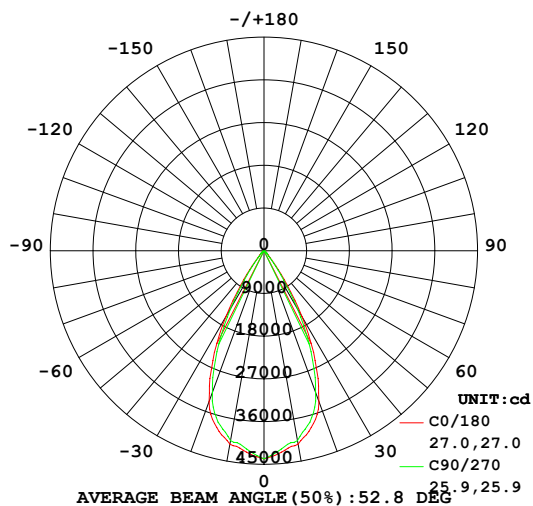


## LUMINAIRE PHOTOMETRIC TEST REPORT

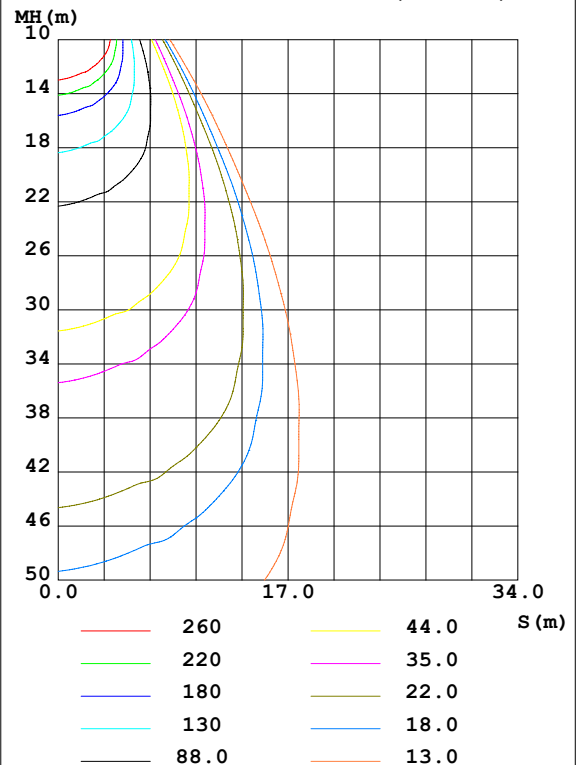
Test:U:219.9V I:1.139A P:237.1W PF:0.9789 Freq:49.99Hz Lamp Flux:30581.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 128.98 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	43849	S/MH (C0/180)	0.81
NOMINAL POWER (W)	240	LOR (%)	100.0	S/MH (C90/270)	0.78
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	30581	$\eta$ UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	30581.1	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	0.80

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: 2017-12-30

$\gamma$  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	4137	3982	4061	3982	4137	3982	4061	3982	0- 10	3942	3942	12.9,12.9
20	3385	3116	3182	3116	3385	3116	3182	3116	10- 20	10278	14220	46.5,46.5
30	1608	1328	1405	1328	1608	1328	1405	1328	20- 30	10382	24602	80.4,80.4
40	254.2	206.4	196.8	206.4	254.2	206.4	196.8	206.4	30- 40	4168	28769	94.1,94.1
50	77.92	77.88	80.87	77.88	77.92	77.88	80.87	77.88	40- 50	908.7	29678	97,97
60	33.68	31.83	32.31	31.83	33.68	31.83	32.31	31.83	50- 60	481.1	30159	98.6,98.6
70	20.34	18.65	18.35	18.65	20.34	18.65	18.35	18.65	60- 70	243.1	30402	99.4,99.4
80	8.741	7.244	6.970	7.244	8.741	7.244	6.970	7.244	70- 80	139.1	30542	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	39.54	30581	100,100
100	0	0	0	0	0	0	0	0	90-100	0	30581	100,100
110	0	0	0	0	0	0	0	0	100-110	0	30581	100,100
120	0	0	0	0	0	0	0	0	110-120	0	30581	100,100
130	0	0	0	0	0	0	0	0	120-130	0	30581	100,100
140	0	0	0	0	0	0	0	0	130-140	0	30581	100,100
150	0	0	0	0	0	0	0	0	140-150	0	30581	100,100
160	0	0	0	0	0	0	0	0	150-160	0	30581	100,100
170	0	0	0	0	0	0	0	0	160-170	0	30581	100,100
180	0	0	0	0	0	0	0	0	170-180	0	30581	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 29311 lm

%lum = 95.8%

%lamp = 95.8%

Conical surface Flux(120deg): 30159 lm

%lum = 98.6%

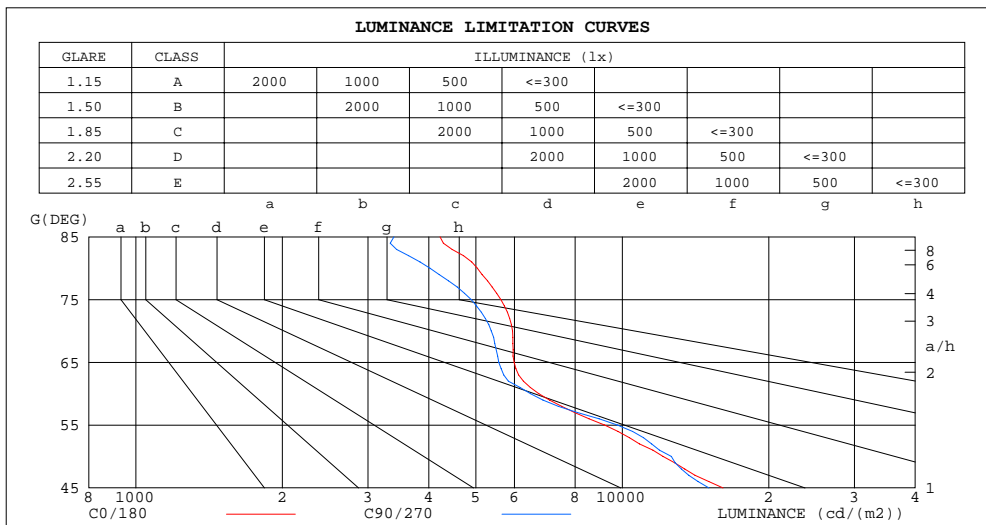
%lamp = 98.6%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-30

$\gamma$  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:219.9V I:1.139A P:237.1W PF:0.9789 Freq:49.99Hz Lamp Flux:30581.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-60D-PC	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	4220	3392
80	5033	4022
75	5628	4892
70	5946	5378
65	5993	5571
60	6734	6474
55	9192	9767
50	12119	12607
45	16112	15068

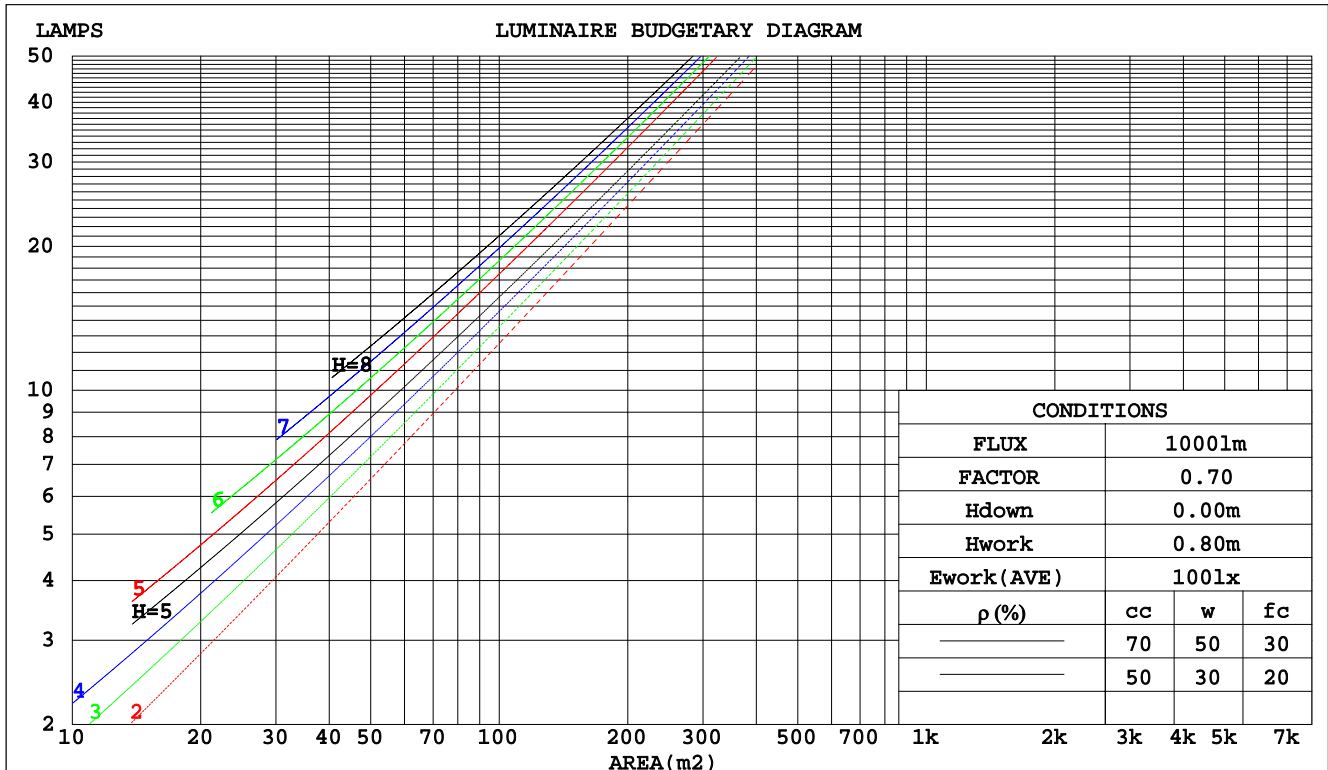
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-30

$\gamma$  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:219.9V I:1.139A P:237.1W PF:0.9789 Freq:49.99Hz Lamp Flux:30581.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	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						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	1.09	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	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.90	.88
3.0	.97	.92	.89	.96	.91	.88	.93	.90	.87	.91	.88	.85	.89	.86	.84	.82
4.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.84	.81	.79	.77
5.0	.86	.81	.77	.85	.80	.76	.83	.79	.76	.82	.78	.75	.80	.77	.74	.73
6.0	.81	.76	.72	.81	.75	.71	.79	.74	.71	.78	.74	.70	.76	.73	.70	.69
7.0	.77	.71	.67	.76	.71	.67	.75	.70	.67	.74	.70	.66	.73	.69	.66	.65
8.0	.73	.67	.64	.72	.67	.63	.71	.67	.63	.70	.66	.63	.69	.66	.63	.61
9.0	.69	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.60	.66	.62	.59	.58
10.0	.66	.61	.57	.66	.60	.57	.65	.60	.57	.64	.60	.57	.63	.59	.56	.55



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-30

$\gamma$  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:219.9V I:1.139A P:237.1W PF:0.9789 Freq:49.99Hz Lamp Flux:30581.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-60D-PC	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	.173	.099	.031	.167	.095	.030	.154	.088	.028	.142	.082	.026	.132	.076	.025		
2.0	.164	.090	.028	.159	.087	.027	.148	.082	.026	.139	.078	.024	.130	.073	.023		
3.0	.156	.083	.025	.151	.081	.024	.142	.077	.023	.134	.073	.022	.126	.070	.022		
4.0	.148	.077	.023	.143	.075	.022	.136	.072	.022	.129	.069	.021	.122	.066	.020		
5.0	.140	.071	.021	.137	.070	.020	.130	.068	.020	.124	.065	.019	.118	.063	.019		
6.0	.134	.067	.019	.130	.066	.019	.125	.064	.019	.119	.062	.018	.114	.060	.018		
7.0	.128	.063	.018	.125	.062	.018	.120	.060	.017	.115	.059	.017	.110	.057	.017		
8.0	.122	.060	.017	.120	.059	.017	.115	.057	.016	.111	.056	.016	.106	.055	.016		
9.0	.117	.057	.016	.115	.056	.016	.111	.055	.015	.107	.053	.015	.103	.052	.015		
10.0	.112	.054	.015	.110	.053	.015	.106	.052	.015	.103	.051	.015	.100	.050	.014		

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	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.142	.114	.090	.122	.098	.078	.084	.068	.055	.048	.040	.032	.016	.013	.011		
4.0	.132	.099	.073	.113	.085	.064	.078	.059	.045	.045	.035	.027	.014	.011	.009		
5.0	.123	.087	.061	.105	.075	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007		
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.040	.028	.019	.013	.009	.006		
7.0	.108	.070	.043	.093	.061	.037	.064	.043	.027	.037	.025	.016	.012	.008	.005		
8.0	.103	.064	.037	.088	.055	.032	.061	.039	.023	.036	.023	.014	.012	.007	.004		
9.0	.098	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004		
10.0	.093	.054	.028	.080	.047	.024	.056	.033	.017	.032	.019	.010	.011	.006	.003		

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-30

$\gamma$  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:219.9V I:1.139A P:237.1W PF:0.9789 Freq:49.99Hz Lamp Flux:30581.1x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:6.0KG		
SPEC.:AOK-240WoH-3030-60D-PC					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	6.2	7.1	6.4	7.3	7.4	5.4	6.3	5.6	6.4	6.6
3H	6.3	7.1	6.5	7.3	7.5	5.4	6.3	5.7	6.5	6.7
4H	6.3	7.1	6.6	7.3	7.5	5.5	6.3	5.8	6.5	6.7
6H	6.3	7.1	6.6	7.3	7.6	5.5	6.2	5.8	6.5	6.7
8H	6.3	7.1	6.7	7.3	7.6	5.5	6.2	5.8	6.4	6.7
12H	6.3	7.0	6.6	7.3	7.5	5.5	6.1	5.8	6.4	6.7
4H 2H	6.1	6.9	6.4	7.1	7.3	5.3	6.0	5.5	6.3	6.5
3H	6.2	6.9	6.5	7.2	7.4	5.4	6.1	5.7	6.4	6.6
4H	6.3	6.9	6.7	7.2	7.5	5.5	6.1	5.9	6.4	6.7
6H	6.4	6.9	6.8	7.3	7.6	5.6	6.1	5.9	6.4	6.8
8H	6.4	6.9	6.8	7.3	7.6	5.6	6.1	6.0	6.4	6.8
12H	6.4	6.9	6.8	7.2	7.6	5.6	6.0	6.0	6.4	6.8
8H 4H	6.3	6.8	6.6	7.1	7.5	5.5	6.0	5.9	6.3	6.7
6H	6.4	6.8	6.8	7.2	7.6	5.6	6.0	6.0	6.4	6.8
8H	6.4	6.8	6.9	7.2	7.6	5.6	6.0	6.0	6.4	6.8
12H	6.4	6.8	6.9	7.2	7.7	5.6	5.9	6.1	6.3	6.8
12H 4H	6.2	6.7	6.6	7.0	7.4	5.4	5.9	5.8	6.3	6.7
6H	6.3	6.7	6.8	7.1	7.6	5.5	5.9	6.0	6.3	6.8
8H	6.4	6.7	6.9	7.2	7.6	5.6	5.9	6.0	6.3	6.8
Variations with the observer position at spacings:										
S = 1.0H	+ 3.1 / - 2.6					+ 2.7 / - 2.2				
1.5H	+ 4.9 / - 2.0					+ 4.3 / - 1.7				
2.0H	+ 1.7 / - 1.2					+ 1.6 / - 1.5				

CIE Pub.117, 30581 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:2017-12-30

$\gamma$  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:219.9V I:1.139A P:237.1W PF:0.9789 Freq:49.99Hz Lamp Flux:30581.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

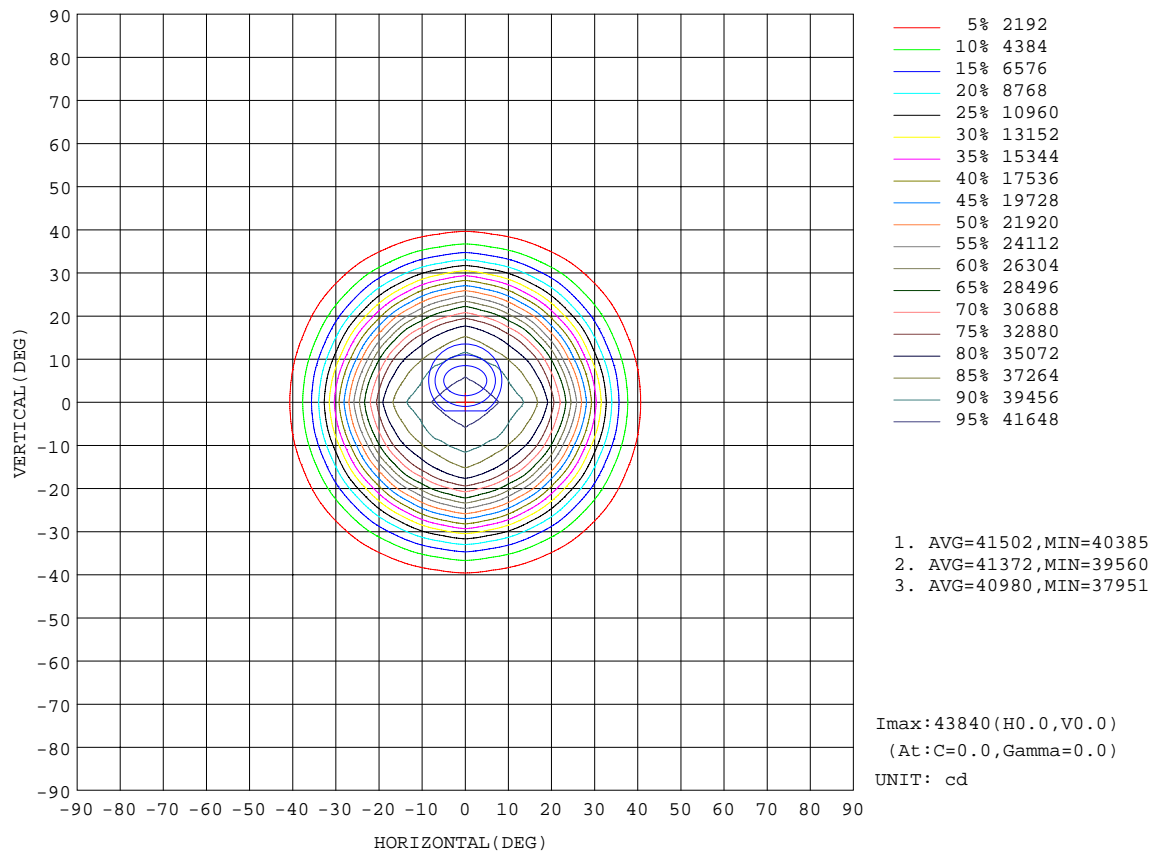
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	87	81	78	87	81	78	74
0.80	95	89	86	95	89	86	93	88	85	82
1.00	99	94	90	99	93	90	97	93	90	86
1.25	103	98	95	102	98	94	100	96	94	89
1.50	106	101	98	105	101	98	103	99	96	92
2.00	109	104	101	107	103	101	104	101	99	94
2.50	110	106	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:2017-12-30

$\gamma$  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:219.9V I:1.139A P:237.1W PF:0.9789 Freq:49.99Hz Lamp Flux:30581.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



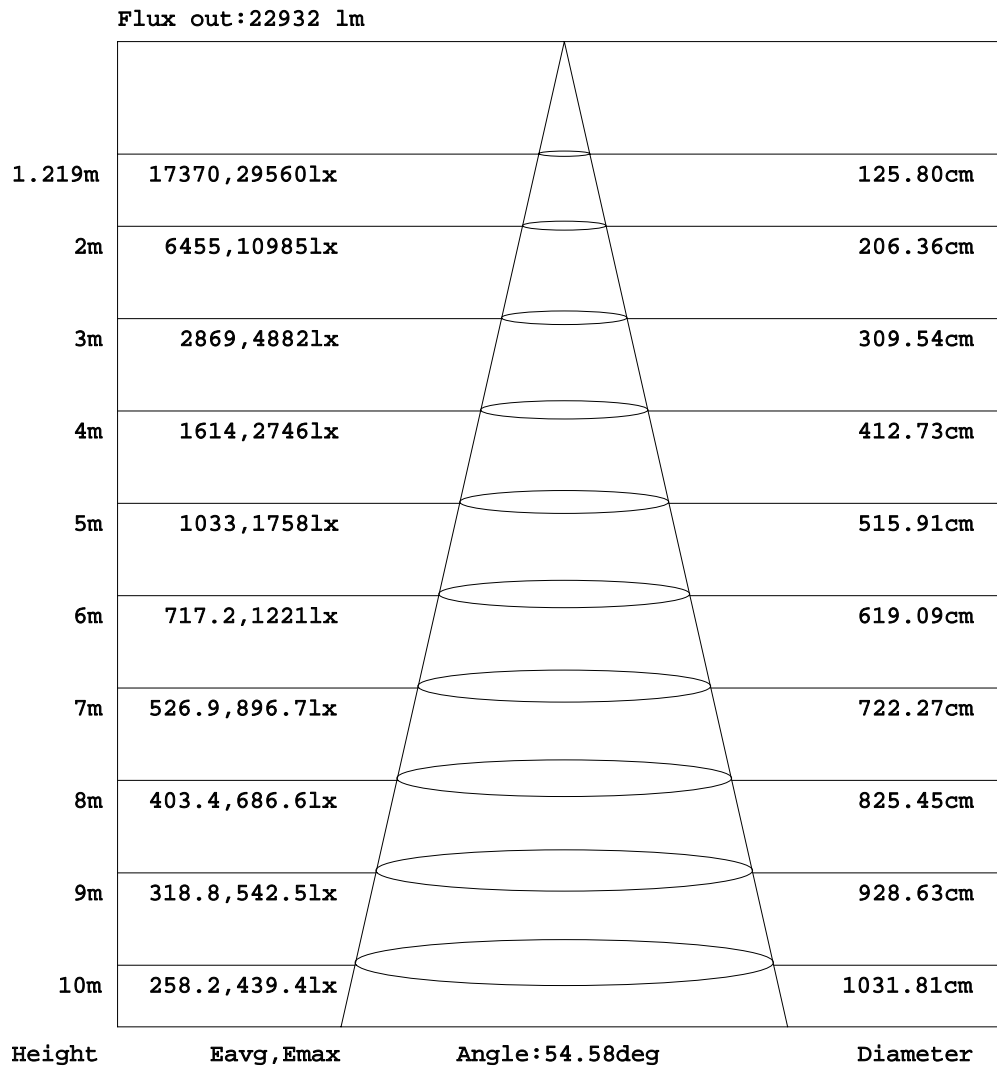
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-30

$\gamma$  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:219.9V I:1.139A P:237.1W PF:0.9789 Freq:49.99Hz Lamp Flux:30581.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-60D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



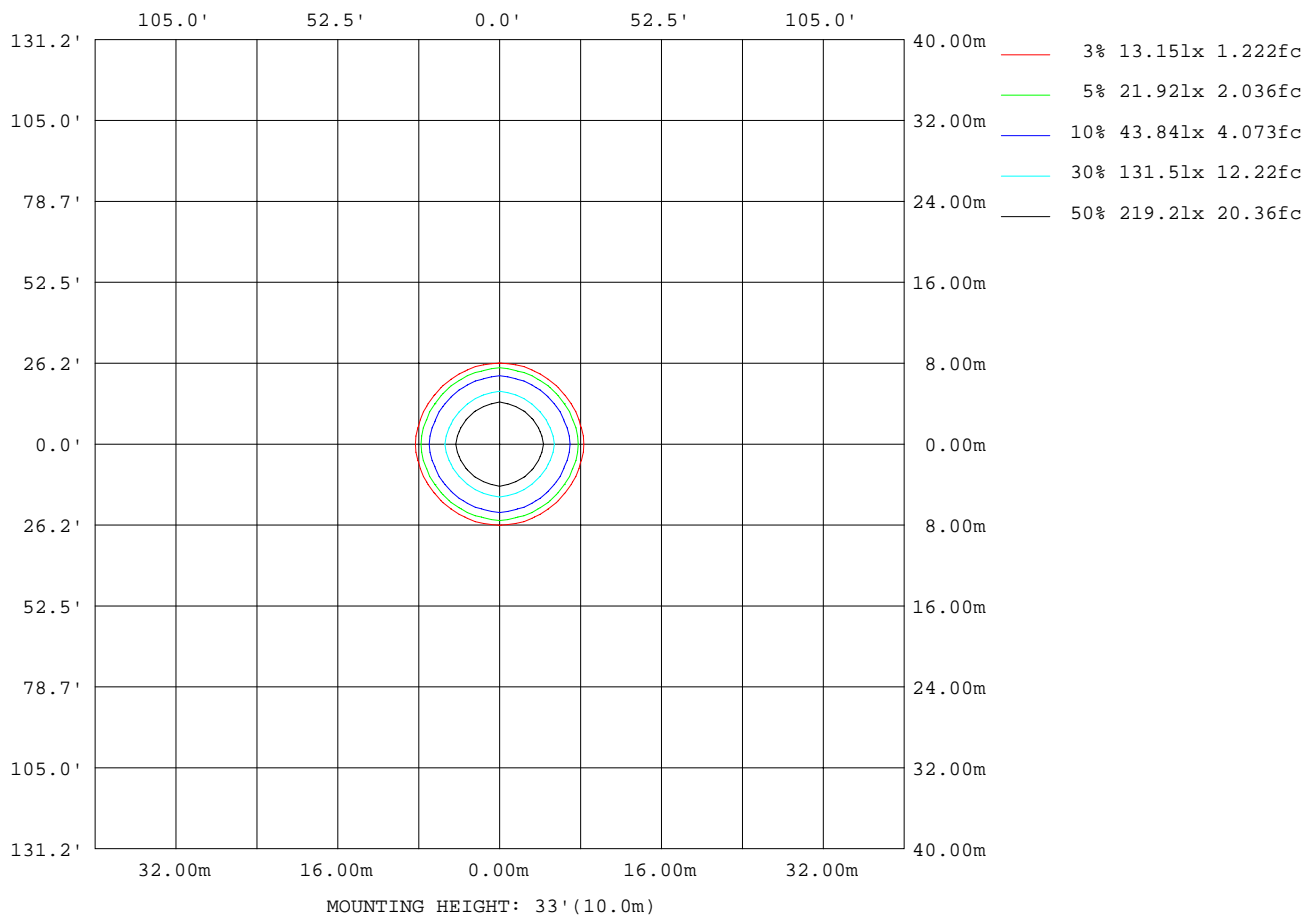
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-30

$\gamma$  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:219.9V I:1.139A P:237.1W PF:0.9789 Freq:49.99Hz Lamp Flux:30581.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-60D-PC	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:2017-12-30

$\gamma$  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:219.9V I:1.139A P:237.1W PF:0.9789 Freq:49.99Hz Lamp Flux:30581.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-60D-PC	DIM.: $\phi$ 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.29M	Shielding Angle:

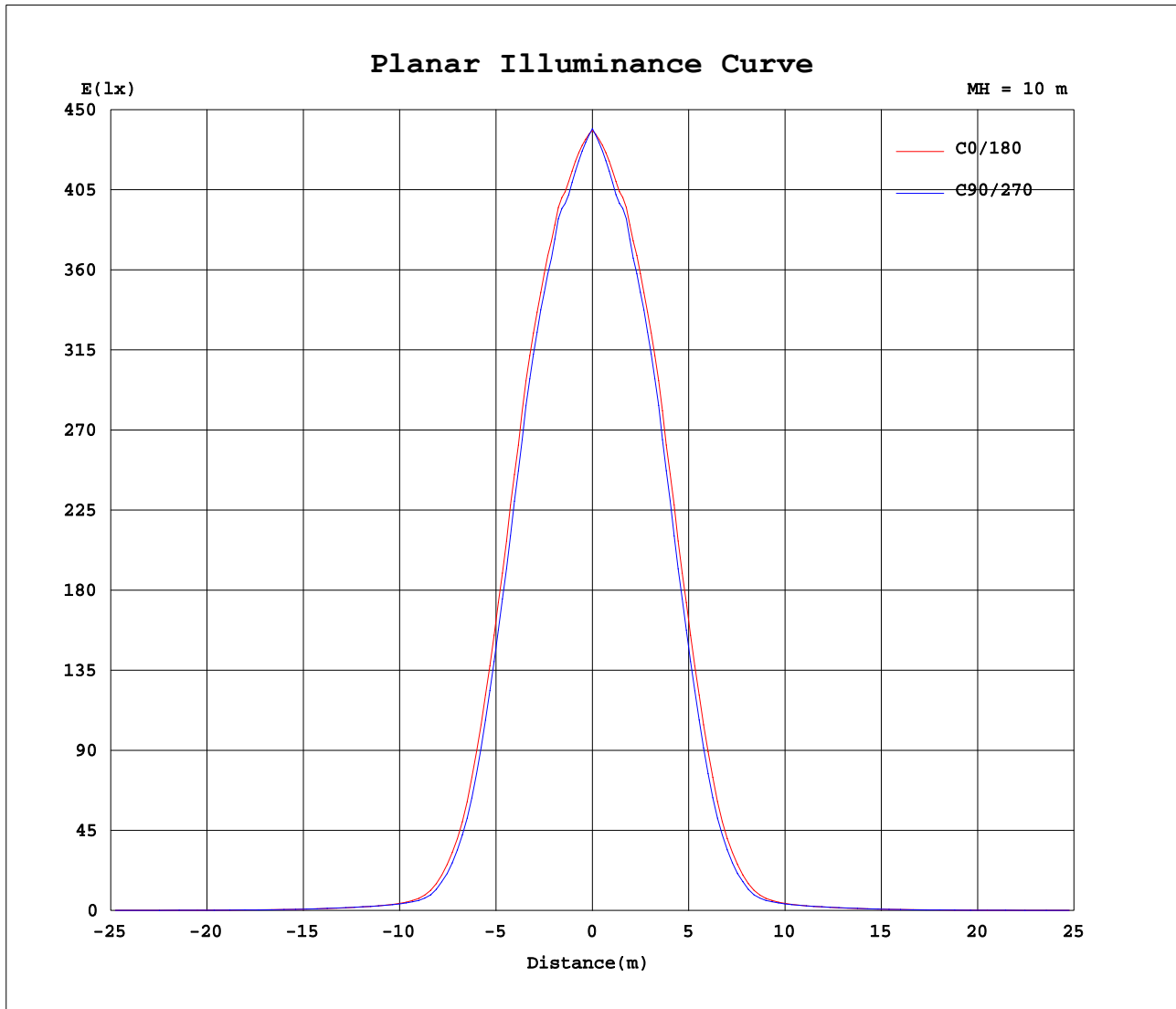
AvgL	cd/m2
L_0~180 (65) av	5994
L_0~180 (75) av	5630
L_0~180 (85) av	4221
L_90~270 (65) av	5559
L_90~270 (75) av	4882
L_90~270 (85) av	3385
L_45 (65) av	5614
L_45 (75) av	4973
L_45 (85) av	3501

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-30

$\gamma$  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: 2017-12-30

$\gamma$  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:219.9V I:1.139A P:237.1W PF:0.9789 Freq:49.99Hz Lamp Flux:30581.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-60D-PC	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) $\gamma$ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385
5	4260	4232	4208	4189	4175	4168	4168	4172	4180	4194	4180	4172	4168	4168	4175	4189	4208	4232	4260
10	4137	4084	4029	3991	3977	3986	4002	4017	4028	4061	4028	4017	4002	3986	3977	3991	4029	4084	4137
15	3855	3789	3733	3699	3653	3633	3649	3662	3691	3738	3691	3662	3649	3633	3653	3699	3733	3789	3855
20	3385	3292	3236	3191	3129	3104	3061	3090	3113	3182	3113	3090	3061	3104	3129	3191	3236	3292	3385
25	2548	2454	2357	2309	2249	2245	2214	2244	2274	2349	2274	2244	2214	2245	2249	2309	2357	2454	2548
30	1608	1529	1435	1393	1335	1321	1306	1327	1337	1405	1337	1327	1306	1321	1335	1393	1435	1529	1608
35	736	720	663	644	609	614	587	593	583	619	583	593	587	614	609	644	663	720	736
40	254	247	227	222	209	204	194	193	189	197	189	193	194	204	209	222	227	247	254
45	114	114	110	111	107	106	104	105	105	106	105	105	104	106	107	111	110	114	114
50	77.9	78.3	77.6	78.0	77.6	78.2	77.6	79.2	79.5	80.9	79.5	79.2	77.6	78.2	77.6	78.0	77.6	78.3	77.9
55	52.7	52.9	52.5	53.9	54.2	55.8	53.2	54.4	54.1	55.9	54.1	54.4	53.2	55.8	54.2	53.9	52.5	52.9	52.7
60	33.7	33.6	32.8	32.7	31.9	31.8	31.1	31.9	31.7	32.3	31.7	31.9	31.1	31.8	31.9	32.7	32.8	33.6	33.7
65	25.3	25.2	25.0	24.7	24.1	23.5	23.4	23.5	23.6	23.5	23.6	23.5	23.4	23.5	24.1	24.7	25.0	25.2	25.3
70	20.3	20.2	19.9	19.5	18.9	18.4	18.2	18.2	18.3	18.4	18.3	18.2	18.2	18.4	18.9	19.5	19.9	20.2	20.3
75	14.6	14.5	14.0	13.7	13.1	12.7	12.3	12.3	12.3	12.6	12.3	12.3	12.3	12.7	13.1	13.7	14.0	14.5	14.6
80	8.74	8.66	8.22	7.95	7.40	7.09	6.70	6.72	6.71	6.97	6.71	6.72	6.70	7.09	7.40	7.95	8.22	8.66	8.74
85	3.68	3.62	3.39	3.29	3.10	3.01	2.87	2.88	2.84	2.95	2.84	2.88	2.87	3.01	3.10	3.29	3.39	3.62	3.68
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: 2017-12-30

$\gamma$  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:219.9V I:1.139A P:237.1W PF:0.9789 Freq:49.99Hz Lamp Flux:30581.1x1 lm																	
NAME: AOK-oH									TYPE:LED						WEIGHT:6.0KG		
SPEC.:AOK-240WoH-3030-60D-PC									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) $\gamma$ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385	4385		
5	4232	4208	4189	4175	4168	4168	4172	4180	4194	4180	4172	4168	4168	4175	4189	4208	4232		
10	4084	4029	3991	3977	3986	4002	4017	4028	4061	4028	4017	4002	3986	3977	3991	4029	4084		
15	3789	3733	3699	3653	3633	3649	3662	3691	3738	3691	3662	3649	3633	3653	3699	3733	3789		
20	3292	3236	3191	3129	3104	3061	3090	3113	3182	3113	3090	3061	3104	3129	3191	3236	3292		
25	2454	2357	2309	2249	2245	2214	2244	2274	2349	2274	2244	2214	2245	2249	2309	2357	2454		
30	1529	1435	1393	1335	1321	1306	1327	1337	1405	1337	1327	1306	1321	1335	1393	1435	1529		
35	720	663	644	609	614	587	593	583	619	583	593	587	614	609	644	663	720		
40	247	227	222	209	204	194	193	189	197	189	193	194	204	209	222	227	247		
45	114	110	111	107	106	104	105	105	106	105	105	104	106	107	111	110	114		
50	78.3	77.6	78.0	77.6	78.2	77.6	79.2	79.5	80.9	79.5	79.2	77.6	78.2	77.6	78.0	77.6	78.3		
55	52.9	52.5	53.9	54.2	55.8	53.2	54.4	54.1	55.9	54.1	54.4	53.2	55.8	54.2	53.9	52.5	52.9		
60	33.6	32.8	32.7	31.9	31.8	31.1	31.9	31.7	32.3	31.7	31.9	31.1	31.8	31.9	32.7	32.8	33.6		
65	25.2	25.0	24.7	24.1	23.5	23.4	23.5	23.6	23.5	23.6	23.5	23.4	23.5	24.1	24.7	25.0	25.2		
70	20.2	19.9	19.5	18.9	18.4	18.2	18.2	18.3	18.4	18.3	18.2	18.2	18.4	18.9	19.5	19.9	20.2		
75	14.5	14.0	13.7	13.1	12.7	12.3	12.3	12.3	12.6	12.3	12.3	12.3	12.7	13.1	13.7	14.0	14.5		
80	8.66	8.22	7.95	7.40	7.09	6.70	6.72	6.71	6.97	6.71	6.72	6.70	7.09	7.40	7.95	8.22	8.66		
85	3.62	3.39	3.29	3.10	3.01	2.87	2.88	2.84	2.95	2.84	2.88	2.87	3.01	3.10	3.29	3.39	3.62		
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:2017-12-30

$\gamma$  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: