

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.000V I:1.4566A P:34.958W PF:1.0000 Freq:0Hz  
Lamp Flux:1656.9x1 lm

NAME: AW01-24V-3535-18-3000-80-15-B-1000

TYPE:

WEIGHT:

SPEC.:

DIM.: Length=1m

SERIAL No.:

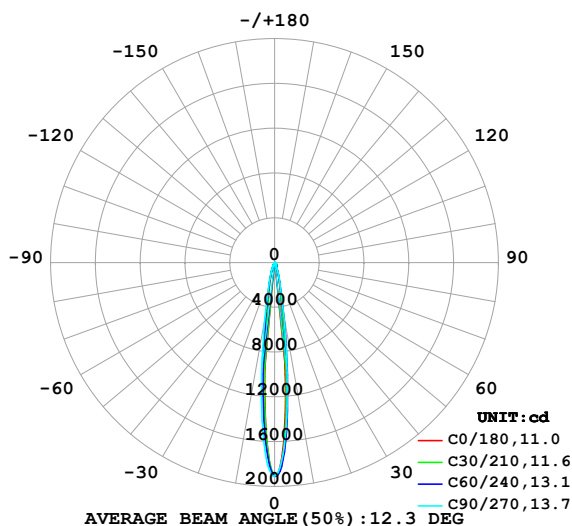
MFR.:

SUR.:

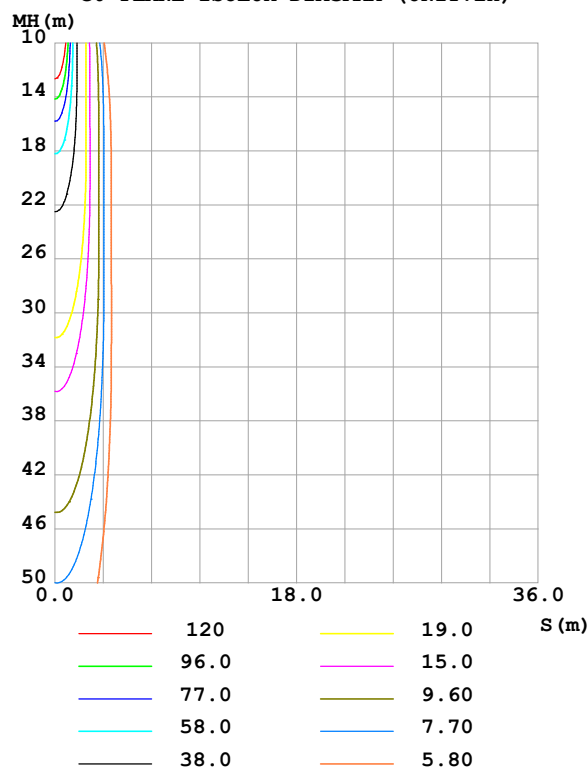
Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 47.40 lm/W
MODEL		Imax (cd)	19175	S/MH (C0/180)	0.19	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.24	
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1656.9	$\eta$ UP,DN (C0-180)	0.0,49.1	
NOMINAL FLUX (lm)	1656.9	CIE CLASS	DIRECT	$\eta$ UP,DN (C180-360)	0.0,50.9	
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)		$\eta$ 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: MEDIUM  
Temperature:25.3℃  
Operators:Cloud  
Test Date:2024-09-23

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
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	342.1	424.7	466.4	363.6	339.4	392.4	497.9	446.3	0- 10	862.1	862.1	52,52
20	71.24	81.98	86.62	80.39	76.72	85.28	93.20	87.48	10- 20	507.3	1369	82.6,82.6
30	15.64	18.76	20.08	17.76	15.94	18.21	20.58	19.69	20- 30	189.7	1559	94.1,94.1
40	3.127	4.169	4.704	4.012	3.233	3.945	4.679	4.297	30- 40	58.12	1617	97.6,97.6
50	0.8360	1.011	1.258	0.9817	0.8210	0.9273	1.163	0.9837	40- 50	15.98	1633	98.6,98.6
60	0.6355	0.6827	0.6868	0.6832	0.6185	0.6290	0.6352	0.6380	50- 60	6.749	1640	99,99
70	0.6249	0.6169	0.5829	0.6297	0.5247	0.5401	0.5582	0.5437	60- 70	6.090	1646	99.3,99.3
80	0.5745	0.5128	0.4852	0.5627	0.4648	0.4778	0.4980	0.4808	70- 80	5.760	1652	99.7,99.7
90	0.4310	0.4054	0.3955	0.4381	0.4347	0.4425	0.4571	0.4448	80- 90	5.098	1657	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): 1627.7 lm

%lum = 98.2%

%lamp = 98.2%

Conical surface Flux(130deg): 1643 lm

%lum = 99.2%

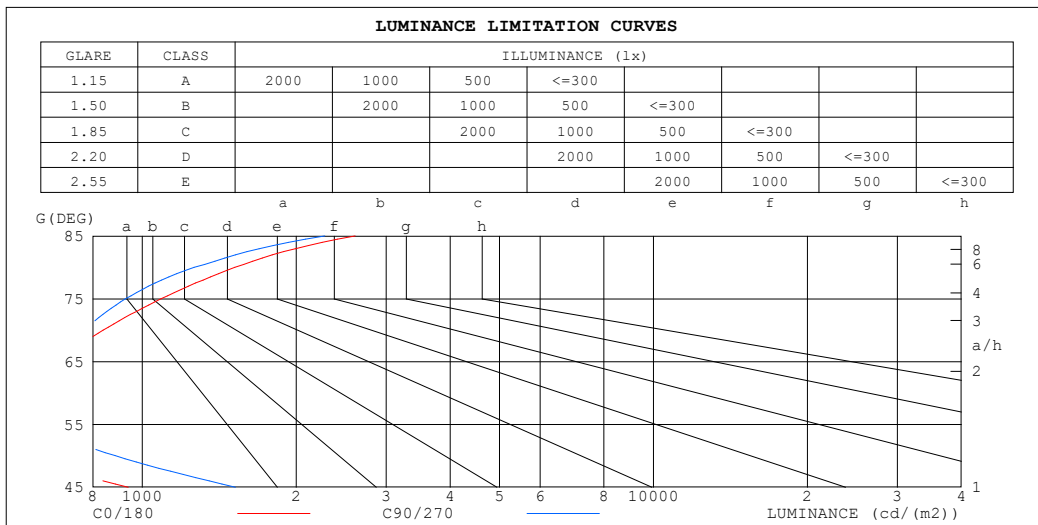
%lamp = 99.2%

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 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:1.4566A P:34.958W PF:1.0000 Freq:0Hz Lamp Flux:1656.9x1 lm		
NAME: AW01-24V-3535-18-3000-80-15-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



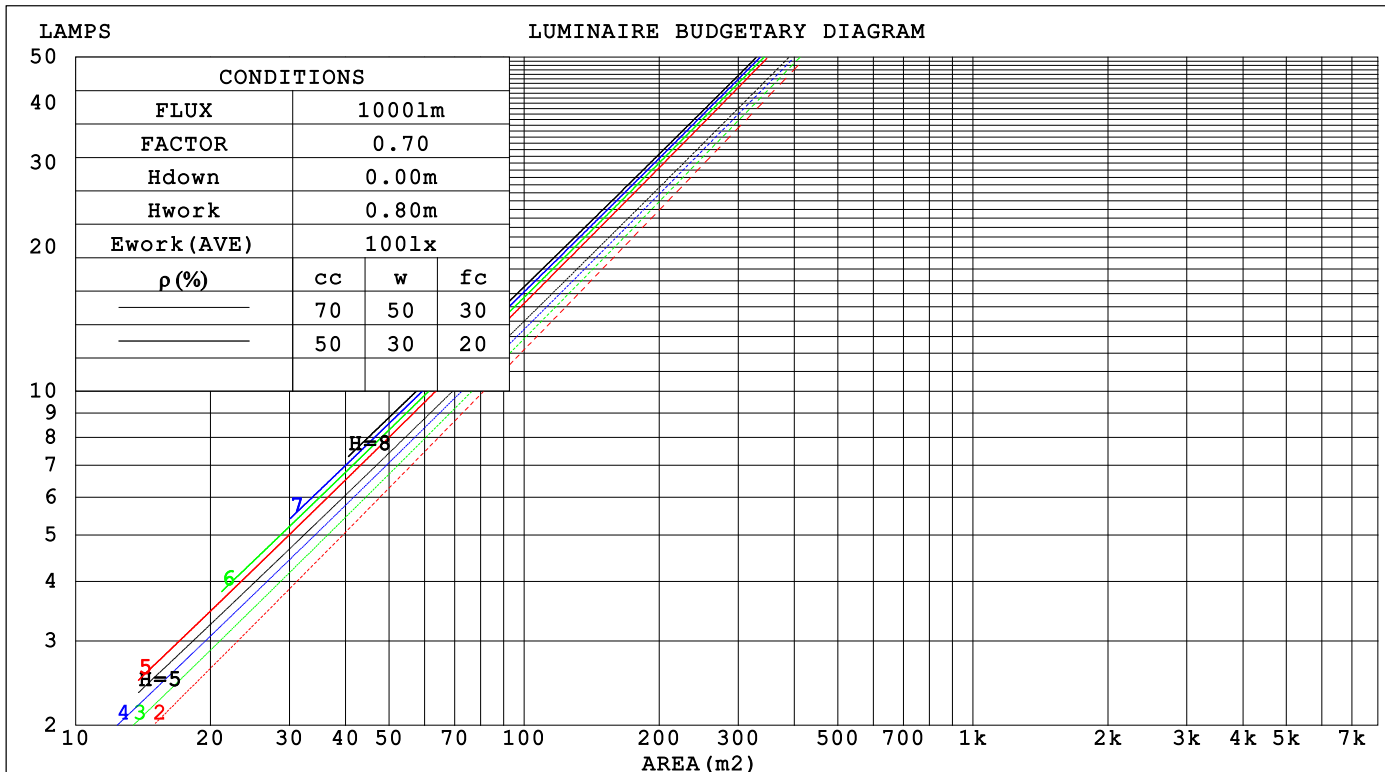
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Temperature: 25.3°C  
Operators: Cloud  
Test Date: 2024-09-23

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
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:1.4566A P:34.958W PF:1.0000 Freq:0Hz Lamp Flux:1656.9x1 lm		
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SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p <sub>fc</sub>	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	1.13	1.11	1.10	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.02	1.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.07	1.04	1.02	1.04	1.01	.00	1.01	.99	.98	.98	.97	.96	.94
3.0	1.04	1.01	.98	1.03	.00	.97	1.00	.98	.96	.98	.96	.94	.96	.94	.93	.92
4.0	1.01	.97	.94	.00	.96	.94	.98	.95	.93	.96	.94	.92	.94	.92	.91	.90
5.0	.98	.94	.91	.97	.93	.91	.95	.92	.90	.94	.91	.89	.92	.90	.88	.87
6.0	.95	.91	.88	.94	.91	.88	.93	.90	.88	.92	.89	.87	.91	.88	.86	.85
7.0	.92	.89	.86	.92	.88	.86	.91	.88	.85	.90	.87	.85	.89	.86	.85	.84
8.0	.90	.87	.84	.90	.86	.84	.89	.86	.84	.88	.85	.83	.87	.85	.83	.82
9.0	.88	.85	.82	.88	.84	.82	.87	.84	.82	.86	.84	.82	.86	.83	.81	.80
10.0	.86	.83	.80	.86	.83	.80	.85	.82	.80	.85	.82	.80	.84	.82	.80	.79



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γ Interval: 0.5DEG  
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:1.4566A P:34.958W PF:1.0000 Freq:0Hz Lamp Flux:1656.9x1 lm					
NAME: AW01-24V-3535-18-3000-80-15-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	.132	.075	.024	.126	.072	.023	.113	.065	.021	.102	.059	.019	.092	.053	.017		
2.0	.121	.066	.020	.115	.063	.020	.105	.058	.018	.096	.054	.017	.087	.049	.016		
3.0	.111	.059	.018	.106	.057	.017	.098	.053	.016	.090	.049	.015	.083	.046	.014		
4.0	.103	.053	.016	.099	.052	.015	.092	.049	.015	.085	.046	.014	.079	.043	.013		
5.0	.096	.049	.014	.093	.048	.014	.087	.045	.013	.081	.043	.013	.076	.041	.012		
6.0	.090	.045	.013	.087	.044	.013	.082	.042	.012	.077	.040	.012	.073	.038	.011		
7.0	.085	.042	.012	.083	.041	.012	.078	.039	.011	.074	.038	.011	.070	.036	.011		
8.0	.080	.039	.011	.078	.039	.011	.074	.037	.011	.071	.036	.010	.067	.035	.010		
9.0	.076	.037	.010	.075	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.010		
10.0	.073	.035	.010	.071	.034	.010	.068	.033	.009	.065	.032	.009	.063	.032	.009		

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	.168	.158	.148	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017		
2.0	.149	.133	.119	.128	.114	.103	.088	.079	.072	.051	.046	.042	.016	.015	.014		
3.0	.134	.113	.097	.115	.098	.084	.079	.068	.059	.045	.040	.035	.015	.013	.011		
4.0	.121	.098	.080	.104	.084	.070	.071	.059	.049	.041	.034	.029	.013	.011	.010		
5.0	.110	.085	.067	.094	.074	.058	.065	.052	.041	.038	.030	.024	.012	.010	.008		
6.0	.100	.075	.057	.086	.065	.050	.060	.046	.035	.035	.027	.021	.011	.009	.007		
7.0	.092	.067	.049	.079	.058	.042	.055	.041	.030	.032	.024	.018	.010	.008	.006		
8.0	.085	.060	.042	.074	.052	.037	.051	.036	.026	.030	.021	.016	.010	.007	.005		
9.0	.080	.054	.037	.069	.047	.032	.047	.033	.023	.028	.019	.014	.009	.006	.004		
10.0	.074	.049	.032	.064	.043	.028	.044	.030	.020	.026	.018	.012	.008	.006	.004		

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

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
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:1.4566A P:34.958W PF:1.0000 Freq:0Hz Lamp Flux:1656.9x1 lm										
NAME: AW01-24V-3535-18-3000-80-15-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	1.6	2.2	1.8	2.3	2.5	2.6	3.2	2.8	3.3	3.5
3H	2.5	3.0	2.7	3.2	3.4	3.2	3.7	3.4	3.9	4.1
4H	3.3	3.8	3.5	4.0	4.2	3.7	4.2	3.9	4.4	4.6
6H	4.4	4.9	4.7	5.1	5.4	4.4	4.9	4.7	5.1	5.4
8H	5.1	5.6	5.4	5.8	6.1	4.9	5.4	5.2	5.6	5.9
12H	5.9	6.3	6.2	6.6	6.9	5.5	6.0	5.8	6.3	6.5
4H 2H	1.8	2.3	2.0	2.5	2.7	2.6	3.2	2.9	3.4	3.6
3H	3.0	3.5	3.3	3.7	4.0	3.5	4.0	3.8	4.2	4.5
4H	4.1	4.5	4.4	4.8	5.1	4.2	4.7	4.6	5.0	5.3
6H	5.5	5.9	5.8	6.2	6.5	5.3	5.7	5.6	6.0	6.3
8H	6.3	6.7	6.7	7.0	7.4	5.9	6.3	6.3	6.6	7.0
12H	7.2	7.6	7.6	7.9	8.3	6.7	7.1	7.1	7.4	7.8
8H 4H	4.5	4.8	4.9	5.2	5.5	4.6	5.0	5.0	5.3	5.7
6H	6.2	6.5	6.6	6.9	7.3	5.9	6.2	6.3	6.6	7.0
8H	7.2	7.4	7.6	7.9	8.3	6.8	7.0	7.2	7.4	7.9
12H	8.3	8.6	8.8	9.0	9.5	7.8	8.0	8.3	8.5	8.9
12H 4H	4.6	4.9	5.0	5.3	5.6	4.7	5.0	5.1	5.4	5.8
6H	6.3	6.6	6.8	7.0	7.5	6.1	6.4	6.6	6.8	7.2
8H	7.5	7.7	7.9	8.1	8.6	7.1	7.3	7.5	7.7	8.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.4 / - 0.4					+ 0.7 / - 0.6				
1.5H	+ 0.7 / - 0.3					+ 1.6 / - 0.5				
2.0H	+ 0.2 / - 0.2					+ 0.5 / - 0.3				

CIE Pub.117, 1657 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.8)  
Area: 0.022 m2

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

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
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:1.4566A P:34.958W PF:1.0000 Freq:0Hz Lamp Flux:1656.9x1 lm		
NAME: AW01-24V-3535-18-3000-80-15-B-1000	TYPE:	WEIGHT:
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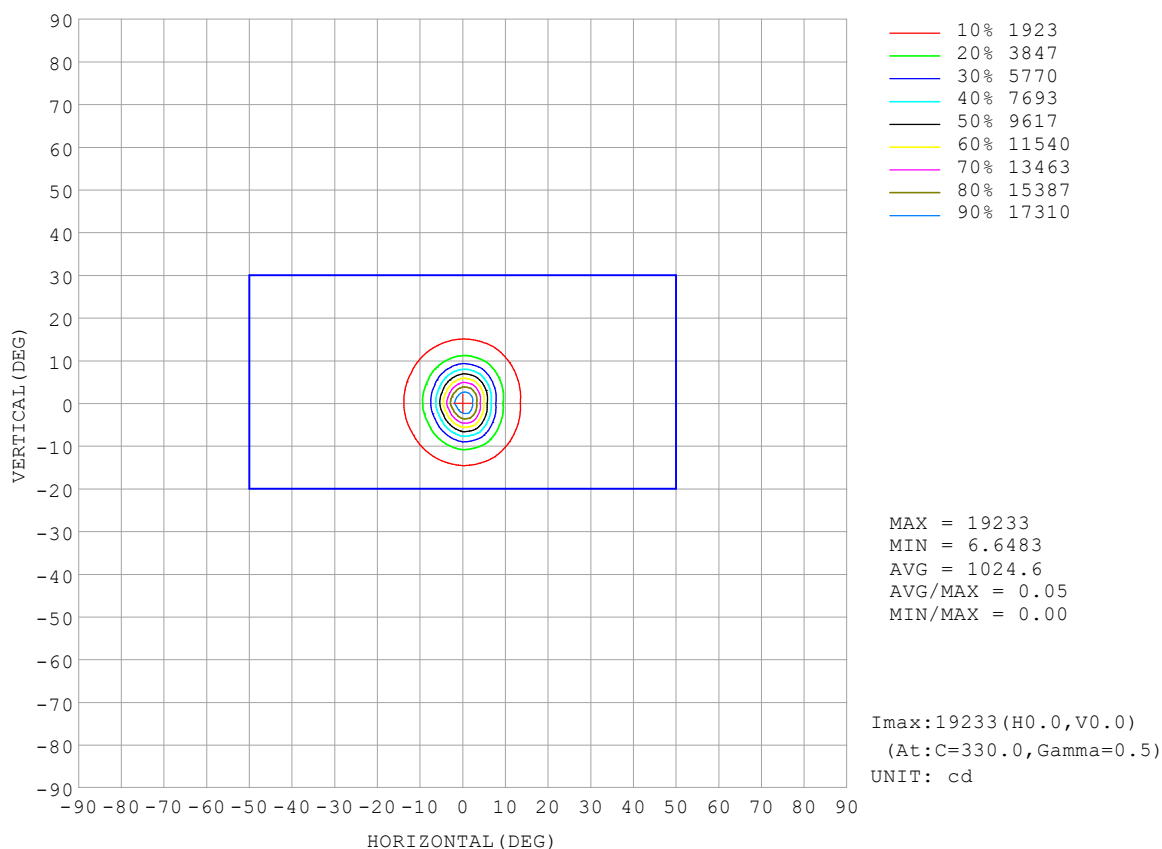
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	90	84	81	89	84	81	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	92	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	95	91
1.50	107	103	100	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	110	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		

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Operators: Cloud  
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γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
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:1.4566A P:34.958W PF:1.0000 Freq:0Hz Lamp Flux:1656.9x1 lm		
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SPEC.:	DIM.: Length=1m	SERIAL No.:
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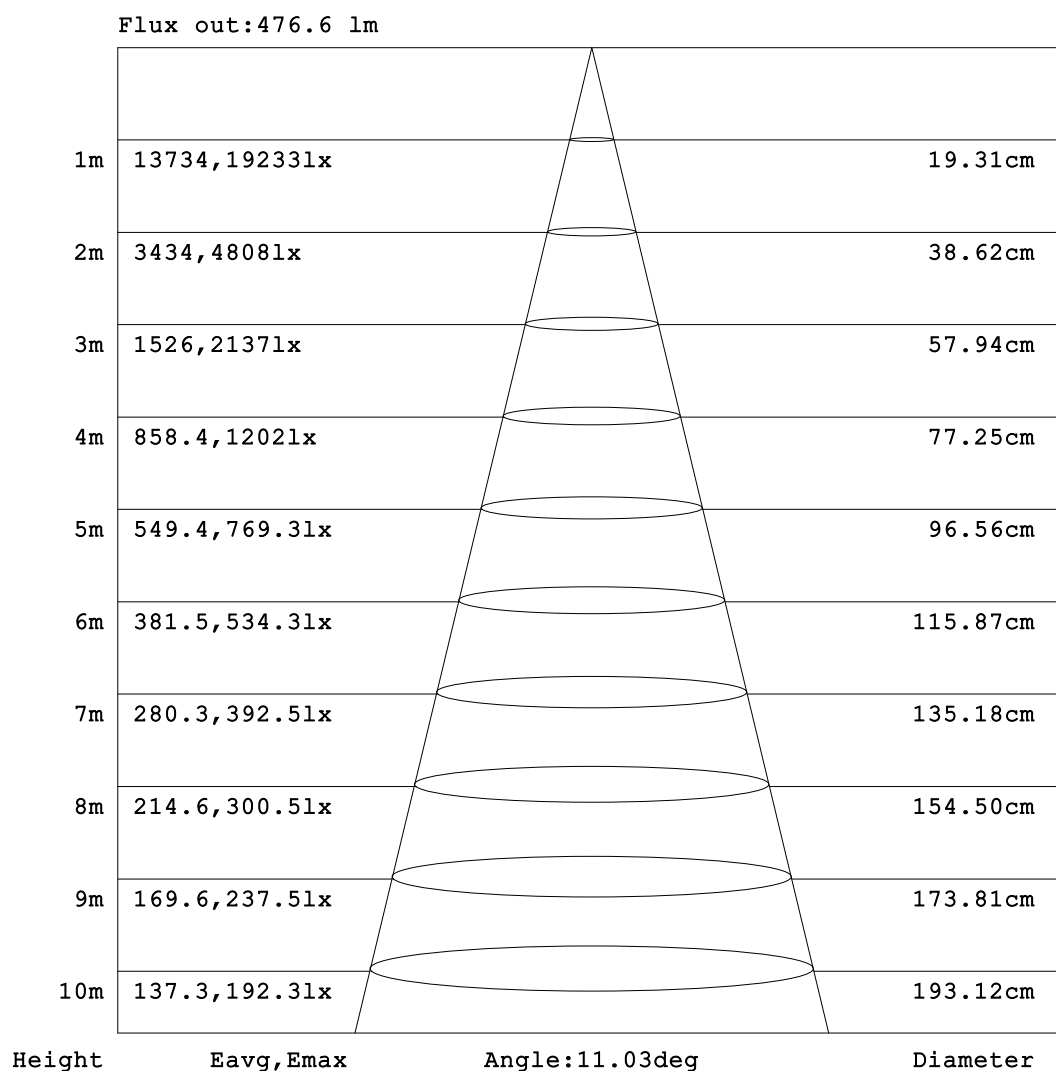
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γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
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Remarks:



### AAI Figure

Test:U:24.000V I:1.4566A P:34.958W PF:1.0000 Freq:0Hz Lamp Flux:1656.9x1 lm		
NAME: AW01-24V-3535-18-3000-80-15-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



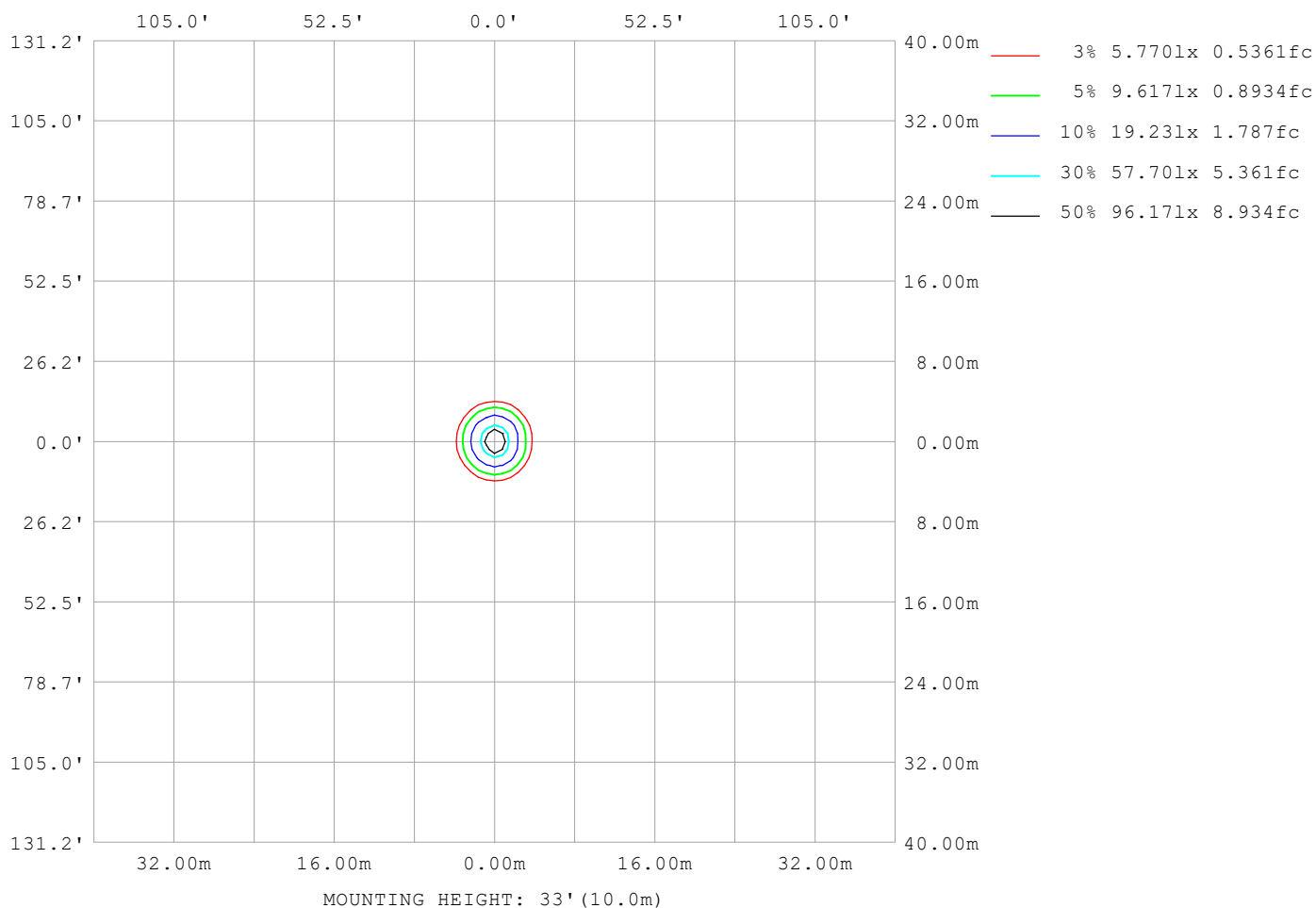
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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C Interval: 30.0DEG  
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Temperature:25.3℃  
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γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
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:1.4566A P:34.958W PF:1.0000 Freq:0Hz Lamp Flux:1656.9x1 lm		
NAME: AW01-24V-3535-18-3000-80-15-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



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C Interval: 30.0DEG  
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γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
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:1.4566A P:34.958W PF:1.0000 Freq:0Hz Lamp Flux:1656.9x1 lm		
NAME: AW01-24V-3535-18-3000-80-15-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

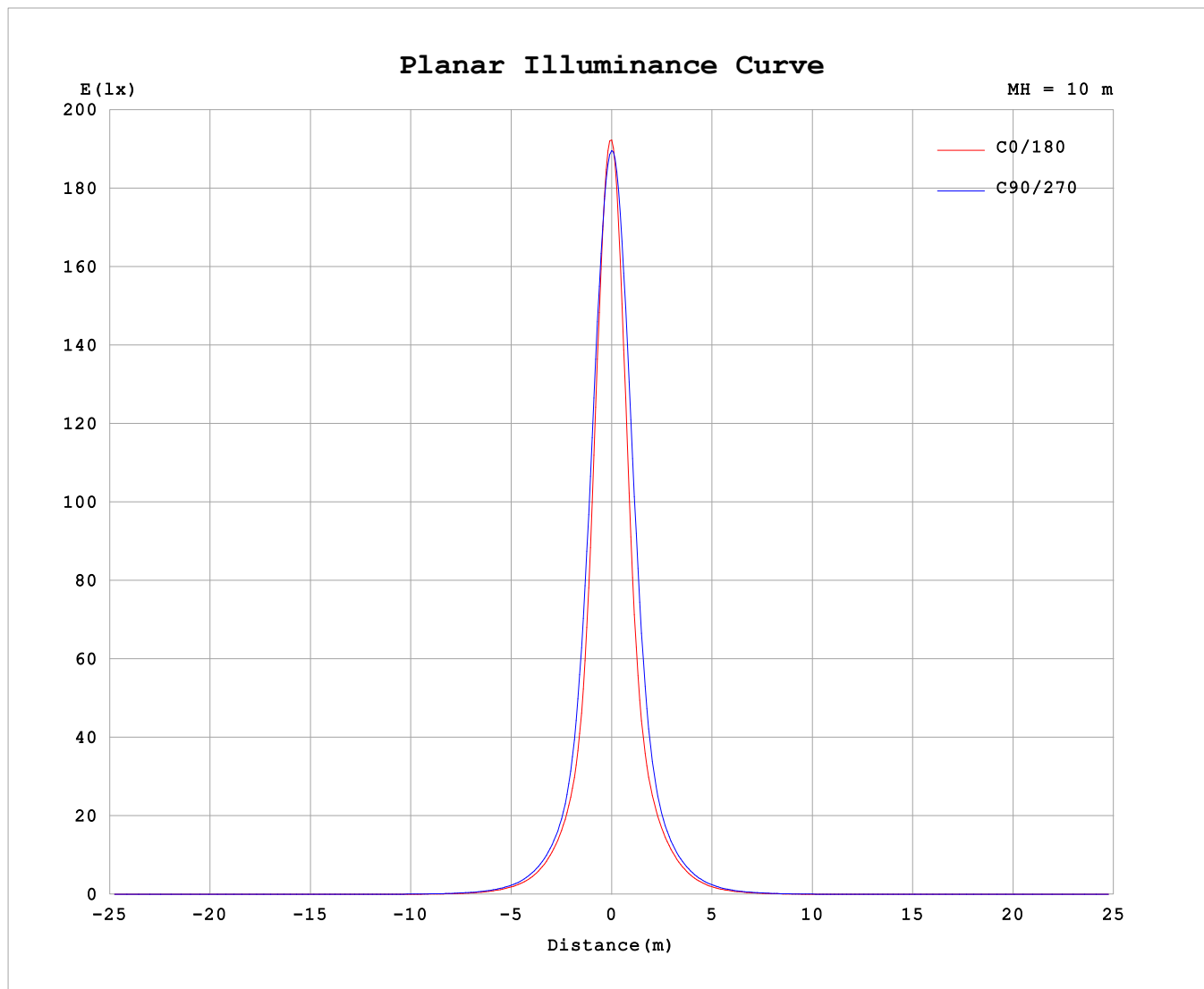
AvgL	cd/m2
L_0~180 (65) av	644
L_0~180 (75) av	970
L_0~180 (85) av	2459
L_90~270 (65) av	659
L_90~270 (75) av	929
L_90~270 (85) av	2380
L_45 (65) av	665
L_45 (75) av	964
L_45 (85) av	2440

Standard: GB/T 29293-2012

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

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
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: MEDIUM  
Temperature: 25.3 °C  
Operators: Cloud  
Test Date: 2024-09-23

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity: 65.0%  
Test Distance: 6.350m [K=1.0000]  
Remarks:

Test:U:24.000V I:1.4566A P:34.958W PF:1.0000 Freq:0Hz Lamp Flux:1656.9x1 lm		
NAME: AW01-24V-3535-18-3000-80-15-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

UNIT: X10cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.350m [K=1.0000]
Remarks:

```