5
3H	22.0	23.1	22.3	23.3	23.5	24.7	25.8	25.0	26.0	26.2
4H	21.9	23.0	22.2	23.2	23.4	24.6	25.7	24.9	25.9	26.1
6H	21.8	22.8	22.2	23.1	23.3	24.5	25.5	24.8	25.8	26.0
8H	21.8	22.7	22.1	23.0	23.3	24.5	25.4	24.8	25.7	26.0
12H	21.7	22.6	22.1	22.9	23.2	24.4	25.3	24.8	25.6	25.9
4H 2H	22.2	23.2	22.5	23.4	23.7	24.7	25.7	25.0	25.9	26.2
3H	22.0	22.9	22.3	23.2	23.5	24.5	25.4	24.8	25.7	26.0
4H	21.9	22.7	22.3	23.0	23.4	24.4	25.2	24.8	25.5	25.8
6H	21.9	22.6	22.3	22.9	23.3	24.3	25.0	24.7	25.4	25.7
8H	21.8	22.5	22.2	22.8	23.2	24.3	24.9	24.7	25.3	25.7
12H	21.8	22.4	22.2	22.7	23.1	24.3	24.8	24.7	25.2	25.6
8H 4H	21.8	22.5	22.2	22.8	23.2	24.3	24.9	24.7	25.3	25.7
6H	21.7	22.3	22.2	22.7	23.1	24.2	24.7	24.6	25.1	25.6
8H	21.7	22.2	22.2	22.6	23.0	24.2	24.6	24.6	25.0	25.5
12H	21.7	22.1	22.1	22.5	23.0	24.1	24.5	24.6	25.0	25.4
12H 4H	21.8	22.4	22.2	22.7	23.1	24.2	24.8	24.7	25.2	25.6
6H	21.7	22.2	22.1	22.6	23.0	24.2	24.6	24.6	25.0	25.5
8H	21.7	22.1	22.1	22.5	23.0	24.1	24.5	24.6	25.0	25.4

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 2.6 / - 9.4	+ 1.2 / - 1.8
1.5H	+ 1.7 / - 7.8	+ 0.7 / - 0.7
2.0H	+ 4.5 / -10.3	+ 2.8 / -13.1

CIE Pub.117, 6602 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 6.6)  
Area: 0.015 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:DAMIN  
Test Date:2023-12-08

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:220.29V I:0.2341A P:51.135W PF:0.9914 Freq:50.00Hz Lamp Flux:6602.26x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.125	Shielding Angle:

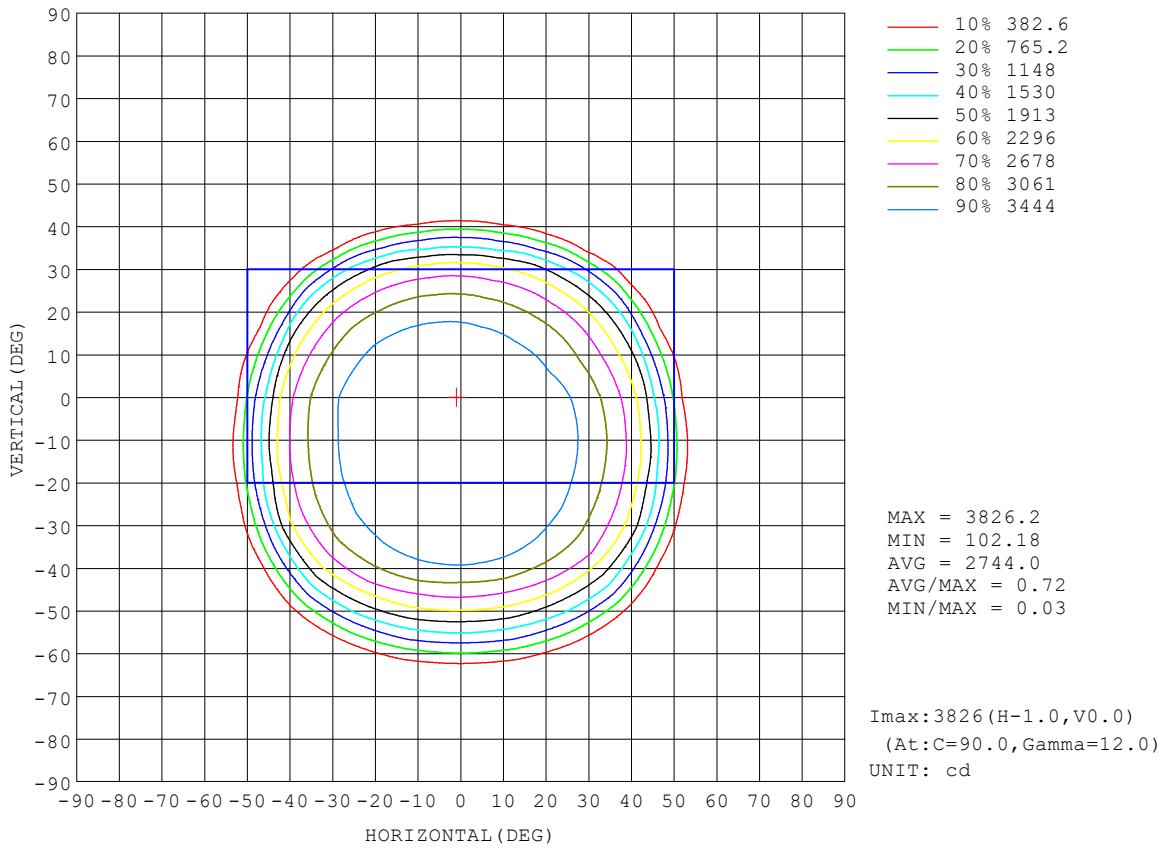
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	73	64	59	72	64	59	71	63	58	53
0.80	83	74	69	82	74	69	80	73	68	63
1.00	90	82	77	89	82	77	87	82	76	71
1.25	96	89	84	95	88	84	93	87	83	78
1.50	100	93	89	98	92	88	96	91	87	82
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	98	90
4.00	111	108	105	109	106	103	105	103	100	93
5.00	113	110	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:2023-12-08

$\gamma$  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:220.29V I:0.2341A P:51.135W PF:0.9914 Freq:50.00Hz Lamp Flux:6602.26x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.125	Shielding Angle:



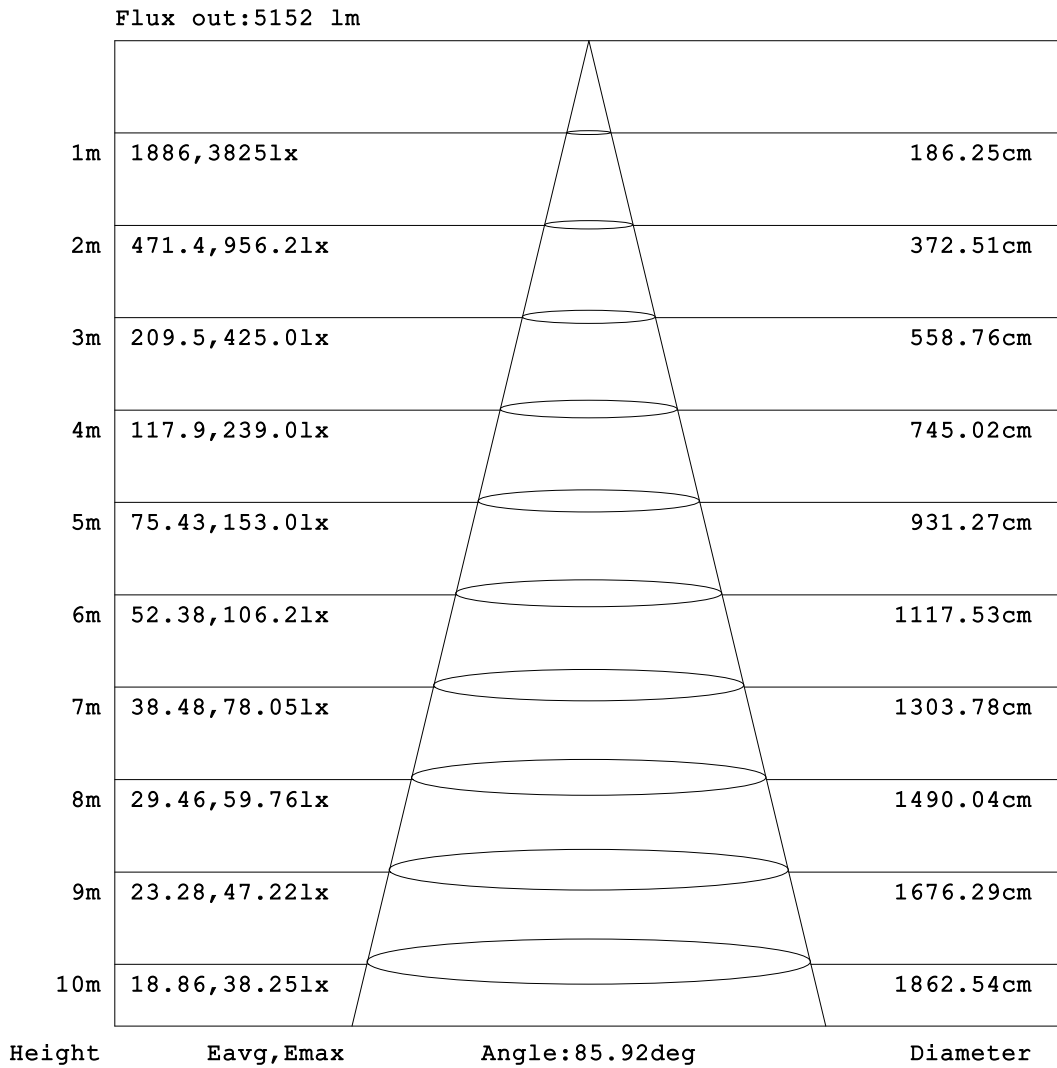
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-12-08

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:220.29V I:0.2341A P:51.135W PF:0.9914 Freq:50.00Hz Lamp Flux:6602.26x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.125	Shielding Angle:



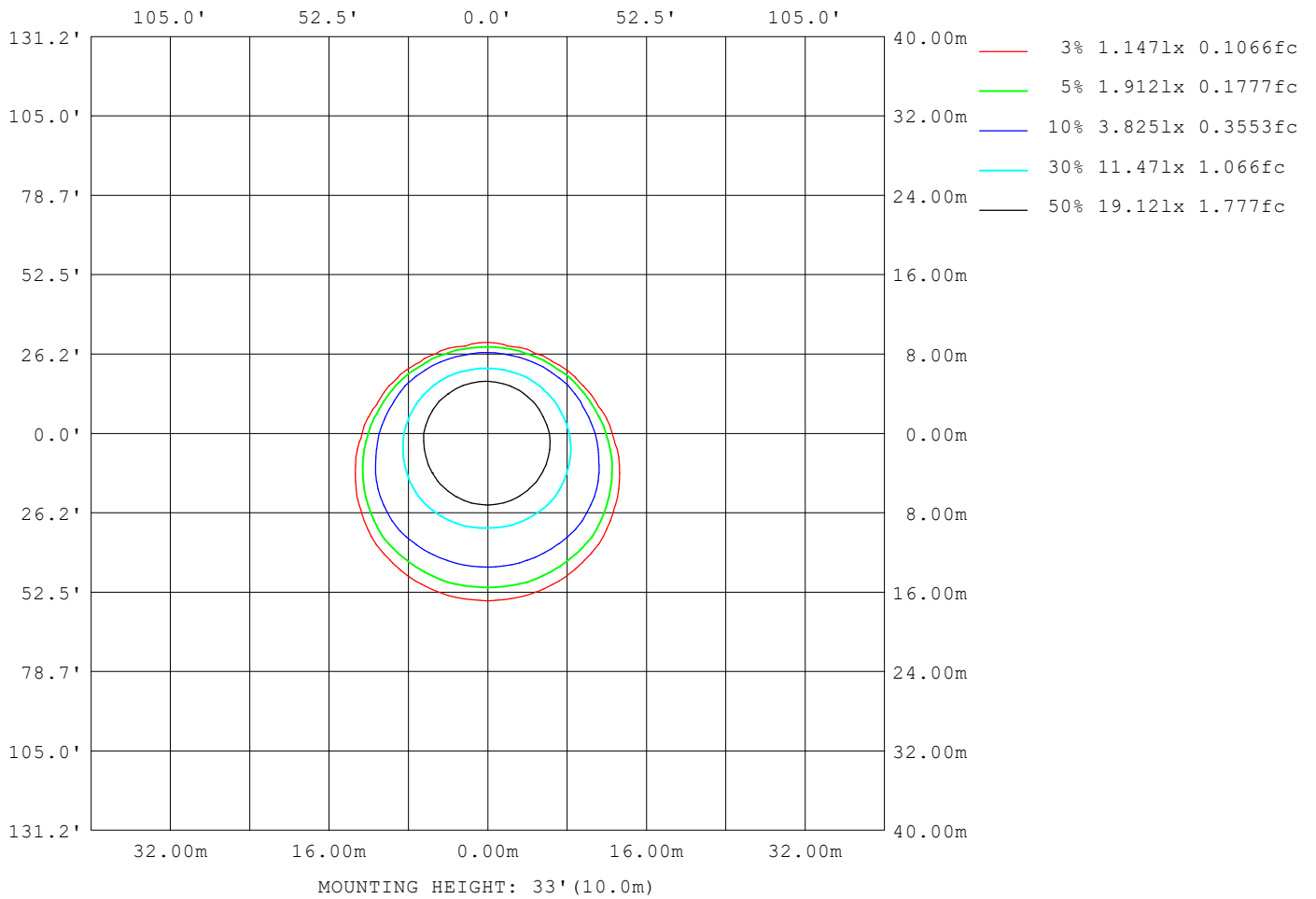
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: DAMIN  
Test Date: 2023-12-08

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:220.29V I:0.2341A P:51.135W PF:0.9914 Freq:50.00Hz Lamp Flux:6602.26x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.125	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-12-08

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:220.29V I:0.2341A P:51.135W PF:0.9914 Freq:50.00Hz Lamp Flux:6602.26x1 lm		
NAME:	TYPE: 投光灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.125	Shielding Angle:

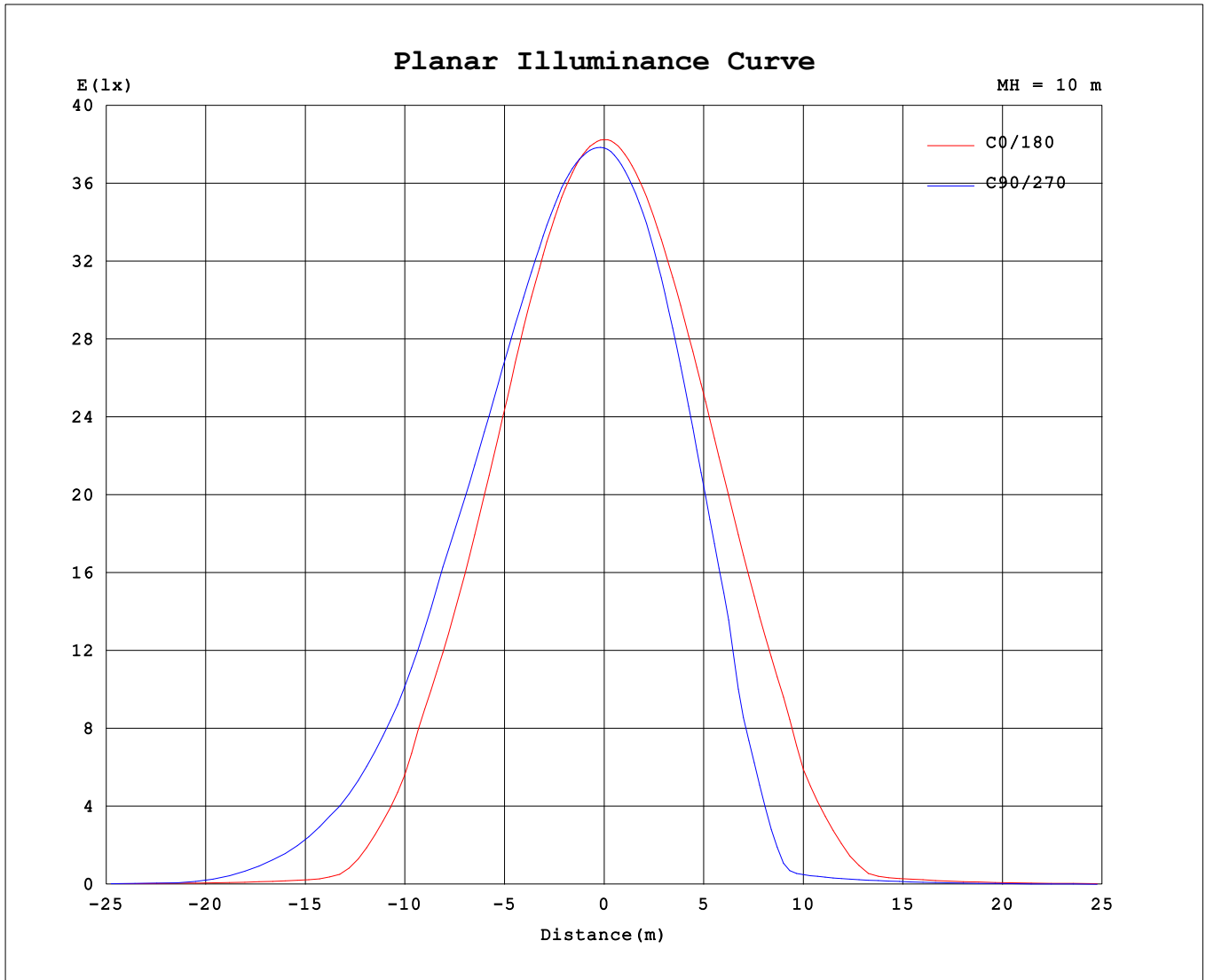
AvgL	cd/m2
L_0~180 (65) av	13577
L_0~180 (75) av	9177
L_0~180 (85) av	3095
L_90~270 (65) av	11803
L_90~270 (75) av	5588
L_90~270 (85) av	2474
L_45 (65) av	11716
L_45 (75) av	6424
L_45 (85) av	2509

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-12-08

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: 2023-12-08

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:



