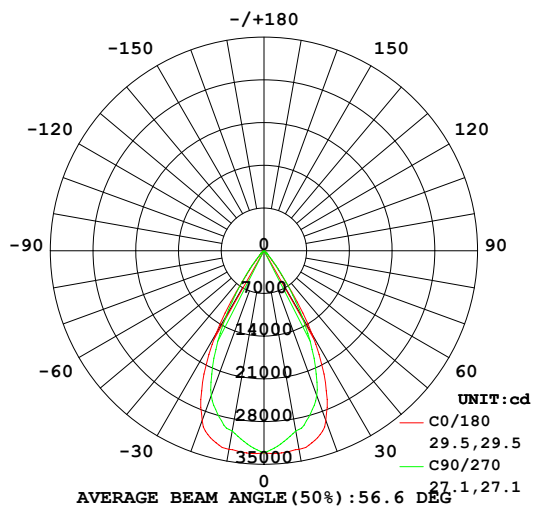


## LUMINAIRE PHOTOMETRIC TEST REPORT

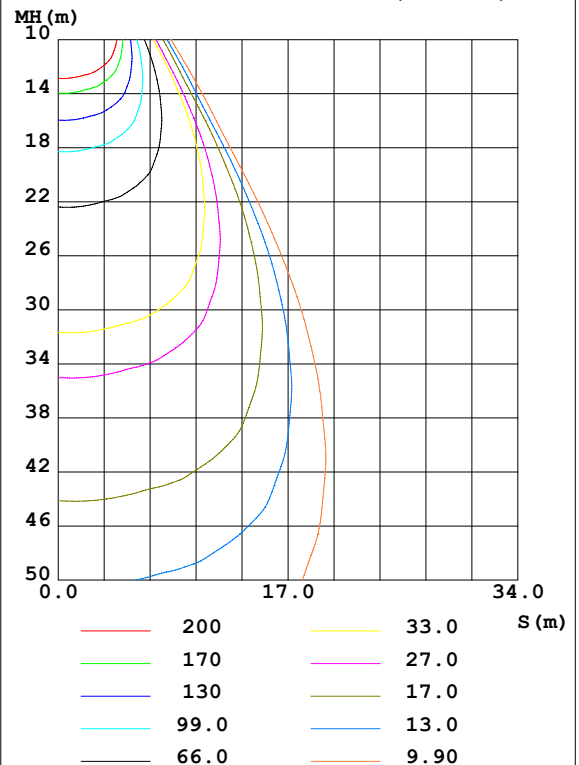
Test:U:220.2V I:0.9679A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:26675.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi .29M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.59 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	33275	S/MH (C0/180)	0.86
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	0.82
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	26675	$\eta$ UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	26675.1	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	0.85

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:2017-12-29

$\gamma$  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	3306	3143	2999	3143	3306	3143	2999	3143	0- 10	3058	3058	11.5,11.5
20	2962	2679	2523	2679	2962	2679	2523	2679	10- 20	8355	11413	42.8,42.8
30	1577	1365	1259	1365	1577	1365	1259	1365	20- 30	9450	20863	78.2,78.2
40	206.7	227.3	243.8	227.3	206.7	227.3	243.8	227.3	30- 40	4261	25124	94.2,94.2
50	60.67	61.65	64.35	61.65	60.67	61.65	64.35	61.65	40- 50	813.1	25937	97.2,97.2
60	24.32	26.65	28.26	26.65	24.32	26.65	28.26	26.65	50- 60	386.4	26323	98.7,98.7
70	14.38	15.56	15.62	15.56	14.38	15.56	15.62	15.56	60- 70	194.7	26518	99.4,99.4
80	6.521	7.071	7.237	7.071	6.521	7.071	7.237	7.071	70- 80	118.6	26637	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	38.49	26675	100,100
100	0	0	0	0	0	0	0	0	90-100	0	26675	100,100
110	0	0	0	0	0	0	0	0	100-110	0	26675	100,100
120	0	0	0	0	0	0	0	0	110-120	0	26675	100,100
130	0	0	0	0	0	0	0	0	120-130	0	26675	100,100
140	0	0	0	0	0	0	0	0	130-140	0	26675	100,100
150	0	0	0	0	0	0	0	0	140-150	0	26675	100,100
160	0	0	0	0	0	0	0	0	150-160	0	26675	100,100
170	0	0	0	0	0	0	0	0	160-170	0	26675	100,100
180	0	0	0	0	0	0	0	0	170-180	0	26675	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 25638 lm

%lum = 96.1%

%lamp = 96.1%

Conical surface Flux(120deg): 26323 lm

%lum = 98.7%

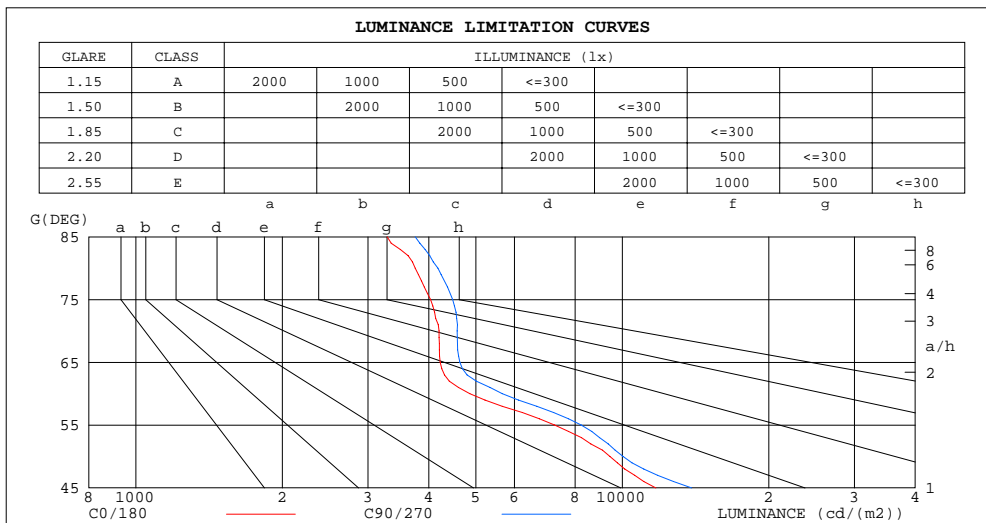
%lamp = 98.7%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9679A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:26675.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi .29M$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3287	3753
80	3752	4177
75	4035	4479
70	4201	4576
65	4223	4636
60	4859	5666
55	7257	8232
50	9428	10034
45	11717	13885

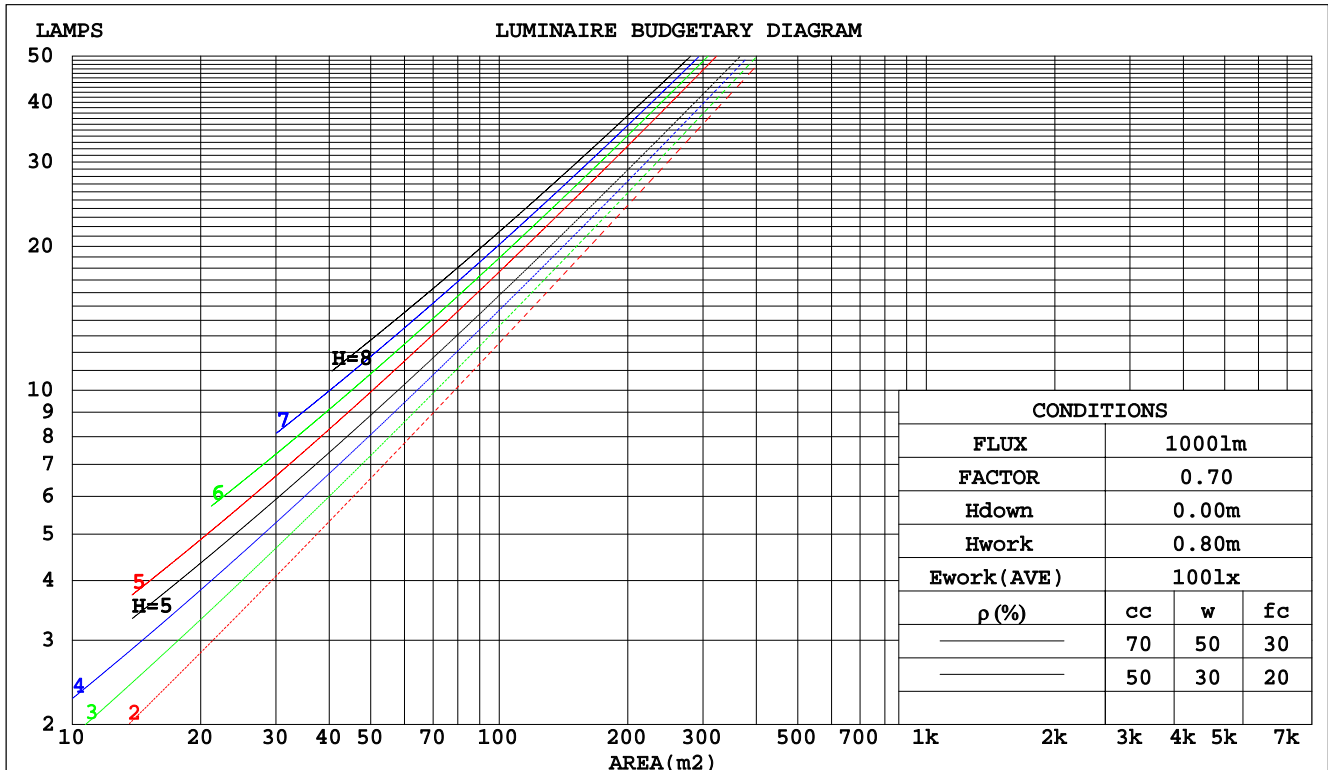
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9679A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:26675.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi .29M$	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	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	1.06	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.96	.95	.94
2.0	1.03	.99	.96	1.02	.98	.95	.98	.96	.93	.95	.93	.91	.93	.91	.89	.87
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82
4.0	.91	.85	.81	.90	.85	.81	.87	.83	.80	.85	.82	.79	.84	.81	.78	.77
5.0	.85	.80	.76	.84	.79	.75	.83	.78	.75	.81	.77	.74	.79	.76	.73	.72
6.0	.80	.75	.70	.80	.74	.70	.78	.73	.70	.77	.73	.69	.75	.72	.69	.67
7.0	.76	.70	.66	.75	.70	.66	.74	.69	.66	.73	.68	.65	.72	.68	.65	.63
8.0	.72	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.61	.68	.64	.61	.60
9.0	.68	.62	.59	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.57
10.0	.65	.59	.55	.64	.59	.55	.63	.58	.55	.63	.58	.55	.62	.58	.55	.54



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9679A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:26675.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D-PC	DIM.: $\phi$ 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ .29M	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	.176	.100	.032	.169	.097	.031	.157	.090	.029	.145	.084	.027	.135	.078	.025		
2.0	.167	.092	.028	.162	.089	.027	.151	.084	.026	.141	.079	.025	.132	.075	.024		
3.0	.159	.084	.025	.154	.082	.025	.145	.079	.024	.137	.075	.023	.129	.071	.022		
4.0	.151	.078	.023	.147	.077	.023	.139	.074	.022	.132	.071	.021	.125	.068	.021		
5.0	.143	.073	.021	.140	.072	.021	.133	.069	.020	.127	.067	.020	.121	.065	.019		
6.0	.137	.068	.020	.134	.067	.019	.128	.065	.019	.122	.063	.019	.117	.062	.018		
7.0	.131	.065	.018	.128	.064	.018	.122	.062	.018	.118	.060	.018	.113	.059	.017		
8.0	.125	.061	.017	.122	.060	.017	.118	.059	.017	.113	.057	.017	.109	.056	.016		
9.0	.120	.058	.016	.117	.057	.016	.113	.056	.016	.109	.055	.016	.106	.054	.016		
10.0	.115	.055	.015	.113	.055	.015	.109	.053	.015	.106	.052	.015	.102	.051	.015		

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	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.036	.089	.055	.032	.062	.039	.023	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9679A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:26675.1x1 lm											
NAME: AOK oH					TYPE:LED			WEIGHT:6.0KG			
SPEC.:AOK-200WoH-3030-60D-PC					DIM.: $\phi$ 0.4*0.141M			SERIAL No.:1			
MFR.: AOK					SUR.: $\phi$ .29M			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		6.9	7.8	7.1	8.0	8.1	6.4	7.3	6.6	7.5	7.7
	3H	6.8	7.7	7.1	7.9	8.1	6.4	7.3	6.7	7.5	7.7
	4H	6.8	7.6	7.1	7.9	8.1	6.4	7.2	6.7	7.5	7.7
	6H	6.8	7.6	7.1	7.8	8.1	6.4	7.2	6.7	7.4	7.7
	8H	6.8	7.5	7.1	7.8	8.0	6.4	7.2	6.7	7.4	7.7
	12H	6.8	7.5	7.1	7.7	8.0	6.4	7.1	6.7	7.4	7.7
4H	2H	6.7	7.5	7.0	7.7	8.0	6.2	7.0	6.5	7.3	7.5
	3H	6.7	7.4	7.0	7.7	8.0	6.3	7.0	6.6	7.3	7.6
	4H	6.8	7.4	7.1	7.7	8.0	6.4	7.0	6.7	7.3	7.6
	6H	6.8	7.3	7.2	7.7	8.0	6.5	7.0	6.8	7.3	7.7
	8H	6.8	7.3	7.2	7.6	8.0	6.5	7.0	6.9	7.3	7.7
	12H	6.8	7.2	7.2	7.6	8.0	6.5	6.9	6.9	7.3	7.7
8H	4H	6.7	7.2	7.1	7.6	7.9	6.3	6.8	6.7	7.2	7.6
	6H	6.8	7.2	7.2	7.6	8.0	6.5	6.9	6.9	7.3	7.7
	8H	6.8	7.2	7.2	7.6	8.0	6.5	6.9	6.9	7.3	7.7
	12H	6.8	7.1	7.3	7.5	8.0	6.5	6.9	7.0	7.3	7.8
12H	4H	6.6	7.1	7.1	7.5	7.9	6.3	6.8	6.7	7.1	7.5
	6H	6.7	7.1	7.2	7.5	8.0	6.4	6.8	6.9	7.2	7.7
	8H	6.8	7.1	7.2	7.5	8.0	6.5	6.8	7.0	7.3	7.7
Variations with the observer position at spacings:											
S = 1.0H	+ 2.7 / - 3.0					+ 2.8 / - 3.1					
1.5H	+ 4.7 / - 2.3					+ 4.8 / - 2.6					
2.0H	+ 1.4 / - 1.3					+ 1.8 / - 1.2					

CIE Pub.117, 26675 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 11.4$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9679A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:26675.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi .29M$	Shielding Angle:

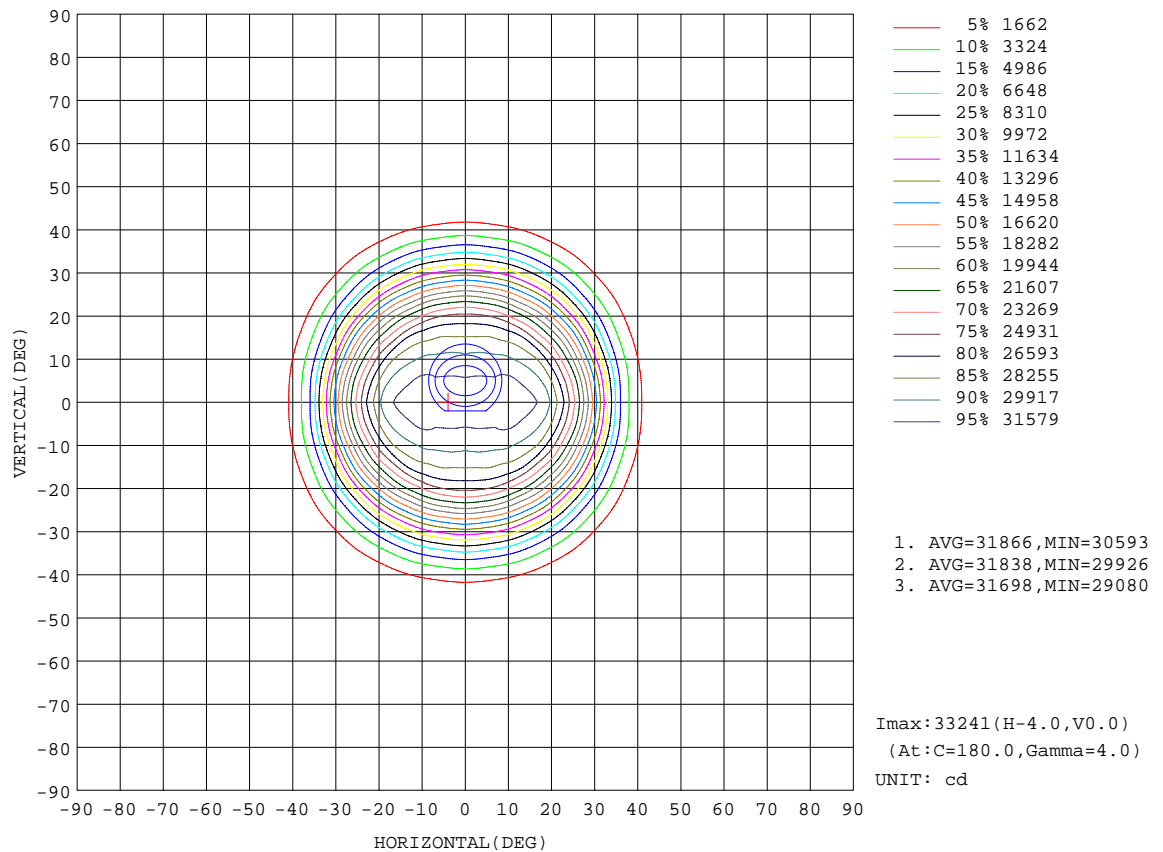
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	88	82	78	87	82	78	87	81	78	74
0.80	95	89	86	95	89	86	93	89	85	82
1.00	100	94	90	99	94	90	97	93	90	86
1.25	103	98	95	102	98	94	100	97	94	90
1.50	106	101	98	105	101	98	103	99	97	92
2.00	109	105	101	107	103	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	108	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
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:2017-12-29

$\gamma$  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:220.2V I:0.9679A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:26675.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi .29M$	Shielding Angle:



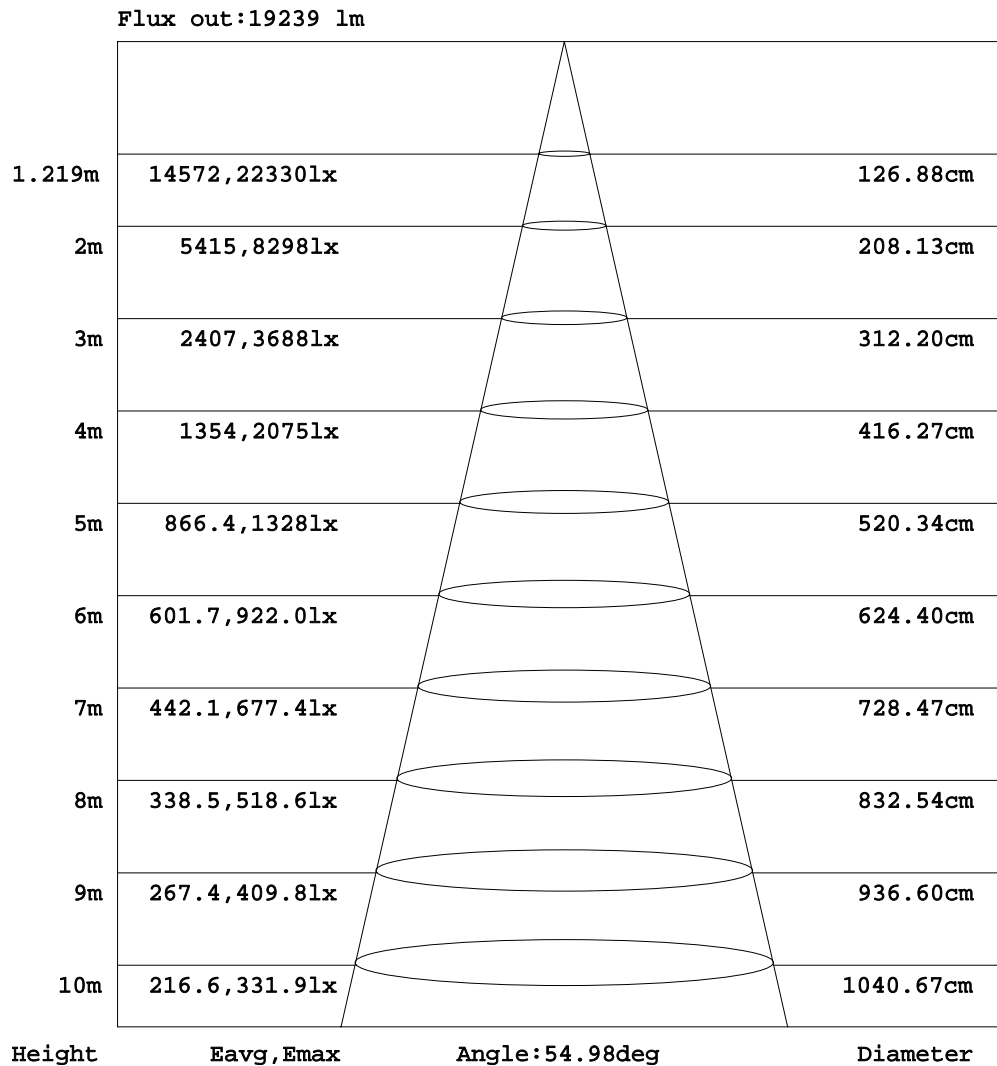
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9679A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:26675.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi .29M$	Shielding Angle:



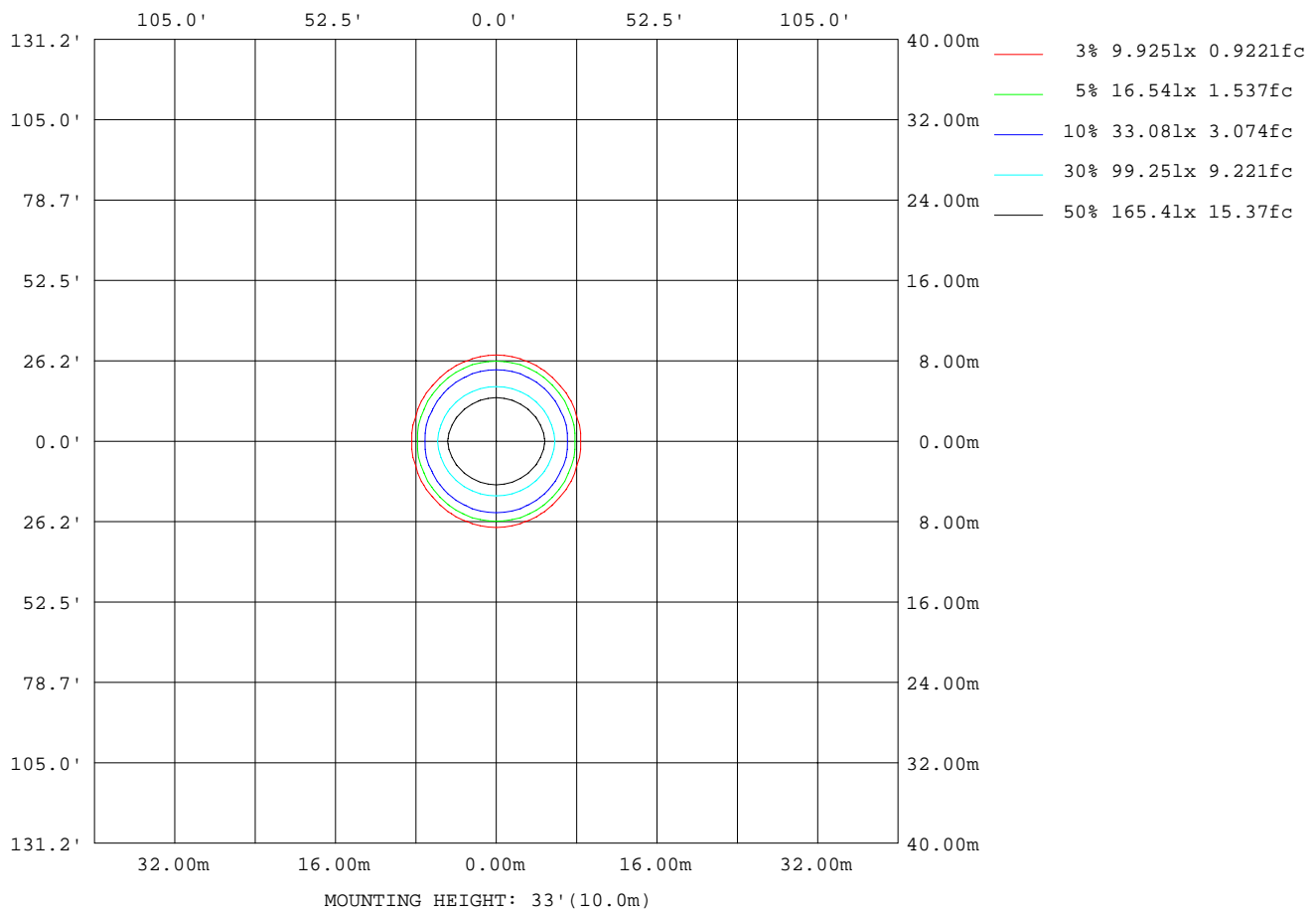
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9679A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:26675.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi .29M$	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9679A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:26675.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D-PC	DIM.: $\phi$ 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ .29M	Shielding Angle:

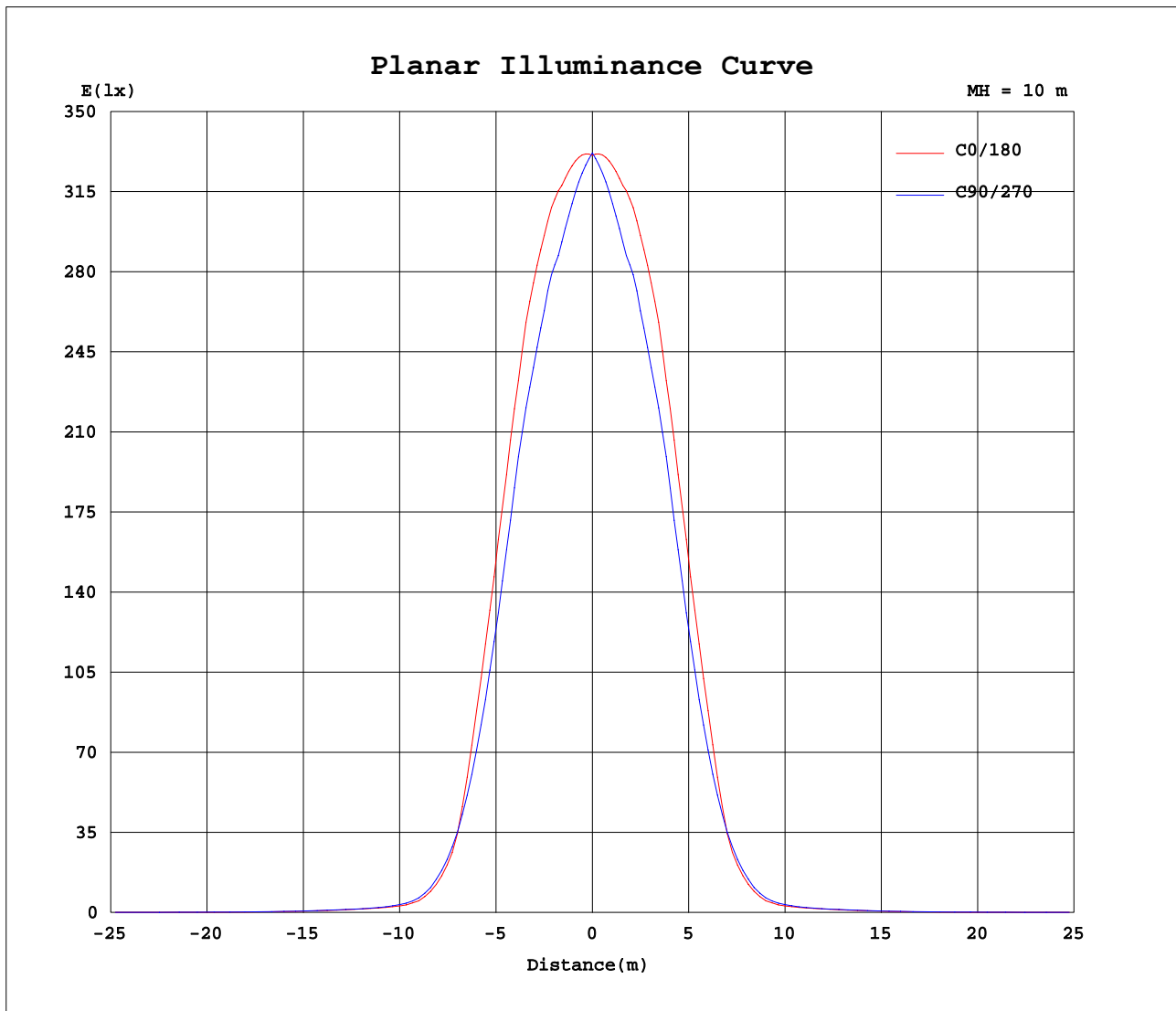
AvgL	cd/m2
L_0~180 (65) av	4228
L_0~180 (75) av	4039
L_0~180 (85) av	3290
L_90~270 (65) av	4626
L_90~270 (75) av	4469
L_90~270 (85) av	3744
L_45 (65) av	4573
L_45 (75) av	4417
L_45 (85) av	3607

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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: 2017-12-29

$\gamma$  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:220.2V I:0.9679A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:26675.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi .29M$	Shielding Angle:

Table--1

UNIT:  $\times 10cd$ 

C (DEG) $\gamma$ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312
5	3325	3306	3285	3266	3246	3228	3213	3199	3186	3177	3186	3199	3213	3228	3246	3266	3285	3306	3325
10	3306	3251	3214	3186	3157	3128	3099	3063	3031	2999	3031	3063	3099	3128	3157	3186	3214	3251	3306
15	3218	3159	3100	3047	2997	2955	2896	2871	2841	2828	2841	2871	2896	2955	2997	3047	3100	3159	3218
20	2962	2912	2833	2777	2707	2650	2596	2554	2540	2523	2540	2554	2596	2650	2707	2777	2833	2912	2962
25	2383	2329	2238	2178	2096	2043	1979	1967	1938	1943	1938	1967	1979	2043	2096	2178	2238	2329	2383
30	1577	1534	1462	1437	1381	1350	1302	1284	1257	1259	1257	1284	1302	1350	1381	1437	1462	1534	1577
35	628	648	628	639	621	638	632	642	622	637	622	642	632	638	621	639	628	648	628
40	207	218	214	224	223	232	232	242	237	244	237	242	232	232	223	224	214	218	207
45	82.9	83.3	83.5	86.8	88.6	92.0	93.2	96.0	96.2	98.0	96.2	96.0	93.2	92.0	88.6	86.8	83.5	83.3	82.9
50	60.7	61.1	60.3	60.7	61.0	62.3	62.8	64.0	64.0	64.4	64.0	64.0	62.8	62.3	61.0	60.7	60.3	61.1	60.7
55	41.7	42.9	42.4	42.7	41.7	42.4	42.9	44.3	45.4	47.1	45.4	44.3	42.9	42.4	41.7	42.7	42.4	42.9	41.7
60	24.3	25.4	25.2	26.3	26.3	27.0	26.9	27.8	27.7	28.3	27.7	27.8	26.9	27.0	26.3	26.3	25.2	25.4	24.3
65	17.9	18.1	18.4	18.9	19.2	19.5	19.8	19.8	19.8	19.5	19.8	19.8	19.8	19.5	19.2	18.9	18.4	18.1	17.9
70	14.4	14.5	14.8	15.2	15.4	15.7	15.9	15.9	15.9	15.6	15.9	15.9	15.9	15.7	15.4	15.2	14.8	14.5	14.4
75	10.5	10.6	10.7	11.1	11.3	11.6	11.7	11.8	11.7	11.6	11.7	11.8	11.7	11.6	11.3	11.1	10.7	10.6	10.5
80	6.52	6.61	6.63	6.90	6.96	7.18	7.30	7.41	7.29	7.24	7.29	7.41	7.30	7.18	6.96	6.90	6.63	6.61	6.52
85	2.87	2.96	2.96	3.11	3.08	3.21	3.26	3.36	3.24	3.26	3.24	3.36	3.26	3.21	3.08	3.11	2.96	2.96	2.87
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: 2017-12-29

$\gamma$  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:220.2V I:0.9679A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:26675.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi .29M$	Shielding Angle:

Table--2

UNIT:  $\times 10cd$ 

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312	3312		
5	3306	3285	3266	3246	3228	3213	3199	3186	3177	3186	3199	3213	3228	3246	3266	3285	3306		
10	3251	3214	3186	3157	3128	3099	3063	3031	2999	3031	3063	3099	3128	3157	3186	3214	3251		
15	3159	3100	3047	2997	2955	2896	2871	2841	2828	2841	2871	2896	2955	2997	3047	3100	3159		
20	2912	2833	2777	2707	2650	2596	2554	2540	2523	2540	2554	2596	2650	2707	2777	2833	2912		
25	2329	2238	2178	2096	2043	1979	1967	1938	1943	1938	1967	1979	2043	2096	2178	2238	2329		
30	1534	1462	1437	1381	1350	1302	1284	1257	1259	1257	1284	1302	1350	1381	1437	1462	1534		
35	648	628	639	621	638	632	642	622	637	622	642	632	638	621	639	628	648		
40	218	214	224	223	232	232	242	237	244	237	242	232	232	223	224	214	218		
45	83.3	83.5	86.8	88.6	92.0	93.2	96.0	96.2	98.0	96.2	96.0	93.2	92.0	88.6	86.8	83.5	83.3		
50	61.1	60.3	60.7	61.0	62.3	62.8	64.0	64.0	64.4	64.0	64.0	62.8	62.3	61.0	60.7	60.3	61.1		
55	42.9	42.4	42.7	41.7	42.4	42.9	44.3	45.4	47.1	45.4	44.3	42.9	42.4	41.7	42.7	42.4	42.9		
60	25.4	25.2	26.3	26.3	27.0	26.9	27.8	27.7	28.3	27.7	27.8	26.9	27.0	26.3	26.3	25.2	25.4		
65	18.1	18.4	18.9	19.2	19.5	19.8	19.8	19.8	19.5	19.8	19.8	19.8	19.5	19.2	18.9	18.4	18.1		
70	14.5	14.8	15.2	15.4	15.7	15.9	15.9	15.9	15.6	15.9	15.9	15.9	15.7	15.4	15.2	14.8	14.5		
75	10.6	10.7	11.1	11.3	11.6	11.7	11.8	11.7	11.6	11.7	11.8	11.7	11.6	11.3	11.1	10.7	10.6		
80	6.61	6.63	6.90	6.96	7.18	7.30	7.41	7.29	7.24	7.29	7.41	7.30	7.18	6.96	6.90	6.63	6.61		
85	2.96	2.96	3.11	3.08	3.21	3.26	3.36	3.24	3.26	3.24	3.36	3.26	3.21	3.08	3.11	2.96	2.96		
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:2017-12-29

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: