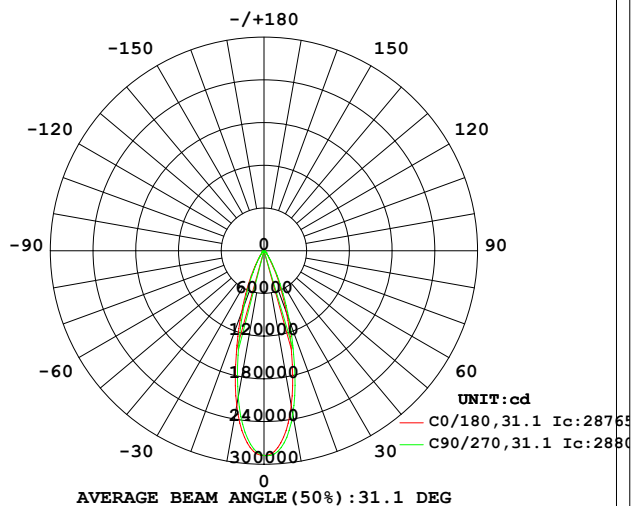


## LUMINAIRE PHOTOMETRIC TEST REPORT

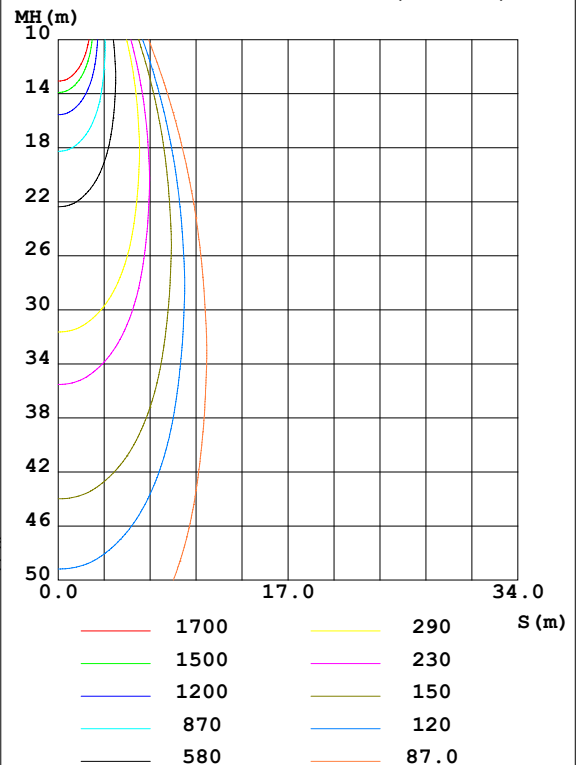
Test:U:219.0V I:3.296A P:715.6W PF:0.9913 Freq:49.99Hz Lamp Flux:109447x1 lm		
NAME: AOK win	TYPE:LED	WEIGHT:8.5KG
SPEC.:AOK-720WiNS-NV-L5-00-5070-30D-P	DIM.: $\phi$ 550*200mm	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 530mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.94 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	288073	S/MH (C0/180)	0.52
NOMINAL POWER (W)	720	LOR (%)	100.0	S/MH (C90/270)	0.49
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	109447	$\eta$ UP, DN (C0-180)	0.0, 52.8
NOMINAL FLUX (lm)	109447	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 47.2
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-08-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.801m [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	2208	2290	2333	2290	2208	2111	2086	2111	0- 10	24222	24222	22.1, 22.1
20	925.5	1006	1039	1006	925.5	850.4	822.8	850.4	10- 20	41487	65709	60, 60
30	260.6	287.8	299.0	287.8	260.6	226.4	219.2	226.4	20- 30	24084	89794	82, 82
40	72.59	78.03	80.42	78.03	72.59	66.81	65.79	66.81	30- 40	8540	98334	89.8, 89.8
50	37.51	39.24	39.13	39.24	37.51	37.69	36.73	37.69	40- 50	3896	102230	93.4, 93.4
60	28.27	29.50	29.03	29.50	28.27	28.69	28.00	28.69	50- 60	2919	105149	96.1, 96.1
70	19.83	20.48	20.66	20.48	19.83	19.58	19.69	19.58	60- 70	2361	107509	98.2, 98.2
80	9.190	9.749	10.36	9.749	9.190	8.727	8.681	8.727	70- 80	1541	109050	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	396.5	109447	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	109447	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	109447	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	109447	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	109447	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	109447	100, 100
150	0	0	0	0	0	0	0	0	140-150	0	109447	100, 100
160	0	0	0	0	0	0	0	0	150-160	0	109447	100, 100
170	0	0	0	0	0	0	0	0	160-170	0	109447	100, 100
180	0	0	0	0	0	0	0	0	170-180	0	109447	100, 100
DEG	LUMINOUS INTENSITY: $\times 100\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 1.0051e+005 lm

%lum = 91.8%

%lamp = 91.8%

Conical surface Flux(120deg): 1.0515e+005 lm

%lum = 96.1%

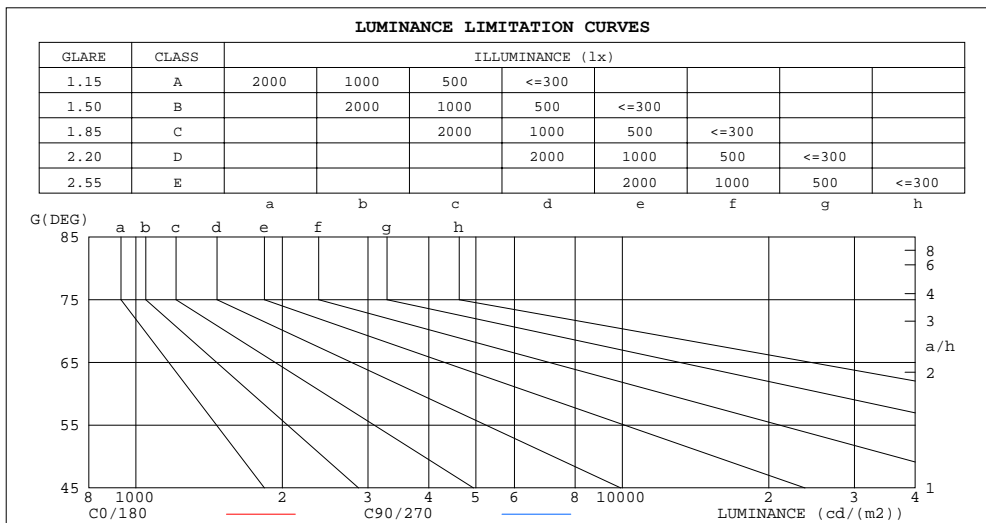
%lamp = 96.1%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2019-08-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.801m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:219.0V I:3.296A P:715.6W PF:0.9913 Freq:49.99Hz Lamp Flux:109447x1 lm		
NAME: AOK win	TYPE:LED	WEIGHT:8.5KG
SPEC.:AOK-720WiNS-NV-L5-00-5070-30D-P	DIM.: $\Phi$ 550*200mm	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 530mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	36672	47634
80	53380	59539
75	59187	62311
70	58477	60315
65	57534	58652
60	57036	57972
55	56620	57546
50	58864	60774
45	69679	73929

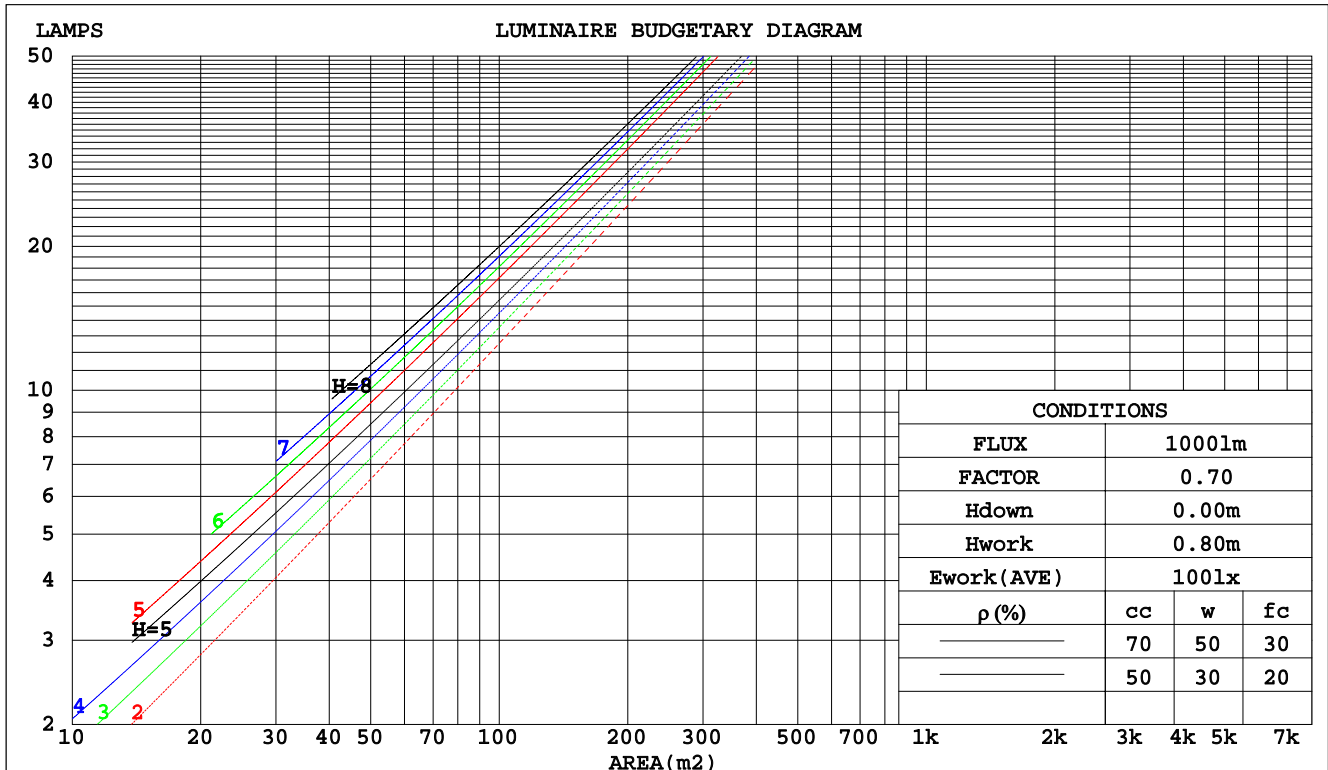
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2019-08-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.801m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.0V I:3.296A P:715.6W PF:0.9913 Freq:49.99Hz Lamp Flux:109447x1 lm		
NAME: AOK win	TYPE:LED	WEIGHT:8.5KG
SPEC.:AOK-720WiNS-NV-L5-00-5070-30D-P	DIM.: $\phi$ 550*200mm	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 530mm	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	1.11	1.08	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.97	.96	.94
2.0	1.04	.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88
3.0	.98	.93	.89	.96	.92	.89	.94	.90	.87	.91	.88	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.87	.83	.89	.85	.82	.87	.84	.81	.85	.83	.80	.79
5.0	.88	.82	.79	.87	.82	.78	.85	.81	.78	.83	.80	.77	.82	.79	.76	.75
6.0	.84	.78	.74	.83	.78	.74	.81	.77	.74	.80	.76	.73	.79	.75	.73	.71
7.0	.80	.75	.71	.79	.74	.71	.78	.73	.70	.77	.73	.70	.76	.72	.70	.68
8.0	.76	.71	.68	.76	.71	.67	.75	.70	.67	.74	.70	.67	.73	.69	.67	.65
9.0	.73	.68	.65	.73	.68	.65	.72	.68	.64	.71	.67	.64	.70	.67	.64	.63
10.0	.71	.66	.62	.70	.65	.62	.69	.65	.62	.69	.65	.62	.68	.64	.62	.60



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-08-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.801m [K=1.0000]  
 Remarks:

## WEC AND CCEC

Test:U:219.0V I:3.296A P:715.6W PF:0.9913 Freq:49.99Hz Lamp Flux:109447x1 lm		
NAME: AOK win	TYPE:LED	WEIGHT:8.5KG
SPEC.:AOK-720WiNS-NV-L5-00-5070-30D-P	DIM.: $\phi$ 550*200mm	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 530mm	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	.175	.099	.031	.168	.096	.030	.155	.089	.028	.144	.083	.027	.133	.077	.025	
2.0	.163	.089	.027	.158	.087	.027	.147	.082	.025	.137	.077	.024	.128	.073	.023	
3.0	.152	.081	.024	.148	.079	.024	.139	.075	.023	.130	.071	.022	.123	.068	.021	
4.0	.143	.074	.022	.139	.072	.021	.131	.069	.021	.124	.066	.020	.117	.064	.019	
5.0	.134	.068	.020	.131	.067	.020	.124	.065	.019	.118	.062	.018	.112	.060	.018	
6.0	.126	.063	.018	.123	.062	.018	.118	.060	.018	.112	.058	.017	.107	.056	.017	
7.0	.120	.059	.017	.117	.058	.017	.112	.057	.016	.107	.055	.016	.103	.053	.016	
8.0	.114	.056	.016	.111	.055	.015	.107	.053	.015	.103	.052	.015	.099	.051	.015	
9.0	.108	.052	.015	.106	.052	.015	.102	.051	.014	.098	.049	.014	.095	.048	.014	
10.0	.103	.050	.014	.102	.049	.014	.098	.048	.014	.095	.047	.013	.091	.046	.013	

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.068	.052	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.131	.099	.074	.112	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.121	.087	.062	.104	.075	.054	.072	.052	.038	.041	.031	.022	.013	.010	.007	
6.0	.113	.077	.052	.097	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.106	.069	.044	.091	.060	.038	.063	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.099	.063	.038	.085	.055	.033	.059	.038	.023	.034	.023	.014	.011	.007	.005	
9.0	.094	.057	.033	.081	.050	.029	.056	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.089	.053	.029	.077	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2019-08-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.801m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:219.0V I:3.296A P:715.6W PF:0.9913 Freq:49.99Hz Lamp Flux:109447x1 lm											
NAME: AOK win					TYPE:LED			WEIGHT:8.5KG			
SPEC.:AOK-720WiNS-NV-L5-00-5070-30D-P					DIM.: $\Phi$ 550*200mm			SERIAL No.:			
MFR.: AOK					SUR.: $\Phi$ 530mm			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		5.7	6.6	5.9	6.7	6.9	5.9	6.8	6.2	7.0	7.1
	3H	7.1	7.9	7.3	8.1	8.3	7.3	8.1	7.5	8.3	8.5
	4H	7.8	8.5	8.1	8.7	9.0	8.0	8.7	8.3	9.0	9.2
	6H	8.3	9.0	8.6	9.3	9.5	8.6	9.3	8.9	9.5	9.8
	8H	8.5	9.2	8.8	9.4	9.7	8.8	9.5	9.1	9.7	10.0
	12H	8.6	9.2	8.9	9.5	9.8	8.9	9.6	9.2	9.8	10.1
4H	2H	6.2	7.0	6.5	7.2	7.4	6.4	7.2	6.7	7.4	7.6
	3H	7.9	8.5	8.2	8.8	9.1	8.0	8.7	8.3	9.0	9.2
	4H	8.7	9.3	9.0	9.6	9.9	8.9	9.5	9.2	9.8	10.1
	6H	9.4	9.9	9.7	10.2	10.6	9.6	10.1	10.0	10.5	10.8
	8H	9.6	10.1	10.0	10.4	10.8	9.9	10.3	10.2	10.7	11.1
	12H	9.7	10.1	10.1	10.5	10.9	10.0	10.5	10.4	10.8	11.2
8H	4H	9.0	9.5	9.4	9.9	10.2	9.2	9.7	9.6	10.0	10.4
	6H	9.8	10.2	10.3	10.6	11.0	10.0	10.5	10.5	10.8	11.3
	8H	10.1	10.5	10.5	10.9	11.3	10.4	10.7	10.8	11.1	11.6
	12H	10.3	10.6	10.7	11.0	11.5	10.6	10.9	11.0	11.3	11.8
12H	4H	9.0	9.5	9.4	9.9	10.2	9.2	9.6	9.6	10.0	10.4
	6H	9.9	10.3	10.3	10.7	11.1	10.1	10.5	10.5	10.9	11.3
	8H	10.2	10.5	10.7	11.0	11.4	10.5	10.8	10.9	11.2	11.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.3					
1.5H	+ 0.5 / - 0.3					+ 0.6 / - 0.3					
2.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2					

CIE Pub.117, 109447 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 16.3$ )

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2019-08-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.801m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:219.0V I:3.296A P:715.6W PF:0.9913 Freq:49.99Hz Lamp Flux:109447x1 lm		
NAME: AOK win	TYPE:LED	WEIGHT:8.5KG
SPEC.:AOK-720WiNS-NV-L5-00-5070-30D-P	DIM.: $\Phi$ 550*200mm	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 530mm	Shielding Angle:

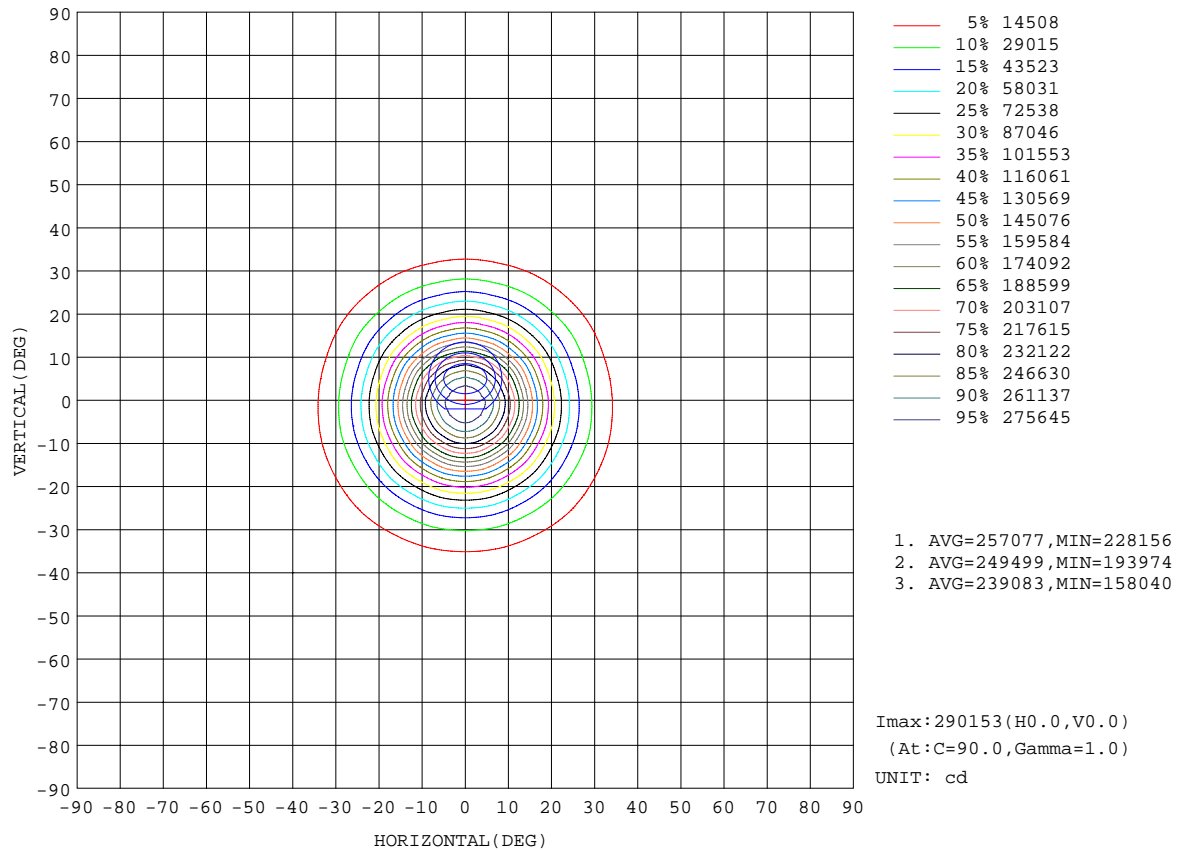
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	85	79	75	85	79	75	84	78	74	71
0.80	93	87	83	92	86	82	91	86	82	78
1.00	97	91	87	96	91	87	95	91	87	82
1.25	101	96	92	100	95	92	98	94	91	86
1.50	104	99	95	103	98	95	101	97	94	89
2.00	107	103	99	106	102	98	103	100	97	91
2.50	109	105	102	107	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	108	111	108	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	98
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:25.3DEG  
Operators:  
Test Date:2019-08-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.801m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:219.0V I:3.296A P:715.6W PF:0.9913 Freq:49.99Hz Lamp Flux:109447x1 lm		
NAME: AOK win	TYPE:LED	WEIGHT:8.5KG
SPEC.:AOK-720WiNS-NV-L5-00-5070-30D-P	DIM.: $\Phi$ 550*200mm	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 530mm	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-08-20

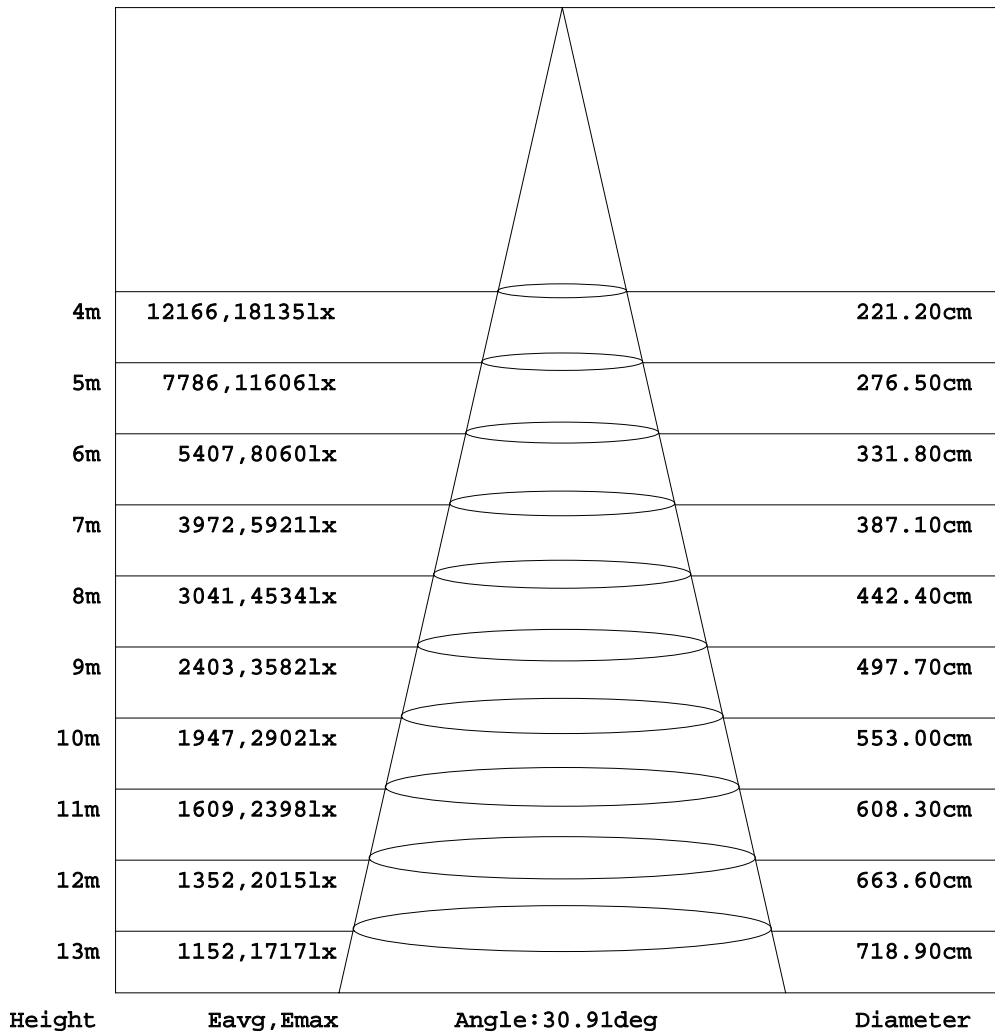
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.801m [K=1.0000]  
 Remarks:



## AAI Figure

Test:U:219.0V I:3.296A P:715.6W PF:0.9913 Freq:49.99Hz Lamp Flux:109447x1 lm		
NAME: AOK win	TYPE:LED	WEIGHT:8.5KG
SPEC.:AOK-720WiNS-NV-L5-00-5070-30D-P	DIM.: $\Phi$ 550*200mm	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 530mm	Shielding Angle:

Flux out:50281 lm



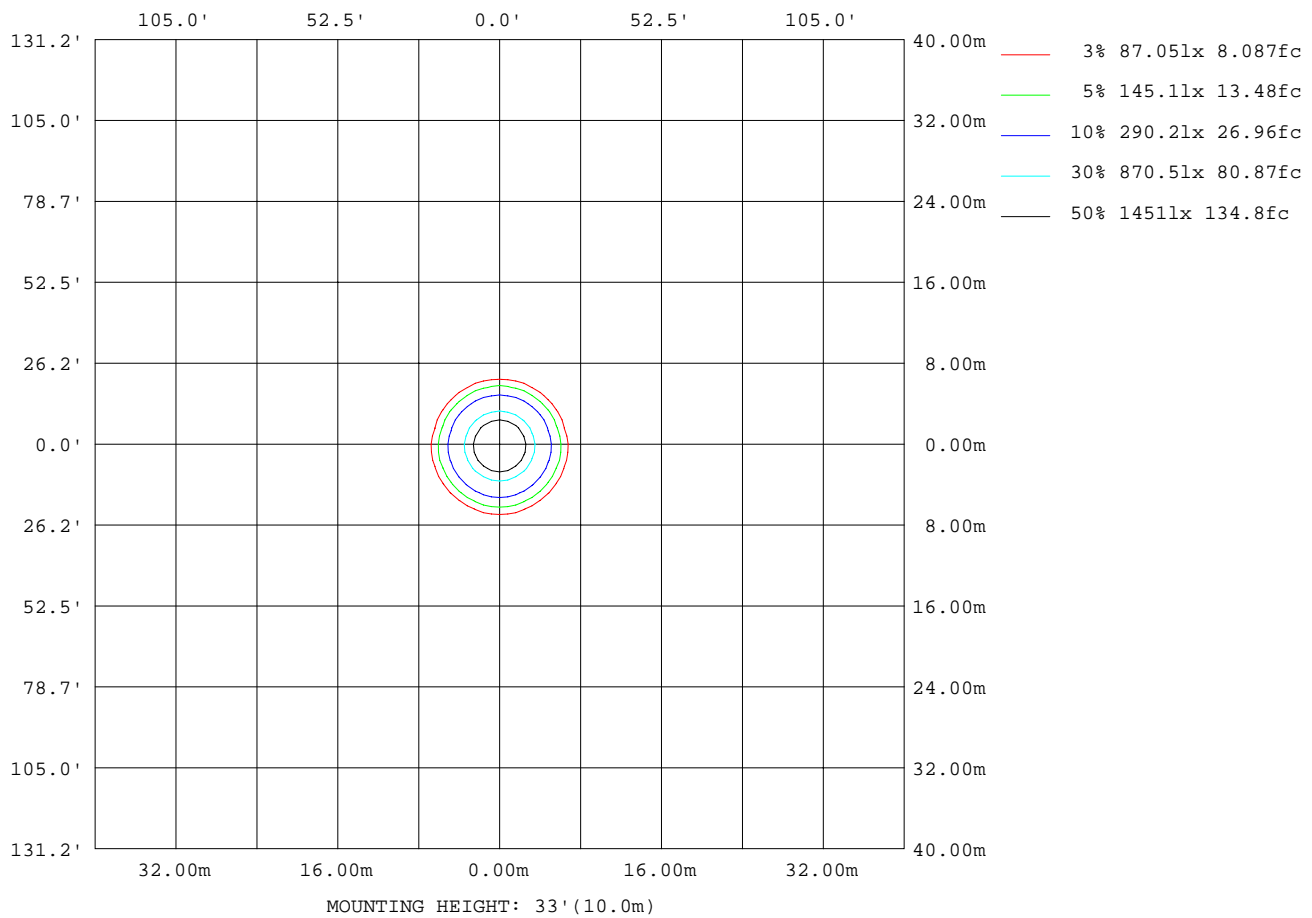
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-08-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.801m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

Test:U:219.0V I:3.296A P:715.6W PF:0.9913 Freq:49.99Hz Lamp Flux:109447x1 lm		
NAME: AOK win	TYPE:LED	WEIGHT:8.5KG
SPEC.:AOK-720WiNS-NV-L5-00-5070-30D-P	DIM.: $\Phi 550 \times 200$ mm	SERIAL No.:
MFR.: AOK	SUR.: $\Phi 530$ mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2019-08-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.801m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:219.0V I:3.296A P:715.6W PF:0.9913 Freq:49.99Hz Lamp Flux:109447x1 lm		
NAME: AOK win	TYPE:LED	WEIGHT:8.5KG
SPEC.:AOK-720WiNS-NV-L5-00-5070-30D-P	DIM.: $\Phi$ 550*200mm	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 530mm	Shielding Angle:

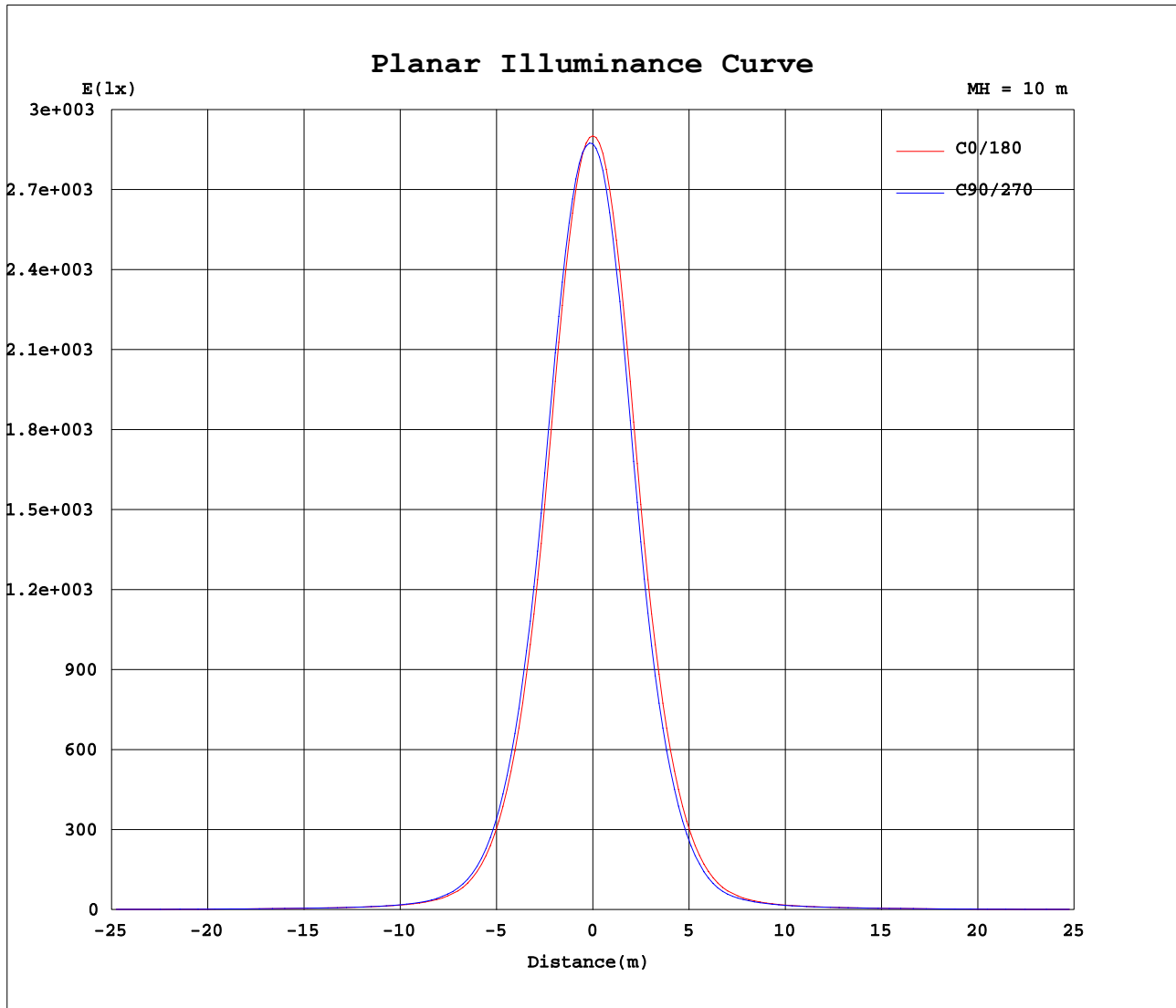
AvgL	cd/m2
L_0~180 (65) av	57039
L_0~180 (75) av	58677
L_0~180 (85) av	36356
L_90~270 (65) av	57794
L_90~270 (75) av	60119
L_90~270 (85) av	39721
L_45 (65) av	58686
L_45 (75) av	57596
L_45 (85) av	36874

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2019-08-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.801m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2019-08-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.801m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.0V I:3.296A P:715.6W PF:0.9913 Freq:49.99Hz Lamp Flux:109447x1 lm		
NAME: AOK win	TYPE:LED	WEIGHT:8.5KG
SPEC.:AOK-720WiNS-NV-L5-00-5070-30D-P	DIM.: $\phi$ 550*200mm	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 530mm	Shielding Angle:

Table--1

UNIT:  $\times 100\text{cd}$ 

C (DEG) $\gamma$ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877
5	2708	2727	2729	2750	2754	2772	2776	2772	2754	2750	2729	2727	2708	2693	2686	2660	2655	2637	2649
10	2208	2244	2253	2290	2294	2327	2333	2327	2294	2290	2253	2244	2208	2174	2159	2111	2098	2067	2086
15	1511	1553	1569	1612	1618	1649	1652	1649	1618	1612	1569	1553	1511	1475	1462	1416	1398	1364	1378
20	925	958	971	1006	1008	1031	1039	1031	1008	1006	971	958	925	894	887	850	835	811	823
25	516	540	544	566	568	586	584	586	568	566	544	540	516	491	484	461	455	439	447
30	261	279	276	288	289	300	299	300	289	288	276	279	261	246	245	226	224	215	219
35	127	134	136	141	142	147	148	147	142	141	136	134	127	118	116	112	109	106	107
40	72.6	74.9	75.4	78.0	77.8	80.0	80.4	80.0	77.8	78.0	75.4	74.9	72.6	69.4	68.8	66.8	66.1	64.7	65.8
45	48.8	49.5	49.9	51.5	51.1	51.8	52.4	51.8	51.1	51.5	49.9	49.5	48.8	47.3	47.6	47.0	46.3	45.4	46.4
50	37.5	37.5	38.1	39.2	38.7	38.6	39.1	38.6	38.7	39.2	38.1	37.5	37.5	36.8	37.5	37.7	36.9	36.1	36.7
55	32.2	32.0	32.7	33.7	33.1	32.7	33.1	32.7	33.1	33.7	32.7	32.0	32.2	31.7	32.6	32.9	32.1	31.2	31.8
60	28.3	27.8	28.3	29.5	28.8	28.4	29.0	28.4	28.8	29.5	28.3	27.8	28.3	27.4	28.3	28.7	27.7	27.0	28.0
65	24.1	23.5	23.8	25.1	24.2	23.9	24.8	23.9	24.2	25.1	23.8	23.5	24.1	23.1	23.9	24.5	23.4	22.9	24.0
70	19.8	19.2	19.3	20.5	19.8	19.8	20.7	19.8	19.8	20.5	19.3	19.2	19.8	18.9	19.3	19.6	18.8	18.6	19.7
75	15.2	14.8	14.7	15.4	15.1	15.4	16.2	15.4	15.1	15.4	14.7	14.8	15.2	14.4	14.4	14.4	14.1	14.0	15.0
80	9.19	9.24	9.31	9.75	9.63	9.97	10.4	9.97	9.63	9.75	9.31	9.24	9.19	8.81	8.95	8.73	8.55	8.21	8.68
85	3.17	3.43	3.46	3.70	3.74	4.04	4.16	4.04	3.74	3.70	3.46	3.43	3.17	3.02	3.13	2.73	2.72	2.47	2.77
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2019-08-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.801m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.0V I:3.296A P:715.6W PF:0.9913 Freq:49.99Hz Lamp Flux:109447x1 lm		
NAME: AOK win	TYPE:LED	WEIGHT:8.5KG
SPEC.:AOK-720WiNS-NV-L5-00-5070-30D-P	DIM.: $\phi$ 550*200mm	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 530mm	Shielding Angle:

Table--2

UNIT:  $\times 100\text{cd}$ 

$\gamma$ (DEG) \ C (DEG)	285	300	315	330	345														
0	2877	2877	2877	2877	2877														
5	2637	2655	2660	2686	2693														
10	2067	2098	2111	2159	2174														
15	1364	1398	1416	1462	1475														
20	811	835	850	887	894														
25	439	455	461	484	491														
30	215	224	226	245	246														
35	106	109	112	116	118														
40	64.7	66.1	66.8	68.8	69.4														
45	45.4	46.3	47.0	47.6	47.3														
50	36.1	36.9	37.7	37.5	36.8														
55	31.2	32.1	32.9	32.6	31.7														
60	27.0	27.7	28.7	28.3	27.4														
65	22.9	23.4	24.5	23.9	23.1														
70	18.6	18.8	19.6	19.3	18.9														
75	14.0	14.1	14.4	14.4	14.4														
80	8.21	8.55	8.73	8.95	8.81														
85	2.47	2.72	2.73	3.13	3.02														
90	0.00	0.00	0.00	0.00	0.00														
95	0.00	0.00	0.00	0.00	0.00														
100	0.00	0.00	0.00	0.00	0.00														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.00	0.00	0.00	0.00	0.00														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.00	0.00	0.00	0.00														
175	0.00	0.00	0.00	0.00	0.00														
180	0.00	0.00	0.00	0.00	0.00														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-08-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.801m [K=1.0000]  
 Remarks: