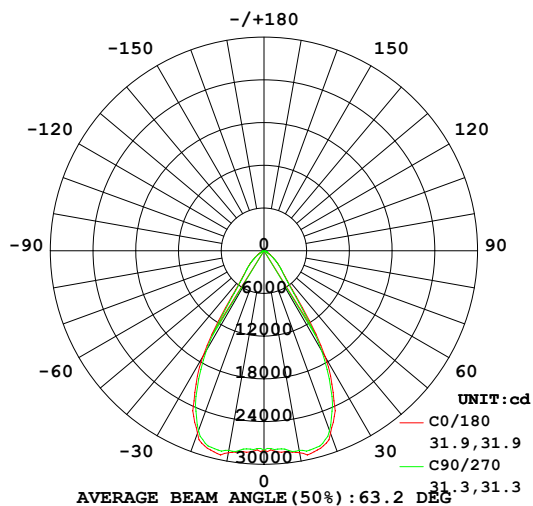


## LUMINAIRE PHOTOMETRIC TEST REPORT

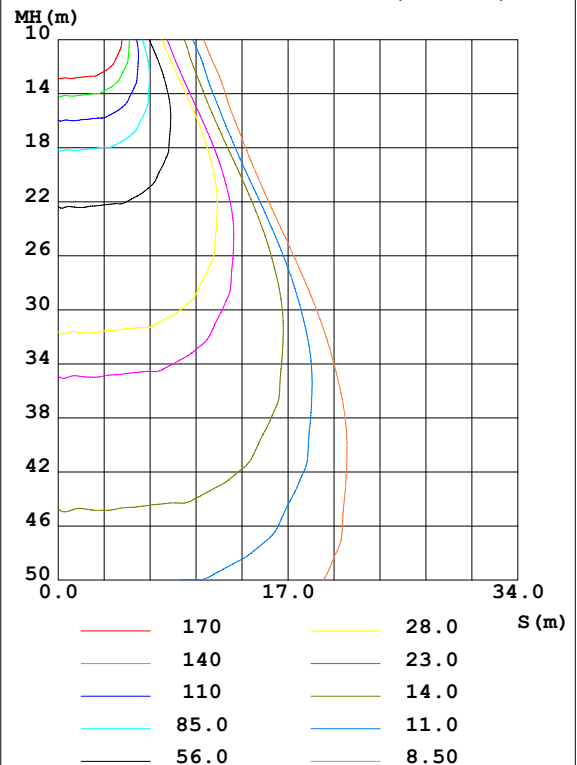
Test:U:220.0V I:0.9664A P:200.1W PF:0.9734 Freq:49.99Hz Lamp Flux:30729.1x1 lm					
NAME: AOK-oH		TYPE:LED		WEIGHT:6.0KG	
SPEC.:AOK-200Woh-5050-60D-PC-ALL		DIM.: $\phi 0.4 \times 0.141M$		SERIAL No.:1	
MFR.: AOK		SUR.: $\phi 0.29M$		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 153.57 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	29583	S/MH (C0/180)	0.92
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	0.90
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	30729	$\eta$ UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	30729.1	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	0.90

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	2881	2894	2846	2894	2881	2894	2846	2894	0- 10	2720	2720	8.85,8.85
20	2733	2722	2690	2722	2733	2722	2690	2722	10- 20	8123	10843	35.3,35.3
30	1720	1653	1620	1653	1720	1653	1620	1653	20- 30	10312	21155	68.8,68.8
40	436.8	434.1	429.7	434.1	436.8	434.1	429.7	434.1	30- 40	5329	26484	86.2,86.2
50	206.7	205.5	202.4	205.5	206.7	205.5	202.4	205.5	40- 50	2363	28847	93.9,93.9
60	70.92	67.72	61.73	67.72	70.92	67.72	61.73	67.72	50- 60	1102	29949	97.5,97.5
70	32.88	32.39	30.94	32.39	32.88	32.39	30.94	32.39	60- 70	454.4	30403	98.9,98.9
80	15.15	13.86	13.24	13.86	15.15	13.86	13.24	13.86	70- 80	240.0	30643	99.7,99.7
90	0	0	0	0	0	0	0	0	80- 90	86.17	30729	100,100
100	0	0	0	0	0	0	0	0	90-100	0	30729	100,100
110	0	0	0	0	0	0	0	0	100-110	0	30729	100,100
120	0	0	0	0	0	0	0	0	110-120	0	30729	100,100
130	0	0	0	0	0	0	0	0	120-130	0	30729	100,100
140	0	0	0	0	0	0	0	0	130-140	0	30729	100,100
150	0	0	0	0	0	0	0	0	140-150	0	30729	100,100
160	0	0	0	0	0	0	0	0	150-160	0	30729	100,100
170	0	0	0	0	0	0	0	0	160-170	0	30729	100,100
180	0	0	0	0	0	0	0	0	170-180	0	30729	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 27827 lm

%lum = 90.6%

%lamp = 90.6%

Conical surface Flux(120deg): 29949 lm

%lum = 97.5%

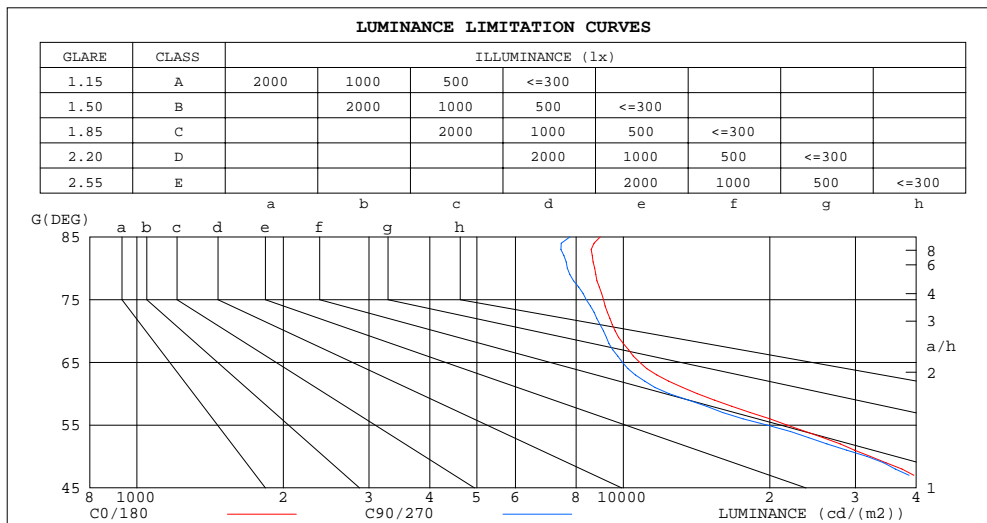
%lamp = 97.5%

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:0.9664A P:200.1W PF:0.9734 Freq:49.99Hz Lamp Flux:30729.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-5050-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	8969	7773
80	8731	7671
75	9101	8391
70	9619	9101
65	10804	9958
60	14195	12419
55	21693	19736
50	32186	31681
45	43246	44035

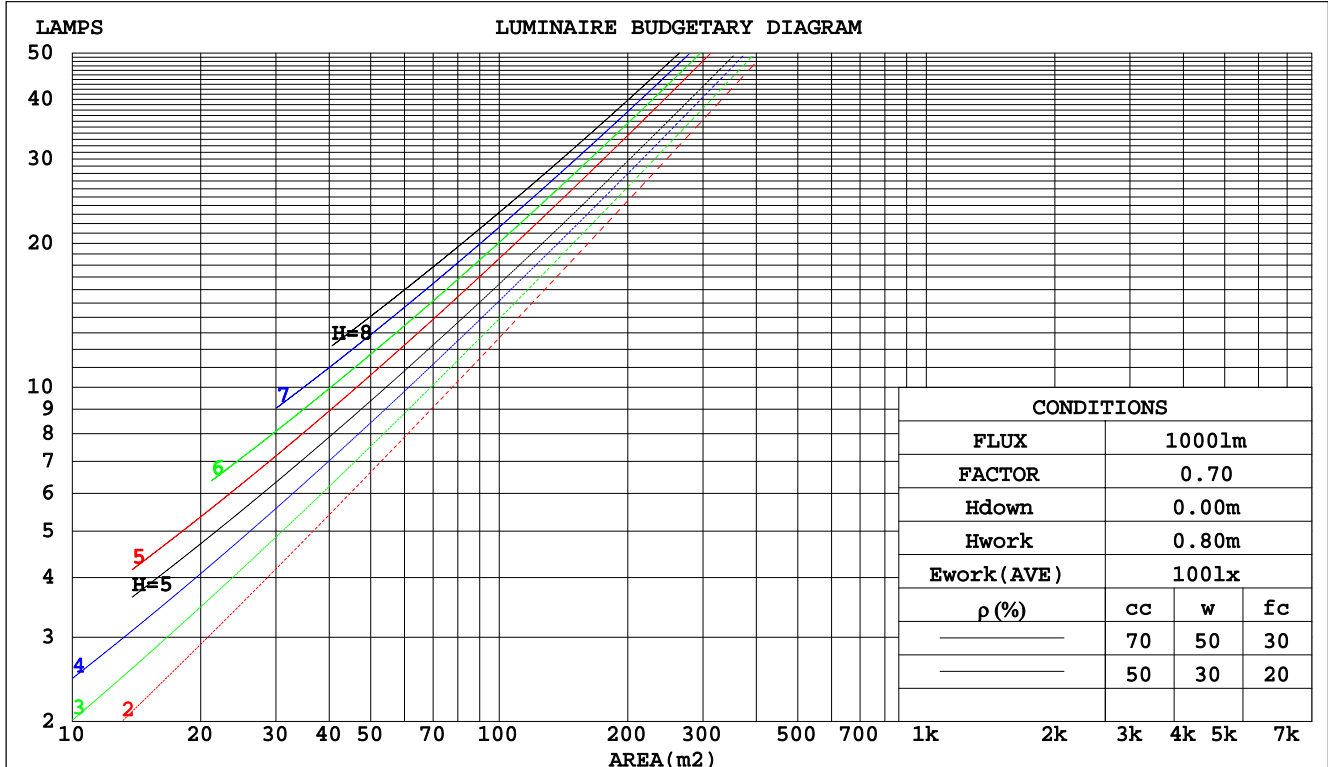
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  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:0.9664A P:200.1W PF:0.9734 Freq:49.99Hz Lamp Flux:30729.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-5050-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	1.00	.00	.98	.97	.97	.95	.94	.92
2.0	1.02	.97	.94	.00	.96	.93	.97	.93	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.88	.84	.81	.85	.83	.80	.78
4.0	.88	.82	.77	.86	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.82	.75	.71	.81	.75	.71	.79	.74	.70	.77	.73	.69	.76	.72	.69	.67
6.0	.76	.70	.66	.76	.70	.65	.74	.69	.65	.73	.68	.64	.71	.67	.64	.62
7.0	.72	.65	.61	.71	.65	.61	.70	.64	.60	.68	.64	.60	.67	.63	.60	.58
8.0	.67	.61	.57	.67	.61	.57	.66	.60	.56	.64	.60	.56	.63	.59	.56	.54
9.0	.63	.57	.53	.63	.57	.53	.62	.56	.53	.61	.56	.53	.60	.56	.52	.51
10.0	.60	.54	.50	.59	.54	.50	.58	.53	.50	.58	.53	.49	.57	.52	.49	.48



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:0.9664A P:200.1W PF:0.9734 Freq:49.99Hz Lamp Flux:30729.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-5050-60D-PC-ALL	DIM.: $\phi$ 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.29M	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	.193	.110	.035	.186	.106	.034	.173	.099	.032	.162	.093	.030	.151	.087	.028	
2.0	.184	.101	.031	.178	.098	.030	.168	.093	.029	.158	.089	.028	.149	.084	.027	
3.0	.175	.093	.028	.170	.091	.027	.161	.087	.026	.152	.083	.026	.144	.080	.025	
4.0	.166	.086	.025	.162	.085	.025	.154	.081	.024	.146	.078	.024	.139	.076	.023	
5.0	.157	.080	.023	.154	.079	.023	.147	.076	.022	.140	.074	.022	.134	.072	.022	
6.0	.150	.075	.021	.146	.074	.021	.140	.072	.021	.134	.070	.021	.129	.068	.020	
7.0	.142	.070	.020	.140	.070	.020	.134	.068	.020	.129	.066	.019	.124	.065	.019	
8.0	.136	.066	.019	.133	.066	.019	.128	.064	.018	.124	.063	.018	.120	.061	.018	
9.0	.130	.063	.018	.128	.062	.017	.123	.061	.017	.119	.060	.017	.115	.059	.017	
10.0	.124	.060	.017	.122	.059	.016	.118	.058	.016	.115	.057	.016	.111	.056	.016	

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	.172	.157	.144	.147	.135	.124	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.136	.099	.071	.117	.086	.061	.080	.060	.043	.047	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.050	.076	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.121	.079	.048	.104	.068	.042	.071	.048	.030	.041	.028	.018	.013	.009	.006	
7.0	.114	.071	.041	.098	.062	.036	.068	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.108	.065	.035	.093	.056	.031	.065	.040	.022	.038	.023	.013	.012	.008	.004	
9.0	.103	.060	.030	.089	.052	.027	.062	.036	.019	.036	.022	.011	.012	.007	.004	
10.0	.099	.055	.027	.085	.048	.023	.059	.034	.017	.034	.020	.010	.011	.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:0.9664A P:200.1W PF:0.9734 Freq:49.99Hz Lamp Flux:30729.1x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:6.0KG		
SPEC.:AOK-200Woh-5050-60D-PC-ALL					DIM.: $\phi 0.4 \times 0.141M$			SERIAL No.:1		
MFR.: AOK					SUR.: $\phi 0.29M$			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	9.3	10.3	9.6	10.5	10.7	8.9	10.0	9.2	10.1	10.3
3H	9.4	10.3	9.7	10.5	10.8	9.0	9.9	9.3	10.1	10.3
4H	9.5	10.3	9.7	10.6	10.8	9.0	9.9	9.3	10.2	10.4
6H	9.5	10.3	9.8	10.6	10.8	9.1	9.9	9.4	10.1	10.4
8H	9.5	10.3	9.8	10.6	10.8	9.1	9.9	9.4	10.1	10.4
12H	9.5	10.3	9.8	10.5	10.8	9.1	9.8	9.4	10.1	10.4
4H 2H	9.2	10.1	9.5	10.3	10.6	8.9	9.7	9.1	10.0	10.2
3H	9.4	10.2	9.7	10.4	10.7	9.0	9.8	9.3	10.1	10.3
4H	9.5	10.2	9.9	10.5	10.8	9.1	9.8	9.5	10.1	10.4
6H	9.6	10.2	10.0	10.6	10.9	9.2	9.8	9.6	10.2	10.5
8H	9.7	10.2	10.1	10.6	11.0	9.2	9.8	9.6	10.2	10.5
12H	9.7	10.2	10.1	10.6	11.0	9.3	9.8	9.7	10.1	10.5
8H 4H	9.5	10.0	9.9	10.4	10.8	9.1	9.7	9.5	10.0	10.4
6H	9.6	10.1	10.1	10.5	10.9	9.3	9.7	9.7	10.1	10.5
8H	9.7	10.1	10.2	10.6	11.0	9.3	9.7	9.8	10.1	10.6
12H	9.8	10.2	10.3	10.6	11.1	9.4	9.7	9.8	10.2	10.6
12H 4H	9.4	10.0	9.9	10.3	10.7	9.1	9.6	9.5	10.0	10.4
6H	9.6	10.0	10.1	10.5	10.9	9.2	9.6	9.7	10.1	10.5
8H	9.7	10.1	10.2	10.5	11.0	9.3	9.7	9.8	10.1	10.6
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 1.9					+ 1.4 / - 2.1				
1.5H	+ 1.9 / - 1.6					+ 1.8 / - 1.8				
2.0H	+ 2.7 / - 2.1					+ 3.0 / - 2.4				

CIE Pub.117, 30729 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 11.9$ )

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:0.9664A P:200.1W PF:0.9734 Freq:49.99Hz Lamp Flux:30729.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-5050-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

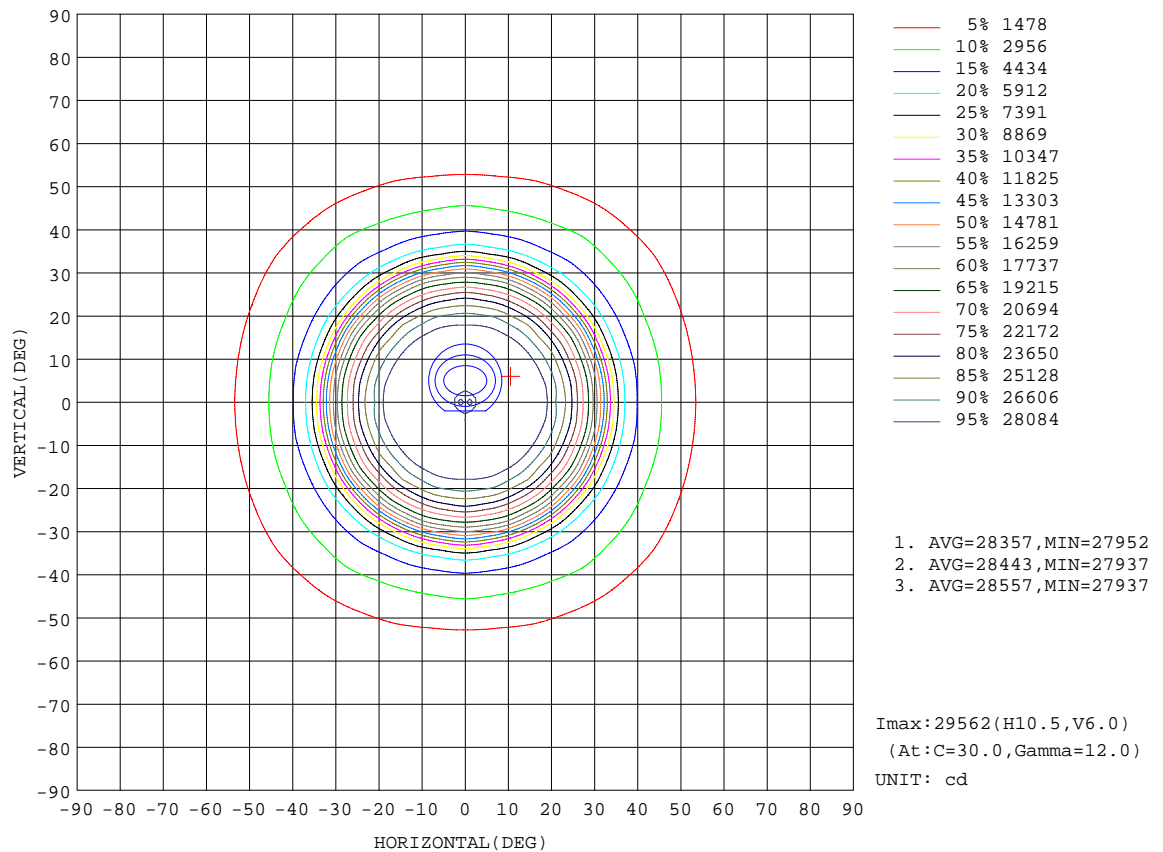
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	71	82	75	71	81	75	71	67
0.80	91	84	80	90	84	80	89	83	79	75
1.00	96	90	86	95	89	85	94	89	85	80
1.25	101	95	91	99	94	90	97	93	90	85
1.50	104	98	94	102	97	94	100	96	93	88
2.00	107	102	99	105	101	98	103	99	96	91
2.50	109	105	101	107	103	100	104	101	98	92
3.00	111	107	104	109	105	103	105	103	100	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	109	112	110	108	108	106	105	97
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:0.9664A P:200.1W PF:0.9734 Freq:49.99Hz Lamp Flux:30729.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-5050-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



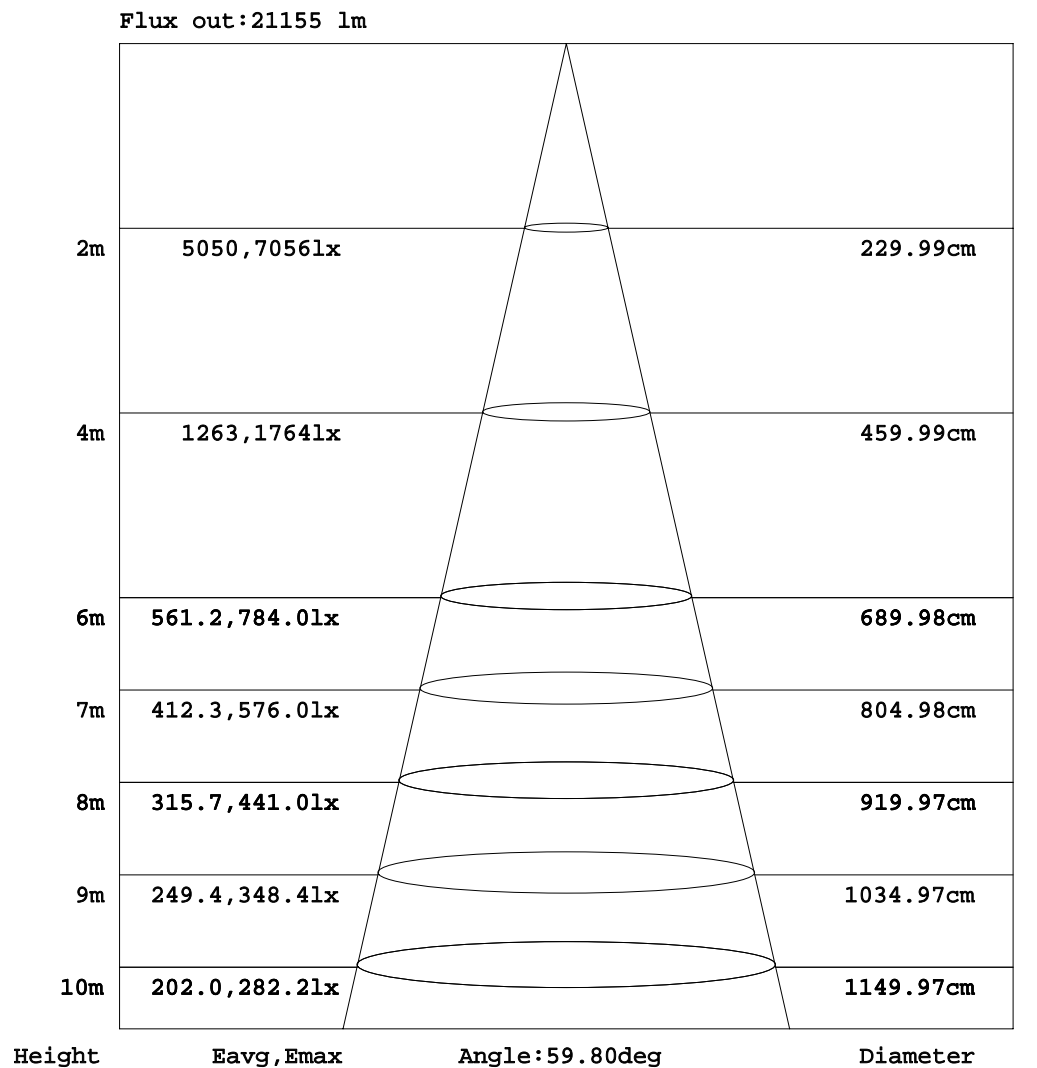
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  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:0.9664A P:200.1W PF:0.9734 Freq:49.99Hz Lamp Flux:30729.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-5050-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



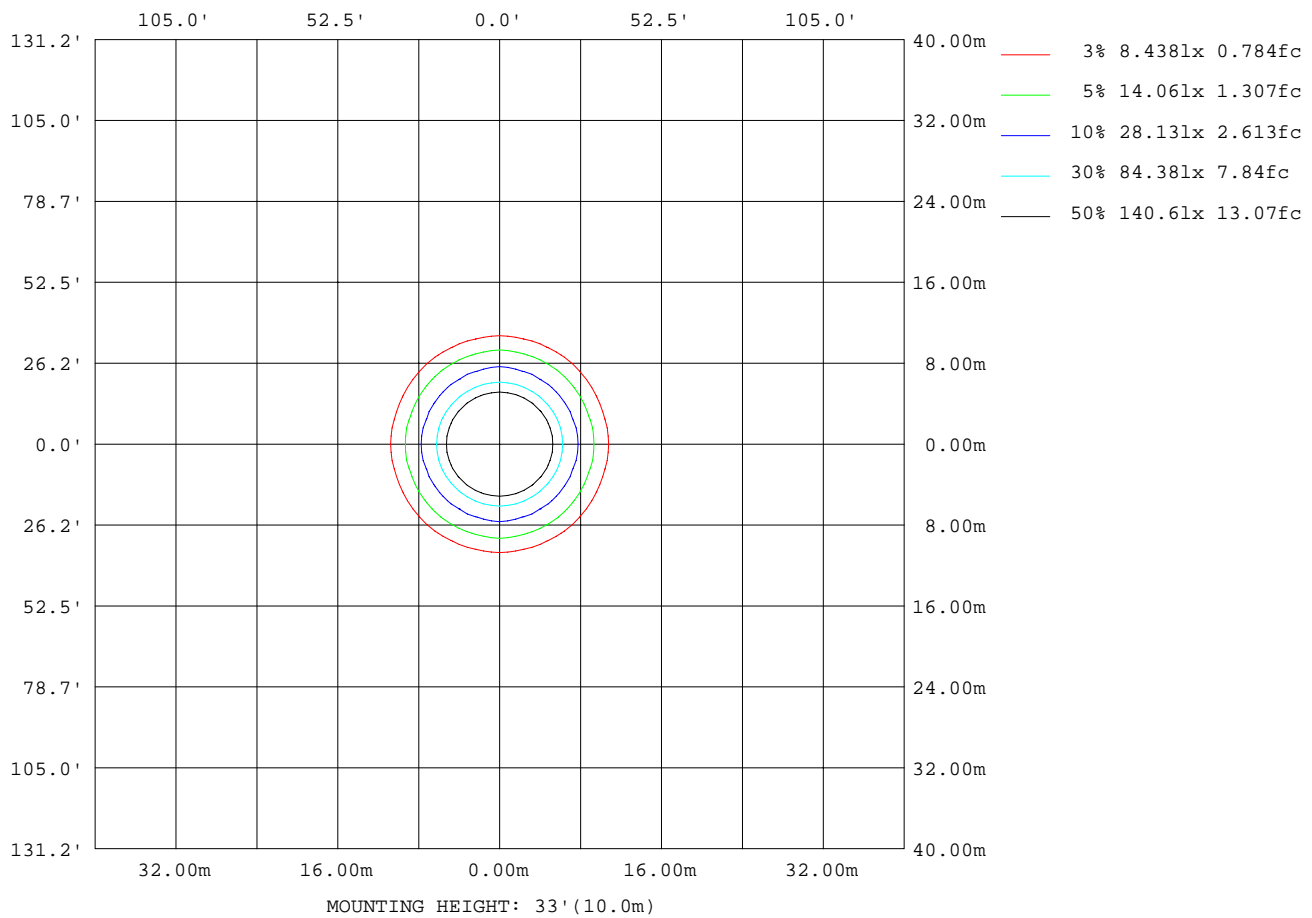
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date: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:0.9664A P:200.1W PF:0.9734 Freq:49.99Hz Lamp Flux:30729.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-5050-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	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:0.9664A P:200.1W PF:0.9734 Freq:49.99Hz Lamp Flux:30729.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-5050-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

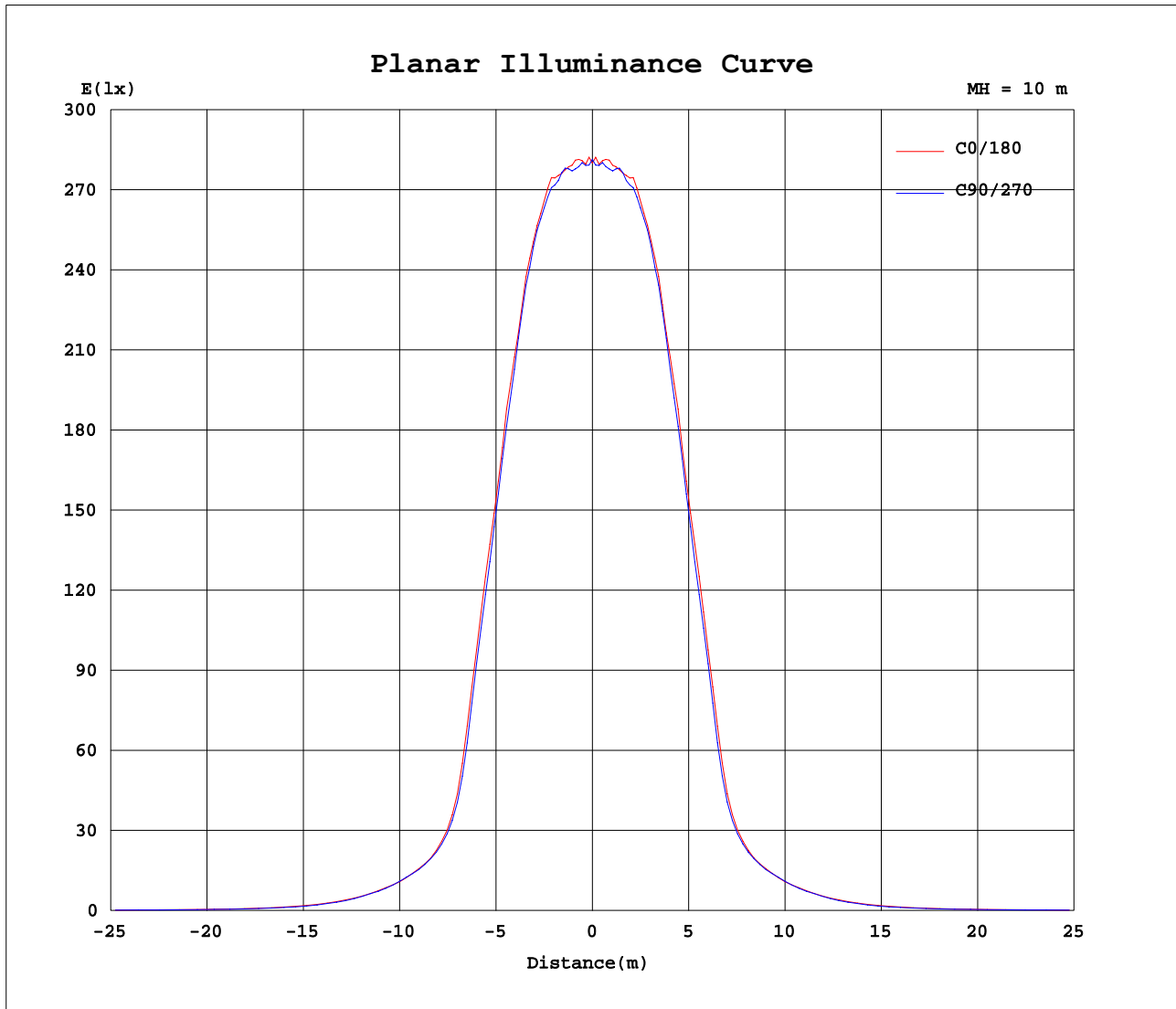
AvgL	cd/m2
L_0~180 (65) av	10796
L_0~180 (75) av	9095
L_0~180 (85) av	8963
L_90~270 (65) av	9899
L_90~270 (75) av	8342
L_90~270 (85) av	7727
L_45 (65) av	10578
L_45 (75) av	8778
L_45 (85) av	7963

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:0.9664A P:200.1W PF:0.9734 Freq:49.99Hz Lamp Flux:30729.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-5050-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Table--1

UNIT:  $\times 10cd$ 

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798
5	2842	2843	2831	2829	2835	2837	2831	2826	2822	2794	2822	2826	2831	2837	2835	2829	2831	2843	2842
10	2881	2891	2894	2892	2899	2889	2889	2874	2874	2846	2874	2874	2889	2889	2899	2892	2894	2891	2881
15	2897	2912	2922	2921	2900	2892	2900	2890	2896	2859	2896	2890	2900	2892	2900	2921	2922	2912	2897
20	2733	2747	2739	2732	2725	2718	2704	2720	2705	2690	2705	2720	2704	2718	2725	2732	2739	2747	2733
25	2328	2347	2316	2308	2293	2290	2268	2271	2251	2261	2251	2271	2268	2290	2293	2308	2316	2347	2328
30	1720	1729	1707	1700	1656	1651	1624	1631	1602	1620	1602	1631	1624	1651	1656	1700	1707	1729	1720
35	795	798	770	766	739	744	715	732	701	733	701	732	715	744	739	766	770	798	795
40	437	443	431	429	432	436	421	425	423	430	423	425	421	436	432	429	431	443	437
45	306	307	301	306	305	314	302	299	299	310	299	299	302	314	305	306	301	307	306
50	207	211	203	204	207	204	199	202	199	202	199	202	199	204	207	204	203	211	207
55	124	122	120	121	118	117	117	118	113	113	113	118	117	117	118	121	120	122	124
60	70.9	70.7	69.5	68.7	68.1	67.4	65.4	65.5	62.1	61.7	62.1	65.5	65.4	67.4	68.1	68.7	69.5	70.7	70.9
65	45.6	46.5	46.1	46.2	44.8	44.6	42.8	42.2	41.5	41.8	41.5	42.2	42.8	44.6	44.8	46.2	46.1	46.5	45.6
70	32.9	33.4	33.2	32.8	32.5	32.2	31.3	31.0	30.6	30.9	30.6	31.0	31.3	32.2	32.5	32.8	33.2	33.4	32.9
75	23.5	23.7	23.4	23.1	22.9	22.5	22.2	21.9	21.6	21.6	21.6	21.9	22.2	22.5	22.9	23.1	23.4	23.7	23.5
80	15.2	15.1	14.7	14.4	14.0	13.7	13.5	13.4	13.1	13.2	13.1	13.4	13.5	13.7	14.0	14.4	14.7	15.1	15.2
85	7.81	7.77	7.37	7.27	6.99	6.92	6.81	6.82	6.63	6.73	6.63	6.82	6.81	6.92	6.99	7.27	7.37	7.77	7.81
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:0.9664A P:200.1W PF:0.9734 Freq:49.99Hz Lamp Flux:30729.1x1 lm																	
NAME: AOK-oH									TYPE:LED						WEIGHT:6.0KG		
SPEC.:AOK-200WoH-5050-60D-PC-ALL									DIM.: $\phi$ 0.4*0.141M						SERIAL No.:1		
MFR.: AOK									SUR.: $\phi$ 0.29M						Shielding Angle:		

Table--2

UNIT:  $\times 10\text{cd}$ 

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798		
5	2843	2831	2829	2835	2837	2831	2826	2822	2794	2822	2826	2831	2837	2835	2829	2831	2843		
10	2891	2894	2892	2899	2889	2889	2874	2874	2846	2874	2874	2889	2889	2899	2892	2894	2891		
15	2912	2922	2921	2900	2892	2900	2890	2896	2859	2896	2890	2900	2892	2900	2921	2922	2912		
20	2747	2739	2732	2725	2718	2704	2720	2705	2690	2705	2720	2704	2718	2725	2732	2739	2747		
25	2347	2316	2308	2293	2290	2268	2271	2251	2261	2251	2271	2268	2290	2293	2308	2316	2347		
30	1729	1707	1700	1656	1651	1624	1631	1602	1620	1602	1631	1624	1651	1656	1700	1707	1729		
35	798	770	766	739	744	715	732	701	733	701	732	715	744	739	766	770	798		
40	443	431	429	432	436	421	425	423	430	423	425	421	436	432	429	431	443		
45	307	301	306	305	314	302	299	299	310	299	299	302	314	305	306	301	307		
50	211	203	204	207	204	199	202	199	202	199	202	199	204	207	204	203	211		
55	122	120	121	118	117	117	118	113	113	113	118	117	117	118	121	120	122		
60	70.7	69.5	68.7	68.1	67.4	65.4	65.5	62.1	61.7	62.1	65.5	65.4	67.4	68.1	68.7	69.5	70.7		
65	46.5	46.1	46.2	44.8	44.6	42.8	42.2	41.5	41.8	41.5	42.2	42.8	44.6	44.8	46.2	46.1	46.5		
70	33.4	33.2	32.8	32.5	32.2	31.3	31.0	30.6	30.9	30.6	31.0	31.3	32.2	32.5	32.8	33.2	33.4		
75	23.7	23.4	23.1	22.9	22.5	22.2	21.9	21.6	21.6	21.6	21.9	22.2	22.5	22.9	23.1	23.4	23.7		
80	15.1	14.7	14.4	14.0	13.7	13.5	13.4	13.1	13.2	13.1	13.4	13.5	13.7	14.0	14.4	14.7	15.1		
85	7.77	7.37	7.27	6.99	6.92	6.81	6.82	6.63	6.73	6.63	6.82	6.81	6.92	6.99	7.27	7.37	7.77		
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		
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: