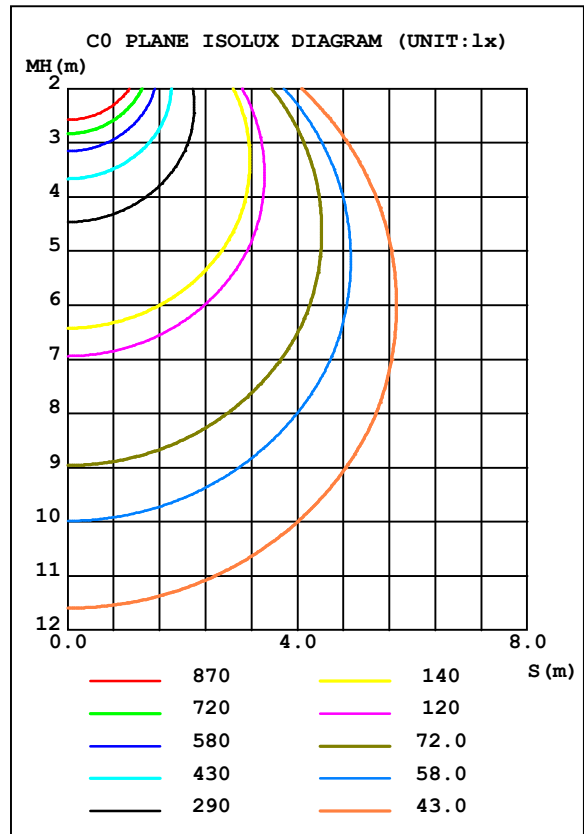
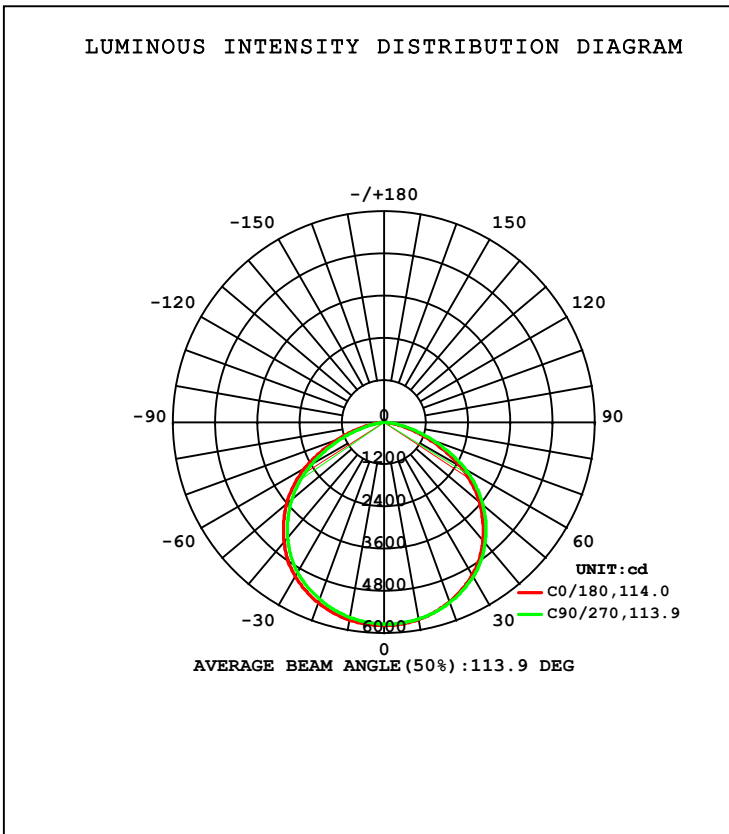


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.90V I:0.8320A P:99.500W PF:0.9970 Freq:50.00Hz Lamp Flux:16125.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 162.07 lm/W			
MODEL		I <sub>max</sub> (cd)	5781	S/MH (C0/180)	1.30
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	16126	η UP, DN (C0-180)	0.0, 50.7
NOMINAL FLUX (lm)	16125.5	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.3
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: 2023-10-21

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	5695	5682	5711	5633					0- 10	545.9	545.9	3.39,3.39
20	5437	5460	5470	5361					10- 20	1575	2121	13.2,13.2
30	5017	5077	5062	4932					20- 30	2419	4540	28.2,28.2
40	4376	4476	4434	4273					30- 40	2962	7502	46.5,46.5
50	3542	3680	3626	3433					40- 50	3084	10586	65.6,65.6
60	2499	2684	2616	2368					50- 60	2750	13336	82.7,82.7
70	1267	1457	1373	1165					60- 70	1901	15237	94.5,94.5
80	290.4	416.5	343.3	213.3					70- 80	826.5	16063	99.6,99.6
90	0	0	0	0					80- 90	62.21	16126	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): 9056 lm

%lum = 56.2%

%lamp = 56.2%

Conical surface Flux(120deg): 13336 lm

%lum = 82.7%

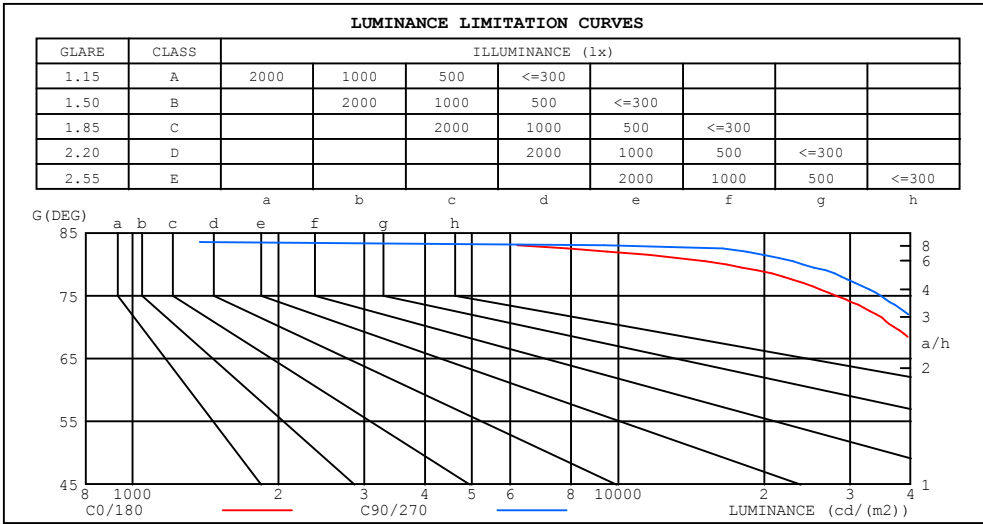
%lamp = 82.7%

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Wangzhilie  
 Test Date:2023-10-21

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:0.8320A P:99.500W PF:0.9970 Freq:50.00Hz Lamp Flux:16125.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	16725	23983
75	28126	34726
70	37044	42586
65	44322	48952
60	49984	53671
55	53237	55940
50	55109	57257
45	56221	58018

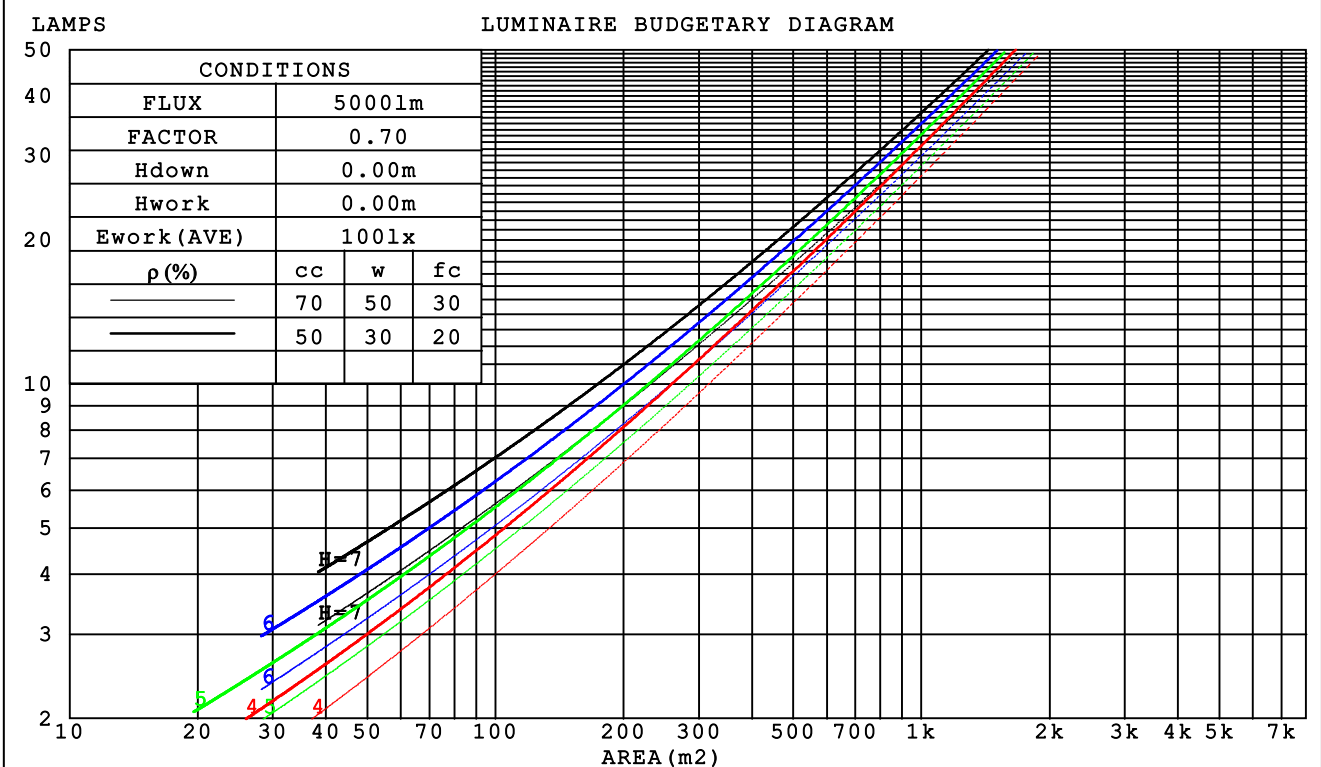
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: Wangzhilie  
 Test Date: 2023-10-21

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:0.8320A P:99.500W PF:0.9970 Freq:50.00Hz Lamp Flux:16125.5x1 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	.98	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.88	.86
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.77	.83	.79	.76	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.77	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.49	.61	.54	.48	.59	.53	.47	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.48	.42	.55	.48	.42	.53	.47	.42	.52	.46	.41	.39
7.0	.52	.44	.38	.52	.43	.37	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35
8.0	.48	.39	.33	.47	.39	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.28
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: Wangzhilie  
 Test Date: 2023-10-21

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:0.8320A P:99.500W PF:0.9970 Freq:50.00Hz Lamp Flux:16125.5x1 lm		
NAME:	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	.284	.162	.051	.277	.158	.050	.264	.152	.048	.252	.145	.047	.241	.140	.045	
2.0	.276	.151	.046	.270	.148	.046	.258	.143	.045	.247	.139	.043	.238	.134	.042	
3.0	.259	.138	.041	.254	.136	.041	.244	.132	.040	.234	.128	.039	.225	.125	.039	
4.0	.242	.126	.037	.237	.124	.037	.228	.121	.036	.219	.118	.036	.211	.115	.035	
5.0	.225	.115	.033	.221	.113	.033	.213	.111	.033	.205	.108	.032	.198	.106	.032	
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029	
7.0	.196	.097	.027	.192	.096	.027	.186	.094	.027	.180	.092	.027	.174	.091	.027	
8.0	.183	.090	.025	.180	.089	.025	.174	.087	.025	.169	.086	.025	.164	.084	.025	
9.0	.172	.083	.023	.169	.083	.023	.164	.081	.023	.159	.080	.023	.155	.079	.023	
10.0	.162	.078	.022	.160	.077	.022	.155	.076	.021	.151	.075	.021	.146	.074	.021	

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	.179	.156	.136	.153	.134	.117	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.018	.015	.012	
3.0	.162	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.052	.091	.061	.036	.053	.036	.022	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.087	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.084	.050	.024	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.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	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.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:2023-10-21

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:0.8320A P:99.500W PF:0.9970 Freq:50.00Hz Lamp Flux:16125.5x1 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	26.8	28.3	27.1	28.5	28.7	27.0	28.5	27.3	28.7	28.9
3H	27.9	29.3	28.2	29.5	29.7	28.3	29.6	28.6	29.9	30.1
4H	28.2	29.5	28.5	29.8	30.0	28.7	30.0	29.0	30.2	30.5
6H	28.3	29.5	28.6	29.8	30.1	28.8	30.1	29.2	30.3	30.6
8H	28.3	29.4	28.6	29.7	30.0	28.8	30.0	29.2	30.3	30.6
12H	28.2	29.3	28.6	29.6	29.9	28.8	29.9	29.1	30.2	30.5
4H 2H	27.3	28.7	27.7	28.9	29.2	27.5	28.8	27.8	29.1	29.3
3H	28.6	29.7	29.0	30.0	30.3	28.9	30.1	29.3	30.3	30.6
4H	29.0	30.0	29.4	30.3	30.7	29.4	30.4	29.8	30.7	31.1
6H	29.1	30.1	29.5	30.4	30.8	29.6	30.6	30.0	30.9	31.3
8H	29.1	30.0	29.5	30.3	30.7	29.7	30.5	30.1	30.9	31.3
12H	29.1	29.9	29.5	30.2	30.7	29.6	30.4	30.1	30.8	31.2
8H 4H	29.1	30.0	29.5	30.3	30.7	29.5	30.3	29.9	30.7	31.1
6H	29.4	30.0	29.8	30.5	30.9	29.8	30.5	30.3	30.9	31.3
8H	29.4	30.0	29.8	30.4	30.8	29.9	30.5	30.3	30.9	31.4
12H	29.3	29.8	29.8	30.3	30.8	29.8	30.4	30.3	30.8	31.3
12H 4H	29.1	29.9	29.5	30.3	30.7	29.5	30.2	29.9	30.6	31.0
6H	29.3	30.0	29.8	30.4	30.8	29.8	30.4	30.3	30.8	31.3
8H	29.4	29.9	29.8	30.3	30.8	29.9	30.4	30.3	30.8	31.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 16126 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.7)  
 Area: 0.1 m2

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Wangzhilie  
 Test Date:2023-10-21

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:0.8320A P:99.500W PF:0.9970 Freq:50.00Hz Lamp Flux:16125.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

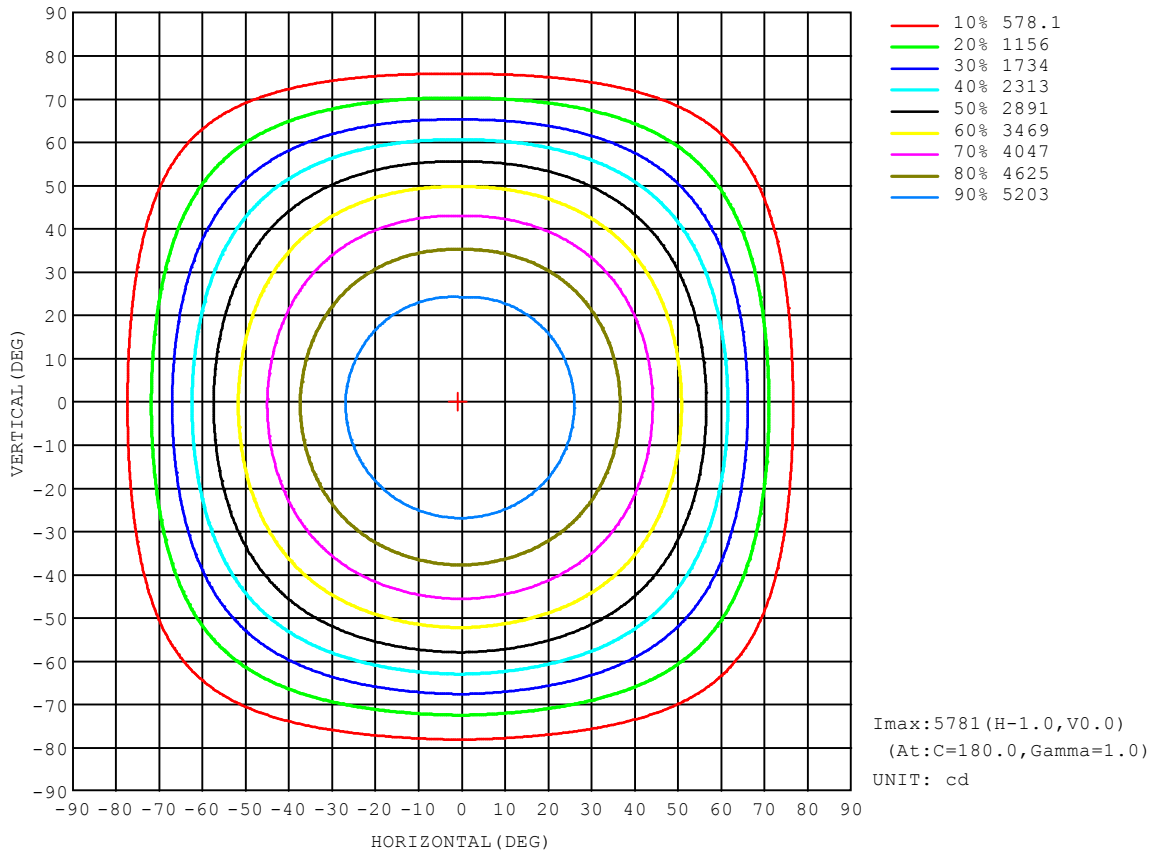
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	58	47	40	56	46	40	33
0.80	69	57	50	68	57	50	66	56	49	43
1.00	77	67	60	76	66	59	74	67	59	52
1.25	85	75	68	83	74	67	81	72	66	59
1.50	90	80	73	88	79	73	85	78	72	65
2.00	96	88	82	95	87	82	91	85	80	72
2.50	100	93	87	98	92	86	94	89	84	76
3.00	103	97	92	101	96	91	97	93	89	80
4.00	107	102	98	105	100	96	101	97	94	85
5.00	110	105	101	107	103	100	103	100	97	88
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:2023-10-21

$\gamma$  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:0.8320A P:99.500W PF:0.9970 Freq:50.00Hz Lamp Flux:16125.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



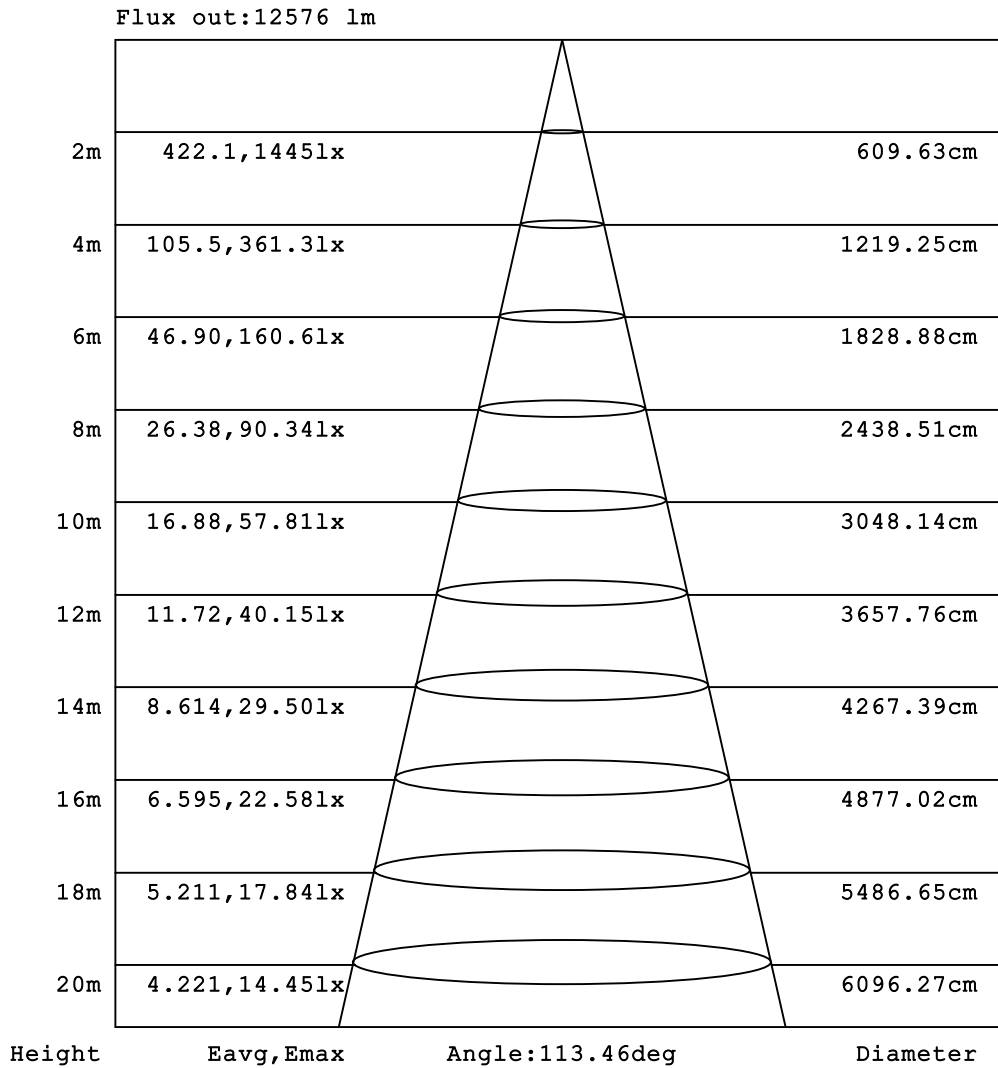
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Wangzhilie  
 Test Date:2023-10-21

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:0.8320A P:99.500W PF:0.9970 Freq:50.00Hz Lamp Flux:16125.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



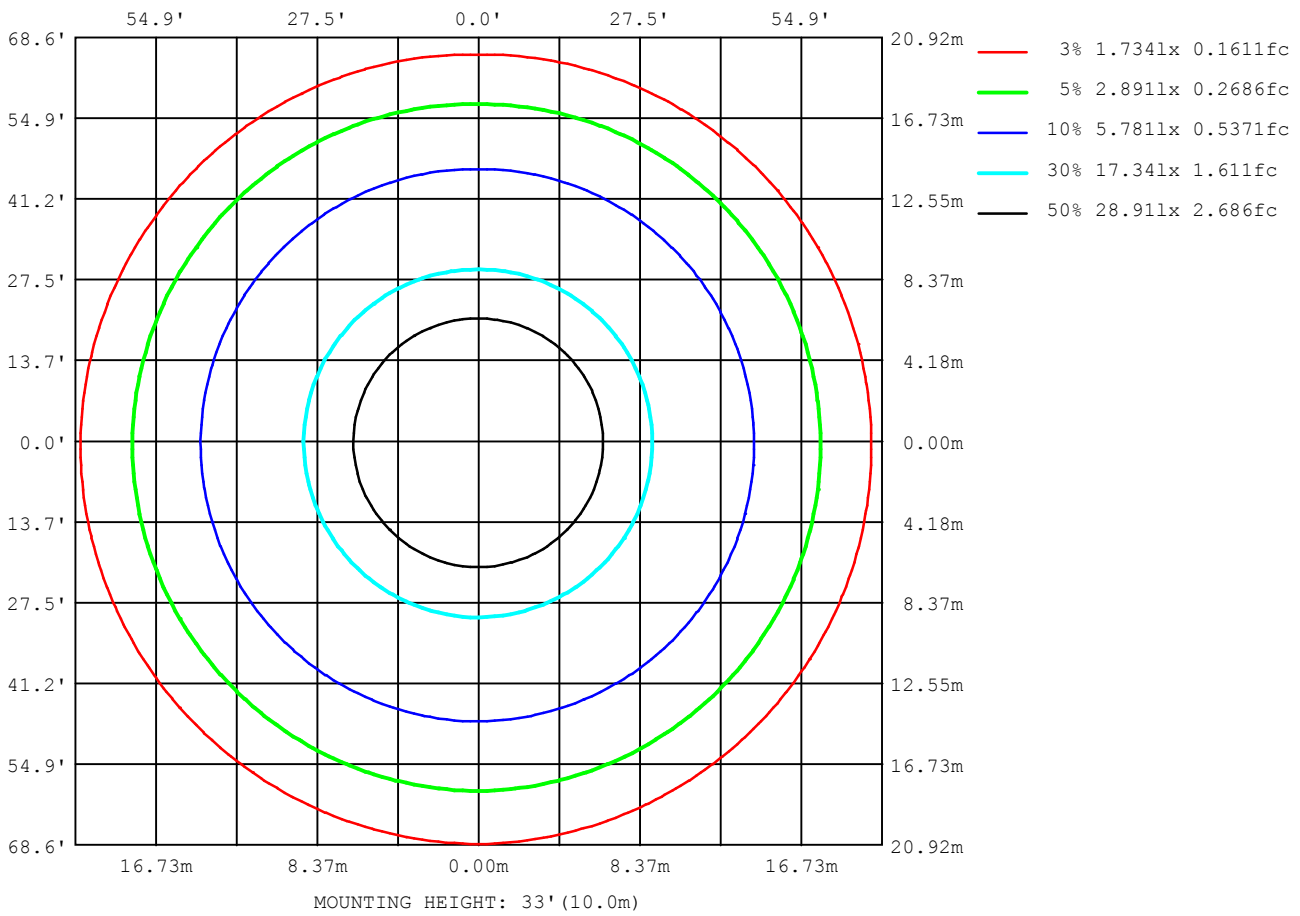
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: Wangzhilie  
 Test Date: 2023-10-21

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:0.8320A P:99.500W PF:0.9970 Freq:50.00Hz Lamp Flux:16125.5x1 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:2023-10-21

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:0.8320A P:99.500W PF:0.9970 Freq:50.00Hz Lamp Flux:16125.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

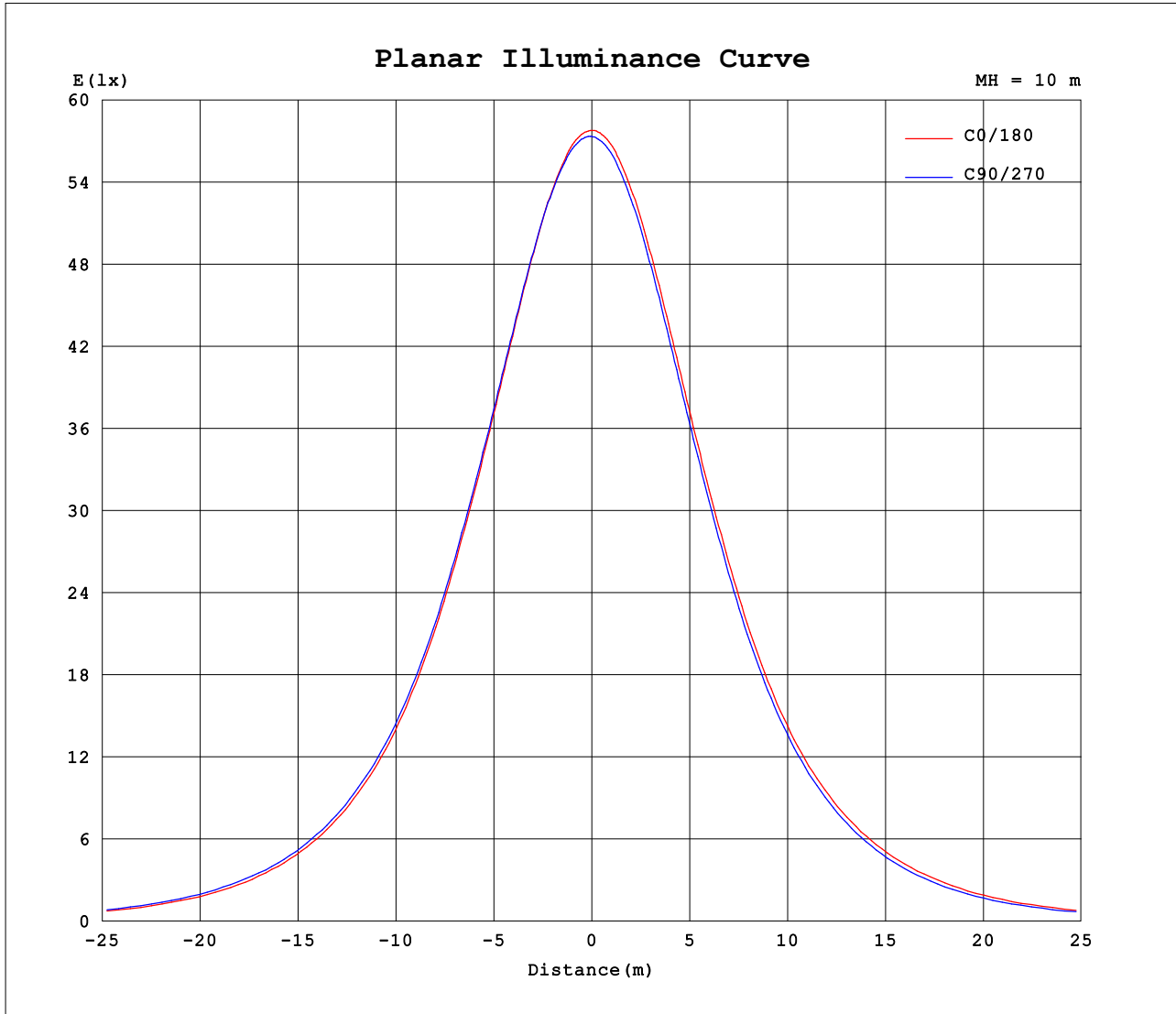
AvgL	cd/m2
L_0~180 (65) av	45642
L_0~180 (75) av	29685
L_0~180 (85) av	0
L_90~270 (65) av	45207
L_90~270 (75) av	29728
L_90~270 (85) av	0
L_45 (65) av	45452
L_45 (75) av	29809
L_45 (85) av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Wangzhilie  
 Test Date:2023-10-21

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: 2023-10-21

$\gamma$  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:

