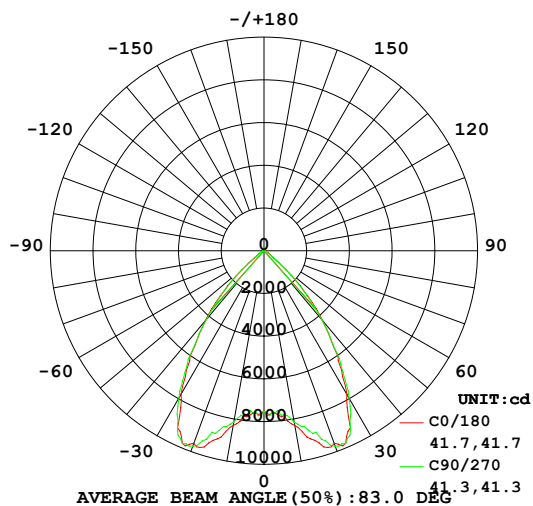


## LUMINAIRE PHOTOMETRIC TEST REPORT

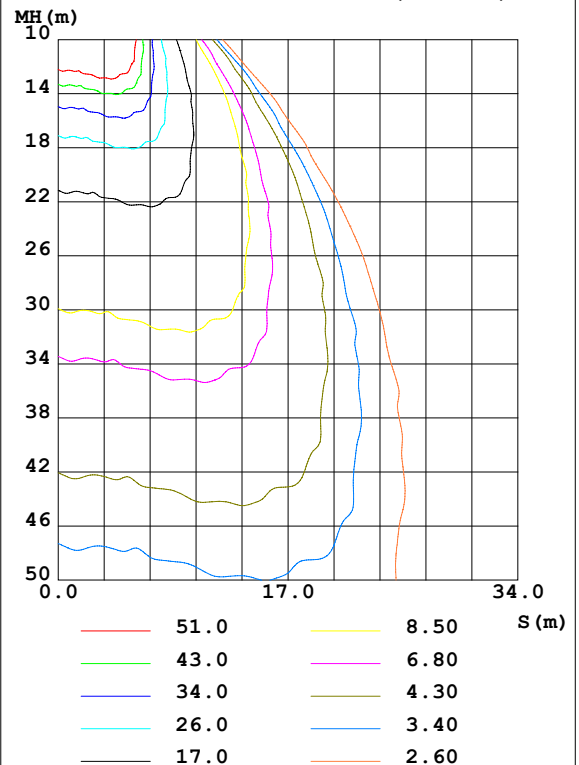
Test:U:220.0V I:0.4730A P:100.1W PF:0.9853 Freq:49.99Hz Lamp Flux:13956.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100Woh-5050-90D-PC-ALL	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 139.42 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	9856	S/MH (C0/180)	1.20
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.19
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	13956	$\eta$ UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	13956.4	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.15

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-01-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.633m [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	8308	8311	8144	8311	8308	8311	8144	8311	0- 10	750.8	750.8	5.38, 5.38
20	9593	9535	9746	9535	9593	9535	9746	9535	10- 20	2582	3333	23.9, 23.9
30	7762	7796	7956	7796	7762	7796	7956	7796	20- 30	4207	7540	54, 54
40	4276	4103	4194	4103	4276	4103	4194	4103	30- 40	3691	11232	80.5, 80.5
50	1144	1097	1193	1097	1144	1097	1193	1097	40- 50	1973	13205	94.6, 94.6
60	247.4	243.6	248.1	243.6	247.4	243.6	248.1	243.6	50- 60	444.1	13649	97.8, 97.8
70	113.2	113.1	114.7	113.1	113.2	113.1	114.7	113.1	60- 70	165.6	13814	99, 99
80	62.80	62.58	66.03	62.58	62.80	62.58	66.03	62.58	70- 80	89.67	13904	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	52.42	13956	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	13956	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	13956	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	13956	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	13956	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	13956	100, 100
150	0	0	0	0	0	0	0	0	140-150	0	13956	100, 100
160	0	0	0	0	0	0	0	0	150-160	0	13956	100, 100
170	0	0	0	0	0	0	0	0	160-170	0	13956	100, 100
180	0	0	0	0	0	0	0	0	170-180	0	13956	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 12470 lm

%lum = 89.4%

%lamp = 89.4%

Conical surface Flux(120deg): 13649 lm

%lum = 97.8%

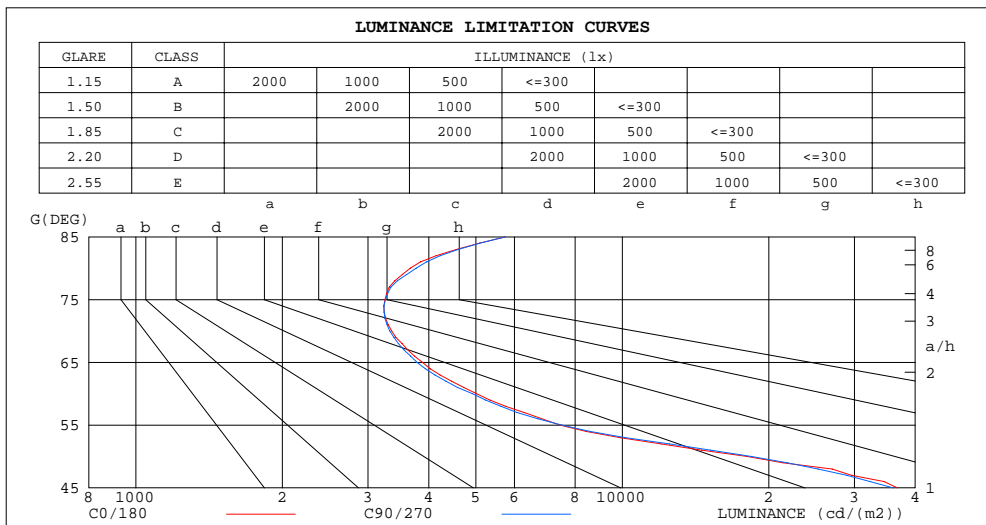
%lamp = 97.8%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-01-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.633m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:220.0V I:0.4730A P:100.1W PF:0.9853 Freq:49.99Hz Lamp Flux:13956.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100Woh-5050-90D-PC-ALL	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5750	5752
80	3665	3769
75	3250	3258
70	3355	3325
65	3880	3783
60	5014	4918
55	7438	7497
50	18032	18395
45	36785	36075

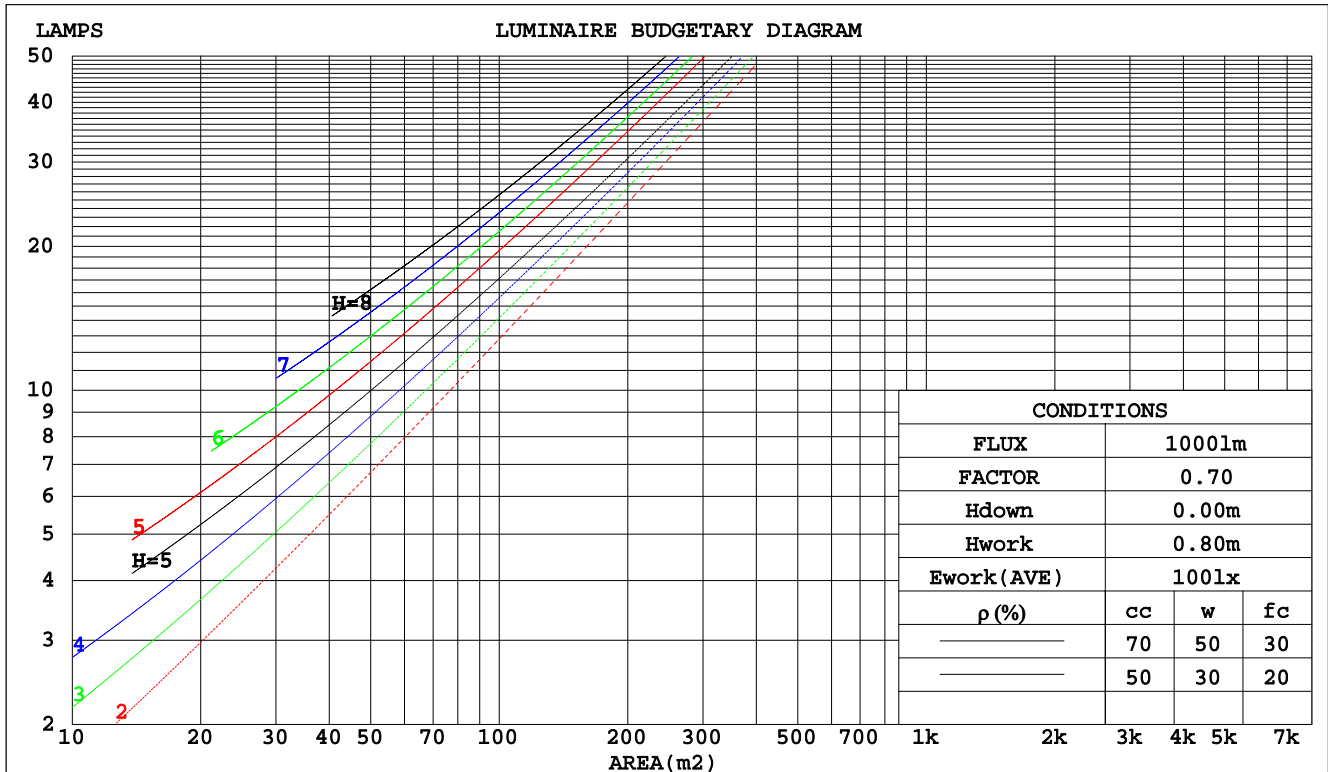
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.0V I:0.4730A P:100.1W PF:0.9853 Freq:49.99Hz Lamp Flux:13956.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100Woh-5050-90D-PC-ALL	DIM.: $\phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{M}$	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	1.09	1.06	1.04	1.07	1.05	1.02	1.03	1.01	.99	.99	.98	.96	.96	.94	.93	.91
2.0	1.00	.95	.92	.98	.94	.91	.95	.92	.88	.92	.89	.87	.89	.87	.85	.83
3.0	.92	.86	.82	.90	.85	.81	.88	.83	.80	.85	.81	.78	.83	.80	.77	.75
4.0	.85	.78	.73	.83	.77	.73	.81	.76	.72	.79	.75	.71	.77	.73	.70	.68
5.0	.78	.71	.66	.77	.71	.66	.75	.69	.65	.73	.68	.65	.72	.67	.64	.62
6.0	.72	.65	.60	.71	.65	.60	.70	.64	.59	.68	.63	.59	.67	.62	.59	.57
7.0	.67	.60	.55	.66	.59	.55	.65	.59	.54	.63	.58	.54	.62	.57	.54	.52
8.0	.62	.55	.50	.61	.55	.50	.60	.54	.50	.59	.54	.50	.58	.53	.49	.48
9.0	.58	.51	.46	.57	.51	.46	.56	.50	.46	.55	.50	.46	.54	.49	.46	.44
10.0	.54	.47	.43	.53	.47	.43	.52	.47	.43	.52	.46	.42	.51	.46	.42	.41



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-01-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.633m [K=1.0000]  
 Remarks:

## WEC AND CCEC

Test:U:220.0V I:0.4730A P:100.1W PF:0.9853 Freq:49.99Hz Lamp Flux:13956.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-5050-90D-PC-ALL	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	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	.206	.117	.037	.199	.114	.036	.187	.107	.034	.175	.101	.032	.164	.095	.031		
2.0	.199	.109	.033	.193	.106	.033	.182	.101	.031	.172	.096	.030	.163	.092	.029		
3.0	.190	.101	.030	.185	.099	.030	.175	.095	.029	.167	.091	.028	.158	.088	.027		
4.0	.181	.094	.028	.176	.092	.027	.168	.089	.027	.160	.086	.026	.153	.083	.025		
5.0	.172	.088	.025	.168	.086	.025	.161	.084	.025	.154	.081	.024	.148	.079	.024		
6.0	.164	.082	.023	.160	.081	.023	.154	.079	.023	.148	.077	.023	.142	.075	.022		
7.0	.156	.077	.022	.153	.076	.022	.147	.075	.021	.142	.073	.021	.137	.071	.021		
8.0	.149	.073	.020	.146	.072	.020	.141	.070	.020	.136	.069	.020	.132	.068	.020		
9.0	.142	.069	.019	.140	.068	.019	.135	.067	.019	.131	.066	.019	.127	.064	.019		
10.0	.136	.065	.018	.134	.065	.018	.130	.064	.018	.126	.062	.018	.122	.061	.018		

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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.160	.132	.109	.137	.114	.094	.094	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.149	.114	.086	.128	.098	.074	.088	.068	.052	.051	.040	.031	.016	.013	.010	
4.0	.140	.099	.069	.120	.086	.060	.083	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.132	.088	.056	.114	.076	.049	.078	.053	.034	.045	.031	.020	.015	.010	.007	
6.0	.125	.079	.046	.108	.069	.040	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.119	.072	.039	.103	.062	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.114	.066	.033	.098	.057	.029	.068	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.109	.061	.029	.094	.053	.025	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.104	.057	.025	.090	.049	.022	.062	.035	.016	.036	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:220.0V I:0.4730A P:100.1W PF:0.9853 Freq:49.99Hz Lamp Flux:13956.4x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:2.9KG		
SPEC.:AOK-100WoH-5050-90D-PC-ALL					DIM.: $\phi$ 0.248*0.138M			SERIAL No.:1		
MFR.: AOK					SUR.: $\phi$ 0.16M			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	11.9	13.1	12.2	13.2	13.4	11.8	12.9	12.1	13.1	13.3
3H	11.8	12.9	12.1	13.1	13.3	11.7	12.7	12.0	12.9	13.2
4H	11.8	12.7	12.1	13.0	13.2	11.7	12.6	11.9	12.9	13.1
6H	11.7	12.6	12.0	12.9	13.1	11.6	12.5	11.9	12.8	13.0
8H	11.7	12.6	12.0	12.9	13.1	11.6	12.5	11.9	12.7	13.0
12H	11.7	12.5	12.0	12.8	13.1	11.6	12.4	11.9	12.7	13.0
4H 2H	11.7	12.7	12.0	12.9	13.1	11.6	12.6	11.9	12.8	13.0
3H	11.6	12.5	12.0	12.7	13.0	11.5	12.3	11.8	12.6	12.9
4H	11.6	12.4	12.0	12.7	13.0	11.5	12.2	11.8	12.5	12.9
6H	11.6	12.3	12.0	12.6	12.9	11.5	12.1	11.9	12.5	12.8
8H	11.6	12.2	12.0	12.6	12.9	11.5	12.1	11.9	12.5	12.8
12H	11.6	12.2	12.1	12.6	13.0	11.5	12.1	11.9	12.5	12.8
8H 4H	11.5	12.1	11.9	12.5	12.8	11.4	12.0	11.8	12.3	12.7
6H	11.5	12.0	12.0	12.4	12.8	11.4	11.9	11.8	12.3	12.7
8H	11.6	12.0	12.0	12.4	12.9	11.5	11.9	11.9	12.3	12.8
12H	11.7	12.0	12.1	12.5	13.0	11.5	11.9	12.0	12.4	12.8
12H 4H	11.5	12.0	11.9	12.4	12.8	11.3	11.9	11.8	12.3	12.7
6H	11.5	11.9	12.0	12.4	12.8	11.4	11.8	11.8	12.3	12.7
8H	11.6	11.9	12.0	12.4	12.9	11.5	11.8	11.9	12.3	12.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 5.6					+ 2.2 / - 5.6				
1.5H	+ 3.4 / - 5.8					+ 3.3 / - 5.8				
2.0H	+ 5.6 / - 4.1					+ 5.6 / - 4.1				

CIE Pub.117, 13956 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 9.2$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:220.0V I:0.4730A P:100.1W PF:0.9853 Freq:49.99Hz Lamp Flux:13956.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-5050-90D-PC-ALL	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

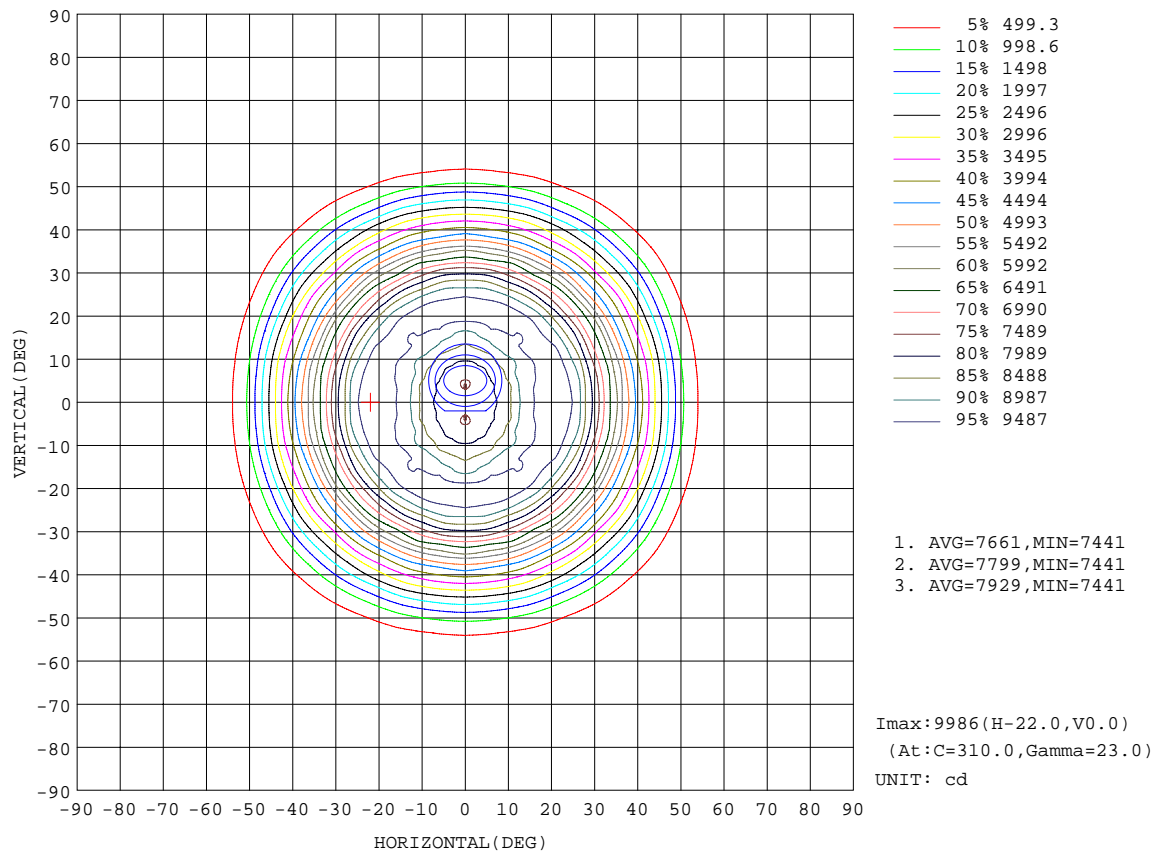
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	79	71	67	79	71	67	78	71	67	62
0.80	88	81	76	87	80	76	86	80	75	71
1.00	94	87	83	93	87	82	91	87	82	77
1.25	99	93	88	98	92	88	96	91	87	82
1.50	102	96	92	101	96	92	99	94	91	86
2.00	106	101	97	104	100	96	102	98	95	89
2.50	108	103	100	106	102	99	103	100	97	91
3.00	110	106	103	108	104	102	105	102	99	93
4.00	112	109	106	110	107	105	106	104	102	95
5.00	114	111	108	111	109	107	107	105	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:220.0V I:0.4730A P:100.1W PF:0.9853 Freq:49.99Hz Lamp Flux:13956.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-5050-90D-PC-ALL	DIM.: $\phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{M}$	Shielding Angle:



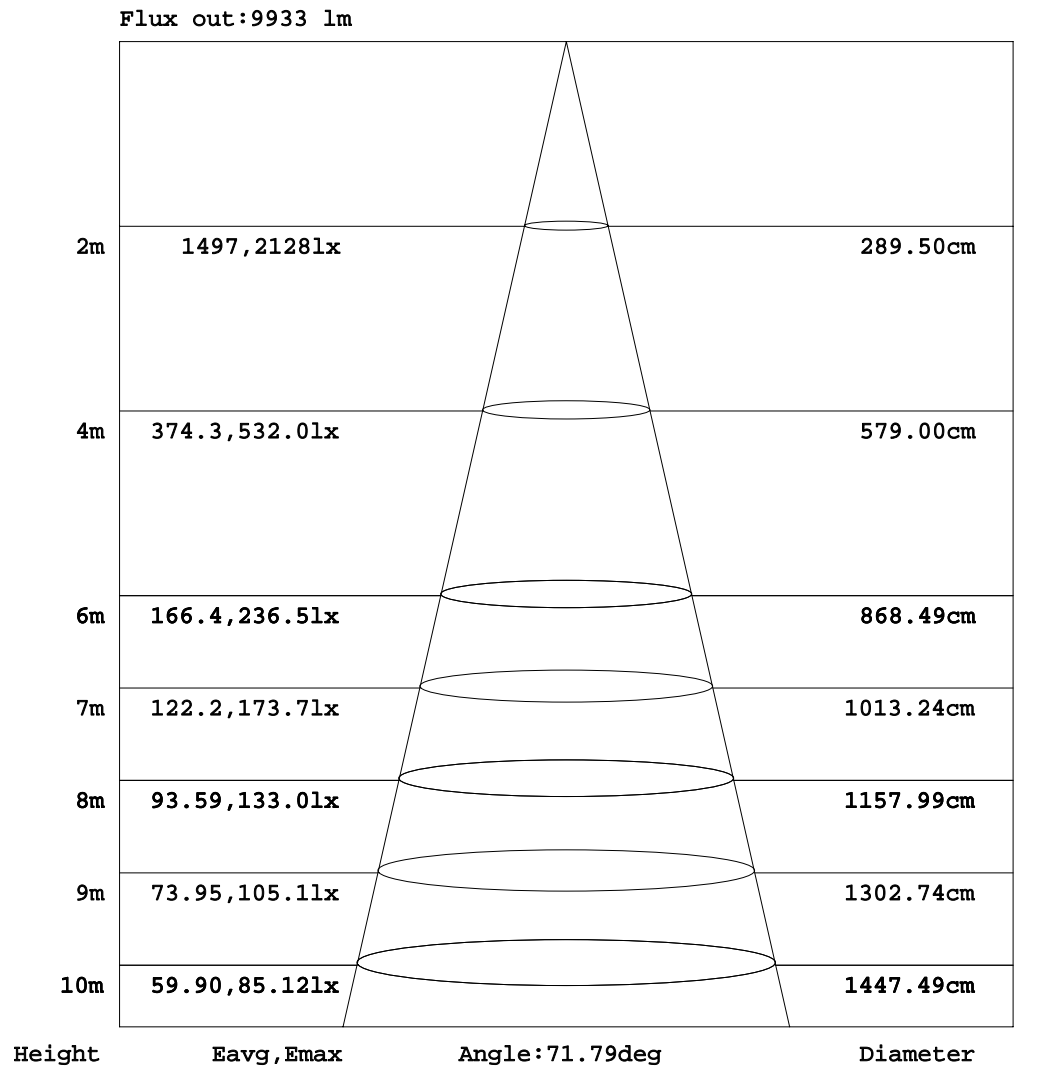
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:220.0V I:0.4730A P:100.1W PF:0.9853 Freq:49.99Hz Lamp Flux:13956.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-5050-90D-PC-ALL	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:



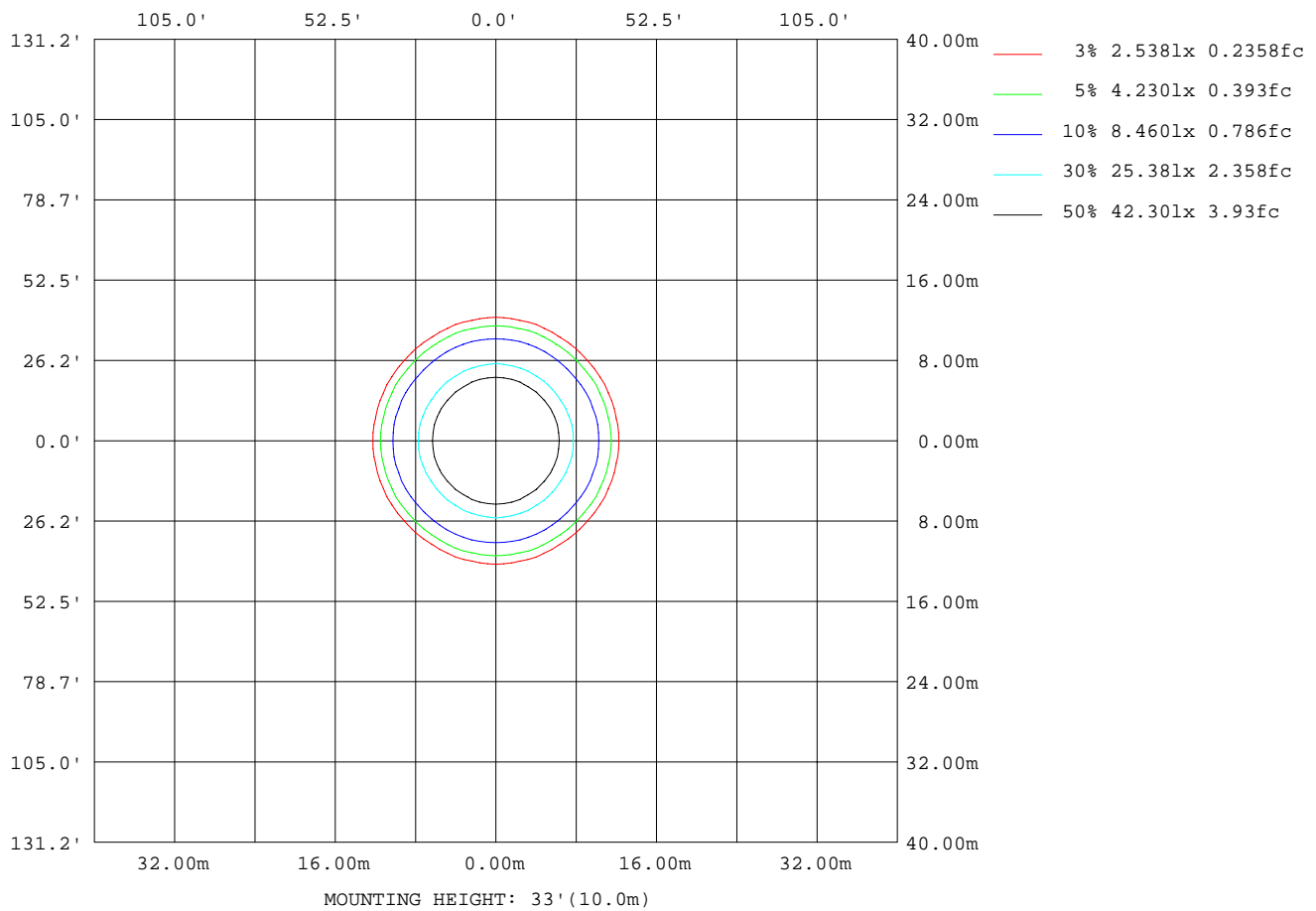
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

### ISOLUX DIAGRAM

Test:U:220.0V I:0.4730A P:100.1W PF:0.9853 Freq:49.99Hz Lamp Flux:13956.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100Woh-5050-90D-PC-ALL	DIM.: $\Phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\Phi$ 0.16M	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:220.0V I:0.4730A P:100.1W PF:0.9853 Freq:49.99Hz Lamp Flux:13956.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-5050-90D-PC-ALL	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

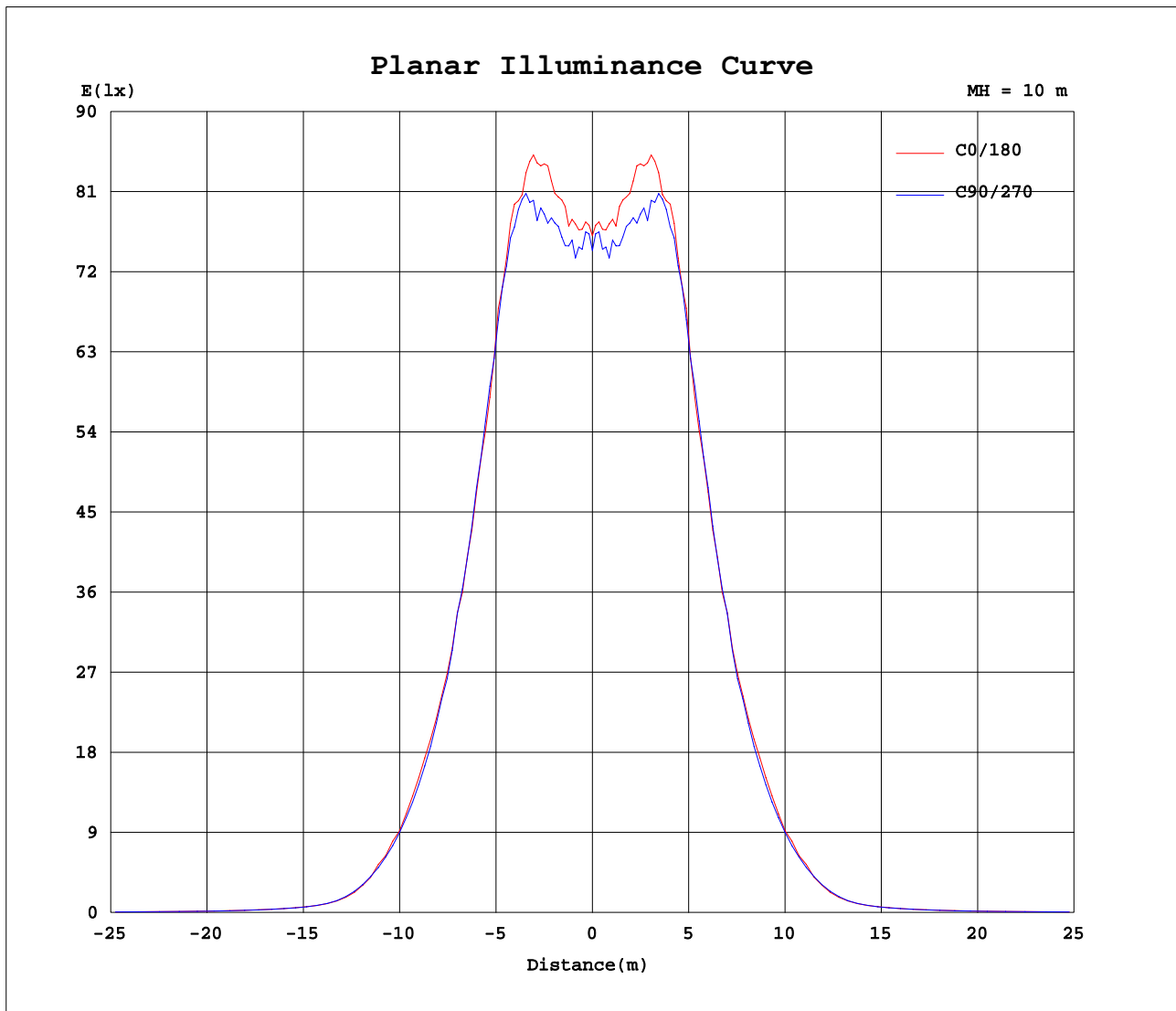
AvgL	cd/m2
L_0~180 (65) av	3829
L_0~180 (75) av	3207
L_0~180 (85) av	5674
L_90~270 (65) av	3817
L_90~270 (75) av	3287
L_90~270 (85) av	5802
L_45 (65) av	3787
L_45 (75) av	3194
L_45 (85) av	5619

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-01-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.633m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.4730A P:100.1W PF:0.9853 Freq:49.99Hz Lamp Flux:13956.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-5050-90D-PC-ALL	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505
5	7724	7712	7598	7640	7704	7663	7619	7591	7522	7506	7522	7591	7619	7663	7704	7640	7598	7712	7724
10	8308	8307	8232	8262	8226	8395	8346	8171	8116	8144	8116	8171	8346	8395	8226	8262	8232	8307	8308
15	9186	9150	9210	9109	8996	9145	9185	8974	8972	8862	8972	8974	9185	9145	8996	9109	9210	9150	9186
20	9593	9638	9613	9650	9588	9483	9627	9736	9642	9746	9642	9736	9627	9483	9588	9650	9613	9638	9593
25	9321	9313	9319	9362	9144	9299	9289	9408	9334	9524	9334	9408	9289	9299	9144	9362	9319	9313	9321
30	7762	7774	7679	7833	7776	7816	7819	7895	7991	7956	7991	7895	7819	7816	7776	7833	7679	7774	7762
35	6052	5982	6055	6054	5867	5959	5927	6032	5971	6168	5971	6032	5927	5959	5867	6054	6055	5982	6052
40	4276	4217	4203	4157	4114	4092	4024	4153	4157	4194	4157	4153	4024	4092	4114	4157	4203	4217	4276
45	2567	2703	2547	2595	2459	2469	2561	2626	2565	2573	2565	2626	2561	2469	2459	2595	2547	2703	2567
50	1144	1156	1120	1138	1091	1104	1105	1176	1178	1193	1178	1176	1105	1104	1091	1138	1120	1156	1144
55	421	426	409	412	397	400	402	419	417	434	417	419	402	400	397	412	409	426	421
60	247	253	245	250	244	244	238	249	244	248	244	249	238	244	244	250	245	253	247
65	162	164	162	163	161	159	159	161	163	161	163	161	159	159	161	163	162	164	162
70	113	115	113	114	113	113	112	114	115	115	115	114	112	113	113	114	113	115	113
75	83.0	83.9	82.7	83.0	82.5	82.8	82.1	83.6	83.9	85.1	83.9	83.6	82.1	82.8	82.5	83.0	82.7	83.9	83.0
80	62.8	63.4	62.6	63.0	62.5	62.7	62.5	64.0	64.6	66.0	64.6	64.0	62.5	62.7	62.5	63.0	62.6	63.4	62.8
85	49.5	50.4	49.6	49.8	49.0	49.0	48.3	49.3	49.3	50.6	49.3	49.3	48.3	49.0	49.0	49.8	49.6	50.4	49.5
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: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.4730A P:100.1W PF:0.9853 Freq:49.99Hz Lamp Flux:13956.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-5050-90D-PC-ALL	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505	7505		
5	7712	7598	7640	7704	7663	7619	7591	7522	7506	7522	7591	7619	7663	7704	7640	7598	7712		
10	8307	8232	8262	8226	8395	8346	8171	8116	8144	8116	8171	8346	8395	8226	8262	8232	8307		
15	9150	9210	9109	8996	9145	9185	8974	8972	8862	8972	8974	9185	9145	8996	9109	9210	9150		
20	9638	9613	9650	9588	9483	9627	9736	9642	9746	9642	9736	9627	9483	9588	9650	9613	9638		
25	9313	9319	9362	9144	9299	9289	9408	9334	9524	9334	9408	9289	9299	9144	9362	9319	9313		
30	7774	7679	7833	7776	7816	7819	7895	7991	7956	7991	7895	7819	7816	7776	7833	7679	7774		
35	5982	6055	6054	5867	5959	5927	6032	5971	6168	5971	6032	5927	5959	5867	6054	6055	5982		
40	4217	4203	4157	4114	4092	4024	4153	4157	4194	4157	4153	4024	4092	4114	4157	4203	4217		
45	2703	2547	2595	2459	2469	2561	2626	2565	2573	2565	2626	2561	2469	2459	2595	2547	2703		
50	1156	1120	1138	1091	1104	1105	1176	1178	1193	1178	1176	1105	1104	1091	1138	1120	1156		
55	426	409	412	397	400	402	419	417	434	417	419	402	400	397	412	409	426		
60	253	245	250	244	244	238	249	244	248	244	249	238	244	244	250	245	253		
65	164	162	163	161	159	159	161	163	161	163	161	159	159	161	163	162	164		
70	115	113	114	113	113	112	114	115	115	115	114	112	113	113	114	113	115		
75	83.9	82.7	83.0	82.5	82.8	82.1	83.6	83.9	85.1	83.9	83.6	82.1	82.8	82.5	83.0	82.7	83.9		
80	63.4	62.6	63.0	62.5	62.7	62.5	64.0	64.6	66.0	64.6	64.0	62.5	62.7	62.5	63.0	62.6	63.4		
85	50.4	49.6	49.8	49.0	49.0	48.3	49.3	49.3	50.6	49.3	49.3	48.3	49.0	49.0	49.8	49.6	50.4		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.633m [K=1.0000]  
 Remarks: