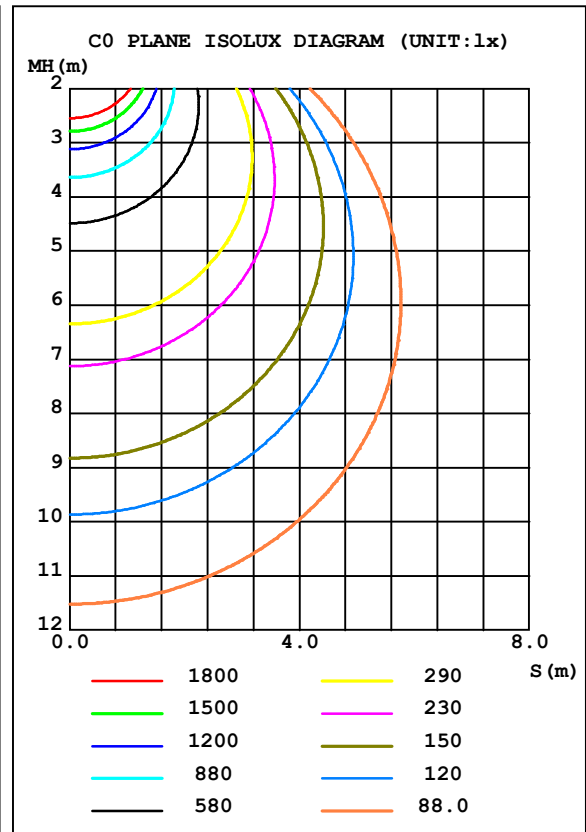
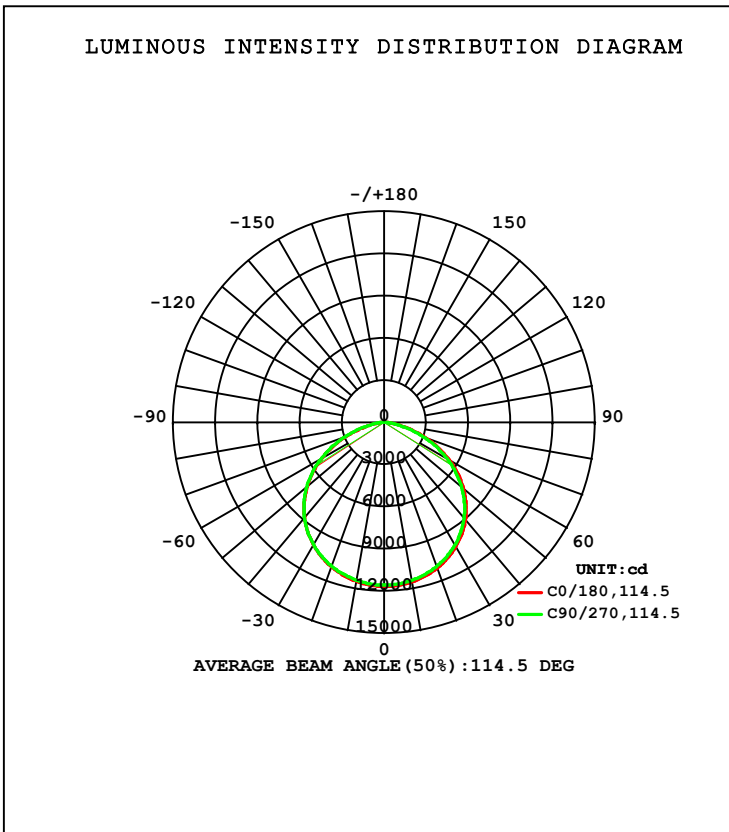


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.90V I:1.6580A P:198.50W PF:0.9980 Freq:50.00Hz Lamp Flux:33070.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 166.60 lm/W			
MODEL		I <sub>max</sub> (cd)	11676	S/MH (C0/180)	1.28
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	33071	η UP, DN (C0-180)	0.0, 50.5
NOMINAL FLUX (lm)	33070.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: Wangzhilie  
 Test Date: 2023-10-24

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity: 65.0%  
 Test Distance: 7.300m [K=1.0000]  
 Remarks:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1153	1141	1148	1141					0- 10	1102	1102	3.33,3.33
20	1105	1092	1095	1090					10- 20	3177	4279	12.9,12.9
30	1023	1009	1008	1006					20- 30	4878	9156	27.7,27.7
40	903.1	886.8	882.0	884.0					30- 40	5975	15131	45.8,45.8
50	740.3	722.0	715.7	721.5					40- 50	6257	21388	64.7,64.7
60	538.6	520.6	510.1	519.4					50- 60	5603	26991	81.6,81.6
70	306.6	287.8	275.6	288.2					60- 70	4030	31021	93.8,93.8
80	84.16	74.03	63.84	74.32					70- 80	1854	32874	99.4,99.4
90	0	0	0	0					80- 90	196.5	33071	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:×10cd									UNIT:lm		

Conical surface Flux(90deg): 18282 lm

%lum = 55.3%

%lamp = 55.3%

Conical surface Flux(120deg): 26991 lm

%lum = 81.6%

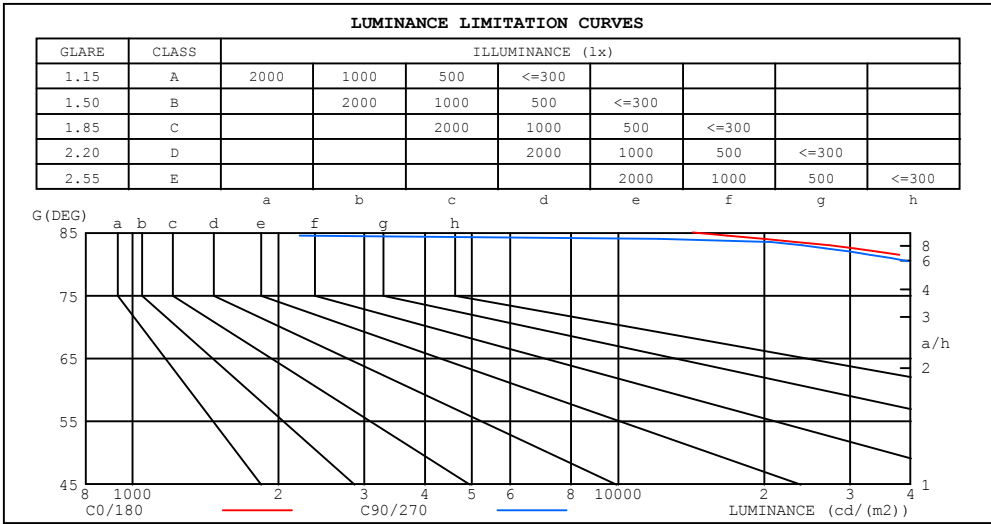
%lamp = 81.6%

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Wangzhilie  
 Test Date:2023-10-24

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.300m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:119.90V I:1.6580A P:198.50W PF:0.9980 Freq:50.00Hz Lamp Flux:33070.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	14228	0
80	48465	42632
75	72851	66086
70	89653	84138
65	100646	96226
60	107726	104121
55	112243	109150
50	115174	112327
45	116983	114485

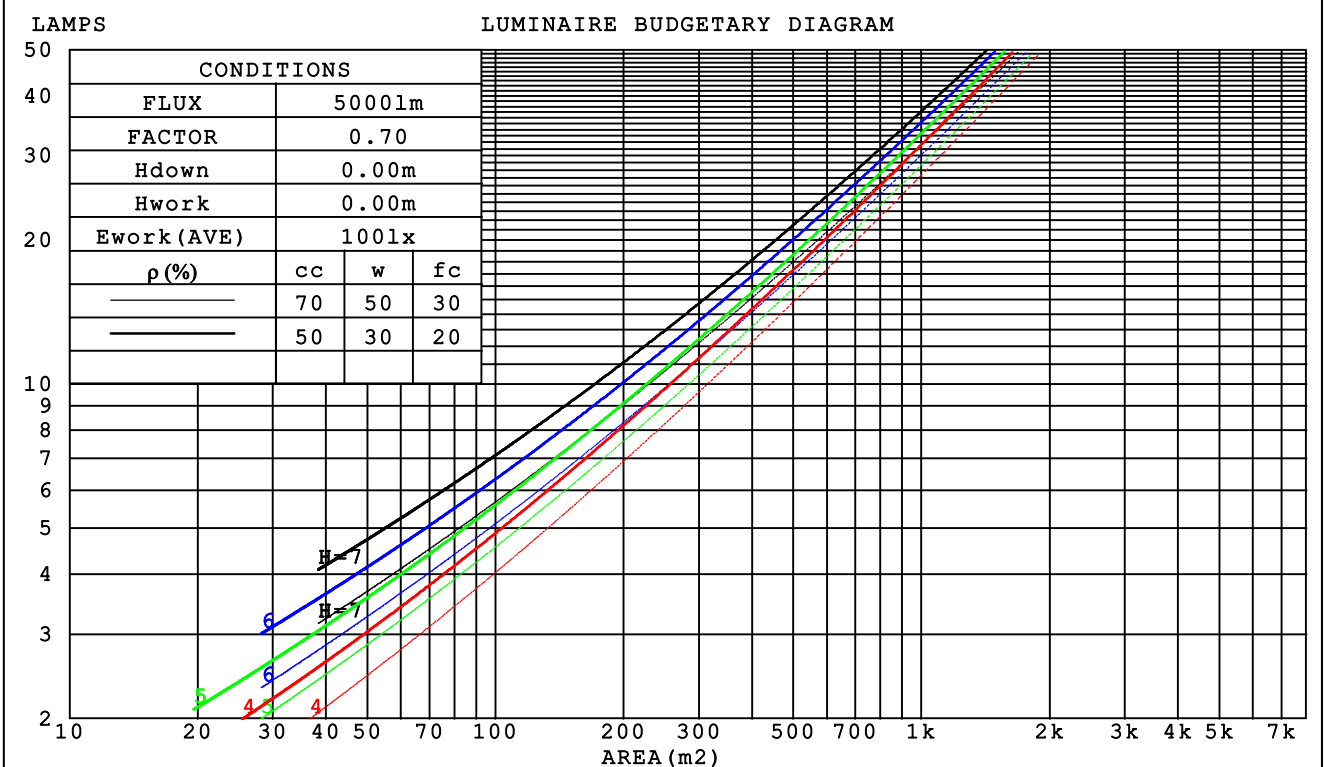
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: Wangzhilie  
 Test Date: 2023-10-24

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity: 65.0%  
 Test Distance: 7.300m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.90V I:1.6580A P:198.50W PF:0.9980 Freq:50.00Hz Lamp Flux:33070.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	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	.00
1.0	1.05	1.01	.97	1.03	.99	.96	.98	.95	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71
3.0	.81	.73	.66	.79	.72	.66	.76	.70	.64	.73	.68	.63	.71	.66	.62	.60
4.0	.71	.63	.56	.70	.62	.56	.68	.60	.55	.65	.59	.54	.63	.58	.53	.51
5.0	.64	.55	.48	.63	.54	.48	.60	.53	.47	.58	.52	.47	.57	.51	.46	.44
6.0	.57	.48	.42	.56	.48	.42	.55	.47	.41	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.42	.34	.29	.41	.34	.29	.40	.34	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.38	.31	.27	.37	.31	.26	.25



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: Wangzhilie  
 Test Date: 2023-10-24

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity: 65.0%  
 Test Distance: 7.300m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:119.90V I:1.6580A P:198.50W PF:0.9980 Freq:50.00Hz Lamp Flux:33070.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.290	.165	.052	.283	.161	.051	.270	.155	.049	.258	.149	.048	.247	.143	.046	
2.0	.280	.153	.047	.274	.151	.046	.262	.146	.045	.251	.141	.044	.241	.137	.043	
3.0	.262	.140	.042	.257	.138	.041	.247	.134	.041	.237	.130	.040	.228	.126	.039	
4.0	.244	.127	.037	.239	.125	.037	.230	.122	.036	.222	.119	.036	.214	.116	.035	
5.0	.227	.115	.033	.222	.114	.033	.214	.112	.033	.207	.109	.032	.200	.107	.032	
6.0	.211	.106	.030	.207	.105	.030	.200	.102	.030	.193	.100	.030	.187	.098	.029	
7.0	.197	.097	.028	.193	.096	.027	.187	.095	.027	.181	.093	.027	.175	.091	.027	
8.0	.184	.090	.025	.181	.089	.025	.175	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.173	.084	.023	.170	.083	.023	.165	.082	.023	.160	.080	.023	.155	.079	.023	
10.0	.163	.078	.022	.160	.077	.022	.156	.076	.021	.151	.075	.021	.147	.074	.021	

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	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	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.075	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.156	.101	.059	.133	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Wangzhilie  
 Test Date:2023-10-24

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.300m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.90V I:1.6580A P:198.50W PF:0.9980 Freq:50.00Hz Lamp Flux:33070.6x1 lm										
NAME:				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	29.4	30.9	29.7	31.1	31.3	29.3	30.8	29.6	31.0	31.2
3H	30.8	32.1	31.1	32.4	32.6	30.6	32.0	30.9	32.2	32.4
4H	31.2	32.5	31.5	32.7	33.0	31.0	32.3	31.3	32.5	32.8
6H	31.4	32.6	31.7	32.9	33.1	31.1	32.3	31.4	32.6	32.9
8H	31.4	32.5	31.7	32.8	33.1	31.1	32.3	31.4	32.6	32.9
12H	31.3	32.5	31.7	32.8	33.1	31.0	32.2	31.4	32.5	32.8
4H 2H	30.0	31.3	30.3	31.5	31.8	29.9	31.2	30.2	31.4	31.7
3H	31.5	32.6	31.8	32.9	33.2	31.3	32.5	31.7	32.8	33.1
4H	32.0	33.0	32.3	33.3	33.7	31.8	32.8	32.2	33.1	33.5
6H	32.2	33.1	32.6	33.5	33.9	32.0	32.9	32.4	33.3	33.6
8H	32.2	33.1	32.7	33.5	33.8	32.0	32.9	32.4	33.2	33.6
12H	32.2	33.0	32.6	33.4	33.8	32.0	32.8	32.4	33.1	33.5
8H 4H	32.1	33.0	32.5	33.3	33.7	31.9	32.8	32.3	33.2	33.5
6H	32.4	33.1	32.9	33.5	34.0	32.2	32.9	32.7	33.3	33.8
8H	32.5	33.1	32.9	33.5	34.0	32.3	32.9	32.7	33.3	33.7
12H	32.5	33.0	32.9	33.4	33.9	32.2	32.8	32.7	33.2	33.7
12H 4H	32.1	32.9	32.5	33.3	33.7	31.9	32.7	32.3	33.1	33.5
6H	32.4	33.0	32.9	33.5	33.9	32.2	32.8	32.7	33.3	33.7
8H	32.5	33.0	33.0	33.5	33.9	32.3	32.8	32.7	33.2	33.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 33071 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 12.2)  
 Area: 0.1 m2

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Wangzhilie  
 Test Date:2023-10-24

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.300m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:119.90V I:1.6580A P:198.50W PF:0.9980 Freq:50.00Hz Lamp Flux:33070.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

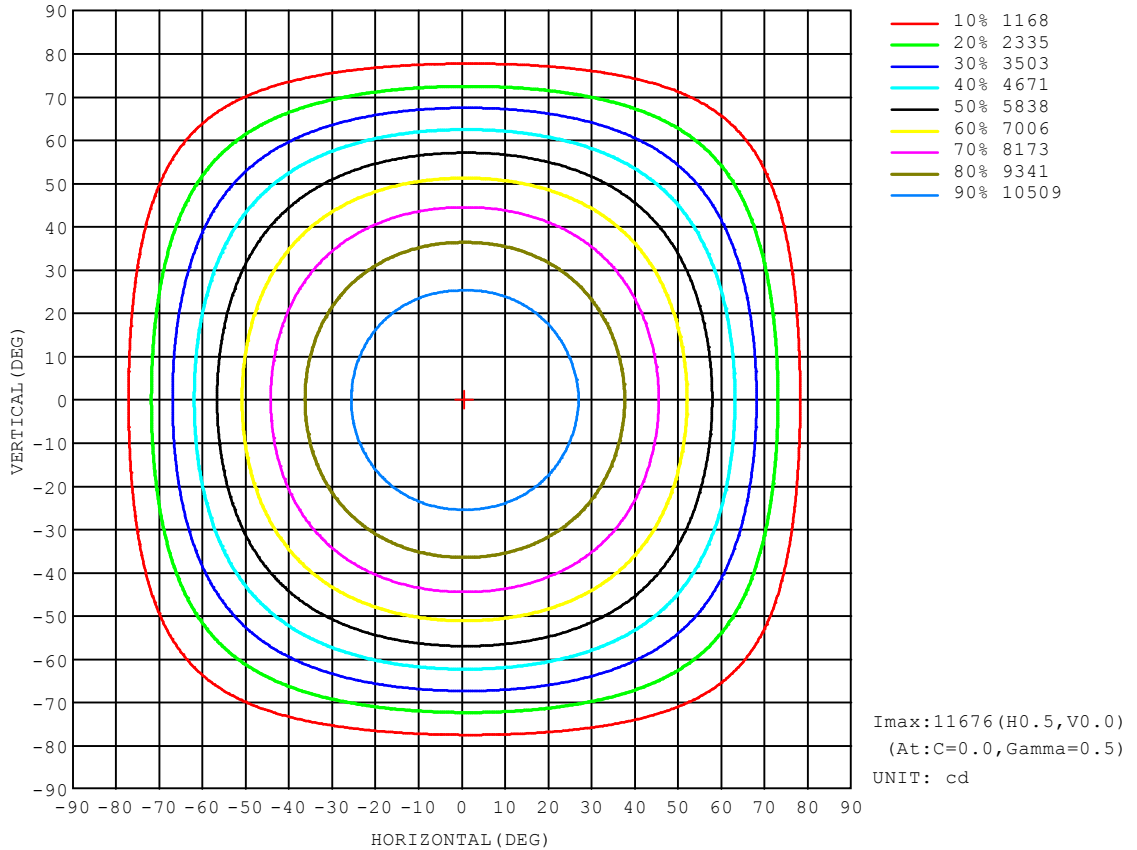
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	46	39	33
0.80	68	57	49	67	56	49	65	56	49	42
1.00	77	66	59	76	65	59	73	67	58	51
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	88	79	72	85	77	71	64
2.00	96	88	82	94	87	81	91	84	79	72
2.50	100	92	87	98	91	86	94	88	84	76
3.00	103	97	91	101	95	90	97	92	88	80
4.00	107	102	97	105	100	96	101	97	93	85
5.00	109	105	101	107	103	99	103	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Wangzhilie  
 Test Date:2023-10-24

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.300m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:119.90V I:1.6580A P:198.50W PF:0.9980 Freq:50.00Hz Lamp Flux:33070.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



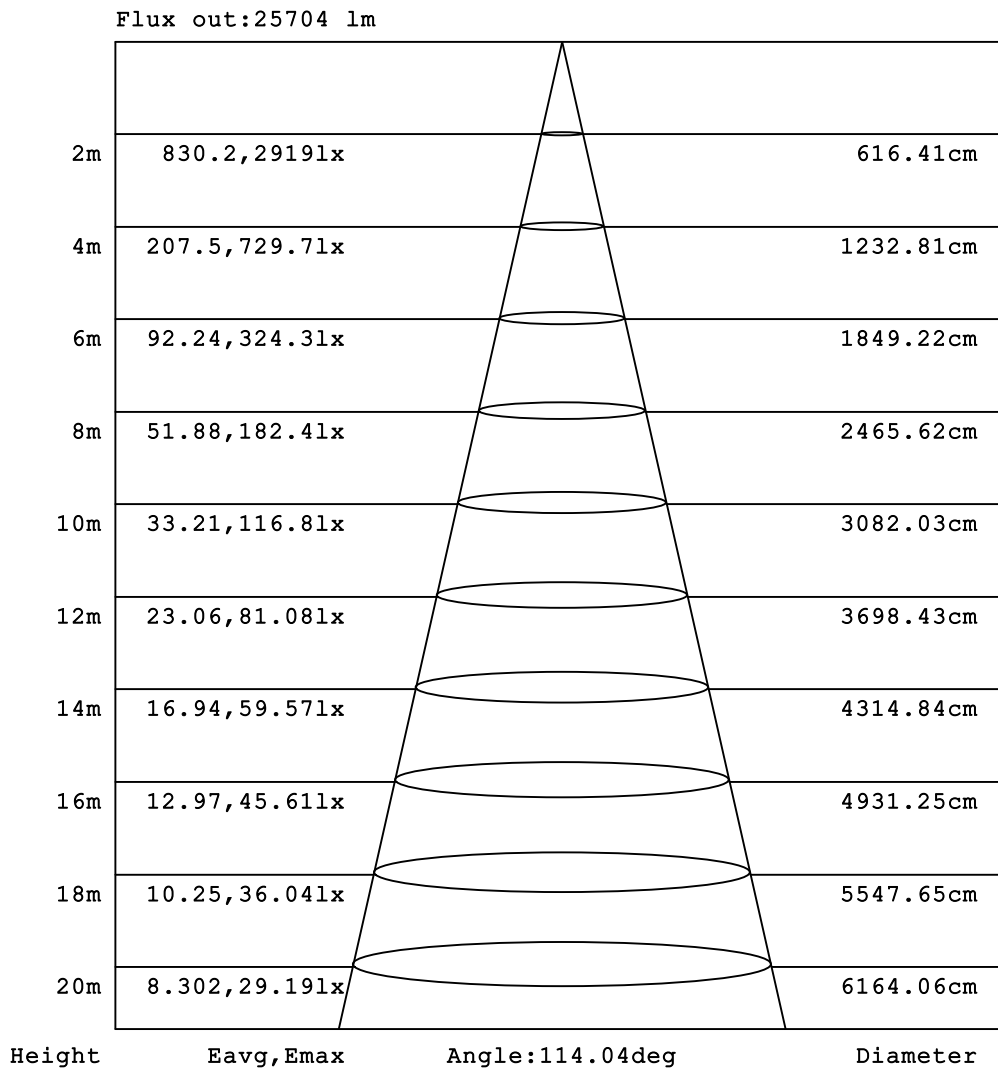
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Wangzhilie  
 Test Date:2023-10-24

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.300m [K=1.0000]  
 Remarks:



AAI Figure

Test:U:119.90V I:1.6580A P:198.50W PF:0.9980 Freq:50.00Hz Lamp Flux:33070.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



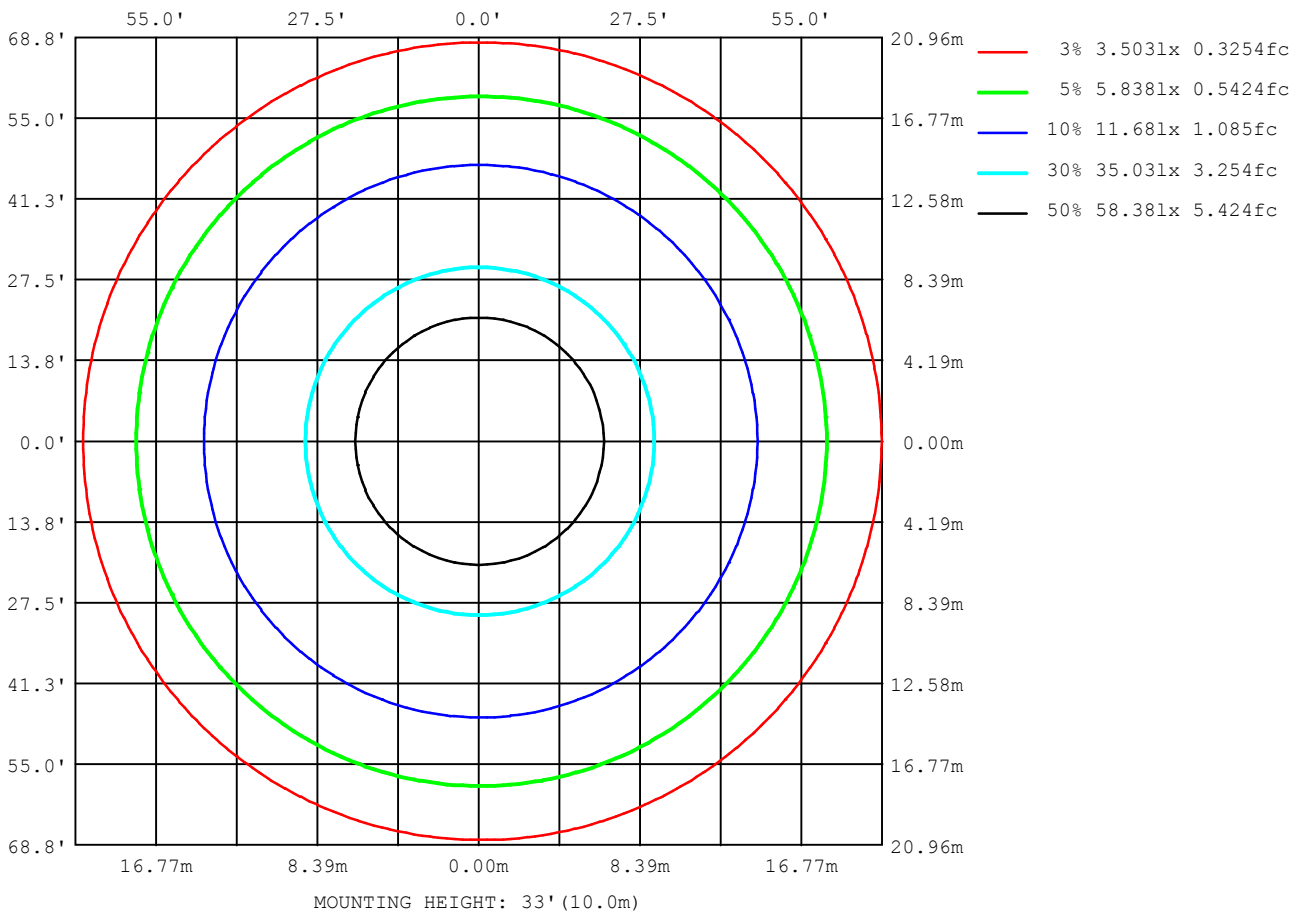
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Wangzhilie  
 Test Date:2023-10-24

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.300m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:119.90V I:1.6580A P:198.50W PF:0.9980 Freq:50.00Hz Lamp Flux:33070.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Wangzhilie  
 Test Date:2023-10-24

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.300m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:119.90V I:1.6580A P:198.50W PF:0.9980 Freq:50.00Hz Lamp Flux:33070.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

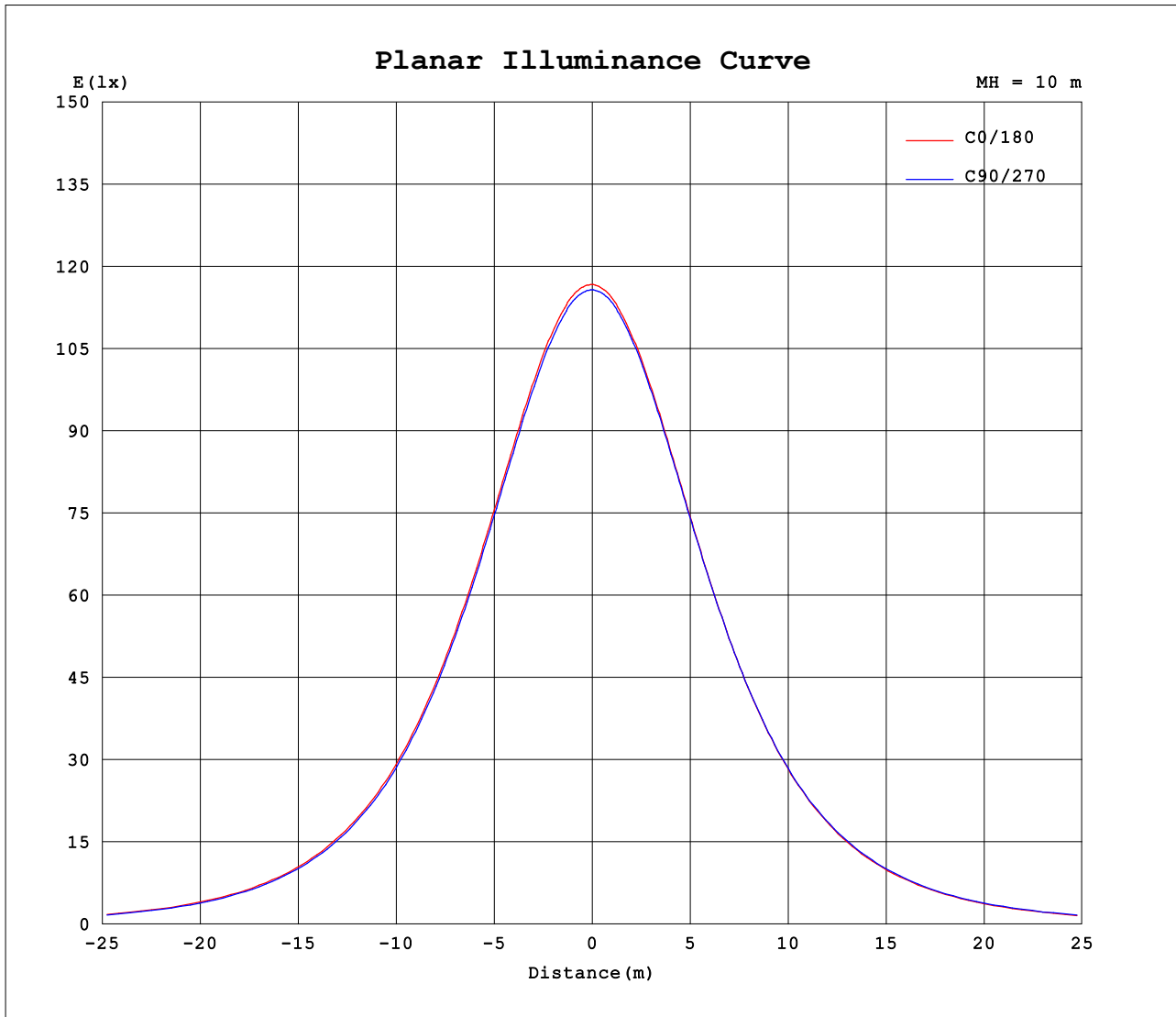
AvgL	cd/m2
L_0~180 (65) av	97071
L_0~180 (75) av	67047
L_0~180 (85) av	7114
L_90~270 (65) av	96196
L_90~270 (75) av	66169
L_90~270 (85) av	5314
L_45 (65) av	96301
L_45 (75) av	66135
L_45 (85) av	5933

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Wangzhilie  
 Test Date:2023-10-24

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.300m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: Wangzhilie  
 Test Date: 2023-10-24

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity: 65.0%  
 Test Distance: 7.300m [K=1.0000]  
 Remarks:

