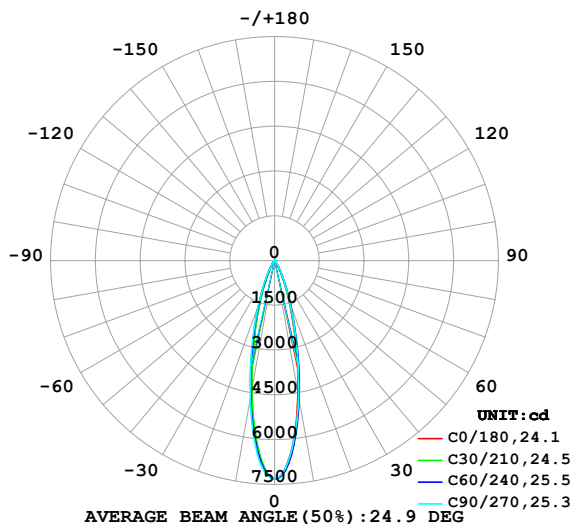


## LUMINAIRE PHOTOMETRIC TEST REPORT

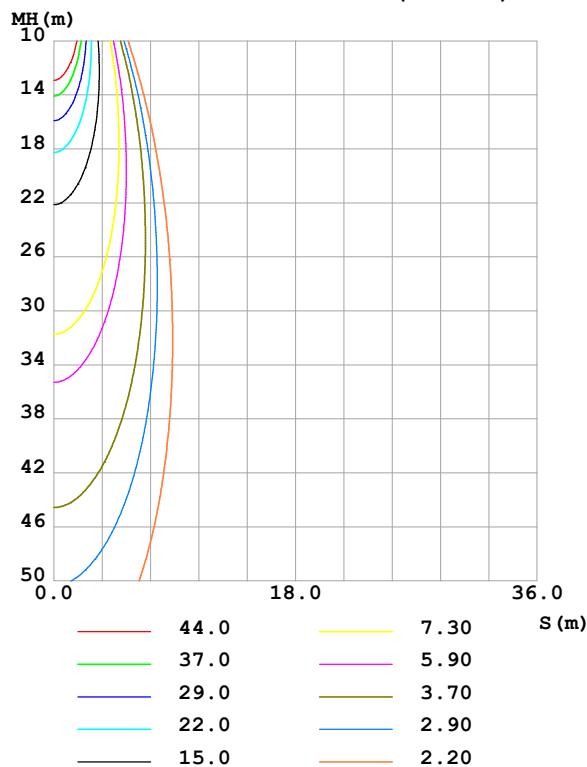
Test:U:24.000V I:1.4597A P:35.033W PF:1.0000 Freq:0Hz Lamp Flux:1813.19x1 lm		
NAME: AW01-24V-3535-18-3000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 51.76 lm/W
MODEL		I <sub>max</sub> (cd)	7319	S/MH (C0/180)		0.41
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.43
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1813.2	η UP, DN (C0-180)		0.0,49.2
NOMINAL FLUX (lm)	1813.19	CIE CLASS	DIRECT	η UP, DN (C180-360)		0.0,50.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.00
TEST VOLTAGE (V)		η down (%)	100.0	CIBSE SHR MAX		1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: Cloud  
Test Date: 2024-09-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity: 65.0%  
Test Distance: 6.350m [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	4507	4713	4628	4408	4436	4513	4713	4794	0- 10	554.5	554.5	30.6,30.6
20	1385	1518	1515	1386	1398	1481	1601	1607	10- 20	767.1	1322	72.9,72.9
30	271.5	330.9	339.2	302.6	281.9	334.3	387.9	359.8	20- 30	347.1	1669	92,92
40	47.26	60.10	67.45	54.70	48.88	62.12	80.57	68.11	30- 40	97.48	1766	97.4,97.4
50	10.24	12.52	14.34	11.08	9.758	10.94	14.42	12.56	40- 50	22.13	1788	98.6,98.6
60	6.482	7.067	6.976	6.922	5.958	6.421	6.540	6.666	50- 60	7.430	1796	99,99
70	6.177	6.163	6.034	6.243	5.299	5.479	5.623	5.552	60- 70	6.125	1802	99.4,99.4
80	5.714	5.487	5.389	5.661	4.892	5.013	5.182	5.042	70- 80	5.892	1808	99.7,99.7
90	4.867	4.793	4.807	4.921	4.641	4.756	4.896	4.765	80- 90	5.489	1813	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): 1781.2 lm

%lum = 98.2%

%lamp = 98.2%

Conical surface Flux(130deg): 1798.8 lm

%lum = 99.2%

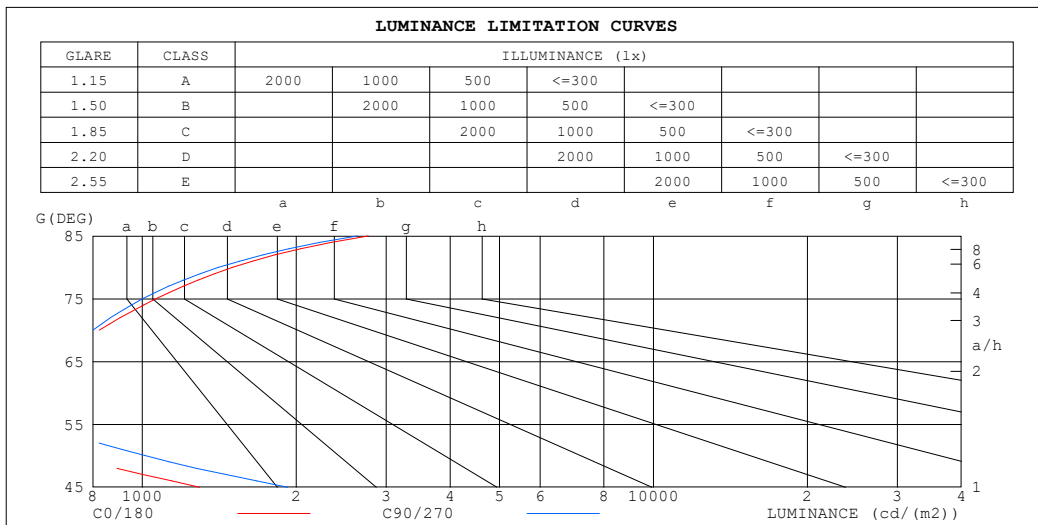
%lamp = 99.2%

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:Cloud  
 Test Date:2024-09-23

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity:65.0%  
 Test Distance:6.350m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:24.000V I:1.4597A P:35.033W PF:1.0000 Freq:0Hz Lamp Flux:1813.19x1 lm		
NAME: AW01-24V-3535-18-3000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/ (m2)		
G (DEG)	C0/180	C90/270
85	2767	2633
80	1501	1408
75	1064	1001
70	824	801
65	674	688
60	591	633
55	583	653
50	727	1012
45	1295	1924

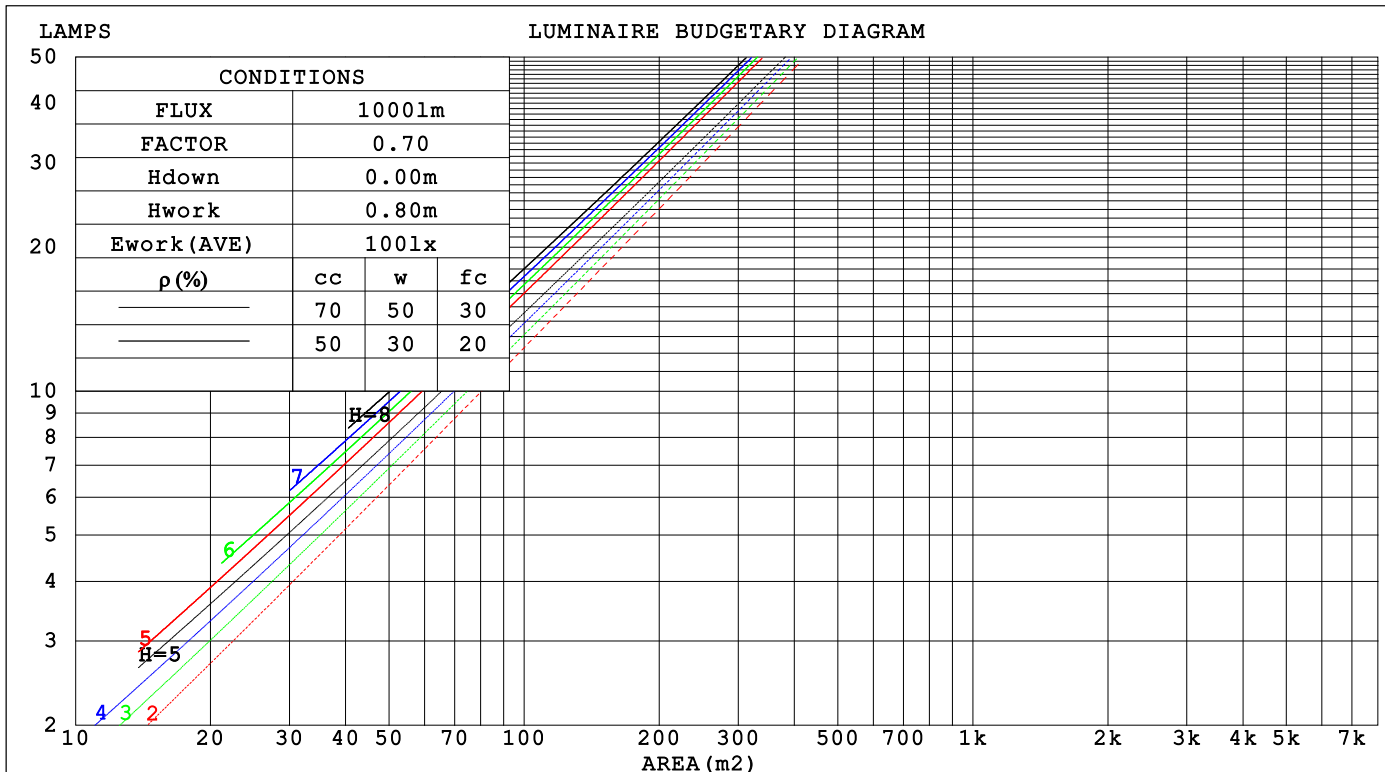
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Cloud  
Test Date:2024-09-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
Test Distance:6.350m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.000V I:1.4597A P:35.033W PF:1.0000 Freq:0Hz Lamp Flux:1813.19x1 lm		
NAME: AW01-24V-3535-18-3000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	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	1.00														
1.0	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.03	1.01	1.00	.99	.98	.97	.96														
2.0	1.07	1.03	1.01	1.05	1.02	.00	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92														
3.0	1.02	.98	.95	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.90	.88														
4.0	.97	.93	.90	.96	.92	.89	.94	.91	.88	.92	.89	.87	.91	.88	.86	.85														
5.0	.93	.89	.86	.92	.88	.85	.91	.87	.85	.89	.86	.84	.88	.85	.83	.82														
6.0	.90	.85	.82	.89	.85	.82	.88	.84	.81	.86	.83	.81	.85	.82	.80	.79														
7.0	.86	.82	.79	.86	.82	.79	.85	.81	.78	.84	.80	.78	.83	.80	.78	.76														
8.0	.84	.79	.76	.83	.79	.76	.82	.78	.76	.81	.78	.75	.80	.77	.75	.74														
9.0	.81	.76	.73	.80	.76	.73	.80	.76	.73	.79	.75	.73	.78	.75	.73	.72														
10.0	.78	.74	.71	.78	.74	.71	.77	.73	.71	.77	.73	.71	.76	.73	.70	.70														



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Cloud  
Test Date:2024-09-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
Test Distance:6.350m [K=1.0000]  
Remarks:

### WEC AND CCEC

Test:U:24.000V I:1.4597A P:35.033W PF:1.0000 Freq:0Hz Lamp Flux:1813.19x1 lm					
NAME: AW01-24V-3535-18-3000-80-30-B-1000			TYPE:		WEIGHT:
SPEC.:			DIM.: Length=1m		SERIAL No.:
MFR.:			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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.148	.084	.027	.141	.081	.026	.129	.074	.024	.118	.068	.022	.107	.062	.020		
2.0	.137	.075	.023	.131	.072	.022	.121	.067	.021	.112	.063	.020	.103	.058	.018		
3.0	.127	.068	.020	.123	.066	.020	.114	.062	.019	.106	.058	.018	.099	.055	.017		
4.0	.119	.062	.018	.116	.060	.018	.108	.057	.017	.101	.054	.016	.095	.052	.016		
5.0	.113	.057	.017	.109	.056	.016	.103	.054	.016	.097	.051	.015	.092	.049	.015		
6.0	.107	.053	.015	.104	.052	.015	.098	.050	.015	.093	.048	.014	.089	.047	.014		
7.0	.101	.050	.014	.099	.049	.014	.094	.048	.014	.090	.046	.013	.085	.044	.013		
8.0	.097	.047	.013	.094	.046	.013	.090	.045	.013	.086	.044	.013	.083	.042	.012		
9.0	.092	.045	.012	.090	.044	.012	.087	.043	.012	.083	.042	.012	.080	.041	.012		
10.0	.088	.042	.012	.087	.042	.012	.083	.041	.012	.080	.040	.011	.077	.039	.011		

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						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.169	.158	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016		
2.0	.152	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013		
3.0	.137	.113	.094	.117	.098	.082	.081	.068	.057	.047	.040	.034	.015	.013	.011		
4.0	.125	.098	.078	.107	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009		
5.0	.115	.086	.065	.098	.074	.056	.068	.052	.040	.039	.030	.024	.013	.010	.008		
6.0	.106	.076	.055	.091	.066	.048	.063	.046	.034	.036	.027	.020	.012	.009	.007		
7.0	.099	.068	.047	.085	.059	.041	.059	.041	.029	.034	.024	.017	.011	.008	.006		
8.0	.092	.061	.040	.079	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005		
9.0	.087	.056	.035	.075	.048	.030	.052	.034	.022	.030	.020	.013	.010	.007	.004		
10.0	.082	.051	.031	.070	.044	.027	.049	.031	.019	.029	.018	.011	.009	.006	.004		

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Cloud  
Test Date:2024-09-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
Test Distance:6.350m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

Test:U:24.000V I:1.4597A P:35.033W PF:1.0000 Freq:0Hz Lamp Flux:1813.19x1 lm										
NAME: AW01-24V-3535-18-3000-80-30-B-1000					TYPE:			WEIGHT:		
SPEC.:					DIM.: Length=1m			SERIAL No.:		
MFR.:					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	3.7	4.4	3.9	4.5	4.7	4.6	5.3	4.8	5.4	5.6
3H	4.0	4.6	4.2	4.8	5.0	4.8	5.4	5.0	5.6	5.8
4H	4.4	5.0	4.7	5.2	5.4	5.1	5.7	5.3	5.9	6.1
6H	5.1	5.7	5.4	5.9	6.1	5.5	6.1	5.8	6.4	6.6
8H	5.5	6.1	5.8	6.4	6.6	5.9	6.5	6.2	6.7	7.0
12H	6.2	6.7	6.5	7.0	7.2	6.4	7.0	6.7	7.2	7.5
4H 2H	3.6	4.2	3.9	4.4	4.6	4.5	5.1	4.7	5.3	5.5
3H	4.2	4.7	4.5	5.0	5.2	4.8	5.4	5.2	5.7	5.9
4H	4.8	5.3	5.1	5.6	5.9	5.3	5.8	5.6	6.1	6.4
6H	5.8	6.2	6.1	6.5	6.9	6.1	6.5	6.4	6.8	7.2
8H	6.4	6.8	6.8	7.2	7.6	6.6	7.0	7.0	7.4	7.7
12H	7.3	7.7	7.7	8.0	8.4	7.4	7.7	7.8	8.1	8.5
8H 4H	5.0	5.5	5.4	5.8	6.2	5.5	5.9	5.9	6.3	6.6
6H	6.3	6.7	6.7	7.0	7.5	6.5	6.9	7.0	7.3	7.7
8H	7.2	7.5	7.6	7.9	8.3	7.3	7.6	7.7	8.0	8.5
12H	8.3	8.6	8.8	9.0	9.5	8.3	8.6	8.8	9.0	9.5
12H 4H	5.1	5.5	5.5	5.8	6.2	5.6	5.9	6.0	6.3	6.7
6H	6.5	6.8	6.9	7.2	7.6	6.7	7.0	7.1	7.4	7.9
8H	7.5	7.7	7.9	8.2	8.6	7.6	7.8	8.0	8.3	8.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.7 / - 0.7					+ 1.3 / - 1.0				
1.5H	+ 1.6 / - 0.6					+ 2.6 / - 0.9				
2.0H	+ 0.3 / - 0.2					+ 0.8 / - 0.3				

CIE Pub.117, 1813 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.1)  
Area: 0.022 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Cloud  
Test Date:2024-09-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
Test Distance:6.350m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:24.000V I:1.4597A P:35.033W PF:1.0000 Freq:0Hz Lamp Flux:1813.19x1 lm		
NAME: AW01-24V-3535-18-3000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

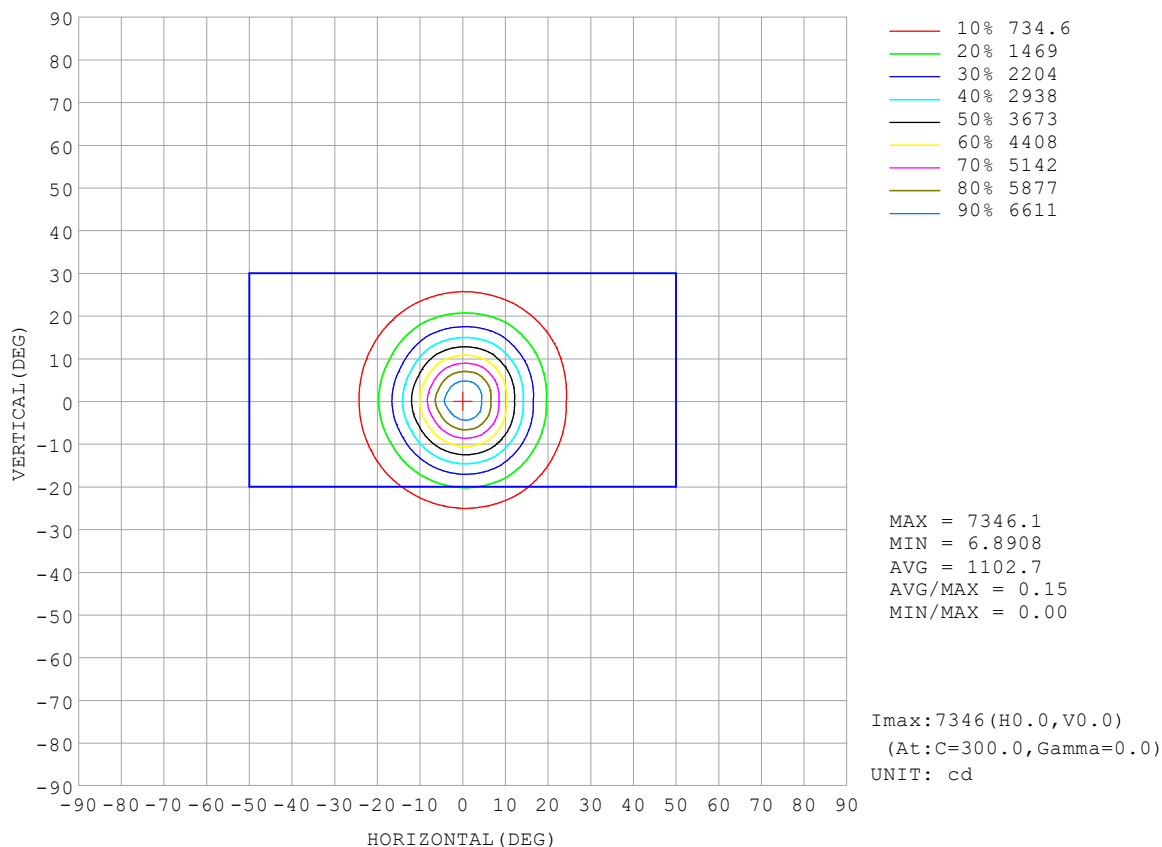
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	90	84	81	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	92	100	95	92	99	95	92	88
1.25	105	100	96	103	99	96	102	98	95	91
1.50	107	103	99	106	102	99	104	100	98	94
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	104	109	106	104	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	109	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: Cloud  
Test Date: 2024-09-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity: 65.0%  
Test Distance: 6.350m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:24.000V I:1.4597A P:35.033W PF:1.0000 Freq:0Hz Lamp Flux:1813.19x1 lm		
NAME: AW01-24V-3535-18-3000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



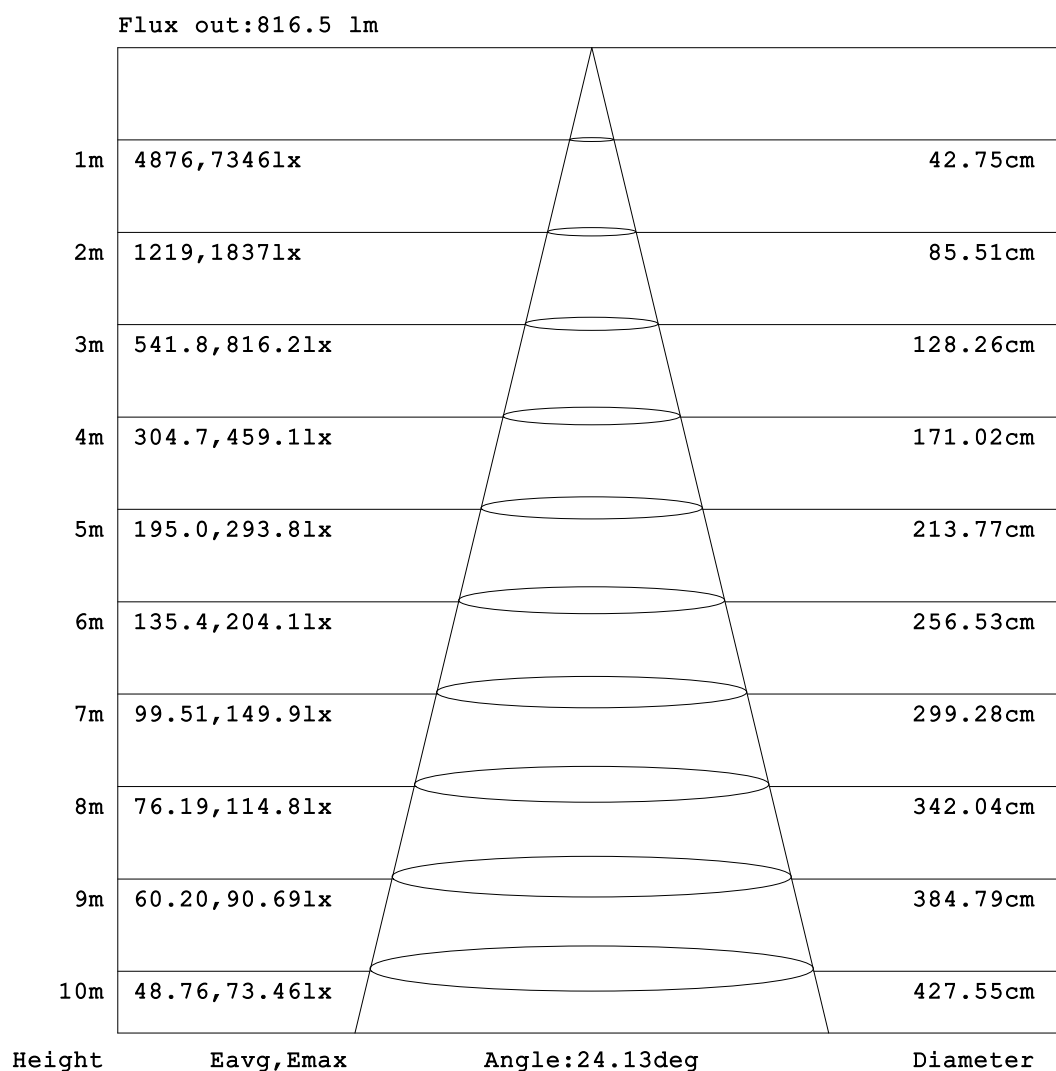
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Cloud  
Test Date:2024-09-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
Test Distance:6.350m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:24.000V I:1.4597A P:35.033W PF:1.0000 Freq:0Hz Lamp Flux:1813.19x1 lm		
NAME: AW01-24V-3535-18-3000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



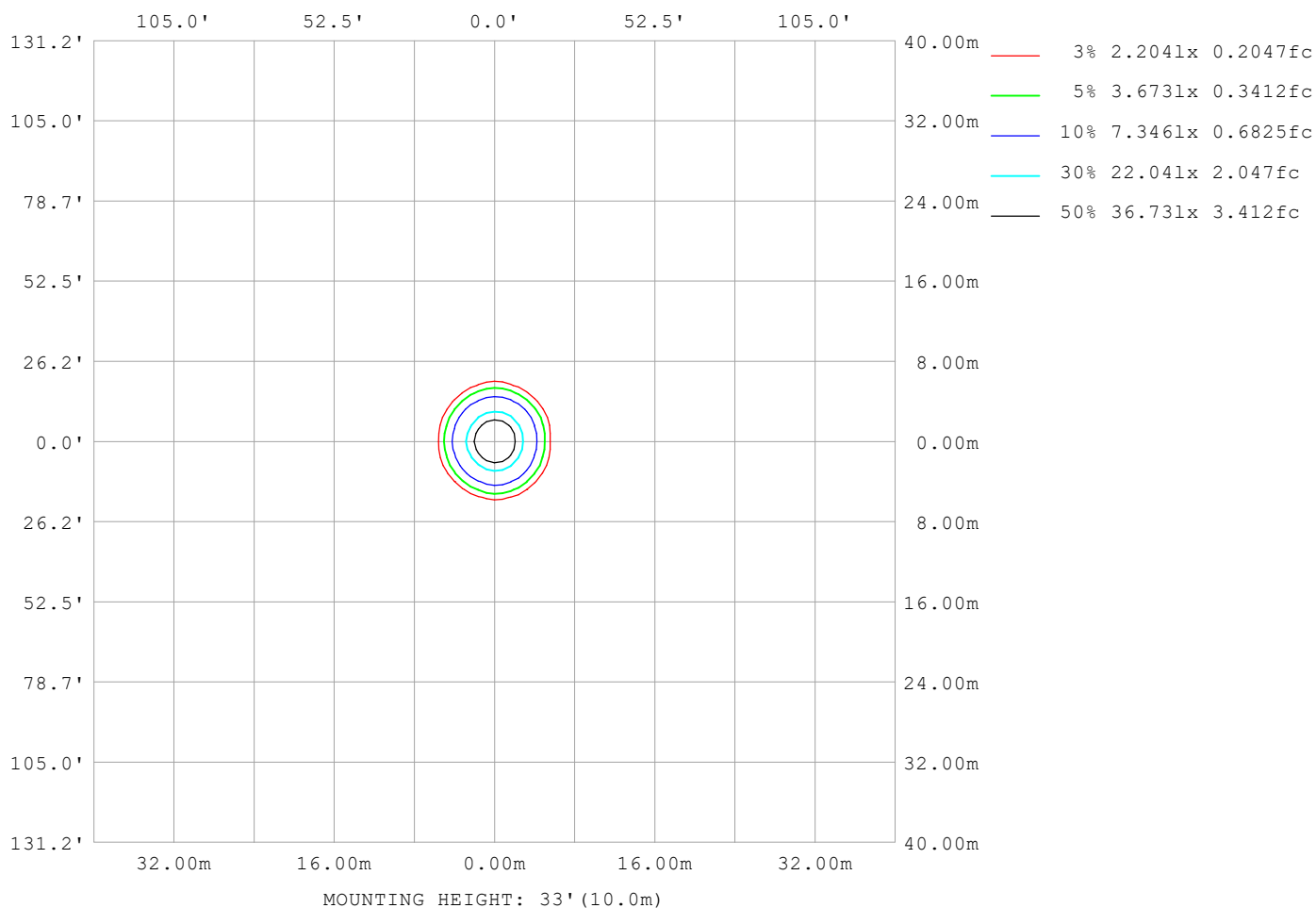
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Cloud  
Test Date:2024-09-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
Test Distance:6.350m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

Test:U:24.000V I:1.4597A P:35.033W PF:1.0000 Freq:0Hz Lamp Flux:1813.19x1 lm		
NAME: AW01-24V-3535-18-3000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:Cloud  
Test Date:2024-09-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
Test Distance:6.350m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:24.000V I:1.4597A P:35.033W PF:1.0000 Freq:0Hz Lamp Flux:1813.19x1 lm		
NAME: AW01-24V-3535-18-3000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

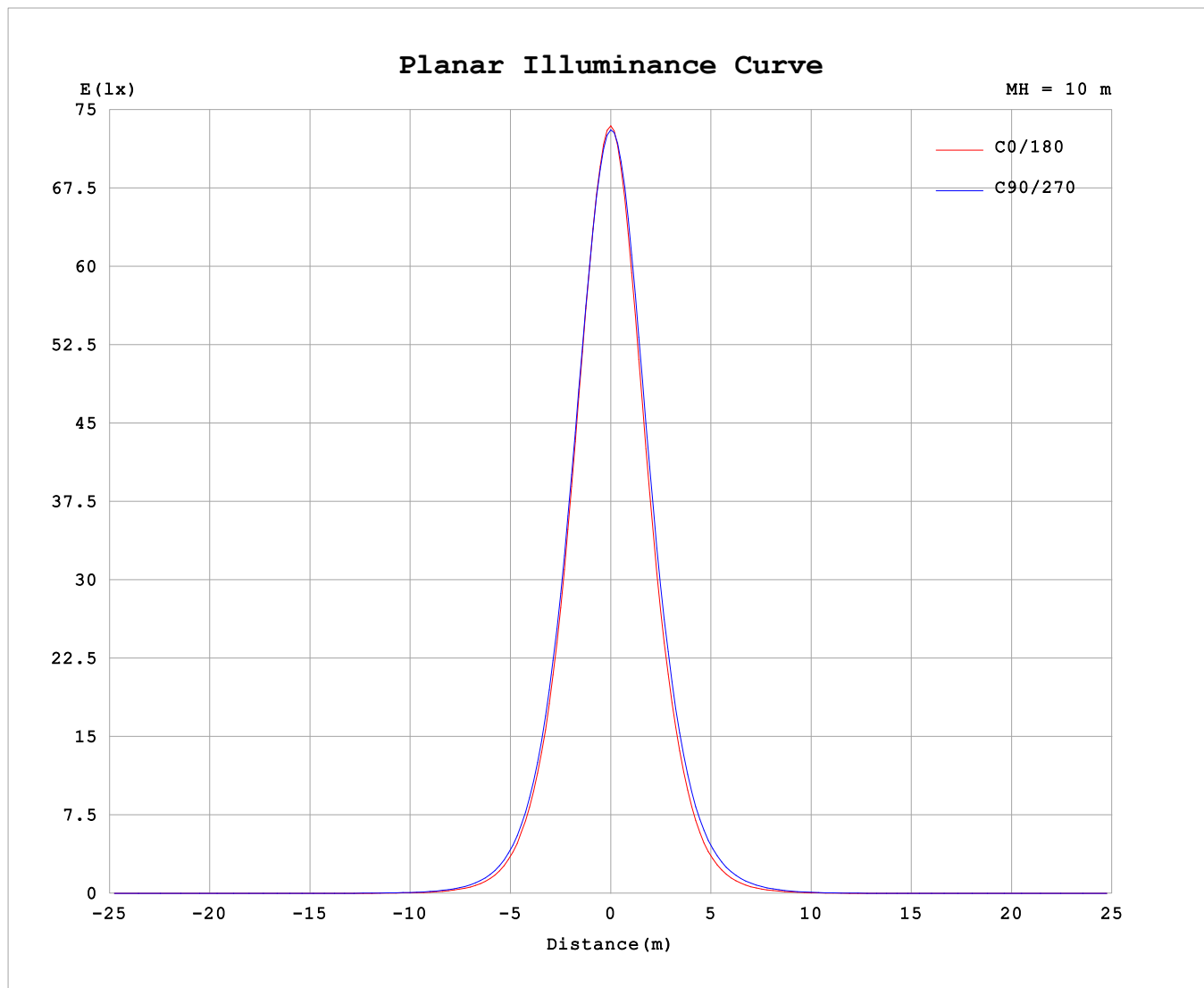
AvgL	cd/m2
L_0~180 (65) av	634
L_0~180 (75) av	977
L_0~180 (85) av	2612
L_90~270 (65) av	665
L_90~270 (75) av	973
L_90~270 (85) av	2618
L_45 (65) av	667
L_45 (75) av	982
L_45 (85) av	2620

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Cloud  
Test Date:2024-09-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
Test Distance:6.350m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators: Cloud  
 Test Date: 2024-09-23

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity: 65.0%  
 Test Distance: 6.350m [K=1.0000]  
 Remarks:

<b>Test:U:24.000V I:1.4597A P:35.033W PF:1.0000 Freq:0Hz</b> <b>Lamp Flux:1813.19x1 lm</b>		
<b>NAME:</b> AW01-24V-3535-18-3000-80-30-B-1000	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPEC.:</b>	<b>DIM.: Length=1m</b>	<b>SERIAL No.:</b>
<b>MFR.:</b>	<b>SUR.:</b>	<b>Shielding Angle:</b>

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.350m [K=1.0000]
Remarks:

```